



EMS MMS

SOLUTIONS DE MANUTENTION & PIÈCES DÉTACHÉES

HYDRAULIC PARTS & ACCESSORIES

HYDRAULIQUE

PIÈCES & ACCESSOIRES

CATALOGUE TECHNIQUE EMS / MMS

PHOTOS NON CONTRACTUELLES

SOMMAIRE - HYDRAULIQUE

01	BON A SAVOIR	-4
02	FLEXIBLES HYDRAULIQUES ET ACCESSOIRES	4
03	RACCORDS A SERTIR HYDRAULIQUES	30
04	OUTILS DE SERTISSAGE	104
05	ADAPTATEURS	116
06	RACCORDS A BAGUE COUPANTE	200
07	COUPLEURS RAPIDES	228
08	ENROULEURS	240
09	ACCESSOIRES	256
10	APPAREILS DE MESURE & DE TEST HYDRAULIQUES	262
11	JOINTS HYDRAULIQUES	274
12	VERINS HYDRAULIQUES	288
13	POMPES HYDRAULIQUES	292
14	ACCOUPEMENTS A ENGRENAGE	298

SOMMAIRE - HYDRAULIQUE

15	GROUPES HYDRAULIQUES	306
16	GENERATRICES HYDRAULIQUES	320
17	UNITES DE DIRECTION	324
18	MOTEURS HYDRAULIQUES	328
19	DISTRIBUTEURS HYDRAULIQUES	332
20	DISTRIBUTEURS AUXILIAIRES & KITS DE POIGNEES	336
21	DISTRIBUTEURS DE TRANSMISSION	354
22	BOBINES D'ELECTROVANNES	360
23	ELECTROVANNES A CARTOUCHE	364
24	VANNES HYDRAULIQUES ET COMPOSANTS	368
25	FILTRES HYDRAULIQUES	388
26	ACCUMULATEURS	392
27	BOUCHONS DE PROTECTION	398
28	FOURNITURES D'ATELIER & D'ENTREPOT ET EPI	420

02.

HYDRAULIC HOSES AND ACCESSORIES

HYDRAULIC HOSES AND ACCESSORIES

HYDRAULIC HOSE TYPE EN 853 1SN SAE 100 R1AT



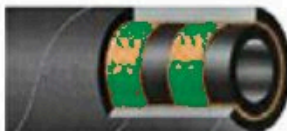
Composition:

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: one braid of steel wire
- Cover: synthetic rubber resistant to oil, abrasion and weather

Working temperature: from -40 °C to +100 °C

Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	KG	REF
1SN-DN6	1/4"	6.4	15.9	225	3262.5	900	13050	100	0.226	MMS-HY-00001
1SN-DN8	5/16"	8.0	17.5	215	3117.5	850	12325	115	0.265	MMS-HY-00002
1SN-DN10	3/8"	9.5	19.8	180	2610	720	10440	130	0.335	MMS-HY-00003
1SN-DN12	1/2"	12.7	23	160	2320	640	9280	180	0.415	MMS-HY-00004
1SN-DN16	5/8"	16.2	23.3	130	1885	520	7540	200	0.520	MMS-HY-00005
1SN-DN19	3/4"	19.2	27.4	105	1522.5	420	6090	240	0.650	MMS-HY-00006
1SN-DN25	1"	25.3	35	88	1276	350	5075	300	0.910	MMS-HY-00007
1SN-DN31	1 1/4"	32.2	42.8	63	913.5	250	3625	420	1.300	MMS-HY-00008
1SN-DN38	1 1/2"	38.2	49.2	50	725	200	2900	500	1.700	MMS-HY-00009
1SN-DN50	2"	51.2	63	40	580	160	2320	630	2.000	MMS-HY-00010

HYDRAULIC HOSE TYPE EN 853 2SN SAE 100 R2AT (PER METER)



Composition:

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: two braid of steel wire
- Cover: synthetic rubber resistant to oil, abrasion and weather

Working temperature: from -40 °C to +100 °C

Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	KG	REF
2SN-DN6	1/4"	6.3	14.7	400	5800	1600	23200	100	0.360	MMS-HY-00015
2SN-DN8	5/16"	8.2	16.3	350	5075	1400	20300	115	0.450	MMS-HY-00016
2SN-DN10	3/8"	9.8	18.7	330	4785	1320	19140	130	0.540	MMS-HY-00017
2SN-DN12	1/2"	12.9	21.8	275	3987.5	1100	15950	180	0.650	MMS-HY-00018
2SN-DN16	5/8"	16.2	25	250	3625	1000	14500	200	0.800	MMS-HY-00019
2SN-DN19	3/4"	19.2	29.2	215	3117.5	850	12325	240	0.940	MMS-HY-00020
2SN-DN25	1"	25.3	36.7	165	2392.5	650	9425	300	1.350	MMS-HY-00021
2SN-DN31	1 1/4"	32.2	46.5	125	1812.5	500	7250	420	2.15	MMS-HY-00022
2SN-DN38	1 1/2"	38.2	52.8	90	1305	360	5220	500	2.65	MMS-HY-00023
2SN-DN50	2"	51	68.6	80	1160	320	4640	630	3.42	MMS-HY-00024

HYDRAULIC HOSE TYPE EN 853 2SN SAE 100 R2AT (PER 50 METER)

Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	KG	REF	
2SN-DN6-RL50	1/4"	6.3	14.7	400	5800	1600	23200	100	0.360	MMS-HY-00011	
2SN-DN8-RL50	5/16"	8.2	16.3	350	5075	1400	20300	115	0.450	MMS-HY-00012	
2SN-DN10-RL50	3/8"	9.8	18.7	330	4785	1320	19140	130	0.540	MMS-HY-00013	
2SN-DN12-RL50	1/2"	12.9	21.8	275	3987.5	1100	15950	180	0.650	MMS-HY-00014	

HYDRAULIC HOSE GOLD EN 853 2SN R2AT - ROCKCOVER



Composition:

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: two braids of steel wire
- Cover: synthetic rubber high resistant to oil, abrasion resistant and weather

Working temperature: from -40 °C to +100 °C

											
Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	KG	REF	
2SN-DN6-RC	1/4"	6.4	15	400	5800	1600	23200	100	0.386	MMS-HY-00025	
2SN-DN8-RC	5/16"	8	16.6	350	5075	1400	20300	115	0.427	MMS-HY-00026	
2SN-DN10-RC	3/8"	9.5	19	330	4785	1320	19140	130	0.595	MMS-HY-00027	
2SN-DN12-RC	1/2"	12.7	21.5	275	3987.5	1100	15950	180	0.651	MMS-HY-00028	
2SN-DN16-RC	5/8"	16.6	25.4	250	3625	1000	14500	200	0.776	MMS-HY-00029	
2SN-DN19-RC	3/4"	19	29.3	215	3117.5	850	12325	240	0.956	MMS-HY-00030	
2SN-DN25-RC	1"	25.4	38.1	165	2392.5	650	9425	300	1.38	MMS-HY-00031	
2SN-DN31-RC	1 1/4"	31.8	48.3	125	1812.5	500	7250	420	2.024	MMS-HY-00032	
2SN-DN38-RC	1 1/2"	38.1	54.6	90	1305	360	5220	500	2.256	MMS-HY-00033	
2SN-DN50-RC	2"	50.8	66.7	80	1160	320	4640	630	2.765	MMS-HY-00034	

HYDRAULIC HOSE: 1SC EN 857



Composition:

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: one braid of steel wire
- Cover: synthetic rubber resistant to oil, abrasion and weather

Working temperature: from -40 °C to +100 °C

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Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	KG	REF
1SC-DN6	1/4"	6.4	13	275	4000	1100	16000	45	0.17	MMS-HY-00035
1SC-DN8	5/16"	8.0	14	255	3700	1020	14800	55	0.22	MMS-HY-00036
1SC-DN10	3/8"	9.5	16.4	215	3100	860	12500	60	0.26	MMS-HY-00037
1SC-DN12	1/2"	12.7	19.5	170	2470	680	9900	70	0.36	MMS-HY-00038
1SC-DN16	5/8"	16.2	22.6	150	2180	600	8700	90	0.45	MMS-HY-00039
1SC-DN19	3/4"	19.2	26.2	125	1820	500	7250	100	0.53	MMS-HY-00040
1SC-DN25	1"	25.3	34	100	1450	400	5800	160	0.77	MMS-HY-00041

HYDRAULIC HOSES AND ACCESSORIES

HYDRAULIC HOSE: EN 857 2SC (PER METER)



Composition:

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: two braids of steel wire
- Cover: synthetic rubber resistant to oil, abrasion resistant and weather

Operating temperature: -40 °C to +100 °C

Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	KG	REF
2SC-DN6	1/4"	6.5	13.9	400	5800	1600	23200	75	0.19	MMS-HY-00048
2SC-DN8	5/16"	8.1	15.4	350	5075	1400	20300	85	0.22	MMS-HY-00049
2SC-DN10	3/8"	9.7	17.7	330	4785	1320	19140	90	0.28	MMS-HY-00050
2SC-DN12	1/2"	12.9	21	275	3988	1100	15950	130	0.36	MMS-HY-00051
2SC-DN16	5/8"	16.1	24.3	250	3625	1000	14500	170	0.41	MMS-HY-00052

HYDRAULIC HOSE: EN 857 2SC (PER 50 METER)

<div><div> Cardboard coil</div></div>										
Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	KG	REF
2SC-DN6-RL50	1/4"	6.5	13.9	400	5800	1600	23200	75	0.19	MMS-HY-00053
2SC-DN8-RL50	5/16"	8.1	15.4	350	5075	1400	20300	85	0.22	MMS-HY-00054
2SC-DN10-RL50	3/8"	9.7	17.7	330	4785	1320	19140	90	0.28	MMS-HY-00055
2SC-DN12-RL50	1/2"	12.9	21	275	3988	1100	15950	130	0.36	MMS-HY-00056

HYDRAULIC HOSE GOLD EN 857 2SC - ROCKCOVER



Composition:

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: two braids of steel wire
- Cover: synthetic rubber high resistant to oil, abrasion resistant and weather

Working temperature: from -40 °C to +100 °C

Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	KG	REF
2SC-DN6-RC	1/4"	6.6	13	400	5800	1600	23200	75	0.25	MMS-HY-00042
2SC-DN10-RC	3/8"	9.9	16.6	330	4785	1320	19140	90	0.37	MMS-HY-00043
2SC-DN12-RC	1/2"	13	20	275	3990	1100	15950	130	0.45	MMS-HY-00044
2SC-DN16-RC	5/8"	16.6	23.9	250	3625	1000	14500	170	0.61	MMS-HY-00045
2SC-DN19-RC	3/4"	19.5	27.6	215	3120	860	12470	200	0.76	MMS-HY-00046
2SC-DN25-RC	1"	26	35.6	165	2395	660	9570	250	1.15	MMS-HY-00047

HYDRAULIC HOSE GOLD EN 857 2SNK

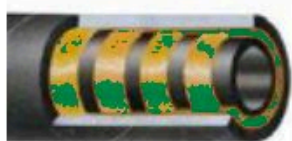

Composition:

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: two braids of steel wire
- Cover: synthetic rubber resistant to oil, abrasion resistant and weather

Working temperature: from -40 °C to +100 °C

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Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	KG	REF
2SNK-DN6	1/4"	6.6	13.4	450	6525	1800	26100	45	0.27	MMS-HY-00057
2SNK-DN8	5/16"	8.3	15	420	6090	1680	24360	60	0.31	MMS-HY-00058
2SNK-DN10	3/8"	9.9	17	385	5585	1540	22340	70	0.39	MMS-HY-00059
2SNK-DN12	1/2"	13	20.7	345	5000	1380	20000	90	0.52	MMS-HY-00060
2SNK-DN16	5/8"	16.4	23.6	290	4205	1160	16820	130	0.651	MMS-HY-00061
2SNK-DN19	3/4"	19.5	27.7	280	4060	1120	16240	160	0.52	MMS-HY-00062
2SNK-DN25	1"	26	35.6	200	2900	800	11600	210	1.15	MMS-HY-00063

HYDRAULIC HOSE: EN 856 4SP SAE 100 R9R - R10


Composition:

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: four braids of steel wire
- Cover: synthetic rubber resistant to oil, abrasion resistant and weather

Working temperature: -40 °C to +100 °C

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Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
4SP-DN10	3/8"	10	21.3	445	6452.5	1780	25810	180	0.75	MMS-HY-00064
4SP-DN12	1/2"	13	23.8	415	6017.5	1660	24070	230	0.9	MMS-HY-00065
4SP-DN16	5/8"	16	27.8	350	5075	1400	20300	250	1.1	MMS-HY-00066
4SP-DN19	3/4"	19	31.5	350	5075	1400	20300	300	1.5	MMS-HY-00067
4SP-DN25	1"	25.5	38.5	280	4060	1120	16240	340	2	MMS-HY-00068
4SP-DN31	1 1/4"	32.2	49.5	210	3045	840	12180	460	3	MMS-HY-00069

HYDRAULIC HOSES AND ACCESSORIES

HYDRAULIC HOSE GOLD EN 856 4SP - ROCKCOVER



Composition:

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: four braids of steel wire
- Cover: synthetic rubber high resistant to oil, abrasion resistant and weather

Working temperature: -40 °C to +100 °C



Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
4SP-DN10-RC	3/8"	9.9	21.1	445	6455	1780	25810	180	0.7	MMS-HY-00070
4SP-DN12-RC	1/2"	13	24.2	425	6465	1700	24070	230	0.85	MMS-HY-00071
4SP-DN16-RC	5/8"	16.4	27.9	350	5075	1400	20300	250	1.11	MMS-HY-00072
4SP-DN19-RC	3/4"	19.5	32	350	5075	1400	20300	300	1.41	MMS-HY-00073
4SP-DN25-RC	1"	26	38.9	320	4640	1280	18500	340	1.86	MMS-HY-00074

HYDRAULIC HOSE: EN 856 4SH



Composition:

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: four braids of steel wire
- Cover: synthetic rubber resistant to oil, abrasion resistant and weather

Working temperature: -40 °C to +100 °C



Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
4SH-DN25	1"	25.2	38.5	380	5510	1520	22040	340	2.5	MMS-HY-00075
4SH-DN31	1 1/4"	32.2	45.2	325	4712.5	1300	18850	460	3	MMS-HY-00076
4SH-DN38	1 1/2"	38.5	53.5	290	4206	1160	16824	560	3.6	MMS-HY-00077
4SH-DN50	2"	51.2	68.1	250	3625	1000	14504	700	5	MMS-HY-00078

HYDRAULIC HOSE GOLD EN 856 4SH - ROCKCOVER



Composition:

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: four braids of steel wire
- Cover: synthetic rubber high resistant to oil, abrasion resistant and weather

Working temperature: -40 °C to +100 °C



Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
4SH-DN19-RC	3/4"	19	32.2	420	6090	1680	24360	280	1.556	MMS-HY-00079
4SH-DN25-RC	1"	25.4	38.7	380	5510	1520	22040	340	2.087	MMS-HY-00080
4SH-DN31-RC	1 1/4"	32	45.5	350	5075	1400	20300	460	2.57	MMS-HY-00081
4SH-DN38-RC	1 1/2"	38	53.5	290	4205	1160	16820	560	3.439	MMS-HY-00082
4SH-DN50-RC	2"	50.8	68.1	250	3625	1000	14500	700	4.903	MMS-HY-00083

HYDRAULIC HOSE SAE 100 R15**Composition:**

- Inner tube: synthetic rubber resistant to hydraulic oil
- Reinforcement: four till six braids of steel wire
- Cover: synthetic rubber resistant to oil, abrasion resistant and weather

Working temperature: -40 °C to +100 °C



Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
R15-DN31	1 1/4"	32.2	51.5	420	6090	1680	24360	445	4.200	MMS-HY-00084
R15-DN38	1 1/2"	38.5	56.5	420	6090	1680	24360	530	5.600	MMS-HY-00085
R15-DN50	2"	51.1	71.5	420	6090	1680	24360	600	6.900	MMS-HY-00086

HYDRAULIC HOSE SAE 100 R7**Composition:**

- Inner tube: thermoplastic elastomer
- Reinforcement: one or two braids of synthetic fiber
- Cover: black polyurethane, micro-perforated

Working temperature: from -40 °C to +100 °C limited to +70 °C for air and aqueous solutions



Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
R7-DN5	3/16"	5	9.6	210	3000	840	12000	25	0.060	MMS-HY-00087
R7-DN6	1/4"	6.5	12.2	210	3000	840	12000	35	0.095	MMS-HY-00088
R7-DN8	5/16"	8.1	14.3	190	2700	760	10800	45	0.130	MMS-HY-00089
R7-DN10	3/8"	9.7	16	160	2300	640	9200	55	0.145	MMS-HY-00090
R7-DN12	1/2"	13	20.3	140	2000	560	8000	75	0.215	MMS-HY-00091
R7-DN19	3/4"	19	27.2	69	1250	345	5000	127	0.338	MMS-HY-00092

DOUBLE HYDRAULIC HOSES SAE 100 R7**Composition:**

- Inner tube: thermoplastic elastomer
- Reinforcement: one or two braids of synthetic fiber
- Cover: black polyurethane, micro-perforated

Working temperature: from -40 °C to +100 °C limited to +70 °C for air and aqueous solutions



Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
twin R7-DN5	3/16"	4.8	10.9	210	3000	827	12000	19	0.125	MMS-HY-00093
twin R7-DN6	1/4"	6.5	12.2	210	3000	840	12000	35	0.200	MMS-HY-00094
twin R7-DN8	5/16"	8.1	14.3	175	2500	700	10000	45	0.260	MMS-HY-00095
twin R7-DN10	3/8"	9.7	16	160	2300	640	9200	55	0.290	MMS-HY-00096
twin R7-DN12	1/2"	13	20.3	140	2000	560	8000	75	0.440	MMS-HY-00097
twin R7-DN19	3/4"	19	27.2	69	1250	345	5000	127	0.681	MMS-HY-00098

HYDRAULIC HOSES AND ACCESSORIES

HYDRAULIC HOSE SAE 100 R8



Composition:

- Inner tube: thermoplastic elastomer
- Reinforcement: one or two braids of textile fiber
- Cover: black polyurethane, micro-perforated

Working temperature: from -40 °C to +100 °C limited to +70 °C for air and aqueous solutions

										
Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
R8-DN5	3/16"	4.8	10.9	345	5000	1380	20000	38	0.052	MMS-HY-00099
R8-DN6	1/4"	6.5	11.5	350	5000	1400	20000	50	0.085	MMS-HY-00100
R8-DN8	5/16"	8.1	13.4	300	4300	1200	17200	55	0.105	MMS-HY-00101
R8-DN10	3/8"	9.7	15.5	280	4000	1120	16000	60	0.135	MMS-HY-00102
R8-DN12	1/2"	13	19.9	245	3500	980	14000	80	0.200	MMS-HY-00103
R8-DN16	5/8"	16.3	23.4	200	2900	800	11600	125	0.250	MMS-HY-00104
R8-DN19	3/4"	19.5	26.9	165	2300	660	9200	150	0.320	MMS-HY-00105
R8-DN25	1"	25.9	34.2	140	2000	560	8000	200	0.440	MMS-HY-00106

DOUBLE HYDRAULIC HOSES SAE 100 R8



Composition:

- Inner tube: thermoplastic elastomer
- Reinforcement: one or two braids of textile fiber
- Cover: black polyurethane, micro-perforated

Working temperature: from -40 °C to +100 °C limited to +70 °C for air and aqueous solutions

										
Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
twin R8-DN6	1/4"	6.5	11.5	350	5000	1400	20000	50	0.170	MMS-HY-00107
twin R8-DN8	5/16"	8.1	13.4	300	4300	1200	17200	55	0.210	MMS-HY-00108
twin R8-DN10	3/8"	9.7	15.5	280	4000	1120	16000	60	0.270	MMS-HY-00109
twin R8-DN12	1/2"	13	19.9	245	3500	980	14000	80	0.400	MMS-HY-00110

HYDRAULIC HOSE WITH 1 BRAID OF STEEL WIRE



Composition:

- Inner tube: thermoplastic elastomer
- Reinforcement: one braid of steel wire
- Cover: black polyurethane

Working temperature: from -40 °C to +100 °C limited to +70 °C for air and aqueous solutions

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Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
1SB-DN6	1/4"	6.50	11.70	310	4500	1240	18000	40	0.165	MMS-HY-00116
1SB-DN8	5/16"	8.10	13.20	250	3600	1000	14400	55	0.190	MMS-HY-00117
1SB-DN10	3/8"	9.80	15.50	225	3200	900	12800	65	0.230	MMS-HY-00118
1SB-DN12	1/2"	13.00	18.80	190	2700	760	10800	85	0.300	MMS-HY-00119
1SB-DN16	5/8"	16.30	22.00	140	2000	560	8000	115	0.335	MMS-HY-00120
1SB-DN19	3/4"	19.50	25.80	115	1600	460	6400	145	0.460	MMS-HY-00121
1SB-DN25	1"	25.80	33.40	95	1300	380	5200	180	0.640	MMS-HY-00122

HYDRAULIC HOSE: SAE 100 R4



Composition:

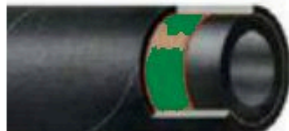
- Inner tube: nitrile rubber resistant to hydraulic oil
- Reinforcement: two braids of synthetic fiber and one steel wire helix
- Cover: synthetic rubber resistant to oil, abrasion resistant and weather

Working temperature: from -40 °C to +100 °C

Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	Bar	mm	kg/m	REF
R4-DN19	3/4"	19	32	21	305	84	1218	-0.8	127	0.725	MMS-HY-00111
R4-DN25	1"	25.4	37.4	17	247	68	986	-0.8	152	0.847	MMS-HY-00112
R4-DN31	1 1/4"	31.8	45	14	203	56	812	-0.8	203	1.118	MMS-HY-00113
R4-DN38	1 1/2"	38.1	52	10	145	40	580	-0.8	254	1.454	MMS-HY-00114
R4-DN50	2"	50.8	64	7	102	28	406	-0.8	305	1.837	MMS-HY-00115

HYDRAULIC HOSES AND ACCESSORIES

HYDRAULIC HOSE EN 854 2TE



Composition:

- Inner tube: nitrile rubber resistant to hydraulic oil
- Reinforcement: one textile braid
- Cover: synthetic rubber resistant to oil, abrasion resistant and weather

Working temperature: from -40 °C to +100 °C



Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
2TE-DN6	1/4"	6.4	13.4	75	1087.5	300	4350	40	0.145	MMS-HY-00123
2TE-DN8	5/16"	8	14.9	68	986	272	3944	50	0.165	MMS-HY-00124
2TE-DN10	3/8"	9.5	16.5	63	913.5	252	3654	60	0.190	MMS-HY-00125
2TE-DN12	1/2"	12.7	19.7	58	841	232	3364	70	0.230	MMS-HY-00126
2TE-DN16	5/8"	16	23.9	50	725	200	2900	90	0.315	MMS-HY-00127
2TE-DN19	3/4"	19	27	45	652.5	180	2610	110	0.370	MMS-HY-00128
2TE-DN25	1"	25.4	34.4	40	580	160	2320	150	0.540	MMS-HY-00129

HYDRAULIC HOSE EN 854 3TE



Composition:

- Inner tube: nitrile rubber resistant to hydraulic oil
- Reinforcement: two textile braids
- Cover: synthetic rubber resistant to oil, abrasion resistant and weather

Working temperature: from -40 °C to +100 °C



Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
3TE-DN6	1/4"	6.4	14.4	145	2102.5	580	8410	45	0.165	MMS-HY-00130
3TE-DN8	5/16"	8	16.9	130	1885	520	7540	55	0.215	MMS-HY-00131
3TE-DN10	3/8"	9.5	18.5	110	1595	440	6380	70	0.240	MMS-HY-00132
3TE-DN12	1/2"	12.7	21.7	93	1348.5	372	5394	85	0.295	MMS-HY-00133
3TE-DN16	5/8"	16	25.9	80	1160	320	4640	105	0.400	MMS-HY-00134
3TE-DN19	3/4"	19	29	70	1015	280	4060	130	0.455	MMS-HY-00135
3TE-DN25	1"	25.4	35.9	55	797.5	220	3190	150	0.610	MMS-HY-00136

HOT WATER HOSE 2SC BLUE



Composition:

- Inner tube: synthetic rubber resistant to mineral, vegetable and hydraulic oil
- Reinforcement: two braids of steel wire
- Cover: synthetic rubber resistant to oil, abrasion and weather

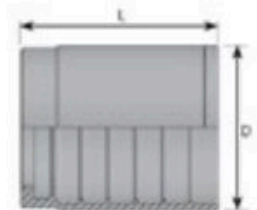
Working temperature: from -40 °C to +155 °C



Description	DN	Inner-Ø	Outer-Ø	bar	psi	bar	psi	mm	kg/m	REF
2SC-DN6 HW blue	1/4"	6.5	13.9	400	5800	1600	23200	75	0.190	MMS-HY-00137
2SC-DN8 HW blue	5/16"	8.3	14.6	400	5800	1400	20300	85	0.300	MMS-HY-00138
2SC-DN10 HW blue	3/8"	9.9	16.6	400	5800	1320	19140	90	0.370	MMS-HY-00139
2SC-DN12 HW blue	1/2"	12.9	21	275	3988	1100	15950	130	0.360	MMS-HY-00140

FERRULE FOR 1SN - 2SN - 2SC (HOT WATER) - 3TE NO SKIVE

Description	Hose Ø	L mm	D mm	REF
F-1SN-2SC-DN 05	3/16"	23	21	MMS-HY-00141
F-1SN-2SC-DN 06	1/4"	30	23	MMS-HY-00142
F-1SN-2SC-DN 08	5/16"	30	24	MMS-HY-00143
F-1SN-2SC-DN 10	3/8"	32	26	MMS-HY-00144
F-1SN-2SC-DN 12	1/2"	34	29	MMS-HY-00145
F-1SN-2SC-DN 16	5/8"	37	33	MMS-HY-00146
F-1SN-2SC-DN 19	3/4"	42	37	MMS-HY-00147
F-1SN-2SC-DN 25	1"	51	46	MMS-HY-00148
F-1SN-2SC-DN 31	1 1/4"	59	59	MMS-HY-00149
F-1SN-2SC-DN 38	1 1/2"	67	67	MMS-HY-00150
F-1SN-2SC-DN 51	2"	72	80	MMS-HY-00151

FERRULE FOR 1SC NO SKIVE

Description	Hose Ø	L mm	D mm	REF
F-1SC-DN 06	1/4"	30	20	MMS-HY-00152
F-1SC-DN 08	5/16"	30	22	MMS-HY-00153
F-1SC-DN 10	3/8"	32	24	MMS-HY-00154
F-1SC-DN 12	1/2"	34	28	MMS-HY-00155
F-1SC-DN 16	5/8"	37	32	MMS-HY-00156
F-1SC-DN 19	3/4"	42	35	MMS-HY-00157
F-1SC-DN 25	1"	51	43	MMS-HY-00158

You can find our ferrules **CONTACT EMS / MMS**



HYDRAULIC HOSES AND ACCESSORIES

FERRULE FOR 2ST/R2A SKIVE



Description	Hose Ø	L mm	D mm	REF
F-R2A-DN 06	1/4"	22	30	MMS-HY-00167
F-R2A-DN 08	5/16"	24	30	MMS-HY-00168
F-R2A-DN 10	3/8"	26	32	MMS-HY-00169
F-R2A-DN 12	1/2"	30	34	MMS-HY-00170
F-R2A-DN 16	5/8"	34	37	MMS-HY-00171
F-R2A-DN 19	3/4"	38	43	MMS-HY-00172
F-R2A-DN 25	1"	46	50	MMS-HY-00173
F-R2A-DN 31	1 1/4"	56	59	MMS-HY-00174
F-R2A-DN 38	1 1/2"	62	63	MMS-HY-00175
F-R2A-DN 51	2"	75	79	MMS-HY-00176

FERRULE FOR R7 - R8 - STEELBREAD - NO SKIVE



Description	Hose Ø	L mm	D mm	REF
F-R7 DN 05	3/16"	14	30	MMS-HY-00159
F-R7 DN 06	1/4"	17	30	MMS-HY-00160
F-R7 DN 08	5/16"	19	30	MMS-HY-00161
F-R7 DN 10	3/8"	21	30	MMS-HY-00162
F-R7 DN 12	1/2"	25.5	34	MMS-HY-00163
F-R7 DN 16	5/8"	28.5	36	MMS-HY-00164
F-R7 DN 19	3/4"	32	42	MMS-HY-00165
F-R7 DN 25	1"	40	50	MMS-HY-00166

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FERRULE FOR 2TE - NO SKIVE

Description	Hose Ø	L mm	D mm	REF
F-2TE DN 06	1/4"	30	18	MMS-HY-00183
F-2TE DN 08	5/16"	30	20	MMS-HY-00184
F-2TE DN 10	3/8"	32	22	MMS-HY-00185
F-2TE DN 12	1/2"	34	26	MMS-HY-00186
F-2TE DN 16	5/8"	37	30	MMS-HY-00187
F-2TE DN 19	3/4"	42	33	MMS-HY-00188
F-2TE DN 25	1"	51	41	MMS-HY-00189

FERRULE FOR R9R - 4SP NO SKIVE

Description	Hose Ø	L mm	D mm	REF
F-4SP-4SH-NO SKIVE-DN 10	3/8"	33	33	MMS-HY-00177
F-4SP-4SH-NO SKIVE-DN 12	1/2"	35.5	36	MMS-HY-00178
F-4SP-4SH-NO SKIVE-DN 16	5/8"	40.5	40	MMS-HY-00179
F-4SP-4SH-NO SKIVE-DN 19	3/4"	43.5	44	MMS-HY-00180
F-4SP-4SH-NO SKIVE-DN 25	1"	51	54.4	MMS-HY-00181
F-4SP-4SH-NO SKIVE-DN 31	1 1/4"	62.5	63.5	MMS-HY-00182

FERRULE FOR R9R - 4SP SKIVE

Description	Hose Ø	L mm	D mm	REF
F-4SP DN 06	1/4"	30	22	MMS-HY-00190
F-4SP-		32	26	MMS-HY-00191
F-4SP-		34	30	MMS-HY-00192
F-4SP-		40	34	MMS-HY-00193
F-4SP-		45.2	38	MMS-HY-00194
F-4SP-		56	46	MMS-HY-00195
F-4SP-		66	59	MMS-HY-00196
F-4SP-		76.5	65	MMS-HY-00197
F-4SP-		80	80	MMS-HY-00198

CONTACT EMS / MMS

HYDRAULIC HOSES AND ACCESSORIES

INTERLOCK FERRULE FOR 4SH DOUBLE SKIVE



Description	Hose Ø	L mm	D mm	REF
I-F-4SH-DN 16	5/8"	52	36	MMS-HY-00200
I-F-4SH-DN 19	3/4"	60	38	MMS-HY-00201
I-F-4SH-DN 25	1"	74.5	46	MMS-HY-00202
I-F-4SH-DN 31	1 1/4"	87.8	56	MMS-HY-00203
I-F-4SH-DN 38	1 1/2"	94.4	62	MMS-HY-00204
I-F-4SH-DN 51	2"	99	79.5	MMS-HY-00205

INTERLOCK FERRULE FOR R13 - R15 DOUBLE SKIVE



Description	Hose Ø	L mm	D mm	REF
I-F-R13-R15-DN 31	1 1/4"	87.8	60	MMS-HY-00206
I-F-R13-R15-DN 38	1 1/2"	94.4	67	MMS-HY-00207
I-F-R13-R15-DN 51	2"	99	84.5	MMS-HY-00208

FERRULE FOR R4 NO SKIVE



Description	Hose Ø	L mm	D mm	REF
F-R4-DN 19	3/4"	38	42	MMS-HY-00199
F-R4-DN 25	1"	46	50	MMS-HY-00148
F-R4-DN 31	1 1/4"	66	59	MMS-HY-00196
F-R4-DN 38	1 1/2"	76.5	65	MMS-HY-00197
F-R4-C		80	80	MMS-HY-00198

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SPIRAL PROTECTION, BLACK

Int-Ø mm	Thickness mm	Width mm	Qty/box	REF
7	1	6.5	150 m	MMS-HY-00209
10	1.5	10	50 m	MMS-HY-00210
11.5	1.5	12	20 m	MMS-HY-00211
14	1.8	14.5	20 m	MMS-HY-00212
20	2	21	20 m	MMS-HY-00213
25	2.4	24	20 m	MMS-HY-00214
32	2.4	30	20 m	MMS-HY-00215
38	3	35	20 m	MMS-HY-00216
50	3.5	40	20 m	MMS-HY-00217
60	3.8	40	20 m	MMS-HY-00218
72	4.6	45	20 m	MMS-HY-00219
87	5.5	55	12 m	MMS-HY-00220
114	5.5	55	12 m	MMS-HY-00221
129	5.5	55	8 m	MMS-HY-00222
149	5.5	60	6 m	MMS-HY-00223

**SPIRAL PROTECTION, YELLOW**

Int-Ø mm	Thickness mm	Width mm	Qty/box	REF
16	2	16	1 m	MMS-HY-00224
22	1	16	1 m	MMS-HY-00225
30	2	16	1 m	MMS-HY-00226
40	2	16	1 m	MMS-HY-00227
60	4	30	1 m	MMS-HY-00228
80	5	25	1 m	MMS-HY-00229
100	6	45	1 m	MMS-HY-00230
125	6	45	1 m	MMS-HY-00231
140	6	45	1 m	MMS-HY-00232
190	6	45	1 m	MMS-HY-00233

HYDRAULIC HOSES AND ACCESSORIES

STEEL SPIRAL PROTECTION



Int-Ø	Thickness	Qty/box	REF
14	2	10 m	MMS-HY-00234
17	2	10 m	MMS-HY-00235
19	2	10 m	MMS-HY-00236
21	2	10 m	MMS-HY-00237
25	2	10 m	MMS-HY-00238
27	2	10 m	MMS-HY-00239
30	2	10 m	MMS-HY-00240
34	2	10 m	MMS-HY-00241
41	3	10 m	MMS-HY-00242
48	3	10 m	MMS-HY-00243
55	3	10 m	MMS-HY-00244

VELCO STRAP FOR HOSES



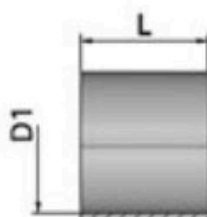
Ø mm	REF
100	MMS-HY-00245
200	MMS-HY-00246
300	MMS-HY-00247
406	MMS-HY-00248
508	MMS-HY-00249

TEXTILE PROTECTION



Inner Ø mm	L mm	Qty/box	REF
35	18	1 m	MMS-HY-00250
40	20	1 m	MMS-HY-00251
45	23	1 m	MMS-HY-00252
50	28	1 m	MMS-HY-00253
55	30	1 m	MMS-HY-00254
65	36	1 m	MMS-HY-00255
80	43	1 m	MMS-HY-00256
120	68	1 m	MMS-HY-00257
150	85	1 m	MMS-HY-00258

FERRULE FOR TEXTILE PROTECTION



D1 mm	L mm	REF
22	30	MMS-HY-00259
27	30	MMS-HY-00260
32	30	MMS-HY-00261
38	30	MMS-HY-00262
46	30	MMS-HY-00263

STEEL PIPES (HIGH-PRESSURE)**Type:**

Seamless cold drawn high-pressure pipe in conformity with DIN 2445/2.

Material:

Steel ST. 35.4. Mat. no. 1.0309.

Finish:

Blank blown as per NBK-norm, internally and externally phosphated against corrosion and oiled, 100% tested for pressure, stamped and plugged at the ends

Lengths:

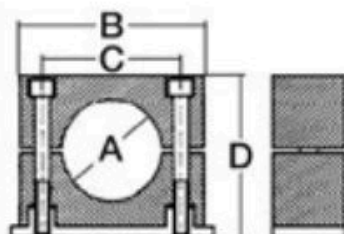
Sold per metre

 mm	 mm	Working pressure bar	Proof pressure bar	Burst pressure bar	REF
4	0.5	266	404	953	MMS-HY-00264
6	1	377	558	1320	MMS-HY-00265
6	1.5	565	792	2145	MMS-HY-00266
8	1	282	430	953	MMS-HY-00267
8	1.5	424	619	1514	MMS-HY-00268
8	2	565	792	2145	MMS-HY-00269
10	1	239	370	746	MMS-HY-00270
10	1.5	359	538	1170	MMS-HY-00271
10	2	479	694	1634	MMS-HY-00272
12	1	199	308	612	MMS-HY-00273
12	1.5	299	455	953	MMS-HY-00274
12	2	399	591	1320	MMS-HY-00275
14	1.5	256	394	804	MMS-HY-00276
14	2	342	514	1107	MMS-HY-00277
15	1.5	239	370	746	MMS-HY-00278
15	2	319	483	1024	MMS-HY-00279
16	1.5	224	347	695	MMS-HY-00280
16	2	299	455	953	MMS-HY-00281
16	2.5	374	558	1225	MMS-HY-00282
16	3	449	656	1514	MMS-HY-00283
18	1.5	199	308	612	MMS-HY-00284
18	2	266	408	837	MMS-HY-00285
18	3	399	591	1320	MMS-HY-00286
20	1.5	179	277	547	MMS-HY-00287
20	2	239	370	746	MMS-HY-00288
25	2	191	296	586	MMS-HY-00289
25	2.5	239	370	746	MMS-HY-00290
25	3	287	438	912	MMS-HY-00291
25	4	399	495	1259	MMS-HY-00292
28	1.5	128	198	384	MMS-HY-00293
28	2	171	264	520	MMS-HY-00294
28	3	256	394	804	MMS-HY-00295
30	2	159	246	483	MMS-HY-00296

For the necessary cutting ring fitting, please check the chapter with cutting ring fittings.

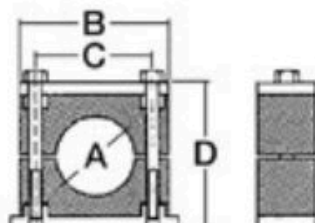
HYDRAULIC HOSES AND ACCESSORIES

SINGLE PIPE SUPPORT WITH LOWER PLATE



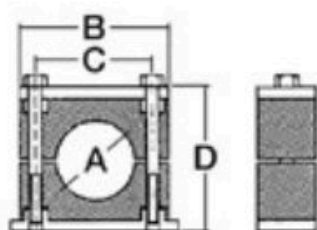
A mm	B mm	C mm	D mm	REF
6	34	20	27	MMS-HY-00297
8	34	20	27	MMS-HY-00298
10	34	20	27	MMS-HY-00299
12	34	20	27	MMS-HY-00300
1/8	34	20	27	MMS-HY-00301
14	40	26	33	MMS-HY-00302
15	40	26	33	MMS-HY-00303
16	40	26	33	MMS-HY-00304
18	40	26	33	MMS-HY-00305
19	40	26	33	MMS-HY-00306
1/4	40	26	33	MMS-HY-00307
3/8	40	26	33	MMS-HY-00308
19	48	33	35	MMS-HY-00309
20	48	33	35	MMS-HY-00310
22	48	33	35	MMS-HY-00311
25	48	33	35	MMS-HY-00312
1/2	48	33	35	MMS-HY-00313
28	57	40	42	MMS-HY-00314
30	57	40	42	MMS-HY-00315
32	57	40	42	MMS-HY-00316
3/4	57	40	42	MMS-HY-00317
35	68	52	58	MMS-HY-00318
38	68	52	58	MMS-HY-00319
40	68	52	58	MMS-HY-00320
42	68	52	58	MMS-HY-00321

SINGLE PIPE SUPPORT WITH LOWER AND UPPER PLATE



A mm	B mm	C mm	D mm	REF
6	34	20	27	MMS-HY-00322
8	34	20	27	MMS-HY-00323
10	34	20	27	MMS-HY-00324
12	34	20	27	MMS-HY-00325
1/8	34	20	27	MMS-HY-00324
14	40	26	33	MMS-HY-00326
15	40	26	33	MMS-HY-00327
16	40	26	33	MMS-HY-00328
18	40	26	33	MMS-HY-00329
19	40	26	33	MMS-HY-00330
1/4	40	26	33	MMS-HY-00331
3/8	40	26	33	MMS-HY-00332
19	48	33	35	MMS-HY-00333
20	48	33	35	MMS-HY-00334
22	48	33	35	MMS-HY-00335
25	48	33	35	MMS-HY-00336
1/2	48	33	35	MMS-HY-00337
28	57	40	42	MMS-HY-00338
30	57	40	42	MMS-HY-00339
32	57	40	42	MMS-HY-00340
3/4	57	40	42	MMS-HY-00341
35	68	52	58	MMS-HY-00342
38	68	52	58	MMS-HY-00343
40	68	52	58	MMS-HY-00344
42	68	52	58	MMS-HY-00345

SINGLE PIPE SUPPORT HEAVY DUTY LOWER AND UPPER PLATE



A mm	B mm	C mm	D mm	REF
16	55	33	32	MMS-HY-00346
18	55	33	32	MMS-HY-00347
20	70	45	48	MMS-HY-00348
22	70	45	48	MMS-HY-00349
25	70	45	48	MMS-HY-00350
28	70	45	48	MMS-HY-00351
30	85	60	60	MMS-HY-00352
35	85	60	60	MMS-HY-00353
38	120	90	90	MMS-HY-00354
40	120	90	90	MMS-HY-00355
42	120	90	90	MMS-HY-00356

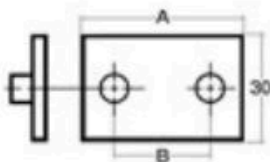
ACCESSOIRES SINGLE PIPE SUPPORT



A mm	B mm	C mm	D mm	REF
6	35	20	27	MMS-HY-00357
8	35	20	27	MMS-HY-00358
10 (1/8)	35	20	27	MMS-HY-00359
12	35	20	27	MMS-HY-00360
14	41	26	27	MMS-HY-00361
15	41	26	33	MMS-HY-00362
16	41	26	33	MMS-HY-00363
18	41	26	33	MMS-HY-00364
19	41	26	33	MMS-HY-00365
1/4 (13.5)	41	26	33	MMS-HY-00366
3/8 (17.2)	41	26	33	MMS-HY-00367
19	48	33	35	MMS-HY-00368
20	48	33	35	MMS-HY-00369
22	48	33	35	MMS-HY-00370
25	48	33	35	MMS-HY-00371
1/2 (21.3)	48	33	35	MMS-HY-00372
28	57	40	42	MMS-HY-00373
30	57	40	42	MMS-HY-00374
32	57	40	42	MMS-HY-00375
3/4 (26.9)	57	40	42	MMS-HY-00376
1" (33.7)	69	52	58	MMS-HY-00377
35	69	52	58	MMS-HY-00378
38	69	52	58	MMS-HY-00379
40	69	52	58	MMS-HY-00380
42 (1 1/4")	69	52	58	MMS-HY-00381
45	69	52	58	MMS-HY-00382
44.5	86	66	66	MMS-HY-00383
48.3 (1 1/2")	86	66	66	MMS-HY-00384
50.8	86	66	66	MMS-HY-00385

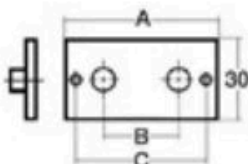
HYDRAULIC HOSES AND ACCESSORIES

LOWER PLATE



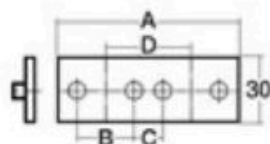
A mm	B mm	REF
41	20	MMS-HY-00386
47	26	MMS-HY-00387
54	33	MMS-HY-00388
61	40	MMS-HY-00389
74	52	MMS-HY-00390

EXTENDED LOWER PLATE



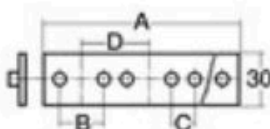
A mm	B mm	C mm	REF
64	20	51	MMS-HY-00391
70	26	56	MMS-HY-00392
78	33	64	MMS-HY-00393
87	40	70	MMS-HY-00394
97	52	83	MMS-HY-00395

LOWER PLATE DOUBLE

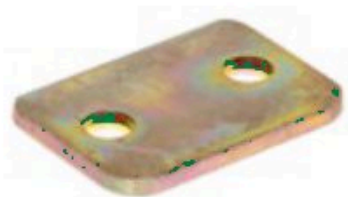
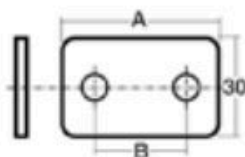


A mm	B mm	C mm	D mm	REF
81	20	20	40	MMS-HY-00396
91	26	18	44	MMS-HY-00397
106	33	19	52	MMS-HY-00398
121	40	20	60	MMS-HY-00399
148	52	23	75	MMS-HY-00400

LOWER PLATE MULTI



A mm	B mm	C mm	D mm	REF
401	20	20	40	MMS-HY-00401
443	26	18	44	MMS-HY-00402
522	33	19	52	MMS-HY-00403
301	40	20	60	MMS-HY-00404
374	52	23	75	MMS-HY-00405
447	66	24	90	MMS-HY-00406

UPPER PLATE

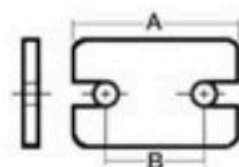
A mm	B mm	REF
34	20	MMS-HY-00407
40	26	MMS-HY-00408
48	33	MMS-HY-00409
57	40	MMS-HY-00410
68	52	MMS-HY-00411

ALLEN KEY BOLT

Screw thread	Length mm	REF
M6	20	MMS-HY-00412
M6	25	MMS-HY-00413
M6	30	MMS-HY-00414
M6	35	MMS-HY-00415
M6	50	MMS-HY-00416

HEXAGON HEAD BOLT

Screw thread	Length mm	REF
M6	30	MMS-HY-00417
M6	35	MMS-HY-00418
M6	40	MMS-HY-00419
M6	45	MMS-HY-00420
M6	60	MMS-HY-00421

INTERMEDIATE PLATE

A mm	B mm	REF
34	20	MMS-HY-00422
40	26	MMS-HY-00423
48	33	MMS-HY-00424
57	40	MMS-HY-00425
68	52	MMS-HY-00426

INTERMEDIATE STACK SCREW



Screw thread	Length mm	REF
M6	20	MMS-HY-00427
M6	25	MMS-HY-00428
M6	30	MMS-HY-00429
M6	35	MMS-HY-00430
M6	50	MMS-HY-00431

S- RAIL



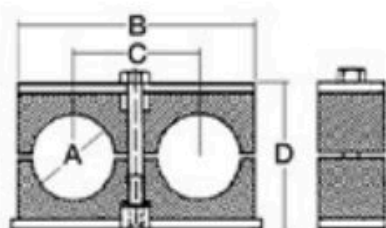
B mm	H mm	REF
28	11	MMS-HY-00432

lengths 2m

S- RAIL ACCESSOIRE



M	D mm	REF
M6	12	MMS-HY-00433

DOUBLE PIPE SUPPORT

A mm	B mm	C mm	D mm	REF
6	37	20	25	MMS-HY-00434
8	37	20	25	MMS-HY-00435
10	37	20	25	MMS-HY-00436
12	37	20	25	MMS-HY-00437
1/8	37	20	25	MMS-HY-00436
14	53	29	26	MMS-HY-00438
15	53	29	26	MMS-HY-00439
16	53	29	26	MMS-HY-00440
18	53	29	26	MMS-HY-00441
1/4	53	29	26	MMS-HY-00442
3/8	53	29	26	MMS-HY-00443
20	67	36	37	MMS-HY-00444
22	67	36	37	MMS-HY-00445
25	67	36	37	MMS-HY-00446
1/2	67	36	37	MMS-HY-00447
28	82	45	42	MMS-HY-00448
30	82	45	42	MMS-HY-00449
3/4	82	45	42	MMS-HY-00450
35	106	56	54	MMS-HY-00451
38	106	56	54	MMS-HY-00452
42	106	56	54	MMS-HY-00453
1"	106	56	54	MMS-HY-00454
1 1/4	106	56	54	MMS-HY-00455

ACCESSOIRES DOUBLE PIPE SUPPORT

A mm	B mm	C mm	D mm	REF
6	36	20	25	MMS-HY-00456
8	36	20	25	MMS-HY-00457
10 (1/8)	36	20	25	MMS-HY-00458
12	36	20	25	MMS-HY-00459
14	53	29	26	MMS-HY-00460
15	53	29	26	MMS-HY-00461
16	53	29	26	MMS-HY-00462
18	53	29	26	MMS-HY-00463
1/4 (13.5)	53	29	26	MMS-HY-00464
3/8 (17.2)	53	29	26	MMS-HY-00465
19	67	36	37	MMS-HY-00466
20	67	36	37	MMS-HY-00467
22	67	36	37	MMS-HY-00468
25	67	36	37	MMS-HY-00469
1/2 (21.3)	67	36	37	MMS-HY-00470
28	82	45	42	MMS-HY-00471
30	82	45	42	MMS-HY-00472
3/4 (26.9)	82	45	42	MMS-HY-00473
35	106	56	54	MMS-HY-00474
38	106	56	54	MMS-HY-00475
42 (1 1/4)	106	56	54	MMS-HY-00476
1" (33.7)	106	56	54	MMS-HY-00477

DOUBLE PIPE SUPPORT - LOWER PLATE



F	d mm	REF
30	7	MMS-HY-00478
55	9	MMS-HY-00479
70	9	MMS-HY-00480
85	9	MMS-HY-00481
110	9	MMS-HY-00482

DOUBLE PIPE SUPPORT - UPPER PLATE



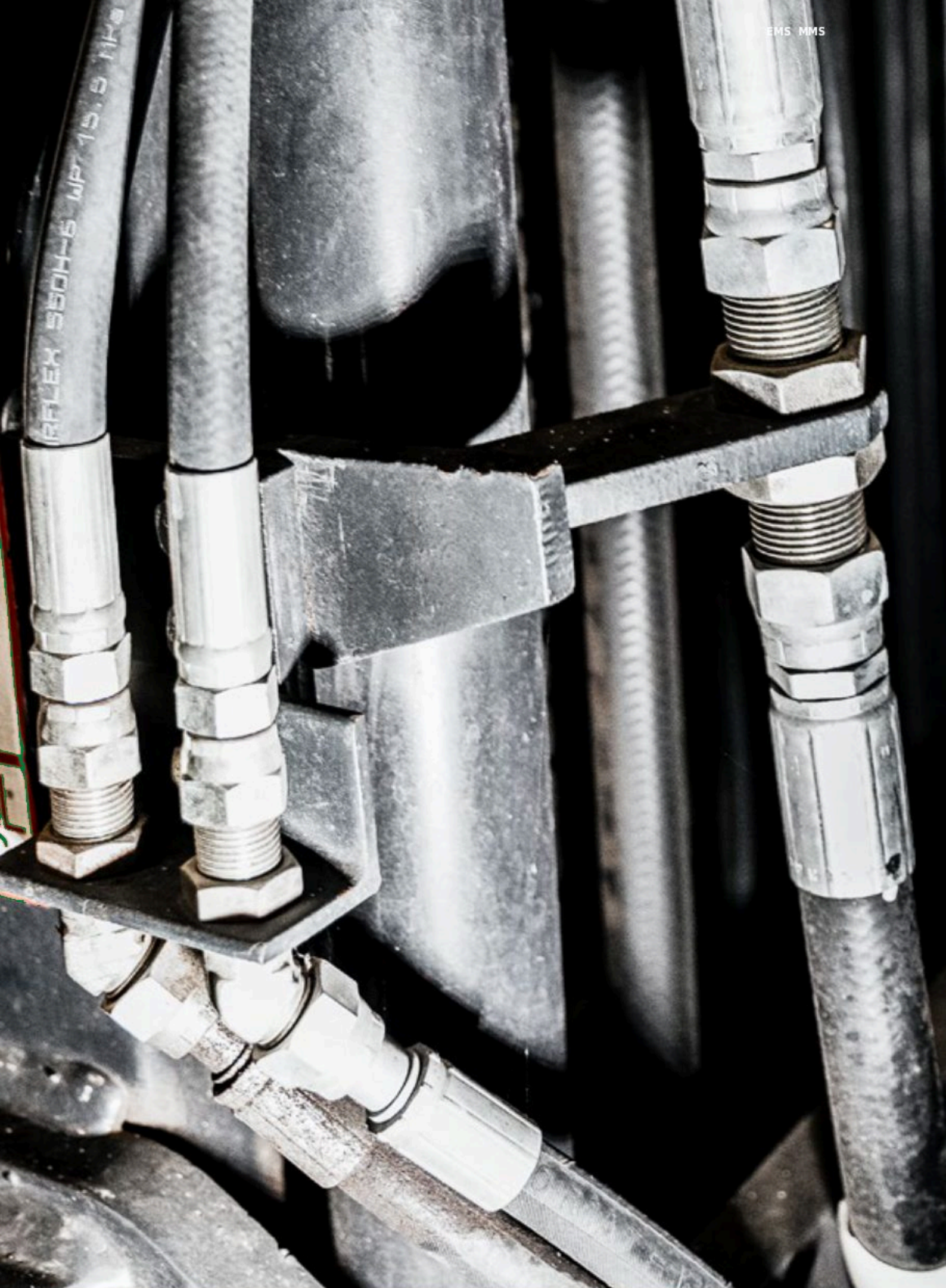
F	d mm	REF
35	20	MMS-HY-00483
52	26	MMS-HY-00484
66	33	MMS-HY-00485
81	40	MMS-HY-00486
105	52	MMS-HY-00487

HEXAGON HEAD BOLT



M	Length mm	REF
M6	35	MMS-HY-00488
M8	35	MMS-HY-00489
M8	45	MMS-HY-00490
M8	50	MMS-HY-00491
M8	60	MMS-HY-00492

NOTES



03.

HYDRAULIC CRIMP FITTINGS

HYDRAULIC CRIMP FITTINGS

CONVERSION TABLE - THREADED CONNECTIONS

OUTER THREAD							INNER THREAD						
Dia.	Step mm	Step inch	Metric type	BSP	NPT	NF-thread JIC/SAE	Dia.	Step mm	Step inch	Metric type	BSP	NPT	NF-thread JIC/SAE
9.728		28		1/8			8.565		28		1/8		
10	1		M10x1				8.674		27			1/8	
10		1.5	M10x1.5				8.701	1		M10x1			
10.287		27			1/8		9.025	1.5		M10x1.5			
11.113		20				7/16-20	9.738		20				7/16-20
12	1.5		M12x1.5				10.052	1.5		M12x1.5			
12.7		20				1/2-20	11.265		18			1/4	
13.157		19		1/4			11.326		20				1/2-20
13.718		18			1/4		11.445		19		1/4		
14	1.5		M14x1.5				12.052	1.5		M14x1.5			
14.288		18				9/16-18	12.761		18				9/16-18
15.875		18				5/8-18	14.052	1.5		M16x1.5			
16	1.5		M16x1.5				14.348		18				
16.662		19		3/8			14.704		18			3/8	
17.145		18			3/8		14.95		19		3/8		
18	1.5		M18x1.5				16.052	1.5		M18x1.5			
19.05		16				3/4-16	17.330		16				3/4-16
20	1.5		M20x1.5				18.052	1.5		M20x1.5			
20.955		14		1/2			18.161		14			1/2	
21.336		14			1/2		18.633		14		1/2		
22	1.5		M22x1.5				20.052	1.5		M22x1.5			
22.225		14				7/8-14	20.262		14				7/8-14
22.911		14		5/8			20.589		14		5/8		
24	1.5		M24x1.5				22.052	1.5		M24x1.5			
26	1.5		M26x1.5				23.508		14			3/4	
26.441		14		3/4			24.052	1.5		M26x1.5			
26.67		14			3/4		24.120		14		3/4		
26.988		14				1 1/16-14	24.402	2		M27x2			
26.988		12				1 1/16-12	24.696		14				1 1/16-14
27	2		M27x2				24.696		12				1 1/16-12
30	1.5		M30x1.5				27.402	2		M30x2			
30	2		M30x2				27.871		12				13/16-12
30.163		12				1 3/16-12	28.052	1.5		M30x1.5			
33	2		M33x2				29.517		11 1/2			1	
33.249		11		1			30.292		11		1		
33.338		12				1 5/16-12	30.402	2		M33x2			
33.401		11 1/2			1		31.046		12				1 5/16-12
36	2		M36x2				33.402	2		M36x2			
38	1.5		M38x1.5				36.052	1.5		M38x1.5			
41.275		12				1 5/8-12	38.252		11 1/2			1 1/4	
41.91		11		1 1/4			38.953		11		1 1/4		
42	2		M42x2				38.984		12				1 5/8-12
42.164		11 1/2			1 1/4		39.402	2		M42x2			
45	1.5		M45x1.5				42.402	2		M45x2			
45	2		M45x2				43.052	1.5		M45x1.5			
47.625		12				1 7/8-12	44.323		11 1/2			1 1/2	
47.803		11		1 1/2			44.846		11		1 1/2		
48	2		M48x2				45.334		12				1 7/8-12
48.26		11 1/2			1 1/2		45.402	2		M48x2			
52	2		M52x2				49.402	2		M52x2			

SCREW THREAD IDENTIFICATION

Module	Tube mm	Metric	Outer thread dia. mm	Inside thread dia. mm	Module	Tube mm	Metric	Outer thread dia. mm	Inside thread dia. mm
-4LL	4	M8x1	8	7	-28L	28	M36x2	36	33.9
-5LL	5	M10x1	10	9	-35L	35	M45x2	45	43.5
-6LL	6	M10x1	10	9	-42L	42	M52x2	52	49.9
-8LL	8	M12x1	12	10.5	-6S	6	M14x1.5	14	12.5
-10LL	10	M14x1	14	12.5	-8S	8	M16x1.5	16	14.5
-12LL	12	M16x1	16	14.5	-10S	10	M18x1.5	18	16.5
-6L	6	M12x1.5	12	10.5	-12S	12	M20x1.5	20	18.5
-8L	8	M14x1.5	14	12.5	-14S	14	M22x1.5	22	20.5
-10L	10	M16x1.5	16	14.5	-16S	16	M24x1.5	24	22.5
-12L	12	M18x1.5	18	16.5	-20S	20	M30x2	30	28.5
-15L	15	M22x1.5	22	20.5	-25S	25	M36x2	36	33.9
-18L	18	M26x1.5	26	24.5	-30S	30	M42x2	42	39.9
-22L	22	M30x2	30	28.5	-38S	38	M52x2	52	49.9

IDENTIFICATION ASSIST THREAD

	Description	Type	REF
	IDENTIFICATION ASSIST THREAD BSP 1/8 - 1-1/4	Sort BSP	MMS-HY-00493
	IDENTIFICATION ASSIST THREAD JIC 7/16 - 2 1/2	Sort JIC	MMS-HY-00494
	IDENTIFICATION ASSIST THREAD METRIC 6L-35L	Sort DKOL	MMS-HY-00495
	IDENTIFICATION ASSIST THREAD METRIC 6S-38S	Sort DKOS	MMS-HY-00496
	IDENTIFICATION ASSIST THREAD ORFS 9/16 - 2-1/2	Sort ORFS	MMS-HY-00497
	IDENTIFICATION ASSIST THREAD SAE	Sort Flange / Banjo	MMS-HY-00498

We developed 6 screw thread identification plates. You can use the fittings of the plate to measure the correct thread.

HYDRAULIC CRIMP FITTINGS

INDEX CRIMPING FITTINGS

Varia		Page	JIS		Page
HYDRAULIC COUPLINGS		65	HYDRAULIC PRESS COUPLING JIS KOMA FEMALE		80
HYDRAULIC COUPLINGS - WELDABLE		65	HYDRAULIC PRESS COUPLING JIS KOMA FEMALE - 90°		80
BSP			HYDRAULIC PRESS COUPLING JIS KOMA FEMALE - 45°		81
BSPP MALE - 60° CONE		66	HYDRAULIC PRESS COUPLING JIS TOYO FEMALE		82
BSPP MALE - 60° CONE - TAPERED		67	HYDRAULIC PRESS COUPLING JIS TOYO FEMALE - 90°		82
BSPP FEMALE - 60° CONE		68	HYDRAULIC PRESS COUPLING JIS TOYO FEMALE - 45°		82
BSPP FEMALE - 60° CONE - 90° ELBOW		69	METRIC - DIN		
BSPP FEMALE - 60° CONE - 90° ELBOW (COMPACT FORGED)		69	HYDRAULIC PRESS COUPLING METRIC 60 - MALE		83
BSPP FEMALE - 60° CONE - 45° ELBOW		70	HYDRAULIC PRESS COUPLING METRIC 60 - FEMALE		84
HYDRAULIC PRESS COUPLING BSPP FLAT SEALING - MALE		71	HYDRAULIC PRESS COUPLING METRIC 60 - FEMALE - 90°		85
HYDRAULIC PRESS COUPLING BSPP FLAT SEALING - FEMALE		71	HYDRAULIC PRESS COUPLING METRIC 60 - FEMALE - 45°		86
NPT			METRIC MALE 24° CONE - L-TYPE		87
NPTF MALE - 60° CONE		72	METRIC FEMALE 24° CONE - L-TYPE		88
NPSM FEMALE - 60° CONE		72	METRIC FEMALE 24° CONE - 90° ELBOW - L-TYPE		89
HYDRAULIC PRESS COUPLING NPTF - MALE - ROTATING		73	METRIC FEMALE 24° CONE - 45° ELBOW - L-TYPE		90
HYDRAULIC PRESS COUPLING NPTF - MALE - 90° - ROTATING		73	METRIC MALE 24° CONE - S-TYPE		91
JIC			METRIC FEMALE 24° CONE - S-TYPE		92
JIC 37° - MALE		74	METRIC FEMALE 24° CONE - 90° ELBOW - S-TYPE		93
JIC 37° - FEMALE STRAIGHT		75	METRIC FEMALE 24° CONE - 45° ELBOW - S-TYPE		94
HYDRAULIC PRESS COUPLING JIC 37° - FEMALE - DOUBLE HEXAGON		76	STANDPIPE		95
JIC 37° - FEMALE - 90° ELBOW		77	TUBE SOCK METRIC - 90°		96
JIC 37° - FEMALE - 90° ELBOW (COMPACT FORGED)		78	TUBE SOCK METRIC - 45°		96
JIC 37° - FEMALE - 90° ELBOW (LONG DROP)		78			
JIC 37° - FEMALE - 45° ELBOW		79			

INDEX CRIMPING FITTINGS

FRENCH SERIE		Page	BANJOS		Page
HYDRAULIC PRESS COUPLING FRENCH METRIC 24° - MALE		97	BANJOS - METRIC		107
HYDRAULIC PRESS COUPLING FRENCH METRIC 24° - FEMALE		97	METRIC BANJO BOLT		107
HYDRAULIC PRESS COUPLING FRENCH METRIC 24° - FEMALE - 90°		97	HOSE COUPLING		
TUBE SOCK "FRENCH SERIES"		98	HOSE COUPLING		108
HYDRAULIC PRESS COUPLING FRENCH METRIC 24° - FEMALE - 45°		98	HOSE COUPLING - FEMALE - 90°		108
ORFS		Page	HOSE COUPLING - MALE		108
ORFS - MALE		99	FLANGE SAE		
ORFS - FEMALE		99	FLANGE CODE 61 - 3000 PSI		109
HYDRAULIC PRESS COUPLING - FEMALE - DOUBLE HEXAGON		100	FLANGE CODE 61 - 90° ELBOW - 3000 PSI		109
ORFS - FEMALE SWIVEL - 90° ELBOW		101	SAE FLANGE 3000 PSI - 90° LONG DROP		110
ORFS - FEMALE SWIVEL - 90° ELBOW (LONG DROP)		101	SAE FLANGE 3000 PSI - 60°		110
ORFS - FEMALE SWIVEL - 45° ELBOW		102	FLANGE CODE 61 - 45° ELBOW - 3000 PSI		111
SAE		Page	SAE FLANGE 3000 PSI - 30°		111
HYDRAULIC PRESS COUPLING SAE + O-RING		103	SAE FLANGE 3000 PSI - 22.5°		112
HYDRAULIC PRESS COUPLING SAE BOSS - MALE		103	SAE SPLIT FLANGES 3000 PSI		112
HYDRAULIC PRESS COUPLING SAE BOSS - MALE - 90° COMPACT		104	FLANGE CODE 62 - 45° ELBOW - 6000 PSI		113
HYDRAULIC PRESS COUPLING SAE 45 - MALE		104	FLANGE CODE 62 - 90° ELBOW - 6000 PSI		113
HYDRAULIC PRESS COUPLING SAE 45 - FEMALE - DOUBLE HEXAGON		104	SAE FLANGE 6000 PSI - 90° LONG DROP		114
HYDRAULIC PRESS COUPLING SAE 45 - 90°		105	SAE FLANGE 6000 PSI - 60°		114
HYDRAULIC PRESS COUPLING SAE 45 - FEMALE - 45°		105	SAE SPLIT FLANGES 6000 PSI		114
BANJOS		Page	FLANGE CODE 62 - 6000 PSI - 45°		115
BANJOS - BSP		106	SAE FLANGE 6000 PSI - 22.5°		115
BSP BANJO BOLT		106	SAE SPLIT FLANGES 6000 PSI - 30°		116

INDEX CRIMPING FITTINGS

FLANGE SAE

SAE FLANGE "CAT" 9000 PSI		116
SAE FLANGE "CAT" 9000 PSI - 90°		116
SAE FLANGE "CAT" 9000 PSI - 90° LONG DROP		117
SAE FLANGE "CAT" 9000 PSI - 45°		117
SEAL SAE 3000 - 6000 PSI FLANGE		117
WIPER SEAL 3000 - 6000 - 9000 PSI FLANGE		117

CLAMP COUPLING

CLAMP COUPLING - MALE		118
CLAMP COUPLING MALE - 90°		118
CLAMP COUPLING - 45°		118

INTERLOCK COUPLING NPTF

INTERLOCK COUPLING NPTF - MALE		119
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INTERLOCK COUPLING BSP

INTERLOCK COUPLING BSPP - MALE		119
INTERLOCK COUPLING BSPT - MALE		119
INTERLOCK COUPLING BSPP - FEMALE		119
INTERLOCK COUPLING BSPP - FEMALE - 90°		120
INTERLOCK COUPLING BSPP - FEMALE - 45°		120

INTERLOCK COUPLING JIC

INTERLOCK COUPLING JIC 37° - MALE		121
INTERLOCK COUPLING JIC 37° - FEMALE		121
INTERLOCK COUPLING JIC 37° - FEMALE - 90°		121
INTERLOCK COUPLING JIC 37° - FEMALE - 90° LONG DROP		122
INTERLOCK COUPLING JIC 37° - FEMALE - 45°		122

INTERLOCK COUPLING METRIC

INTERLOCK COUPLING 24° S - MALE		123
INTERLOCK COUPLING 24° S - FEMALE		123
INTERLOCK COUPLING 24° S - FEMALE - 90°		124
INTERLOCK COUPLING 24° S - FEMALE - 45°		124

INTERLOCK COUPLING ORFS

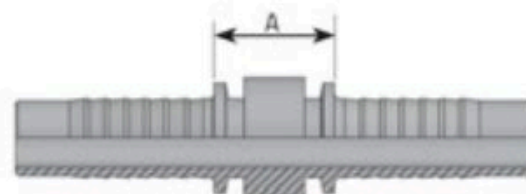
INTERLOCK COUPLING ORFS - MALE		125
INTERLOCK COUPLING ORFS - FEMALE		125
INTERLOCK COUPLING ORFS - FEMALE - 90°		125
INTERLOCK COUPLING ORFS - FEMALE - 90° LONG DROP		126
INTERLOCK COUPLING ORFS - FEMALE - 45°		126

INTERLOCK COUPLING SAE

INTERLOCK COUPLING SAE 3000 PSI		127
INTERLOCK COUPLING SAE 3000 PSI - 90°		127
INTERLOCK COUPLING SAE 3000 PSI - 90° LONG DROP		127
INTERLOCK COUPLING SAE 3000 PSI - 45°		128
INTERLOCK COUPLING SAE 6000 PSI		128
INTERLOCK COUPLING 6000 PSI - 90°		128
INTERLOCK COUPLING 6000 PSI - 90° LONG DROP		129
INTERLOCK COUPLING 6000 PSI - 45°		129
INTERLOCK COUPLING 9000 PSI <<CAT>>		129
INTERLOCK COUPLING 9000 PSI <<CAT>> - 90°		130
INTERLOCK COUPLING 9000 PSI <<CAT>> - 90° LONG DROP		130
INTERLOCK COUPLING 9000 PSI <<CAT>> - 45°		130

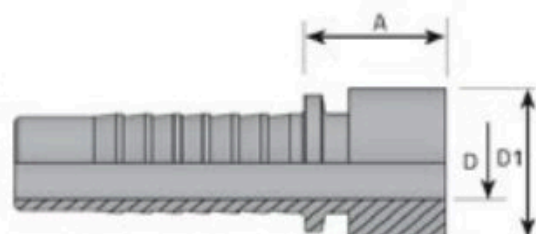
HYDRAULIC COUPLINGS

Description	Hoses	A mm	REF
DOUBLE NIPPLE-DN 06	1/4"	14	MMS-HY-00499
DOUBLE NIPPLE-DN 08	5/16"	14	MMS-HY-00500
DOUBLE NIPPLE-DN 10	3/8"	15	MMS-HY-00501
DOUBLE NIPPLE-DN 12	1/2"	20	MMS-HY-00502
DOUBLE NIPPLE-DN 16	5/8"	16	MMS-HY-00503
DOUBLE NIPPLE-DN 19	3/4"	18	MMS-HY-00504
DOUBLE NIPPLE-DN 25	1"	20	MMS-HY-00505
DOUBLE NIPPLE-DN 31	1 1/4"	21	MMS-HY-00506



HYDRAULIC COUPLINGS - WELDABLE

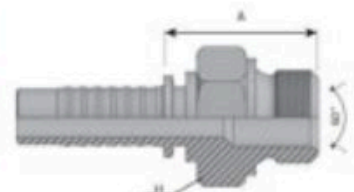
Description	Hoses	A mm	D1 mm	REF
BRAZING TAIL-DN 05	3/16"	14.5	12	MMS-HY-00507
BRAZING TAIL-DN 06	1/4"	12.5	12	MMS-HY-00508
BRAZING TAIL-DN 06-8	1/4"	12.5	12	MMS-HY-00509
BRAZING TAIL-DN 08	5/16"	13.5	14	MMS-HY-00510
BRAZING TAIL-DN 08-10	5/16"	13.6	15	MMS-HY-00511
BRAZING TAIL-DN 10	3/8"	14.5	16	MMS-HY-00512
BRAZING TAIL-DN 10-10	3/8"	14.5	16	MMS-HY-00513
BRAZING TAIL-DN 10-12	3/8"	14.5	16	MMS-HY-00514
BRAZING TAIL-DN 12	1/2"	16	20	MMS-HY-00515
BRAZING TAIL-DN 12-14	1/2"	16	20	MMS-HY-00516
BRAZING TAIL-DN 12-15	1/2"	16	20	MMS-HY-00517
BRAZING TAIL-DN 12-16	1/2"	16	20	MMS-HY-00518
BRAZING TAIL-DN 16	5/8"	18	24	MMS-HY-00519
BRAZING TAIL-DN 19	3/4"	15.5	26	MMS-HY-00520
BRAZING TAIL-DN 25	1"	22	32	MMS-HY-00521
BRAZING TAIL-DN 31	1 1/4"	21.5	40	MMS-HY-00522
BRAZING TAIL-DN 38	1 1/2"	21.5	46	MMS-HY-00523
BRAZING TAIL-DN 51	2"	23	60	MMS-HY-00524



HYDRAULIC CRIMP FITTINGS

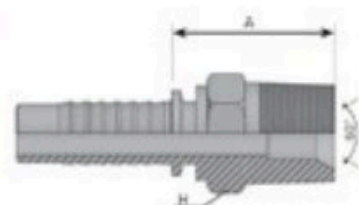
BSPP MALE - 60° CONE

Description	Hoses	Thread	A mm	Hexagon	REF
AGR-1/8"-DN 05	3/16"	1/8"-28	20.5	14	MMS-HY-00525
AGR-1/8"-DN 06	1/4"	1/8"-28	20.5	14	MMS-HY-00526
AGR-1/4"-DN 05	3/16"	1/4"-19	26	19	MMS-HY-00527
AGR-1/4"-DN 06	1/4"	1/4"-19	27	19	MMS-HY-00528
AGR-1/4"-DN 08	5/16"	1/4"-19	27	19	MMS-HY-00529
AGR-1/4"-DN 10	3/8"	1/4"-19	32	27	MMS-HY-00530
AGR-3/8"-DN 06	1/4"	3/8"-19	29	22	MMS-HY-00531
AGR-3/8"-DN 08	5/16"	3/8"-19	29	22	MMS-HY-00532
AGR-3/8"-DN 10	3/8"	3/8"-19	29	22	MMS-HY-00533
AGR-3/8"-DN 12	1/2"	3/8"-19	29	22	MMS-HY-00534
AGR-1/2"-DN 06	1/4"	1/2"-14	32	27	MMS-HY-00535
AGR-1/2"-DN 08	5/16"	1/2"-14	32	27	MMS-HY-00536
AGR-1/2"-DN 10	3/8"	1/2"-14	32	27	MMS-HY-00537
AGR-1/2"-DN 12	1/2"	1/2"-14	33	27	MMS-HY-00538
AGR-1/2"-DN 16	5/8"	1/2"-14	33	27	MMS-HY-00539
AGR-1/2"-DN 19	3/4"	1/2"-14	34	27	MMS-HY-00540
AGR-5/8"-DN 12	1/2"	5/8"-14	34.5	30	MMS-HY-00541
AGR-5/8"-DN 16	5/8"	5/8"-14	34.5	30	MMS-HY-00542
AGR-5/8"-DN 19	3/4"	5/8"-14	36	30	MMS-HY-00543
AGR-3/4"-DN 12	1/2"	3/4"-14	36	32	MMS-HY-00544
AGR-3/4"-DN 16	5/8"	3/4"-14	36	32	MMS-HY-00545
AGR-3/4"-DN 19	3/4"	3/4"-14	37	32	MMS-HY-00546
AGR-3/4"-DN 25	1"	3/4"-14	38	32	MMS-HY-00547
AGR-1"-DN 16	5/8"	1"-11	38	40	MMS-HY-00548
AGR-1"-DN 19	3/4"	1"-11	40	38	MMS-HY-00549
AGR-1"-DN 25	1"	1"-11	40	38	MMS-HY-00550
AGR-1 1/4"-DN 25	1"	1 1/4"-11	45	50	MMS-HY-00551
AGR-1 1/4"-DN 31	1 1/4"	1 1/4"-11	46	50	MMS-HY-00552
AGR-1 1/2"-DN 31	1 1/4"	1 1/2"-11	46	55	MMS-HY-00553
AGR-1 1/2"-DN 38	1 1/2"	1 1/2"-11	46	55	MMS-HY-00554
AGR-2"-DN 38	1 1/2"	2"-11	53	70	MMS-HY-00555
AGR-2"-DN 51	2"	2"-11	54	70	MMS-HY-00556



BSPP MALE - 60° CONE - TAPERED

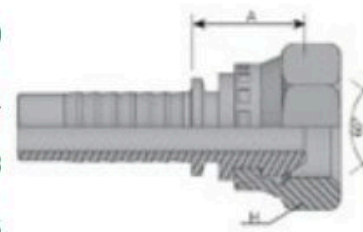
Description	Hoses	Thread	A mm	Hexagon	REF
AGR-K-1/8"-DN 05	3/16"	1/8"-28	22	12	MMS-HY-00557
AGR-K-1/8"-DN 06	1/4"	1/8"-28	22.5	12	MMS-HY-00558
AGR-K-1/4"-DN 05	3/16"	1/4"-19	15	22	MMS-HY-00559
AGR-K-1/4"-DN 06	1/4"	1/4"-19	27	15	MMS-HY-00560
AGR-K-1/4"-DN 08	5/16"	1/4"-19	27	15	MMS-HY-00561
AGR-K-1/4"-DN 10	3/8"	1/4"-19	28	15	MMS-HY-00562
AGR-K-3/8"-DN 06	1/4"	3/8"-19	28	19	MMS-HY-00563
AGR-K-3/8"-DN 08	5/16"	3/8"-19	28	19	MMS-HY-00564
AGR-K-3/8"-DN 10	3/8"	3/8"-19	28	19	MMS-HY-00565
AGR-K-3/8"-DN 12	1/2"	3/8"-19	28	19	MMS-HY-00566
AGR-K-1/2"-DN 10	3/8"	1/2"-14	34	22	MMS-HY-00567
AGR-K-1/2"-DN 12	1/2"	1/2"-14	34.5	22	MMS-HY-00568
AGR-K-1/2"-DN 16	5/8"	1/2"-14	34.5	24	MMS-HY-00569
AGR-K-3/4"-DN 16	5/8"	3/4"-14	36.5	27	MMS-HY-00570
AGR-K-3/4"-DN 19	3/4"	3/4"-14	37	27	MMS-HY-00571
AGR-K-1"-DN 19	3/4"	1"-11	45	36	MMS-HY-00572
AGR-K-1"-DN 25	1"	1"-11	46	36	MMS-HY-00573
AGR-K-1 1/4"-DN 25	1"	1 1/4"-11	45.5	46	MMS-HY-00574
AGR-K-1 1/4"-DN 31	1 1/4"	1 1/4"-11	46	46	MMS-HY-00575
AGR-K-1 1/2"-DN 31	1 1/4"	1 1/2"-11	47	50	MMS-HY-00576
AGR-K-1 1/2"-DN 38	1 1/2"	1 1/2"-11	47.3	50	MMS-HY-00577
AGR-K-2"-DN 51	2"	2"-11	57	65	MMS-HY-00578



HYDRAULIC CRIMP FITTINGS

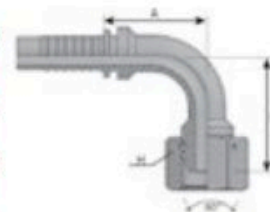
BSPP FEMALE - 60° CONE

Description	Hoses	Thread	A mm	Hexagon	REF
DKR-1/8"-DN 05	3/16"	1/8"-28	18	15	MMS-HY-00579
DKR-1/8"-DN 06	1/4"	1/8"-28	18	15	MMS-HY-00580
DKR-1/4"-DN 05	3/16"	1/4"-19	18	19	MMS-HY-00581
DKR-1/4"-DN 06	1/4"	1/4"-19	18	19	MMS-HY-00582
DKR-1/4"-DN 08	5/16"	1/4"-19	18	19	MMS-HY-00583
DKR-1/4"-DN 10	3/8"	1/4"-19	19	19	MMS-HY-00584
DKR-3/8"-DN 06	1/4"	3/8"-19	19	22	MMS-HY-00585
DKR-3/8"-DN 08	5/16"	3/8"-19	19	22	MMS-HY-00586
DKR-3/8"-DN 10	3/8"	3/8"-19	20	22	MMS-HY-00587
DKR-3/8"-DN 12	1/2"	3/8"-19	20	19	MMS-HY-00588
DKR-1/2"-DN 06	1/4"	1/2"-14	21	27	MMS-HY-00589
DKR-1/2"-DN 08	5/16"	1/2"-14	21	27	MMS-HY-00590
DKR-1/2"-DN 10	3/8"	1/2"-14	21	27	MMS-HY-00591
DKR-1/2"-DN 12	1/2"	1/2"-14	22	27	MMS-HY-00592
DKR-1/2"-DN 16	5/8"	1/2"-14	22	27	MMS-HY-00593
DKR-1/2"-DN 19	3/4"	1/2"-14	22.5	27	MMS-HY-00594
DKR-5/8"-DN 12	1/2"	5/8"-14	22	28	MMS-HY-00595
DKR-5/8"-DN 16	5/8"	5/8"-14	23	28	MMS-HY-00596
DKR-5/8"-DN 19	3/4"	5/8"-14	24	28	MMS-HY-00597
DKR-3/4"-DN 12	1/2"	3/4"-14	24	32	MMS-HY-00598
DKR-3/4"-DN 16	5/8"	3/4"-14	24	32	MMS-HY-00599
DKR-3/4"-DN 19	3/4"	3/4"-14	25	32	MMS-HY-00600
DKR-3/4"-DN 25	1"	3/4"-14	26	32	MMS-HY-00601
DKR-1"-DN 19	3/4"	1"-11	26	38	MMS-HY-00602
DKR-1"-DN 25	1"	1"-11	27	38	MMS-HY-00603
DKR-1 1/4"-DN 25	1"	1 1/4"-11	30	50	MMS-HY-00604
DKR-1 1/4"-DN 31	1 1/4"	1 1/4"-11	30	50	MMS-HY-00605
DKR-1 1/2"-DN 31	1 1/4"	1 1/2"-11	32	55	MMS-HY-00606
DKR-1 1/2"-DN 38	1 1/2"	1 1/2"-11	32	55	MMS-HY-00607
DKR-2"-DN 50	2"	2"	37	70	MMS-HY-00608

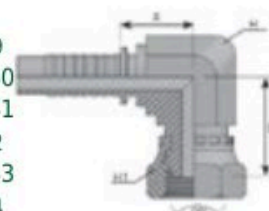


BSPP FEMALE - 60° CONE - 90° ELBOW

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKR-1/8"-90°-DN 05	3/16"	1/8"-28	23	29	15	MMS-HY-00609
DKR-1/8"-90°-DN 06	1/4"	1/8"-28	23	29	15	MMS-HY-00610
DKR-1/4"-90°-DN 05	3/16"	1/4"-19	23	29	19	MMS-HY-00611
DKR-1/4"-90°-DN 06	1/4"	1/4"-19	23	29	19	MMS-HY-00612
DKR-1/4"-90°-DN 08	5/16"	1/4"-19	31.5	33.5	19	MMS-HY-00613
DKR-1/4"-90°-DN 10	3/8"	1/4"-19	33	37	19	MMS-HY-00614
DKR-3/8"-90°-DN 06	1/4"	3/8"-19	23	32	22	MMS-HY-00615
DKR-3/8"-90°-DN 08	5/16"	3/8"-19	31.5	35.5	22	MMS-HY-00616
DKR-3/8"-90°-DN 10	3/8"	3/8"-19	33	38	22	MMS-HY-00617
DKR-3/8"-90°-DN 12	1/2"	3/8"-19	39	43	22	MMS-HY-00618
DKR-1/2"-90°-DN 06	1/4"	1/2"-14	31.5	30	27	MMS-HY-00619
DKR-1/2"-90°-DN 08	5/16"	1/2"-14	31.5	39	27	MMS-HY-00620
DKR-1/2"-90°-DN 10	3/8"	1/2"-14	33	42	27	MMS-HY-00621
DKR-1/2"-90°-DN 12	1/2"	1/2"-14	39	45	27	MMS-HY-00622
DKR-1/2"-90°-DN 16	5/8"	1/2"-14	49	54	27	MMS-HY-00623
DKR-1/2"-90°-DN 19	3/4"	1/2"-14	53.5	56	27	MMS-HY-00624
DKR-5/8"-90°-DN 12	1/2"	5/8"-14	39	51	28	MMS-HY-00625
DKR-5/8"-90°-DN 16	5/8"	5/8"-14	49	54	28	MMS-HY-00626
DKR-5/8"-90°-DN 19	3/4"	5/8"-14	53.5	56	28	MMS-HY-00627
DKR-3/4"-90°-DN 12	1/2"	3/4"-14	39	51	32	MMS-HY-00628
DKR-3/4"-90°-DN 16	5/8"	3/4"-14	49	56	32	MMS-HY-00629
DKR-3/4"-90°-DN 19	3/4"	3/4"-14	53.5	59	32	MMS-HY-00630
DKR-3/4"-90°-DN 25	1"	3/4"-14	68.5	72	32	MMS-HY-00631
DKR-1"-90°-DN 19	3/4"	1"-11	53.5	65	38	MMS-HY-00632
DKR-1"-90°-DN 25	1"	1"-11	73	72	38	MMS-HY-00633
DKR-1 1/4"-90°-DN 25	1"	1 1/4"-11	73	80	50	MMS-HY-00634
DKR-1 1/4"-90°-DN 31	1 1/4"	1 1/4"-11	89	93	50	MMS-HY-00635
DKR-1 1/2"-90°-DN 31	1 1/4"	1 1/2"-11	89	98.5	55	MMS-HY-00636
DKR-1 1/2"-90°-DN 38	1 1/2"	1 1/2"-11	101	114	55	MMS-HY-00637
DKR-2"-90°-DN 51	2"	2"-11	135	136	70	MMS-HY-00638

**BSPP FEMALE - 60° CONE - 90° ELBOW (COMPACT FORGED)**

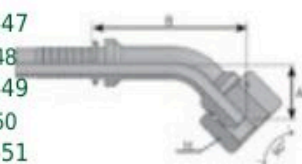
Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKR-1/4"-90°-DN 06K	1/4"	1/4"-19	19	26.7	14	MMS-HY-00639
DKR-3/8"-90°-DN 06K	1/4"	3/8"-19	21.5	28	19	MMS-HY-00640
DKR-3/8"-90°-DN 08K	5/16"	3/8"-19	21.5	28	19	MMS-HY-00641
DKR-3/8"-90°-DN 10K	3/8"	3/8"-19	21.5	28	19	MMS-HY-00642
DKR-1/2"-90°-DN 10K	3/8"	1/2"-14	24	32.5	22	MMS-HY-00643
DKR-1/2"-90°-DN 12K	1/2"	1/2"-14	24	32.5	22	MMS-HY-00644
DKR-3/4"-90°-DN 19K	3/4"	3/4"-14	25	39.5	27	MMS-HY-00645
DKR-1"-90°-DN 25K	1"	1"-11	32.5	43.5	33	MMS-HY-00646



HYDRAULIC CRIMP FITTINGS

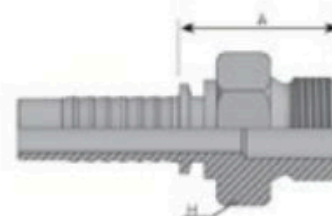
BSPP FEMALE - 60° CONE - 45° ELBOW

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKR-1/8"-45°-DN 05	3/16"	1/8"-28	40	17	15	MMS-HY-00647
DKR-1/8"-45°-DN 06	1/4"	1/8"-28	40	17	15	MMS-HY-00648
DKR-1/4"-45°-DN 05	3/16"	1/4"-19	40	17	19	MMS-HY-00649
DKR-1/4"-45°-DN 06	1/4"	1/4"-19	40	17	19	MMS-HY-00650
DKR-1/4"-45°-DN 08	5/16"	1/4"-19	51	20	19	MMS-HY-00651
DKR-1/4"-45°-DN 10	3/8"	1/4"-19	54	19	19	MMS-HY-00652
DKR-3/8"-45°-DN 06	1/4"	3/8"-19	43	20	22	MMS-HY-00653
DKR-3/8"-45°-DN 08	5/16"	3/8"-19	52	21	22	MMS-HY-00654
DKR-3/8"-45°-DN 10	3/8"	3/8"-19	55	20	22	MMS-HY-00655
DKR-3/8"-45°-DN 12	1/2"	3/8"-19	63	20	22	MMS-HY-00656
DKR-1/2"-45°-DN 06	1/4"	1/2"-14	55	24	27	MMS-HY-00657
DKR-1/2"-45°-DN 08	5/16"	1/2"-14	55	24	27	MMS-HY-00658
DKR-1/2"-45°-DN 10	3/8"	1/2"-14	58	23	27	MMS-HY-00659
DKR-1/2"-45°-DN 12	1/2"	1/2"-14	65	23	27	MMS-HY-00660
DKR-1/2"-45°-DN 16	5/8"	1/2"-14	63	25	27	MMS-HY-00661
DKR-1/2"-45°-DN 19	3/4"	1/2"-14	62	28	27	MMS-HY-00662
DKR-5/8"-45°-DN 12	1/2"	5/8"-14	65	23	28	MMS-HY-00663
DKR-5/8"-45°-DN 16	5/8"	5/8"-14	64	25	28	MMS-HY-00664
DKR-5/8"-45°-DN 19	3/4"	5/8"-14	63	29	28	MMS-HY-00665
DKR-3/4"-45°-DN 12	1/2"	3/4"-14	66	21	32	MMS-HY-00666
DKR-3/4"-45°-DN 16	5/8"	3/4"-14	64	26	32	MMS-HY-00667
DKR-3/4"-45°-DN 19	3/4"	3/4"-14	63	29	32	MMS-HY-00668
DKR-3/4"-45°-DN 25	1"	3/4"-14	88	39	32	MMS-HY-00669
DKR-1"-45°-DN 19	3/4"	1"-11	65	31	38	MMS-HY-00670
DKR-1"-45°-DN 25	1"	1"-11	90	41	38	MMS-HY-00671
DKR-1 1/4"-45°-DN 25	1"	1 1/4"-11	93	44	50	MMS-HY-00672
DKR-1 1/4"-45°-DN 31	1 1/4"	1 1/4"-11	102	44	50	MMS-HY-00673
DKR-1 1/2"-45°-DN 31	1 1/4"	1 1/2"-11	103	45	55	MMS-HY-00674
DKR-1 1/2"-45°-DN 38	1 1/2"	1 1/2"-11	118	45	55	MMS-HY-00675
DKR-2"-45°-DN 51	2"	2"-11	145	55	70	MMS-HY-00676

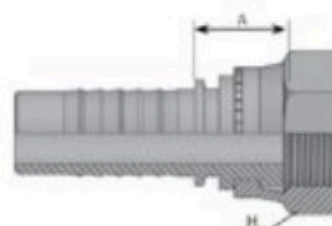


HYDRAULIC PRESS COUPLING BSPP FLAT SEALING - MALE

Description	Hoses	Thread	A mm	Hexagon	REF
AGR-F-1/4"-DN 06	1/4"	1/4"-19	27	19	MMS-HY-00677
AGR-F-3/8"-DN 06	1/4"	3/8"-19	29	22	MMS-HY-00678
AGR-F-3/8"-DN 08	5/16"	3/8"-19	29	22	MMS-HY-00679
AGR-F-3/8"-DN 10	3/8"	3/8"-19	28.5	22	MMS-HY-00680
AGR-F-1/2"-DN 10	3/8"	1/2"-14	32	27	MMS-HY-00681
AGR-F-1/2"-DN 12	1/2"	1/2"-14	32	27	MMS-HY-00682
AGR-F-5/8"-DN 12	1/2"	5/8"-14	35	30	MMS-HY-00683
AGR-F-5/8"-DN 16	5/8"	5/8"-14	35	30	MMS-HY-00684
AGR-F-3/4"-DN 12	1/2"	3/4"-14	36	32	MMS-HY-00685
AGR-F-3/4"-DN 16	5/8"	3/4"-14	36	32	MMS-HY-00686
AGR-F-3/4"-DN 19	3/4"	3/4"-14	37	32	MMS-HY-00687
AGR-F-1"-DN 19	3/4"	1"-11	40	38	MMS-HY-00688
AGR-F-1"-DN 25	1"	1"-11	39.5	38	MMS-HY-00689
AGR-F-1 1/4"-DN 31	1 1/4"	1 1/4"-11	46	50	MMS-HY-00690
AGR-F-1 1/2"-DN 38	1 1/2"	1 1/2"-11	43	55	MMS-HY-00691

**HYDRAULIC PRESS COUPLING BSPP FLAT SEALING - FEMALE**

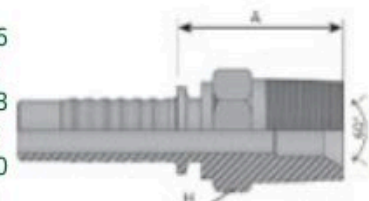
Description	Hoses	Thread	A mm	Hexagon	REF
DKR-F-1/4"-DN 06	1/4"	1/4"-19	14	19	MMS-HY-00692
DKR-F-3/8"-DN 06	1/4"	3/8"-19	15	22	MMS-HY-00693
DKR-F-3/8"-DN 08	5/16"	3/8"-19	15	22	MMS-HY-00694
DKR-F-3/8"-DN 10	3/8"	3/8"-19	16	22	MMS-HY-00695
DKR-F-1/2"-DN 10	3/8"	1/2"-14	17	27	MMS-HY-00696
DKR-F-1/2"-DN 12	1/2"	1/2"-14	17	27	MMS-HY-00697
DKR-F-5/8"-DN 12	1/2"	5/8"-14	17	28	MMS-HY-00698
DKR-F-3/4"-DN 12	1/2"	3/4"-14	19	32	MMS-HY-00699
DKR-F-5/8"-DN 16	5/8"	5/8"-14	17	28	MMS-HY-00700
DKR-F-3/4"-DN 16	5/8"	3/4"-14	20	32	MMS-HY-00701
DKR-F-3/4"-DN 19	3/4"	3/4"-14	21	32	MMS-HY-00702
DKR-F-1"-DN 19	3/4"	1"-11	22	38	MMS-HY-00703
DKR-F-1"-DN 25	1"	1"-11	23	38	MMS-HY-00704
DKR-F-1 1/4"-DN 31	1 1/4"	1 1/4"-11	26	50	MMS-HY-00705



HYDRAULIC CRIMP FITTINGS

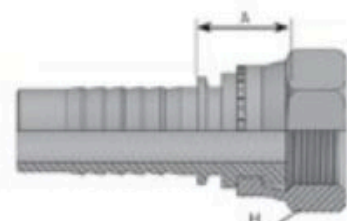
NPTF MALE - 60° CONE

Description	Hoses	Thread	A mm	Hexagon	REF
AGN-1/8"-DN 05	3/16"	1/8"-27 NPT	22	12	MMS-HY-00706
AGN-1/8"-DN 06	1/4"	1/8"-27 NPT	22.5	12	MMS-HY-00707
AGN-1/4"-DN 05	3/16"	1/4"-18 NPT	22	15	MMS-HY-00708
AGN-1/4"-DN 06	1/4"	1/4"-18 NPT	27	15	MMS-HY-00709
AGN-1/4"-DN 08	5/16"	1/4"-18 NPT	27	15	MMS-HY-00710
AGN-1/4"-DN 10	3/8"	1/4"-18 NPT	28	15	MMS-HY-00711
AGN-3/8"-DN 06	1/4"	3/8"-18 NPT	28	19	MMS-HY-00712
AGN-3/8"-DN 08	5/16"	3/8"-18 NPT	28	19	MMS-HY-00713
AGN-3/8"-DN 10	3/8"	3/8"-18 NPT	28	19	MMS-HY-00714
AGN-3/8"-DN 12	1/2"	3/8"-18 NPT	28	19	MMS-HY-00715
AGN-1/2"-DN 06	1/4"	1/2"-14 NPT	34	22	MMS-HY-00716
AGN-1/2"-DN 08	5/16"	1/2"-14 NPT	28	22	MMS-HY-00717
AGN-1/2"-DN 10	3/8"	1/2"-14 NPT	34	22	MMS-HY-00718
AGN-1/2"-DN 12	1/2"	1/2"-14 NPT	34.5	22	MMS-HY-00719
AGN-1/2"-DN 16	5/8"	1/2"-14 NPT	34.5	24	MMS-HY-00720
AGN-1/2"-DN 19	3/4"	1/2"-14 NPT	34.5	24	MMS-HY-00721
AGN-3/4"-DN 12	1/2"	3/4"-14 NPT	34.5	27	MMS-HY-00722
AGN-3/4"-DN 16	5/8"	3/4"-14 NPT	36.5	27	MMS-HY-00723
AGN-3/4"-DN 19	3/4"	3/4"-14 NPT	37	27	MMS-HY-00724
AGN-3/4"-DN 25	1"	3/4"-14 NPT	38	32	MMS-HY-00725
AGN-1"-DN 19	3/4"	1"-11.5 NPT	45	36	MMS-HY-00726
AGN-1"-DN 25	1"	1"-11.5 NPT	46	36	MMS-HY-00727
AGN-1 1/4"-DN 25	1"	1 1/4"-11.5 NPT	45.5	46	MMS-HY-00728
AGN-1 1/4"-DN 31	1 1/4"	1 1/4"-11.5 NPT	46	46	MMS-HY-00729
AGN-1 1/2"-DN 31	1 1/4"	1 1/2"-11.5 NPT	47	50	MMS-HY-00730
AGN-1 1/2"-DN 38	1 1/2"	1 1/2"-11.5 NPT	47.3	50	MMS-HY-00731
AGN-2"-DN 51	2"	2"-11.5 NPT	57	65	MMS-HY-00732



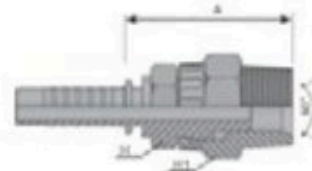
NPSM FEMALE - 60° CONE

Description	Hoses	Thread	A mm	Hexagon	REF
DKR-NPT-1/4"-DN 06	1/4"	1/4"-18 NPT	24	19	MMS-HY-00733
DKR-NPT-3/8"-DN 10	3/8"	3/8"-18 NPT	26.5	22	MMS-HY-00734
DKR-NPT-1/2"-DN 12	1/2"	1/2"-14 NPT	29	22	MMS-HY-00735
DKR-NPT-3/4"-DN 19	3/4"	3/4"-14 NPT	37	27	MMS-HY-00736
DKR-NPT-1"-DN 25	1"	1"-11.5 NPT	40.5	32	MMS-HY-00737
DKR-NPT-1 1/4"-DN 31	1 1/4"	1 1/4"-11.5 NPT	43	41	MMS-HY-00738

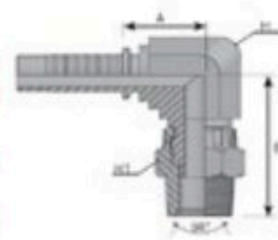


HYDRAULIC PRESS COUPLING NPTF - MALE - ROTATING

Description	Hoses	Thread	A mm	Hexagon	H1	REF
AGN-1/4"-DN 06-SW	1/4"	1/4"-18	53	14	17	MMS-HY-00739
AGN-3/8"-DN 06-SW	1/4"	3/8"-18	58.4	17	22	MMS-HY-00740
AGN-1/4"-DN 10-SW	3/8"	1/4"-18	56	17	17	MMS-HY-00741
AGN-3/8"-DN 10-SW	3/8"	3/8"-18	58.4	17	22	MMS-HY-00742
AGN-1/2"-DN 10-SW	3/8"	1/2"-14	63	22	27	MMS-HY-00743
AGN-3/8"-DN 12-SW	1/2"	3/8"-18	59.4	22	22	MMS-HY-00744
AGN-1/2"-DN 12-SW	1/2"	1/2"-14	63.5	22	27	MMS-HY-00745
AGN-3/4"-DN 12-SW	1/2"	3/4"-14	71.5	27	32	MMS-HY-00746
AGN-3/4"-DN 19-SW	3/4"	3/4"-14	72	32	32	MMS-HY-00747
AGN-1"-DN 25-SW	1"	1"-11.5	79.4	38	38	MMS-HY-00748

**HYDRAULIC PRESS COUPLING NPTF - MALE - 90° - ROTATING**

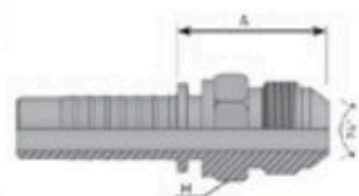
Description	Hoses	Thread	A mm	B mm	Hexagon	H1	REF
AGN-1/4"-90°-DN 06K-SW	1/4"	1/4"-18	23	56	22	17	MMS-HY-00749
AGN-3/8"-90°-DN 06K-SW	1/4"	3/8"-18	23	58.4	22	22	MMS-HY-00750
AGN-1/4"-90°-DN 10K-SW	3/8"	1/4"-18	23	56	22	17	MMS-HY-00751
AGN-3/8"-90°-DN 10K-SW	3/8"	3/8"-18	23	58.4	22	22	MMS-HY-00752
AGN-1/2"-90°-DN 10K-SW	3/8"	1/2"-14	23	62.3	22	22	MMS-HY-00753
AGN-3/8"-90°-DN 12K-SW	1/2"	3/8"-18	23.5	58.4	22	27	MMS-HY-00754
AGN-1/2"-90°-DN 12K-SW	1/2"	1/2"-14	23.5	62.3	22	27	MMS-HY-00755
AGN-3/4"-90°-DN 12K-SW	1/2"	3/4"-14	25	72	27	32	MMS-HY-00756
AGN-3/4"-90°-DN 19K-SW	3/4"	3/4"-14	25	72	27	32	MMS-HY-00757
AGN-1"-90°-DN 25K-SW	1"	1"-11.5	32.5	77.9	33	38	MMS-HY-00758



HYDRAULIC CRIMP FITTINGS

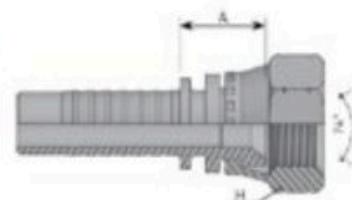
JIC 37° - MALE

Description	Hoses	Thread	A mm	Hexagon	REF
AGJ-7/16"-DN 05	3/16"	7/16"-20	27	12	MMS-HY-00759
AGJ-7/16"-DN 06	1/4"	7/16"-20	27	12	MMS-HY-00760
AGJ-1/2"-DN 05	3/16"	1/2"-20	27	14	MMS-HY-00761
AGJ-1/2"-DN 06	1/4"	1/2"-20	27	14	MMS-HY-00762
AGJ-1/2"-DN 08	5/16"	1/2"-20	27	14	MMS-HY-00763
AGJ-9/16"-DN 06	1/4"	9/16"-18	28	15	MMS-HY-00764
AGJ-9/16"-DN 08	5/16"	9/16"-18	28	15	MMS-HY-00765
AGJ-9/16"-DN 10	3/8"	9/16"-18	28	15	MMS-HY-00766
AGJ-5/16"-DN 16	5/8"	5/16"-18	29.5	17	MMS-HY-00767
AGJ-5/16"-DN 19	3/4"	5/16"-16	29.5	19	MMS-HY-00768
AGJ-5/8"-DN 10	3/8"	5/8"-18	29.5	17	MMS-HY-00769
AGJ-3/4"-DN 10	3/8"	3/4"-16	30.5	19	MMS-HY-00770
AGJ-3/4"-DN 12	1/2"	3/4"-16	31	19	MMS-HY-00771
AGJ-7/8"-DN 10	3/8"	7/8"-14	34.5	24	MMS-HY-00772
AGJ-7/8"-DN 12	1/2"	7/8"-14	35	24	MMS-HY-00773
AGJ-7/8"-DN 16	5/8"	7/8"-14	35	24	MMS-HY-00774
AGJ-7/8"-DN 19	3/4"	7/8"-14	37	27	MMS-HY-00775
AGJ-1 1/16"-DN 12	1/2"	1 1/16"-12	39.5	27	MMS-HY-00776
AGJ-1 1/16"-DN 16	5/8"	1 1/16"-12	39.5	27	MMS-HY-00777
AGJ-1 1/16"-DN 19	3/4"	1 1/16"-12	40.5	27	MMS-HY-00778
AGJ-1 3/16"-DN 19	3/4"	1 3/16"-12	41.5	32	MMS-HY-00779
AGJ-1 5/16"-DN 19	3/4"	1 5/16"-12	41.5	34	MMS-HY-00780
AGJ-1 1/16"-DN 25	1"	1 1/16"-12	41.5	32	MMS-HY-00781
AGJ-1 5/16"-DN 25	1"	1 5/16"-12	42.5	34	MMS-HY-00782
AGJ-1 5/8"-DN 25	1"	1 5/8"-12	45	42	MMS-HY-00783
AGJ-1 5/8"-DN 31	1 1/4"	1 5/8"-12	45.5	42	MMS-HY-00784
AGJ-1 7/8"-DN 31	1 1/4"	1 7/8"-12	52.5	50	MMS-HY-00785
AGJ-1 7/8"-DN 38	1 1/2"	1 7/8"-12	52.5	50	MMS-HY-00786
AGJ-2 1/2"-DN 51	2"	2 1/2"-12	65	62	MMS-HY-00787



JIC 37° - FEMALE STRAIGHT

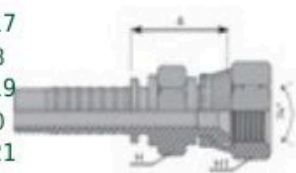
Description	Hoses	Thread	A mm	Hexagon	REF
DKJ-7/16"-DN 05	3/16"	7/16"-20	15	15	MMS-HY-00788
DKJ-7/16"-DN 06	1/4"	7/16"-20	15	15	MMS-HY-00789
DKJ-1/2"-DN 05	3/16"	1/2"-20	15	17	MMS-HY-00790
DKJ-1/2"-DN 06	1/4"	1/2"-20	16	17	MMS-HY-00791
DKJ-1/2"-DN 08	5/16"	1/2"-20	16	17	MMS-HY-00792
DKJ-9/16"-DN 06	1/4"	9/16"-18	16	19	MMS-HY-00793
DKJ-9/16"-DN 08	5/16"	9/16"-18	16	19	MMS-HY-00794
DKJ-9/16"-DN 10	3/8"	9/16"-18	16.5	19	MMS-HY-00795
DKJ-5/8"-DN 08	5/16"	5/8"-18	17	22	MMS-HY-00796
DKJ-5/8"-DN 10	3/8"	5/8"-18	17	22	MMS-HY-00797
DKJ-3/4"-DN 08	5/16"	3/4"-16	17	24	MMS-HY-00798
DKJ-3/4"-DN 10	3/8"	3/4"-16	17	24	MMS-HY-00799
DKJ-3/4"-DN 12	1/2"	3/4"-16	18	24	MMS-HY-00800
DKJ-7/8"-DN 10	3/8"	7/8"-14	19	27	MMS-HY-00801
DKJ-7/8"-DN 12	1/2"	7/8"-14	19	27	MMS-HY-00802
DKJ-7/8"-DN 16	5/8"	7/8"-14	19.5	27	MMS-HY-00803
DKJ-7/8"-DN 19	3/4"	7/8"-14	20	27	MMS-HY-00804
DKJ-1 1/16"-DN 12	1/2"	1 1/16"-12	22	32	MMS-HY-00805
DKJ-1 1/16"-DN 16	5/8"	1 1/16"-12	22.5	32	MMS-HY-00806
DKJ-1 1/16"-DN 19	3/4"	1 1/16"-12	23	32	MMS-HY-00807
DKJ-1 3/16"-DN 19	3/4"	1 3/16"-12	23	36	MMS-HY-00808
DKJ-1 5/16"-DN 19	3/4"	1 5/16"-12	23	41	MMS-HY-00809
DKJ-1 1/16"-DN 25	1"	1 1/16"-12	24	32	MMS-HY-00810
DKJ-1 5/16"-DN 25	1"	1 5/16"-12	24.5	41	MMS-HY-00811
DKJ-1 5/8"-DN 25	1"	1 5/8"-12	28.5	50	MMS-HY-00812
DKJ-1 5/8"-DN 31	1 1/4"	1 5/8"-12	29	50	MMS-HY-00813
DKJ-1 7/8"-DN 31	1 1/4"	1 7/8"-12	31	55	MMS-HY-00814
DKJ-1 7/8"-DN 38	1 1/2"	1 7/8"-12	31	55	MMS-HY-00815
DKJ-2 1/2"-DN51	2"	2 1/2"-12	31	70	MMS-HY-00816



HYDRAULIC CRIMP FITTINGS

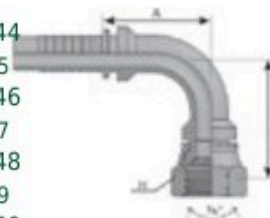
HYDRAULIC PRESS COUPLING JIC 37° - FEMALE - DOUBLE HEXAGON

Description	Hoses	Thread	A mm	Hexagon	H1	REF
DKJ-7/16"-DN 06-HEX	1/4"	7/16"-20	23.5	14	15	MMS-HY-00817
DKJ-1/2"-DN 06-HEX	1/4"	1/2"-20	24	14	17	MMS-HY-00818
DKJ-9/16"-DN 06-HEX	1/4"	9/16"-18	25.7	17	19	MMS-HY-00819
DKJ-1/2"-DN 08-HEX	5/16"	1/2"-20	-	-	-	MMS-HY-00820
DKJ-9/16"-DN 08-HEX	5/16"	9/16"-18	25.2	17	19	MMS-HY-00821
DKJ-1/2"-DN 10-HEX	3/8"	1/2"-20	22.5	17	17	MMS-HY-00822
DKJ-9/16"-DN 10-HEX	3/8"	9/16"-18	25.2	17	19	MMS-HY-00823
DKJ-3/4"-DN 10-HEX	3/8"	3/4"-16	27.3	19	24	MMS-HY-00824
DKJ-7/8"-DN 10-HEX	3/8"	7/8"-14	28.5	22	27	MMS-HY-00825
DKJ-1 1/16"-DN 10-HEX	3/8"	1 1/16"-12	33.5	27	32	MMS-HY-00826
DKJ-9/16"-DN 12-HEX	1/2"	9/16"-18	23.5	19	19	MMS-HY-00827
DKJ-3/4"-DN 12-HEX	1/2"	3/4"-16	27.8	22	24	MMS-HY-00828
DKJ-7/8"-DN 12-HEX	1/2"	7/8"-14	29.5	22	27	MMS-HY-00829
DKJ-1 1/16"-DN 12-HEX	1/2"	1 1/16"-12	34	27	32	MMS-HY-00830
DKJ-1 5/16"-DN 12-HEX	1/2"	1 5/16"-12	34	27	32	MMS-HY-00831
DKJ-7/8"-DN 16-HEX	5/8"	7/8"-14	29.5	24	27	MMS-HY-00832
DKJ-1 1/16"-DN 16-HEX	5/8"	1 1/16"-12	34	27	32	MMS-HY-00833
DKJ-1 3/16"-DN 16-HEX	5/8"	1 3/16"-12	32.5	27	32	MMS-HY-00834
DKJ-7/8"-DN 19-HEX	3/4"	7/8"-14	35.3	27	27	MMS-HY-00835
DKJ-1 1/16"-DN 19-HEX	3/4"	1 1/16"-12	35	27	32	MMS-HY-00836
DKJ-1 3/16"-DN 19-HEX	3/4"	1 3/16"-12	31	30	36	MMS-HY-00837
DKJ-1 5/16"-DN 19-HEX	3/4"	1 5/16"-12	36	32	38	MMS-HY-00838
DKJ-1 1/16"-DN 25-HEX	1"	1 1/16"-12	38	32	32	MMS-HY-00839
DKJ-1 3/16"-DN 25-HEX	1"	1 3/16"-12	36.1	32	36	MMS-HY-00840
DKJ-1 5/16"-DN 25-HEX	1"	1 5/16"-12	36	32	41	MMS-HY-00841
DKJ-1 5/8"-DN 25-HEX	1"	1 5/8"-12	-	-	-	MMS-HY-00842
DKJ-1 5/8"-DN 31-HEX	1 1/4"	1 5/8"-12	49.6	41	50	MMS-HY-00843



JIC 37° - FEMALE - 90° ELBOW

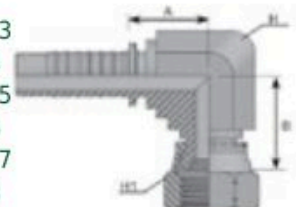
Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKJ-7/16"-90°-DN 05	3/16"	7/16"-20	23	26	15	MMS-HY-00844
DKJ-7/16"-90°-DN 06	1/4"	7/16"-20	23	26	15	MMS-HY-00845
DKJ-1/2"-90°-DN 05	3/16"	1/2"-20	23	27	17	MMS-HY-00846
DKJ-1/2"-90°-DN 06	1/4"	1/2"-20	23	27	17	MMS-HY-00847
DKJ-1/2"-90°-DN 08	5/16"	1/2"-20	31.5	32	17	MMS-HY-00848
DKJ-9/16"-90°-DN 06	1/4"	9/16"-18	23	27	19	MMS-HY-00849
DKJ-9/16"-90°-DN 08	5/16"	9/16"-18	31.5	32	19	MMS-HY-00850
DKJ-5/8"-90°-DN 08	5/16"	5/8"-18	31.5	32.5	22	MMS-HY-00851
DKJ-3/4"-90°-DN 08	5/16"	3/4"-16	31.5	32.5	24	MMS-HY-00852
DKJ-9/16"-90°-DN 10	3/8"	9/16"-18	33	35	19	MMS-HY-00853
DKJ-5/8"-90°-DN 10	3/8"	5/8"-18	33	35.5	22	MMS-HY-00854
DKJ-3/4"-90°-DN 10	3/8"	3/4"-16	33	36.5	24	MMS-HY-00855
DKJ-3/4"-90°-DN 12	1/2"	3/4"-16	39	41	24	MMS-HY-00856
DKJ-7/8"-90°-DN 10	3/8"	7/8"-14	33	39.5	27	MMS-HY-00857
DKJ-7/8"-90°-DN 12	1/2"	7/8"-14	39	42.5	27	MMS-HY-00858
DKJ-7/8"-90°-DN 16	5/8"	7/8"-14	49	50	27	MMS-HY-00859
DKJ-1 1/16"-90°-DN 12	1/2"	1 1/16"-12	39	50	32	MMS-HY-00860
DKJ-1 1/16"-90°-DN 16	5/8"	1 1/16"-12	49	55	32	MMS-HY-00861
DKJ-7/8"-90°-DN 19	3/4"	7/8"-14	53.5	58	27	MMS-HY-00862
DKJ-1 1/16"-90°-DN 19	3/4"	1 1/16"-12	53.5	58	32	MMS-HY-00863
DKJ-1 3/16"-90°-DN 19	3/4"	1 3/16"-12	53.5	61	36	MMS-HY-00864
DKJ-1 5/16"-90°-DN 19	3/4"	1 5/16"-12	53.5	62.5	41	MMS-HY-00865
DKJ-1 1/16"-90°-DN 25	1"	1 1/16"-12	69	80	32	MMS-HY-00866
DKJ-1 5/16"-90°-DN 25	1"	1 5/16"-12	73	69.5	41	MMS-HY-00867
DKJ-1 5/8"-90°-DN 25	1"	1 5/8"-12	73	78.5	50	MMS-HY-00868
DKJ-1 5/8"-90°-DN 31	1 1/4"	1 5/8"-12	89	91.5	50	MMS-HY-00869
DKJ-1 7/8"-90°-DN 31	1 1/4"	1 7/8"-12	89	99	55	MMS-HY-00870
DKJ-1 7/8"-90°-DN 38	1 1/2"	1 7/8"-12	101	112.5	55	MMS-HY-00871
DKJ-2 1/2"-90°-DN 51	2"	2 1/2"-12	139	128	70	MMS-HY-00872



HYDRAULIC CRIMP FITTINGS

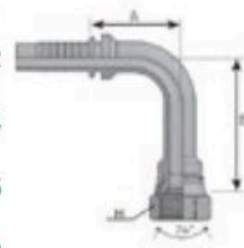
JIC 37° - FEMALE - 90° ELBOW (COMPACT FORGED)

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKJ-7/16"-90°-DN 06K	1/4"	7/16"-20	19	21.5	14	MMS-HY-00873
DKJ-1/2"-90°-DN 06K	1/4"	1/2"-20	19	21.5	14	MMS-HY-00874
DKJ-9/16"-90°-DN 06K	1/4"	9/16"-18	19	23	14	MMS-HY-00875
DKJ-9/16"-90°-DN 10K	3/8"	9/16"-18	22	25	19	MMS-HY-00876
DKJ-3/4"-90°-DN 10K	3/8"	3/4"-16	22.5	28	19	MMS-HY-00877
DKJ-3/4"-90°-DN 12K	1/2"	3/4"-16	24	28	22	MMS-HY-00878
DKJ-1 1/16"-90°-DN 19K	3/4"	1 1/16"-12	25	36	27	MMS-HY-00879
DKJ-1 5/16"-90°-DN 25K	1"	1 5/16"-12	32.5	41.5	33	MMS-HY-00880



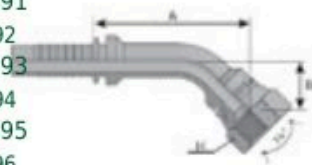
JIC 37° - FEMALE - 90° ELBOW (LONG DROP)

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKJ-7/16"-90°-DN 06L	1/4"	7/16"-20	28.5	45	17	MMS-HY-00881
DKJ-1/2"-90°-DN 06L	1/4"	1/2"-20	28.5	45	17	MMS-HY-00882
DKJ-9/16"-90°-DN 06L	1/4"	9/16"-18	29.5	55.5	19	MMS-HY-00883
DKJ-9/16"-90°-DN 10L	3/8"	9/16"-18	35.5	55	19	MMS-HY-00884
DKJ-3/4"-90°-DN 10L	3/8"	3/4"-16	36.5	61.5	22	MMS-HY-00885
DKJ-3/4"-90°-DN 12L	1/2"	3/4"-16	40.5	62.5	22	MMS-HY-00886
DKJ-7/8"-90°-DN 12L	1/2"	7/8"-14	45	65	27	MMS-HY-00887
DKJ-7/8"-90°-DN 16L	5/8"	7/8"-14	53.5	65.5	27	MMS-HY-00888
DKJ-1 1/16"-90°-DN 19L	3/4"	1 1/16"-12	62	94.5	32	MMS-HY-00889
DKJ-1 5/16"-90°-DN 25L	1"	1 5/16"-12	77	110	38	MMS-HY-00890



JIC 37° - FEMALE - 45° ELBOW

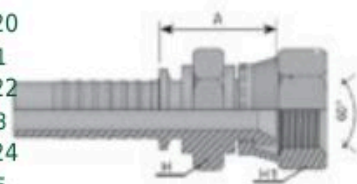
Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKJ-7/16"-45°-DN 05	3/16"	7/16"-20	39	15	15	MMS-HY-00891
DKJ-1/2"-45°-DN 05	3/16"	1/2"-20	40	17	17	MMS-HY-00892
DKJ-7/16"-45°-DN 06	1/4"	7/16"-20	38	15	15	MMS-HY-00893
DKJ-1/2"-45°-DN 06	1/4"	1/2"-20	40	17	17	MMS-HY-00894
DKJ-9/16"-45°-DN 06	1/4"	9/16"-18	39.5	16.5	19	MMS-HY-00895
DKJ-1/2"-45°-DN 08	5/16"	1/2"-20	40	17	17	MMS-HY-00896
DKJ-9/16"-45°-DN 08	5/16"	9/16"-18	49.5	18.5	19	MMS-HY-00897
DKJ-5/8"-45°-DN 08	5/16"	5/8"-18	50	19	22	MMS-HY-00898
DKJ-3/4"-45°-DN 08	5/16"	3/4"-16	5.5	19.5	24	MMS-HY-00899
DKJ-9/16"-45°-DN 10	3/8"	9/16"-18	53	18	19	MMS-HY-00900
DKJ-5/8"-45°-DN 10	3/8"	5/8"-18	54	19	22	MMS-HY-00901
DKJ-3/4"-45°-DN 10	3/8"	3/4"-16	54	19	24	MMS-HY-00902
DKJ-7/8"-45°-DN 10	3/8"	7/8"-14	56	21	27	MMS-HY-00903
DKJ-3/4"-45°-DN 12	1/2"	3/4"-16	62	20	24	MMS-HY-00904
DKJ-7/8"-45°-DN 12	1/2"	7/8"-14	63	21	27	MMS-HY-00905
DKJ-1 1/16"-45°-DN 12	1/2"	1 1/16"-12	64	22	32	MMS-HY-00906
DKJ-7/8"-45°-DN 16	5/8"	7/8"-14	60	22	27	MMS-HY-00907
DKJ-1 1/16"-45°-DN 16	5/8"	1 1/16"-12	63	25	32	MMS-HY-00908
DKJ-7/8"-45°-DN 19	3/4"	7/8"-14	62	29	27	MMS-HY-00909
DKJ-1 1/16"-45°-DN 19	3/4"	1 1/16"-12	62	29	32	MMS-HY-00910
DKJ-1 3/16"-45°-DN 19	3/4"	1 3/16"-12	63	29	36	MMS-HY-00911
DKJ-1 5/16"-45°-DN 19	3/4"	1 5/16"-12	63	29	41	MMS-HY-00912
DKJ-1 1/16"-45°-DN 25	1"	1 1/16"-12	100	39.5	32	MMS-HY-00913
DKJ-1 5/16"-45°-DN 25	1"	1 5/16"-12	88.5	39.5	41	MMS-HY-00914
DKJ-1 5/8"-45°-DN 25	1"	1 5/8"-12	89.5	38.5	50	MMS-HY-00915
DKJ-1 5/8"-45°-DN 31	1 1/4"	1 5/8"-12	101	44	50	MMS-HY-00916
DKJ-1 7/8"-45°-DN 31	1 1/4"	1 7/8"-12	103	45	55	MMS-HY-00917
DKJ-1 7/8"-45°-DN 38	1 1/2"	1 7/8"-12	118	45	55	MMS-HY-00918
DKJ-2 1/2"-45°-DN 51	2"	2 1/2"-12	163	62	70	MMS-HY-00919



HYDRAULIC CRIMP FITTINGS

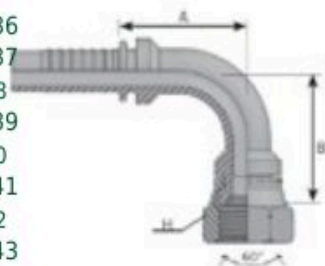
HYDRAULIC PRESS COUPLING JIS KOMA FEMALE

Description	Hoses	Thread	A mm	Hexagon	H1	REF
DKJ-KOMATSU-M14X1.5-DN 06	1/4"	M14 x 1.5	24.2	17	19	MMS-HY-00920
DKJ-KOMATSU-M16x1.5-DN 06	1/4"	M16 x 1.5	24.2	19	22	MMS-HY-00921
DKJ-KOMATSU-M16x1.5-DN 08	5/16"	M16 x 1.5	24.2	19	22	MMS-HY-00922
DKJ-KOMATSU-M14X1.5-DN 10	3/8"	M14 x 1.5	24.2	17	19	MMS-HY-00923
DKJ-KOMATSU-M16x1.5-DN 10	3/8"	M16 x 1.5	24.2	19	22	MMS-HY-00924
DKJ-KOMATSU-M18x1.5-DN 10	3/8"	M18 x 1.5	25.8	24	24	MMS-HY-00925
DKJ-KOMATSU-M18x1.5-DN 12	1/2"	M18 x 1.5	26.3	24	24	MMS-HY-00926
DKJ-KOMATSU-M20x1.5-DN 12	1/2"	M20 x 1.5	29	27	27	MMS-HY-00927
DKJ-KOMATSU-M22x1.5-DN 12	1/2"	M22 x 1.5	29	27	27	MMS-HY-00928
DKJ-KOMATSU-M24x1.5-DN 12	1/2"	M24 x 1.5	32	32	32	MMS-HY-00929
DKJ-KOMATSU-M22x1.5-DN 16	5/8"	M22 x 1.5	29	27	27	MMS-HY-00930
DKJ-KOMATSU-M24x1.5-DN 16	5/8"	M24 x 1.5	32.5	32	32	MMS-HY-00931
DKJ-KOMATSU-M30x1.5-DN 19	3/4"	M30 x 1.5	32.5	36	36	MMS-HY-00932
DKJ-KOMATSU-M33x1.5-DN 25	1"	M33 x 1.5	34.6	41	41	MMS-HY-00933
DKJ-KOMATSU-M36x1.5-DN 31	1 1/4"	M36 x 1.5	37.5	46	46	MMS-HY-00934
DKJ-KOMATSU-M42x1.5-DN 38	1 1/2"	M42 x 1.5	36.1	50	50	MMS-HY-00935



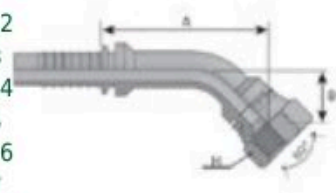
HYDRAULIC PRESS COUPLING JIS KOMA FEMALE - 90°

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKJ-KOMATSU-M14X1.5-90°-DN 06	1/4"	M14 x 1.5	23	27	19	MMS-HY-00936
DKJ-KOMATSU-M16x1.5-90°-DN 06	1/4"	M16 x 1.5	23	27	22	MMS-HY-00937
DKJ-KOMATSU-M16x1.5-90°-DN 08	5/16"	M16 x 1.5	31.5	32	22	MMS-HY-00938
DKJ-KOMATSU-M14X1.5-90°-DN 10	3/8"	M14 x 1.5	33	35	19	MMS-HY-00939
DKJ-KOMATSU-M16x1.5-90°-DN 10	3/8"	M16 x 1.5	33	35	22	MMS-HY-00940
DKJ-KOMATSU-M18x1.5-90°-DN 10	3/8"	M18 x 1.5	33	36.5	24	MMS-HY-00941
DKJ-KOMATSU-M18x1.5-90°-DN 12	1/2"	M18 x 1.5	39	41	24	MMS-HY-00942
DKJ-KOMATSU-M20x1.5-90°-DN 12	1/2"	M20 x 1.5	39	43.5	27	MMS-HY-00943
DKJ-KOMATSU-M22x1.5-90°-DN 12	1/2"	M22 x 1.5	39	43.5	27	MMS-HY-00944
DKJ-KOMATSU-M24x1.5-90°-DN 12	1/2"	M24 x 1.5	39	50	32	MMS-HY-00945
DKJ-KOMATSU-M22x1.5-90°-DN 16	5/8"	M22 x 1.5	49	50	27	MMS-HY-00946
DKJ-KOMATSU-M24x1.5-90°-DN 16	5/8"	M24 x 1.5	49	55	32	MMS-HY-00947
DKJ-KOMATSU-M30x1.5-90°-DN 19	3/4"	M30 x 1.5	53.5	62.5	36	MMS-HY-00948
DKJ-KOMATSU-M33x1.5-90°-DN 25	1"	M33 x 1.5	73	69.5	41	MMS-HY-00949
DKJ-KOMATSU-M36x1.5-90°-DN 31	1 1/4"	M36 x 1.5	89	88	46	MMS-HY-00950
DKJ-KOMATSU-M42x1.5-90°-DN 38	1 1/2"	M42 x 1.5	101	106.5	50	MMS-HY-00951



HYDRAULIC PRESS COUPLING JIS KOMA FEMALE - 45°

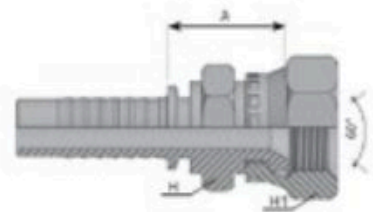
Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKJ-KOMATSU-M14x1.5-45°-DN 06	1/4"	M14 x 1.5	40	17	19	MMS-HY-00952
DKJ-KOMATSU-M16x1.5-45°-DN 06	1/4"	M16 x 1.5	40	17	22	MMS-HY-00953
DKJ-KOMATSU-M16x1.5-45°-DN 08	5/16"	M16 x 1.5	49.5	18.5	22	MMS-HY-00954
DKJ-KOMATSU-M14x1.5-45°-DN 10	3/8"	M14 x 1.5	53	18	19	MMS-HY-00955
DKJ-KOMATSU-M16x1.5-45°-DN 10	3/8"	M16 x 1.5	53	18	22	MMS-HY-00956
DKJ-KOMATSU-M18x1.5-45°-DN 10	3/8"	M18 x 1.5	54	19	24	MMS-HY-00957
DKJ-KOMATSU-M18x1.5-45°-DN 12	1/2"	M18 x 1.5	62	20	24	MMS-HY-00958
DKJ-KOMATSU-M20x1.5-45°-DN 12	1/2"	M20 x 1.5	63	22	27	MMS-HY-00959
DKJ-KOMATSU-M22x1.5-45°-DN 12	1/2"	M22 x 1.5	63	22	27	MMS-HY-00960
DKJ-KOMATSU-M24x1.5-45°-DN 12	1/2"	M24 x 1.5	64	22	32	MMS-HY-00961
DKJ-KOMATSU-M22x1.5-45°-DN 16	5/8"	M22 x 1.5	60	22	27	MMS-HY-00962
DKJ-KOMATSU-M24x1.5-45°-DN 16	5/8"	M24 x 1.5	63	25	32	MMS-HY-00963
DKJ-KOMATSU-M30x1.5-45°-DN 19	3/4"	M30 x 1.5	63	29	36	MMS-HY-00964
DKJ-KOMATSU-M33x1.5-45°-DN 25	1"	M33 x 1.5	88.5	39.5	41	MMS-HY-00965
DKJ-KOMATSU-M36x1.5-45°-DN 31	1 1/4"	M36 x 1.5	101	40	46	MMS-HY-00966
DKJ-KOMATSU-M42x1.5-45°-DN 38	1 1/2"	M42 x 1.5	118	39	50	MMS-HY-00967



HYDRAULIC CRIMP FITTINGS

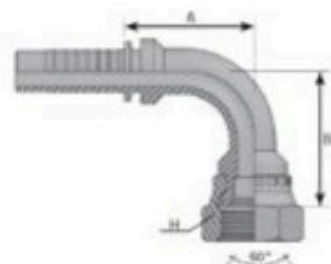
HYDRAULIC PRESS COUPLING JIS TOYO FEMALE

Description	Hoses	Thread	A mm	Hexagon	H1	REF
DKJ-JIS-1/4"-DN 06	1/4"	1/4"-19	51	17	19	MMS-HY-00968
DKJ-JIS-3/8"-DN 06	1/4"	3/8"-19	54	-	22	MMS-HY-00969
DKJ-JIS-3/8"-DN 08	5/16"	3/8"-19	54	-	22	MMS-HY-00970
DKJ-JIS-3/8"-DN 10	3/8"	3/8"-19	54	19	22	MMS-HY-00971
DKJ-JIS-1/2"-DN 12	1/2"	1/2"-14	60.5	22	27	MMS-HY-00972
DKJ-JIS-3/4"-DN 19	3/4"	3/4"-14	70.5	27	32	MMS-HY-00973
DKJ-JIS-1"-DN 25	1"	1"-11	88	32	38	MMS-HY-00974
DKJ-JIS-1 1/4"-DN 31	1 1/4"	1 1/4"-11	97.5	41	50	MMS-HY-00975
DKJ-JIS-1 1/2"-DN 38	1 1/2"	1 1/2"-11	110.5	50	55	MMS-HY-00976



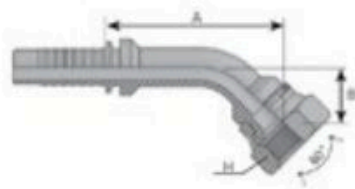
HYDRAULIC PRESS COUPLING JIS TOYO FEMALE - 90°

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKJ-JIS-1/4"-90°-DN 06	1/4"	1/4"-19	23	26	19	MMS-HY-00977
DKJ-JIS-3/8"-90°-DN 10	3/8"	3/8"-19	33	34.5	22	MMS-HY-00978
DKJ-JIS-1/2"-90°-DN 12	1/2"	1/2"-14	39	41	27	MMS-HY-00979
DKJ-JIS-3/4"-90°-DN 19	3/4"	3/4"-14	53.5	54.5	32	MMS-HY-00980
DKJ-JIS-1"-90°-DN 25	1"	1"-11	73	68	38	MMS-HY-00981
DKJ-JIS-1 1/4"-90°-DN 31	1 1/4"	1 1/4"-11	89	88.5	50	MMS-HY-00982
DKJ-JIS-1 1/2"-90°-DN 38	1 1/2"	1 1/2"-11	101	109.5	55	MMS-HY-00983



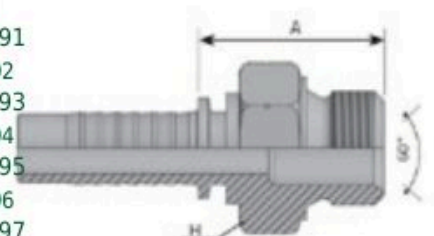
HYDRAULIC PRESS COUPLING JIS TOYO FEMALE - 45°

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKJ-JIS-1/4"-45°-DN 06	1/4"	1/4"-19	40	14	19	MMS-HY-00984
DKJ-JIS-3/8"-45°-DN 10	3/8"	3/8"-19	55	16.5	22	MMS-HY-00985
DKJ-JIS-1/2"-45°-DN 12	1/2"	1/2"-14	65	19	27	MMS-HY-00986
DKJ-JIS-3/4"-45°-DN 19	3/4"	3/4"-14	63	24.5	32	MMS-HY-00987
DKJ-JIS-1"-45°-DN 25	1"	1"-11	90	37	38	MMS-HY-00988
DKJ-JIS-1 1/4"-45°-DN 31	1 1/4"	1 1/4"-11	102	39.5	50	MMS-HY-00989
DKJ-JIS-1 1/2"-45°-DN 38	1 1/2"	1 1/2"-11	118	40.5	55	MMS-HY-00990



HYDRAULIC PRESS COUPLING METRIC 60 - MALE

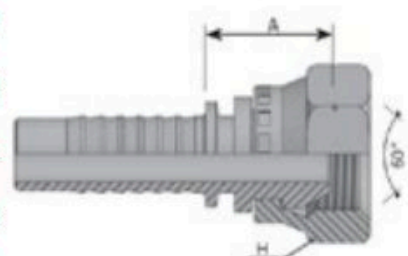
Description	Hoses	Thread	A mm	Hexagon	REF
AGM-M10X1-DN 05	3/16"	M10 x 1	21	14	MMS-HY-00991
AGM-M12X1.5-DN 05	3/16"	M12 x 1.5	24.5	17	MMS-HY-00992
AGM-M10X1-DN 06	1/4"	M10 x 1	21	14	MMS-HY-00993
AGM-M12X1.5-DN 06	1/4"	M12 x 1.5	25.5	17	MMS-HY-00994
AGM-M14X1.5-DN 06	1/4"	M14 x 1.5	27	19	MMS-HY-00995
AGM-M16X1.5-DN 06	1/4"	M16 x 1.5	29	22	MMS-HY-00996
AGM-M18X1.5-DN 06	1/4"	M18 x 1.5	29	24	MMS-HY-00997
AGM-M14X1.5-DN 08	5/16"	M14 x 1.5	27	19	MMS-HY-00998
AGM-M16X1.5-DN 08	5/16"	M16 x 1.5	29	22	MMS-HY-00999
AGM-M18X1.5-DN 08	5/16"	M18 x 1.5	29	24	MMS-HY-01000
AGM-M14X1.5-DN 10	3/8"	M14 x 1.5	27	19	MMS-HY-01001
AGM-M16X1.5-DN 10	3/8"	M16 x 1.5	29	22	MMS-HY-01002
AGM-M18X1.5-DN 10	3/8"	M18 x 1.5	29	24	MMS-HY-01003
AGM-M20X1.5-DN 10	3/8"	M20 x 1.5	32	27	MMS-HY-01004
AGM-M22X1.5-DN 10	3/8"	M22 x 1.5	32	27	MMS-HY-01005
AGM-M18X1.5-DN 12	1/2"	M18 x 1.5	29	24	MMS-HY-01006
AGM-M20X1.5-DN 12	1/2"	M20 x 1.5	33	27	MMS-HY-01007
AGM-M22X1.5-DN 12	1/2"	M22 x 1.5	33	27	MMS-HY-01008
AGM-M24X1.5-DN 12	1/2"	M24 x 1.5	36	30	MMS-HY-01009
AGM-M26X1.5-DN 12	1/2"	M26 x 1.5	36	32	MMS-HY-01010
AGM-M26X1.5-DN 16	5/8"	M26 x 1.5	36	32	MMS-HY-01011
AGM-M26X1.5-DN 19	3/4"	M26 x 1.5	37	32	MMS-HY-01012
AGM-M30X1.5-DN 19	3/4"	M30 x 1.5	36	36	MMS-HY-01013
AGM-M38X1.5-DN 25	1"	M38 x 1.5	37	46	MMS-HY-01014
AGM-M45X1.5-DN 31	1 1/4"	M45 x 1.5	43.5	50	MMS-HY-01015
AGM-M52X1.5-DN 38	1 1/2"	M52 x 1.5	46	55	MMS-HY-01016



HYDRAULIC CRIMP FITTINGS

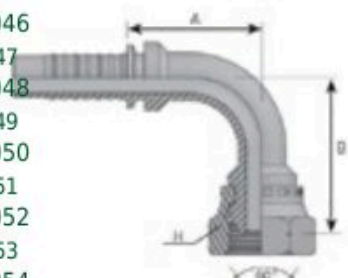
HYDRAULIC PRESS COUPLING METRIC 60 - FEMALE

Description	Hoses	Thread	A mm	Hexagon	REF
DKM-M10X1-DN 05	3/16"	M10 x 1	18	15	MMS-HY-01017
DKM-M12X1.5-DN 05	3/16"	M12 x 1.5	18	17	MMS-HY-01018
DKM-M10X1-DN 06	1/4"	M10 x 1	18	15	MMS-HY-01019
DKM-M12X1.5-DN 06	1/4"	M12 x 1.5	18	17	MMS-HY-01020
DKM-M14X1.5-DN 06	1/4"	M14 x 1.5	18	19	MMS-HY-01021
DKM-M16X1.5-DN 06	1/4"	M16 x 1.5	19	22	MMS-HY-01022
DKM-M18X1.5-DN 06	1/4"	M18 x 1.5	19	22	MMS-HY-01023
DKM-M14X1.5-DN 08	5/16"	M14 x 1.5	18	19	MMS-HY-01024
DKM-M16X1.5-DN 08	5/16"	M16 x 1.5	19	22	MMS-HY-01025
DKM-M18X1.5-DN 08	5/16"	M18 x 1.5	19	22	MMS-HY-01026
DKM-M14X1.5-DN 10	3/8"	M14 x 1.5	19	19	MMS-HY-01027
DKM-M16X1.5-DN 10	3/8"	M16 x 1.5	20	22	MMS-HY-01028
DKM-M18X1.5-DN 10	3/8"	M18 x 1.5	20	22	MMS-HY-01029
DKM-M20X1.5-DN 10	3/8"	M20 x 1.5	21	27	MMS-HY-01030
DKM-M22X1.5-DN 10	3/8"	M22 x 1.5	21	27	MMS-HY-01031
DKM-M18X1.5-DN 12	1/2"	M18 x 1.5	20	24	MMS-HY-01032
DKM-M20X1.5-DN 12	1/2"	M20 x 1.5	22	27	MMS-HY-01033
DKM-M22X1.5-DN 12	1/2"	M22 x 1.5	22	27	MMS-HY-01034
DKM-M24X1.5-DN 12	1/2"	M24 x 1.5	23	30	MMS-HY-01035
DKM-M26X1.5-DN 12	1/2"	M26 x 1.5	24	32	MMS-HY-01036
DKM-M26X1.5-DN 16	5/8"	M26 x 1.5	24	32	MMS-HY-01037
DKM-M27X1.5-DN 16	5/8"	M27 x 1.5	24	32	MMS-HY-01038
DKM-M26X1.5-DN 19	3/4"	M26 x 1.5	25	32	MMS-HY-01039
DKM-M27X1.5-DN 19	3/4"	M27 x 1.5	25	32	MMS-HY-01040
DKM-M30X1.5-DN 19	3/4"	M30 x 1.5	26	36	MMS-HY-01041
DKM-M33X1.5-DN 19	3/4"	M33 x 1.5	27.5	38	MMS-HY-01042
DKM-M38X1.5-DN 25	1"	M38 x 1.5	37	46	MMS-HY-01043
DKM-M45X1.5-DN 31	1 1/4"	M45 x 1.5	32	50	MMS-HY-01044
DKM-M52X1.5-DN 38	1 1/2"	M52 x 1.5	38.5	60	MMS-HY-01045



HYDRAULIC PRESS COUPLING METRIC 60 - FEMALE - 90°

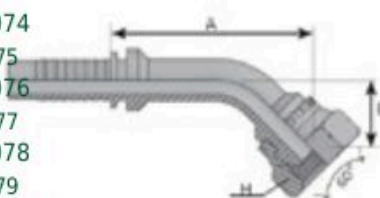
Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKM-M10X1.5-90°-DN 05	3/16"	M10 x 1	23	29	15	MMS-HY-01046
DKM-M12X1.5-90°-DN 05	3/16"	M12 x 1.5	23	29	17	MMS-HY-01047
DKM-M10X1.5-90°-DN 06	1/4"	M10 x 1	23	29	15	MMS-HY-01048
DKM-M12X1.5-90°-DN 06	1/4"	M12 x 1.5	23	29	17	MMS-HY-01049
DKM-M14X1.5-90°-DN 06	1/4"	M14 x 1.5	23	29	19	MMS-HY-01050
DKM-M16X1.5-90°-DN 06	1/4"	M16 x 1.5	33	37	19	MMS-HY-01051
DKM-M18X1.5-90°-DN 06	1/4"	M18 x 1.5	23	32	22	MMS-HY-01052
DKM-M14X1.5-90°-DN 08	5/16"	M14 x 1.5	31.5	33.5	19	MMS-HY-01053
DKM-M16X1.5-90°-DN 08	5/16"	M16 x 1.5	31.5	35.5	22	MMS-HY-01054
DKM-M18X1.5-90°-DN 08	5/16"	M18 x 1.5	31.5	35.5	22	MMS-HY-01055
DKM-M14X1.5-90°-DN 10	3/8"	M14 x 1.5	33	37	19	MMS-HY-01056
DKM-M16X1.5-90°-DN 10	3/8"	M16 x 1.5	33	38	22	MMS-HY-01057
DKM-M18X1.5-90°-DN 10	3/8"	M18 x 1.5	33	38	22	MMS-HY-01058
DKM-M20X1.5-90°-DN 10	3/8"	M20 x 1.5	33	42	27	MMS-HY-01059
DKM-M22X1.5-90°-DN 10	3/8"	M22 x 1.5	33	42	27	MMS-HY-01060
DKM-M18X1.5-90°-DN 12	1/2"	M18 x 1.5	39	43	24	MMS-HY-01061
DKM-M20X1.5-90°-DN 12	1/2"	M20 x 1.5	39	45	27	MMS-HY-01062
DKM-M22X1.5-90°-DN 12	1/2"	M22 x 1.5	39	45	27	MMS-HY-01063
DKM-M24X1.5-90°-DN 12	1/2"	M24 x 1.5	39	47	30	MMS-HY-01064
DKM-M26X1.5-90°-DN 12	1/2"	M26 x 1.5	39	51	32	MMS-HY-01065
DKM-M26X1.5-90°-DN 16	5/8"	M26 x 1.5	49	56	32	MMS-HY-01066
DKM-M27X1.5-90°-DN 16	5/8"	M27 x 1.5	49	56	32	MMS-HY-01067
DKM-M26X1.5-90°-DN 19	3/4"	M26 x 1.5	53.5	59	32	MMS-HY-01068
DKM-M27X1.5-90°-DN 19	3/4"	M27 x 1.5	53.5	59	32	MMS-HY-01069
DKM-M30X1.5-90°-DN 19	3/4"	M30 x 1.5	53.5	63	36	MMS-HY-01070
DKM-M38X1.5-90°-DN 25	1"	M38 x 1.5	73	72	46	MMS-HY-01071
DKM-M45X1.5-90°-DN 31	1 1/4"	M45 x 1.5	93	89	50	MMS-HY-01072
DKM-M52X1.5-90°-DN 38	1 1/2"	M52 x 1.5	99	110	55	MMS-HY-01073



HYDRAULIC CRIMP FITTINGS

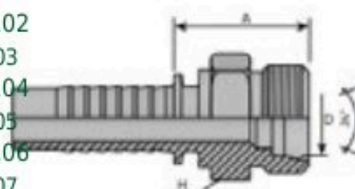
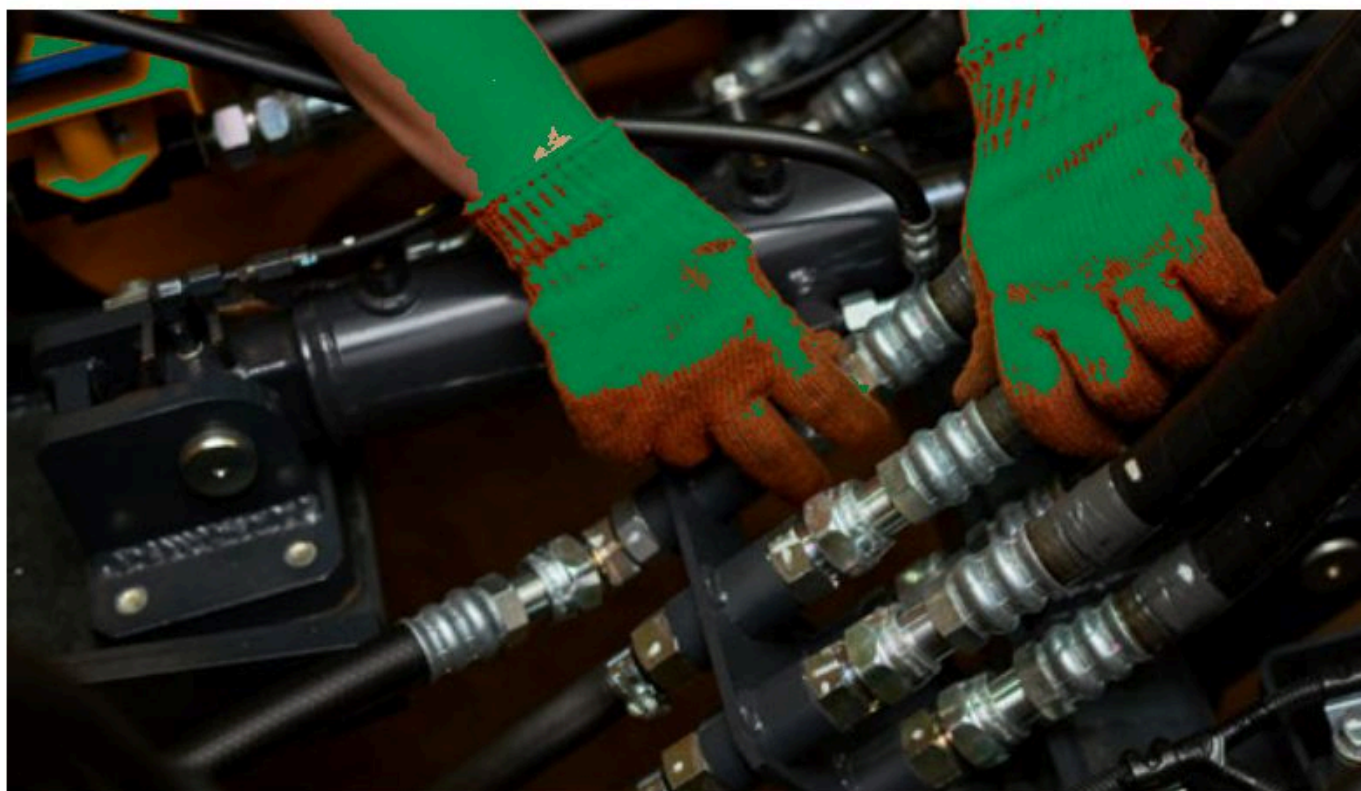
HYDRAULIC PRESS COUPLING METRIC 60 - FEMALE - 45°

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKM-M10X1.5-45°-DN 05	3/16"	M10 x 1	40	17	15	MMS-HY-01074
DKM-M12X1.5-45°-DN 05	3/16"	M12 x 1.5	40	17	17	MMS-HY-01075
DKM-M10X1.5-45°-DN 06	1/4"	M10 x 1	40	17	15	MMS-HY-01076
DKM-M12X1.5-45°-DN 06	1/4"	M12 x 1.5	40	17	17	MMS-HY-01077
DKM-M14X1.5-45°-DN 06	1/4"	M14 x 1.5	40	17	19	MMS-HY-01078
DKM-M16X1.5-45°-DN 06	1/4"	M16 x 1.5	43	20	22	MMS-HY-01079
DKM-M18X1.5-45°-DN 06	1/4"	M18 x 1.5	43	20	22	MMS-HY-01080
DKM-M14X1.5-45°-DN 08	5/16"	M14 x 1.5	40	17	19	MMS-HY-01081
DKM-M16X1.5-45°-DN 08	5/16"	M16 x 1.5	43	20	22	MMS-HY-01082
DKM-M18X1.5-45°-DN 08	5/16"	M18 x 1.5	43	20	22	MMS-HY-01083
DKM-M14X1.5-45°-DN 10	3/8"	M14 x 1.5	55	20	19	MMS-HY-01084
DKM-M16X1.5-45°-DN 10	3/8"	M16 x 1.5	55	20	22	MMS-HY-01085
DKM-M18X1.5-45°-DN 10	3/8"	M18 x 1.5	55	20	22	MMS-HY-01086
DKM-M20X1.5-45°-DN 10	3/8"	M20 x 1.5	58	23	27	MMS-HY-01087
DKM-M22X1.5-45°-DN 10	3/8"	M22 x 1.5	58	23	27	MMS-HY-01088
DKM-M18X1.5-45°-DN 12	1/2"	M18 x 1.5	65	23	24	MMS-HY-01089
DKM-M20X1.5-45°-DN 12	1/2"	M20 x 1.5	65	23	27	MMS-HY-01090
DKM-M22X1.5-45°-DN 12	1/2"	M22 x 1.5	65	23	27	MMS-HY-01091
DKM-M24X1.5-45°-DN 12	1/2"	M24 x 1.5	66	21	30	MMS-HY-01092
DKM-M26X1.5-45°-DN 12	1/2"	M26 x 1.5	66	21	32	MMS-HY-01093
DKM-M26X1.5-45°-DN 16	5/8"	M26 x 1.5	64	26	32	MMS-HY-01094
DKM-M27X1.5-45°-DN 16	5/8"	M27 x 1.5	64	26	32	MMS-HY-01095
DKM-M26X1.5-45°-DN 19	3/4"	M26 x 1.5	63	29	32	MMS-HY-01096
DKM-M27X1.5-45°-DN 19	3/4"	M27 x 1.5	63	29	32	MMS-HY-01097
DKM-M30X1.5-45°-DN 19	3/4"	M30 x 1.5	65	31	36	MMS-HY-01098
DKM-M38X1.5-45°-DN 25	1"	M38 x 1.5	90	41	46	MMS-HY-01099
DKM-M45X1.5-45°-DN 31	1 1/4"	M45 x 1.5	103	45	50	MMS-HY-01100
DKM-M52X1.5-45°-DN 38	1 1/2"	M52 x 1.5	119	53	55	MMS-HY-01101



METRIC MALE 24° CONE - L-TYPE

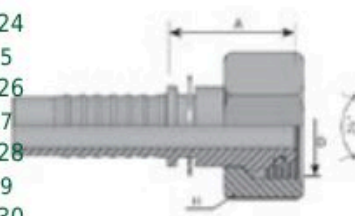
Description	Hoses	Thread	A mm	D mm	Hexagon	REF
CEL-M12X1.5-DN 05	3/16"	M12 x 1.5	22.5	6	14	MMS-HY-01102
CEL-M14X1.5-DN 05	3/16"	M14 x 1.5	23	8	15	MMS-HY-01103
CEL-M12X1.5-DN 06	1/4"	M12 x 1.5	23	6	14	MMS-HY-01104
CEL-M14X1.5-DN 06	1/4"	M14 x 1.5	23	8	15	MMS-HY-01105
CEL-M16X1.5-DN 06	1/4"	M16 x 1.5	25	10	17	MMS-HY-01106
CEL-M18X1.5-DN 06	1/4"	M18 x 1.5	26	12	19	MMS-HY-01107
CEL-M14X1.5-DN 08	5/16"	M14 x 1.5	23	8	15	MMS-HY-01108
CEL-M16X1.5-DN 08	5/16"	M16 x 1.5	25	10	17	MMS-HY-01109
CEL-M18X1.5-DN 08	5/16"	M18 x 1.5	26	12	19	MMS-HY-01110
CEL-M16X1.5-DN 10	3/8"	M16 x 1.5	25	10	17	MMS-HY-01111
CEL-M18X1.5-DN 10	3/8"	M18 x 1.5	26	12	19	MMS-HY-01112
CEL-M22X1.5-DN 10	3/8"	M22 x 1.5	27	15	24	MMS-HY-01113
CEL-M18X1.5-DN 12	1/2"	M18 x 1.5	26	12	22	MMS-HY-01114
CEL-M22X1.5-DN 12	1/2"	M22 x 1.5	27.5	15	24	MMS-HY-01115
CEL-M26X1.5-DN 12	1/2"	M26 x 1.5	27.5	18	27	MMS-HY-01116
CEL-M26X1.5-DN 16	5/8"	M26 x 1.5	27.5	18	27	MMS-HY-01117
CEL-M30X2-DN 16	5/8"	M30 x 2	31.5	22	32	MMS-HY-01118
CEL-M26X1.5-DN 19	3/4"	M26 x 1.5	29	18	27	MMS-HY-01119
CEL-M30X2-DN 19	3/4"	M30 x 2	32	22	32	MMS-HY-01120
CEL-M36X2-DN 25	1"	M36 x 2	40	28	38	MMS-HY-01121
CEL-M45X2-DN 31	1 1/4"	M45 x 2	41.5	35	46	MMS-HY-01122
CEL-M52X2-DN 38	1 1/2"	M52 x 2	40	42	55	MMS-HY-01123



HYDRAULIC CRIMP FITTINGS

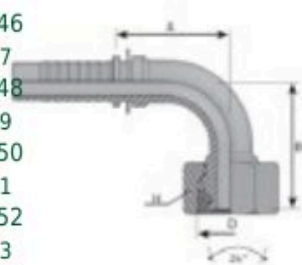
METRIC FEMALE 24° CONE - L-TYPE

Description	Hoses	Thread	A mm	D mm	Hexagon	REF
DKOL-M12X1.5-DN 05	3/16"	M12 x 1.5	25.5	6	14	MMS-HY-01124
DKOL-M14X1.5-DN 05	3/16"	M14 x 1.5	25.5	8	17	MMS-HY-01125
DKOL-M12X1.5-DN 06	1/4"	M12 x 1.5	21	6	17	MMS-HY-01126
DKOL-M14X1.5-DN 06	1/4"	M14 x 1.5	23.5	8	17	MMS-HY-01127
DKOL-M16X1.5-DN 06	1/4"	M16 x 1.5	26	10	19	MMS-HY-01128
DKOL-M18X1.5-DN 06	1/4"	M18 x 1.5	26	12	22	MMS-HY-01129
DKOL-M14X1.5-DN 08	5/16"	M14 x 1.5	21.5	8	19	MMS-HY-01130
DKOL-M16X1.5-DN 08	5/16"	M16 x 1.5	26	10	19	MMS-HY-01131
DKOL-M18X1.5-DN 08	5/16"	M18 x 1.5	26	12	22	MMS-HY-01132
DKOL-M16X1.5-DN 10	3/8"	M16 x 1.5	23.5	10	19	MMS-HY-01133
DKOL-M18X1.5-DN 10	3/8"	M18 x 1.5	26	12	22	MMS-HY-01134
DKOL-M22X1.5-DN 10	3/8"	M22 x 1.5	27	15	27	MMS-HY-01135
DKOL-M18X1.5-DN 12	1/2"	M18 x 1.5	25.5	12	22	MMS-HY-01136
DKOL-M22X1.5-DN 12	1/2"	M22 x 1.5	27.5	15	27	MMS-HY-01137
DKOL-M26X1.5-DN 12	1/2"	M26 x 1.5	28	18	32	MMS-HY-01138
DKOL-M26X1.5-DN 16	5/8"	M26 x 1.5	30	18	32	MMS-HY-01139
DKOL-M30X2-DN 16	5/8"	M30 x 2	31	22	36	MMS-HY-01140
DKOL-M26X1.5-DN 19	3/4"	M26 x 1.5	29	18	32	MMS-HY-01141
DKOL-M30X2-DN 19	3/4"	M30 x 2	31	22	36	MMS-HY-01142
DKOL-M36X2-DN 25	1"	M36 x 2	33.5	28	41	MMS-HY-01143
DKOL-M45X2-DN 31	1 1/4"	M45 x 2	38.5	35	50	MMS-HY-01144
DKOL-M52X2-DN 38	1 1/2"	M52 x 2	39	42	60	MMS-HY-01145



METRIC FEMALE 24° CONE - 90° ELBOW - L-TYPE

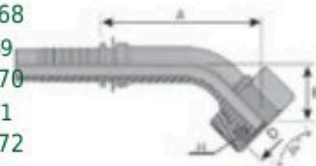
Description	Hoses	Thread	A mm	B mm	Hexagon	D mm	REF
DKOL-M12X1.5-90°-DN 05	3/16"	M12 x 1.5	29.5	31.5	14	6	MMS-HY-01146
DKOL-M14X1.5-90°-DN 05	3/16"	M14 x 1.5	29.5	31.5	17	8	MMS-HY-01147
DKOL-M12X1.5-90°-DN 06	1/4"	M12 x 1.5	29.5	31.5	17	6	MMS-HY-01148
DKOL-M14X1.5-90°-DN 06	1/4"	M14 x 1.5	29.5	31.5	17	8	MMS-HY-01149
DKOL-M16X1.5-90°-DN 06	1/4"	M16 x 1.5	29	32.5	19	10	MMS-HY-01150
DKOL-M18X1.5-90°-DN 06	1/4"	M18 x 1.5	27	30.5	22	12	MMS-HY-01151
DKOL-M14X1.5-90°-DN 08	5/16"	M14 x 1.5	31.5	36.7	19	8	MMS-HY-01152
DKOL-M16X1.5-90°-DN 08	5/16"	M16 x 1.5	31	32.5	19	10	MMS-HY-01153
DKOL-M18X1.5-90°-DN 08	5/16"	M18 x 1.5	29	37	22	12	MMS-HY-01154
DKOL-M16X1.5-90°-DN 10	3/8"	M16 x 1.5	33	38	19	10	MMS-HY-01155
DKOL-M18X1.5-90°-DN 10	3/8"	M18 x 1.5	35.5	37.5	22	12	MMS-HY-01156
DKOL-M22X1.5-90°-DN 10	3/8"	M22 x 1.5	34	42	27	15	MMS-HY-01157
DKOL-M18X1.5-90°-DN 12	1/2"	M18 x 1.5	39	49	22	12	MMS-HY-01158
DKOL-M22X1.5-90°-DN 12	1/2"	M22 x 1.5	39.5	44	27	15	MMS-HY-01159
DKOL-M26X1.5-90°-DN 12	1/2"	M26 x 1.5	39.5	46.5	32	18	MMS-HY-01160
DKOL-M26X1.5-90°-DN 16	5/8"	M26 x 1.5	48.5	50.5	32	18	MMS-HY-01161
DKOL-M30X2-90°-DN 16	5/8"	M30 x 2	48.5	53	36	22	MMS-HY-01162
DKOL-M26X1.5-90°-DN 19	3/4"	M26 x 1.5	53.5	63.5	32	18	MMS-HY-01163
DKOL-M30X2-90°-DN 19	3/4"	M30 x 2	56.5	55.5	36	22	MMS-HY-01164
DKOL-M36X2-90°-DN 25	1"	M36 x 2	73	72.5	41	28	MMS-HY-01165
DKOL-M45X2-90°-DN 31	1 1/4"	M45 x 2	92	86.5	50	35	MMS-HY-01166
DKOL-M52X2-90°-DN 38	1 1/2"	M52 x 2	99	94	60	42	MMS-HY-01167



HYDRAULIC CRIMP FITTINGS

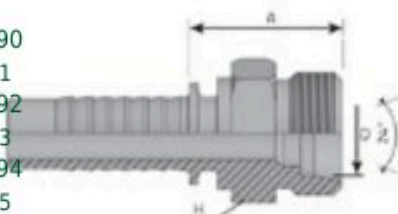
METRIC FEMALE 24° CONE - 45° ELBOW - L-TYPE

Description	Hoses	Thread	A mm	B mm	Hexagon	D mm	REF
DKOL-M12X1.5-45°-DN 05	3/16"	M12 x 1.5	37	15	14	6	MMS-HY-01168
DKOL-M14X1.5-45°-DN 05	3/16"	M14 x 1.5	37	15	17	8	MMS-HY-01169
DKOL-M12X1.5-45°-DN 06	1/4"	M12 x 1.5	40	17	17	6	MMS-HY-01170
DKOL-M14X1.5-45°-DN 06	1/4"	M14 x 1.5	50	17	17	8	MMS-HY-01171
DKOL-M16X1.5-45°-DN 06	1/4"	M16 x 1.5	48.5	17	19	10	MMS-HY-01172
DKOL-M18X1.5-45°-DN 06	1/4"	M18 x 1.5	48.5	17	22	12	MMS-HY-01173
DKOL-M14X1.5-45°-DN 08	5/16"	M14 x 1.5	51	23.2	19	8	MMS-HY-01174
DKOL-M16X1.5-45°-DN 08	5/16"	M16 x 1.5	52.5	17	19	10	MMS-HY-01175
DKOL-M18X1.5-45°-DN 08	5/16"	M18 x 1.5	50	20	22	12	MMS-HY-01176
DKOL-M16X1.5-45°-DN 10	3/8"	M16 x 1.5	55	20	19	10	MMS-HY-01177
DKOL-M18X1.5-45°-DN 10	3/8"	M18 x 1.5	57	17	22	12	MMS-HY-01178
DKOL-M22X1.5-45°-DN 10	3/8"	M22 x 1.5	59	19	27	15	MMS-HY-01179
DKOL-M18X1.5-45°-DN 12	1/2"	M18 x 1.5	65	27	22	12	MMS-HY-01180
DKOL-M22X1.5-45°-DN 12	1/2"	M22 x 1.5	64	22	27	15	MMS-HY-01181
DKOL-M26X1.5-45°-DN 12	1/2"	M26 x 1.5	65	26	32	18	MMS-HY-01182
DKOL-M26X1.5-45°-DN 16	5/8"	M26 x 1.5	61.5	28	32	18	MMS-HY-01183
DKOL-M30X2-45°-DN 16	5/8"	M30 x 2	63.5	30	36	22	MMS-HY-01184
DKOL-M26X1.5-45°-DN 19	3/4"	M26 x 1.5	63	33.5	32	18	MMS-HY-01185
DKOL-M30X2-45°-DN 19	3/4"	M30 x 2	63	27	36	22	MMS-HY-01186
DKOL-M36X2-45°-DN 25	1"	M36 x 2	85.5	38.5	41	28	MMS-HY-01187
DKOL-M45X2-45°-DN 31	1 1/4"	M45 x 2	104.5	35	50	35	MMS-HY-01188
DKOL-M52X2-45°-DN 38	1 1/2"	M52 x 2	119	45	60	42	MMS-HY-01189



METRIC MALE 24° CONE - S-TYPE

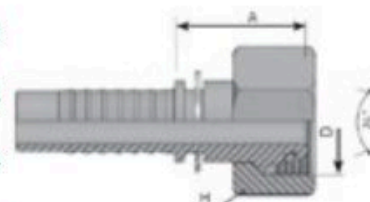
Description	Hoses	Thread	A mm	D mm	Hexagon	REF
CES-M14X1.5-DN 05	3/16"	M14 x 1.5	24	6	15	MMS-HY-01190
CES-M16X1.5-DN 05	3/16"	M16 x 1.5	25	8	17	MMS-HY-01191
CES-M14X1.5-DN 06	1/4"	M14 x 1.5	24	6	15	MMS-HY-01192
CES-M16X1.5-DN 06	1/4"	M16 x 1.5	25	8	17	MMS-HY-01193
CES-M18X1.5-DN 06	1/4"	M18 x 1.5	25	10	19	MMS-HY-01194
CES-M20X1.5-DN 06	1/4"	M20 x 1.5	27	12	22	MMS-HY-01195
CES-M18X1.5-DN 08	5/16"	M18 x 1.5	25	10	19	MMS-HY-01196
CES-M20X1.5-DN 08	5/16"	M20 x 1.5	26.5	12	22	MMS-HY-01197
CES-M18X1.5-DN 10	3/8"	M18 x 1.5	26	10	19	MMS-HY-01198
CES-M20X1.5-DN 10	3/8"	M20 x 1.5	27	12	22	MMS-HY-01199
CES-M22X1.5-DN 10	3/8"	M22 x 1.5	29	14	24	MMS-HY-01200
CES-M22X1.5-DN 12	1/2"	M22 x 1.5	30	14	24	MMS-HY-01201
CES-M24X1.5-DN 12	1/2"	M24 x 1.5	30	14	24	MMS-HY-01202
CES-M30X2-DN 16	5/8"	M30 x 2	33	20	32	MMS-HY-01203
CES-M30X2-DN 19	3/4"	M30 x 2	34	20	32	MMS-HY-01204
CES-M36X2-DN 19	3/4"	M36 x 2	36	25	38	MMS-HY-01205
CES-M42X2-DN 19	3/4"	M42 x 2		30		MMS-HY-01206
CES-M36X2-DN 25	1"	M36 x 2	38.5	25	38	MMS-HY-01207
CES-M42X2-DN 25	1"	M42 x 2	42	30	46	MMS-HY-01208
CES-M42X2-DN 31	1 1/4"	M42 x 2	42	30	46	MMS-HY-01209
CES-M52X2-DN 31	1 1/4"	M52 x 2	46	38	55	MMS-HY-01210
CES-M52X2-DN 38	1 1/2"	M52 x 2	46	38	55	MMS-HY-01211



HYDRAULIC CRIMP FITTINGS

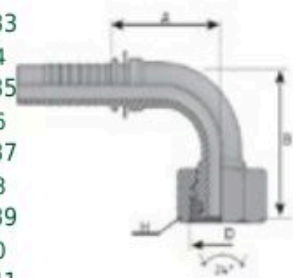
METRIC FEMALE 24° CONE - S-TYPE

Description	Hoses	Thread	A mm	D mm	Hexagon	REF
DKOS-M14X1.5-DN 05	3/16"	M14 x 1.5	25.5	6	19	MMS-HY-01212
DKOS-M16X1.5-DN 05	3/16"	M16 x 1.5	25.5	8	19	MMS-HY-01213
DKOS-M14X1.5-DN 06	1/4"	M14 x 1.5	25.5	6	17	MMS-HY-01214
DKOS-M16X1.5-DN 06	1/4"	M16 x 1.5	26	8	19	MMS-HY-01215
DKOS-M18X1.5-DN 06	1/4"	M18 x 1.5	26	10	22	MMS-HY-01216
DKOS-M20X1.5-DN 06	1/4"	M20 x 1.5	26	12	24	MMS-HY-01217
DKOS-M18X1.5-DN 08	5/16"	M18 x 1.5	26.5	10	22	MMS-HY-01218
DKOS-M20X1.5-DN 08	5/16"	M20 x 1.5	26	12	24	MMS-HY-01219
DKOS-M18X1.5-DN 10	3/8"	M18 x 1.5	26.5	10	22	MMS-HY-01220
DKOS-M20X1.5-DN 10	3/8"	M20 x 1.5	26.5	12	24	MMS-HY-01221
DKOS-M22X1.5-DN 10	3/8"	M22 x 1.5	27	14	27	MMS-HY-01222
DKOS-M22X1.5-DN 12	1/2"	M22 x 1.5	27.5	14	27	MMS-HY-01223
DKOS-M24X1.5-DN 12	1/2"	M24 x 1.5	32	16	30	MMS-HY-01224
DKOS-M30X2-DN 16	5/8"	M30 x 2	37	20	36	MMS-HY-01225
DKOS-M30X2-DN 19	3/4"	M30 x 2	37.5	20	36	MMS-HY-01226
DKOS-M36X2-DN 19	3/4"	M36 x 2	38.5	25	46	MMS-HY-01227
DKOS-M36X2-DN 25	1"	M36 x 2	39.5	25	46	MMS-HY-01228
DKOS-M42X2-DN 25	1"	M42 x 2	40.5	30	50	MMS-HY-01229
DKOS-M42X2-DN 31	1 1/4"	M42 x 2	41.5	30	50	MMS-HY-01230
DKOS-M52X2-DN 31	1 1/4"	M52 x 2	47	38	60	MMS-HY-01231
DKOS-M52X2-DN 38	1 1/2"	M52 x 2	47	38	60	MMS-HY-01232



METRIC FEMALE 24° CONE - 90° ELBOW - S-TYPE

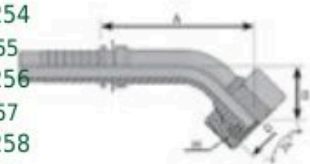
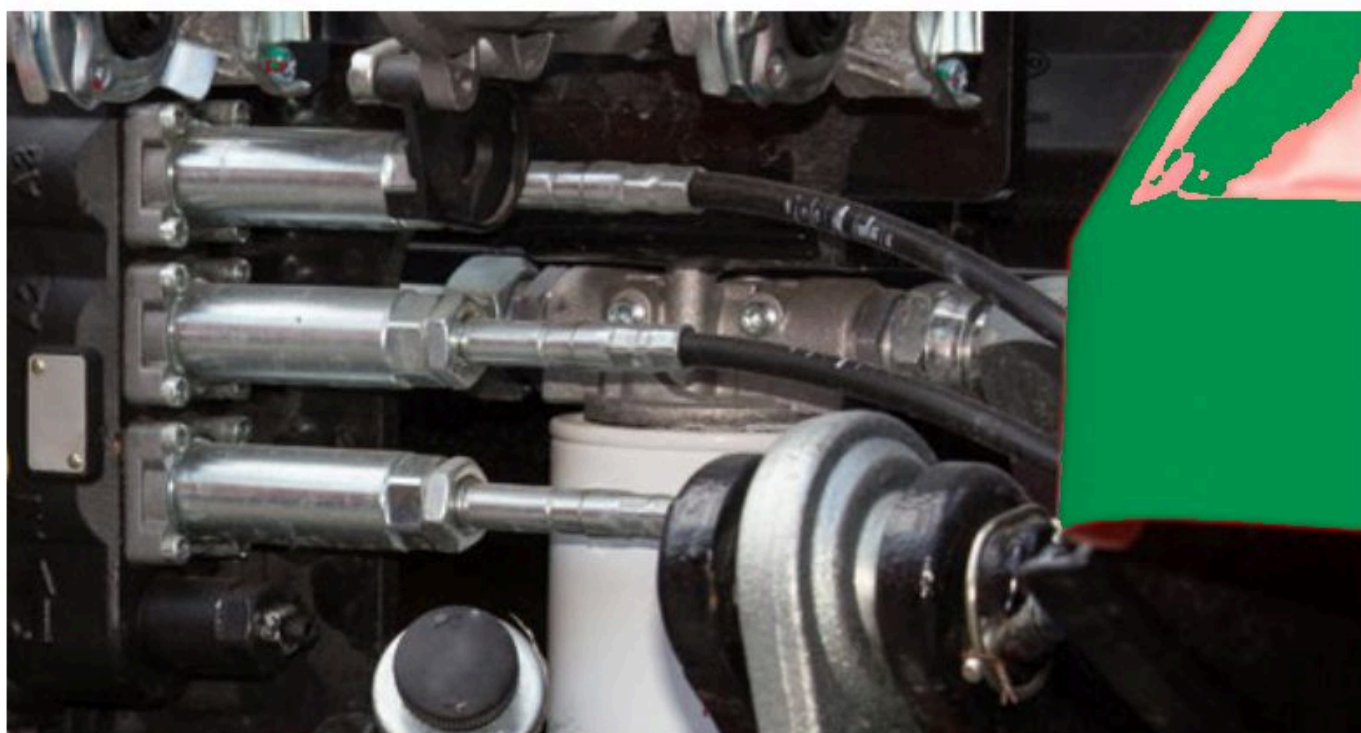
Description	Hoses	Thread	A mm	B mm	Hexagon	D mm	REF
DKOS-M14X1.5-90°-DN 05	3/16"	M14 x 1.5	29.5	31.5	19	6	MMS-HY-01233
DKOS-M16X1.5-90°-DN 05	3/16"	M16 x 1.5	29.5	31.5	19	8	MMS-HY-01234
DKOS-M14X1.5-90°-DN 06	1/4"	M14 x 1.5	29.5	31.5	17	6	MMS-HY-01235
DKOS-M16X1.5-90°-DN 06	1/4"	M16 x 1.5	29.5	31.5	19	8	MMS-HY-01236
DKOS-M18X1.5-90°-DN 06	1/4"	M18 x 1.5	29	32.5	22	10	MMS-HY-01237
DKOS-M20X1.5-90°-DN 06	1/4"	M20 x 1.5	27	30.5	24	12	MMS-HY-01238
DKOS-M18X1.5-90°-DN 08	5/16"	M18 x 1.5	31	32.5	22	10	MMS-HY-01239
DKOS-M20X1.5-90°-DN 08	5/16"	M20 x 1.5	29	37	24	12	MMS-HY-01240
DKOS-M18X1.5-90°-DN 10	3/8"	M18 x 1.5	33	38	22	10	MMS-HY-01241
DKOS-M20X1.5-90°-DN 10	3/8"	M20 x 1.5	35.5	37.5	24	12	MMS-HY-01242
DKOS-M22X1.5-90°-DN 10	3/8"	M22 x 1.5	34	42	27	14	MMS-HY-01243
DKOS-M22X1.5-90°-DN 12	1/2"	M22 x 1.5	39.5	44	27	14	MMS-HY-01244
DKOS-M24X1.5-90°-DN 12	1/2"	M24 x 1.5	39.5	45	30	16	MMS-HY-01245
DKOS-M30X2-90°-DN 16	5/8"	M30 x 2	48.5	56	36	20	MMS-HY-01246
DKOS-M30X2-90°-DN 19	3/4"	M30 x 2	56.5	59	36	20	MMS-HY-01247
DKOS-M36X2-90°-DN 19	3/4"	M36 x 2	56.5	59	46	25	MMS-HY-01248
DKOS-M36X2-90°-DN 25	1"	M36 x 2	73	75	46	25	MMS-HY-01249
DKOS-M42X2-90°-DN 25	1"	M42 x 2	73	75	50	30	MMS-HY-01250
DKOS-M42X2-90°-DN 31	1 1/4"	M42 x 2	92	86	50	30	MMS-HY-01251
DKOS-M52X2-90°-DN 31	1 1/4"	M52 x 2	92	86	60	38	MMS-HY-01252
DKOS-M52X2-90°-DN 38	1 1/2"	M52 x 2	99	94	60	38	MMS-HY-01253



HYDRAULIC CRIMP FITTINGS

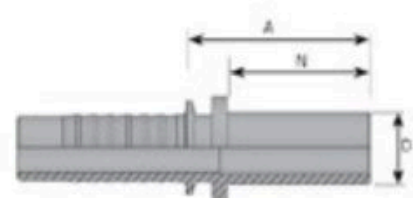
METRIC FEMALE 24° CONE - 45° ELBOW - S-TYPE

Description	Hoses	Thread	A mm	B mm	Hexagon	D mm	REF
DKOS-M14X1.5-45°-DN 05	3/16"	M14 x 1.5	37	15	19	6	MMS-HY-01254
DKOS-M16X1.5-45°-DN 05	3/16"	M16 x 1.5	37	15	19	8	MMS-HY-01255
DKOS-M14X1.5-45°-DN 06	1/4"	M14 x 1.5	40	17	17	6	MMS-HY-01256
DKOS-M16X1.5-45°-DN 06	1/4"	M16 x 1.5	50	17	19	8	MMS-HY-01257
DKOS-M18X1.5-45°-DN 06	1/4"	M18 x 1.5	48.5	17	22	10	MMS-HY-01258
DKOS-M20X1.5-45°-DN 06	1/4"	M20 x 1.5	48.5	17	24	12	MMS-HY-01259
DKOS-M18X1.5-45°-DN 08	5/16"	M18 x 1.5	52.5	17	22	10	MMS-HY-01260
DKOS-M20X1.5-45°-DN 08	5/16"	M20 x 1.5	50	20	24	12	MMS-HY-01261
DKOS-M18X1.5-45°-DN 10	3/8"	M18 x 1.5	55	20	22	10	MMS-HY-01262
DKOS-M20X1.5-45°-DN 10	3/8"	M20 x 1.5	57	17	24	12	MMS-HY-01263
DKOS-M22X1.5-45°-DN 10	3/8"	M22 x 1.5	59	19	27	14	MMS-HY-01264
DKOS-M22X1.5-45°-DN 12	1/2"	M22 x 1.5	65	22	27	14	MMS-HY-01265
DKOS-M24X1.5-45°-DN 12	1/2"	M24 x 1.5	66.5	22	30	16	MMS-HY-01266
DKOS-M30X2-45°-DN 16	5/8"	M30 x 2	64.5	26	36	20	MMS-HY-01267
DKOS-M30X2-45°-DN 19	3/4"	M30 x 2	64	27	36	20	MMS-HY-01268
DKOS-M36X2-45°-DN 19	3/4"	M36 x 2	70	28	46	25	MMS-HY-01269
DKOS-M36X2-45°-DN 25	1"	M36 x 2	88.5	38	46	25	MMS-HY-01270
DKOS-M42X2-45°-DN 25	1"	M42 x 2	89	38	50	30	MMS-HY-01271
DKOS-M42X2-45°-DN 31	1 1/4"	M42 x 2	104.5	35	50	30	MMS-HY-01272
DKOS-M52X2-45°-DN 31	1 1/4"	M52 x 2	104.5	35	60	38	MMS-HY-01273
DKOS-M52X2-45°-DN 38	1 1/2"	M52 x 2	119	45	60	38	MMS-HY-01274



STANDPIPE

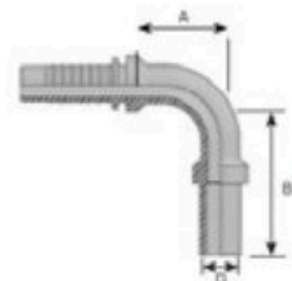
Description	Hoses	A mm	N mm	D mm	REF
BE-6-DN 05	3/16"	30	24	6	MMS-HY-01275
BE-8-DN 05	3/16"	30	24	8	MMS-HY-01276
BE-6-DN 06	1/4"	30.5	22.5	6	MMS-HY-01277
BE-8-DN 06	1/4"	30.5	23	8	MMS-HY-01278
BE-10-DN 06	1/4"	32	25	10	MMS-HY-01279
BE-12-DN 06	1/4"	32	25	12	MMS-HY-01280
BE-8-DN 08	5/16"	30	23	8	MMS-HY-01281
BE-10-DN 08	5/16"	32	25	10	MMS-HY-01282
BE-12-DN 08	5/16"	32	25	12	MMS-HY-01283
BE-10-DN 10	3/8"	33	25.5	10	MMS-HY-01284
BE-12-DN 10	3/8"	32.5	25	12	MMS-HY-01285
BE-14-DN 10	3/8"	35.5	28	14	MMS-HY-01286
BE-15-DN 10	3/8"	33	25.5	15	MMS-HY-01287
BE-12-DN 12	1/2"	33	25	12	MMS-HY-01288
BE-14-DN 12	1/2"	36	28	14	MMS-HY-01289
BE-15-DN 12	1/2"	33.5	25.5	15	MMS-HY-01290
BE-16-DN 12	1/2"	39	31	16	MMS-HY-01291
BE-18-DN 12	1/2"	35.5	27	18	MMS-HY-01292
BE-18-DN 16	5/8"	36	28	18	MMS-HY-01293
BE-20-DN 16	5/8"	43.5	35	20	MMS-HY-01294
BE-22-DN 16	5/8"	38	29	22	MMS-HY-01295
BE-18-DN 19	3/4"	34.5	26	18	MMS-HY-01296
BE-20-DN 19	3/4"	44	35	20	MMS-HY-01297
BE-22-DN 19	3/4"	38	29.5	22	MMS-HY-01298
BE-25-DN 19	3/4"	51	41	25	MMS-HY-01299
BE-25-DN 25	1"	50	39.5	25	MMS-HY-01300
BE-28-DN 25	1"	41	30.5	28	MMS-HY-01301
BE-30-DN 25	1"	54	43.5	30	MMS-HY-01302
BE-30-DN 31	1 1/4"	54.5	43	30	MMS-HY-01303
BE-35-DN 31	1 1/4"	46.5	35.5	35	MMS-HY-01304
BE-38-DN 31	1 1/4"	60	48	38	MMS-HY-01305
BE-38-DN 38	1 1/2"	60	48	38	MMS-HY-01306
BE-42-DN 38	1 1/2"	47	36	42	MMS-HY-01307



HYDRAULIC CRIMP FITTINGS

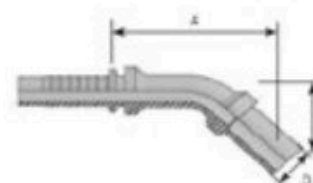
TUBE SOCK METRIC - 90°

Description	Hoses	A mm	B mm	D mm	REF
BE-8-90°-DN 06	1/4"	24	43	8	MMS-HY-01308
BE-10-90°-DN 08	5/16"	32	51	10	MMS-HY-01309
BE-12-90°-DN 10	3/8"	33	53	12	MMS-HY-01310
BE-15-90°-DN 12	1/2"	39	60.5	15	MMS-HY-01311
BE-18-90°-DN 16	5/8"	49	69	18	MMS-HY-01312
BE-22-90°-DN 19	3/4"	58	76	22	MMS-HY-01313
BE-28-90°-DN 25	1"	74	88	28	MMS-HY-01314



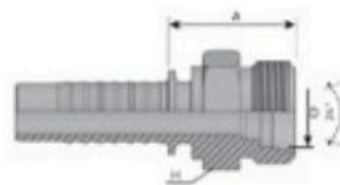
TUBE SOCK METRIC - 45°

Description	Hoses	D mm	REF
BE-10-45°-DN 08	5/16"	10	MMS-HY-01315
BE-12-45°-DN 10	3/8"	12	MMS-HY-01316
BE-15-45°-DN 12	1/2"	15	MMS-HY-01317
BE-18-45°-DN 16	5/8"	18	MMS-HY-01318
BE-22-45°-DN 19	3/4"	22	MMS-HY-01319
BE-28-45°-DN 25	1"	28	MMS-HY-01320

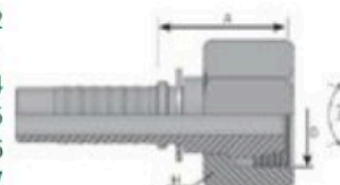


HYDRAULIC PRESS COUPLING FRENCH METRIC 24° - MALE

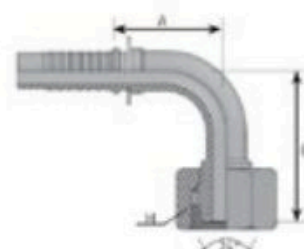
Description	Hoses	Thread	A mm	D mm	Hexagon	REF
CEF-M20X1.5-DN 06	1/4"	M20 x 1.5	26.7	13	22	MMS-HY-01321
CEF-M20X1.5-DN 08	5/16"	M20 x 1.5	26.7	13	22	MMS-HY-01322
CEF-M20X1.5-DN 10	3/8"	M20 x 1.5	26.7	13	22	MMS-HY-01323
CEF-M24X1.5-DN 10	3/8"	M24 x 1.5	30.2	17	27	MMS-HY-01324
CEF-M24X1.5-DN 12	1/2"	M24 x 1.5	30.7	17	27	MMS-HY-01325
CEF-M30X1.5-DN 12	1/2"	M30 x 1.5	31.2	21	32	MMS-HY-01326
CEF-M30X1.5-DN 16	5/8"	M30 x 1.5	31.2	21	32	MMS-HY-01327
CEF-M30X1.5-DN 19	3/4"	M30 x 1.5	31.7	21	32	MMS-HY-01328
CEF-M36X1.5-DN 19	3/4"	M36 x 1.5	31.7	27	38	MMS-HY-01329
CEF-M45X1.5-DN 25	1"	M45 x 1.5	37.2	33	46	MMS-HY-01330
CEF-M45X1.5-DN 31	1 1/4"	M45 x 1.5	38.2	33	46	MMS-HY-01331

**HYDRAULIC PRESS COUPLING FRENCH METRIC 24° - FEMALE**

Description	Hoses	Thread	A mm	D mm	Hexagon	REF
DKF-M20X1.5-DN 06	1/4"	M20 x 1.5	26.7	13	24	MMS-HY-01332
DKF-M20X1.5-DN 08	5/16"	M20 x 1.5	26.7	13	24	MMS-HY-01333
DKF-M20X1.5-DN 10	3/8"	M20 x 1.5	26.7	13	24	MMS-HY-01334
DKF-M24X1.5-DN 10	3/8"	M24 x 1.5	30.2	17	30	MMS-HY-01335
DKF-M24X1.5-DN 12	1/2"	M24 x 1.5	30.7	17	30	MMS-HY-01336
DKF-M30X1.5-DN 12	1/2"	M30 x 1.5	31.2	21	36	MMS-HY-01337
DKF-M30X1.5-DN 16	5/8"	M30 x 1.5	31.2	21	36	MMS-HY-01338
DKF-M30X1.5-DN 19	3/4"	M30 x 1.5	31.7	21	36	MMS-HY-01339
DKF-M36X1.5-DN 19	3/4"	M36 x 1.5	31.7	27	41	MMS-HY-01340
DKF-M45X1.5-DN 25	1"	M45 x 1.5	37.2	33	50	MMS-HY-01341
DKF-M45X1.5-DN 31	1 1/4"	M45 x 1.5	38.2	33	50	MMS-HY-01342

**HYDRAULIC PRESS COUPLING FRENCH METRIC 24° - FEMALE - 90°**

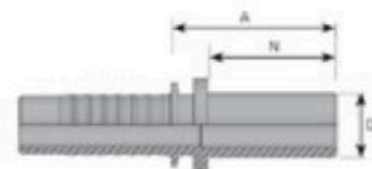
Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKF-M20X1.5-90°-DN 06	1/4"	M20 x 1.5	27	32.50	24	MMS-HY-01343
DKF-M20X1.5-90°-DN 08	5/16"	M20 x 1.5	29	39	24	MMS-HY-01344
DKF-M20X1.5-90°-DN 10	3/8"	M20 x 1.5	35.5	39.50	24	MMS-HY-01345
DKF-M24X1.5-90°-DN 10	3/8"	M24 x 1.5	36	48	30	MMS-HY-01346
DKF-M24X1.5-90°-DN 12	1/2"	M24 x 1.5	39.5	48	30	MMS-HY-01347
DKF-M30X1.5-90°-DN 12	1/2"	M30 x 1.5	45.50	61	36	MMS-HY-01348
DKF-M30X1.5-90°-DN 16	5/8"	M30 x 1.5	48.50	61	36	MMS-HY-01349
DKF-M30X1.5-90°-DN 19	3/4"	M30 x 1.5	56.50	64	36	MMS-HY-01350
DKF-M36X1.5-90°-DN 19	3/4"	M36 x 1.5	56.50	64	41	MMS-HY-01351
DKF-M45X1.5-90°-DN 25	1"	M45 x 1.5	86	91	50	MMS-HY-01352
DKF-M45X1.5-90°-DN 31	1 1/4"	M45 x 1.5	92	91	50	MMS-HY-01353



HYDRAULIC CRIMP FITTINGS

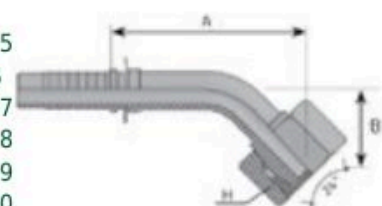
TUBE SOCK "FRENCH SERIES"

Description	Hoses	Thread	A mm	D mm	REF
BEF-13-DN 06	1/4"	29.5	22	13	MMS-HY-01354
BEF-13-DN 08	5/16"	29.5	22	13	MMS-HY-01355
BEF-13-DN 10	3/8"	29.5	22	13	MMS-HY-01356
BEF-17-DN 10	3/8"	31.5	24	17	MMS-HY-01357
BEF-17-DN 12	1/2"	32.5	24	17	MMS-HY-01358
BEF-21-DN 12	1/2"	34.5	26	21	MMS-HY-01359
BEF-21-DN 16	5/8"	34.5	26	21	MMS-HY-01360
BEF-21-DN 19	3/4"	35.3	26	21	MMS-HY-01361
BEF-26-DN 19	3/4"	34.3	25	27	MMS-HY-01362
BEF-33-DN 25	1"	37.3	27	33	MMS-HY-01363
BEF-33-DN 31	1 1/4"	38	27	33	MMS-HY-01364



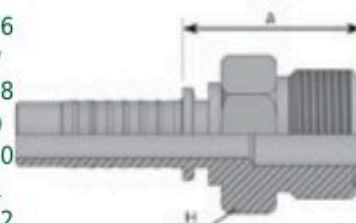
HYDRAULIC PRESS COUPLING FRENCH METRIC 24° - FEMALE - 45°

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKF-M20X1.5-45°-DN 06	1/4"	M20 x 1.5	50	18.5	24	MMS-HY-01365
DKF-M20X1.5-45°-DN 08	5/16"	M20 x 1.5	52	21	24	MMS-HY-01366
DKF-M20X1.5-45°-DN 10	3/8"	M20 x 1.5	58.5	18.5	24	MMS-HY-01367
DKF-M24X1.5-45°-DN 10	3/8"	M24 x 1.5	65.5	24	30	MMS-HY-01368
DKF-M24X1.5-45°-DN 12	1/2"	M24 x 1.5	68.5	24	30	MMS-HY-01369
DKF-M30X1.5-45°-DN 12	1/2"	M30 x 1.5	68	29	36	MMS-HY-01370
DKF-M30X1.5-45°-DN 16	5/8"	M30 x 1.5	68	29	36	MMS-HY-01371
DKF-M30X1.5-45°-DN 19	3/4"	M30 x 1.5	69	30	36	MMS-HY-01372
DKF-M36X1.5-45°-DN 19	3/4"	M36 x 1.5	73	31	41	MMS-HY-01373
DKF-M45X1.5-45°-DN 25	1"	M45 x 1.5	101	36	50	MMS-HY-01374
DKF-M45X1.5-45°-DN 31	1 1/4"	M45 x 1.5	107	38	50	MMS-HY-01375

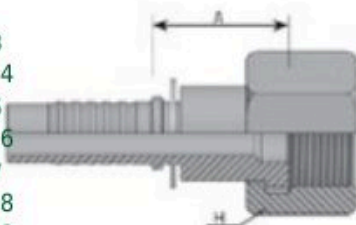


ORFS - MALE

Description	Hoses	Thread	A mm	H mm	REF
ORFS-AG-9/16"-DN 06	1/4"	9/16"-18	24	17	MMS-HY-01376
ORFS-AG-11/16"-DN 06	1/4"	11/16"-16	27.5	19	MMS-HY-01377
ORFS-AG-11/16"-DN 08	5/16"	11/16"-16	27.5	19	MMS-HY-01378
ORFS-AG-11/16"-DN 10	3/8"	11/16"-16	27.5	19	MMS-HY-01379
ORFS-AG-13/16"-DN 10	3/8"	13/16"-16	30.5	22	MMS-HY-01380
ORFS-AG-1"-DN 10	3/8"	1"-14	33.5	27	MMS-HY-01381
ORFS-AG-13/16"-DN 12	1/2"	13/16"-16	34	27	MMS-HY-01382
ORFS-AG-1"-DN 12	1/2"	1"-14	31.5	27	MMS-HY-01383
ORFS-AG-1 3/16"-DN 12	1/2"	1 3/16"-16	36	32	MMS-HY-01384
ORFS-AG-1"-DN 16	5/8"	1"-14	34	27	MMS-HY-01385
ORFS-AG-1 3/16"-DN 16	5/8"	1 3/16"-12	37	32	MMS-HY-01386
ORFS-AG-1 3/16"-DN 19	3/4"	1 3/16"-12	38	32	MMS-HY-01387
ORFS-AG-1 7/16"-DN 19	3/4"	1 7/16"-12	38.5	41	MMS-HY-01388
ORFS-AG-1 7/16"-DN 25	1"	1 7/16"-12	39.5	41	MMS-HY-01389
ORFS-AG-1 11/16"-DN 25	1"	1 11/16"-12	40	46	MMS-HY-01390
ORFS-AG-1 11/16"-DN 31	1 1/4"	1 11/16"-12	40	46	MMS-HY-01391
ORFS-AG-2"-DN 38	1 1/2"	2"-12	43	55	MMS-HY-01392

**ORFS - FEMALE**

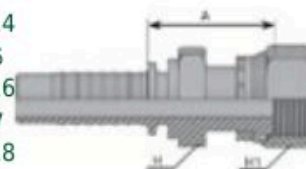
Description	Hoses	Thread	A mm	H mm	REF
ORFS-9/16"-DN 06	1/4"	9/16"-18	20.5	17	MMS-HY-01393
ORFS-11/16"-DN 06	1/4"	11/16"-16	23	22	MMS-HY-01394
ORFS-13/16"-DN 06	1/4"	13/16"-16	26	24	MMS-HY-01395
ORFS-9/16"-DN 08	5/16"	9/16"-18	20.5	17	MMS-HY-01396
ORFS-11/16"-DN 08	5/16"	11/16"-16	23	22	MMS-HY-01397
ORFS-9/16"-DN 10	3/8"	9/16"-18	25	19	MMS-HY-01398
ORFS-11/16"-DN 10	3/8"	11/16"-16	23.5	22	MMS-HY-01399
ORFS-13/16"-DN 10	3/8"	13/16"-16	26	24	MMS-HY-01400
ORFS-11/16"-DN 12	1/2"	11/16"-16	29	22	MMS-HY-01401
ORFS-13/16"-DN 12	1/2"	13/16"-16	26.5	24	MMS-HY-01402
ORFS-1"-DN 12	1/2"	1"-14	30	30	MMS-HY-01403
ORFS-1 3/16"-DN 12	1/2"	1 3/16"-12	32.5	36	MMS-HY-01404
ORFS-1"-DN 16	5/8"	1"-14	30	30	MMS-HY-01405
ORFS-1 3/16"-DN 16	5/8"	1 3/16"-12	32	36	MMS-HY-01406
ORFS-1 3/16"-DN 19	3/4"	1 3/16"-12	33	36	MMS-HY-01407
ORFS-1 7/16"-DN 19	3/4"	1 7/16"-12	34	41	MMS-HY-01408
ORFS-1 3/16"-DN 25	1"	1 3/16"-12	38.5	36	MMS-HY-01409
ORFS-1 7/16"-DN 25	1"	1 7/16"-12	35	41	MMS-HY-01410
ORFS-1 11/16"-DN 25	1"	1 11/16"-12	35	50	MMS-HY-01411
ORFS-1 11/16"-DN 31	1 1/4"	1 11/16"-12	35.5	50	MMS-HY-01412
ORFS-2"-DN 38	1 1/2"	2"-12	37	60	MMS-HY-01413



HYDRAULIC CRIMP FITTINGS

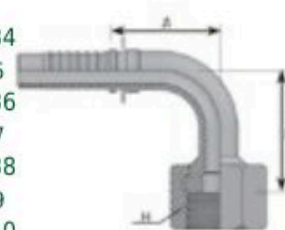
HYDRAULIC PRESS COUPLING - FEMALE - DOUBLE HEXAGON

Description	Hoses	Thread	A mm	H1 mm	Hexagon	REF
ORFS-9/16"-DN 06-HEX	1/4"	9/16"-18	30	19	19	MMS-HY-01414
ORFS-11/16"-DN 06-HEX	1/4"	11/16"-16	31.5	22	17	MMS-HY-01415
ORFS-11/16"-DN 08-HEX	5/16"	11/16"-16	32	22	17	MMS-HY-01416
ORFS-9/16"-DN 10-HEX	3/8"	9/16"-18	30.5	17	17	MMS-HY-01417
ORFS-11/16"-DN 10-HEX	3/8"	11/16"-16	34	22	22	MMS-HY-01418
ORFS-13/16"-DN 10-HEX	3/8"	13/16"-16	40.5	24	24	MMS-HY-01419
ORFS-11/16"-DN 12-HEX	1/2"	11/16"-16	31.5	22	22	MMS-HY-01420
ORFS-13/16"-DN 12-HEX	1/2"	13/16"-16	41	24	24	MMS-HY-01421
ORFS-1"-DN 12-HEX	1/2"	1"-14	39	30	24	MMS-HY-01422
ORFS-1 3/16"-DN 12-HEX	1/2"	1 3/16"-16	44	36	30	MMS-HY-01423
ORFS-1"-DN 16-HEX	5/8"	1"-14	39	30	24	MMS-HY-01424
ORFS-1 3/16"-DN 16-HEX	5/8"	1 3/16"-16	44	36	30	MMS-HY-01425
ORFS-1"-DN 19-HEX	3/4"	1"-14	42	30	27	MMS-HY-01426
ORFS-1 3/16"-DN 19-HEX	3/4"	1 3/16"-16	44.6	36	30	MMS-HY-01427
ORFS-1 7/16"-DN 19-HEX	3/4"	1 7/16"-12	51.5	41	36	MMS-HY-01428
ORFS-1 3/16"-DN 25-HEX	1"	1 3/16"-16	45.5	36	36	MMS-HY-01429
ORFS-1 7/16"-DN 25-HEX	1"	1 7/16"-12	52.5	41	36	MMS-HY-01430
ORFS-1 11/16"-DN 25-HEX	1"	1 11/16"-12	55	50	41	MMS-HY-01431
ORFS-1 11/16"-DN 31-HEX	1 1/4"	1 11/16"-12	56	50	41	MMS-HY-01432
ORFS-2"-DN 38-HEX	1 1/2"	2"-12	61.2	60	50	MMS-HY-01433

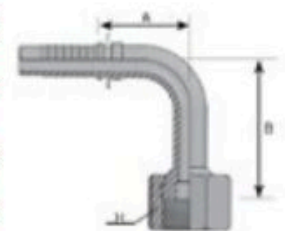


ORFS - FEMALE SWIVEL - 90° ELBOW

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
ORFS-9/16"-90°-DN 06-SW	1/4"	9/16"-18	28	29.5	17	MMS-HY-01434
ORFS-11/16"-90°-DN 06-SW	1/4"	11/16"-16	28	30	22	MMS-HY-01435
ORFS-13/16"-90°-DN 06-SW	1/4"	13/16"-16	29.5	32	24	MMS-HY-01436
ORFS-9/16"-90°-DN 08-SW	5/16"	9/16"-18	28	29.5	17	MMS-HY-01437
ORFS-11/16"-90°-DN 08-SW	5/16"	11/16"-16	29	29	22	MMS-HY-01438
ORFS-9/16"-90°-DN 10-SW	3/8"	9/16"-18	32.5	44	19	MMS-HY-01439
ORFS-11/16"-90°-DN 10-SW	3/8"	11/16"-16	36	29	22	MMS-HY-01440
ORFS-13/16"-90°-DN 10-SW	3/8"	13/16"-16	34	32	24	MMS-HY-01441
ORFS-11/16"-90°-DN 12-SW	1/2"	11/16"-16	40.5	51	22	MMS-HY-01442
ORFS-13/16"-90°-DN 12-SW	1/2"	13/16"-16	37.5	36	24	MMS-HY-01443
ORFS-1"-90°-DN 12-SW	1/2"	1"-14	39	39	30	MMS-HY-01444
ORFS-1 3/16"-90°-DN 12-SW	1/2"	1 3/16"-12	38	41	36	MMS-HY-01445
ORFS-1"-90°-DN 16-SW	5/8"	1"-14	51.5	43.5	30	MMS-HY-01446
ORFS-1 3/16"-90°-DN 16-SW	5/8"	1 3/16"-12	46.5	48	36	MMS-HY-01447
ORFS-1 3/16"-90°-DN 19-SW	3/4"	1 3/16"-12	56	49	36	MMS-HY-01448
ORFS-1 7/16"-90°-DN 19-SW	3/4"	1 7/16"-12	56.5	54	41	MMS-HY-01449
ORFS-1 3/16"-90°-DN 25-SW	1"	1 3/16"-12	70	85	36	MMS-HY-01450
ORFS-1 7/16"-90°-DN 25-SW	1"	1 7/16"-12	74	59.5	41	MMS-HY-01451
ORFS-1 11/16"-90°-DN 31-SW	1 1/4"	1 11/16"-12	90	75.5	50	MMS-HY-01452
ORFS-2"-90°-DN 38-SW	1 1/2"	2"-12	99	84	60	MMS-HY-01453

**ORFS - FEMALE SWIVEL - 90° ELBOW (LONG DROP)**

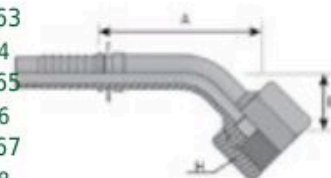
Description	Hoses	Thread	A mm	B mm	Hexagon	REF
ORFS-9/16"-90°-DN 06L-SW	1/4"	9/16"-18	26.5	45	17	MMS-HY-01454
ORFS-11/16"-90°-DN 10L-SW	3/8"	11/16"-16	32	53	22	MMS-HY-01455
ORFS-13/16"-90°-DN 10L-SW	3/8"	13/16"-16	36	51	24	MMS-HY-01456
ORFS-13/16"-90°-DN 12L-SW	1/2"	13/16"-16	37.5	63	24	MMS-HY-01457
ORFS-1"-90°-DN 12L-SW	1/2"	1"-14	37	64	30	MMS-HY-01458
ORFS-1"-90°-DN 16L-SW	5/8"	1"-14	45	63	30	MMS-HY-01459
ORFS-1 3/16"-90°-DN 16L-SW	5/8"	1 3/16"-12	45	71	36	MMS-HY-01460
ORFS-1 3/16"-90°-DN 19L-SW	3/4"	1 3/16"-12	51	90	36	MMS-HY-01461
ORFS-1 7/16"-90°-DN 25L-SW	1"	1 7/16"-12	69	108	41	MMS-HY-01462



HYDRAULIC CRIMP FITTINGS

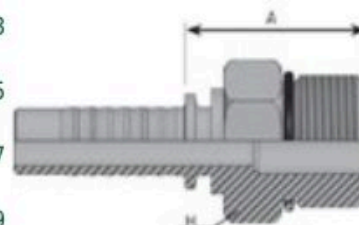
ORFS - FEMALE SWIVEL - 45° ELBOW

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
ORFS-9/16"-45°-DN 06-SW	1/4"	9/16"-18	45	15	17	MMS-HY-01463
ORFS-11/16"-45°-DN 06-SW	1/4"	11/16"-16	45.5	15.5	22	MMS-HY-01464
ORFS-13/16"-45°-DN 06-SW	1/4"	13/16"-16	49	18	24	MMS-HY-01465
ORFS-9/16"-45°-DN 08-SW	5/16"	9/16"-18	45	15	17	MMS-HY-01466
ORFS-11/16"-45°-DN 08-SW	5/16"	11/16"-16	46	15.5	22	MMS-HY-01467
ORFS-9/16"-45°-DN 10-SW	3/8"	9/16"-18	55	24	19	MMS-HY-01468
ORFS-11/16"-45°-DN 10-SW	3/8"	11/16"-16	51	13	22	MMS-HY-01469
ORFS-13/16"-45°-DN 10-SW	3/8"	13/16"-16	52	17	24	MMS-HY-01470
ORFS-11/16"-45°-DN 12-SW	1/2"	11/16"-16	72	26	22	MMS-HY-01471
ORFS-13/16"-45°-DN 12-SW	1/2"	13/16"-16	58	18	24	MMS-HY-01472
ORFS-1"-45°-DN 12-SW	1/2"	1"-14	61	20	30	MMS-HY-01473
ORFS-1 3/16"-45°-DN 12-SW	1/2"	1 3/16"-12	62	24	36	MMS-HY-01474
ORFS-1"-45°-DN 16-SW	5/8"	1"-14	55	20	30	MMS-HY-01475
ORFS-1 3/16"-45°-DN 16-SW	5/8"	1 3/16"-12	57	21	36	MMS-HY-01476
ORFS-1 3/16"-45°-DN 19-SW	3/4"	1 3/16"-12	58	23	36	MMS-HY-01477
ORFS-1 7/16"-45°-DN 19-SW	3/4"	1 7/16"-12	62.5	27	41	MMS-HY-01478
ORFS-1 3/16"-45°-DN 25-SW	1"	1 3/16"-12	96.5	43	36	MMS-HY-01479
ORFS-1 7/16"-45°-DN 25-SW	1"	1 7/16"-12	81	26	41	MMS-HY-01480
ORFS-1 11/16"-45°-DN 31-SW	1 1/4"	1 11/16"-12	93	34	50	MMS-HY-01481
ORFS-2"-45°-DN 38-SW	1 1/2"	2"-12	112	45	60	MMS-HY-01482

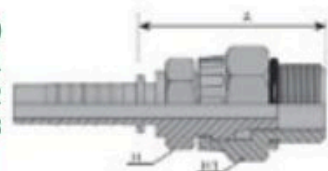


HYDRAULIC PRESS COUPLING SAE + O-RING

Description	Hoses	Thread	A mm	Hexagon	REF
AG-SAE-7/16"-DN 06	1/4"	7/16"-20	23.5	14	MMS-HY-01483
AG-SAE-1/2"-DN 06	1/4"	1/2"-20	25.5	17	MMS-HY-01484
AG-SAE-9/16"-DN 06	1/4"	9/16"-18	28	17	MMS-HY-01485
AG-SAE-9/16"-DN 10	3/8"	9/16"-18	28	17	MMS-HY-01486
AG-SAE-3/4"-DN 10	3/8"	3/4"-16	30.5	22	MMS-HY-01487
AG-SAE-3/8"-DN 10	3/8"	7/8"-14	34.5	27	MMS-HY-01488
AG-SAE-3/4"-DN 12	1/2"	3/4"-16	31	22	MMS-HY-01489
AG-SAE-7/8"-DN 12	1/2"	7/8"-14	35	27	MMS-HY-01490
AG-SAE-1 1/16"-DN 12	1/2"	1 1/16"-12	39	32	MMS-HY-01491
AG-SAE-3/4"-DN 16	5/8"	3/4"-16	31.5	24	MMS-HY-01492
AG-SAE-7/8"-DN 16	5/8"	7/8"-14	35	27	MMS-HY-01493
AG-SAE-1 1/16"-DN 16	5/8"	1 1/16"-12	39	32	MMS-HY-01494
AG-SAE-1 1/16"-DN 19	3/4"	1 1/16"-12	32	39	MMS-HY-01495
AG-SAE-1 5/16"-DN 19	3/4"	1 5/16"-12	41.5	38	MMS-HY-01496
AG-SAE-1 5/16"-DN 25	1"	1 5/16"-12	43	38	MMS-HY-01497
AG-SAE-1 5/8"-DN 25	1"	1 5/8"-12	44	46	MMS-HY-01498
AG-SAE-1 5/8"-DN 31	1 1/4"	1 5/8"-12	44.5	46	MMS-HY-01499

**HYDRAULIC PRESS COUPLING SAE BOSS - MALE**

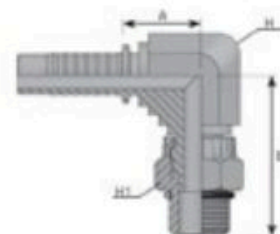
Description	Hoses	Thread	A mm	Hexagon	H1	REF
AG-SAE-7/16"-DN 06-SW	1/4"	7/16"-20	49	14	17	MMS-HY-01500
AG-SAE-9/16"-DN 06-SW	1/4"	9/16"-18	51.4	17	22	MMS-HY-01501
AG-SAE-7/16"-DN 10-SW	3/8"	7/16"-20	52	17	17	MMS-HY-01502
AG-SAE-9/16"-DN 10-SW	3/8"	9/16"-18	54.4	17	22	MMS-HY-01503
AG-SAE-3/4"-DN 10-SW	3/8"	3/4"-16	58	22	27	MMS-HY-01504
AG-SAE-9/16"-DN 12-SW	1/2"	9/16"-18	55.4	22	22	MMS-HY-01505
AG-SAE-3/4"-DN 12-SW	1/2"	3/4"-16	58.5	22	27	MMS-HY-01506
AG-SAE-1 1/16"-DN 12-SW	1/2"	1 1/16"-12	62.8	27	32	MMS-HY-01507
AG-SAE-1 1/16"-DN 19-SW	3/4"	1 1/16"-12	71.5	32	32	MMS-HY-01508
AG-SAE-1 5/16"-DN 25-SW	1"	1 5/16"-12	74	38	38	MMS-HY-01509



HYDRAULIC CRIMP FITTINGS

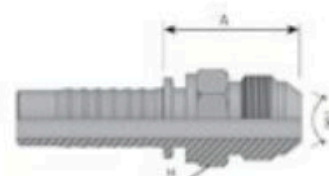
HYDRAULIC PRESS COUPLING SAE BOSS - MALE - 90° COMPACT

Description	Hoses	Thread	A mm	B mm	Hexagon	H1	REF
AG-SAE-7/16"-DN 06K-SW	1/4"	7/16"-20	23	52	22	17	MMS-HY-01510
AG-SAE-9/16"-DN 06K-SW	1/4"	9/16"-18	23	54.4	22	22	MMS-HY-01511
AG-SAE-7/16"-DN 10K-SW	3/8"	7/16"-20	23	52	22	17	MMS-HY-01512
AG-SAE-9/16"-DN 10K-SW	3/8"	9/16"-18	23	54.4	22	22	MMS-HY-01513
AG-SAE-3/4"-DN 10K-SW	3/8"	3/4"-16	23	57.5	22	27	MMS-HY-01514
AG-SAE-9/16"-DN 12K-SW	1/2"	9/16"-18	23.5	54.4	22	22	MMS-HY-01515
AG-SAE-3/4"-DN 12K-SW	1/2"	3/4"-16	23.5	57.5	22	27	MMS-HY-01516
AG-SAE-1 1/16"-DN 12K-SW	1/2"	1 1/16"-12	23.5	71.5	27	32	MMS-HY-01517
AG-SAE-1 1/16"-DN 19K-SW	3/4"	1 1/16"-12	25	71.5	27	32	MMS-HY-01518
AG-SAE-1 5/16"-DN 25K-SW	1"	1 5/16"-12	32.5	72.5	33	38	MMS-HY-01519



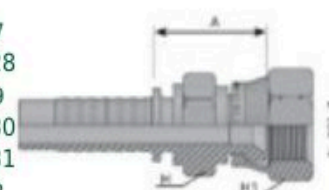
HYDRAULIC PRESS COUPLING SAE 45 - MALE

Description	Hoses	Thread	A mm	Hexagon	REF
AGJ-SAE-7/16"-DN 06	1/4"	7/16"-20	25.2	14	MMS-HY-01520
AGJ-SAE-1/2"-DN 06	1/4"	1/2"-20	-	14	MMS-HY-01521
AGJ-SAE-5/8"-DN 10	3/8"	5/8"-18	29	17	MMS-HY-01522
AGJ-SAE-3/4"-DN 10	3/8"	3/4"-16	30.5	19	MMS-HY-01523
AGJ-SAE-3/4"-DN 12	1/2"	3/4"-16	31	19	MMS-HY-01524
AGJ-SAE-7/8"-DN 12	1/2"	7/8"-14	35	24	MMS-HY-01525
AGJ-SAE-1 1/16"-DN 19	3/4"	1 1/16"-14	40.5	30	MMS-HY-01526



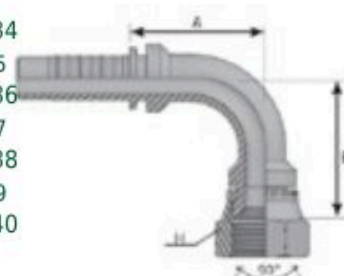
HYDRAULIC PRESS COUPLING SAE 45 - FEMALE - DOUBLE HEXAGON

Description	Hoses	Thread	A mm	Hexagon	H1	REF
DKJ-SAE-7/16"-DN 06-HEX	1/4"	7/16"-20	20.7	14	14	MMS-HY-01527
DKJ-SAE-1/2"-DN 06-HEX	1/4"	1/2"-20	21.4	14	17	MMS-HY-01528
DKJ-SAE-5/8"-DN 10-HEX	3/8"	5/8"-18	25.2	17	22	MMS-HY-01529
DKJ-SAE-3/4"-DN 10-HEX	3/8"	3/4"-16	27.3	19	22	MMS-HY-01530
DKJ-SAE-3/4"-DN 12-HEX	1/2"	3/4"-16	27.8	19	22	MMS-HY-01531
DKJ-SAE-7/8"-DN 12-HEX	1/2"	7/8"-14	29.5	22	-	MMS-HY-01532
DKJ-SAE-1 1/16"-DN 19-HEX	3/4"	1 1/16"-14	35	27	32	MMS-HY-01533

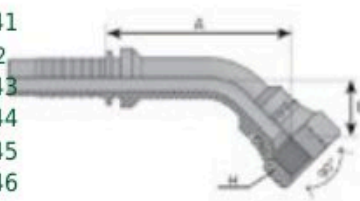


HYDRAULIC PRESS COUPLING SAE 45 - 90°

Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKJ-SAE-7/16"-90°-DN 06	1/4"	7/16"-20	23	26	15	MMS-HY-01534
DKJ-SAE-1/2"-90°-DN 06	1/4"	1/2"-20	23	27	17	MMS-HY-01535
DKJ-SAE-5/8"-90°-DN 08	5/16"	5/8"-18	31.5	32.5	22	MMS-HY-01536
DKJ-SAE-5/8"-90°-DN 10	3/8"	5/8"-18	33	35.5	22	MMS-HY-01537
DKJ-SAE-3/4"-90°-DN 10	3/8"	3/4"-16	33	36.5	24	MMS-HY-01538
DKJ-SAE-3/4"-90°-DN 12	1/2"	3/4"-16	39	41	24	MMS-HY-01539
DKJ-SAE-1 1/16"-90°-DN 19	3/4"	1 1/16"-14	53.5	58	32	MMS-HY-01540

**HYDRAULIC PRESS COUPLING SAE 45 - FEMALE - 45°**

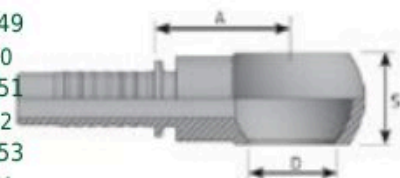
Description	Hoses	Thread	A mm	B mm	Hexagon	REF
DKJ-SAE-7/16"-45°-DN 06	1/4"	7/16"-20	38	15	15	MMS-HY-01541
DKJ-SAE-1/2"-45°-DN 06	1/4"	1/2"-20	40	17	17	MMS-HY-01542
DKJ-SAE-5/8"-45°-DN 10	3/8"	5/8"-18	54	19	22	MMS-HY-01543
DKJ-SAE-3/4"-45°-DN 10	3/8"	3/4"-16	54	19	24	MMS-HY-01544
DKJ-SAE-3/4"-45°-DN 12	1/2"	3/4"-16	62	20	24	MMS-HY-01545
DKJ-SAE-7/8"-45°-DN 12	1/2"	7/8"-14	63	21	27	MMS-HY-01546
DKJ-SAE-1 1/16"-45°-DN 12	1/2"	1 1/16"-14	64	22	32	MMS-HY-01547
DKJ-SAE-1 1/16"-45°-DN 19	3/4"	1 1/16"-14	62	29	32	MMS-HY-01548



HYDRAULIC CRIMP FITTINGS

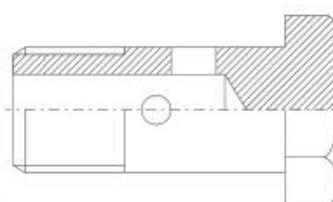
BANJOS - BSP

Description	Hoses	Thread	D mm	A mm	S mm	REF
RNR-1/8"-DN 05	3/16"	1/8"	10	19.5	10	MMS-HY-01549
RNR-1/4"-DN 05	3/16"	1/4"	13.2	22.5	14	MMS-HY-01550
RNR-1/8"-DN 06	1/4"	1/8"	10	24	10	MMS-HY-01551
RNR-1/4"-DN 06	1/4"	1/4"	13.2	23	14	MMS-HY-01552
RNR-3/8"-DN 06	1/4"	3/8"	16.7	26.5	17	MMS-HY-01553
RNR-1/2"-DN 06	1/4"	1/2"	21	32.5	22	MMS-HY-01554
RNR-1/4"-DN 08	5/16"	1/4"	13.2	24	14	MMS-HY-01555
RNR-3/8"-DN 08	5/16"	3/8"	16.7	26.5	17	MMS-HY-01556
RNR-1/2"-DN 08	5/16"	1/2"	21	27.5	22	MMS-HY-01557
RNR-1/4"-DN 10	3/8"	1/4"	13.2	31.5	14	MMS-HY-01558
RNR-3/8"-DN 10	3/8"	3/8"	16.7	26.5	17	MMS-HY-01559
RNR-1/2"-DN 10	3/8"	1/2"	21	27.5	22	MMS-HY-01560
RNR-3/8"-DN 12	1/2"	3/8"	16.7	31	17	MMS-HY-01561
RNR-1/2"-DN 12	1/2"	1/2"	21	33	22	MMS-HY-01562
RNR-5/8"-DN 12	1/2"	5/8"	23.3	32.5	25	MMS-HY-01563
RNR-3/4"-DN 12	1/2"	3/4"	26.5	34.5	30	MMS-HY-01564
RNR-1/2"-DN 16	5/8"	1/2"	21	31.5	22	MMS-HY-01565
RNR-5/8"-DN 16	5/8"	5/8"	23.3	32.5	25	MMS-HY-01566
RNR-3/4"-DN 16	5/8"	3/4"	26.5	34.5	30	MMS-HY-01567
RNR-3/4"-DN 19	3/4"	3/4"	26.5	35	30	MMS-HY-01568
RNR-1"-DN 19	3/4"	1"	33.4	48	38	MMS-HY-01569
RNR-3/4"-DN 25	1"	3/4"	26.5	35	30	MMS-HY-01570
RNR-1"-DN 25	1"	1"	33.4	43	38	MMS-HY-01571
RNR-1 1/4"-DN 31	1 1/4"	1 1/4"	42.1	57.7	47	MMS-HY-01572



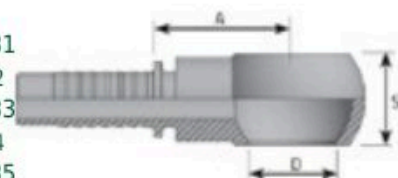
BSP BANJO BOLT

Description	Thread (BSP)	REF
BB-1/8" BSP	1/8" - 28	MMS-HY-01573
BB-1/4" BSP	1/4" - 19	MMS-HY-01574
BB-3/8" BSP	3/8" - 19	MMS-HY-01575
BB-1/2" BSP	1/2" - 14	MMS-HY-01576
BB-5/8" BSP	5/8" - 14	MMS-HY-01577
BB-3/4" BSP	3/4" - 14	MMS-HY-01578
BB-1" BSP	1" - 11	MMS-HY-01579
BB-1 1/4" BSP	1 1/4" - 11	MMS-HY-01580

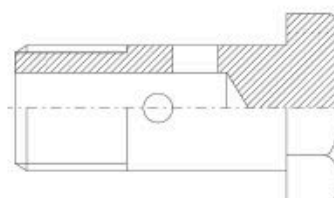


BANJOS - METRIC

Description	Hoses	Thread	A mm	S mm	D mm	REF
RNM-M10X1-DN 05	3/16"	M10 x 1	19.5	10	10.1	MMS-HY-01581
RNM-M12X1.5-DN 05	3/16"	M12 x 1.5	21	12	12.1	MMS-HY-01582
RNM-M14X1.5-DN 05	3/16"	M14 x 1.5	23	14	14.1	MMS-HY-01583
RNM-M10X1-DN 06	1/4"	M10 x 1	24	10	10.1	MMS-HY-01584
RNM-M12X1.5-DN 06	1/4"	M12 x 1.5	23	11	12.1	MMS-HY-01585
RNM-M14X1.5-DN 06	1/4"	M14 x 1.5	23	14	14.1	MMS-HY-01586
RNM-M16X1.5-DN 06	1/4"	M16 x 1.5	25	17	16.1	MMS-HY-01587
RNM-M18X1.5-DN 06	1/4"	M18 x 1.5	29	20	18.1	MMS-HY-01588
RNM-M12X1.5-DN 08	5/16"	M12 x 1.5	23	12	12.1	MMS-HY-01589
RNM-M14X1.5-DN 08	5/16"	M14 x 1.5	24.5	14	14.1	MMS-HY-01590
RNM-M16X1.5-DN 08	5/16"	M16 x 1.5	27	17	16.1	MMS-HY-01591
RNM-M18X1.5-DN 08	5/16"	M18 x 1.5	29	20	18.1	MMS-HY-01592
RNM-M20X1.5-DN 08	5/16"	M20 x 1.5	28	22	20.1	MMS-HY-01593
RNM-M22X1.5-DN 08	5/16"	M22 x 1.5	28	22	22.1	MMS-HY-01594
RNM-M14X1.5-DN 10	3/8"	M14 x 1.5	27	14	14.1	MMS-HY-01595
RNM-M16X1.5-DN 10	3/8"	M16 x 1.5	27	17	16.1	MMS-HY-01596
RNM-M18X1.5-DN 10	3/8"	M18 x 1.5	28	20	18.1	MMS-HY-01597
RNM-M20X1.5-DN 10	3/8"	M20 x 1.5	28.5	22	20.1	MMS-HY-01598
RNM-M22X1.5-DN 10	3/8"	M22 x 1.5	28.5	22	22.1	MMS-HY-01599
RNM-M18X1.5-DN 12	1/2"	M18 x 1.5	30	20	18.1	MMS-HY-01600
RNM-M20X1.5-DN 12	1/2"	M20 x 1.5	34	22	20.1	MMS-HY-01601
RNM-M22X1.5-DN 12	1/2"	M22 x 1.5	34	22	22.1	MMS-HY-01602
RNM-M26X1.5-DN 12	1/2"	M26 x 1.5	34.5	30	26.5	MMS-HY-01603
RNM-M22X1.5-DN 16	5/8"	M22 x 1.5	34	22	22.1	MMS-HY-01604
RNM-M26X1.5-DN 16	5/8"	M26 x 1.5	34.5	30	26.5	MMS-HY-01605
RNM-M26X1.5-DN 19	3/4"	M26 x 1.5	35	30	26.5	MMS-HY-01606
RNM-M30X1.5-DN 19	3/4"	M30 x 1.5	41.5	36	30.1	MMS-HY-01607
RNM-M30X1.5-DN 25	1"	M30 x 1.5	41.5	36	30.1	MMS-HY-01608

**METRIC BANJO BOLT**

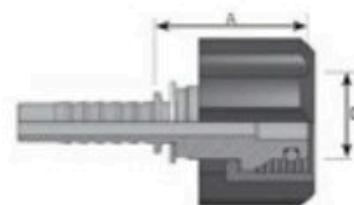
Description	Thread (Metric)	REF
BB-M10x1.5	M10 x 1.5	MMS-HY-01609
BB-M12x1.5	M12 x 1.5	MMS-HY-01610
BB-M14x1.5	M14 x 1.5	MMS-HY-01611
BB-M16x1.5	M16 x 1.5	MMS-HY-01612
BB-M18x1.5	M18 x 1.5	MMS-HY-01613
BB-M22x1.5	M22 x 1.5	MMS-HY-01614
BB-M26x1.5	M26 x 1.5	MMS-HY-01615
BB-M30x1.5	M30 x 1.5	MMS-HY-01616



HYDRAULIC CRIMP FITTINGS

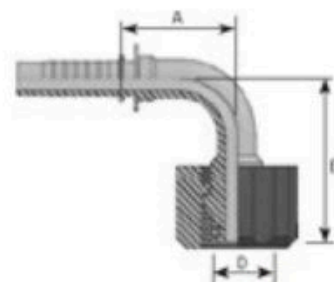
HOSE COUPLING

Description	Hoses	Thread	A mm	D mm	REF
KAE-M22X1.5-DN 06-33-14	1/4"	M22 x 1.5	33	14	MMS-HY-01617
KAE-M22X1.5-DN 06-33-15	1/4"	M22 x 1.5	33	15	MMS-HY-01618
KAE-M22X1.5-DN 06-40-15	1/4"	M22 x 1.5	40	15	MMS-HY-01619
KAE-M22X1.5-DN 08-33-14	5/16"	M22 x 1.5	33	14	MMS-HY-01620
KAE-M22X1.5-DN 08-33-15	5/16"	M22 x 1.5	33	15	MMS-HY-01621
KAE-M22X1.5-DN 08-40-15	5/16"	M22 x 1.5	40	15	MMS-HY-01622
KAE-M22X1.5-DN 10-33-14	3/8"	M22 x 1.5	33	14	MMS-HY-01623
KAE-M22X1.5-DN 10-33-15	3/8"	M22 x 1.5	33	15	MMS-HY-01624



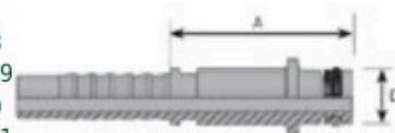
HOSE COUPLING - FEMALE - 90°

Description	Hoses	Thread	A mm	B mm	REF
KAE-M22X1.5-90°-DN 06-27.5-14	1/4"	M22 x 1.5	27.5	44.5	MMS-HY-01625
KAE-M22X1.5-90°-DN 08-32-14	5/16"	M22 x 1.5	32	44.5	MMS-HY-01626
KAE-M22X1.5-90°-DN 10-32-14	3/8"	M22 x 1.5	32	47	MMS-HY-01627



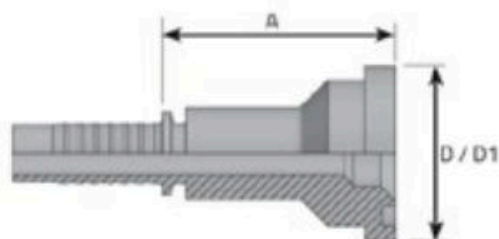
HOSE COUPLING - MALE

Description	Hoses	Tube-Ø	A mm	D mm	Hexagon	REF
KAE-JEB-DN 06-33.5-10	1/4"	6.4	33.5	10	24	MMS-HY-01628
KAE-JEB-DN 06-33.5-11	1/4"	6.4	33.5	11	24	MMS-HY-01629
KAE-JEB-DN 08-33.5-10	5/16"	7.9	33.5	10	24	MMS-HY-01630
KAE-JEB-DN 08-33.5-11	5/16"	7.9	33.5	11	30	MMS-HY-01631

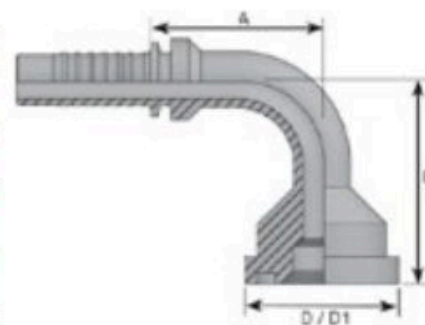


FLANGE CODE 61 - 3000 PSI

Description	Hoses	D	D1 mm	A mm	REF
SFL-3-1/2"-DN 12	1/2"	1/2"	30.2	49	MMS-HY-01632
SFL-3-5/8"-DN 12	1/2"	5/8"	34	48	MMS-HY-01633
SFL-3-3/4"-DN 12	1/2"	3/4"	38.1	52	MMS-HY-01634
SFL-3-1/2"-DN 16	5/8"	1/2"	30.2	49	MMS-HY-01635
SFL-3-5/8"-DN 16	5/8"	5/8"	34	49	MMS-HY-01636
SFL-3-3/4"-DN 16	5/8"	3/4"	38.1	48	MMS-HY-01637
SFL-3-1/2"-DN 19	3/4"	1/2"	30.2	47	MMS-HY-01638
SFL-3-3/4"-DN 19	3/4"	3/4"	38.1	47	MMS-HY-01639
SFL-3-1"-DN 19	3/4"	1"	44.5	50	MMS-HY-01640
SFL-3-3/4"-DN 25	1"	3/4"	38.1	50	MMS-HY-01641
SFL-3-1"-DN 25	1"	1"	44.5	50	MMS-HY-01642
SFL-3-1 1/4"-DN 25	1"	1 1/4"	50.8	67	MMS-HY-01643
SFL-3-1"-DN 31	1 1/4"	1"	44.5	57	MMS-HY-01644
SFL-3-1 1/4"-DN 31	1 1/4"	1 1/4"	50.8	65	MMS-HY-01645
SFL-3-1 1/2"-DN 31	1 1/4"	1 1/2"	60.3	70	MMS-HY-01646
SFL-3-1 1/2"-DN 38	1 1/2"	1 1/2"	60.3	70	MMS-HY-01647
SFL-3-2"-DN 38	1 1/2"	2"	71.4	72	MMS-HY-01648
SFL-3-2"-DN 51	2"	2"	71.4	73	MMS-HY-01649

**FLANGE CODE 61 - 90° ELBOW - 3000 PSI**

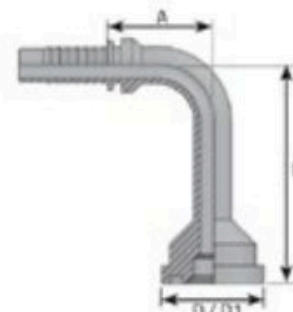
Description	Hoses	D	D1 mm	A mm	B mm	REF
SFL-3-1/2"-90°-DN 12	1/2"	1/2"	30.2	39	43	MMS-HY-01650
SFL-3-5/8"-90°-DN 12	1/2"	5/8"	34	39	47	MMS-HY-01651
SFL-3-3/4"-90°-DN 12	1/2"	3/4"	38.1	39	50	MMS-HY-01652
SFL-3-1/2"-90°-DN 16	5/8"	1/2"	30.2	49	49	MMS-HY-01653
SFL-3-5/8"-90°-DN 16	5/8"	5/8"	34	49	52	MMS-HY-01654
SFL-3-3/4"-90°-DN 16	5/8"	3/4"	38.1	49	55	MMS-HY-01655
SFL-3-1/2"-90°-DN 19	3/4"	1/2"	30.2	57	52	MMS-HY-01656
SFL-3-3/4"-90°-DN 19	3/4"	3/4"	38.1	57	58	MMS-HY-01657
SFL-3-1"-90°-DN 19	3/4"	1"	44.5	57	62	MMS-HY-01658
SFL-3-3/4"-90°-DN 25	1"	3/4"	38.1	77	60	MMS-HY-01659
SFL-3-1"-90°-DN 25	1"	1"	44.5	77	64	MMS-HY-01660
SFL-3-1 1/4"-90°-DN 25	1"	1 1/4"	50.8	77	70	MMS-HY-01661
SFL-3-1"-90°-DN 31	1 1/4"	1"	44.5	89	82	MMS-HY-01662
SFL-3-1 1/4"-90°-DN 31	1 1/4"	1 1/4"	50.8	89	87	MMS-HY-01663
SFL-3-1 1/2"-90°-DN 31	1 1/4"	1 1/2"	60.3	89	88	MMS-HY-01664
SFL-3-1 1/2"-90°-DN 38	1 1/2"	1 1/2"	60.3	101	102	MMS-HY-01665
SFL-3-2"-90°-DN 38	1 1/2"	2"	71.4	101	118	MMS-HY-01666
SFL-3-2"-90°-DN 51	2"	2"	71.4	144	120	MMS-HY-01667



HYDRAULIC CRIMP FITTINGS

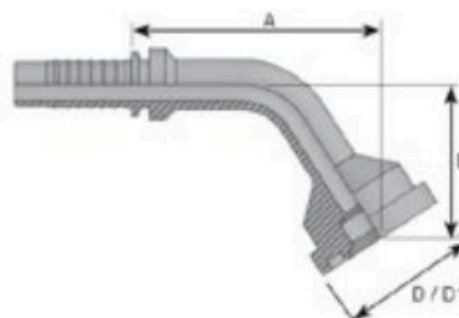
SAE FLANGE 3000 PSI - 90° LONG DROP

Description	Hoses	D S.A.E	D1 mm	A mm	B mm	REF
SFL-3-3/4"-90°-DN 19L	3/4"	3/4"	38.1	57	96.8	MMS-HY-01668
SFL-3-1"-90°-DN 19L	3/4"	1"	44.5	57	134.5	MMS-HY-01669
SFL-3-1"-90°-DN 25L	1"	1"	44.5	77	115.5	MMS-HY-01670
SFL-3-1 1/4"-90°-DN 31L	1 1/4"	1 1/4"	50.8	89	114.2	MMS-HY-01671
SFL-3-1 1/2"-90°-DN 38L	1 1/2"	1 1/2"	60.3	101	131.4	MMS-HY-01672



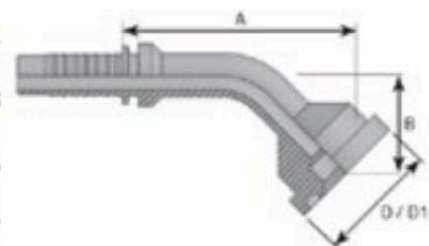
SAE FLANGE 3000 PSI - 60°

Description	Hoses	D S.A.E	D1 mm	A mm	REF
SFL-3-1/2"-60°-DN 12	1/2"	1/2"	30.2	63	MMS-HY-01673
SFL-3-5/8"-60°-DN 12	1/2"	5/8"	34	68	MMS-HY-01674
SFL-3-3/4"-60°-DN 12	1/2"	3/4"	38.1	68	MMS-HY-01675
SFL-3-1/2"-60°-DN 16	5/8"	1/2"	30.2	59	MMS-HY-01676
SFL-3-5/8"-60°-DN 16	5/8"	5/8"	34	63	MMS-HY-01677
SFL-3-3/4"-60°-DN 16	5/8"	3/4"	38.1	63	MMS-HY-01678
SFL-3-1/2"-60°-DN 19	3/4"	1/2"	30.2	63	MMS-HY-01679
SFL-3-3/4"-60°-DN 19	3/4"	3/4"	38.1	67	MMS-HY-01680
SFL-3-1"-60°-DN 19	3/4"	1"	44.5	70	MMS-HY-01681
SFL-3-3/4"-60°-DN 25	1"	3/4"	38.1	83	MMS-HY-01682
SFL-3-1"-60°-DN 25	1"	1"	44.5	86	MMS-HY-01683
SFL-3-1 1/4"-60°-DN 25	1"	1 1/4"	50.8	90	MMS-HY-01684
SFL-3-1"-60°-DN 31	1 1/4"	1"	44.5	96	MMS-HY-01685
SFL-3-1 1/4"-60°-DN 31	1 1/4"	1 1/4"	50.8	100	MMS-HY-01686
SFL-3-1 1/2"-60°-DN 31	1 1/4"	1 1/2"	60.3	101	MMS-HY-01687
SFL-3-1 1/2"-60°-DN 38	1 1/2"	1 1/2"	60.3	112	MMS-HY-01688
SFL-3-2"-60°-DN 38	1 1/2"	2"	71.4	123	MMS-HY-01689
SFL-3-2"-60°-DN 51	2"	2"	71.4	148	MMS-HY-01690

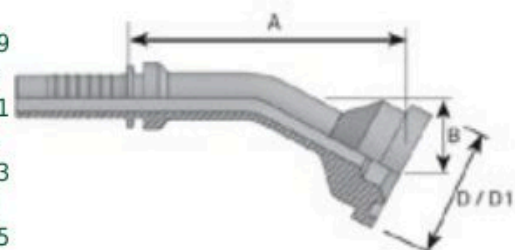


FLANGE CODE 61 - 45° ELBOW - 3000 PSI

Description	Hoses	D S.A.E	D1 mm	A mm	B mm	REF
SFL-3-1/2"-45°-DN 12	1/2"	1/2"	30.2	63	23	MMS-HY-01691
SFL-3-5/8"-45°-DN 12	1/2"	5/8"	34	68	25	MMS-HY-01692
SFL-3-3/4"-45°-DN 12	1/2"	3/4"	38.1	68	28	MMS-HY-01693
SFL-3-1/2"-45°-DN 16	5/8"	1/2"	30.2	59	26	MMS-HY-01694
SFL-3-5/8"-45°-DN 16	5/8"	5/8"	34	63	30	MMS-HY-01695
SFL-3-3/4"-45°-DN 16	5/8"	3/4"	38.1	63	30	MMS-HY-01696
SFL-3-1/2"-45°-DN 19	3/4"	1/2"	30.2	63	28	MMS-HY-01697
SFL-3-3/4"-45°-DN 19	3/4"	3/4"	38.1	67	32	MMS-HY-01698
SFL-3-1"-45°-DN 19	3/4"	1"	44.5	70	35	MMS-HY-01699
SFL-3-3/4"-45°-DN 25	1"	3/4"	38.1	83	35	MMS-HY-01700
SFL-3-1"-45°-DN 25	1"	1"	44.5	86	35	MMS-HY-01701
SFL-3-1 1/4"-45°-DN 25	1"	1 1/4"	50.8	90	36	MMS-HY-01702
SFL-3-1"-45°-DN 31	1 1/4"	1"	44.5	96	36	MMS-HY-01703
SFL-3-1 1/4"-45°-DN 31	1 1/4"	1 1/4"	50.8	100	43	MMS-HY-01704
SFL-3-1 1/2"-45°-DN 31	1 1/4"	1 1/2"	60.3	101	44	MMS-HY-01705
SFL-3-1 1/2"-45°-DN 38	1 1/2"	1 1/2"	60.3	112	41	MMS-HY-01706
SFL-3-2"-45°-DN 38	1 1/2"	2"	71.4	123	52	MMS-HY-01707
SFL-3-2"-45°-DN 51	2"	2"	71.4	148	59	MMS-HY-01708

**SAE FLANGE 3000 PSI - 30°**

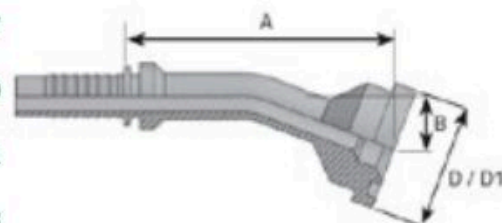
Description	Hoses	D S.A.E	D1 mm	A mm	REF
SFL-3-1/2"-30°-DN 12	1/2"	1/2"	30.2	63	MMS-HY-01709
SFL-3-5/8"-30°-DN 12	1/2"	5/8"	34	68	MMS-HY-01710
SFL-3-3/4"-30°-DN 12	1/2"	3/4"	38.1	68	MMS-HY-01711
SFL-3-1/2"-30°-DN 16	5/8"	1/2"	30.2	59	MMS-HY-01712
SFL-3-5/8"-30°-DN 16	5/8"	5/8"	34	63	MMS-HY-01713
SFL-3-3/4"-30°-DN 16	5/8"	3/4"	38.1	63	MMS-HY-01714
SFL-3-1/2"-30°-DN 19	3/4"	1/2"	30.2	63	MMS-HY-01715
SFL-3-3/4"-30°-DN 19	3/4"	3/4"	38.1	67	MMS-HY-01716
SFL-3-1"-30°-DN 19	3/4"	1"	44.5	70	MMS-HY-01717
SFL-3-3/4"-30°-DN 25	1"	3/4"	38.1	83	MMS-HY-01718
SFL-3-1"-30°-DN 25	1"	1"	44.5	86	MMS-HY-01719
SFL-3-1 1/4"-30°-DN 25	1"	1 1/4"	50.8	90	MMS-HY-01720
SFL-3-1"-30°-DN 31	1 1/4"	1"	44.5	96	MMS-HY-01721
SFL-3-1 1/4"-30°-DN 31	1 1/4"	1 1/4"	50.8	100	MMS-HY-01722
SFL-3-1 1/2"-30°-DN 31	1 1/4"	1 1/2"	60.3	101	MMS-HY-01723
SFL-3-1 1/2"-30°-DN 38	1 1/2"	1 1/2"	60.3	112	MMS-HY-01724
SFL-3-2"-30°-DN 38	1 1/2"	2"	71.4	123	MMS-HY-01725
SFL-3-2"-30°-DN 51	2"	2"	71.4	148	MMS-HY-01726



HYDRAULIC CRIMP FITTINGS

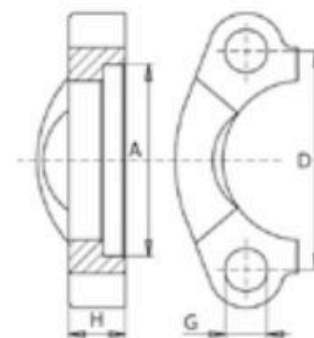
SAE FLANGE 3000 PSI - 22.5°

Description	Hoses	D S.A.E	D1 mm	A mm	REF
SFL-3-1/2"-22.5°-DN 12	1/2"	1/2"	30.2	63	MMS-HY-01727
SFL-3-5/8"-22.5°-DN 12	1/2"	5/8"	34	68	MMS-HY-01728
SFL-3-3/4"-22.5°-DN 12	1/2"	3/4"	38.1	68	MMS-HY-01729
SFL-3-1/2"-22.5°-DN 16	5/8"	1/2"	30.2	59	MMS-HY-01730
SFL-3-5/8"-22.5°-DN 16	5/8"	5/8"	34	63	MMS-HY-01731
SFL-3-3/4"-22.5°-DN 16	5/8"	3/4"	38.1	63	MMS-HY-01732
SFL-3-1/2"-22.5°-DN 19	3/4"	1/2"	30.2	63	MMS-HY-01733
SFL-3-3/4"-22.5°-DN 19	3/4"	3/4"	38.7	67	MMS-HY-01734
SFL-3-1"-22.5°-DN 19	3/4"	1"	44.5	70	MMS-HY-01735
SFL-3-3/4"-22.5°-DN 25	1"	3/4"	38.1	83	MMS-HY-01736
SFL-3-1"-22.5°-DN 25	1"	1"	44.5	86	MMS-HY-01737
SFL-3-1 1/4"-22.5°-DN 25	1"	1 1/4"	50.8	90	MMS-HY-01738
SFL-3-1"-22.5°-DN 31	1 1/4"	1"	44.5	96	MMS-HY-01739
SFL-3-1 1/4"-22.5°-DN 31	1 1/4"	1 1/4"	50.8	100	MMS-HY-01740
SFL-3-1 1/2"-22.5°-DN 31	1 1/4"	1 1/2"	60.3	101	MMS-HY-01741
SFL-3-1 1/2"-22.5°-DN 38	1 1/2"	1 1/2"	60.3	112	MMS-HY-01742
SFL-3-2"-22.5°-DN 38	1 1/2"	2"	71.4	123	MMS-HY-01743
SFL-3-2"-22.5°-DN 51	2"	2"	71.4	148	MMS-HY-01744



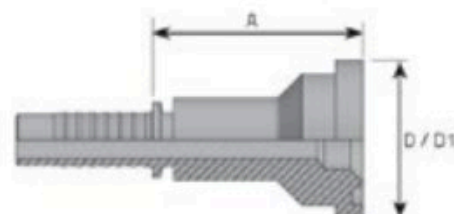
SAE SPLIT FLANGES 3000 PSI

Description	S.A.E.	A mm	D mm	G mm	H mm	REF
FH-3-1/2"	1/2"	31	38.10	8.75	13	MMS-HY-01745
FH-3-3/4"	3/4"	38.9	47.63	10.5	14	MMS-HY-01746
FH-3-1"	1"	45.2	52.37	10.5	16	MMS-HY-01747
FH-3-1 1/4"	1 1/4"	51.6	58.72	12	14	MMS-HY-01748
FH-3-1 1/2"	1 1/2"	61.1	69.85	13.5	16	MMS-HY-01749
FH-3-2"	2"	72.2	77.77	13.5	16	MMS-HY-01750

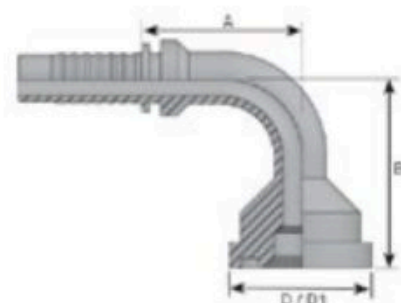


FLANGE CODE 62 - 45° ELBOW - 6000 PSI

Description	Hoses	D S.A.E	D1 mm	A mm	REF
SFS-6-1/2"-DN 12	1/2"	1/2"	31.7	50	MMS-HY-01751
SFS-6-3/4"-DN 12	1/2"	3/4"	41.3	55	MMS-HY-01752
SFS-6-1/2"-DN 16	5/8"	1/2"	31.7	50	MMS-HY-01753
SFS-6-3/4"-DN 16	5/8"	3/4"	41.3	51	MMS-HY-01754
SFS-6-1/2"-DN 19	3/4"	1/2"	31.7	53	MMS-HY-01755
SFS-6-3/4"-DN 19	3/4"	3/4"	41.3	53	MMS-HY-01756
SFS-6-1"-DN 19	3/4"	1"	47.6	64	MMS-HY-01757
SFS-6-3/4"-DN 25	1"	3/4"	41.3	64	MMS-HY-01758
SFS-6-1"-DN 25	1"	1"	47.6	66	MMS-HY-01759
SFS-6-1 1/4"-DN 25	1"	1 1/4"	54	71	MMS-HY-01760
SFS-6-1"-DN 31	1 1/4"	1"	47.6	66	MMS-HY-01761
SFS-6-1 1/4"-DN 31	1 1/4"	1 1/4"	54	67	MMS-HY-01762
SFS-6-1 1/2"-DN 31	1 1/4"	1 1/2"	63.5	78	MMS-HY-01763
SFS-6-1 1/2"-DN 38	1 1/2"	1 1/2"	63.5	78	MMS-HY-01764
SFS-6-2"-DN 38	1 1/2"	2"	79.4	73	MMS-HY-01765
SFS-6-2"-DN 51	2"	2"	79.4	73	MMS-HY-01766

**FLANGE CODE 62 - 90° ELBOW - 6000 PSI**

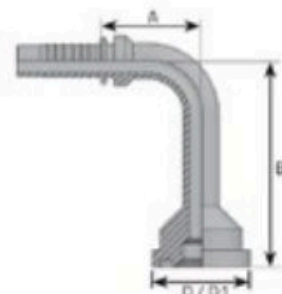
Description	Hoses	D S.A.E	D1 mm	A mm	B mm	REF
SFS-6-1/2"-90°-DN 12	1/2"	1/2"	31.7	39	44	MMS-HY-01767
SFS-6-3/4"-90°-DN 12	1/2"	3/4"	41.3	39	51	MMS-HY-01768
SFS-6-1/2"-90°-DN 16	5/8"	1/2"	31.7	49	50	MMS-HY-01769
SFS-6-3/4"-90°-DN 16	5/8"	3/4"	41.3	49	59	MMS-HY-01770
SFS-6-1/2"-90°-DN 19	3/4"	1/2"	31.7	57	53	MMS-HY-01771
SFS-6-3/4"-90°-DN 19	3/4"	3/4"	41.3	57	62	MMS-HY-01772
SFS-6-1"-90°-DN 19	3/4"	1"	47.6	57	67	MMS-HY-01773
SFS-6-3/4"-90°-DN 25	1"	3/4"	41.3	77	64	MMS-HY-01774
SFS-6-1"-90°-DN 25	1"	1"	47.6	77	69	MMS-HY-01775
SFS-6-1 1/4"-90°-DN 25	1"	1 1/4"	54	77	73	MMS-HY-01776
SFS-6-1"-90°-DN 31	1 1/4"	1"	47.6	89	87	MMS-HY-01777
SFS-6-1 1/4"-90°-DN 31	1 1/4"	1 1/4"	54	89	93	MMS-HY-01778
SFS-6-1 1/2"-90°-DN 31	1 1/4"	1 1/2"	63.5	89	97	MMS-HY-01779
SFS-6-1 1/2"-90°-DN 38	1 1/2"	1 1/2"	63.5	101	111	MMS-HY-01780
SFS-6-2"-90°-DN 38	1 1/2"	2"	79.4	101	126	MMS-HY-01781
SFS-6-2"-90°-DN 51	2"	2"	79.4	144	128	MMS-HY-01782



HYDRAULIC CRIMP FITTINGS

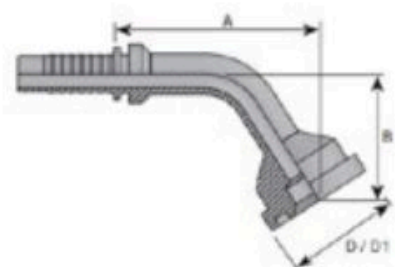
SAE FLANGE 6000 PSI - 90° LONG DROP

Description	Hoses	D S.A.E	D1 mm	A mm	B mm	REF
SFS-6-3/4"-90°-DN 19L	3/4"	3/4"	41.3	57	100	MMS-HY-01783
SFS-6-1"-90°-DN 19L	3/4"	1"	47.6	57	137	MMS-HY-01784
SFS-6-1"-90°-DN 25L	1"	1"	57.6	77	120	MMS-HY-01785
SFS-6-1 1/4"-90°-DN 31L	1 1/4"	1 1/4"	54	89	115	MMS-HY-01786
SFS-6-1 1/2"-90°-DN 38L	1 1/2"	1 1/2"	63.5	95	135	MMS-HY-01787



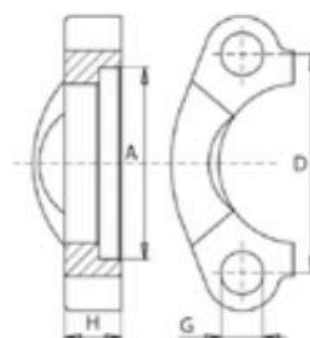
SAE FLANGE 6000 PSI - 60°

Description	Hoses	D S.A.E	D1 mm	A mm	REF
SFS-6-1/2"-60°-DN 12	1/2"	1/2"	31.7	64	MMS-HY-01788
SFS-6-3/4"-60°-DN 12	1/2"	3/4"	41.3	69	MMS-HY-01789
SFS-6-1/2"-60°-DN 16	5/8"	1/2"	31.7	60	MMS-HY-01790
SFS-6-3/4"-60°-DN 16	5/8"	3/4"	41.3	66	MMS-HY-01791
SFS-6-1/2"-60°-DN 19	3/4"	1/2"	31.7	64	MMS-HY-01792
SFS-6-3/4"-60°-DN 19	3/4"	3/4"	41.3	70	MMS-HY-01793
SFS-6-1"-60°-DN 19	3/4"	1"	47.6	74	MMS-HY-01794
SFS-6-3/4"-60°-DN 25	1"	3/4"	41.3	86	MMS-HY-01795
SFS-6-1"-60°-DN 25	1"	1"	47.6	89	MMS-HY-01796
SFS-6-1 1/4"-60°-DN 25	1"	1 1/4"	54	94	MMS-HY-01797
SFS-6-1"-60°-DN 31	1 1/4"	1"	47.6	100	MMS-HY-01798
SFS-6-1 1/4"-60°-DN 31	1 1/4"	1 1/4"	54	104	MMS-HY-01799
SFS-6-1 1/2"-60°-DN 31	1 1/4"	1 1/2"	63.5	107	MMS-HY-01800
SFS-6-1 1/2"-60°-DN 38	1 1/2"	1 1/2"	63.5	118	MMS-HY-01801
SFS-6-2"-60°-DN 38	1 1/2"	2"	79.4	119	MMS-HY-01802
SFS-6-2"-60°-DN 51	2"	2"	79.4	153	MMS-HY-01803



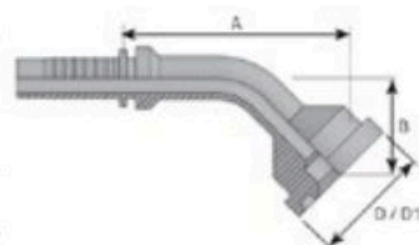
SAE SPLIT FLANGES 6000 PSI

Description	S.A.E.	A mm	D mm	G mm	H mm	REF
FH-6-1/2"	1/2"	32.5	40.49	8.75	16	MMS-HY-01804
FH-6-3/4"	3/4"	42	50.80	10.5	19	MMS-HY-01805
FH-6-1"	1"	48.4	57.15	13	24	MMS-HY-01806
FH-6-1 1/4"	1 1/4"	54.8	66.68	15	27	MMS-HY-01807
FH-6-1 1/2"	1 1/2"	64.3	79.38	17	30	MMS-HY-01808
FH-6-2"	2"	80.2	96.82	21	37	MMS-HY-01809

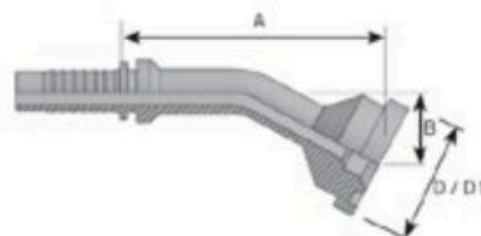


FLANGE CODE 62 - 6000 PSI - 45°

Description	Hoses	D S.A.E	D1 mm	A mm	B mm	REF
SFS-6-1/2"-45°-DN 12	1/2"	1/2"	31.7	64	23	MMS-HY-01810
SFS-6-3/4"-45°-DN 12	1/2"	3/4"	41.3	69	28	MMS-HY-01811
SFS-6-1/2"-45°-DN 16	5/8"	1/2"	31.7	60	26	MMS-HY-01812
SFS-6-3/4"-45°-DN 16	5/8"	3/4"	41.3	66	30	MMS-HY-01813
SFS-6-1/2"-45°-DN 19	3/4"	1/2"	31.7	64	28	MMS-HY-01814
SFS-6-3/4"-45°-DN 19	3/4"	3/4"	41.3	70	32	MMS-HY-01815
SFS-6-1"-45°-DN 19	3/4"	1"	47.6	74	35	MMS-HY-01816
SFS-6-3/4"-45°-DN 25	1"	3/4"	41.3	86	35	MMS-HY-01817
SFS-6-1"-45°-DN 25	1"	1"	47.6	89	32	MMS-HY-01818
SFS-6-1 1/4"-45°-DN 25	1"	1 1/4"	54	94	36	MMS-HY-01819
SFS-6-1"-45°-DN 31	1 1/4"	1"	47.6	100	36	MMS-HY-01820
SFS-6-1 1/4"-45°-DN 31	1 1/4"	1 1/4"	54	104	43	MMS-HY-01821
SFS-6-1 1/2"-45°-DN 31	1 1/4"	1 1/2"	63.5	107	44	MMS-HY-01822
SFS-6-1 1/2"-45°-DN 38	1 1/2"	1 1/2"	63.5	118	41	MMS-HY-01823
SFS-6-2"-45°-DN 38	1 1/2"	2"	79.4	119	52	MMS-HY-01824
SFS-6-2"-45°-DN 51	2"	2"	79.4	153	59	MMS-HY-01825

**SAE FLANGE 6000 PSI - 22.5°**

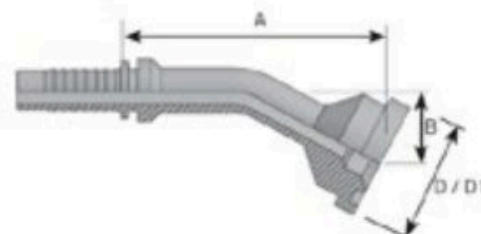
Description	Hoses	D S.A.E	D1 mm	A mm	REF
SFS-6-1/2"-22.5°-DN 12	1/2"	1/2"	31.7	64	MMS-HY-01826
SFS-6-3/4"-22.5°-DN 12	1/2"	3/4"	41.3	69	MMS-HY-01827
SFS-6-1/2"-22.5°-DN 16	5/8"	1/2"	31.7	60	MMS-HY-01828
SFS-6-3/4"-22.5°-DN 16	5/8"	3/4"	41.3	66	MMS-HY-01829
SFS-6-1/2"-22.5°-DN 19	3/4"	1/2"	31.7	64	MMS-HY-01830
SFS-6-3/4"-22.5°-DN 19	3/4"	3/4"	41.3	70	MMS-HY-01831
SFS-6-1"-22.5°-DN 19	3/4"	1"	47.6	74	MMS-HY-01832
SFS-6-3/4"-22.5°-DN 25	1"	3/4"	41.3	86	MMS-HY-01833
SFS-6-1"-22.5°-DN 25	1"	1"	47.6	89	MMS-HY-01834
SFS-6-1 1/4"-22.5°-DN 25	1"	1 1/4"	54	94	MMS-HY-01835
SFS-6-1"-22.5°-DN 31	1 1/4"	1"	47.6	100	MMS-HY-01836
SFS-6-1 1/4"-22.5°-DN 31	1 1/4"	1 1/4"	54	104	MMS-HY-01837
SFS-6-1 1/2"-22.5°-DN 31	1 1/4"	1 1/2"	63.5	107	MMS-HY-01838
SFS-6-1 1/2"-22.5°-DN 38	1 1/2"	1 1/2"	63.5	118	MMS-HY-01839
SFS-6-2"-22.5°-DN 38	1 1/2"	2"	79.4	119	MMS-HY-01840
SFS-6-2"-22.5°-DN 51	2"	2"	79.4	153	MMS-HY-01841



HYDRAULIC CRIMP FITTINGS

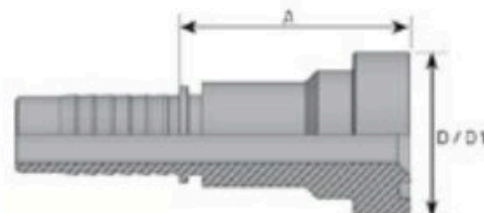
SAE SPLIT FLANGES 6000 PSI - 30°

Description	Hoses	D S.A.E	D1 mm	A mm	REF
SFS-6-1/2"-30-DN 12	1/2"	1/2"	31.7	64	MMS-HY-01842
SFS-6-3/4"-30-DN 12	1/2"	3/4"	41.3	69	MMS-HY-01843
SFS-6-1/2"-30-DN 16	5/8"	1/2"	31.7	60	MMS-HY-01844
SFS-6-3/4"-30-DN 16	5/8"	3/4"	41.3	66	MMS-HY-01845
SFS-6-1/2"-30-DN 19	3/4"	1/2"	31.7	64	MMS-HY-01846
SFS-6-3/4"-30-DN 19	3/4"	3/4"	41.3	70	MMS-HY-01847
SFS-6-1"-30-DN 19	3/4"	1"	47.6	74	MMS-HY-01848
SFS-6-3/4"-30-DN 25	1"	3/4"	41.3	86	MMS-HY-01849
SFS-6-1"-30-DN 25	1"	1"	47.6	89	MMS-HY-01850
SFS-6-1 1/4"-30-DN 25	1"	1 1/4"	54	94	MMS-HY-01851
SFS-6-1"-30-DN 31	1 1/4"	1"	47.6	100	MMS-HY-01852
SFS-6-1 1/4"-30-DN 31	1 1/4"	1 1/4"	54	104	MMS-HY-01853
SFS-6-1 1/2"-30-DN 31	1 1/4"	1 1/2"	63.5	107	MMS-HY-01854
SFS-6-1 1/2"-30-DN 38	1 1/2"	1 1/2"	63.5	118	MMS-HY-01855
SFS-6-2"-30-DN 38	1 1/2"	2"	79.4	119	MMS-HY-01856
SFS-6-2"-30-DN 51	2"	2"	79.4	153	MMS-HY-01857



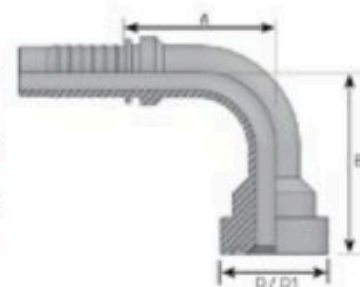
SAE FLANGE "CAT" 9000 PSI

Description	Hoses	D S.A.E	D1 mm	A mm	REF
SFS-CAT-9-3/4"-DN 19	3/4"	3/4"	41.3	58	MMS-HY-01858
SFS-CAT-9-1"-DN 19	3/4"	1"	47.6	70	MMS-HY-01859
SFS-CAT-9-1"-DN 25	1"	1"	47.6	72	MMS-HY-01860
SFS-CAT-9-1 1/4"-DN 25	1"	1 1/4"	54	75	MMS-HY-01861
SFS-CAT-9-1 1/4"-DN 31	1 1/4"	1 1/4"	54	71	MMS-HY-01862
SFS-CAT-9-1 1/2"-DN 31	1 1/4"	1 1/2"	63.5	80	MMS-HY-01863
SFS-CAT-9-1 1/2"-DN 38	1 1/2"	1 1/2"	63.5	80	MMS-HY-01864



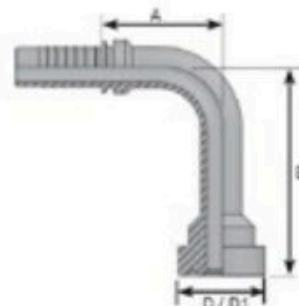
SAE FLANGE "CAT" 9000 PSI - 90°

Description	Hoses	D S.A.E	D1 mm	A mm	B mm	REF
SFS-CAT-9-3/4"-90°-DN 19	3/4"	3/4"	41.3	57	67	MMS-HY-01865
SFS-CAT-9-1"-90°-DN 19	3/4"	1"	47.6	57	73	MMS-HY-01866
SFS-CAT-9-1"-90°-DN 25	1"	1"	47.6	77	75	MMS-HY-01867
SFS-CAT-9-1 1/4"-90°-DN 25	1"	1 1/4"	54	77	80	MMS-HY-01868
SFS-CAT-9-1 1/4"-90°-DN 31	1 1/4"	1 1/4"	54	89	97	MMS-HY-01869
SFS-CAT-9-1 1/2"-90°-DN 31	1 1/4"	1 1/2"	63.5	89	99	MMS-HY-01870
SFS-CAT-9-1 1/2"-90°-DN 38	1 1/2"	1 1/2"	63.5	101	113	MMS-HY-01871

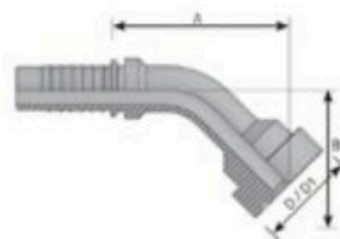


SAE FLANGE "CAT" 9000 PSI - 90° LONG DROP

Description	Hoses	D S.A.E	D1 mm	A mm	B mm	REF
SFS-CAT-9-3/4"-90°-DN 19L	3/4"	3/4"	41.3	57	105.4	MMS-HY-01872
SFS-CAT-9-1"-90°-DN 19L	3/4"	1"	47.6	57	142	MMS-HY-01873
SFS-CAT-9-1"-90°-DN 25L	1"	1"	47.6	77	124.8	MMS-HY-01874
SFS-CAT-9-1 1/4"-90°-DN 31L	1 1/4"	1 1/4"	54	89	123	MMS-HY-01875
SFS-CAT-9-1 1/2"-90°-DN 38L	1 1/2"	1 1/2"	63.5	101	139	MMS-HY-01876

**SAE FLANGE "CAT" 9000 PSI - 45°**

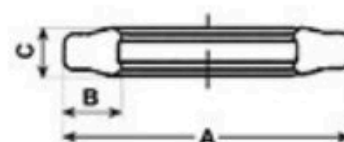
Description	Hoses	D S.A.E	D1 mm	A mm	B mm	REF
SFS-CAT-9-3/4"-45°-DN 19	3/4"	3/4"	41.3	74	39	MMS-HY-01877
SFS-CAT-9-1"-45°-DN 19	3/4"	1"	47.6	78	43	MMS-HY-01878
SFS-CAT-9-1"-45°-DN 25	1"	1"	47.6	94	40	MMS-HY-01879
SFS-CAT-9-1 1/4"-45°-DN 25	1"	1 1/4"	54	97	43	MMS-HY-01880
SFS-CAT-9-1 1/4"-45°-DN 31	1 1/4"	1 1/4"	54	107	50	MMS-HY-01881
SFS-CAT-9-1 1/2"-45°-DN 31	1 1/4"	1 1/2"	63.5	108	51	MMS-HY-01882
SFS-CAT-9-1 1/2"-45°-DN 38	1 1/2"	1 1/2"	63.5	120	49	MMS-HY-01883

**SEAL SAE 3000 - 6000 PSI FLANGE**

D S.A.E	REF
1/2"	MMS-HY-01884
3/4"	MMS-HY-01885
1"	MMS-HY-01886
1 1/4"	MMS-HY-01887
1 1/2"	MMS-HY-01888
2"	MMS-HY-01889

**WIPER SEAL 3000 - 6000 - 9000 PSI FLANGE**

D S.A.E	A mm	B mm	C mm	REF
1/2"	25.6	3.8	3.5	MMS-HY-01890
3/4"	31.8	3.8	3.5	MMS-HY-01891
1"	39.8	3.8	3.5	MMS-HY-01892
1 1/4"	44.8	3.8	3.5	MMS-HY-01893
1 1/2"	54.3	3.8	3.5	MMS-HY-01894
2"	63.8	3.8	3.5	MMS-HY-01895

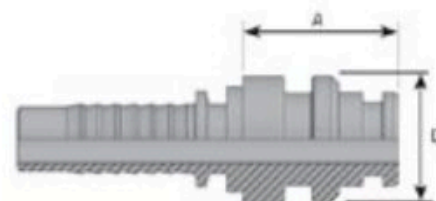


HYDRAULIC CRIMP FITTINGS

CLAMP COUPLING - MALE

Description	Hoses	A mm	D mm	REF
RS-STECK-O-DN 06	1/4"	28.7	15	MMS-HY-01896
RS-STECK-O-DN 10	3/8"	28.8	20	MMS-HY-01897
RS-STECK-O-DN 12	1/2"	28.7	24	MMS-HY-01898
RS-STECK-O-DN 19	3/4"	28.9	29	MMS-HY-01899
RS-STECK-O-DN 25	1"	35.1	39	MMS-HY-01900
RS-STECK-O-DN 31	1 1/4"	35	46	MMS-HY-01901
RS-STECK-O-DN 38	1 1/2"	40	55	MMS-HY-01902
RS-STECK-O-DN 51	2"	40	64	MMS-HY-01903

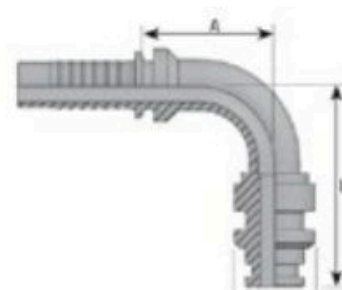
* seal included



CLAMP COUPLING MALE - 90°

Description	Hoses	A mm	B mm	REF
RS-STECK-O-90°-DN 10	3/8"	32.5	53.5	MMS-HY-01904
RS-STECK-O-90°-DN 12	1/2"	39	58	MMS-HY-01905

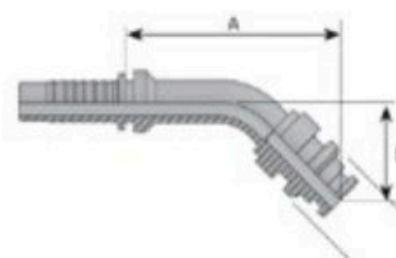
* seal included



CLAMP COUPLING - 45°

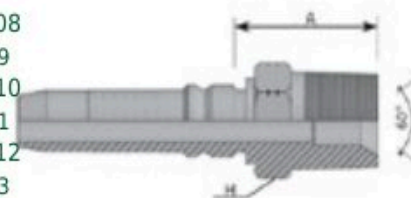
Description	Hoses	A mm	B mm	REF
RS-STECK-O-45°-DN 10	3/8"	65	34	MMS-HY-01906
RS-STECK-O-45°-DN 12	1/2"	73	35	MMS-HY-01907

* seal included

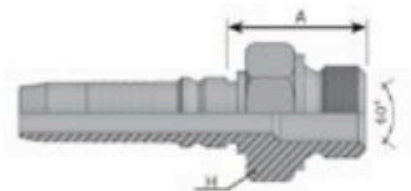


INTERLOCK COUPLING NPTF - MALE

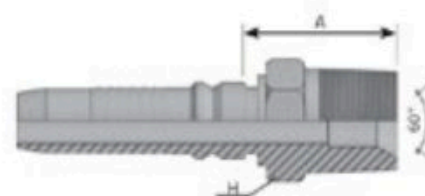
Description	Hoses	Thread	A mm	H mm	B mm	REF
I-AGN-3/4"-DN 19	3/4"	3/4"-14	96.5	27	34.5	MMS-HY-01908
I-AGN-1"-DN 19	3/4"	1"-11.5	104.5	36	42.5	MMS-HY-01909
I-AGN-1"-DN 25	1"	1"-11.5	115	36	43	MMS-HY-01910
I-AGN-1 1/4"-DN 25	1"	1 1/4"-11.5	115	46	43	MMS-HY-01911
I-AGN-1 1/4"-DN 31	1 1/4"	1 1/4"-11.5	137.5	46	44	MMS-HY-01912
I-AGN-1 1/2"-DN 31	1 1/4"	1 1/2"-11.5	137.5	50	44	MMS-HY-01913
I-AGN-1 1/2"-DN 38	1 1/2"	1 1/2"-11.5	139	50	44.5	MMS-HY-01914
I-AGN-2"-DN 51	2"	2"-11.5	155	65	57	MMS-HY-01915

**INTERLOCK COUPLING BSPP - MALE**

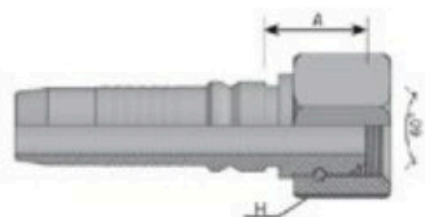
Description	Hoses	Thread	A mm	H mm	REF
I-AGR-3/4"-DN 19	3/4"	3/4"-14	34.7	32	MMS-HY-01916
I-AGR-1"-DN 25	1"	1"-11	37.4	38	MMS-HY-01917
I-AGR-1 1/4"-DN 25	1"	1 1/4"-11	42.6	50	MMS-HY-01918
I-AGR-1 1/4"-DN 31	1 1/4"	1 1/4"-11	44.2	50	MMS-HY-01919
I-AGR-1 1/2"-DN 38	1 1/2"	1 1/2"-11	44.5	55	MMS-HY-01920
I-AGR-2"-DN 51	2"	2"-11	54	70	MMS-HY-01921

**INTERLOCK COUPLING BSPT - MALE**

Description	Hoses	Thread	A mm	H mm	REF
I-AGR-K-3/4"-DN 19	3/4"	3/4"-14	34.7	27	MMS-HY-01922
I-AGR-K-1"-DN 25	1"	1"-11	43.5	36	MMS-HY-01923
I-AGR-K-1 1/4"-DN 31	1 1/4"	1 1/4"-11	42.0	46	MMS-HY-01924
I-AGR-K-1 1/2"-DN 38	1 1/2"	1 1/2"-11	46	50	MMS-HY-01925
I-AGR-K-2"-DN 51	2"	2"-11	57	65	MMS-HY-01926

**INTERLOCK COUPLING BSPP - FEMALE**

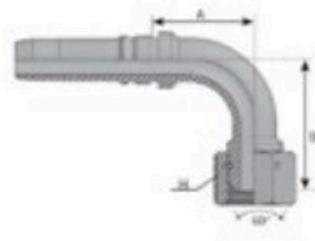
Description	Hoses	Thread	A mm	H mm	REF
I-DKR-3/4"-DN 19	3/4"	3/4"-14	22.7	32	MMS-HY-01927
I-DKR-1"-DN 25	1"	1"-11	24.7	38	MMS-HY-01928
I-DKR-1 1/4"-DN 25	1"	1 1/4"-11	27.5	50	MMS-HY-01929
I-DKR-1 1/4"-DN 31	1 1/4"	1 1/4"-11	28.2	50	MMS-HY-01930
I-DKR-1 1/2"-DN 38	1 1/2"	1 1/2"-11	30.5	55	MMS-HY-01931
I-DKR-2"-DN 51	2"	2"-11	34	70	MMS-HY-01932



HYDRAULIC CRIMP FITTINGS

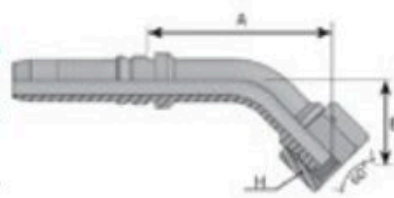
INTERLOCK COUPLING BSPP - FEMALE - 90°

Description	Hoses	Thread	A mm	H mm	B mm	REF
I-DKR-3/4"-90°-DN 19	3/4"	3/4"-14	54	32	59	MMS-HY-01933
I-DKR-1"-90°-DN 25	1"	1"-11	70.5	38	72	MMS-HY-01934
I-DKR-1 1/4"-90°-DN 25	1"	1 1/4"-11	70.5	50	80	MMS-HY-01935
I-DKR-1 1/4"-90°-DN 31	1 1/4"	1 1/4"-11	87.7	50	93	MMS-HY-01936
I-DKR-1 1/2"-90°-DN 38	1 1/2"	1 1/2"-11	99.5	55	114	MMS-HY-01937
I-DKR-2"-90°-DN 51	2"	2"-11	70	135	136	MMS-HY-01938



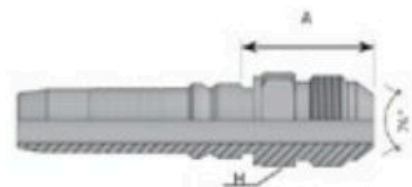
INTERLOCK COUPLING BSPP - FEMALE - 45°

Description	Hoses	Thread	A mm	H mm	B mm	REF
I-DKR-3/4"-45°-DN 19	3/4"	3/4"-14	60.7	32	29	MMS-HY-01939
I-DKR-1"-45°-DN 25	1"	1"-11	87.5	38	41	MMS-HY-01940
I-DKR-1 1/4"-45°-DN 25	1"	1 1/4"-11	90.5	50	44	MMS-HY-01941
I-DKR-1 1/4"-45°-DN 31	1 1/4"	1 1/4"-11	100.5	50	44	MMS-HY-01942
I-DKR-1 1/2"-45°-DN 38	1 1/2"	1 1/2"-11	116.5	55	45	MMS-HY-01943
I-DKR-2"-45°-DN 51	2"	2"-11	156	70	68	MMS-HY-01944

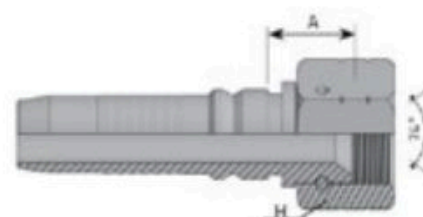


INTERLOCK COUPLING JIC 37° - MALE

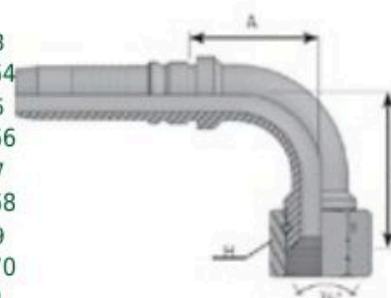
Description	Hoses	Thread	A mm	H mm	REF
I-AGJ-1 1/16"-DN 19	3/4"	1 1/16"-12	38	27	MMS-HY-01945
I-AGJ-1 3/16"-DN 19	3/4"	1 3/16"-12	39	32	MMS-HY-01946
I-AGJ-1 5/16"-DN 19	3/4"	1 5/16"-12	39	34	MMS-HY-01947
I-AGJ-1 5/16"-DN 25	1"	1 5/16"-12	40	34	MMS-HY-01948
I-AGJ-1 5/8"-DN 25	1"	1 5/8"-12	42.5	42	MMS-HY-01949
I-AGJ-1 5/8"-DN 31	1 1/4"	1 5/8"-12	44	42	MMS-HY-01950
I-AGJ-1 7/8"-DN 31	1 1/4"	1 7/8"-12	51	50	MMS-HY-01951
I-AGJ-1 7/8"-DN 38	1 1/2"	1 7/8"-12	51	50	MMS-HY-01952
I-AGJ-2 1/2"-DN 51	2"	2 1/2"-12	61.5	65	MMS-HY-01953

**INTERLOCK COUPLING JIC 37° - FEMALE**

Description	Hoses	Thread	A mm	H mm	REF
I-DKJ-1 1/16"-DN 19	3/4"	1 1/16"-12	20.5	32	MMS-HY-01954
I-DKJ-1 3/16"-DN 19	3/4"	1 3/16"-12	20.5	36	MMS-HY-01955
I-DKJ-1 5/16"-DN 19	3/4"	1 5/16"-12	20.5	41	MMS-HY-01956
I-DKJ-1 5/16"-DN 25	1"	1 5/16"-12	22	41	MMS-HY-01957
I-DKJ-1 5/8"-DN 25	1"	1 5/8"-12	26	50	MMS-HY-01958
I-DKJ-1 5/8"-DN 31	1 1/4"	1 5/8"-12	27.5	50	MMS-HY-01959
I-DKJ-1 7/8"-DN 31	1 1/4"	1 7/8"-12	29.5	55	MMS-HY-01960
I-DKJ-1 7/8"-DN 38	1 1/2"	1 7/8"-12	29.5	55	MMS-HY-01961
I-DKJ-2 1/2"-DN 51	2"	2 1/2"-12	33	70	MMS-HY-01962

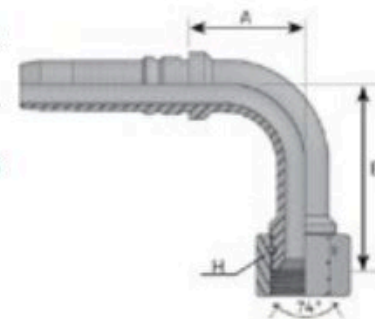
**INTERLOCK COUPLING JIC 37° - FEMALE - 90°**

Description	Hoses	Thread	A mm	H mm	B mm	REF
I-DKJ-1 1/16"-90°-DN 19	3/4"	1 1/16"-12	58	32	51	MMS-HY-01963
I-DKJ-1 3/16"-90°-DN 19	3/4"	1 3/16"-12	61	36	51	MMS-HY-01964
I-DKJ-1 5/16"-90°-DN 19	3/4"	1 5/16"-12	62.5	41	51	MMS-HY-01965
I-DKJ-1 5/16"-90°-DN 25	1"	1 5/16"-12	69.5	41	70.5	MMS-HY-01966
I-DKJ-1 5/8"-90°-DN 25	1"	1 5/8"-12	78.5	50	70.5	MMS-HY-01967
I-DKJ-1 5/8"-90°-DN 31	1 1/4"	1 5/8"-12	91.5	50	87.5	MMS-HY-01968
I-DKJ-1 7/8"-90°-DN 31	1 1/4"	1 7/8"-12	99	55	97.5	MMS-HY-01969
I-DKJ-1 7/8"-90°-DN 38	1 1/2"	1 7/8"-12	112.5	55	99.5	MMS-HY-01970
I-DKJ-2 1/2"-90°-DN 51	2"	2 1/2"-12	101	70	110	MMS-HY-01971



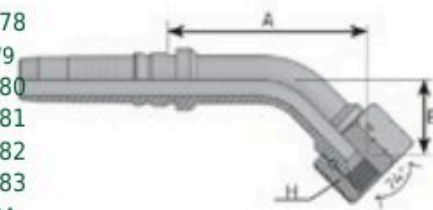
INTERLOCK COUPLING JIC 37° - FEMALE - 90° LONG DROP

Description	Hoses	Thread	A mm	H mm	B mm	REF
I-DKJ-1 1/16"-90°-DN 19L	3/4"	1 1/16"-12	62	32	94.5	MMS-HY-01972
I-DKJ-1 5/16"-90°-DN 25L	1"	1 5/16"-12	77	41	110	MMS-HY-01973
I-DKJ-1 5/8"-90°-DN 25L	1"	1 5/8"-12	77	50	116	MMS-HY-01974
I-DKJ-1 5/8"-90°-DN 31L	1 1/4"	1 5/8"-12	89	50	136	MMS-HY-01975
I-DKJ-1 7/8"-90°-DN 38L	1 1/2"	1 7/8"-12	101	55	162	MMS-HY-01976
I-DKJ-2 1/2"-90°-DN 51L	2"	2 1/2"-12	135	70	220	MMS-HY-01977



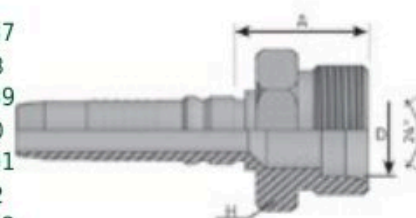
INTERLOCK COUPLING JIC 37° - FEMALE - 45°

Description	Hoses	Thread	A mm	H mm	B mm	REF
I-DKJ-1 1/16"-45°-DN 19	3/4"	1 1/16"-12	59.5	32	29	MMS-HY-01978
I-DKJ-1 3/16"-45°-DN 19	3/4"	1 3/16"-12	60.5	36	29	MMS-HY-01979
I-DKJ-1 5/16"-45°-DN 19	3/4"	1 5/16"-12	60.5	41	29	MMS-HY-01980
I-DKJ-1 5/16"-45°-DN 25	1"	1 5/16"-12	86	41	39.5	MMS-HY-01981
I-DKJ-1 5/8"-45°-DN 25	1"	1 5/8"-12	87	50	38.5	MMS-HY-01982
I-DKJ-1 5/8"-45°-DN 31	1 1/4"	1 5/8"-12	99.5	55	44	MMS-HY-01983
I-DKJ-1 7/8"-45°-DN 31	1 1/4"	1 7/8"-12	101.5	55	45	MMS-HY-01984
I-DKJ-1 7/8"-45°-DN 38	1 1/2"	1 7/8"-12	116.5	55	45	MMS-HY-01985
I-DKJ-2 1/2"-45°-DN 51	2"	2 1/2"-12	156	70	65.8	MMS-HY-01986

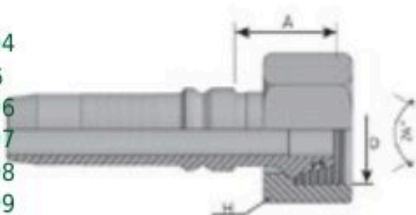


INTERLOCK COUPLING 24° S - MALE

Description	Hoses	Thread	A mm	H mm	D mm	REF
I-CES-M30X2-DN 19	3/4"	M30 x 2	31.5	32	20	MMS-HY-01987
I-CES-M36X2-DN 19	3/4"	M36 x 2	33.5	38	25	MMS-HY-01988
I-CES-M36X2-DN 25	1"	M36 x 2	36	38	25	MMS-HY-01989
I-CES-M42X2-DN 25	1"	M42 x 2	39.5	46	30	MMS-HY-01990
I-CES-M42X2-DN 31	1 1/4"	M42 x 2	40.5	46	30	MMS-HY-01991
I-CES-M52X2-DN 31	1 1/4"	M52 x 2	44.5	55	38	MMS-HY-01992
I-CES-M52X2-DN 38	1 1/2"	M52 x 2	44.5	55	38	MMS-HY-01993

**INTERLOCK COUPLING 24° S - FEMALE**

Description	Hoses	Thread	A mm	H mm	D mm	REF
I-DKOS-M30X2-DN 16	5/8"	M30 x 2	-	-	20	MMS-HY-01994
I-DKOS-M30X2-DN 19	3/4"	M30 x 2	35	36	20	MMS-HY-01995
I-DKOS-M36X2-DN 19	3/4"	M36 x 2	37	46	25	MMS-HY-01996
I-DKOS-M36X2-DN 25	1"	M36 x 2	37	46	25	MMS-HY-01997
I-DKOS-M42X2-DN 25	1"	M42 x 2	38	50	30	MMS-HY-01998
I-DKOS-M42X2-DN 31	1 1/4"	M42 x 2	40	50	30	MMS-HY-01999
I-DLOS-M52X2-DN 31	1 1/4"	M52 x 2	45.5	60	38	MMS-HY-02000
I-DKOS-M52X2-DN 38	1 1/2"	M52 x 2	45.5	60	38	MMS-HY-02001



HYDRAULIC CRIMP FITTINGS

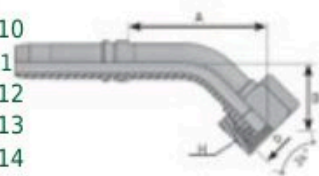
INTERLOCK COUPLING 24° S - FEMALE - 90°

Description	Hoses	Thread	A mm	B mm	Hexagon	D mm	REF
I-DKOS-M30X2-90°-DN 16	5/8"	M30 x 2	-	-	-	20	MMS-HY-02002
I-DKOS-M30X2-90°-DN 19	3/4"	M30 x 2	54	59	36	20	MMS-HY-02003
I-DKOS-M36X2-90°-DN 19	3/4"	M36 x 2	54	59	46	25	MMS-HY-02004
I-DKOS-M36X2-90°-DN 25	1"	M36 x 2	70.5	75	46	25	MMS-HY-02005
I-DKOS-M42X2-90°-DN 25	1"	M42 x 2	70.5	75	50	30	MMS-HY-02006
I-DKOS-M42X2-90°-DN 31	1 1/4"	M42 x 2	90.5	86	60	38	MMS-HY-02007
I-DLOS-M52X2-90°-DN 31	1 1/4"	M52 x 2	90.5	86	60	38	MMS-HY-02008
I-DKOS-M52X2-90°-DN 38	1 1/2"	M52 x 2	97.5	94	60	38	MMS-HY-02009



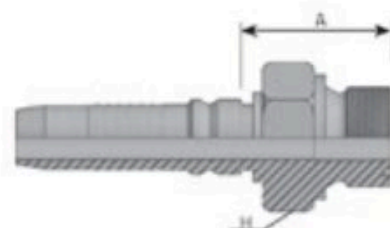
INTERLOCK COUPLING 24° S - FEMALE - 45°

Description	Hoses	Thread	A mm	B mm	Hexagon	D mm	REF
I-DKOS-M30X2-45°-DN 16	5/8"	M30 x 2	-	-	-	20	MMS-HY-02010
I-DKOS-M30X2-45°-DN 19	3/4"	M30 x 2	61.5	27	36	20	MMS-HY-02011
I-DKOS-M36X2-45°-DN 19	3/4"	M36 x 2	67.5	28	46	25	MMS-HY-02012
I-DKOS-M36X2-45°-DN 25	1"	M36 x 2	86	38	50	30	MMS-HY-02013
I-DKOS-M42X2-45°-DN 25	1"	M42 x 2	86.5	38	50	30	MMS-HY-02014
I-DKOS-M42X2-45°-DN 31	1 1/4"	M42 x 2	103	35	50	30	MMS-HY-02015
I-DLOS-M52X2-45°-DN 31	1 1/4"	M52 x 2	103	35	60	38	MMS-HY-02016
I-DKOS-M52X2-45°-DN 38	1 1/2"	M52 x 2	117.5	45	60	38	MMS-HY-02017

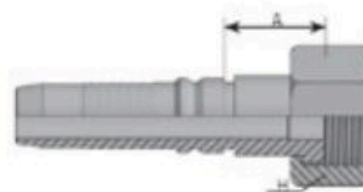


INTERLOCK COUPLING ORFS - MALE

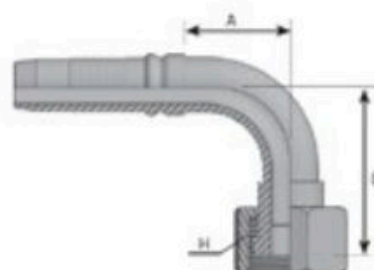
Description	Hoses	Thread	A mm	H mm	REF
I-ORFS-AG-1 7/16"-DN 19	3/4"	1 7/16"-12	35.7	41	MMS-HY-02018
I-ORFS-AG-1 7/16"-DN 25	1"	1 7/16"-12	36.6	41	MMS-HY-02019
I-ORFS-AG-1 1 1/16"-DN 25	1"	1 11/16"-12	36.6	46	MMS-HY-02020
I-ORFS-AG-1 1 1/16"-DN 31	1 1/4"	1 11/16"-12	37.7	46	MMS-HY-02021

**INTERLOCK COUPLING ORFS - FEMALE**

Description	Hoses	Thread	A mm	H mm	REF
I-ORFS-1 3/16"-DN 16	5/8"	1 3/16"-12	-	-	MMS-HY-02022
I-ORFS-1 3/16"-DN 19	3/4"	1 3/16"-12	30.5	36	MMS-HY-02023
I-ORFS-1 7/16"-DN 19	3/4"	1 7/16"-12	31.5	41	MMS-HY-02024
I-ORFS-1 7/16"-DN 25	1"	1 7/16"-12	32.5	41	MMS-HY-02025
I-ORFS-1 1 1/16"-DN 25	1"	1 11/16"-12	-	-	MMS-HY-02026
I-ORFS-1 1 1/16"-DN 31	1 1/4"	1 11/16"-12	34	50	MMS-HY-02027

**INTERLOCK COUPLING ORFS - FEMALE - 90°**

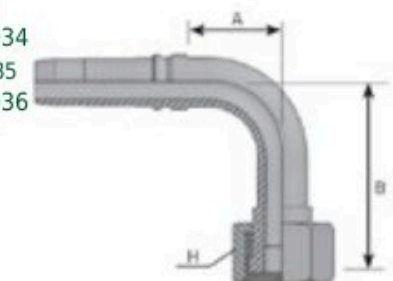
Description	Hoses	Thread	A mm	H mm	Hexagon	REF
I-ORFS-1 3/16"-90°-DN 16	5/8"	1 3/16"-12	-	-	-	MMS-HY-02028
I-ORFS-1 3/16"-90°-DN 19	3/4"	1 3/16"-12	53.5	36	49	MMS-HY-02029
I-ORFS-1 7/16"-90°-DN 19	3/4"	1 7/16"-12	54	41	54	MMS-HY-02030
I-ORFS-1 7/16"-90°-DN 25	1"	1 7/16"-12	71.5	41	59.5	MMS-HY-02031
I-ORFS-1 1 1/16"-90°-DN 25	1"	1 11/16"-12	-	-	-	MMS-HY-02032
I-ORFS-1 1 1/16"-90°-DN 31	1 1/4"	1 11/16"-12	88.5	50	75.5	MMS-HY-02033



HYDRAULIC CRIMP FITTINGS

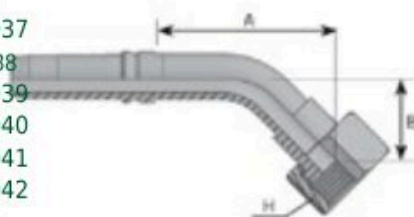
INTERLOCK COUPLING ORFS - FEMALE - 90° LONG DROP

Description	Hoses	Thread	A mm	H mm	B mm	REF
I-ORFS-1 3/16"-90°-DN 19L	3/4"	1 3/16"-12	50	36	96	MMS-HY-02034
I-ORFS-1 7/16"-90°-DN 25L	1"	1 7/16"-12	62	41	113	MMS-HY-02035
I-ORFS-1 1 1/16"-90°-DN 31L	1 1/4"	1 11/16"-12	87	50	130	MMS-HY-02036



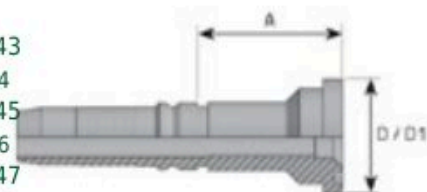
INTERLOCK COUPLING ORFS - FEMALE - 45°

Description	Hoses	Thread	A mm	H mm	B mm	REF
I-ORFS-1 3/16"-45°-DN 16	5/8"	1 3/16"-12	-	-	-	MMS-HY-02037
I-ORFS-1 3/16"-45°-DN 19	3/4"	1 3/16"-12	55.5	36	23	MMS-HY-02038
I-ORFS-1 7/16"-45°-DN 19	3/4"	1 7/16"-12	60	41	27	MMS-HY-02039
I-ORFS-1 7/16"-45°-DN 25	1"	1 7/16"-12	78.5	41	26	MMS-HY-02040
I-ORFS-1 1 1/16"-45°-DN 25	1"	1 11/16"-12	-	-	-	MMS-HY-02041
I-ORFS-1 1 1/16"-45°-DN 31	1 1/4"	1 11/16"-12	91.5	34	50	MMS-HY-02042

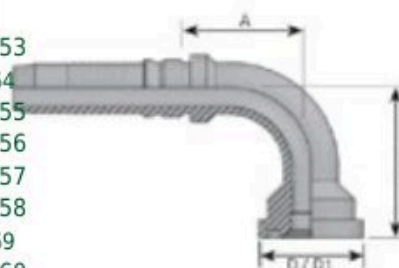


INTERLOCK COUPLING SAE 3000 PSI

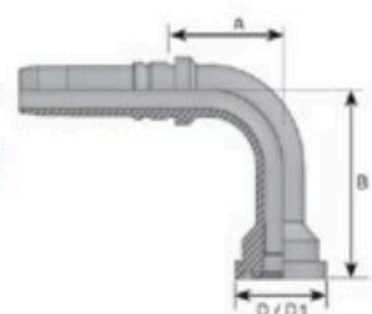
Description	Hoses	Hoses mm	D	D1 mm	A mm	REF
I-SFL-3-3/4"-DN 19	3/4"	19	3/4"	38.1	56.7	MMS-HY-02043
I-SFL-3-1"-DN 19	3/4"	19	1"	44.5	48.7	MMS-HY-02044
I-SFL-3-3/4"-DN 25	1"	25.4	3/4"	38.1	47.6	MMS-HY-02045
I-SFL-3-1"-DN 25	1"	25.4	1"	44.5	47.6	MMS-HY-02046
I-SFL-3-1 1/4"-DN 25	1"	25.4	1 1/4"	50.8	64.6	MMS-HY-02047
I-SFL-3-1 1/4"-DN 31	1 1/4"	31.8	1 1/4"	50.8	68.7	MMS-HY-02048
I-SFL-3-1 1/2"-DN 31	1 1/4"	31.8	1 1/2"	60.3	78.7	MMS-HY-02049
I-SFL-3-1 1/2"-DN 38	1 1/2"	38.1	1 1/2"	60.3	68.5	MMS-HY-02050
I-SFL-3-2"-DN 38	1 1/2"	38.1	2"	71.4	70.5	MMS-HY-02051
I-SFL-3-2"-DN 51	2"	50.8	2"	71.4	70.5	MMS-HY-02052

**INTERLOCK COUPLING SAE 3000 PSI - 90°**

Description	Hoses	Hoses mm	D	D1 mm	A mm	B mm	REF
I-SFL-3-3/4"-90°-DN 19	3/4"	19	3/4"	38.1	54.7	58	MMS-HY-02053
I-SFL-3-1"-90°-DN 19	3/4"	19	1"	44.5	54.7	62	MMS-HY-02054
I-SFL-3-3/4"-90°-DN 25	1"	25.4	3/4"	38.1	74.6	60	MMS-HY-02055
I-SFL-3-1"-90°-DN 25	1"	25.4	1"	44.5	70.6	64	MMS-HY-02056
I-SFL-3-1 1/4"-90°-DN 25	1"	25.4	1 1/4"	50.8	74.6	70	MMS-HY-02057
I-SFL-3-1 1/4"-90°-DN 31	1 1/4"	31.8	1 1/4"	50.8	87.7	87	MMS-HY-02058
I-SFL-3-1 1/2"-90°-DN 31	1 1/4"	31.8	1 1/2"	60.3	87.7	88	MMS-HY-02059
I-SFL-3-1 1/2"-90°-DN 38	1 1/2"	38.1	1 1/2"	60.3	99.5	102	MMS-HY-02060
I-SFL-3-2"-90°-DN 38	1 1/2"	38.1	2"	71.4	99.5	118	MMS-HY-02061
I-SFL-3-2"-90°-DN 51	2"	50.8	2"	71.4	144	120	MMS-HY-02062

**INTERLOCK COUPLING SAE 3000 PSI - 90° LONG DROP**

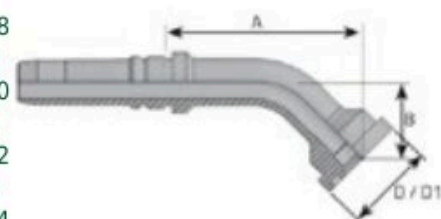
Description	Hoses	Hoses mm	D	D1 mm	A mm	B mm	REF
I-SFL-3-3/4"-90°-DN 19L	3/4"	19	3/4"	38.1	54.7	97	MMS-HY-02063
I-SFL-3-1"-90°-DN 19L	3/4"	19	1"	44.5	54.7	135	MMS-HY-02064
I-SFL-3-1"-90°-DN 25L	1"	25.4	1"	44.5	70.6	115	MMS-HY-02065
I-SFL-3-1 1/4"-90°-DN 31L	1 1/4"	31.8	1 1/4"	50.8	87.7	114	MMS-HY-02066
I-SFL-3-1 1/2"-90°-DN 38L	1 1/2"	38.1	1 1/2"	60.3	99.5	131	MMS-HY-02067



HYDRAULIC CRIMP FITTINGS

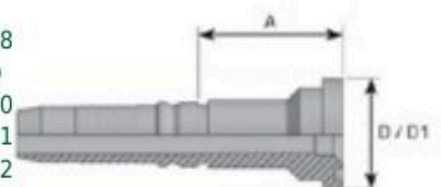
INTERLOCK COUPLING SAE 3000 PSI - 45°

Description	Hoses	Hoses mm	D	D1 mm	A mm	B mm	REF
I-SFL-3-3/4"-45°-DN 19	3/4"	19	3/4"	38.1	64.7	32	MMS-HY-02068
I-SFL-3-1"-45°-DN 19	3/4"	19	1"	44.5	67.7	35	MMS-HY-02069
I-SFL-3-3/4"-45°-DN 25	1"	25.4	3/4"	38.1	80.6	35	MMS-HY-02070
I-SFL-3-1"-45°-DN 25	1"	25.4	1"	44.5	83.6	32	MMS-HY-02071
I-SFL-3-1 1/4"-45°-DN 25	1"	25.4	1 1/4"	50.8	87.6	36	MMS-HY-02072
I-SFL-3-1 1/4"-45°-DN 31	1 1/4"	31.8	1 1/4"	50.8	98.7	43	MMS-HY-02073
I-SFL-3-1 1/2"-45°-DN 31	1 1/4"	31.8	1 1/2"	60.3	99.7	44	MMS-HY-02074
I-SFL-3-1 1/2"-45°-DN 38	1 1/2"	38.1	1 1/2"	60.3	110.5	41	MMS-HY-02075
I-SFL-3-2"-45°-DN 38	1 1/2"	38.1	2"	71.4	121.5	52	MMS-HY-02076
I-SFL-3-2"-45°-DN 51	2"	50.8	2"	71.4	148	59	MMS-HY-02077



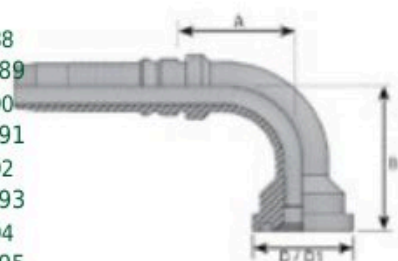
INTERLOCK COUPLING SAE 6000 PSI

Description	Hoses	Hoses mm	D	D1 mm	A mm	REF
I-SFS-6-3/4"-DN 19	3/4"	19	3/4"	41.3	50	MMS-HY-02078
I-SFS-6-1"-DN 19	3/4"	19	1"	47.6	61.7	MMS-HY-02079
I-SFS-6-3/4"-DN 25	1"	25.4	3/4"	41.3	61.6	MMS-HY-02080
I-SFS-6-1"-DN 25	1"	25.4	1"	47.6	63.6	MMS-HY-02081
I-SFS-6-1 1/4"-DN 25	1"	25.4	1 1/4"	54	68.6	MMS-HY-02082
I-SFS-6-1 1/4"-DN 31	1 1/4"	31.8	1 1/4"	54	68.7	MMS-HY-02083
I-SFS-6-1 1/2"-DN 31	1 1/4"	31.8	1 1/2"	63.5	76.7	MMS-HY-02084
I-SFS-6-1 1/2"-DN 38	1 1/2"	38.1	1 1/2"	63.5	76.5	MMS-HY-02085
I-SFS-6-2"-DN 38	1 1/2"	38.1	2"	79.4	70.5	MMS-HY-02086
I-SFS-6-2"-DN 51	2"	50.8	2"	79.4	73	MMS-HY-02087



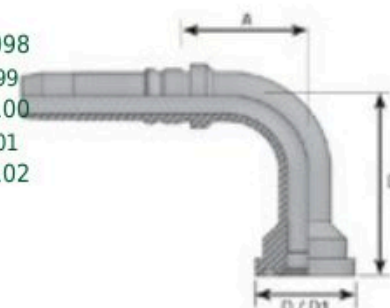
INTERLOCK COUPLING 6000 PSI - 90°

Description	Hoses	Hoses mm	D	D1 mm	A mm	B mm	REF
I-SFS-6-3/4"-90°-DN 19	3/4"	19	3/4"	41.3	54.7	62	MMS-HY-02088
I-SFS-6-1"-90°-DN 19	3/4"	19	1"	47.6	54.7	67	MMS-HY-02089
I-SFS-6-3/4"-90°-DN 25	1"	25.4	3/4"	41.3	74.6	64	MMS-HY-02090
I-SFS-6-1"-90°-DN 25	1"	25.4	1"	47.6	70.6	69	MMS-HY-02091
I-SFS-6-1 1/4"-90°-DN 25	1"	25.4	1 1/4"	54	74.6	76	MMS-HY-02092
I-SFS-6-1 1/4"-90°-DN 31	1 1/4"	31.8	1 1/4"	54	87.7	93	MMS-HY-02093
I-SFS-6-1 1/2"-90°-DN 31	1 1/4"	31.8	1 1/2"	63.5	87.7	97	MMS-HY-02094
I-SFS-6-1 1/2"-90°-DN 38	1 1/2"	38.1	1 1/2"	63.5	99.5	111	MMS-HY-02095
I-SFS-6-2"-90°-DN 38	1 1/2"	38.1	2"	79.4	110	128	MMS-HY-02096
I-SFS-6-2"-90°-DN 51	2"	50.8	2"	79.4	144	128	MMS-HY-02097

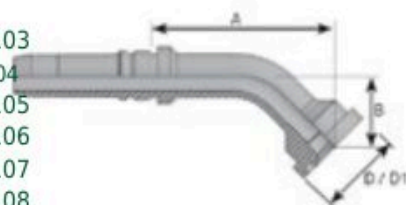


INTERLOCK COUPLING 6000 PSI - 90° LONG DROP

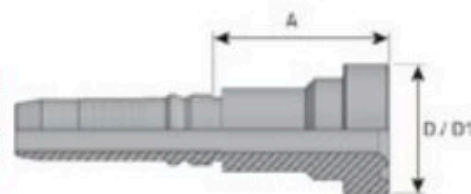
Description	Hoses	Hoses mm	D	D1 mm	A mm	B mm	REF
I-SFS-6-3/4"-90°-DN 19L	3/4"	19	3/4"	41.3	54.7	100	MMS-HY-02098
I-SFS-6-1"-90°-DN 19L	3/4"	19	1"	47.6	54.7	137	MMS-HY-02099
I-SFS-6-1"-90°-DN 25L	1"	25.4	1"	47.6	70.6	120	MMS-HY-02100
I-SFS-6-1 1/4"-90°-DN 31L	1 1/4"	31.8	1 1/4"	54	87.7	115	MMS-HY-02101
I-SFS-6-1 1/2"-90°-DN 38L	1 1/2"	38.1	1 1/2"	63.5	95	135	MMS-HY-02102

**INTERLOCK COUPLING 6000 PSI - 45°**

Description	Hoses	Hoses mm	D	D1 mm	A mm	B mm	REF
I-SFS-6-3/4"-45°-DN 19	3/4"	19	3/4"	41.3	67.7	32	MMS-HY-02103
I-SFS-6-1"-45°-DN 19	3/4"	19	1"	47.6	71.7	35	MMS-HY-02104
I-SFS-6-3/4"-45°-DN 25	1"	25.4	3/4"	41.3	83.6	35	MMS-HY-02105
I-SFS-6-1"-45°-DN 25	1"	25.4	1"	47.6	86.6	32	MMS-HY-02106
I-SFS-6-1 1/4"-45°-DN 25	1"	25.4	1 1/4"	54	91.6	36	MMS-HY-02107
I-SFS-6-1 1/4"-45°-DN 31	1 1/4"	31.8	1 1/4"	54	102.7	44	MMS-HY-02108
I-SFS-6-1 1/2"-45°-DN 31	1 1/4"	31.8	1 1/2"	63.5	105.7	41	MMS-HY-02109
I-SFS-6-1 1/2"-45°-DN 38	1 1/2"	38.1	1 1/2"	63.5	116.5	41	MMS-HY-02110
I-SFS-6-2"-45°-DN 38	1 1/2"	38.1	2"	79.4	145	52	MMS-HY-02111
I-SFS-6-2"-45°-DN 51	2"	50.8	2"	79.4	153	59	MMS-HY-02112

**INTERLOCK COUPLING 9000 PSI <<CAT>>**

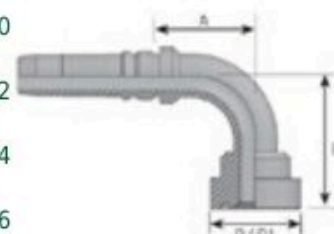
Description	Hoses	Hoses mm	D	D1 mm	A mm	REF
I-SFS-CAT-9-3/4"-DN 19	3/4"	19	3/4"	41.3	55.7	MMS-HY-02113
I-SFS-CAT-9-1"-DN 19	3/4"	19	1"	47.6	67.7	MMS-HY-02114
I-SFS-CAT-9-1"-DN 25	1"	25.4	1"	47.6	69.6	MMS-HY-02115
I-SFS-CAT-9-1 1/4"-DN 25	1"	25.4	1 1/4"	54	72.6	MMS-HY-02116
I-SFS-CAT-9-1 1/4"-DN 31	1 1/4"	31.8	1 1/4"	54	69.7	MMS-HY-02117
I-SFS-CAT-9-1 1/2"-DN 31	1 1/4"	31.8	1 1/2"	63.5	78.7	MMS-HY-02118
I-SFS-CAT-9-1 1/2"-DN 38	1 1/2"	38.1	1 1/2"	63.5	78.5	MMS-HY-02119



HYDRAULIC CRIMP FITTINGS

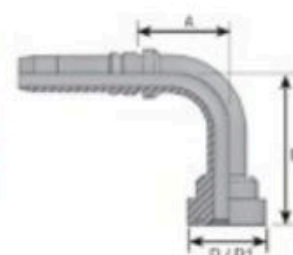
INTERLOCK COUPLING 9000 PSI <<CAT>> - 90°

Description	Hoses	Hoses mm	D	D1 mm	A mm	B mm	REF
I-SFS-CAT-9-3/4"-90°-DN 19	3/4"	19	3/4"	41.3	54.7	67	MMS-HY-02120
I-SFS-CAT-9-1"-90°-DN 19	3/4"	19	1"	47.6	54.7	73	MMS-HY-02121
I-SFS-CAT-9-1"-90°-DN 25	1"	25.4	1"	47.6	70.6	75	MMS-HY-02122
I-SFS-CAT-9-1 1/4"-90°-DN 25	1"	25.4	1 1/4"	54	74.6	80	MMS-HY-02123
I-SFS-CAT-9-1 1/4"-90°-DN 31	1 1/4"	31.8	1 1/4"	54	87.7	97	MMS-HY-02124
I-SFS-CAT-9-1 1/2"-90°-DN 31	1 1/4"	31.8	1 1/2"	63.5	87.7	99	MMS-HY-02125
I-SFS-CAT-9-1 1/2"-90°-DN 38	1 1/2"	38.1	1 1/2"	63.5	99.5	113	MMS-HY-02126



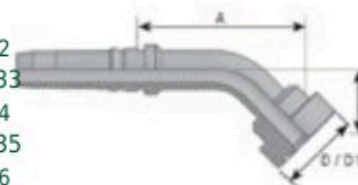
INTERLOCK COUPLING 9000 PSI <<CAT>> - 90° LONG DROP

Description	Hoses	Hoses mm	D	D1 mm	A mm	B mm	REF
I-SFS-CAT-9-3/4"-90°-DN 19L	3/4"	19	3/4"	41.3	54.7	105.4	MMS-HY-02127
I-SFS-CAT-9-1"-90°-DN 19L	3/4"	19	1"	47.6	54.7	144.8	MMS-HY-02128
I-SFS-CAT-9-1"-90°-DN 25L	1"	25.4	1"	47.6	70.6	124.8	MMS-HY-02129
I-SFS-CAT-9-1 1/4"-90°-DN 31L	1 1/4"	31.8	1 1/4"	54	87.7	124	MMS-HY-02130
I-SFS-CAT-9-1 1/2"-90°-DN 38L	1 1/2"	38.1	1 1/2"	63.5	99.5	141.7	MMS-HY-02131



INTERLOCK COUPLING 9000 PSI <<CAT>> - 45°

Description	Hoses	Hoses mm	D	D1 mm	A mm	B mm	REF
I-SFS-CAT-9-3/4"-45°-DN 19	3/4"	19	3/4"	41.3	71.7	39	MMS-HY-02132
I-SFS-CAT-9-1"-45°-DN 19	3/4"	19	1"	47.6	75.7	43	MMS-HY-02133
I-SFS-CAT-9-1"-45°-DN 25	1"	25.4	1"	47.6	91.6	40	MMS-HY-02134
I-SFS-CAT-9-1 1/4"-45°-DN 25	1"	25.4	1 1/4"	54	94.6	43	MMS-HY-02135
I-SFS-CAT-9-1 1/4"-45°-DN 31	1 1/4"	31.8	1 1/4"	54	105.7	50	MMS-HY-02136
I-SFS-CAT-9-1 1/2"-45°-DN 31	1 1/4"	31.8	1 1/2"	63.5	106.7	51	MMS-HY-02137
I-SFS-CAT-9-1 1/2"-45°-DN 38	1 1/2"	38.1	1 1/2"	63.5	118.5	49	MMS-HY-02138



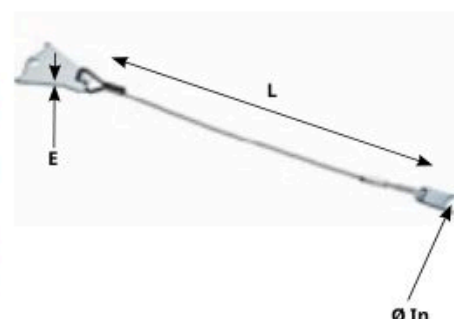
FIXATION CLAMPS

Ø Min mm	Ø Max mm	REF	Ø Min mm	Ø Max mm	REF
11.0	11.5	MMS-HY-02139	36.0	37.0	MMS-HY-02157
12.0	12.5	MMS-HY-02140	38.0	39.0	MMS-HY-02158
13.0	13.5	MMS-HY-02141	39.0	40.0	MMS-HY-02159
14.0	15.0	MMS-HY-02142	40.0	41.0	MMS-HY-02160
16.0	17.0	MMS-HY-02143	42.0	43.0	MMS-HY-02161
17.0	18.0	MMS-HY-02144	43.0	44.0	MMS-HY-02162
18.0	19.0	MMS-HY-02145	44.0	45.0	MMS-HY-02163
20.0	21.0	MMS-HY-02146	45.0	47.0	MMS-HY-02164
21.0	22.0	MMS-HY-02147	48.0	50.0	MMS-HY-02165
22.0	23.0	MMS-HY-02148	51.0	53.0	MMS-HY-02166
24.0	25.0	MMS-HY-02149	53.0	54.0	MMS-HY-02167
25.0	26.0	MMS-HY-02150	54.0	56.0	MMS-HY-02168
26.0	27.0	MMS-HY-02151	57.0	59.0	MMS-HY-02169
27.0	28.0	MMS-HY-02152	60.0	62.0	MMS-HY-02170
28.0	29.0	MMS-HY-02153	63.0	65.0	MMS-HY-02171
30.0	31.0	MMS-HY-02154	66.0	68.0	MMS-HY-02172
32.0	33.0	MMS-HY-02155	69.0	71.0	MMS-HY-02173
34.0	35.0	MMS-HY-02156	72.0	74.0	MMS-HY-02174



RETAINING SYSTEM TO DIN 2353

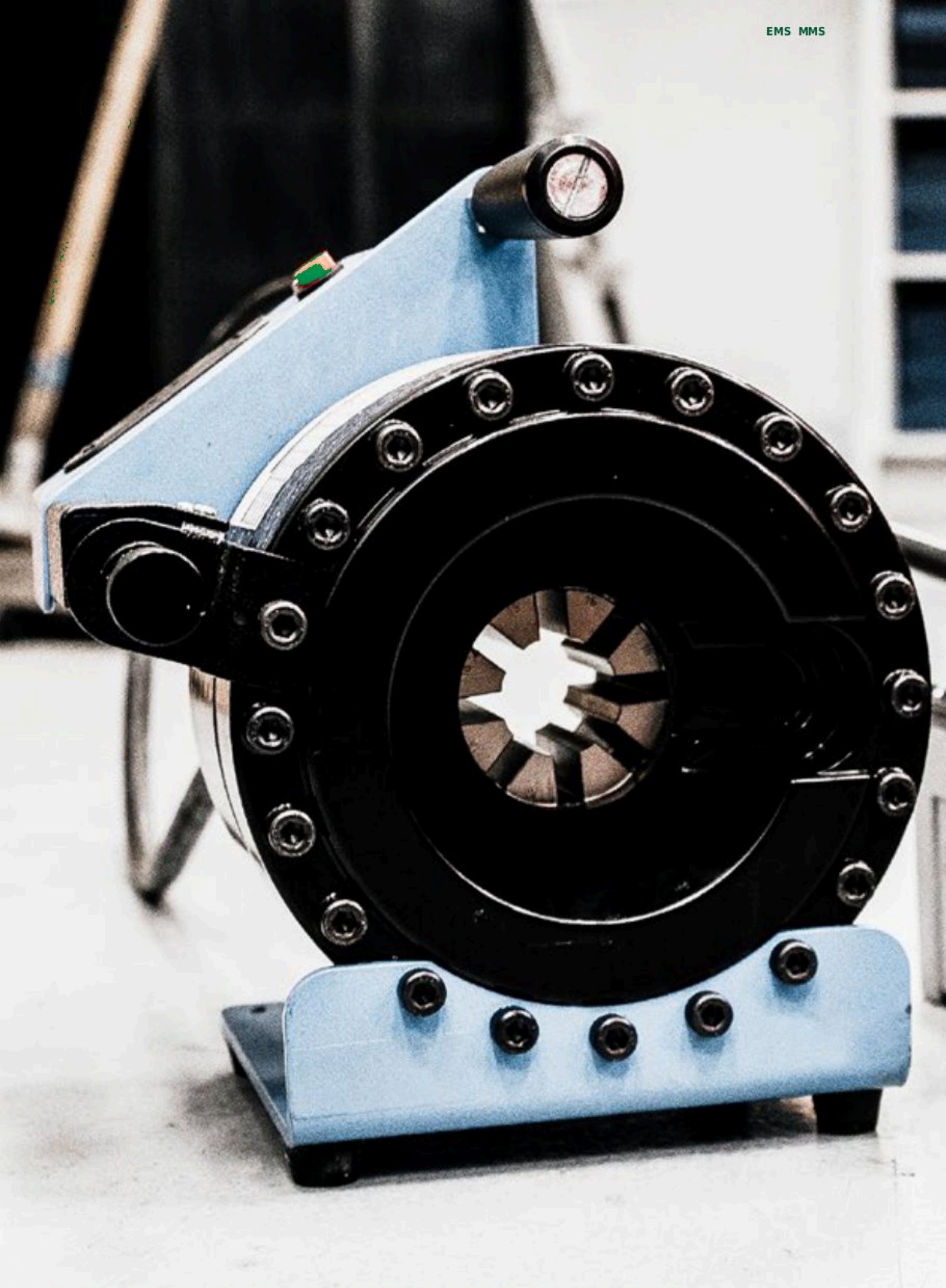
Ø In mm	Details	Max. pressure bar	Max. pressure psi	E mm	L mm	REF
14.5	8L - 1/4"	450	6525	2	300	MMS-HY-02181
17	8S - 10L - 3/8"	445	6453	2	300	MMS-HY-02182
18.5	10S - 12L	420	6090	2	300	MMS-HY-02183
20.5	12S	420	6090	2	300	MMS-HY-02184
22.5	14S - 15L - 1/2"	420	6090	2	300	MMS-HY-02185
24.5	16S - 5/8"	420	6090	2	300	MMS-HY-02186
26.5	18L - 3/4"	420	6090	2	300	MMS-HY-02187
30.5	20S - 22L	420	6090	2.5	300	MMS-HY-02188
34	1"	420	6090	2.5	450	MMS-HY-02189
36.5	25S - 28L	420	6090	2.5	450	MMS-HY-02190
42.5	30S - 1 1/4"	420	6090	2.5	450	MMS-HY-02191
45.5	35L	420	6090	2.5	450	MMS-HY-02192
49	1 1/2"	420	6090	2.5	450	MMS-HY-02193
52.5	38S - 42L	385	5583	2.5	450	MMS-HY-02194
60	2"	350	5075	2.5	450	MMS-HY-02195



RETAINING SYSTEM FOR FLANGES

Ø In mm	Details	Max. pressure bar	Max. pressure psi	E mm	L mm	REF
8.5	1/2" 3000 - 6000	415	6018	4	300	MMS-HY-02175
10.5	3/4" - 1" - 1 1/4" 3000 - 3/4" 6000	420	6090	4	450	MMS-HY-02176
12.5	1 1/2" - 2" 3000 - 1" 6000	420	6090	4	450	MMS-HY-02177
14.5	1 1/4" - 6000	420	6090	4	450	MMS-HY-02178
16.5	1 1/2" - 6000	420	6090	4	450	MMS-HY-02179
20.5	2" - 6000	350	5075	4	450	MMS-HY-02180





04. **TOOLS**

CRIMPING TOOLS



HAND CRIMPING MACHINE

Description:

- Compact crimper with handpump

Contains:

- Crimper
- Hand pump
- Die sets (mm): 16 - 19 - 23 - 27 - 31 - 37
- Drawer to store dies sets
- Table base
- Grease

Technical data:

- Max. hose size: 1"
- Die type: 16
- Crimping force: 1200 kN
- Length: 400 mm
- Width: 350 mm
- Height: 320 mm
- Weight: 43 kg
- Setup by micrometer
- Optical signal when the press size is reached

REF **MMS-HY-02196**



CRIMPING MACHINE

Description:

- Compact crimper with pneumatic pump

Contains:

- Crimper
- Air pump
- Die sets (mm): 16 - 19 - 23 - 27 - 31 - 37
- Drawer to store dies sets
- Table base
- Grease

Technical data:

- Max. hose size: 1"
- Die type: 16
- Crimping force: 1200 kN
- Length: 400 mm
- Width: 350 mm
- Height: 320 mm
- Weight: 43 kg
- Setup by micrometer
- Optical signal when the press size is reached

REF **MMS-HY-02197**

CRIMPING TOOLS



PORTABLE CRIMPING MACHINE

Description:

- Portable crimping machine with handpump

Contains:

- Crimper
- Handpump
- Die sets (mm): 16 - 19 - 23 - 27 - 31 - 37
- Grease

Technical data:

- Max. hose size: 1"
- Die type: 16
- Crimping force: 1200 kN
- Length: 220 mm
- Width: 250 mm
- Height: 310 mm
- Weight: 26 kg
- Setup by micrometer
- Optical signal when the press size is reached

REF **MMS-HY-02198**

PORTABLE PNEUMATIC CRIMPING MACHINE

Description:

- Portable crimper with pneumatic pump

Contains:

- Crimper
- Pneumatic pump
- Die sets (mm): 16 - 19 - 23 - 27 - 31 - 37
- Grease

Technical data:

- Max. hose size: 1"
- Die type: 16
- Crimping force: 1200 kN
- Length: 220 mm
- Width: 250 mm
- Height: 310 mm
- Weight: 26 kg
- Setup by micrometer
- Optical signal when the press size is reached

REF **MMS-HY-02199**

CRIMPING TOOLS



PORTABLE CRIMPING MACHINE WITH HAND AND AIR PUMP

Description:

- Portable crimper with hand pump and air pump

Contains:

- Crimper
- Hand pump
- Air pump
- Die sets (mm): 16 - 19 - 23 - 27 - 31 - 37
- Drawer to store dies sets
- Bolts die sets
- Grease

Technical data:

- Min. hose size: 1/4" (DN6)
- Max. hose size: 1" (DN25)
- Setup by micrometer
- Optical signal when the press size is reached
- Easy to switch from hand pump to air pump
- Crimping force: 1200 kN
- Extra die sets on demand

REF [MMS-HY-02200](#)

Spare parts for 16 series:

- Die set 7 mm: REF [MMS-HY-02205](#)
- Die set 10 mm: REF [MMS-HY-02206](#)
- Die set 12 mm: REF [MMS-HY-02207](#)
- Die set 14 mm: REF [MMS-HY-02208](#)
- Die set 16 mm: REF [MMS-HY-02209](#)
- Die set 19 mm: REF [MMS-HY-02210](#)
- Die set 23 mm: REF [MMS-HY-02211](#)
- Die set 27 mm: REF [MMS-HY-02212](#)
- Die set 31 mm: REF [MMS-HY-02213](#)
- Die set 37 mm: REF [MMS-HY-02214](#)
- Hand pump: REF [MMS-HY-02215](#)
- Air pump: REF [MMS-HY-02216](#)
- Bolts: REF [MMS-HY-02217](#)
- Grease: REF [MMS-HY-02218](#)
- Seal kit: REF [MMS-HY-02219](#)
- Micrometer: REF [MMS-HY-02220](#)



ELECTRIC CRIMPING MACHINE

Description:

- Crimper, workbench model
- Powered by a 3-phase motor at 380 V (220 VAC on request)

Contains:

- Crimper
- Die sets (mm): 14 - 16 - 19 - 22 - 26 - 30 - 34 - 39 - 45
- Dies quick change tool
- Footpedal
- Grease

Technical data:

- Max. hose size: 1 1/4"
- Die type: 32
- Voltage: 380 V
- Crimping force: 1700 kN
- Motor: 3.6 kW
- Length: 610 mm
- Width: 600 mm
- Height: 600 mm
- Weight: 190 kg
- Oil capacity: 40 l - Comes without oil

Option:

- Hydraulic oil 20 l: REF [MMS-HY-02201](#)
- Dies quick change tool: REF [MMS-HY-02202](#)
- Rack for machine: REF [MMS-HY-02203](#)

REF [MMS-HY-02204](#)

CRIMPING TOOLS



ELECTRIC CRIMPING MACHINE

Description:

- For small to medium workshop productions
- Powered by a 3-phase motor at 380 V (220 VAC on request)

Contains:

- Crimper
- Die sets (mm): 14 - 16 - 19 - 22 - 26 - 30 - 34 - 39 - 45
- Dies quick change tool
- Stand with dies holder
- Footpedal
- Grease

Technical data:

- Max. hose size: 1 1/4"
- Die type: 32
- Voltage: 380 V
- Crimping force: 1700 kN
- Motor: 3.6 kW
- Length: 680 mm
- Width: 600 mm
- Height: 1350 mm
- Weight: 226 kg
- Oil capacity: 40 l - Comes without oil

Option:

- Hydraulic oil 20 l: REF [MMS-HY-02201](#)

REF [MMS-HY-02221](#)

ELECTRIC CRIMPING MACHINE

Description:

- For medium workshop productions
- Powered by a 3-phase motor at 380 V (220 VAC on request)

Contains:

- Crimper
- Die sets (mm): 14 - 16 - 19 - 22 - 26 - 30 - 34 - 39 - 45 - 51 - 63 - 69
- Dies quick change tool
- Stand with dies holder
- Footpedal
- Grease

Technical data:

- Max. hose size: 2"
- Die type: 32
- Voltage: 380 V
- Crimping force: 2200 kN
- Motor: 3.6 kW
- Length: 680 mm
- Width: 600 mm
- Height: 1400 mm
- Weight: 263 kg
- Oil capacity: 40 litre - Comes without oil

Option:

- Hydraulic oil 20 l: REF [MMS-HY-02201](#)

REF [MMS-HY-02222](#)

Spare parts for YL20 - YL20S - YL32 series:

- Die set 6 mm: REF [MMS-HY-02223](#)
- Die set 7 mm: REF [MMS-HY-02224](#)
- Die set 10 mm: REF [MMS-HY-02225](#)
- Die set 12 mm: REF [MMS-HY-02226](#)
- Die set 14 mm: REF [MMS-HY-02227](#)
- Die set 16 mm: REF [MMS-HY-02228](#)
- Die set 19 mm: REF [MMS-HY-02229](#)

- Die set 22 mm: REF [MMS-HY-02230](#)
- Die set 26 mm: REF [MMS-HY-02231](#)
- Die set 30 mm: REF [MMS-HY-02232](#)
- Die set 34 mm: REF [MMS-HY-02233](#)
- Die set 39 mm: REF [MMS-HY-02234](#)
- Die set 45 mm: REF [MMS-HY-02235](#)
- Die set 51 mm: REF [MMS-HY-02236](#)
- Die set 57 mm: REF [MMS-HY-02237](#)

Spare parts for YL32 series:

- Die set 63 mm: REF [MMS-HY-02238](#)
- Die set 69 mm: REF [MMS-HY-02239](#)
- Die set 74 mm: REF [MMS-HY-02240](#)
- Die set 78 mm: REF [MMS-HY-02241](#)

- Bolts: REF [MMS-HY-02242](#)
- Master die pin (set 8 with 8 pieces): REF [MMS-HY-02243](#)
- Grease: REF [MMS-HY-02218](#)
- Foot pedal: REF [MMS-HY-02244](#)
- Seal kit: REF [MMS-HY-02245](#)
- Hydraulic oil: REF [MMS-HY-02201](#) (machine needs 40l)

CUTTING TOOL



CUTTING MACHINE FOR HYDRAULIC HOSE

Description:

- Cutting machine for cutting hydraulic hoses upto 2"
- Powered by a 3-phase motor at 380 V

Technical data:

- Max. hose size: 2" - 4SH
- Blade dimensions: 350 x 2.5 x 32 mm
- Motor: 4 kW
- Voltage: 380 V
- Rotation speed: 2800 rpm for 50 Hz
- Length: 720 mm
- Width: 480 mm
- Height: 530 mm
- Weight: 55 kg
- Spare part: saw blade

REF [MMS-HY-02246](#)

REF [MMS-HY-02247](#)

SKIVING TOOLS



HOSE SKIVING MACHINE

Description:

- Electric hose skiving machine

Technical data:

- Max. hose size: 2" - 4SP - 4SH
- External skiving: 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
- Motor: 0.4 kW
- Voltage: 380 V
- Rotation speed: 284 rpm
- Length: 500 mm
- Width: 660 mm
- Height: 650 mm
- Weight: 110 kg

Option:

- Internal skiving: 3/4", 1", 1 1/4", 1 1/2", 2" REF [MMS-HY-02248](#)

* Request this option to your customer service

REF [MMS-HY-02249](#)

SKIVING TOOLS



HOSE SKIVING MACHINE

Description:

- Manual internal and external skiving machine with stand

Technical data:

- External skiving: 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
- Internal skiving: 3/4", 1", 1 1/4", 1 1/2", 2"
- Length: 450 mm
- Width : 245 mm
- Height : 260 mm
- Weight: 12 kg

REF **MMS-HY-02250**

RACK



RACK TO STOCK HOSES

Technical data:

- Height: 2110 mm
- Width: 1180 mm
- Weight: 98 kg
- Recommended load per tray: 70 kg
- Maximum load per tray: 100 kg
- Recommended total load: 600 kg

REF **MMS-HY-02251**

MEASURING TOOLS



THREAD GAUGE

Technical data:

- Screw pitch gauge for ISO 60° metric and whitworth 55° threads

REFMMS-HY-02252



VERNIER CALIPER

Technical data:

- Max. measuring length: 150 mm
- Reading to 0.05 mm

REFMMS-HY-02253

VACUUM PUMPS



PNEUMATIC 'ASPI-QUICK' VACUUM PUMP

Technical data:

- Supplied with Hydroclips case type M
- Suitable for 5 to 8 bar air inlet
- Vacuum pressure: -650 mbar (relative) -850 mbar (max.)
- Airflow: 28 lpm
- Vacuum pressure gauge: -1 to 0 bar
- Dimensions (l x w x h): 140 x 70 x 65 mm
- Supplied with Ø 80 mm magnetic cap
- Weight: 3.78 kg

REF **MMS-HY-02254**



VACUUM PUMP FOR REPAIRING OR MAINTENANCE OF HYDRAULIC CIRCUIT

Description:

- Hydraulic intervention without the need to drain the oil in the reservoir
- No leaks while operating
- The oil is retained in the reservoir through drop of pressure
- Easy changeover of the magnet cap and the other plugs using clamp inserts
- Control of the Vacuum using a pressure gauge and a vent valve

Technical details:

- Voltage 12 VDC Power 75 W
- Max. relative vacuum: 770 mbar
- Air flow: 34 l/min
- Length of the supply cable with crocodile clips: 8 m
- Coil hose: 4 m
- Display of the vacuum value with a pressure gauge scaled from -1 to 0 bar
- Carrying case with cable compartment
- Dimension of the case: 508 x 203 x 230 mm
- Weight: 9 kg
- With magnet cap Ø 80 mm and cylindrical stubs

REF **MMS-HY-02255**

VACUUM PUMPS



CONE FOR VACUUM PUMP DIAMETER 10 TO 75 MM

Description:

- Easily adapts to any type of tank opening from 10 to 75 mm diameter

Technical details:

- Total height 87 mm
- Elastomer material
- 2 x swivel elbow connectors: diameter 6 mm & 8 mm

REF [MMS-HY-02256](#)

FILTER PUMPS



FILTER PUMP

Technical details:

- Load of 30 liters per minute
- Maximum pressure: 3 bar
- Protection: IP55
- single phase engine (0.75 Kx till 1450 T/min)
- Dimensions: h=855 mm, l=320 mm, Ep=300 mm
- Weight: 25 kg

Delivered with filter cartouche (REF [MMS-HY-02256](#); REF [MMS-HY-02258](#))

REF [MMS-HY-02259](#)

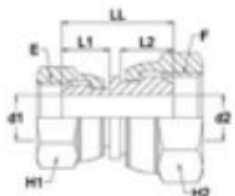
NOTES



05. **ADAPTORS**

ADAPTORS TYPE BSP

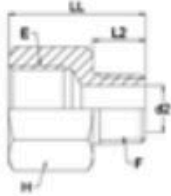
ADAPTOR - FEMALE SWIVEL BSP / FEMALE SWIVEL BSP

	Description	E BSP	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H1 mm	H2 mm	REF
	FS1/8BSP- FS1/8BSP	1/8-28	1/8-28	10.2	10.2	22.5	3.5	3.5	14	14	MMS-HY-02260
	FS1/4BSP- FS1/4BSP	1/4-19	1/4-19	11.3	11.3	24.5	4.7	4.7	19	19	MMS-HY-02261
	FS1/4BSP- FS3/8BSP	1/4-19	3/8-19	11.3	12.5	26	4.7	7.9	19	22	MMS-HY-02262
	FS1/4BSP- FS1/2BSP	1/4-19	1/2-14	11.3	15	29.5	4.5	9.7	19	27	MMS-HY-02263
	FS1/4BSP- FS5/8BSP	1/4-19	5/8-14	11.3	14.3	30.5	4.5	14.3	19	30	MMS-HY-02264
	FS1/4BSP- FS3/4BSP	1/4-19	3/4-14	11.3	17.8	32	4.5	15.5	19	32	MMS-HY-02265
	FS3/8BSP- FS3/8BSP	3/8-19	3/8-19	12.5	12.5	27	7.9	7.9	22	22	MMS-HY-02266
	FS3/8BSP- FS1/2BSP	3/8-19	1/2-14	12.5	15	30.5	7.9	11.1	22	27	MMS-HY-02267
	FS3/8BSP- FS5/8BSP	3/8-19	5/8-14	12.5	14.3	30	7.1	12	22	30	MMS-HY-02268
	FS3/8BSP- FS3/4BSP	3/8-19	3/4-14	12.5	17.8	33.5	7.1	15.5	22	32	MMS-HY-02269
	FS1/2BSP- FS1/2BSP	1/2-14	1/2-14	15	15	33	11.1	11.1	27	27	MMS-HY-02270
	FS1/2BSP- FS5/8BSP	1/2-14	5/8-14	15	14.3	32.5	9.7	12	27	30	MMS-HY-02271
	FS1/2BSP- FS3/4BSP	1/2-14	3/4-14	15	17.8	36	11.1	16.7	27	32	MMS-HY-02272
	FS5/8BSP- FS5/8BSP	5/8-14	5/8-14	14.3	14.3	31.5	14.3	14.3	30	30	MMS-HY-02273
	FS5/8BSP- FS3/4BSP	5/8-14	3/4-14	14.3	17.8	35	12	15.5	30	32	MMS-HY-02274
	FS5/8BSP- FS1 BSP	5/8-14	1-11	14.3	17.8	36	14.3	22.2	30	41	MMS-HY-02275
	FS3/4BSP- FS3/4BSP	3/4-14	3/4-14	17.8	17.8	38.5	16.7	16.7	32	32	MMS-HY-02276
	FS3/4BSP- FS1 BSP	3/4-14	1-11	17.8	19.5	41.5	16.7	22.2	32	41	MMS-HY-02277
	FS1 BSP- FS1 BSP	1-11	1-11	19.5	19.5	43	22.2	22.2	41	41	MMS-HY-02278
	FS1 BSP- FS1 1/4BSP	1-11	1 1/4-11	19.5	21.4	45	20.4	26	41	50	MMS-HY-02279
	FS1 1/4BSP- FS1 1/4BSP	1 1/4-11	1 1/4-11	21.4	21.4	47	28.6	28.6	50	50	MMS-HY-02280

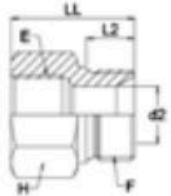
ADAPTOR - FEMALE BSP FIX / FEMALE BSP

	Description	E BSP	F BSP	LL mm	H mm	REF
	F1/8BSP- F1/8BSP	1/8-28	1/8-28	20	14	MMS-HY-02281
	F1/8BSP- F1/4BSP	1/4-19	1/8-28	24	19	MMS-HY-02282
	F1/4BSP- F1/4BSP	1/4-19	1/4-19	25	19	MMS-HY-02283
	F1/4BSP- F3/8BSP	3/8-19	1/4-19	27	22	MMS-HY-02284
	F1/4BSP- F1/2BSP	1/2-14	1/4-19	33	27	MMS-HY-02285
	F3/8BSP- F3/8BSP	3/8-19	3/8-19	27	22	MMS-HY-02286
	F3/8BSP- F1/2BSP	1/2-14	3/8-19	32	27	MMS-HY-02287
	F1/2BSP- F1/2BSP	1/2-14	1/2-14	35	27	MMS-HY-02288
	F1/2BSP- F5/8BSP	3/4-14	5/8-14	36	32	MMS-HY-02289
	F1/2BSP- F3/4BSP	3/4-14	1/2-14	36	32	MMS-HY-02290
	F5/8BSP- F5/8BSP	5/8-14	5/8-14	38	32	MMS-HY-02291
	F3/4BSP- F3/4BSP	3/4-14	3/4-14	40	32	MMS-HY-02292
	F3/4BSP- F1 BSP	1-11	3/4-14	45	41	MMS-HY-02293
	F1 BSP- F1 BSP	1-11	1-11	45	41	MMS-HY-02294
	F1 1/4BSP- F1 1/4BSP	1 1/4-11	1 1/4-11	50	50	MMS-HY-02295
	F1 1/2BSP- F1 1/2BSP	1 1/2-11	1 1/2-11	55	55	MMS-HY-02296

ADAPTOR - FEMALE BSP / MALE BSPT

	Description	E BSP	F BSPT	L2 mm	LL mm	d2 mm	H mm	REF
	F1/8BSP-M1/8BSPT	1/8-28	1/8-28	10	58.6	4.5	14	MMS-HY-02297
	F1/8BSP-M1/4BSPT	1/4-19	1/8-28	10	30.5	4.5	19	MMS-HY-02298
	F1/4BSP-M1/4BSPT	1/8-28	1/8-28	10	31.8	4.5	14	MMS-HY-02299
	F1/4BSP-M3/8BSPT	3/8-19	1/4-19	14	34.5	7	22	MMS-HY-02300
	F3/8BSP-M3/8BSPT	3/8-19	3/8-19	15	34.5	10	22	MMS-HY-02301
	F3/8BSP-M1/2BSPT	1/2-14	3/8-19	15	40	10	27	MMS-HY-02302
	F1/2BSP-M1/2BSPT	1/2-14	1/2-14	19	43	13	27	MMS-HY-02303

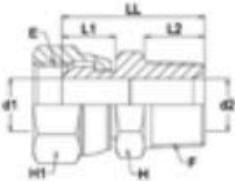
ADAPTOR - FEMALE BSP FIX / MALE METRIC

	Description	E BSP	F Metric	L2 mm	LL mm	d2 mm	H mm	REF
	F1/8BSP-MM22x1.5	1/8-28	M22X1.5	14	26	4	19	MMS-HY-02304
	F1/4BSP-MM12x1.5	1/4-19	M12X1.5	10	30	4	19	MMS-HY-02305
	F1/4BSP-MM14x1.5	1/4-19	M14X1.5	12	31	6	19	MMS-HY-02306
	F1/4BSP-MM16x1.5	1/4-19	M16X1.5	12	31	8	22	MMS-HY-02307
	F1/4BSP-MM18x1.5	1/4-19	M18X1.5	12	31	10	24	MMS-HY-02308
	F1/4BSP-MM21x1.5	1/4-19	M21X1.5	14	31	14.1	27	MMS-HY-02309
	F1/4BSP-MM22x1.5	1/4-19	M22X1.5	14	26	14.1	27	MMS-HY-02310
	F3/8BSP-MM12x1.5	3/8-19	M12X1.5	10	31	4	22	MMS-HY-02311
	F3/8BSP-MM16x1.5	3/8-19	M16X1.5	12	32.5	8	22	MMS-HY-02312
	F3/8BSP-MM18x1.5	3/8-19	M18X1.5	12	32	10	24	MMS-HY-02313
	F3/8BSP-MM21x1.5	3/8-19	M21X1.5	14	32.5	10	24	MMS-HY-02314
	F3/8BSP-MM22x1.5	3/8-19	M22X1.5	14	35	14.1	27	MMS-HY-02315
	F1/2BSP-MM16x1.5	1/2-14	M16X1.5	12	38	8	27	MMS-HY-02316
	F1/2BSP-MM18x1.5	1/2-14	M18X1.5	12	38	10	27	MMS-HY-02317
	F1/2BSP-MM22x1.5	1/2-14	M22X1.5	14	38	14.1	27	MMS-HY-02318
	F1/2BSP-MM26x1.5	1/2-14	M26X1.5	16	38.5	15	32	MMS-HY-02319

ADAPTOR - MALE METRIC / FEMALE SWIVEL BSP

	Description	E Metric	F BSP	REF
	MM16x1.5-FS3/8BSP	M16X1.5	3/8-19	MMS-HY-02320
	MM18x1.5-FS3/8BSP	M18X1.5	3/8-19	MMS-HY-02321
	MM18x1.5-FS1/2BSP	M18X1.5	1/2-14	MMS-HY-02322
	MM22x1.5-FS3/8BSP	M22X1.5	3/8-19	MMS-HY-02323
	MM22x1.5-FS1/2BSP	M22X1.5	1/2-14	MMS-HY-02324
	MM22x1.5-FS3/4BSP	M22X1.5	3/4-14	MMS-HY-02325

ADAPTOR - FEMALE SWIVEL BSP / MALE NPT

	Description	E BSP	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H1 mm	REF
	FS1/4BSP-M1/4NPT	1/4-19	1/4-18	11.3	14.2	32.5	4.7	6	14	19	MMS-HY-02326
	FS3/8BSP-M1/4NPT	3/8-19	1/4-18	12.5	14.2	33.5	7.9	6	17	22	MMS-HY-02327
	FS1/4BSP-M3/8NPT	1/4-19	3/8-18	11.3	14.2	33.5	4.7	9	19	19	MMS-HY-02328
	FS1/2BSP-M3/8NPT	1/2-14	3/8-18	15	14.2	37	11.1	9	19	27	MMS-HY-02329
	FS3/8BSP-M1/2NPT	3/8-19	1/2-14	12.5	19	39.5	7.9	12	22	22	MMS-HY-02330
	FS1/2BSP-M1/2NPT	1/2-14	1/2-14	15	19	42	11.1	11.1	22	27	MMS-HY-02331
	FS3/4BSP-M3/4NPT	3/4-14	3/4-14	17.8	19	46	16.5	16.5	27	32	MMS-HY-02332

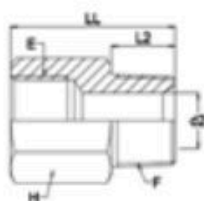
ADAPTORS TYPE BSP

ADAPTOR - FEMALE SWIVEL BSP / MALE NPT

Description	E BSP	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H1 mm	REF
FS1BSP-M1 NPT	1-11	1-11	19.5	23.9	53.5	21.5	21.5	36	41	MMS-HY-02333

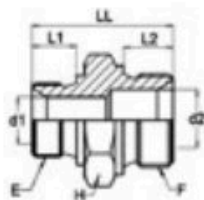
ADAPTOR - FEMALE BSP / MALE NPT

Description	E BSP	F NPT	L2 mm	LL mm	d2 mm	H mm	REF
F1/8BSP-M1/4NPT	1/8-28	1/4-18	14.2	21.6	6	14	MMS-HY-02334
F1/4BSP-M1/4NPT	1/4-19	1/4-18	14.2	35.5	6	19	MMS-HY-02335
F1/4BSP-M3/8NPT	1/4-19	3/8-18	14.2	21.6	9	19	MMS-HY-02336
F3/8BSP-M3/8NPT	3/8-19	3/8-18	14.2	36.6	9	22	MMS-HY-02337
F1/4BSP-M1/2NPT	1/4-19	1/2-14	19	27.9	12	22	MMS-HY-02338
F3/8BSP-M1/2NPT	3/8-19	1/2-14	19	27.9	12	22	MMS-HY-02339
F1/2BSP-M1/2NPT	1/2-14	1/2-14	19	47.5	12	27	MMS-HY-02340
F3/8BSP-M3/4NPT	3/8-19	3/4-14	19	48	16.5	27	MMS-HY-02341
F1/2BSP-M3/4NPT	1/2-14	3/4-14	19	29.7	16.5	27	MMS-HY-02342
F3/4BSP-M3/4NPT	3/4-14	3/4-14	19	49	16.5	32	MMS-HY-02343
F1/4BSP-M1 NPT	1/4-19	1-11.5	23.9	33	11.5	34	MMS-HY-02344
F1/2BSP-M1 NPT	1/2-14	1-11.5	23.9	34.5	18.7	36	MMS-HY-02345
F3/4BSP-M1 NPT	3/4-14	1-11.5	23.9	36	20.5	40	MMS-HY-02346
F1 BSP-M1 NPT	1-11	1-11.5	23.9	60.2	21.5	41	MMS-HY-02347



ADAPTOR - MALE BSP / MALE BSP

Description	E BSP	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1/8BSP -M1/8BSP	1/8-28	1/8-28	8	8	24	3.5	3.5	14	MMS-HY-02348
M1/8BSP-M1/4BSP	1/8-28	1/4-19	8	11	28.5	3.5	4.7	19	MMS-HY-02349
M1/8BSP-M3/8BSP	1/8-28	3/8-19	8	12	30	3.5	7.9	22	MMS-HY-02350
M1/8BSP-M1/2BSP	1/8-28	1/2-14	8	14	30.5	3.5	11.1	27	MMS-HY-02351
M1/8BSP-M5/8BSP	1/8-28	5/8-14	8	16	31	3.5	14.3	30	MMS-HY-02352
M1/8BSP-M3/4BSP	1/8-28	3/4-14	8	16	31.5	3.5	14.3	32	MMS-HY-02353
M1/4BSP-M1/4BSP	1/4-19	1/4-19	11	11	32	4.7	4.7	19	MMS-HY-02354
M1/4BSP-M3/8BSP	1/4-19	3/8-19	11	12	33.5	4.7	7.9	33.5	MMS-HY-02355
M1/4BSP-M1/2BSP	1/4-19	1/2-14	11	14	38	4.7	11.1	27	MMS-HY-02356
M1/4BSP-M5/8BSP	1/4-19	5/8-14	11	16	40	4.7	14.3	30	MMS-HY-02357
M1/4BSP-M3/4BSP	1/4-19	3/4-14	11	16	45	4.7	14.3	30	MMS-HY-02358
M1/4BSP-M1 BSP	1/4-19	1-11	11	18	49	4.7	22.2	41	MMS-HY-02359
M3/8BSP-M3/8BSP	3/8-19	3/8-19	12	12	35	7.9	7.9	22	MMS-HY-02360
M3/8BSP-M1/2BSP	3/8-19	1/2-14	12	14	39.5	7.9	11.1	27	MMS-HY-02361
M3/8BSP-M5/8BSP	3/8-19	5/8-14	12	16	40.5	7.9	14.3	30	MMS-HY-02362
M3/8BSP-M3/4BSP	3/8-19	3/4-14	12	16	42.5	7.9	16.7	32	MMS-HY-02363
M3/8BSP-M1 BSP	3/8-19	1-11	12	18	46.5	7.9	22.2	41	MMS-HY-02364
M3/8BSP-M1 1/4BSP	3/8-19	1 1/4-11	12	20	47	7.9	28.6	50	MMS-HY-02365
M1/2BSP-M1/2BSP	1/2-14	1/2-14	14	14	42	11.1	11.1	27	MMS-HY-02366
M1/2BSP-M5/8BSP	1/2-14	5/8-14	14	16	43	11.1	14.3	30	MMS-HY-02367
M1/2BSP-M3/4BSP	1/2-14	3/4-14	14	16	45	11.1	16.7	32	MMS-HY-02368
M1/2BSP-M1 BSP	1/2-14	1-11	14	18	49	11.1	22.2	41	MMS-HY-02369
M1/2BSP-M1 1/4BSP	1/2-14	1 1/4-11	14	20	51	11.1	28.6	50	MMS-HY-02370
M1/2BSP-M1 1/2BSP	1/2-14	1 1/2-11	14	22	54	11.1	33.3	55	MMS-HY-02371
M1/2BSP-M2 BSP	1/2-14	2-11	14	24	56	11.1	46	70	MMS-HY-02372
M5/8BSP-M5/8BSP	5/8-14	5/8-14	16	16	45	14.3	14.3	30	MMS-HY-02373
M5/8BSP-M3/4BSP	5/8-14	3/4-14	16	16	47	14.3	16.7	32	MMS-HY-02374

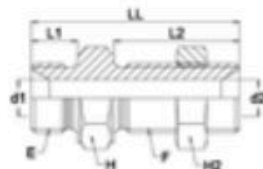


ADAPTOR - MALE BSP / MALE BSP

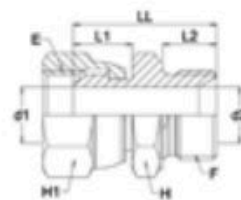
Description	E BSP	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M5/8BSP-M1 BSP	5/8-14	1-11	16	18	49	14.3	22.2	41	MMS-HY-02375
M5/8BSP-M1 1/4BSP	5/8-14	1 1/4-11	16	20	51	14.3	28.6	50	MMS-HY-02376
M3/4BSP-M3/4BSP	3/4-14	3/4-14	16	16	47	16.7	16.7	32	MMS-HY-02377
M3/4BSP-M1 BSP	3/4-14	1-11	16	18	51	16.7	22.2	41	MMS-HY-02378
M3/4BSP-M1 1/4BSP	3/4-14	1 1/4-11	16	20	54	16.7	28.6	50	MMS-HY-02379
M3/4BSP-M1 1/2BSP	3/4-14	1 1/2-11	16	22	56	16.7	33.3	55	MMS-HY-02380
M3/4BSP-M2 BSP	3/4-14	2-11	16	24	58	16.7	46	70	MMS-HY-02381
M1 BSP-M1 BSP	1-11	1-11	18	18	53	22.2	22.2	41	MMS-HY-02382
M1 BSP-M1 1/4BSP	1-11	1 1/4-11	18	20	56	22.2	28.6	50	MMS-HY-02383
M1 BSP-M1 1/2BSP	1-11	1 1/2-11	18	22	58	22.2	33.3	55	MMS-HY-02384
M1 BSP-M2 BSP	1-11	2-11	18	24	60	22.2	46	70	MMS-HY-02385
M1 1/4BSP-M1 1/4BSP	1 1/4-11	1 1/4-11	20	20	58	28.6	28.6	50	MMS-HY-02386
M1 1/4BSP-M1 1/2BSP	1 1/4-11	1 1/2-11	20	22	60	28.6	33.3	55	MMS-HY-02387
M1 1/4BSP-M2 BSP	1 1/4-11	2-11	20	24	65.5	28.6	46	70	MMS-HY-02388
M1 1/2BSP-M1 1/2BSP	1 1/2-11	1 1/2-11	22	22	62	33.3	33.3	55	MMS-HY-02389
M1 1/2BSP-M2 BSP	1 1/2-11	2-11	22	24	67.5	33.3	46	70	MMS-HY-02390
M2 BSP-M2 BSP	2-11	2-11	24	24	70	46	46	70	MMS-HY-02391

ADAPTOR - MALE BSP / MALE BULKHEAD BSP + LOCKNUT

Description	E BSP	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H2 mm	REF
M1/8BSP-M1/8BSP BL	1/8-28	1/8-28	10	33	49	3.5	3.5	14	14	MMS-HY-02392
M1/4BSP-M1/4BSP BL	1/4-19	1/4-19	12	35	53	4.7	4.7	19	19	MMS-HY-02393
M3/8BSP-M3/8BSP BL	3/8-19	3/8-19	13.5	35	56.5	7.9	7.9	22	22	MMS-HY-02394
M1/2BSP-M1/2BSP BL	1/2-14	1/2-14	16	39	65	11.1	11.1	27	27	MMS-HY-02395
M5/8BSP-M5/8BSP BL	5/8-14	5/8-14	17.5	40	67.5	14.3	14.3	30	30	MMS-HY-02396
M3/4BSP-M3/4BSP BL	3/4-14	3/4-14	18.5	42	71.5	16.7	16.7	32	32	MMS-HY-02397
M1 BSP-M1 BSP BL	1-11	1-11	20.5	50	84	22.2	22.2	41	41	MMS-HY-02398
M1 1/4BSP-M1 1/4BSP BL	1 1/4-11	1 1/4-11	20.5	52	89.5	28.6	28.6	50	50	MMS-HY-02399
M1 1/2BSP-M1 1/2BSP BL	1 1/2-11	1 1/2-11	23	55	93	33.3	33.3	55	55	MMS-HY-02400
M2 BSP-M2 BSP BL	2-11	2-11	25.5	55	97.5	46	46	70	70	MMS-HY-02401

**ADAPTOR - FEMALE SWIVEL BSP / MALE BSP**

Description	E BSP	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H1 mm	REF
FS1/8BSP-M1/8BSP	1/8-28	1/8-28	10.2	8	22	3.5	3.5	14	14	MMS-HY-02402
FS1/4BSP-M1/8BSP	1/8-28	1/4-19	10.2	11	29.9	3.5	4.7	19	14	MMS-HY-02403
FS1/8BSP-M1/4BSP	1/4-19	1/8-28	11.3	8	28	4.7	3.5	14	19	MMS-HY-02404
FS1/4BSP-M1/4BSP	1/4-19	1/4-19	11.3	11	31	4.7	4.7	19	19	MMS-HY-02405
FS3/8BSP-M1/4BSP	1/4-19	3/8-19	11.3	12	33.8	4.7	7.9	22	19	MMS-HY-02406
FS1/2BSP-M1/4BSP	1/4-19	1/2-14	11.3	14	37.3	4.7	11.1	27	19	MMS-HY-02407
FS3/4BSP-M1/4BSP	1/4-19	3/4-14	11.3	16	38.5	4.5	16.7	32	19	MMS-HY-02408
FS1/4BSP-M3/8BSP	3/8-19	1/4-19	12.5	11	34	7.9	4.7	19	22	MMS-HY-02409
FS3/8BSP-M3/8BSP	3/8-19	3/8-19	12.5	12	35	7.9	7.9	22	22	MMS-HY-02410
FS1/2BSP-M3/8BSP	3/8-19	1/2-14	12.5	14	38.5	7.9	11.1	27	22	MMS-HY-02411
FS5/8BSP-M3/8BSP	3/8-19	5/8-14	12.5	16	40.2	7.1	14.3	30	22	MMS-HY-02412
FS1/4BSP-M1/2BSP	1/2-14	1/4-19	15	11	38	11.1	4.7	19	27	MMS-HY-02413
FS3/8BSP-M1/2BSP	1/2-14	3/8-19	15	12	39	11.1	7.9	22	27	MMS-HY-02414
FS1/2BSP-M1/2BSP	1/2-14	1/2-14	15	14	41	11.1	11.1	27	27	MMS-HY-02415
FS5/8BSP-M1/2BSP	1/2-14	5/8-14	15	16	41.3	11.1	14.3	30	27	MMS-HY-02416



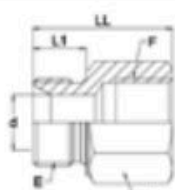
ADAPTORS TYPE BSP

ADAPTOR - FEMALE SWIVEL BSP / MALE BSP

Description	E BSP	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H1 mm	REF
FS3/4BSP-M1/2BSP	1/2-14	3/4-14	15	16	42.2	11.1	16.7	32	27	MMS-HY-02417
FS1 BSP-M1/2BSP	1/2-14	1-11	15	19	46.5	9.7	22.2	41	27	MMS-HY-02418
FS1/2BSP-M5/8BSP	5/8-14	1/2-14	14.3	14	40	14.3	11.1	27	30	MMS-HY-02419
FS5/8BSP-M5/8BSP	5/8-14	5/8-14	14.3	16	42	14.3	14.3	30	30	MMS-HY-02420
FS3/4BSP-M5/8BSP	5/8-14	3/4-14	14.3	16	41.5	12	16.7	32	30	MMS-HY-02421
FS1 BSP-M5/8BSP	5/8-14	1-11	14.3	19	45.8	12	22.2	41	30	MMS-HY-02422
FS3/8BSP-M3/4BSP	3/4-14	3/8-19	17.8	12	41	15.5	7.9	27	32	MMS-HY-02423
FS1/2BSP-M3/4BSP	3/4-14	1/2-14	17.8	14	43	16.7	11.1	27	32	MMS-HY-02424
FS5/8BSP-M3/4BSP	3/4-14	5/8-14	17.8	16	45	16.7	14.3	30	32	MMS-HY-02425
FS3/4BSP-M3/4BSP	3/4-14	3/4-14	17.8	16	45	16.7	16.7	32	32	MMS-HY-02426
FS1 BSP-M3/4BSP	3/4-14	1-11	17.8	19	49.3	16.7	22.2	41	32	MMS-HY-02427
FS1/2BSP-M1 BSP	1-11	1/2-14	19.5	14	46	20.4	11.1	32	41	MMS-HY-02428
FS5/8BSP-M1 BSP	1-11	5/8-14	19.5	16	48	22.2	14.3	32	41	MMS-HY-02429
FS3/4BSP-M1 BSP	1-11	3/4-14	19.5	16	48	22.2	16.7	32	41	MMS-HY-02430
FS1 BSP-M1 BSP	1-11	1-11	19.5	19	51	22.2	22.2	41	41	MMS-HY-02431
FS1 1/4BSP-M1 BSP	1-11	1 1/4-11	19.5	20	53.1	22.2	28.6	50	41	MMS-HY-02432
FS1 BSP-M1 1/4BSP	1 1/4-11	1-11	21.4	19	54	28.6	22.2	41	50	MMS-HY-02433
FS3/4BSP-M1 1/4BSP	1 1/4-11	3/4-14	21.4	16	51	26	16.7	41	50	MMS-HY-02434
FS1/4BSP-M1 1/4BSP	1 1/4-11	1 1/4-11	21.4	20	55	28.6	28.6	50	50	MMS-HY-02435
FS1/2BSP-M1 1/2BSP	1 1/2-11	1 1/2-11	22	22	64	33.3	33.3	50	55	MMS-HY-02436
FS2 BSP-M2 BSP	2-11	2-11	22.9	25	69	46	46	70	70	MMS-HY-02437

ADAPTOR - MALE BSP 60° / FEMALE BSP

Description	E BSP	F BSP	L1 mm	LL mm	d1 mm	H mm	REF
M1/8BSP-F1/8BSP	1/8-28	1/8-28	8	23	3.5	14	MMS-HY-02438
M1/8BSP-F1/4BSP	1/8-28	1/4-19	8	28.5	3.5	19	MMS-HY-02439
M1/8BSP-F3/8BSP	1/8-28	3/8-19	8	28	3.5	19	MMS-HY-02440
M1/8BSP-F1/2BSP	1/8-28	1/2-14	8	24	3.5	19	MMS-HY-02441
M1/4BSP-F1/8BSP	1/4-19	1/8-28	11	28	4.7	19	MMS-HY-02442
M1/4BSP-F1/4BSP	1/4-19	1/4-19	11	30	4.7	19	MMS-HY-02443
M1/4BSP-F3/8BSP	1/4-19	3/8-19	11	31	4.7	22	MMS-HY-02444
M1/4BSP-F1/2BSP	1/4-19	1/2-14	11	38	4.7	27	MMS-HY-02445
M3/8BSP-F1/8BSP	3/8-19	1/8-28	12	21	8.6	22	MMS-HY-02446
M3/8BSP-F1/4BSP	3/8-19	1/4-19	12	21	11.5	22	MMS-HY-02447
M3/8BSP-F3/8BSP	3/8-19	3/8-19	12	31	7.9	22	MMS-HY-02448
M3/8BSP-F1/2BSP	3/8-19	1/2-14	12	38	7.9	27	MMS-HY-02449
M3/8BSP-F3/4BSP	3/8-19	3/4-14	12	26	7.9	27	MMS-HY-02450
M1/2BSP-F1/8BSP	1/2-14	1/8-28	14	24	8.6	27	MMS-HY-02451
M1/2BSP-F1/4BSP	1/2-14	1/4-19	14	24	11.5	27	MMS-HY-02452
M1/2BSP-F3/8BSP	1/2-14	3/8-19	14	24	14.9	27	MMS-HY-02453
M1/2BSP-F1/2BSP	1/2-14	1/2-14	14	38	11.1	27	MMS-HY-02454
M1/2BSP-F5/8BSP	1/2-14	5/8-14	14	24	11.1	27	MMS-HY-02455
M1/2BSP-F3/4BSP	1/2-14	3/4-14	14	43	11.1	32	MMS-HY-02456
M1/2BSP-F1 BSP	1/2-14	1-11	14	30	11.1	32	MMS-HY-02457
M1/2BSP-F1/4BSP	1/2-14	1 1/4-11	14	38	11.1	32	MMS-HY-02458
M5/8BSP-F3/8BSP	5/8-14	3/8-19	16	36	12	32	MMS-HY-02459
M5/8BSP-F1/2BSP	5/8-14	1/2-14	16	24	14.1	32	MMS-HY-02460
M5/8BSP-F5/8BSP	5/8-14	5/8-14	16	30	15.2	32	MMS-HY-02461
M5/8BSP-F3/4BSP	5/8-14	3/4-14	16	32	16	32	MMS-HY-02462
M3/4BSP-F1/4BSP	3/4-14	1/4-19	16	26	16.7	32	MMS-HY-02463



ADAPTOR - MALE BSP 60° / FEMALE BSP

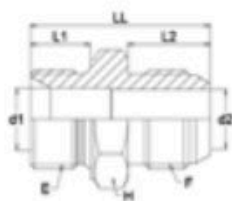
Description	E BSP	F BSP	L1 mm	LL mm	d1 mm	H mm	REF
M3/4BSP-F3/8BSP	3/4-14	3/8-19	16	26	16.7	32	MMS-HY-02464
M3/4BSP-F1/2BSP	3/4-14	1/2-14	16	26	18.6	32	MMS-HY-02465
M3/4BSP-F5/8BSP	3/4-14	5/8-14	16	32	16	32	MMS-HY-02466
M3/4BSP-F3/4BSP	3/4-14	3/4-14	16	42	16.7	32	MMS-HY-02467
M3/4BSP-F1 BSP	3/4-14	1-11	16	52.5	16.7	41	MMS-HY-02468
M3/4BSP-F1 1/4BSP	3/4-14	1 1/4-11	16	33	21	41	MMS-HY-02469
M1 BSP-F1/4BSP	1-11	1/4-19	19	30	22.2	41	MMS-HY-02470
M1 BSP-F3/8BSP	1-11	3/8-19	19	30	22.2	41	MMS-HY-02471
M1 BSP-F1/2BSP	1-11	1/2-14	19	30	18.6	41	MMS-HY-02472
M1 BSP-F3/4BSP	1-11	3/4-14	19	30	22.2	41	MMS-HY-02473
M1 BSP-F1 BSP	1-11	1-11	19	51	22.2	41	MMS-HY-02474
M1 BSP-F1 1/4BSP	1-11	1 1/4-11	19	55	22.2	50	MMS-HY-02475
M1 BSP-F1 1/2BSP	1-11	1 1/2-11	19	38	22.2	50	MMS-HY-02476
M1 1/4BSP-F3/8BSP	1 1/4-11	3/8-19	20	30	24	50	MMS-HY-02477
M1 1/4BSP-F1/2BSP	1 1/4-11	1/2-14	20	33	28.6	50	MMS-HY-02478
M1 1/4BSP-F3/4BSP	1 1/4-11	3/4-14	20	33	14.1	50	MMS-HY-02479
M1 1/4BSP-F1 BSP	1 1/4-11	1-11	20	33	30.3	50	MMS-HY-02480
M1 1/4BSP-F1 1/4BSP	1 1/4-11	1 1/4-11	20	32	24	50	MMS-HY-02481
M1 1/4BSP-F1 1/2BSP	1 1/4-11	1 1/2-11	20	36	33.3	55	MMS-HY-02482
M1 1/2BSP-F1 BSP	1 1/2-11	1-11	22	38	30.3	55	MMS-HY-02483
M1 1/2BSP-F1 1/4BSP	1 1/2-11	1 1/4-11	22	38	33.3	55	MMS-HY-02484
M1 1/2BSP-F1 1/2BSP	1 1/2-11	1 1/2-11	22	60	33.3	55	MMS-HY-02485
M2 BSP-F2 BSP	2-11	2-11	25	63	46	70	MMS-HY-02486

ADAPTOR - MALE BSP / MALE METRIC 60°

Description	A BSP	B Metric	REF
M1/4BSP-MM21x1.5	1/4-19	M21X1.5	MMS-HY-02487
M1/4BSP-MM22x1.5	1/4-19	M22X1.5	MMS-HY-02488
M3/8BSP-MM21x1.5	3/8-19	M21X1.5	MMS-HY-02489
M3/8BSP-MM22x1.5	3/8-19	M22X1.5	MMS-HY-02490
M1/2BSP-MM22x1.5	1/2-14	M22X1.5	MMS-HY-02491

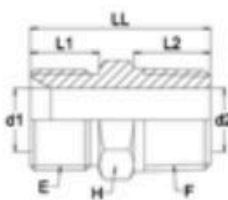
**ADAPTOR - MALE BSP 60° / MALE KOMATSU**

Description	E BSP	F KOM	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1/4BSP-MM14x1.5KOM	1/4-19	M14x1.5	11	17	37	4.7	9	19	MMS-HY-02492
M1/4BSP-MM18x1.5KOM	1/4-19	M18x1.5	11	18	38	4.7	4.7	19	MMS-HY-02493
M3/8BSP-MM18x1.5KOM	3/8-19	M18x1.5	12	18	39	7.9	7.9	22	MMS-HY-02494
M3/8BSP-MM22x1.5KOM	3/8-19	M22x1.5	12	20	41	7.9	10.5	24	MMS-HY-02495
M1/2BSP-MM20x1.5KOM	1/2-14	M20x1.5	14	20	44	11.1	9	27	MMS-HY-02496
M1/2BSP-MM22x1.5KOM	1/2-14	M22x1.5	14	20	44	10.5	10.5	27	MMS-HY-02497
M5/8BSP-MM24x1.5KOM	5/8-14	M24x1.5	16	21.5	47.5	13	13	30	MMS-HY-02498
M3/4BSP-MM30x1.5KOM	3/4-14	M30x1.5	16	26	52	16.7	16.7	32	MMS-HY-02499
M1 BSP-MM33x1.5KOM	1-11	M33x1.5	19	30	60	22.2	19	41	MMS-HY-02500



ADAPTORS TYPE BSP

ADAPTOR - MALE BSP 60° / MALE BSPT



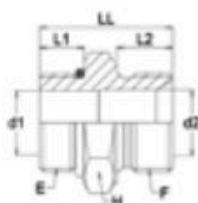
Description	E BSP	F BSPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1/8BSP-M1/8BSPT	1/8-28	1/8-28	8	10	24	3.5	3.5	12	MMS-HY-02501
M1/8BSP-M1/4BSPT	1/8-28	1/4-19	8	14	28	3.5	6	12	MMS-HY-02502
M1/8BSP-M3/8BSPT	1/8-28	3/8-19	8	12	26	3.5	7.9	12	MMS-HY-02503
M1/8BSP-M1/2BSPT	1/8-28	1/2-14	8	14.5	29	3.5	11.1	12	MMS-HY-02504
M1/8BSP-M3/4BSPT	1/8-28	3/4-14	8	20	30	3.5	16.7	12	MMS-HY-02505
M1/4BSP-M1/8BSPT	1/4-19	1/8-28	11	10	28	6	4.5	14	MMS-HY-02506
M1/4BSP-M1/4BSPT	1/4-19	1/4-19	11	14	32	6	7	14	MMS-HY-02507
M1/4BSP-M3/8BSPT	1/4-19	3/8-19	13	12	33	6	6	22	MMS-HY-02508
M1/4BSP-M1/2BSPT	1/4-19	1/2-14	13	14.5	34	6	11.1	22	MMS-HY-02509
M1/4BSP-M5/8BSPT	1/4-19	5/8-14	13	19	36	6	13	22	MMS-HY-02510
M1/4BSP-M3/4BSPT	1/4-19	3/4-14	13	20	37	6	16.7	22	MMS-HY-02511
M1/4BSP-M1 BSPT	1/4-19	1-11	13	24	38	6	22.2	17	MMS-HY-02512
M3/8BSP-M1/8BSPT	3/8-19	1/8-28	12	10	29	7.9	3.5	17	MMS-HY-02513
M3/8BSP-M1/4BSPT	3/8-19	1/4-19	12	14	33	7.9	7	17	MMS-HY-02514
M3/8BSP-M3/8BSPT	3/8-19	3/8-19	12	15	34	7.9	7.9	17	MMS-HY-02515
M3/8BSP-M1/2BSPT	3/8-19	1/2-14	12	14.5	80	7.9	14	27	MMS-HY-02516
M3/8BSP-M5/8BSPT	3/8-19	5/8-14	12	19	30	7.9	13	27	MMS-HY-02517
M3/8BSP-M3/4BSPT	3/8-19	3/4-14	12	20	31	7.9	16.7	27	MMS-HY-02518
M3/8BSP-M1 BSPT	3/8-19	1-11	12	24	33	7.9	22.2	27	MMS-HY-02519
M1/2BSP-M1/8BSPT	1/2-14	1/8-28	14	10	30	11.1	3.5	21	MMS-HY-02520
M1/2BSP-M1/4BSPT	1/2-14	1/4-19	14	14	36	11.1	7	21	MMS-HY-02521
M1/2BSP-M3/8BSPT	1/2-14	3/8-19	14	15	37	11.1	10	21	MMS-HY-02522
M1/2BSP-M1/2BSPT	1/2-14	1/2-14	14	14.5	41	11.1	11.1	22	MMS-HY-02523
M1/2BSP-M5/8BSPT	1/2-14	5/8-14	14	19	40	11.1	13	22	MMS-HY-02524
M1/2BSP-M3/4BSPT	1/2-14	3/4-14	14	20	43	11.1	16.7	22	MMS-HY-02525
M1/2BSP-M1 BSPT	1/2-14	1-11	14	24	40	11.1	22.2	24	MMS-HY-02526
M5/8BSP-M1/4BSPT	5/8-14	1/4-19	16	14	38	13	7	24	MMS-HY-02527
M5/8BSP-M3/8BSPT	5/8-14	3/8-19	16	15	39	13	10	24	MMS-HY-02528
M5/8BSP-M1/2BSPT	5/8-14	1/2-14	16	19	43	13	14	24	MMS-HY-02529
M5/8BSP-M5/8BSPT	5/8-14	5/8-14	16	19	44	13	13	24	MMS-HY-02530
M5/8BSP-M3/4BSPT	5/8-14	3/4-14	16	20	45	13	16.7	24	MMS-HY-02531
M5/8BSP-M1 BSPT	5/8-14	1-11	16	24	49	13	22.2	24	MMS-HY-02532
M3/4BSP-M1/8BSPT	3/4-14	1/8-28	16	10	36	16.7	3.5	27	MMS-HY-02533
M3/4BSP-M1/4BSPT	3/4-14	1/4-19	16	14	39	16.7	7	27	MMS-HY-02534
M3/4BSP-M3/8BSPT	3/4-14	3/8-19	16	15	40	16.7	10	27	MMS-HY-02535
M3/4BSP-M1/2BSPT	3/4-14	1/2-14	16	19	44	16.7	13	27	MMS-HY-02536
M3/4BSP-M5/8BSPT	3/4-14	5/8-14	16	19	44	16.7	14	27	MMS-HY-02537
M3/4BSP-M3/4BSPT	3/4-14	3/4-14	16	20	44	16.7	16.7	27	MMS-HY-02538
M3/4BSP-M1 BSPT	3/4-14	1-11	16	24	49	16.7	22.2	34	MMS-HY-02539
M3/4BSP-M1 1/4BSPT	3/4-14	1 1/4-11	16	25	50	16.7	28.6	34	MMS-HY-02540
M1 BSP-M1/4BSPT	1-11	1/4-19	19	14	44	22.2	7	34	MMS-HY-02541
M1 BSP-M3/8BSPT	1-11	3/8-19	19	15	45	22.2	10	34	MMS-HY-02542
M1 BSP-M1/2BSPT	1-11	1/2-14	19	19	48	22.2	13	34	MMS-HY-02543
M1 BSP-M5/8BSPT	1-11	5/8-14	19	19	48	22.2	14	34	MMS-HY-02544
M1 BSP-M3/4BSPT	1-11	3/4-14	19	20	49	22.2	18	34	MMS-HY-02545
M1 BSP-M1 BSPT	1-11	1-11	19	24	53	22.2	22.2	36	MMS-HY-02546
M1 BSP-M1 1/4BSPT	1-11	1 1/4-11	19	25	53	22.2	28.6	36	MMS-HY-02547
M1 BSP-M1 1/2BSPT	1-11	1 1/2-11	19	25	53	22.2	31	36	MMS-HY-02548
M1 BSP-M2 BSPT	1-11	2-11	19	30	54	22.2	46	36	MMS-HY-02549
M1 1/4BSP-M1/2BSPT	1 1/4-11	1/2-14	20	19	49	28.6	13	42	MMS-HY-02550
M1 1/4BSP-M3/4BSPT	1 1/4-11	3/4-14	20	20	50	28.6	18	42	MMS-HY-02551
M1 1/4BSP-M1 BSPT	1 1/4-11	1-11	20	24	54	28.6	24	42	MMS-HY-02552

ADAPTOR - MALE BSP 60° / MALE BSPT

Description	E BSP	F BSPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1 1/4BSP-M1 1/4BSPT	1 1/4-11	1 1/4-11	20	25	57	28.6	28.6	46	MMS-HY-02553
M1 1/4BSP-M1 1/2BSPT	1 1/4-11	1 1/2-11	20	19	49	28.6	13	46	MMS-HY-02554
M1 1/4BSP-M2 BSPT	1 1/4-11	2-11	20	30	54	28.6	46	46	MMS-HY-02555
M1 1/2BSP-M3/4BSPT	1 1/2-11	3/4-14	22	20	53	31	18	46	MMS-HY-02556
M1 1/2BSP-M1 BSPT	1 1/2-11	1-11	22	24	58	31	22.2	50	MMS-HY-02557
M1 1/2BSP-M1 1/4BSPT	1 1/2-11	1 1/4-11	22	25	59	31	31	50	MMS-HY-02558
M1 1/2BSP-M1 1/2BSPT	1 1/2-11	1 1/2-11	22	25	59	33.3	33.3	50	MMS-HY-02559
M1 1/2BSP-M2 BSPT	1 1/2-11	2-11	22	30	67	33.3	46	50	MMS-HY-02560
M2 BSP-M3/4BSPT	2-11	3/4-14	25	20	61	46	18	50	MMS-HY-02561
M2 BSP-M1 BSPT	2-11	1-11	25	24	64	46	22.2	60	MMS-HY-02562
M2 BSP-M1 1/4BSPT	2-11	1 1/4-11	25	25	65	46	28.6	60	MMS-HY-02563
M2 BSP-M1 1/2BSPT	2-11	1 1/2-11	25	25	65	46	38	60	MMS-HY-02564
M2 BSP-M2 BSPT	2-11	2-11	25	30	70	46	46	65	MMS-HY-02565

ADAPTOR - MALE SAE + O-RING / MALE BSP

Description	E UNF	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M3/8SAE-M1/8BSP	3/8-24	1/8-28	9.1	8	25	3.5	3.5	14	MMS-HY-02566
M7/16SAE-M1/8BSP	7/16-20	1/8-28	9.1	8	25	3.5	3.5	14	MMS-HY-02567
M1/2SAE-M1/8BSP	1/2-20	1/8-28	9.1	8	25	3.5	3.5	14	MMS-HY-02568
M9/16SAE-M1/8BSP	9/16-18	1/8-28	9.1	8	25	4.4	3.5	19	MMS-HY-02569
M3/4SAE-M1/8BSP	3/4-16	1/8-28	9.1	8	29.5	4.4	3.5	19	MMS-HY-02570
M7/16SAE-M1/4BSP	7/16-20	1/4-19	9.1	12	29.5	4.4	4.7	19	MMS-HY-02571
M1/2SAE-M1/4BSP	1/2-20	1/4-19	9.1	12	29.5	4.7	4.7	19	MMS-HY-02572
M9/16SAE-M1/4BSP	9/16-18	1/4-19	9.9	12	32	7.5	4.7	19	MMS-HY-02573
M3/4SAE-M1/4BSP	3/4-16	1/4-19	11.1	12	31	9.9	4.7	22	MMS-HY-02574
M7/8SAE-M1/4BSP	7/8-14	1/4-19	12.7	11	34.5	12.3	4.7	27	MMS-HY-02575
M9/16SAE-M3/8BSP	9/16-18	3/8-19	9.9	13.5	33.5	7.5	7.5	22	MMS-HY-02576
M3/4SAE-M3/8BSP	3/4-16	3/8-19	11.1	13.5	36	9.9	7.9	24	MMS-HY-02577
M7/8SAE-M3/8BSP	7/8-14	3/8-19	12.7	13.5	39.5	12.3	7.9	27	MMS-HY-02578
M1 1/16SAE-M3/8BSP	1 1/16-12	3/8-19	15.1	13.5	41	15.5	7.9	27	MMS-HY-02579
M9/16SAE-M1/2BSP	9/16-18	1/2-14	9.9	16	36	7.5	11.1	27	MMS-HY-02580
M3/4SAE-M1/2BSP	3/4-16	1/2-14	11.1	16	38	9.9	9.9	27	MMS-HY-02581
M7/8SAE-M1/2BSP	7/8-14	1/2-14	12.7	16	42	11.1	11.1	27	MMS-HY-02582
M1 1/16SAE-M1/2BSP	1 1/16-12	1/2-14	15.1	16	42.5	15.5	11.1	36	MMS-HY-02583
M7/8SAE-M5/8BSP	7/8-14	5/8-14	12.7	17.5	43.5	12.3	12.3	30	MMS-HY-02584
M1 1/16SAE-M3/4BSP	1 1/16-12	3/4-14	15.1	18.5	48	15.5	15.5	34	MMS-HY-02585
M1 3/16SAE-M3/4BSP	1 3/16-12	3/4-14	15.1	16	42	16.7	16.7	36	MMS-HY-02586
M1 5/16SAE-M1 BSP	1 5/16-12	1-11	15.1	20.5	52.6	21.5	21.5	41	MMS-HY-02587
M1 5/8SAE-M1 1/4BSP	1 5/8-12	1 1/4-11	15.1	20.5	54.7	27.5	27.5	50	MMS-HY-02588
M1 7/8SAE-M1 1/2BSP	1 7/8-12	1 1/2-11	15.1	23	57	33	33	55	MMS-HY-02589
M2 SAE-M2 BSP	2 1/2-12	2-11	15.1	26	60	36	36	60	MMS-HY-02590



ADAPTORS TYPE BSP

ADAPTOR - MALE ORFS / MALE BSP 60°

Description	E UNF	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M13/16ORFS-M3/8BSP	13/16	3/8	12.8	13.5	34.5	9.5	7.9	22	MMS-HY-02591
M1 ORFS-M3/8BSP	1	3/8	15.5	13.5	39	12.5	7.9	27	MMS-HY-02592
M11/16ORFS-M1/2BSP	11/16	1/2	11.2	16	37	6.5	11.1	27	MMS-HY-02593
M13/16ORFS-M1/2BSP	13/16	1/2	12.8	16	38.8	9.5	9.5	27	MMS-HY-02594
M1 ORFS-M1/2BSP	1	1/2	15.5	16	41.5	12.5	11.1	27	MMS-HY-02595
M1 3/16ORFS-M1/2BSP	1 3/16	1/2	17	16	44	15.5	11.1	32	MMS-HY-02596
M13/16ORFS-M3/4BSP	13/16	3/4	12.8	18.5	42	9.5	16.7	32	MMS-HY-02597
M1 ORFS-M3/4BSP	1	3/4	15.5	16	44.6	12.5	16.7	32	MMS-HY-02598
M1 3/16ORFS-M3/4BSP	1 3/16	3/4	17	18.5	46.5	15.5	15.5	32	MMS-HY-02599
M1 7/16ORFS-M3/4BSP	1 7/16	3/4	17.5	16	47.8	20.5	16.7	41	MMS-HY-02600
M1 3/16ORFS-M1 BSP	1 3/16	1	17	20.5	50.5	15.5	22.2	41	MMS-HY-02601
M1 7/16ORFS-M1 BSP	1 7/16	1	17.5	20.5	51	20.5	20.5	41	MMS-HY-02602
M1 7/16ORFS-M1 1/4BSP	1 7/16	1 1/4	17.5	20.5	53	20.5	28.6	50	MMS-HY-02603
M1 11/16ORFS-M1 1/4BSP	1 11/16	1 1/4	17.5	20.5	53	26	26	50	MMS-HY-02604
M2 ORFS-M1 1/2BSP	2	1 1/2	17.5	23	55.5	32	32	55	MMS-HY-02605

ADAPTOR - FEMALE ORFS / MALE BSP 60°

Description	E UNF	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H1 mm	REF
FS9/16ORFS-M1/4BSP	9/16	1/4	16	11	36	4	4	19	19	MMS-HY-02606
FS11/16ORFS-M1/4BSP	11/16	1/4	19	11	39	6.5	4.7	19	22	MMS-HY-02607
FS9/16ORFS-M3/8BSP	9/16	3/8	19	12	39	6.5	4.7	22	22	MMS-HY-02608
FS11/16ORFS-M3/8BSP	11/16	3/8	19	12	40	6.5	6.5	22	22	MMS-HY-02609
FS13/16ORFS-M3/8BSP	13/16	3/8	21	12	42	9	7.9	22	24	MMS-HY-02610
FS11/16ORFS-M1/2BSP	11/16	1/2	19	14	43	6.5	11.1	27	22	MMS-HY-02611
FS13/16ORFS-M1/2BSP	13/16	1/2	21	14	45	9	11.1	27	24	MMS-HY-02612
FS1 ORFS-M1/2BSP	1	1/2	25	14	49	11.1	11.1	27	30	MMS-HY-02613
FS1 3/16ORFS-M1/2BSP	1 3/16	1/2	25	14	50	11.1	11.1	30	30	MMS-HY-02614
FS1 ORFS-M5/8BSP	1	5/8	25	16	51	11.5	14.3	30	30	MMS-HY-02615
FS1 ORFS-M3/4BSP	1	3/4	25	16	51	11.5	16.7	32	30	MMS-HY-02616
FS1 3/16ORFS-M3/4BSP	1 3/16	3/4	26.5	16	52.5	14	16.7	32	36	MMS-HY-02617
FS1 3/16ORFS-M1 BSP	1 3/16	1	26.5	19	56.5	14	22.2	41	36	MMS-HY-02618
FS1 7/16ORFS-M1 BSP	1 7/16	1	28	19	58	20	20	41	41	MMS-HY-02619
FS1 7/16ORFS-M1 1/4BSP	1 7/16	1 1/4	28	20	61	20	28.6	50	41	MMS-HY-02620
FS1 11/16ORFS-M1/4BSP	1 11/16	1 1/4	28	20.5	67	26	30	50	50	MMS-HY-02621
FS2 ORFS-M1/2BSP	2	1 1/2	28	22	66	32	32	55	60	MMS-HY-02622

ADAPTOR - MALE BSP 60°/ FEMALE METRIC FIX

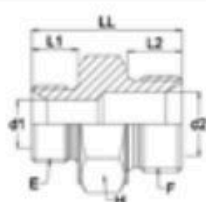
Description	E BSP	F Metric	L1 mm	LL mm	d1 mm	H mm	REF
M1/4BSP-FM16x1.5	1/4-19	M16x1.5	11	24	4.7	22	MMS-HY-02623
M3/8BSP- FM14x1.5	3/8-19	M14x1.5	12	26	7.1	22	MMS-HY-02624
M3/8BSP-FM16x1.5	3/8-19	M16x1.5	14	28.5	7.1	24	MMS-HY-02625
M3/8BSP-FM18x1.5	3/8-19	M18x1.5	15	30	7.1	24	MMS-HY-02626
M1/2BSP-FM14x1.5	1/2-14	M14x1.5	12	32	11.1	27	MMS-HY-02627
M1/2BSP-FM16x1.5	1/2-14	M16x1.5	16	34.5	11.1	27	MMS-HY-02628
M1/2BSP-FM18x1.5	1/2-14	M18x1.5	14	32.5	11.1	28	MMS-HY-02629
M1/2BSP-FM20x1.5	1/2-14	M20x1.5	15	30.5	11.1	28	MMS-HY-02630
M1/2BSP-FM22x1.5	1/2-14	M22x1.5	16	32.5	11.1	30	MMS-HY-02631
M3/4BSP-FM16x1.5	3/4-14	M16x1.5	16	26	16.7	32	MMS-HY-02632

ADAPTOR - MALE BSP 60° / FEMALE METRIC FIX

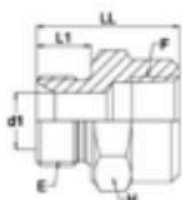
Description	E BSP	F Metric	L1 mm	LL mm	d1 mm	H mm	REF
M3/4BSP-FM18x1.5	3/4-14	M18x1.5	16.7	26	16.7	32	MMS-HY-02633

ADAPTOR - MALE BSP 60° / MALE METRIC 60°

Description	E BSP	F Metric	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1/8BSP-MM10x1	1/8-28	M10x1	10	8	24	3	3	14	MMS-HY-02634
M1/8BSP-MM12x1	1/8-28	M12x1	10	8	28	3.5	3.5	17	MMS-HY-02635
M1/8BSP-MM12x1.5	1/8-28	M12x1.5	8	10	28	3.5	3.5	17	MMS-HY-02636
M1/4BSP-MM10x1	1/4-19	M10x1	11	8	29.5	4.7	3	19	MMS-HY-02637
M1/4BSP-MM12x1	1/4-19	M12x1	11	10	32	4	4	19	MMS-HY-02638
M1/4BSP-MM12x1.5	1/4-19	M12x1.5	11	10	32	4	4	19	MMS-HY-02639
M1/4BSP-MM14x1.5	1/4-19	M14x1.5	11	12	34	4.7	6	19	MMS-HY-02640
M3/8BSP-MM14x1.5	3/8-19	M14x1.5	12	12	35	7.9	6	22	MMS-HY-02641
M1/2BSP-MM14x1.5	1/2-14	M14x1.5	14	12	38	11.1	6	27	MMS-HY-02642
M1/4BSP-MM16x1.5	1/4-19	M16x1.5	11	12	34	4.7	8	22	MMS-HY-02643
M3/8BSP-MM16x1.5	3/8-19	M16x1.5	12	12	35	7.9	7.9	22	MMS-HY-02644
M1/2BSP-MM16x1.5	1/2-14	M16x1.5	14	12	38	11.1	8	27	MMS-HY-02645
M1/4BSP-MM18x1.5	1/4-19	M18x1.5	11	12	35.5	4.7	10	24	MMS-HY-02646
M3/8BSP-MM18x1.5	3/8-19	M18x1.5	12	12	35.5	7.9	10	24	MMS-HY-02647
M1/2BSP-MM18x1.5	1/2-14	M18x1.5	14	12	38.5	10	10	27	MMS-HY-02648
M3/4BSP-MM18x1.5	3/4-14	M18x1.5	16	12	40.5	16.7	10	32	MMS-HY-02649
M1/4BSP-MM20x1.5	1/4-19	M20x1.5	11	14	35.5	4.7	10	24	MMS-HY-02650
M3/8BSP-MM20x1.5	3/8-19	M20x1.5	12	14	38.5	7.9	12	27	MMS-HY-02651
M1/2BSP-MM20x1.5	1/2-14	M20x1.5	14	14	40.5	11.1	11.1	27	MMS-HY-02652
M3/4BSP-MM20x1.5	3/4-14	M20x1.5	16	14	42.5	16.7	12	32	MMS-HY-02653
M3/8BSP-MM22x1.5	3/8-19	M22x1.5	12	14	39	7.9	14.1	27	MMS-HY-02654
M1/2BSP-MM22x1.5	1/2-14	M22x1.5	14	14	41	11.1	14.1	27	MMS-HY-02655
M5/8BSP-MM22x1.5	5/8-14	M22x1.5	16	14	43	14.1	14.1	30	MMS-HY-02656
M3/4BSP-MM22x1.5	3/4-14	M22x1.5	16	14	43	16.7	14.1	32	MMS-HY-02657
M3/8BSP-MM24x1.5	3/8-19	M24x1.5	12	14	38.5	7.9	12	27	MMS-HY-02658
M1/2BSP-MM24x1.5	1/2-14	M24x1.5	14	14	41	11.1	16	30	MMS-HY-02659
M3/4BSP-MM24x1.5	3/4-14	M24x1.5	18.5	14	44.5	16	16	32	MMS-HY-02660
M1/2BSP-MM26x1.5	1/2-14	M26x1.5	16	16	44	11.1	15	32	MMS-HY-02661
M5/8BSP-MM26x1.5	5/8-14	M26x1.5	16	16	45	14.3	14.3	32	MMS-HY-02662
M3/4BSP-MM26x1.5	3/4-14	M26x1.5	16	16	45	16.7	15	32	MMS-HY-02663
M3/4BSP-MM30x1.5	3/4-14	M30x1.5	16	16	46	16.7	19	36	MMS-HY-02664
M1 BSP-MM30x1.5	1-11	M30x1.5	19	16	49	22.2	19	41	MMS-HY-02665

**ADAPTOR - MALE BSP 60° / FEMALE NPT FIX**

Description	E BSP	F NPT	L1 mm	LL mm	d1 mm	H mm	REF
M1/8BSP-F1/8NPT	1/8-28	1/8-27	8	23	3.5	16	MMS-HY-02666
M1/8BSP-F1/4NPT	1/8-28	1/4-18	8	28	3.5	19	MMS-HY-02667
M1/4BSP-F1/4NPT	1/4-19	1/4-18	11	31	4.7	19	MMS-HY-02668
M1/4BSP-F3/8NPT	1/4-19	3/8-18	11	33	4.7	22	MMS-HY-02669
M3/8BSP-F1/8NPT	3/8-19	1/8-27	12	30	7.9	22	MMS-HY-02670
M3/8BSP-F1/4NPT	3/8-19	1/4-18	12	32	7.9	22	MMS-HY-02671
M3/8BSP-F3/8NPT	3/8-19	3/8-18	12	34	7.9	22	MMS-HY-02672
M1/2BSP-F1/4NPT	1/2-14	1/4-18	14	24	10.7	27	MMS-HY-02673
M1/2BSP-F3/8NPT	1/2-14	3/8-18	14	28	10.7	27	MMS-HY-02674



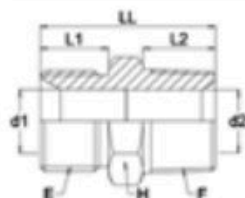
ADAPTORS TYPE BSP

ADAPTOR - MALE BSP 60° / FEMALE NPT FIX

Description	E BSP	F NPT	L1 mm	LL mm	d1 mm	H mm	REF
M1/2BSP-F1/2NPT	1/2-14	1/2-14	14	40	11.1	30	MMS-HY-02675
M1/2BSP-F3/4NPT	1/2-14	3/4-14	14	42	11.1	30	MMS-HY-02676
M3/4BSP-F1/2NPT	3/4-14	1/2-14	16	44	16.7	30	MMS-HY-02677
M3/4BSP-F3/4NPT	3/4-14	3/4-14	16	42	16.7	36	MMS-HY-02678
M1 BSP-F1 NPT	1-11	1-11.5	20.5	52	23	41	MMS-HY-02679
M1 1/4BSP-F1 1/4NPT	1 1/4-11	1 1/4-11.5	20	55	28.6	50	MMS-HY-02680

ADAPTOR - MALE BSP 60° / MALE NPT

Description	E BSP	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1/8BSP-M1/8NPT	1/8-28	1/8-27	8	9.7	23.5	3.5	3.5	12	MMS-HY-02681
M1/8BSP-M1/4NPT	1/8-28	1/4-18	8	14.2	24.6	3.5	4.5	12	MMS-HY-02682
M1/8BSP-M3/8NPT	1/8-28	3/8-18	8	14.2	25.4	3.5	4.7	12	MMS-HY-02683
M1/8BSP-M1/2NPT	1/8-28	1/2-14	8	19	26	3.5	11.1	14	MMS-HY-02684
M1/8BSP-M3/4NPT	1/8-28	3/4-14	8	19	26.5	3.5	14.3	14	MMS-HY-02685
M1/4BSP-M1/8NPT	1/4-19	1/8-27	11	9.7	27.5	4.5	3.5	14	MMS-HY-02686
M1/4BSP-M1/4NPT	1/4-19	1/4-18	11	14.2	32	4.7	4.5	14	MMS-HY-02687
M1/4BSP-M3/8NPT	1/4-19	3/8-18	11	14.2	32.2	4.7	4.7	14	MMS-HY-02688
M1/4BSP-M1/2NPT	1/4-19	1/2-14	11	19	32.8	4.7	11.1	14	MMS-HY-02689
M1/4BSP-M3/4NPT	1/4-19	3/4-14	11	19	33	4.7	14.3	16	MMS-HY-02690
M1/4BSP-M1 NPT	1/4-19	1-11.5	11	23.9	33.3	4.7	16	16	MMS-HY-02691
M3/8BSP-M1/8NPT	3/8-19	1/8-27	12	9.7	33.6	7.9	3.5	16	MMS-HY-02692
M3/8BSP-M1/4NPT	3/8-19	1/4-18	12	14.2	33.9	7.9	4.5	19	MMS-HY-02693
M3/8BSP-M3/8NPT	3/8-19	3/8-18	12	14.2	34	7.9	7.9	19	MMS-HY-02694
M3/8BSP-M1/2NPT	3/8-19	1/2-14	12	19	34.5	7.9	11.1	19	MMS-HY-02695
M3/8BSP-M3/4NPT	3/8-19	3/4-14	12	19	34.9	7.9	14.3	19	MMS-HY-02696
M3/8BSP-M1 NPT	3/8-19	1-11.5	12	23.9	35.2	7.9	16	19	MMS-HY-02697
M1/2BSP-M1/8NPT	1/2-14	1/8-27	14	9.7	35.6	11.1	4.5	21	MMS-HY-02698
M1/2BSP-M1/4NPT	1/2-14	1/4-18	17	14.2	36	11.1	6	21	MMS-HY-02699
M1/2BSP-M3/8NPT	1/2-14	3/8-18	14	14.2	36	11.1	9	21	MMS-HY-02700
M1/2BSP-M1/2NPT	1/2-14	1/2-14	14	19	41	11.1	11.1	22	MMS-HY-02701
M1/2BSP-M3/4NPT	1/2-14	3/4-14	14	19	46	11.1	14.3	24	MMS-HY-02702
M1/2BSP-M1 NPT	1/2-14	1-11.5	14	23.9	48	11.1	21.5	34	MMS-HY-02703
M1/2BSP-M1 1/4NPT	1/2-14	1 1/4-11.5	17	24.6	54	11.1	6	19	MMS-HY-02704
M5/8BSP-M1/4NPT	5/8-14	1/4-18	16	14.2	36	14.3	9	21	MMS-HY-02705
M5/8BSP-M3/8NPT	5/8-14	3/8-18	16	14.2	38	14.3	11.1	24	MMS-HY-02706
M5/8BSP-M1/2NPT	5/8-14	1/2-14	16	19	43	14.3	12	24	MMS-HY-02707
M5/8BSP-M3/4NPT	5/8-14	3/4-14	16	19	44	14.3	14.3	27	MMS-HY-02708
M5/8BSP-M1 NPT	5/8-14	1-11.5	16	23.9	48	14.3	21.5	27	MMS-HY-02709
M3/4BSP-M1/8NPT	3/4-14	1/8-27	16	9.7	35.6	16.7	4.5	27	MMS-HY-02710
M3/4BSP-M1/4NPT	3/4-14	1/4-18	16	14.2	36	16.7	6	27	MMS-HY-02711
M3/4BSP-M3/8NPT	3/4-14	3/8-18	16	14.2	39	16.7	9	27	MMS-HY-02712
M3/4BSP-M1/2NPT	3/4-14	1/2-14	16	19	41	16.7	11.1	27	MMS-HY-02713
M3/4BSP-M3/4NPT	3/4-14	3/4-14	16	19	44	16.7	16.7	27	MMS-HY-02714
M3/4BSP-M1 NPT	3/4-14	1-11.5	16	23.9	48	16.7	21.5	30	MMS-HY-02715
M3/4BSP-M1 1/4NPT	3/4-14	1 1/4-11.5	16	24.6	54	16.7	28.5	30	MMS-HY-02716
M1 BSP-M1/4NPT	1-11	1/4-18	19	14.2	36	22.2	6	30	MMS-HY-02717
M1 BSP-M3/8NPT	1-11	3/8-18	19	14.2	36	22.2	9	30	MMS-HY-02718
M1 BSP-M1/2NPT	1-11	1/2-14	19	19	41	22.2	14.3	34	MMS-HY-02719
M1 BSP-M3/4NPT	1-11	3/4-14	19	19	48	22.2	16.5	34	MMS-HY-02720
M1 BSP-M1 NPT	1-11	1-11.5	19	23.9	54	21.5	21.5	36	MMS-HY-02721



ADAPTOR - MALE BSP 60° / MALE NPT

Description	E BSP	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1 BSP-M1 1/4NPT	1-11	1 1/4-11.5	19	24.6	56.5	21.5	28.5	36	MMS-HY-02722
M1 BSP-M1 1/2NPT	1-11	1 1/2-11.5	19	25.4	57.5	21.5	35	36	MMS-HY-02723
M1 1/4BSP-M1/2NPT	1 1/4-11	1/2-14	20	19	43	28.6	14.3	42	MMS-HY-02724
M1 1/4BSP-M3/4NPT	1 1/4-11	3/4-14	20	19	44	28.6	16.5	42	MMS-HY-02725
M1 1/4BSP-M1 NPT	1 1/4-11	1-11.5	20	23.9	54	28.6	21.5	42	MMS-HY-02726
M1 1/4BSP-M1 1/4NPT	1 1/4-11	1 1/4-11.5	20	24.6	56.5	28.5	28.5	46	MMS-HY-02727
M1 1/4BSP-M1 1/2NPT	1 1/4-11	1 1/2-11.5	20	25.4	57.5	28.6	35	50	MMS-HY-02728
M1 1/2BSP-M3/4NPT	1 1/2-11	3/4-14	22	19	44	33.3	16.5	50	MMS-HY-02729
M1 1/2BSP-M1 NPT	1 1/2-11	1-11.5	22	23.9	48	33.3	21.5	50	MMS-HY-02730
M1 1/2BSP-M1 1/4NPT	1 1/2-11	1 1/4-11.5	22	24.6	57.5	33.3	28.5	50	MMS-HY-02731
M1 1/2BSP-M1 1/2NPT	1 1/2-11	1 1/2-11.5	22	25.4	59.5	33.3	33.3	50	MMS-HY-02732
M1 1/2BSP-M2 NPT	1 1/2-11	2-11.5	22	26.2	63	33.3	46	65	MMS-HY-02733
M2 BSP-M3/4NPT	2-11	3/4-14	25	19	63.5	46	16.5	55	MMS-HY-02734
M2 BSP-M1 NPT	2-11	1-11.5	25	23.9	64	46	21.5	60	MMS-HY-02735
M2 BSP-M1 1/4NPT	2-11	1 1/4-11.5	25	24.6	65	46	28.5	60	MMS-HY-02736
M2 BSP-M1 1/2NPT	2-11	1 1/2-11.5	25	25.4	65.5	46	35	60	MMS-HY-02737
M2 BSP-M2 NPT	2-11	2-11.5	25	26.2	66	46	46	65	MMS-HY-02738

ADAPTOR - MALE BSP / BRIDE SAE 3000

Description	A BSP	B SAE (mm)	REF
M1/2BSP-BR3 30.1	1/2-14	30.2	MMS-HY-02739
M3/4BSP-BR3 38.1	3/4-14	38.1	MMS-HY-02740
M1 BSP-BR3 44.5	1-11	44.5	MMS-HY-02741
M1 1/4BSP-BR3 50.8	1 1/4-11	50.8	MMS-HY-02742
M1 1/2BSP-BR3 60.3	1 1/2-11	60.3	MMS-HY-02743
M2 BSP-BR3 71.4	2-11	71.4	MMS-HY-02744

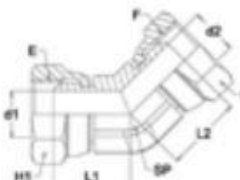
**ADAPTOR - MALE BSP / BRIDE SAE 6000**

Description	A BSP	B SAE (mm)	REF
M1/2BSP-BR6 31.8	1/2-14	31.8	MMS-HY-02745
M3/4BSP-BR6 41.4	3/4-14	41.4	MMS-HY-02746
M1 BSP-BR6 47.8	1-11	47.8	MMS-HY-02747
M1 1/4BSP-BR6 54.1	1 1/4-11	54.1	MMS-HY-02748
M1 1/2BSP-BR6 63.5	1 1/2-11	63.5	MMS-HY-02749
M2 BSP-BR6 79.5	2-11	79.5	MMS-HY-02750



ADAPTORS TYPE BSP

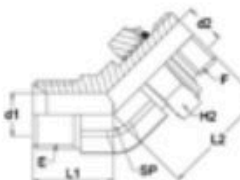
45° ADAPTOR - FEMALE SWIVEL BSP / FEMALE SWIVEL BSP

	Description	E BSP	F BSP	L1 mm	L2 mm	d1 mm	d2 mm	H1 mm	H2 mm	SP	REF
	FS1/4BSP-FS1/4BSP 45°	1/4-19	1/4-19	21	21	4.7	4.7	19	19	14	MMS-HY-02751
	FS3/8BSP-FS3/8BSP 45°	3/8-19	3/8-19	25	25	7.9	7.9	22	22	19	MMS-HY-02752
	FS1/2BSP-FS1/2BSP 45°	1/2-14	1/2-14	29	29	11.1	11.1	27	27	22	MMS-HY-02753
	FS5/8BSP-FS5/8BSP 45°	5/8-14	5/8-14	30	30	14.3	14.3	30	30	24	MMS-HY-02754
	FS3/4BSP-FS3/4BSP 45°	3/4-14	3/4-14	30	30	16.7	16.7	32	32	27	MMS-HY-02755
	FS1 BSP-FS1 BSP 45°	1-11	1-11	36.5	36.5	22.2	22.2	41	41	33	MMS-HY-02756

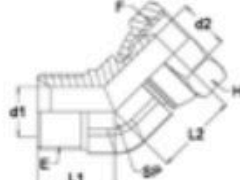
45° ADAPTOR - MALE BSP / MALE BSP

	Description	E BSP	F BSP	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
	M1/8BSP-M1/8BSP 45°	1/8-28	1/8-28	19	19	3.5	3.5	14	MMS-HY-02757
	M1/4BSP-M1/4BSP 45°	1/4-19	1/4-19	21	21	4.7	4.7	14	MMS-HY-02758
	M3/8BSP-M3/8BSP 45°	3/8-19	3/8-19	24	24	7.9	7.9	19	MMS-HY-02759
	M1/2BSP-M1/2BSP 45°	1/2-14	1/2-14	27	27	11.1	11.1	22	MMS-HY-02760
	M3/4BSP-M3/4BSP 45°	3/4-14	3/4-14	32	32	16.7	16.7	27	MMS-HY-02761
	M1 BSP-M1 BSP 45°	1-11	1-11	35	35	22.2	22.2	33	MMS-HY-02762

45° ADAPTOR - MALE BSP / ADJUSTABLE MALE BSP

	Description	E BSP	F BSP	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
	M1/4BSP-M1/4BSP OR 45°	1/4-19	1/4-19	21	32	4.7	7.5	19	14	MMS-HY-02763
	M1/4BSP-M3/8BSP OR 45°	1/4-19	3/8-19	23	34	4.7	9.9	22	19	MMS-HY-02764
	M3/8BSP-M3/8BSP OR 45°	3/8-19	3/8-19	24	34	7.9	9.9	22	19	MMS-HY-02765
	M1/2BSP-M1/2BSP OR 45°	1/2-14	1/2-14	27	41	11.1	12.3	27	22	MMS-HY-02766
	M3/4BSP-M3/4BSP OR 45°	3/4-14	3/4-14	32	44	16.7	15.5	36	27	MMS-HY-02767
	M1 BSP-M1 BSP OR 45°	1-11	1-11	35	48	22.2	21.5	41	33	MMS-HY-02768

45° ADAPTOR - MALE BSP / FEMALE SWIVEL BSP

	Description	E BSP	F BSP	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
	M1/4BSP-FS1/4BSP 45°	1/4-19	1/4-19	21	21	4.7	4.7	19	14	MMS-HY-02769
	M3/8BSP-FS3/8BSP 45°	3/8-19	3/8-19	24	25	7.9	7.9	22	19	MMS-HY-02770
	M1/2BSP-FS1/2BSP 45°	1/2-14	1/2-14	27	29	11.1	11.1	27	22	MMS-HY-02771
	M3/4BSP-FS3/4BSP 45°	3/4-14	3/4-14	32	30	16.7	16.7	32	27	MMS-HY-02772
	M1 BSP-FS1 BSP 45°	1-11	1-11	35	32	22.2	22.2	41	33	MMS-HY-02773
	M1 1/4BSP-FS 1 1/4BSP 45°	1 1/4-11	1 1/4-11	37	34	28.6	28.6	50	41	MMS-HY-02774

45° ADAPTOR - MALE BSP / FEMALE SWIVEL BSP LONG

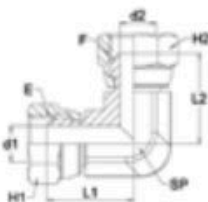

Description	E BSP	F BSP	REF
M1/4BSP-FS1/4BSP 45° long	1/4-19	1/4-19	MMS-HY-02775
M3/8BSP-FS3/8BSP 45° long	3/8-19	3/8-19	MMS-HY-02776
M1/2BSP-FS1/2BSP 45° long	1/2-14	1/2-14	MMS-HY-02777
M5/8BSP-FS5/8BSP 45° long	5/8-14	5/8-14	MMS-HY-02778
M3/4BSP-FS3/4BSP 45° long	3/4-14	3/4-14	MMS-HY-02779
M1 BSP-FS1 BSP 45° long	1-11	1-11	MMS-HY-02780
M1 1/4BSP-FS1 1/4BSP 45° long	1 1/4-11	1 1/4-11	MMS-HY-02781

45° ADAPTOR - MALE BSP / BRIDE SAE 3000


Description	A BSP	B SAE (mm)	REF
M1/2BSP-BR3 30.1 45°	1/2-14	30.1	MMS-HY-02782
M3/4BSP-BR3 38.1 45°	3/4-14	38.1	MMS-HY-02783
M1 BSP-BR3 44.5 45°	1-11	44.5	MMS-HY-02784
M1 1/4BSP-BR3 50.8 45°	1 1/4-11	50.8	MMS-HY-02785
M1 1/2BSP-BR3 60.3 45°	1 1/2-11	60.3	MMS-HY-02786
M2 BSP-BR3 71.4 45°	2-11	71.4	MMS-HY-02787

45° ADAPTOR - MALE BSP / BRIDE SAE 6000


Description	A BSP	B SAE (mm)	REF
M1/2BSP-BR6 31.8 45°	1/2-14	31.8	MMS-HY-02788
M3/4BSP-BR6 41.4 45°	3/4-14	41.4	MMS-HY-02789
M1 BSP-BR6 47.8 45°	1-11	47.8	MMS-HY-02790
M1 1/4BSP-BR6 54.1 45°	1 1/4-11	54.1	MMS-HY-02791
M1 1/2BSP-BR6 63.5 45°	1 1/2-11	63.5	MMS-HY-02792
M2 BSP-BR6 79.5 45°	2-11	79.5	MMS-HY-02793

90° ADAPTOR - FEMALE SWIVEL BSP / FEMALE SWIVEL BSP


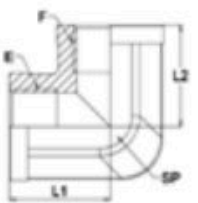
Description	E BSP	F BSP	L1 mm	L2 mm	d1 mm	d2 mm	H1 mm	H2 mm	SP	REF
FS1/8BSP-FS1/8BSP 90°	1/8-28	1/8-28	20	20	3.5	3.5	14	14	11	MMS-HY-02794
FS1/4BSP-FS1/4BSP 90°	1/4-19	1/4-19	26	26	4.7	4.7	19	19	14	MMS-HY-02795
FS3/8BSP-FS3/8BSP 90°	3/8-19	3/8-19	30	30	7.9	7.9	22	22	19	MMS-HY-02796
FS1/2BSP-FS1/2BSP 90°	1/2-14	1/2-14	35	35	11.1	11.1	27	27	22	MMS-HY-02797
FS5/8BSP-FS5/8BSP 90°	5/8-14	5/8-14	38	38	14.3	14.3	30	30	24	MMS-HY-02798
FS3/4BSP-FS3/4BSP 90°	3/4-14	3/4-14	42	42	16.7	16.7	32	32	27	MMS-HY-02799
FS1 BSP-FS1 BSP 90°	1-11	1-11	44	44	22.2	22.2	41	41	33	MMS-HY-02800

ADAPTORS TYPE BSP

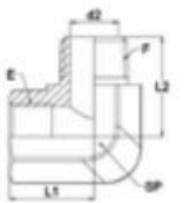
90° ADAPTOR - FEMALE SWIVEL BSP / FEMALE SWIVEL BSP LONG

	Description	E BSP	F BSP	REF
	FS1/4BSP-FS1/4BSP 90° LONG	1/4-19	1/4-19	MMS-HY-02801
	FS3/8BSP-FS3/8BSP 90° LONG	3/8-19	3/8-19	MMS-HY-02802
	FS1/2BSP-FS1/2BSP 90° LONG	1/2-14	1/2-14	MMS-HY-02803
	FS5/8BSP-FS5/8BSP 90° LONG	5/8-14	5/8-14	MMS-HY-02804
	FS3/4BSP-FS3/4BSP 90° LONG	3/4-14	3/4-14	MMS-HY-02805
	FS1 BSP-FS1 BSP 90° LONG	1-11	1-11	MMS-HY-02806
	FS1 1/4BSP-FS1 1/4BSP 90° LONG	1 1/4-11	1 1/4-11	MMS-HY-02807
	FS1 1/2BSP-FS1 1/2BSP 90° LONG	1 1/2-11	1 1/2-11	MMS-HY-02808

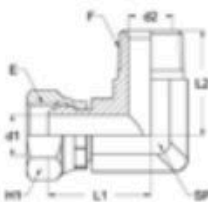
90° ADAPTOR - FEMALE BSP / FEMALE BSP

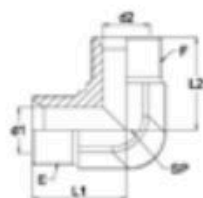
	Description	E BSP	F BSP	L1 mm	L2 mm	SP	REF
	F1/8BSP-F1/8BSP 90°	1/8-28	1/8-28	17	17	14	MMS-HY-02809
	F1/4BSP-F1/4BSP 90°	1/4-19	1/4-19	17	17	14	MMS-HY-02810
	F3/8BSP-F3/8BSP 90°	3/8-19	3/8-19	26	26	22	MMS-HY-02811
	F1/2BSP-F1/2BSP 90°	1/2-14	1/2-14	32	32	27	MMS-HY-02812
	F3/4BSP-F3/4BSP 90°	3/4-14	3/4-14	36	36	33	MMS-HY-02813
	F1 BSP-F1 BSP 90°	1-11	1-11	42	42	41	MMS-HY-02814
	F1 1/4BSP-F1 1/4BSP 90°	1 1/4-11	1 1/4-11	46	46	50	MMS-HY-02815
	F1 1/2BSP-F1 1/2BSP 90°	1 1/2-11	1 1/2-11	52	52	60	MMS-HY-02816

90° ADAPTOR - FEMALE BSP / MALE BSPT

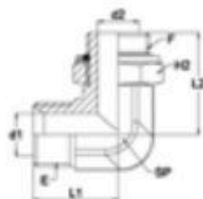
	Description	E BSP	F BSPT	L1 mm	L2 mm	d2 mm	SP	REF
	F1/4BSP-M1/4BSPT 90°	1/4-19	1/4-19	22	28	7	19	MMS-HY-02817
	F3/8BSP-M3/8BSPT 90°	3/8-19	3/8-19	26	31	10	22	MMS-HY-02818
	F1/2BSP-M1/2BSPT 90°	1/2-14	1/2-14	32	37.5	13	27	MMS-HY-02819
	F3/4BSP-M3/4BSPT 90°	3/4-14	3/4-14	36	43	18	33	MMS-HY-02820
	F1 BSP-M1 BSPT 90°	1-11	1-11	42	50	24	41	MMS-HY-02821

90° ADAPTOR - FEMALE SWIVEL BSP / MALE NPT

	Description	E BSP	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	H1 mm	SP	REF
	FS1/8BSP-M1/8NPT 90°	1/8-28	1/8-28	20	20	3.5	3.5	14	11	MMS-HY-02822
	FS1/4BSP-M1/4NPT 90°	1/4-19	1/4-19	26	26	4.7	4.7	19	14	MMS-HY-02823
	FS3/8BSP-M3/8NPT 90°	3/8-19	3/8-19	30	30	7.9	7.9	22	19	MMS-HY-02824
	FS1/2BSP-M1/2NPT 90°	1/2-14	1/2-14	35	35	11.1	11.1	27	22	MMS-HY-02825
	FS3/4BSP-M3/4NPT 90°	3/4-14	3/4-14	42	42	16.7	16.7	32	27	MMS-HY-02826
	FS1 BSP-M1 NPT 90°	1-11.5	1-11.5	44	50	20.4	21.5	41	33	MMS-HY-02827

90° ADAPTOR - MALE BSP / MALE BSP

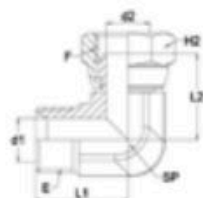
Description	E BSP	F BSP	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M1/8BSP - M1/8BSP 90°	1/8-28	1/8-28	20	20	3.5	3.5	11	MMS-HY-02828
M1/8BSP - M1/4BSP 90°	1/4-19	1/4-19	20	26	4.7	4.7	14	MMS-HY-02829
M1/4BSP - M1/4BSP 90°	1/4-19	1/4-19	26	26	4.7	4.7	14	MMS-HY-02830
M1/4BSP - M3/8BSP 90°	3/8-19	3/8-19	26	30	4.7	7.9	14	MMS-HY-02831
M3/8BSP - M3/8BSP 90°	3/8-19	3/8-19	30	30	7.9	7.9	19	MMS-HY-02832
M3/8BSP - M1/2BSP 90°	3/8-19	3/8-19	33	35	7.9	11.1	22	MMS-HY-02833
M1/2BSP - M1/2BSP 90°	1/2-14	1/2-14	35	35	11.1	11.1	22	MMS-HY-02834
M5/8BSP - M5/8BSP 90°	5/8-14	5/8-14	38	38	14.3	14.3	24	MMS-HY-02835
M3/4BSP - M3/4BSP 90°	3/4-14	3/4-14	42	42	16.7	16.7	27	MMS-HY-02836
M3/4BSP - M1 BSP 90°	1-11	1-11	42	47	16.7	22.2	27	MMS-HY-02837
M1 BSP - M1 BSP 90°	1-11	1-11	47	47	22.2	22.2	33	MMS-HY-02838
M1 1/4BSP - M1 1/4BSP 90°	1 1/4-11	1 1/4-11	52	52	28.6	28.6	41	MMS-HY-02839
M1 1/2BSP - M1 1/2BSP 90°	1 1/2-11	1 1/2-11	60	60	33.3	33.3	48	MMS-HY-02840
M2 BSP - M2 BSP 90°	2-11	2-11	70	70	46	46	65	MMS-HY-02841

90° ADAPTOR - MALE BSP / ADJUSTABLE MALE BSP

Description	E BSP	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M1/4BSP - M1/4BSP OR 90°	1/4-19	26	35	4.7	7.5	19	14	MMS-HY-02842
M1/4BSP - M3/8BSP OR 90°	1/4-19	29	36	4.7	9.9	22	19	MMS-HY-02843
M3/8BSP - M1/4BSP OR 90°	3/8-19	30	36	7.9	7.5	19	19	MMS-HY-02844
M3/8BSP - M3/8BSP OR 90°	3/8-19	30	36	7.9	9.9	22	19	MMS-HY-02845
M3/8BSP - M1/2BSP OR 90°	3/8-19	33	43	7.9	12.3	27	22	MMS-HY-02846
M1/2BSP - M3/8BSP OR 90°	1/2-14	35	36	11.1	12.3	27	22	MMS-HY-02847
M1/2BSP - M1/2BSP OR 90°	1/2-14	35	43	11.1	12.3	27	22	MMS-HY-02848
M3/4BSP - M3/4BSP OR 90°	3/4-14	42	47	16.7	15.5	36	27	MMS-HY-02849
M1 1/4BSP - M1 1/4BSP OR 90°	1-11	46	53	23	21.5	41	33	MMS-HY-02850

90° ADAPTOR - MALE BSP / MALE BSP LONG

Description	E BSP	F BSP	REF
M1/4BSP - M1/4BSP 90° LONG	1/4-19	1/4-19	MMS-HY-02851
M3/8BSP - M3/8BSP 90° LONG	3/8-19	3/8-19	MMS-HY-02852
M1/2BSP - M1/2BSP 90° LONG	1/2-14	1/2-14	MMS-HY-02853
M3/4BSP - M3/4BSP 90° LONG	3/4-14	3/4-14	MMS-HY-02854

90° ADAPTOR - MALE BSP / FEMALE SWIVEL BSP

Description	E BSP	F BSP	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M1/8BSP - FS1/8BSP 90°	1/8-28	1/8-28	20	20	3.5	3.5	14	11	MMS-HY-02855
M1/4BSP - FS1/4BSP 90°	1/4-19	1/4-19	26	26	4.7	4.7	19	14	MMS-HY-02856
M3/8BSP - FS1/4BSP 90°	3/8-19	1/4-19	30	26	7.9	4.7	20	19	MMS-HY-02857
M3/8BSP - FS3/8BSP 90°	3/8-19	3/8-19	30	30	7.9	7.9	22	19	MMS-HY-02858
M3/8BSP - FS1/2BSP 90°	3/8-16	1/2-14	30	35	7.9	11.1	24	19	MMS-HY-02859
M1/2BSP - FS3/8BSP 90°	1/2-14	3/8-19	35	30	11.1	7.9	24	22	MMS-HY-02860
M1/2BSP - FS1/2BSP 90°	1/2-14	1/2-14	35	35	11.1	11.1	27	22	MMS-HY-02861

ADAPTORS TYPE BSP

90° ADAPTOR - MALE BSP / FEMALE SWIVEL BSP

Description	E BSP	F BSP	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M1/2BSP-FS3/4BSP 90°	1/2-14	3/4-14	35	42	11.1	16.7	28	22	MMS-HY-02862
M5/8BSP-FS5/8BSP 90°	5/8-14	5/8-14	38	38	14.3	14.3	30	24	MMS-HY-02863
M3/4BSP-FS1/2BSP 90°	3/4-14	1/2-14	42	35	16.7	7.9	31	24	MMS-HY-02864
M3/4BSP-FS3/4BSP 90°	3/4-14	3/4-14	42	42	16.7	16.7	32	27	MMS-HY-02865
M3/4BSP-FS1 BSP 90°	3/4-14	1-11	42	42	16.7	16.7	32	27	MMS-HY-02866
M1 BSP-FS1 BSP 90°	1-11	1-11	42	42	16.7	16.7	32	27	MMS-HY-02867
M1 1/4BSP-FS1 1/4BSP 90°	1 1/4-11	1 1/4-11	52	49	28.6	28.6	50	41	MMS-HY-02868
M1 1/2BSP-FS1 1/2BSP 90°	1 1/2-11	1 1/2-11	60	61	33.3	33.3	55	48	MMS-HY-02869

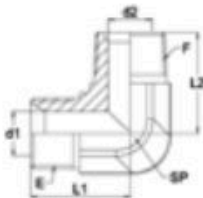
90° ADAPTOR - MALE BSP / FEMALE SWIVEL BSP LONG

Description	E BSP	F BSP	REF
M1/4BSP-FS1/4BSP 90° LONG	1/4-19	1/4-19	MMS-HY-02870
M3/8BSP-FS3/8BSP 90° LONG	3/8-19	3/8-19	MMS-HY-02871
M1/2BSP-FS1/2BSP 90° LONG	1/2-14	1/2-14	MMS-HY-02872
M5/8BSP-FS5/8BSP 90° LONG	5/8-14	5/8-14	MMS-HY-02873
M3/4BSP-FS3/4BSP 90° LONG	3/4-14	3/4-14	MMS-HY-02874
M1 BSP-FS1 BSP 90° LONG	1-11	1-11	MMS-HY-02875
M1 1/4BSP-FS1 1/4BSP 90° LONG	1 1/4-11	1 1/4-11	MMS-HY-02876



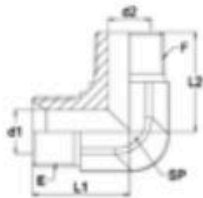
90° ADAPTOR - MALE BSP 60° / MALE NPT

Description	E BSP	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M1/4BSP-M1/4NPT 90°	1/4-19	1/4-18	26	27.7	4.7	6	14	MMS-HY-02877
M3/8BSP-M3/8NPT 90°	3/8-19	3/8-18	30	31	7.9	9	19	MMS-HY-02878
M1/2BSP-M1/2NPT 90°	1/2-14	1/2-14	35	37.3	11.1	12	22	MMS-HY-02879
M3/4BSP-M3/4NPT 90°	3/4-14	3/4-14	42	40.4	16.7	16.5	27	MMS-HY-02880



90° ADAPTOR - MALE BSP / MALE BSPT

Description	E BSP	F BSPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M1/4BSP-M1/4BSPT 90°	1/4-19	1/4-19	26	26	3.5	4.5	11	MMS-HY-02881
M3/8BSP-M3/8BSPT 90°	3/8-19	3/8-19	30	30	7.5	10	19	MMS-HY-02882
M1/2BSP-M1/2BSPT 90°	1/2-14	1/2-14	35	36	11.1	13	22	MMS-HY-02883
M1/2BSP-M1/2BSPT 90°	1/2-14	3/4-14	40	43	11.1	18	27	MMS-HY-02884
M3/4BSP-M3/4BSPT 90°	3/4-14	3/4-14	42	43	16.7	18	27	MMS-HY-02885
M1 BSP-M1 BSPT 90°	1-11	1-11	47	50	22.2	24	33	MMS-HY-02886
M1 1/4BSP-M1 1/4BSPT 90°	1 1/4-11	1 1/4-11	52	58	28.6	31	41	MMS-HY-02887

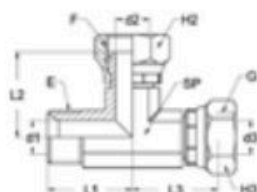


90° ADAPTOR - MALE BSP / BRIDE SAE 3000

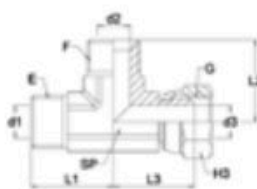
Description	A BSP	B SAE (mm)	REF
M1/2BSP-BR3 30.1 90°	1/2-14	30.1	MMS-HY-02888
M3/4BSP-BR3 38.1 90°	3/4-14	38.1	MMS-HY-02889
M1 BSP-BR3 44.5 90°	1-11	44.5	MMS-HY-02890
M1 1/4BSP-BR3 50.8 90°	1 1/4-11	50.8	MMS-HY-02891
M1 1/2BSP-BR3 60.3 90°	1 1/2-11	60.3	MMS-HY-02892
M2 BSP-BR3 71.4 90°	2-11	71.4	MMS-HY-02893

90° ADAPTOR - MALE BSP / BRIDE SAE 6000

Description	A BSP	B SAE (mm)	REF
M1/2BSP-BR6 31.8 90°	1/2-14	31.8	MMS-HY-02894
M3/4BSP-BR6 41.4 90°	3/4-14	41.4	MMS-HY-02895
M1 BSP-BR6 47.8 90°	1-11	47.8	MMS-HY-02896
M1 1/4BSP-BR6 54.1 90°	1 1/4-11	54.1	MMS-HY-02897
M1 1/2BSP-BR6 63.5 90°	1 1/2-11	63.5	MMS-HY-02898
M2 BSP-BR6 79.5 90°	2-11	79.5	MMS-HY-02899

L ADAPTOR - MALE BSP 60° / FEMALE SWIVEL BSP / FEMALE SWIVEL BSP

Description	E BSP	F BSP	G BSP	L1 mm	d1 mm	H2 mm	H3 mm	SP	REF
M1/4BSP-FS1/4BSP-FS1/4BSP	1/4-19	1/4-19	1/4-19	26	4.7	19	19	14	MMS-HY-02900
M3/8BSP-FS3/8BSP-FS3/8BSP	3/8-19	3/8-19	3/8-19	30	7.9	22	22	19	MMS-HY-02901
M1/2BSP-FS1/2BSP-FS1/2BSP	1/2-14	1/2-14	1/2-14	35	11.1	27	27	22	MMS-HY-02902
M3/4BSP-FS3/4BSP-FS3/4BSP	3/4-14	3/4-14	3/4-14	42	16.7	32	32	27	MMS-HY-02903
M1 BSP-FS1 BSP-FS1 BSP	1-11	1-11	1-11	47	22.2	41	41	33	MMS-HY-02904

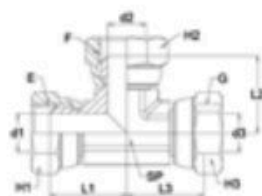
L ADAPTOR - MALE BSP 60° / MALE BSP 60° / FEMALE SWIVEL BSP

Description	E BSP	F BSP	G BSP	L1 mm	L2 mm	L3 mm	H3 mm	REF
M1/8BSP-M1/8BSP-FS1/8BSP	1/8-28	1/8-28	1/8-28	20	20	20	14	MMS-HY-02905
M1/4BSP-M1/4BSP-FS1/4BSP	1/4-19	1/4-19	1/4-19	26	26	26	19	MMS-HY-02906
M3/8BSP-M3/8BSP-FS3/8BSP	3/8-19	3/8-19	3/8-19	30	30	30	22	MMS-HY-02907
M1/2BSP-M1/2BSP-FS1/2	1/2-14	1/2-14	1/2-14	35	35	35	27	MMS-HY-02908
M5/8BSP-M5/8BSP-FS5/8BSP	5/8-14	5/8-14	5/8-14	38	38	38	30	MMS-HY-02909
M3/4BSP-M3/4BSP-FS3/4BSP	3/4-14	3/4-14	3/4-14	42	42	42	32	MMS-HY-02910
M1 BSP-M1 BSP-M1/4 BSP	1-11	1/4-19	1-11	47	47	26	36	MMS-HY-02911
M1 BSP-M1 BSP-M1 BSP	1-11	1-11	1-11	47	47	44	41	MMS-HY-02912
M1 1/4BSP-M1 1/4BSP-M1 1/4BSP	1 1/4-11	1 1/4-11	1 1/4-11	52	52	49	50	MMS-HY-02913
M1 1/2BSP-M1 1/2BSP-M1 1/2BSP	1 1/2-11	1 1/2-11	1 1/2-11	60	60	63	55	MMS-HY-02914

ADAPTORS TYPE BSP

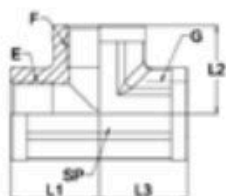
T ADAPTOR - FEMALE SWIVEL BSP / FEMALE SWIVEL BSP / FEMALE SWIVEL BSP

Description	E BSP	F BSP	G BSP	L1 mm	L2 mm	L3 mm	H mm	H1 mm	H2 mm	REF
FS1/8BSP-FS1/8BSP-FS1/8BSP	1/8-28	1/8-28	1/8-28	20	20	20	14	14	14	MMS-HY-02915
FS1/4BSP-FS1/4BSP-FS1/4BSP	1/4-19	1/4-19	1/4-19	26	26	26	19	19	19	MMS-HY-02916
FS3/8BSP-FS3/8BSP-FS3/8BSP	3/8-19	3/8-19	3/8-19	30	30	30	22	22	22	MMS-HY-02917
FS1/2BSP-FS1/2BSP-FS1/2BSP	1/2-14	1/2-14	1/2-14	35	35	35	27	27	27	MMS-HY-02918
FS5/8BSP-FS5/8BSP-FS5/8BSP	5/8-14	5/8-14	5/8-14	38	38	38	30	30	30	MMS-HY-02919
FS3/4BSP-FS3/4BSP-FS3/4BSP	3/4-14	3/4-14	3/4-14	42	42	42	32	32	32	MMS-HY-02920
FS1 BSP-FS1 BSP-FS1 BSP	1-11	1-11	1-11	44	44	44	41	41	41	MMS-HY-02921
FS1 1/4BSP-FS1 1/4BSP-FS1 1/4BSP	1 1/4-11	1 1/4-11	1 1/4-11	49	49	49	50	50	50	MMS-HY-02922
FS1 1/2BSP-FS1 1/2BSP-FS1 1/2BSP	1 1/2-11	1 1/2-11	1 1/2-11	61	61	61	55	55	55	MMS-HY-02923



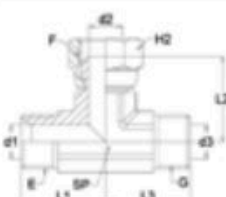
T ADAPTOR - FEMALE BSP / FEMALE BSP / FEMALE BSP

Description	E BSP	F BSP	G BSP	L1 mm	L2 mm	L3 mm	SP	REF
F1/8BSP-F1/8BSP-F1/8BSP	1/8-28	1/8-28	1/8-28	17	17	17	14	MMS-HY-02924
F1/4BSP-F1/4BSP-F1/4BSP	1/4-19	1/4-19	1/4-19	22	22	22	19	MMS-HY-02925
F3/8BSP-F3/8BSP-F3/8BSP	3/8-19	3/8-19	3/8-19	26	26	26	22	MMS-HY-02926
F1/2BSP-F1/2BSP-F1/2BSP	1/2-14	1/2-14	1/2-14	32	32	32	27	MMS-HY-02927
F5/8BSP-F5/8BSP-F5/8BSP	5/8-14	5/8-14	5/8-14	33	33	33	30	MMS-HY-02928
F3/4BSP-F3/4BSP-F3/4BSP	3/4-14	3/4-14	3/4-14	36	36	36	33	MMS-HY-02929
F1 BSP-F1 BSP-F1 8BSP	1-11	1-11	1-11	42	42	42	41	MMS-HY-02930
F1 1/4BSP-F1 1/4BSP-F1 1/4BSP	1 1/4-11	1 1/4-11	1 1/4-11	52	52	52	50	MMS-HY-02931
F1 1/2BSP-F1 1/2BSP-F1 1/2BSP	1 1/2-11	1 1/2-11	1 1/2-11	60	60	60	60	MMS-HY-02932
F2 BSP-F2 BSP-F2 8BSP	2-11	2-11	2-11	60	60	60	70	MMS-HY-02933



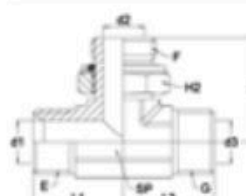
T ADAPTOR - MALE BSP 60° / FEMALE SWIVEL BSP / MALE BSP 60°

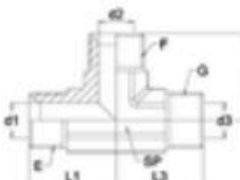
Description	E BSP	F BSP	G BSP	L1 mm	L2 mm	L3 mm	H2 mm	SP	REF
M1/8BSP-FS1/8BSP-M1/8BSP	1/8-28	1/8-28	1/8-28	20	20	20	14	11	MMS-HY-02934
M1/4BSP-FS1/4BSP-M1/4BSP	1/4-19	1/4-19	1/4-19	26	26	26	19	14	MMS-HY-02935
M3/8BSP-FS3/8BSP-M3/8BSP	3/8-19	3/8-19	3/8-19	30	30	30	22	19	MMS-HY-02936
M1/2BSP-FS1/2BSP-M1/2BSP	1/2-14	1/2-14	1/2-14	35	35	35	27	22	MMS-HY-02937
M5/8BSP-FS5/8BSP-M5/8BSP	5/8-14	5/8-14	5/8-14	38	38	38	30	24	MMS-HY-02938
M3/4BSP-FS3/4BSP-M3/4BSP	3/4-14	3/4-14	3/4-14	42	44	42	32	27	MMS-HY-02939
M1 BSP-FS1 BSP-M1 BSP	1-11	1-11	1-11	47	49	47	41	33	MMS-HY-02940



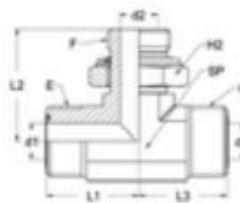
T ADAPTOR - MALE BSP / ADJUSTABLE MALE BSP / MALE BSP

Description	E BSP	F BSP	G BSP	L1 mm	L2 mm	L3 mm	H2 mm	SP	REF
M1/8BSP-M1/8BSP OR-M1/8BSP	1/8-28	1/8-28	1/8-28	20	26	20	14	11	MMS-HY-02941
M1/4BSP-M1/4BSP OR-M1/4BSP	1/4-19	1/4-19	1/4-19	26	35	26	19	14	MMS-HY-02942
M3/8BSP-M3/8BSP OR-M3/8BSP	3/8-19	3/8-19	3/8-19	30	36	30	22	19	MMS-HY-02943
M1/2BSP-M1/2BSP OR-M1/2BSP	1/2-14	1/2-14	1/2-14	35	43	35	27	22	MMS-HY-02944
M3/4BSP-M3/4BSP OR-M3/4BSP	3/4-14	3/4-14	3/4-14	42	47	42	36	27	MMS-HY-02945
M1 BSP-M1 BSP OR-M1 BSP	1-11	1-11	1-11	47	54	47	41	33	MMS-HY-02946



T ADAPTOR - MALE BSP 60° / MALE BSP 60° / MALE BSP 60°


Description	E BSP	F BSP	G BSP	L1 mm	L2 mm	L3 mm	SP	REF
M1/8BSP-M1/8BSP-M1/8BSP	1/8-28	1/8-28	1/8-28	20	20	20	11	MMS-HY-02947
M1/4BSP-M1/4BSP-M1/4BSP	1/4-19	1/4-19	1/4-19	26	26	26	14	MMS-HY-02948
M3/8BSP-M3/8BSP-M3/8BSP	3/8-19	3/8-19	3/8-19	30	30	30	19	MMS-HY-02949
M1/2BSP-M1/2BSP-M3/8BSP	1/2-14	1/2-14	3/8-19	35	35	33	22	MMS-HY-02950
M1/2BSP-M1/2BSP-M1/2BSP	1/2-14	1/2-14	1/2-14	35	35	35	22	MMS-HY-02951
M5/8BSP-M5/8BSP-M5/8BSP	5/8-14	5/8-14	5/8-14	38	38	38	24	MMS-HY-02952
M3/4BSP-M3/4BSP-M3/4BSP	3/4-14	3/4-14	3/4-14	42	42	42	27	MMS-HY-02953
M1 BSP-M1BSP-M1/4BSP	1-11	1/4-19	1-11	47	47	26	36	MMS-HY-02954
M1 BSP-M1BSP-M3/4 BSP	1-11	1-11	3/4-14	47	47	44	33	MMS-HY-02955
M1 BSP-M1 BSP-M1 BSP	1-11	1-11	1-11	47	47	47	33	MMS-HY-02956
M1 1/4BSP-M1 1/4BSP-M1 1/4BSP	1 1/4-11	1 1/4-11	1 1/4-11	52	52	52	41	MMS-HY-02957
M1 1/2BSP-M1 1/2BSP-M1 1/2BSP	1 1/2-11	1 1/2-11	1 1/2-11	60	60	60	48	MMS-HY-02958
M2 BSP-M2 BSP-M2 BSP	2-11	2-11	2-11	70	70	70	65	MMS-HY-02959

T ADAPTOR - MALE ORFS / ADJUSTABLE MALE BSP / MALE ORFS


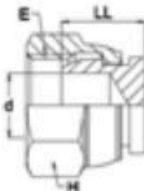
Description	E ORFS	F BSP	G ORFS	L1 mm	L2 mm	L3 mm	H2 mm	SP	REF
M9/16ORFS-M1/8BSP OR-M9/16ORFS	9/16-18	1/8-28	9/16-18	22.5	26.5	22.5	14	14	MMS-HY-02960
M9/16ORFS-M1/4BSP OR-M9/16ORFS	9/16-18	1/4-19	9/16-18	22.5	32	22.5	19	14	MMS-HY-02961
M11/16ORFS-M1/4BSP OR-M11/16ORFS	11/16-16	1/4-19	11/16-16	26	32	26	19	19	MMS-HY-02962
M11/16ORFS-M3/8BSP OR-M11/16ORFS	11/16-16	3/8-19	11/16-16	26	37	26	22	19	MMS-HY-02963
M13/16ORFS-M3/8BSP OR-M13/16ORFS	13/16-16	3/8-19	13/16-16	29	37	29	22	19	MMS-HY-02964
M13/16ORFS-M1/2BSP OR-M13/16ORFS	13/16-16	1/2-14	13/16-16	29	43	29	27	22	MMS-HY-02965
M1 ORFS-M1/2BSP OR-M1 ORFS	1-14	1/2-14	1-14	34.5	43	34.5	27	27	MMS-HY-02966
M1 ORFS-M3/4BSP OR-M1 ORFS	1-14	3/4-14	1-14	34.5	49.5	34.5	36	27	MMS-HY-02967
M1 3/16ORFS-M3/4BSP OR-M1 3/16ORFS	1 3/16-12	3/4-14	1 3/16-12	38.5	49.5	38.5	36	30	MMS-HY-02968
M1 7/16ORFS-M1 BSP OR-M1 7/16ORFS	1 7/16-12	1-11	1 7/16-12	42.5	52	42.5	41	36	MMS-HY-02969
M1 11/16ORFS-M1 1/4BSP OR-M1 11/16ORFS	1 11/16-12	1 1/4-11	1 11/16-12	45.5	57	45.5	50	41	MMS-HY-02970
M2 ORFS-M1 1/2BSP OR-M2 ORFS	2-12	1 1/2-11	2-12	49.5	60.5	49.5	55	48	MMS-HY-02971

NUT - BSP BULKHEAD

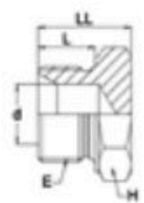

Description	E BSP	L mm	H mm	REF
NUT 1/8BSP BL	1/8-28	5.5	14	MMS-HY-02972
NUT 1/4BSP BL	1/4-19	6.5	19	MMS-HY-02973
NUT 3/8BSP BL	3/8-19	7	22	MMS-HY-02974
NUT 1/2BSP BL	1/2-14	9	27	MMS-HY-02975
NUT 5/8BSP BL	5/8-14	9	30	MMS-HY-02976
NUT 3/4BSP BL	3/4-14	10.5	32	MMS-HY-02977
NUT 1BSP BL	1-11	10.5	41	MMS-HY-02978
NUT 1 1/4BSP BL	1 1/4-11	10.5	50	MMS-HY-02979
NUT 1 1/2BSP BL	1 1/2-11	10.5	55	MMS-HY-02980
NUT 2BSP BL	2-11	10.5	70	MMS-HY-02981

ADAPTORS TYPE BSP

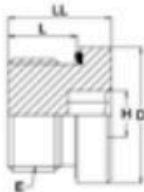
PLUG - FEMALE BSP

	Description	E BSP	LL mm	D mm	H mm	REF
	BF1/8BSP	1/8-28	12	3.5	14	MMS-HY-02982
	BF1/4BSP	1/4-19	13.5	4.7	19	MMS-HY-02983
	BF3/8BSP	3/8-19	15.5	7.9	22	MMS-HY-02984
	BF1/2BSP	1/2-14	19	11.1	27	MMS-HY-02985
	BF5/8BSP	5/8-14	18.5	14.3	30	MMS-HY-02986
	BF3/4BSP	3/4-14	22	16.7	32	MMS-HY-02987
	BF1 BSP	1-11	23.5	22.2	41	MMS-HY-02988
	BF1 1/4BSP	1 1/4-11	26.5	28.6	50	MMS-HY-02989
	BF1 1/2BSP	1 1/2-11	28	33.3	55	MMS-HY-02990
	BF2 BSP	2-11	29	46	70	MMS-HY-02991

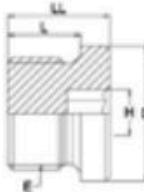
PLUG - MALE BSP

	Description	E BSP	L mm	LL mm	D mm	H mm	REF
	BM1/8BSP HEX	1/8-28	8	16	3.5	14	MMS-HY-02992
	BM1/4BSP HEX	1/4-19	11	20	4.7	19	MMS-HY-02993
	BM3/8BSP HEX	3/8-19	12	21	7.9	22	MMS-HY-02994
	BM1/2BSP HEX	1/2-14	14	24	11.1	29	MMS-HY-02995
	BM5/8BSP HEX	5/8-14	16	26	14.3	30	MMS-HY-02996
	BM3/4BSP HEX	3/4-14	16	26	16.7	32	MMS-HY-02997
	BM1 BSP HEX	1-11	19	30	22.2	41	MMS-HY-02998
	BM1 1/4BSP HEX	1 1/4-11	20	33	28.6	50	MMS-HY-02999
	BM1 1/2BSP HEX	1 1/2-11	22	38	33.3	55	MMS-HY-03000
	BM2 BSP HEX	2-11	25	44	46	70	MMS-HY-03001

PLUG - MALE BSP COUNTERSUNK HEXAGON + O-RING

	Description	E BSP	L mm	LL mm	D mm	H mm	REF
	BM1/8BSP ED UMB	1/8-28	8	12.3	14	5	MMS-HY-03002
	BM1/4BSP ED UMB	1/4-19	12	17.3	19	6	MMS-HY-03003
	BM3/8BSP ED UMB	3/8-19	12	17.3	22	8	MMS-HY-03004
	BM1/2BSP ED UMB	1/2-14	14	19.3	27	10	MMS-HY-03005
	BM3/4BSP ED UMB	3/4-14	16	21.3	32	12	MMS-HY-03006
	BM1 BSP ED UMB	1-11	16	22.8	40	17	MMS-HY-03007
	BM1 1/4BSP ED UMB	1 1/4-11	20	22.8	50	22	MMS-HY-03008
	BM1 1/2BSP ED UMB	1 1/2-11	22	22.8	55	24	MMS-HY-03009

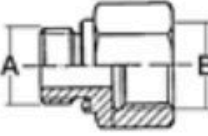
PLUG - MALE BSP COUNTERSUNK HEXAGON

	Description	E BSP	L mm	LL mm	D mm	H mm	REF
	BM1/8BSP UMB	1/8-28	8	11	14	5	MMS-HY-03010
	BM1/4BSP UMB	1/4-19	12	15	18	6	MMS-HY-03011
	BM3/8BSP UMB	3/8-19	12	15	22	8	MMS-HY-03012
	BM1/2BSP UMB	1/2-14	14	18	26	10	MMS-HY-03013
	BM3/4BSP UMB	3/4-14	16	20	32	12	MMS-HY-03014
	BM1 BSP UMB	1-11	16	21	39	17	MMS-HY-03015
	BM1 1/4BSP UMB	1 1/4-11	16	21	49	22	MMS-HY-03016
	BM1 1/2BSP UMB	1 1/2-11	16	21.5	55	24	MMS-HY-03017
	BM2 BSP UMB	2-11	19.5	24.5	67.5	32	MMS-HY-03018

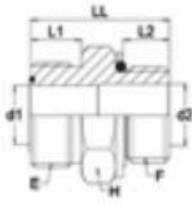
NOTES

ADAPTORS TYPE GAS

ADAPTOR - MALE BSP CAPTIVE SEAL / FEMALE BSP

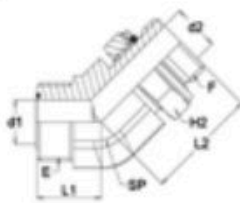
	Description	A GAS	B BSP	REF
	M1/8BSP ED-F1/4BSP	1/8-28	1/4-19	MMS-HY-03019
	M1/8BSP ED-F3/8BSP	1/8-28	3/8-19	MMS-HY-03020
	M1/4BSP ED-F1/8BSP	1/4-19	1/8-28	MMS-HY-03021
	M1/4BSP ED-F3/8BSP	1/4-19	3/8-19	MMS-HY-03022
	M1/4BSP ED-F1/2BSP	1/4-19	1/2-14	MMS-HY-03023
	M1/4BSP ED-F3/4BSP	1/4-19	3/4-14	MMS-HY-03024
	M3/8BSP ED-F1/8BSP	3/8-19	1/8-28	MMS-HY-03025
	M3/8BSP ED-F1/4BSP	3/8-19	1/4-19	MMS-HY-03026
	M3/8BSP ED-F1/2BSP	3/8-19	1/2-14	MMS-HY-03027
	M3/8BSP ED-F3/4BSP	3/8-19	3/4-14	MMS-HY-03028
	M1/2BSP ED-F1/8BSP	1/2-14	1/8-28	MMS-HY-03029
	M1/2BSP ED-F1/4BSP	1/2-14	1/4-19	MMS-HY-03030
	M1/2BSP ED-F3/8BSP	1/2-14	3/8-19	MMS-HY-03031
	M1/2BSP ED-F3/4BSP	1/2-14	3/4-14	MMS-HY-03032
	M1/2BSP ED-F1 1/4BSP	1/2-14	1-11	MMS-HY-03033
	M1/2BSP ED-F1 BSP	1/2-14	1 1/4-11	MMS-HY-03034
	M3/4BSP ED-F1/4BSP	3/4-14	1/4-19	MMS-HY-03035
	M3/4BSP ED-F3/8BSP	3/4-14	3/8-19	MMS-HY-03036
	M3/4BSP ED-F1/2BSP	3/4-14	1/2-14	MMS-HY-03037
	M3/4BSP ED-F1 BSP	3/4-14	1-11	MMS-HY-03038
	M3/4BSP ED-F1 1/4BSP	3/4-14	1 1/4-11	MMS-HY-03039
	M3/4BSP ED-F1 1/2BSP	3/4-14	1 1/2-11	MMS-HY-03040
	M1 BSP ED-F1/4BSP	1-11	1/4-19	MMS-HY-03041
	M1 BSP ED-F1/2BSP	1-11	3/8-19	MMS-HY-03042
	M1 BSP ED-F1/2BSP	1-11	1/2-14	MMS-HY-03043
	M1 BSP ED-F3/4BSP	1-11	3/4-14	MMS-HY-03044
	M1 BSP ED-F1 1/4BSP	1-11	1 1/4-11	MMS-HY-03045
	M1 BSP ED-F1 1/2BSP	1-11	1 1/2-11	MMS-HY-03046
	M1 1/4BSP ED-F1/2BSP	1 1/4-11	1/2-14	MMS-HY-03047
	M1 1/4BSP ED-F3/4BSP	1 1/4-11	3/4-14	MMS-HY-03048
	M1 1/4BSP ED-F1 BSP	1 1/4-11	1-11	MMS-HY-03049
	M1 1/4BSP ED-F1 1/2BSP	1 1/4-11	1 1/2-11	MMS-HY-03050
	M1 1/2BSP ED-F1/2BSP	1 1/2-11	1/2-14	MMS-HY-03051
	M1 1/2BSP ED-F3/4BSP	1 1/2-11	3/4-14	MMS-HY-03052
	M1 1/2BSP ED-F1 BSP	1 1/2-11	1-11	MMS-HY-03053
	M1 1/2BSP ED-F1 1/4BSP	1 1/2-11	1 1/4-11	MMS-HY-03054

ADAPTOR - MALE ORFS / MALE BSP + RETAINING RING

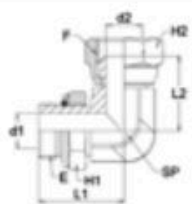
	Description	E ORFS	F GAS	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
	M9/16ORFS-M1/8BSP	9/16-18	1/8-28	9.8	7.6	25.4	4.5	4.5	17	MMS-HY-03055
	M9/16ORFS-M1/4BSP	9/16-18	1/4-19	9.8	11.2	29.7	4.5	4.5	19	MMS-HY-03056
	M9/16ORFS-M3/8BSP	9/16-18	3/8-19	9.8	11.2	30.8	4.5	8	22	MMS-HY-03057
	M9/16ORFS-M1/2BSP	9/16-18	1/2-14	9.8	11.2	31	6	12	30	MMS-HY-03058
	M11/16ORFS-M1/4BSP	11/16-16	1/4-19	11.2	11.2	31.1	6.5	5	19	MMS-HY-03059
	M11/16ORFS-M3/8BSP	11/16-16	3/8-19	11.2	11.2	32.2	6.5	8	22	MMS-HY-03060
	M11/16ORFS-M1/2BSP	11/16-16	1/2-14	11.2	14.5	38.8	6.5	12	30	MMS-HY-03061
	M13/16ORFS-M3/8BSP	13/16-16	3/8-19	12.8	11.2	33.8	9.5	8	22	MMS-HY-03062
	M13/16ORFS-M1/2BSP	13/16-16	1/2-14	12.8	14.5	40.4	9.8	12	30	MMS-HY-03063
	M13/16ORFS-M3/4BSP	13/16-16	3/4-14	12.8	14.5	41.1	11.1	12	30	MMS-HY-03064
	M1 ORFS-M1/2BSP	1-14	1/2-14	15.5	14.5	43.1	12.5	12.5	30	MMS-HY-03065

ADAPTOR - MALE ORFS / MALE BSP + RETAINING RING

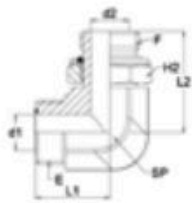
Description	E ORFS	F GAS	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1 ORFS-M3/4BSP	1-14	3/4-14	15.5	14.5	43.5	14.3	14.3	36	MMS-HY-03066
M1 3/16ORFS-M1/2BSP	1 3/16-12	1/2-14	17	14.5	45	15	15	36	MMS-HY-03067
M1 3/16ORFS-M3/4BSP	1 3/16-12	3/4-14	17	14.5	45.5	15.5	15.5	36	MMS-HY-03068
M1 3/16ORFS-M1 BSP	1 3/16-12	1-11	17.3	15.7	46.8	15.5	20	41	MMS-HY-03069
M1 7/16ORFS-M3/4BSP	1 7/16-12	3/4-14	17.5	15.7	48	16.5	16.5	41	MMS-HY-03070
M1 7/16ORFS-M1 BSP	1 7/16-12	1-11	17.5	15.7	48	16.5	16.5	41	MMS-HY-03071
M1 7/16ORFS-M1 1/4BSP	1 7/16-12	1 1/2-11	17.5	18.6	48	17.5	17.5	41	MMS-HY-03072
M1 11/16ORFS-M1 BSP	1 11/16-12	1-11	17.5	18.6	50.4	20	20	41	MMS-HY-03073
M1 11/16ORFS-M1 1/4BSP	1 11/16-12	1 1/4-11	17.5	18.6	52.4	25	25	50	MMS-HY-03074
M2 ORFS-M1 1/2BSP	2-12	1 1/2-11	17.5	18.6	54.2	32	32	55	MMS-HY-03075

45° ADAPTOR - MALE ORFS / ADJUSTABLE MALE BSP


Description	E UNF	F GAS	L1 mm	L2 mm	LL mm	d2 mm	H2 mm	SP	REF
M9/16ORFS-M1/8BSP OR 45°	9/16-18	1/8	18.3	24.8	4.3	4.4	14	14	MMS-HY-03076
M9/16ORFS-M1/4BSP OR 45°	9/16-18	1/4	18.3	27	4.3	5.9	19	14	MMS-HY-03077
M11/16ORFS-M1/4BSP OR 45°	11/16-16	1/4	20.5	28	6.7	5.9	19	19	MMS-HY-03078
M11/16 ORFS-M3/8BSP OR 45°	11/16-16	3/8	20.5	31	6.5	9.9	22	19	MMS-HY-03079
M11/16 ORFS-M1/2BSP OR 45°	11/16-16	1/2	18.8	38.5	6.5	12	27	22	MMS-HY-03080
M13/16ORFS-M3/8BSP OR 45°	13/16-16	3/8	24	32	9.8	9.8	22	22	MMS-HY-03081
M1 ORFS-M1/2BSP OR 45°	1-14	1/2	23.4	38.5	12.5	12.5	27	27	MMS-HY-03082
M1 ORFS-M3/4BSP OR 45°	1-14	3/4	28	42	12	12	32	27	MMS-HY-03083
M1 3/16ORFS-M3/4BSP OR 45°	1 3/16-12	3/4	30.7	42.5	15.5	15.5	32	30	MMS-HY-03084
M1 3/16ORFS-M1 BSP OR 45°	1 3/16-12	1	31.5	44	15.5	15.5	41	33	MMS-HY-03085
M1 7/16ORFS-M1 BSP OR 45°	1 7/16-12	1	33	44.5	20.5	20.5	41	36	MMS-HY-03086
M1 11/16ORFS-M1 1/4BSP OR 45°	1 11/16-12	1 1/4	35.5	47.5	26	26	50	41	MMS-HY-03087
M2 ORFS-M1 1/2BSP OR 45°	2-12	1 1/2	37	53.5	32	32	60	47.5	MMS-HY-03088

90° ADAPTOR - ADJUSTABLE MALE BSP / FEMALE SWIVEL BSP


Description	E GAS	F BSP	L1 mm	L2 mm	d1 mm	d2 mm	H1 mm	H2 mm	SP	REF
M1/4BSP OR-FS1/4BSP	1/4-19	1/4-19	31.5	23	7.5	4.7	19	19	14	MMS-HY-03089
M3/8BSP OR-FS3/8BSP	3/8-19	3/8-19	35.8	26	9.9	7.9	19	19	16	MMS-HY-03090
M1/2BSP OR-FS1/2BSP	1/2-14	1/2-14	43.2	31.5	12.3	11.1	27	27	22	MMS-HY-03091
M3/4BSP OR-FS3/4BSP	3/4-14	3/4-14	49.3	40.3	15.5	16.7	32	32	27	MMS-HY-03092
M1 BSP OR-FS1 BSP	1-11	1-11	53	44.5	21.5	22.2	41	41	33	MMS-HY-03093

90° ADAPTOR - MALE ORFS / ADJUSTABLE MALE BSP


Description	E UNF	F GAS	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M9/16ORFS-M1/8BSP OR 90°	9/16-18	1/8	21.5	26.5	4.5	4.4	14	14	MMS-HY-03094
M9/16ORFS-M1/4BSP OR 90°	9/16-18	1/4	21.5	32	4.5	5	19	14	MMS-HY-03095
M9/16ORFS-M3/8BSP OR 90°	9/16-18	3/8	24.7	37	4.5	8	22	19	MMS-HY-03096
M11/16ORFS-M1/4BSP OR 90°	11/16-16	1/4	25	37	6.5	5	19	19	MMS-HY-03097
M11/16ORFS-M3/8BSP OR 90°	11/16-16	3/8	26.5	37	6.5	8	22	19	MMS-HY-03098
M11/16ORFS-M1/2BSP OR 90°	11/16-16	1/2	29.2	43	6.5	12.3	27	22	MMS-HY-03099
M13/16ORFS-M1/4BSP OR 90°	13/16-16	1/4	28	37	9.5	5	19	19	MMS-HY-03100

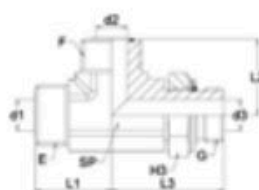
ADAPTORS TYPE GAS

90° ADAPTOR - MALE ORFS / ADJUSTABLE MALE BSP

Description	E UNF	F GAS	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M13/16ORFS-M3/8BSP OR 90°	13/16-16	3/8	28	37	9.5	8	22	19	MMS-HY-03101
M13/16ORFS-M1/2BSP OR 90°	13/16-16	1/2	30.8	43	9.5	8	27	22	MMS-HY-03102
M1 ORFS-M3/8BSP OR 90°	1-14	3/8	33.3	43	12.5	8	22	27	MMS-HY-03103
M1 ORFS-M1/2BSP OR 90°	1-14	1/2	33.3	49.5	12.5	12	27	27	MMS-HY-03104
M1 ORFS-M3/4BSP OR 90°	1-14	3/4	35.8	49.5	12.5	16	36	27	MMS-HY-03105
M1 3/16ORFS-M1/2BSP OR 90°	1 3/16-12	1/2	37.3	49.5	15.5	12	27	30	MMS-HY-03106
M1 3/16ORFS-M3/4BSP OR 90°	1 3/16-12	3/4	37.3	49.5	15.5	16	36	30	MMS-HY-03107
M1 3/16ORFS-M1 BSP OR 90°	1 3/16-12	1	41.2	52	15.5	20	41	33	MMS-HY-03108
M1 7/16ORFS-M3/4BSP OR 90°	1 7/16-12	3/4	41.7	52.5	20.5	16	36	36	MMS-HY-03109
M1 7/16ORFS-M1 BSP OR 90°	1 7/16-12	1	41.7	57	20.5	20	41	36	MMS-HY-03110
M1 7/16ORFS-M1 1/4BSP OR 90°	1 7/16-12	1 1/4	44.7	57	20.5	25	50	41	MMS-HY-03111
M1 11/16ORFS-M1 BSP OR 90°	1 11/16-12	1	44.7	57	26	20	41	41	MMS-HY-03112
M1 11/16ORFS-M1 1/4BSP OR 90°	1 11/16-12	1 1/4	44.7	57	26	25	50	41	MMS-HY-03113
M1 11/16ORFS-M1 1/2BSP OR 90°	1 11/16-12	1 1/2	48.8	60.5	26	32	55	48	MMS-HY-03114
M2ORFS-M1 1/2BSP OR 90°	2-12	1 1/2	48.8	60.5	32	32	55	48	MMS-HY-03115

L ADAPTOR - MALE ORFS / MALE ORFS / ADJUSTABLE MALE BSP

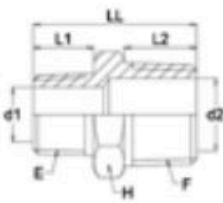
Description	E ORFS	F ORFS	G BSP	L1 mm	L2 mm	L3 mm	H3 mm	SP	REF
M9/16ORFS-M9/16ORFS-M1/8BSP OR	9/16-18	9/16-18	1/8	21.5	21.5	30	14	15	MMS-HY-03116
M9/16ORFS-M9/16ORFS-M1/4BSP OR	9/16-18	9/16-18	1/4	23	23	31.5	19	14	MMS-HY-03117
M11/16ORFS-M11/16ORFS-M1/4BSP OR	11/16-16	11/16-16	1/4	27	27	33.5	19	20	MMS-HY-03118
M11/16ORFS-M11/16ORFS-M3/8BSP OR	11/16-16	11/16-16	3/8	27.5	27.5	36.8	22	19	MMS-HY-03119
M13/16ORFS-M13/16ORFS-M3/8BSP OR	13/16-16	13/16-16	3/8	31	31	39.5	22	22	MMS-HY-03120
M13/16ORFS-M13/16ORFS-M1/2BSP OR	13/16-16	13/16-16	1/2	31	31	43.2	27	22	MMS-HY-03121
M1 ORFS-M1 ORFS-M1/2BSP OR	1-14	1-14	1/2	33.5	33.5	48	27	28	MMS-HY-03122
M1 ORFS-M1 ORFS-M3/4BSP OR	1-14	1-14	3/4	36.5	36.5	49.3	32	28	MMS-HY-03123
M1 3/16ORFS-M1 3/16ORFS-M3/4BSP OR	1 3/16-12	1 3/16-12	3/4	37.3	37.3	49.5	36	30	MMS-HY-03124
M1 3/16ORFS-M1 3/16ORFS-M1 BSP OR	1 3/16-12	1 3/16-12	1	37.3	37.3	52	41	33	MMS-HY-03125
M1 7/16ORFS-M1 7/16ORFS-M1 BSP OR	1 7/16-12	1 7/16-12	1	48	48	58	41	36	MMS-HY-03126
M1 11/16ORFS-M1 11/16ORFS-M1 1/4BSP OR	1 11/16-12	1 11/16-12	1 1/4	44.7	44.7	57	50	41	MMS-HY-03127
M2 ORFS-M2 ORFS-M1 1/2BSP OR	2-12	2-12	1 1/2	49	49	64.5	60	48	MMS-HY-03128



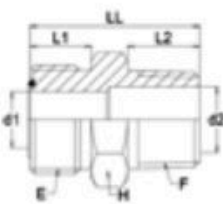
NOTES

ADAPTORS TYPE BSPT

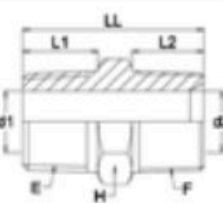
ADAPTOR - MALE BSPT / MALE BSPT

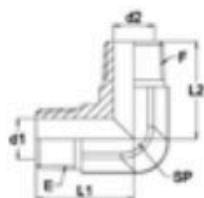
	Description	E BSPT	F BSPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
	M1/8BSPT-M1/8BSPT	1/8-28	1/8-28	10	10	26	4.5	4.5	12	MMS-HY-03129
	M1/8BSPT-M1/4BSPT	1/8-28	1/4-19	10	14	31	4.5	7	17	MMS-HY-03130
	M1/4BSPT-M1/4BSPT	1/4-19	1/4-19	14	14	35	7	7	14	MMS-HY-03131
	M1/4BSPT-M3/8BSPT	1/4-19	3/8-19	14	15	36	7	10	17	MMS-HY-03132
	M1/4BSPT-M1/2BSPT	1/4-19	1/2-14	14	19	41	7	13	22	MMS-HY-03133
	M3/8BSPT-M3/8BSPT	3/8-19	3/8-19	15	15	37	10	10	17	MMS-HY-03134
	M3/8BSPT-M1/2BSPT	3/8-19	1/2-14	15	19	42	10	13	22	MMS-HY-03135
	M1/2BSPT-M1/2BSPT	1/2-14	1/2-14	19	19	46	13	13	22	MMS-HY-03136
	M5/8BSPT-M5/8BSPT	5/8-14	5/8-14	19	19	46	14	14	24	MMS-HY-03137
	M3/4BSPT-M1/2BSPT	3/4-14	1/2-14	19	20	48	13	18	27	MMS-HY-03138
	M3/4BSPT-M3/4BSPT	3/4-14	3/4-14	20	20	49	18	18	27	MMS-HY-03139
	M1 BSPT-M1 BSPT	1-11	1-11	24	24	58	24	24	36	MMS-HY-03140
	M1 1/4BSPT-M1 1/4BSPT	1 1/4-11	1 1/4-11	25	25	62	31	31	46	MMS-HY-03141

ADAPTOR - MALE ORFS + O-RING / MALE BSPT

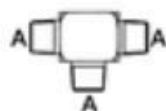
	Description	E ORFS	F BSPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
	M9/16ORFS-M1/4BSPT	9/16-18	1/4	9.8	14	31.8	4.5	7	17	MMS-HY-03142
	M11/16ORFS-M3/8BSPT	11/16-16	3/8	11.2	15	34.9	6.5	10	19	MMS-HY-03143
	M13/16ORFS-M1/2BSPT	13/16-16	1/2	12.8	19	41.6	9.5	13	22	MMS-HY-03144
	M1 ORFS-M1/2BSPT	1-14	1/2	15.5	19	46.1	12.5	12.5	27	MMS-HY-03145
	M1 3/16ORFS-M3/4BSPT	1 3/16-12	3/4	17	20	50.1	15.5	18	32	MMS-HY-03146
	M1 3/16ORFS-M1 BSPT	1 3/16-12	1	17	24	55	15.5	24	36	MMS-HY-03147
	M1 7/16ORFS-M1 BSPT	1 7/16-12	1	17.5	24	55.8	20.5	24	41	MMS-HY-03148
	M1 11/16ORFS-M1 1/4BSPT	1 11/16-12	1 1/4	17.5	25	58.8	26	31	46	MMS-HY-03149
	M2 ORFS-M1 1/2BSPT	2-12	1 1/2	17.5	25	60.6	32	38	55	MMS-HY-03150

ADAPTOR - MALE BSPT / MALE NPT

	Description	E BSPT	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
	M1/4BSPT-M1/8NPT	1/8-28	1/4-18	10	14	26	4.5	7	12	MMS-HY-03151
	M1/8BSPT-M1/4NPT	1/4-18	1/8-28	14	10	31	7	4.5	12	MMS-HY-03152
	M1/4BSPT-M1/4NPT	1/4-19	1/4-18	14	14.2	35	6	6	14	MMS-HY-03153
	M3/8BSPT-M1/4NPT	3/8-19	1/4-18	14	14.2	36	7	9	19	MMS-HY-03154
	M3/8BSPT-M3/8NPT	3/8-19	3/8-18	15	14.2	37	9	9	19	MMS-HY-03155
	M1/4BSPT-M3/8NPT	1/4-19	3/8-18	15	14.2	36	10	6	17	MMS-HY-03156
	M1/2BSPT-M1/2NPT	1/2-14	1/2-14	19	19	46	12	12	22	MMS-HY-03157
	M3/4BSPT-M3/4NPT	3/4-14	3/4-14	20	19	48	16.5	16.5	27	MMS-HY-03158
	M1 BSPT-M1 NPT	1-11	1-11.5	24	23.9	58	21.5	21.5	36	MMS-HY-03159

90° ADAPTOR - MALE BSPT / MALE BSPT

Description	E BSPT	F BSPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M1/8BSPT-M1/8BSPT 90°	1/8-28	1/8-28	20	20	4.5	4.5	12	MMS-HY-03160
M1/4BSPT-M1/4BSPT 90°	1/4-19	1/4-19	26	26	7	7	14	MMS-HY-03161
M3/8BSPT-M3/8BSPT 90°	3/8-19	3/8-19	30	30	10	10	19	MMS-HY-03162
M1/2BSPT-M1/2BSPT 90°	1/2-14	1/2-14	36	36	13	13	22	MMS-HY-03163
M3/4BSPT-M3/4BSPT 90°	3/4-14	3/4-14	43	43	18	18	27	MMS-HY-03164
M1 BSPT-M1 BSPT 90°	1-11	1-11	50	50	24	24	33	MMS-HY-03165

T ADAPTOR - MALE BSPT / MALE BSPT / MALE BSPT

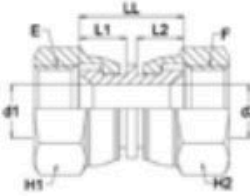
Description	A BSPT	REF
M1/4BSPT-M1/4BSPT-M1/4BSPT	1/4-19	MMS-HY-03166
M3/8BSPT-M3/8BSPT-M3/8BSPT	3/8-19	MMS-HY-03167
M3/8BSPT-M3/8BSPT-M3/8BSPT	1/2-14	MMS-HY-03168

NUT - MALE BSPT

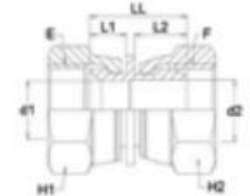
Description	E BSPT	L mm	H mm	REF
BM1/8BSPT HEX	1/8-28	8	5	MMS-HY-03169
BM1/4BSPT HEX	1/4-19	10	6	MMS-HY-03170
BM3/8BSPT HEX	3/8-19	10	8	MMS-HY-03171
BM1/2BSPT HEX	1/2-14	10	10	MMS-HY-03172
BM3/4BSPT HEX	3/4-14	12	12	MMS-HY-03173

ADAPTORS TYPE JIC

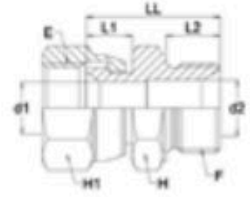
ADAPTOR - FEMALE SWIVEL JIC / FEMALE SWIVEL JIC

	Description	E JIC	F JIC	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H1 mm	H2 mm	REF
	FS7/16JIC-FS7/16JIC	7/16-20	7/16-20	8.5	8.5	19	4.4	4.4	14	14	MMS-HY-03174
	FS7/16JIC-FS1/2JIC	7/16-20	1/2-20	8.5	8.5	19	4.4	6	14	17	MMS-HY-03175
	FS7/16JIC-FS9/16JIC	7/16-20	9/16-18	8.5	9.5	20	4.4	7.5	14	19	MMS-HY-03176
	FS1/2JIC-FS1/2JIC	1/2-20	1/2-20	8.5	8.5	19	6	6	17	17	MMS-HY-03177
	FS9/16JIC-FS9/16JIC	9/16-18	9/16-18	9.5	9.5	21	7.5	7.5	19	19	MMS-HY-03178
	FS3/4JIC-FS9/16JIC	3/4-16	9/16-18	10.5	9.5	22	9.9	7.5	22	19	MMS-HY-03179
	FS3/4JIC-FS3/4JIC	3/4-16	3/4-16	10.5	10.5	23	9.9	9.9	22	22	MMS-HY-03180
	FS7/8JIC-FS7/8JIC	7/8-14	7/8-14	11.5	11.5	26	12.3	12.3	27	27	MMS-HY-03181
	FS1 1/16JIC-FS1 1/16JIC	1 1/16-12	1 1/16-12	13.5	13.5	30	15.5	15.5	32	32	MMS-HY-03182
	FS1 5/16JIC-FS1 5/16JIC	1 5/16-12	1 5/16-12	13.5	13.5	30	21.5	21.5	41	41	MMS-HY-03183

ADAPTOR - FEMALE SWIVEL JIC / FEMALE SWIVEL BSP

	Description	E JIC	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H1 mm	H2 mm	REF
	FS9/16JIC-FS1/4BSP	9/16-18	1/4-19	9.5	11.3	22.8	7.5	4.5	19	19	MMS-HY-03184
	FS9/16JIC-FS3/8BSP	9/16-18	3/8-19	9.5	12.5	24	7.1	7.1	19	22	MMS-HY-03185
	FS3/4JIC-FS3/8BSP	3/4-16	3/8-19	10.5	12.5	25	9.9	7.1	22	22	MMS-HY-03186
	FS3/4JIC-FS1/2BSP	3/4-16	1/2-14	10.5	15	28.5	9.7	9.7	22	27	MMS-HY-03187
	FS7/8JIC-FS1/2BSP	7/8-14	1/2-14	11.5	15	29.5	12.3	9.7	27	27	MMS-HY-03188

ADAPTOR - FEMALE SWIVEL JIC / MALE BSP 60°

	Description	E JIC	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H1 mm	REF
	FS7/16JIC-M1/4BSP	7/16-20	1/4-19	8.5	8	28.5	4.4	4.4	19	14	MMS-HY-03189
	FS1/2JIC-M1/4BSP	1/2-20	1/4-19	8.5	11	28.5	4.7	4.7	19	17	MMS-HY-03190
	FS9/16JIC-M1/4BSP	9/16-18	1/4-19	9.5	11	29.5	7.5	4.7	19	19	MMS-HY-03191
	FS3/4JIC-M1/4BSP	3/4-16	1/4-19	10.5	11	30.5	9.9	4.7	19	22	MMS-HY-03192
	FS7/16JIC-M3/8BSP	7/16-20	3/8-19	8.5	12	30.5	4.7	7.5	22	17	MMS-HY-03193
	FS9/16JIC-M3/8BSP	9/16-18	3/8-19	9.5	12	30.5	7.5	7.5	22	19	MMS-HY-03194
	FS3/4JIC-M3/8BSP	3/4-16	3/8-19	10.5	12	31.5	9.9	7.9	22	22	MMS-HY-03195
	FS7/8JIC-M3/8BSP	7/8-14	3/8-19	11.5	12	32.5	12.3	7.9	22	27	MMS-HY-03196
	FS7/16JIC-M1/2BSP	7/16-20	1/2-14	8.5	14	32.5	4.4	9.9	22	14	MMS-HY-03197
	FS1/2JIC-M1/2BSP	1/2-14	1/2-14	8.5	14	33.5	4.7	11.1	22	17	MMS-HY-03198
	FS9/16JIC-M1/2BSP	9/16-18	1/2-14	9.5	14	33.5	7.5	11.1	27	19	MMS-HY-03199
	FS3/4JIC-M1/2BSP	3/4-16	1/2-14	10.5	14	34.5	9.9	9.9	27	22	MMS-HY-03200
	FS7/8JIC-M1/2BSP	7/8-14	1/2-14	11.5	14	35.5	11.1	11.1	27	27	MMS-HY-03201
	FS1 1/16JIC-M1/2BSP	1 1/16-12	1/2-14	13.5	14	36.5	12.3	11.1	27	32	MMS-HY-03202
	FS3/4JIC-M5/8BSP	3/4-16	5/8-14	10.5	16	37.5	9.9	12.3	30	27	MMS-HY-03203
	FS7/8JIC-M5/8BSP	7/8-14	5/8-14	11.5	16	38.5	11.1	12.3	30	27	MMS-HY-03204
	FS1 1/16JIC-M5/8BSP	1 1/16-12	5/8-14	13.5	16	39.5	14.3	14.3	30	32	MMS-HY-03205
	FS3/4JIC-M3/4BSP	3/4-16	3/4-14	10.5	16	36.5	9.9	16.7	32	22	MMS-HY-03206
	FS7/8JIC-M3/4BSP	7/8-14	3/4-14	11.5	16	37.5	12.3	16.7	32	27	MMS-HY-03207
	FS1 1/16JIC-M3/4BSP	1 1/16-12	3/4-14	13.5	16	39.5	15.5	15.5	32	32	MMS-HY-03208
	FS1 3/16JIC-M3/4BSP	1 3/16-12	3/4-14	13.5	16	40	15.5	15.5	32	32	MMS-HY-03209
	FS1 5/16JIC-M3/4BSP	1 5/16-12	3/4-14	13.5	16	41.5	15.5	21.5	32	41	MMS-HY-03210
	FS1 1/16JIC-M1 BSP	1 1/16-12	1-11	13.5	19	42	15.5	21.5	32	41	MMS-HY-03211
	FS1 3/16JIC-M1 BSP	1 3/16-12	1-11	13.5	19	42.5	21.5	21.5	41	41	MMS-HY-03212
	FS1 5/16JIC-M1 BSP	1 5/16-12	1-11	13.5	19	43.5	21.5	21.5	41	41	MMS-HY-03213

ADAPTOR - FEMALE SWIVEL JIC / MALE BSP 60°

Description	E JIC	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H1 mm	REF
FS1 5/8JIC-M1 BSP	1 5/8-12	1-11	15.5	19	44.5	21.5	27.5	41	50	MMS-HY-03214
FS1 5/16JIC-M1 1/4BSP	1 5/16-12	1 1/4-11	13.5	20	46.5	27.5	27.5	50	50	MMS-HY-03215
FS1 5/8JIC-M1 1/4BSP	1 5/8-12	1 1/4-11	15.5	20	48.5	27.5	27.5	50	50	MMS-HY-03216
FS1 7/8JIC-M1 1/4BSP	1 7/8-12	1 1/4-11	15.5	20	50.5	27.5	27.5	50	50	MMS-HY-03217
FS1 7/8JIC-M2 BSP	2-12	2-11	16.5	25	55.5	45	45	70	75	MMS-HY-03218
FS2 1/2JIC-M2 BSP	2 1/2-12	2-11	16.5	25	60.5	45	45	70	75	MMS-HY-03219

ADAPTOR - FEMALE SWIVEL JIC / MALE SAE

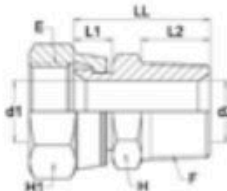
Description	E JIC	F SAE	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H1 mm	REF
FS7/16JIC-M7/16SAE	7/16-20	7/16-20	8.5	9.1	24.5	4.4	4.4	14	14	MMS-HY-03220
FS7/16JIC-M1/2SAE	7/16-20	1/2-20	8.5	9.5	25	4.4	4.5	14	14	MMS-HY-03221
FS7/16JIC-M9/16SAE	7/16-20	9/16-18	8.5	9.9	25.5	4.4	7.5	14	17	MMS-HY-03222
FS1/2JIC-M1/2SAE	1/2-20	1/2-20	9.5	9.5	26	7.5	4.5	17	17	MMS-HY-03223
FS9/16JIC-M9/16SAE	9/16-18	9/16-18	9.5	9.9	26.5	7.5	7.5	17	19	MMS-HY-03224
FS3/4JIC-M9/16SAE	3/4-16	9/16-18	10.5	9.9	27.5	9.9	7.5	17	22	MMS-HY-03225
FS3/4JIC-M3/4SAE	3/4-16	3/4-16	10.5	11.1	29.5	9.9	9.9	22	22	MMS-HY-03226
FS3/4JIC-M7/8SAE	3/4-16	7/8-14	10.5	12.3	30	9.9	11.1	22	22	MMS-HY-03227
FS3/4JIC-M1 1/16SAE	3/4-16	1 1/16-12	10.5	15.1	31.5	9.9	15.5	22	24	MMS-HY-03228
FS7/8JIC-M7/8SAE	7/8-14	7/8-14	11.5	12.3	32	11.1	11.1	24	24	MMS-HY-03229
FS7/8JIC-M3/4SAE	7/8-14	3/4-16	11.5	11.1	32.5	11.1	9.9	24	27	MMS-HY-03230
FS7/8JIC-M1 1/16SAE	7/8-14	1 1/16-12	11.5	15.1	33.5	11.1	15.5	24	27	MMS-HY-03231
FS1 1/16JIC-M3/4SAE	1 1/16-12	3/4-16	13.5	11.1	35.5	15.5	9.9	27	27	MMS-HY-03232
FS1 1/16JIC-M7/8SAE	1 1/16-12	7/8-14	13.5	12.3	36	15.5	11.1	27	32	MMS-HY-03233
FS1 1/16JIC-M1 1/16SAE	1 1/16-12	1 1/16-12	13.5	15.1	37.5	15.5	15.5	32	32	MMS-HY-03234
FS1 5/16JIC-M1 1/16SAE	1 5/16-12	1 1/16-12	13.5	15.1	38	15.5	15.5	32	41	MMS-HY-03235
FS1 1/16JIC-M1 5/16SAE	1 1/16-12	1 5/16-12	13.5	15.1	38.5	21.5	21.5	41	41	MMS-HY-03236
FS1 5/16JIC-M1 5/16SAE	1 5/16-12	1 5/16-12	13.5	15.1	38.5	21.5	21.5	41	50	MMS-HY-03237

ADAPTOR - FEMALE SWIVEL JIC / MALE METRIC 60°

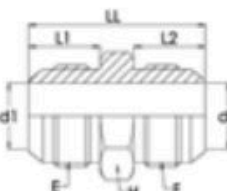
Description	E JIC	F Metric	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H1 mm	REF
FS7/16JIC-MM10x1.5	7/16-20	M10x1.5	8.5	10	24.5	4.4	4.4	14	14	MMS-HY-03238
FS1/2JIC-MM12x1.5	1/2-20	M12x1.5	8.5	10	27.5	6	4	17	17	MMS-HY-03239
FS9/16JIC-MM14x1.5	9/16-18	M14x1.5	9.5	12	31.5	6	6	19	19	MMS-HY-03240
FS9/16JIC-MM16x1.5	9/16-18	M16x1.5	9.5	12	31.5	7.5	7.5	22	19	MMS-HY-03241
FS3/4JIC-MM16x1.5	3/4-16	M16x1.5	10.5	14	33.5	10	10	22	22	MMS-HY-03242
FS7/8JIC-MM22x1.5	7/8-14	M22x1.5	11.5	14	35.5	12.3	12.3	22	27	MMS-HY-03243

ADAPTORS TYPE JIC

ADAPTOR - FEMALE SWIVEL JIC / MALE NPT

	Description	E JIC	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H1 mm	REF
	FS7/16JIC-M1/8NPT	7/16-20	1/8-27	8.5	10	24.5	4.4	4.4	12	14	MMS-HY-03244
	FS1/2JIC-M1/8NPT	1/2-20	1/8-27	8.5	14	29.5	4.4	7	14	14	MMS-HY-03245
	FS9/16JIC-M1/8NPT	9/16-18	1/8-27	8.5	14	29.5	6	6	14	17	MMS-HY-03246
	FS7/16JIC-M1/4NPT	7/16-20	1/4-18	9.5	14	30.5	6.6	6.6	14	17	MMS-HY-03247
	FS1/2JIC-M1/4NPT	1/2-20	1/4-18	9.5	14	30.5	7	7	14	19	MMS-HY-03248
	FS9/16JIC-M1/4NPT	9/16-18	1/4-18	9.5	15	31.5	7.5	10	17	19	MMS-HY-03249
	FS3/4JIC-M1/4NPT	3/4-16	1/4-18	10.5	15	33.5	10	10	19	22	MMS-HY-03250
	FS9/16JIC-M3/8NPT	9/16-18	3/8-18	11.5	15	34.5	12.3	10	22	27	MMS-HY-03251
	FS3/4JIC-M3/8NPT	3/4-16	3/8-18	11.5	19	35.5	7	13	22	27	MMS-HY-03252
	FS7/8JIC-M3/8NPT	7/8-14	3/8-18	10.5	19	37.5	9.9	13	22	22	MMS-HY-03253
	FS9/16JIC-M1/2NPT	9/16-18	1/2-14	11.5	19	38.5	12.3	12.3	22	27	MMS-HY-03254
	FS3/4JIC-M1/2NPT	3/4-16	1/2-14	13.5	19	41.5	15.5	13	27	32	MMS-HY-03255
	FS7/8JIC-M1/2NPT	7/8-14	1/2-14	13.5	20	42.5	15.5	15.5	27	32	MMS-HY-03256
	FS1 1/16JIC-M1/2NPT	1 1/16-12	1/2-14	13.5	24	42.5	15.5	18	27	32	MMS-HY-03257
	FS7/8JIC-M3/4NPT	7/8-14	3/4-14	13.5	20	42.5	21.5	18	32	41	MMS-HY-03258
	FS1 1/16JIC-M3/4NPT	1 1/16-12	3/4-14	13.5	24	47.5	21.5	21.5	36	41	MMS-HY-03259
	FS1 5/16JIC-M3/4NPT	1 5/16-12	3/4-14	13.5	27	47.5	21.5	22	36	41	MMS-HY-03260
	FS1 5/16JIC-M1 NPT	1 5/16-12	1-11.5	14	30	48	24	24	39	46	MMS-HY-03261

ADAPTOR - MALE JIC / MALE JIC

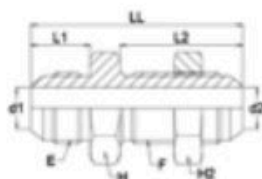
	Description	E JIC	F JIC	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
	M5/16JIC-M5/16JIC	5/16-24	5/16-24	11.5	11.5	30.5	3.2	3.2	10	MMS-HY-03262
	M3/8JIC-M3/8JIC	3/8-24	3/8-24	12.2	12.2	31.2	3.2	3.2	11	MMS-HY-03263
	M7/16JIC-M7/16JIC	7/16-20	7/16-20	14	14	34.8	4.4	4.4	12	MMS-HY-03264
	M7/16JIC-M1/2JIC	7/16-20	1/2-20	14	14	34.8	4.4	6	14	MMS-HY-03265
	M7/16JIC-M9/16JIC	7/16-20	9/16-18	14.1	14	35.5	7.5	4.4	17	MMS-HY-03266
	M7/16JIC-M3/4JIC	7/16-20	3/4-16	16.7	14	38.3	9.9	4.4	19	MMS-HY-03267
	M1/2JIC-M1/2JIC	1/2-20	1/2-20	14	14	34.8	6	6	14	MMS-HY-03268
	M1/2JIC-M9/16JIC	1/2-20	9/16-18	14.1	14	35.5	7.5	6	17	MMS-HY-03269
	M1/2JIC-M3/4JIC	1/2-20	3/4-16	16.7	14	38.3	9.9	6	19	MMS-HY-03270
	M1/2JIC-M7/8JIC	1/2-20	7/8-14	19.3	14	42.5	12.3	6	24	MMS-HY-03271
	M9/16JIC-M9/16JIC	9/16-18	9/16-18	14.1	14.1	35.8	7.5	7.5	17	MMS-HY-03272
	M9/16JIC-M3/4JIC	9/16-18	3/4-16	14.1	16.7	38.6	7.5	9.9	19	MMS-HY-03273
	M9/16JIC-M7/8JIC	9/16-18	7/8-14	19.3	14.1	42.7	12.3	7.5	24	MMS-HY-03274
	M9/16JIC-M1 1/16JIC	9/16-18	1 1/16-12	14.1	16.7	38.6	7.5	7.5	17	MMS-HY-03275
	M3/4JIC-M3/4JIC	3/4-16	3/4-16	16.7	16.7	41.1	9.9	9.9	19	MMS-HY-03276
	M3/4JIC-M7/8JIC	3/4-16	7/8-14	19.3	16.7	45.3	12.3	9.9	24	MMS-HY-03277
	M3/4JIC-M1 1/16JIC	3/4-16	1 1/16-12	21.9	16.7	49.6	15.5	9.9	27	MMS-HY-03278
	M7/8JIC-M7/8JIC	7/8-14	7/8-14	19.3	19.3	47.8	12.3	12.3	24	MMS-HY-03279
	M7/8JIC-M1 1/16JIC	7/8-14	1 1/16-12	21.9	19.3	52.1	15.5	12.3	27	MMS-HY-03280
	M7/8JIC-M1 5/16JIC	7/8-14	1 5/16-12	23.1	19.3	53.4	21.5	12.3	36	MMS-HY-03281
	M1 1/16JIC-M1 1/16JIC	1 1/16-12	1 1/16-12	21.9	21.9	54.9	15.5	15.5	27	MMS-HY-03282
	M1 1/16JIC-M1 3/16JIC	1 1/16-12	1 3/16-12	22.6	21.9	55.3	18	15.5	32	MMS-HY-03283
	M1 3/16JIC-M1 3/16JIC	1 3/16-12	1 3/16-12	22.6	22.6	56.1	18	18	32	MMS-HY-03284
	M1 1/16JIC-M1 5/16JIC	1 1/16-12	1 5/16-12	23.1	21.9	55.9	21.5	15.5	36	MMS-HY-03285
	M1 3/16JIC-M1 5/16JIC	1 3/16-12	1 5/16-12	23.1	22.5	56.1	21.5	15.5	36	MMS-HY-03286
	M1 5/16JIC-M1 5/16JIC	1 5/16-12	1 5/16-12	23.1	23.1	57.2	21.5	21.5	36	MMS-HY-03287
	M1 5/16JIC-M15/8JIC	1 5/16-12	1 5/8-12	24.3	23.1	60.4	27.5	21.5	46	MMS-HY-03288
	M1 5/8JIC-M15/8JIC	1 5/8-12	1 5/8-12	24.3	24.3	61.7	27.5	27.5	46	MMS-HY-03289
	M1 7/8JIC-M1 7/8JIC	1 7/8-12	1 7/8-12	27.5	27.5	69.8	33	33	50	MMS-HY-03290

ADAPTOR - MALE JIC / MALE JIC

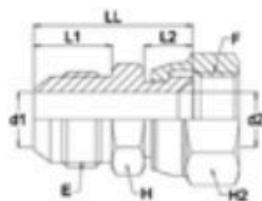
Description	E JIC	F JIC	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M2 1/2JIC-M2 1/2JIC	2 1/2-12	2 1/2-12	33.9	33.9	86.4	45	45	65	MMS-HY-03291

ADAPTOR - MALE JIC / BULKHEAD MALE JIC + LOCKNUT

Description	E JIC	F JIC	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H2 mm	REF
M3/8JIC-M3/8JIC BL	3/8-24	3/8-24	12	27.5	51.1	3.5	3.5	14	14	MMS-HY-03292
M7/16JIC-M7/16JIC BL	7/16-20	7/16-20	14	30.5	52.6	4.4	4.4	17	17	MMS-HY-03293
M1/2JIC-M1/2JIC BL	1/2-20	1/2-20	14	30.5	52.6	6	6	19	19	MMS-HY-03294
M9/16JIC-M9/16JIC BL	9/16-18	9/16-18	14.1	32.5	55.4	7.5	7.5	22	22	MMS-HY-03295
M3/4JIC-M3/4JIC BL	3/4-16	3/4-16	16.7	36.6	62	9.9	9.9	24	24	MMS-HY-03296
M7/8JIC-M7/8JIC BL	7/8-14	7/8-14	19.3	40.1	69.6	12.3	12.3	30	30	MMS-HY-03297
M1 1/16JIC-M1 1/16JIC BL	1 1/16-12	1 1/16-12	21.9	44.4	78.5	15.5	15.5	36	36	MMS-HY-03298
M1 3/16JIC-M1 3/16JIC BL	1 3/16-12	1 3/16-12	22	44.4	79	21.5	21.5	40	40	MMS-HY-03299
M1 5/16JIC-M1 5/16JIC BL	1 5/16-12	1 5/16-12	23.1	44.4	79.8	21.5	21.5	41	41	MMS-HY-03300
M1 5/8JIC-M1 5/8JIC BL	1 5/8-12	1 5/8-12	24.3	45.7	84.1	27.5	27.5	50	50	MMS-HY-03301
M1 7/8JIC-M1 7/8JIC BL	1 7/8-12	1 7/8-12	27.5	46	89.4	33	33	55	55	MMS-HY-03302

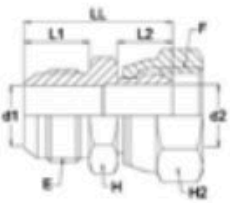
**ADAPTOR - MALE JIC / FEMALE SWIVEL JIC**

Description	E JIC	F JIC	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H2 mm	REF
M7/16JIC-FS7/16JIC	7/16-20	7/16-20	14	8.5	28.5	4.4	4.4	12	14	MMS-HY-03303
M7/16JIC-FS9/16JIC	7/16-20	9/16-18	14	9.5	30.5	4.4	7.5	14	19	MMS-HY-03304
M7/16JIC-FS3/4JIC	7/16-20	3/4-16	14	10.5	32.5	4.4	9.9	19	22	MMS-HY-03305
M7/16JIC-FS7/8JIC	7/16-20	7/8-14	14	11.5	33.5	4.4	12.3	22	27	MMS-HY-03306
M1/2JIC-FS1/2JIC	1/2-20	1/2-20	14	8.5	29.5	6	6	14	17	MMS-HY-03307
M9/16JIC-FS7/16JIC	9/16-18	7/16-20	14.1	8.5	30	7.5	4.4	17	14	MMS-HY-03308
M9/16JIC-FS1/2JIC	9/16-18	1/2-20	14.1	8.5	30	7.5	6	17	17	MMS-HY-03309
M9/16JIC-FS9/16JIC	9/16-18	9/16-18	14.1	9.5	30.5	7.5	7.5	17	19	MMS-HY-03310
M9/16JIC-FS3/4JIC	9/16-18	3/4-16	14.1	10.5	33	7.5	9.9	19	22	MMS-HY-03311
M9/16JIC-FS1 1/16JIC	9/16-18	1 1/16-12	14.1	13.5	36.5	7.5	15.5	27	32	MMS-HY-03312
M3/4JIC-FS9/16JIC	3/4-16	9/16-18	16.7	9.5	34	9.9	7.5	19	19	MMS-HY-03313
M3/4JIC-FS3/4JIC	3/4-16	3/4-16	16.7	10.5	35.5	9.9	9.9	19	22	MMS-HY-03314
M3/4JIC-FS7/8JIC	3/4-16	7/8-14	16.7	11.5	36	9.9	12.3	22	27	MMS-HY-03315
M3/4JIC-FS1 1/16JIC	3/4-16	1 1/16-12	16.7	13.5	39.5	9.9	15.5	27	32	MMS-HY-03316
M7/8JIC-FS3/4JIC	7/8-14	3/4-16	19.3	10.5	38	12.3	9.9	24	22	MMS-HY-03317
M7/8JIC-FS7/8JIC	7/8-14	7/8-14	19.3	11.5	39	12.3	12.3	24	27	MMS-HY-03318
M7/8JIC-FS1 1/16JIC	7/8-14	1 1/16-12	19.3	13.5	42	12.3	15.5	27	32	MMS-HY-03319
M1 1/16JIC-FS7/8JIC	1 1/16-12	7/8-14	21.9	11.5	42.5	15.5	12.3	27	27	MMS-HY-03320
M1 1/16JIC-FS1 1/16JIC	1 1/16-12	1 1/16-12	21.9	13.5	44.5	15.5	15.5	27	32	MMS-HY-03321
M1 1/16JIC-FS1 3/16JIC	1 1/16-12	1 3/16-12	21.9	13.5	44.5	15.5	18	27	27	MMS-HY-03322
M1 1/16JIC-FS1 5/16JIC	1 1/16-12	1 5/16-12	21.9	13.5	44.5	15.5	21.5	32	41	MMS-HY-03323
M1 3/16JIC-FS1 3/16JIC	1 3/16-12	1 3/16-12	22	13.5	45.5	16.3	21.5	32	41	MMS-HY-03324
M1 5/16JIC-FS1 5/16JIC	1 5/16-12	1 5/16-12	23.1	13.5	47	21.5	21.5	36	41	MMS-HY-03325
M1 5/16JIC-FS1 5/8JIC	1 5/16-12	1 5/8-12	23.1	15.5	49	21.5	27.5	41	50	MMS-HY-03326

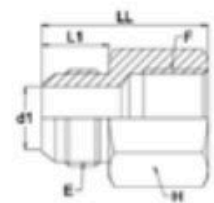


ADAPTORS TYPE JIC

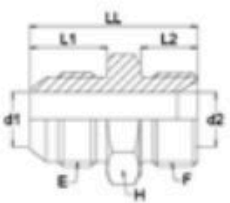
ADAPTOR - MALE JIC / FEMALE SWIVEL BSP

	Description	E JIC	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H2 mm	REF
	M9/16JIC- FS3/8BSP	9/16-18	3/8-19	14.1	12.5	33.5	7.5	7.5	17	22	MMS-HY-03327
	M3/4JIC-FS3/8BSP	3/4-16	3/8-19	16.7	12.5	37	9.9	7.9	19	22	MMS-HY-03328
	M3/4JIC-FS1/2BSP	3/4-16	1/2-14	16.7	15	40	9.9	9.9	19	27	MMS-HY-03329
	M3/4JIC-FS3/4BSP	3/4-16	3/4-14	16.7	17.8	43.5	9.9	15.5	27	32	MMS-HY-03330
	M7/8JIC-FS1/2BSP	7/8-14	1/2-14	19.3	15	42.5	12.3	11.1	24	27	MMS-HY-03331
	M7/8JIC-FS5/8BSP	7/8-14	5/8-14	19.3	15	46	15.5	11.1	27	27	MMS-HY-03332
	M7/8JIC-FS3/4BSP	7/8-14	3/4-14	19.3	15	47.5	11.1	15.5	27	27	MMS-HY-03333
	M1 1/16JIC-FS3/4BSP	1 1/16-12	3/4-14	21.9	17.8	48.5	15.5	15.5	27	32	MMS-HY-03334

ADAPTOR - MALE JIC / FEMALE BSP FIX

	Description	E JIC	F BSP	L1 mm	LL mm	d1 mm	H mm	REF
	M7/16JIC-F1/8BSP	7/16-20	1/8-28	14	29.5	4.4	14	MMS-HY-03335
	M7/16JIC-F1/4BSP	7/16-20	1/4-19	14	34.5	4.4	19	MMS-HY-03336
	M1/2JIC-F1/8BSP	1/2-20	1/8-28	14	29	6	14	MMS-HY-03337
	M1/2JIC-F1/4BSP	1/2-20	1/4-19	14	34	6	19	MMS-HY-03338
	M9/16JIC-F1/8BSP	9/16-18	1/8-28	14.1	28.5	7.5	17	MMS-HY-03339
	M9/16JIC-F1/4BSP	9/16-18	1/4-19	14.1	33.5	7.5	19	MMS-HY-03340
	M9/16JIC-F3/8BSP	9/16-18	3/8-19	14.1	35.5	7.5	22	MMS-HY-03341
	M3/4JIC-F3/8BSP	3/4-16	3/8-19	16.7	37	9.9	22	MMS-HY-03342
	M3/4JIC-F1/2BSP	3/4-16	1/2-14	16.7	42	9.9	27	MMS-HY-03343
	M7/8JIC-F1/2BSP	7/8-14	1/2-14	19.3	44	12.3	27	MMS-HY-03344
	M1 1/16JIC-F1/2BSP	1 1/16-12	1/2-14	21.9	45.5	15.5	27	MMS-HY-03345
	M1 1/16JIC-F3/4BSP	1 1/16-12	3/4-14	21.9	49	15.5	32	MMS-HY-03346

ADAPTOR - MALE JIC / MALE BSP 60°

	Description	E JIC	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
	M5/16JIC-M1/8BSP	5/16-24	1/8-28	12.3	8	27	3.5	3.5	12	MMS-HY-03347
	M3/8JIC-M1/8BSP	3/8-24	1/8-28	13	8	27	4.4	3.5	12	MMS-HY-03348
	M7/16JIC-M1/8BSP	7/16-20	1/8-28	14	8	30	4.4	3.5	14	MMS-HY-03349
	M1/2JIC-M1/8BSP	1/2-20	1/8-28	14	8	30	6	3.5	14	MMS-HY-03350
	M9/16JIC-M1/8BSP	9/16-18	1/8-28	14.1	8	30	7.5	3.5	17	MMS-HY-03351
	M5/16JIC-M1/4BSP	5/16-24	1/4-19	12.3	11	33.3	3.5	4.4	17	MMS-HY-03352
	M3/8JIC-M1/4BSP	3/8-24	1/4-19	13	11	33.3	4.4	4.4	19	MMS-HY-03353
	M7/16JIC-M1/4BSP	7/16-20	1/4-19	14	11	34	4.4	4.4	19	MMS-HY-03354
	M1/2JIC-M1/4BSP	1/2-20	1/4-19	14	11	34	6	4.7	19	MMS-HY-03355
	M9/16JIC-M1/4BSP	9/16-18	1/4-19	14.1	11	34	7.5	4.7	19	MMS-HY-03356
	M3/4JIC-M1/4BSP	3/4-16	1/4-19	16.7	11	35.5	9.9	4.7	19	MMS-HY-03357
	M7/8JIC-M1/4BSP	7/8-14	1/4-19	19.3	11	40.5	12.3	4.7	24	MMS-HY-03358
	M1 1/16JIC-M1/4BSP	1 1/16-12	1/4-19	21.9	11	44	15.5	4.7	22	MMS-HY-03359
	M7/16JIC-M3/8BSP	7/16-20	3/8-19	14	12	35	4.4	7.9	22	MMS-HY-03360
	M1/2JIC-M3/8BSP	1/2-20	3/8-19	14	12	35	6	7.9	22	MMS-HY-03361
	M9/16JIC-M3/8BSP	9/16-18	3/8-19	14.1	12	35	7.5	7.5	22	MMS-HY-03362
	M3/4JIC-M3/8BSP	3/4-16	3/8-19	16.7	12	37.5	9.9	7.9	22	MMS-HY-03363
	M7/8JIC-M3/8BSP	7/8-14	3/8-19	19.3	12	40.5	12.3	7.9	24	MMS-HY-03364
	M1 1/16JIC-M3/8BSP	1 1/16-12	3/8-19	21.9	12	44	15.5	7.9	27	MMS-HY-03365
	M7/16JIC-M1/2BSP	7/16-20	1/2-14	14	14	38	4.4	11.1	27	MMS-HY-03366
	M1/2JIC-M1/2BSP	1/2-20	1/2-14	14	14	38	6	11.1	27	MMS-HY-03367
	M9/16JIC-M1/2BSP	9/16-18	1/2-14	14.1	14	38	7.5	11.1	27	MMS-HY-03368

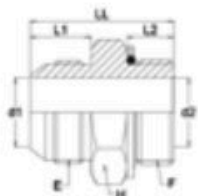
ADAPTOR - MALE JIC / MALE BSP 60°

Description	E JIC	F BSP	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M3/4JIC-M1/2BSP	3/4-16	1/2-14	16.7	14	40.5	9.9	9.9	27	MMS-HY-03369
M7/8JIC-M1/2BSP	7/8-14	1/2-14	19.3	14	43.5	12.3	11.1	27	MMS-HY-03370
M1 1/16JIC-M1/2BSP	1 1/16-12	1/2-14	21.9	14	46	15.5	11.1	27	MMS-HY-03371
M3/16JIC-M1/2BSP	1 3/16-12	1/2-14	22.6	14	46.5	18	11.1	32	MMS-HY-03372
M1 5/16JIC-M1/2BSP	1 5/16-12	1/2-14	23.1	14	48	21.5	11.1	32	MMS-HY-03373
M9/16JIC-M5/8BSP	9/16-18	5/8-14	14.1	16	40.5	7.5	14.3	30	MMS-HY-03374
M3/4JIC-M5/8BSP	3/4-16	5/8-14	16.7	16	42.5	9.9	14.3	30	MMS-HY-03375
M7/8JIC-M5/8BSP	7/8-14	5/8-14	19.3	16	45.5	12.3	14.3	30	MMS-HY-03376
M1 1/16JIC-M5/8BSP	1 1/16-12	5/8-14	21.9	16	48	15.5	14.3	30	MMS-HY-03377
M1 3/16JIC-M5/8BSP	1 3/16-12	5/8-14	22.6	16	50	18	14.3	36	MMS-HY-03378
M1 5/16JIC-M5/8BSP	1 5/16-12	5/8-14	23.1	16	52	21.5	14.3	36	MMS-HY-03379
M7/16JIC-M3/4BSP	7/16-20	3/4-14	14	16	35	3.5	16.7	36	MMS-HY-03380
M1/2JIC-M3/4BSP	1/2-20	3/4-14	14	16	38	4.4	16.7	32	MMS-HY-03381
M9/16JIC-M3/4BSP	9/16-18	3/4-14	14.1	16	40	7.5	16.7	32	MMS-HY-03382
M3/4JIC-M3/4BSP	3/4-16	3/4-14	16.7	16	42.5	9.9	16.7	32	MMS-HY-03383
M7/8JIC-M3/4BSP	7/8-14	3/4-14	19.3	16	45.5	12.3	16.7	32	MMS-HY-03384
M1 1/16JIC-M3/4BSP	1 1/16-12	3/4-14	21.9	16	48	15.5	15.5	32	MMS-HY-03385
M1 3/16JIC-M3/4BSP	1 3/16-12	3/4-14	22.6	16	48.5	18	16.7	32	MMS-HY-03386
M1 5/16JIC-M3/4BSP	1 5/16-12	3/4-14	23.1	16	50	21.5	16.7	36	MMS-HY-03387
M1 5/8JIC-M3/4BSP	1 5/8-12	3/4-14	24.3	16	55.5	27.5	16.7	46	MMS-HY-03388
M3/4JIC-M1 BSP	3/4-16	1-11	16.7	19	56.5	9.9	22.2	46	MMS-HY-03389
M7/8JIC-M1 BSP	7/8-14	1-11	19.3	19	49.5	12.3	22.2	41	MMS-HY-03390
M1 1/16JIC-M1 BSP	1 1/16-12	1-11	21.9	19	52	15.5	22.2	41	MMS-HY-03391
M1 3/16JIC-M1 BSP	1 3/16-12	1-11	22.6	19	52.5	18	22.2	41	MMS-HY-03392
M1 5/16JIC-M1 BSP	1 5/16-12	1-11	23.1	19	53	21.5	21.5	41	MMS-HY-03393
M1 5/8JIC-M1 BSP	1 5/8-12	1-11	24.3	19	56.5	27.5	22.2	46	MMS-HY-03394
M1 7/8JIC-M1 BSP	1 7/8-12	1-11	27.5	19	57.5	33	22.2	46	MMS-HY-03395
M3/4JIC-M1 1/4BSP	3/4-16	1 1/4-11	16.7	20	57.5	27.5	28.6	46	MMS-HY-03396
M7/8JIC-M1 1/4BSP	7/8-14	1 1/4-11	27.5	20	60.5	33	28.6	50	MMS-HY-03397
M1 1/16JIC-M1 1/4BSP	1 1/16-12	1 1/4-11	21.9	20	55	15.5	28.6	50	MMS-HY-03398
M1 3/16JIC-M1 1/4BSP	1 3/16-12	1 1/4-11	22.6	20	55.3	18	28.6	50	MMS-HY-03399
M1 5/16JIC-M1 1/4BSP	1 5/16-12	1 1/4-11	23.1	20	56	21.5	28.6	50	MMS-HY-03400
M15/8JIC-M1 1/4BSP	1 5/8-12	1 1/4-11	24.3	20	57.5	27.5	27.5	50	MMS-HY-03401
M1 7/8JIC-M1 1/4BSP	1 7/8-12	1 1/4-11	27.5	20	60.5	33	28.6	50	MMS-HY-03402
M2 1/2JIC-M1 1/4BSP	2 1/2-12	1 1/4-11	33.9	20	61	33.5	28.6	55	MMS-HY-03403
M7/8JIC-M1 1/2BSP	7/8-14	1 1/2-11	27.5	22	65.5	15.5	33	55	MMS-HY-03404
M1 1/16JIC-M1 1/2BSP	1 1/16-12	1 1/2-11	21.9	22	60.5	18	33	55	MMS-HY-03405
M1 5/16JIC-M1 1/2BSP	1 5/16-12	1 1/2-11	23.1	22	61	21.5	33.3	55	MMS-HY-03406
M1 5/8JIC-M1 1/2BSP	1 5/8-12	1 1/2-11	24.3	22	62.5	27.5	33.3	55	MMS-HY-03407
M1 7/8JIC-M1 1/2BSP	1 7/8-12	1 1/2-11	27.5	22	65.5	33	33	55	MMS-HY-03408
M2 1/2JIC-M1 1/2BSP	2 1/2-12	1 1/2-11	33.9	22	72	45	33.3	65	MMS-HY-03409
M1 5/16JIC-M2 BSP	1 5/16-12	2-11	23.1	25	65.5	21.5	46	70	MMS-HY-03410
M1 5/8JIC-M2 BSP	1 5/8-12	2-11	24.3	25	67.5	27.5	46	70	MMS-HY-03411
M1 7/8JIC-M2 BSP	1 7/8-12	2-11	27.5	25	71.5	33	46	70	MMS-HY-03412
M1 1/2JIC-M2 BSP	2 1/2-12	2-11	33.9	25	72.3	45	46	70	MMS-HY-03413

ADAPTORS TYPE JIC

ADAPTOR - MALE JIC / MALE BSP + O-RING + RETAINING RING

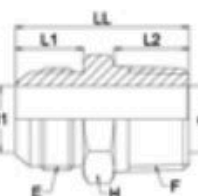
	Description	E JIC	F GAS	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
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M7/16JIC-M1/8BSP	7/16-20	1/8-28	14	7.6	29	4.4	4.4	14	MMS-HY-03414
M7/16JIC-M1/4BSP	7/16-20	1/4-19	14	11.2	31.7	4.4	7.5	19	MMS-HY-03415
M7/16JIC-M3/8BSP	7/16-20	3/8-19	14	11.2	33.2	4.4	9.9	22	MMS-HY-03416
M7/16JIC-M1/2BSP	7/16-20	1/2-14	14	14.5	38.7	4.4	12.3	30	MMS-HY-03417
M1/2JIC-M1/4BSP	1/2-20	1/4-19	14	11.2	32	6	6	19	MMS-HY-03418
M1/2JIC-M3/8BSP	1/2-20	3/8-19	14	11.2	33.2	6	9.9	22	MMS-HY-03419
M9/16JIC-M1/8BSP	9/16-18	1/8-28	14.1	11.2	31.7	6	9.9	14	MMS-HY-03420
M9/16JIC-M1/4BSP	9/16-18	1/4-19	14.1	11.2	32	7.5	7.5	19	MMS-HY-03421
M9/16JIC-M3/8BSP	9/16-18	3/8-19	14.1	11.2	33.5	7.5	9.9	22	MMS-HY-03422
M9/16JIC-M1/2BSP	9/16-18	1/2-14	14.1	14.5	38.9	7.5	12.3	30	MMS-HY-03423
M3/4JIC-M1/4BSP	3/4-16	1/4-19	16.7	11.2	36	9.9	7.5	19	MMS-HY-03424
M3/4JIC-M3/8BSP	3/4-16	3/8-19	16.7	11.2	36	9.9	9.9	22	MMS-HY-03425
M3/4JIC-M1/2BSP	3/4-16	1/2-14	16.7	14.5	41.5	9.9	9.9	30	MMS-HY-03426
M3/4JIC-M3/4BSP	3/4-16	3/4-14	16.7	14.5	42.2	9.9	15.5	36	MMS-HY-03427
M7/8JIC-M3/8BSP	7/8-14	3/8-19	19.3	11.2	40.7	12.3	9.9	24	MMS-HY-03428
M7/8JIC-M1/2BSP	7/8-14	1/2-14	19.3	14.5	44	12.3	12.3	30	MMS-HY-03429
M7/8JIC-M5/8BSP	7/8-14	5/8-14	19.3	14.5	44.2	12.3	15.5	36	MMS-HY-03430
M7/8JIC-M3/4BSP	7/8-14	3/4-14	19.3	14.5	44.7	12.3	15.5	36	MMS-HY-03431
M1 1/16JIC-M3/8BSP	1 1/16-12	3/8-19	21.9	11.2	44.2	15.5	9.9	27	MMS-HY-03432
M1 1/16JIC-M1/2BSP	1 1/16-12	1/2-14	21.9	14.5	47.5	15.5	12.3	30	MMS-HY-03433
M1 1/16JIC-M3/4BSP	1 1/16-12	3/4-14	21.9	14.5	47.5	15.5	15.5	36	MMS-HY-03434
M1 1/16JIC-M1 BSP	1 1/16-12	1-11	21.9	18.6	52.2	15.5	21.5	46	MMS-HY-03435
M1 3/16JIC-M3/4BSP	1 3/16-12	3/4-14	23.1	14.5	47.5	21.5	12.3	30	MMS-HY-03436
M1 5/16JIC-M3/4BSP	1 5/16-12	3/4-14	23.1	14.5	49.4	21.5	15.5	36	MMS-HY-03437
M1 5/16JIC-M1 BSP	1 5/16-12	1-11	23.1	18.6	53.5	21.5	21.5	46	MMS-HY-03438
M1 5/16JIC-M1 1/4BSP	1 5/16-12	1 1/4-11	23.1	18.6	55.7	21.5	27.5	50	MMS-HY-03439
M1 5/8JIC-M1 BSP	1 5/8-12	1-11	24.3	18.6	57	27.5	21.5	46	MMS-HY-03440
M1 5/8JIC-M1 1/4BSP	1 5/8-12	1 1/4-11	24.3	18.6	57	27.5	27.5	50	MMS-HY-03441
M1 5/8JIC-M1 1/2BSP	1 5/8-12	1 1/2-11	24.3	18.6	57.8	27.5	33	55	MMS-HY-03442
M1 7/8JIC-M1 1/4BSP	1 7/8-12	1 1/4-11	27.5	18.6	61	33	27.5	50	MMS-HY-03443
M1 7/8JIC-M1 1/2BSP	1 7/8-12	1 1/2-11	27.5	18.6	61	33	33	55	MMS-HY-03444

ADAPTOR - MALE JIC / MALE BSPT

	Description	E JIC	F BSPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
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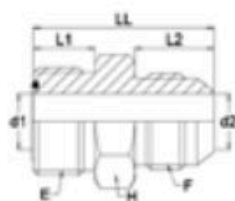
M7/16JIC-M1/8BSPT	7/16-20	1/8-28	14	10	30	4.5	4.5	12	MMS-HY-03445
M7/16JIC-M1/4BSPT	7/16-20	1/4-19	14	14	35	4.4	7	14	MMS-HY-03446
M7/16JIC-M3/8BSPT	7/16-20	3/8-19	14	15	36	4.4	10	17	MMS-HY-03447
M1/2JIC-M1/4BSPT	1/2-20	1/4-19	14	14	35	6	7	14	MMS-HY-03448
M9/16JIC-M1/4BSPT	9/16-18	1/4-19	14.1	14	35	7.5	7.5	17	MMS-HY-03449
M9/16JIC-M3/8BSPT	9/16-18	3/8-19	14.1	15	36	7.5	10	17	MMS-HY-03450
M9/16JIC-M1/2BSPT	9/16-18	1/2-14	14.1	19	41	7.5	13	22	MMS-HY-03451
M3/4JIC-M1/4BSPT	3/4-16	1/4-19	16.7	14	38.5	9.9	7	19	MMS-HY-03452
M3/4JIC-M3/8BSPT	3/4-16	3/8-19	16.7	15	39.5	9.9	9.9	19	MMS-HY-03453
M3/4JIC-M1/2BSPT	3/4-16	1/2-14	16.7	19	43.5	9.9	13	22	MMS-HY-03454
M7/8JIC-M3/8BSPT	7/8-14	3/8-19	19.3	15	42.5	12.3	10	24	MMS-HY-03455
M7/8JIC-M1/2BSPT	7/8-14	1/2-14	19.3	19	46.5	12.3	12.3	24	MMS-HY-03456
M7/8JIC-M3/4BSPT	7/8-14	3/4-14	19.3	20	48.5	12.3	18	27	MMS-HY-03457
M1 1/16JIC-M1 1/2BSPT	1 1/16-12	1/2-14	21.9	19	50	15.5	13	27	MMS-HY-03458
M1 1/16JIC-M3/4BSPT	1 1/16-12	3/4-14	21.9	20	51	15.5	15.5	27	MMS-HY-03459
M1 1/16JIC-M1 BSPT	1 1/16-12	1-11	21.9	24	56	15.5	24	36	MMS-HY-03460

ADAPTOR - MALE JIC / MALE BSPT

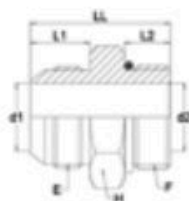
Description	E JIC	F BSPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1 5/16JIC-M3/4BSPT	1 5/16-12	3/4-14	23.1	20	53	21.5	18	36	MMS-HY-03461
M1 5/16JIC-M1 BSPT	1 5/16-12	1-11	23.1	24	57	21.5	21.5	36	MMS-HY-03462
M1 5/8JIC-M1 BSPT	1 5/8-12	1-11	24.3	24	60	27.5	24	46	MMS-HY-03463
M1 5/8JIC-M1 1/4BSPT	1 5/8-12	1 1/4-11	24.3	25	61.5	27.5	31	46	MMS-HY-03464
M1 7/8JIC-M1 1/2BSPT	1 7/8-12	1 1/2-11	27.5	25	64.5	33	33	50	MMS-HY-03465

ADAPTOR - MALE ORFS / MALE JIC

Description	E ORFS	F JIC	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M9/16ORFS-M7/16JIC	9/16-18	7/16-20	9.8	14	31.8	4.4	4.4	17	MMS-HY-03466
M11/16ORFS-M1/2JIC	11/16-16	1/2-12	11.2	14	33.9	6	6	19	MMS-HY-03467
M11/16ORFS-M9/16JIC	11/16-16	9/16-18	11.2	14.1	34	6.5	6.5	19	MMS-HY-03468
M13/16ORFS-M3/4JIC	13/16-16	3/4-16	12.8	16.7	39.3	9.5	9.5	22	MMS-HY-03469
M1 ORFS-M7/8JIC	1-14	7/8-14	15.5	19.3	46.4	12.3	12.3	27	MMS-HY-03470
M1 3/16ORFS-M1/16JIC	1 3/16-12	1 1/16-12	17	21.9	52	15.5	15.5	32	MMS-HY-03471
M1 7/16ORFS-M5/16JIC	1 7/16-12	1 5/16-12	17.5	23.1	54.9	20.5	20.5	41	MMS-HY-03472

**ADAPTOR - MALE JIC / MALE SAE**

Description	E JIC	F SAE	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M7/16JIC-M7/16SAE	7/16-20	7/16-20	14	9.14	31.2	4.4	4.4	14	MMS-HY-03473
M7/16JIC-M1/2SAE	7/16-20	1/2-20	14	9.14	31.2	4.4	6	17	MMS-HY-03474
M7/16JIC-M9/16SAE	7/16-20	9/16-18	14	9.93	32.7	4.4	7.5	17	MMS-HY-03475
M7/16JIC-M3/4SAE	7/16-20	3/4-16	14	11.13	30.9	4.4	9.9	17	MMS-HY-03476
M1/2JIC-M1/2SAE	1/2-20	1/2-20	14	9.14	31.2	6	6	17	MMS-HY-03477
M1/2JIC-M9/16SAE	1/2-20	9/16-18	14	9.93	32.7	6	7.5	17	MMS-HY-03478
M9/16JIC-M7/16SAE	9/16-18	7/16-20	14.1	9.14	32.2	7.5	4.4	17	MMS-HY-03479
M9/16JIC-M1/2SAE	9/16-18	1/2-20	14.1	9.14	32.2	7.5	6	17	MMS-HY-03480
M9/16JIC-M9/16SAE	9/16-18	9/16-18	14.1	9.93	33	7.5	7.5	17	MMS-HY-03481
M9/16JIC-M3/4SAE	9/16-18	3/4-16	14.1	11.13	35.1	7.5	9.9	22	MMS-HY-03482
M9/16JIC-M7/8SAE	9/16-18	7/8-14	14.1	12.7	38.1	7.5	12.3	27	MMS-HY-03483
M3/4JIC-M9/16SAE	3/4-16	9/16-18	16.7	9.93	36.6	9.9	7.5	19	MMS-HY-03484
M3/4JIC-M3/4SAE	3/4-16	3/4-16	16.7	11.13	37.6	9.9	9.9	22	MMS-HY-03485
M3/4JIC-M7/8SAE	3/4-16	7/8-14	16.7	12.7	40.7	9.9	12.3	27	MMS-HY-03486
M3/4JIC-M1 1/16SAE	3/4-16	1 1/16-12	16.7	15.09	44.7	9.9	15.5	32	MMS-HY-03487
M7/8JIC-M9/16SAE	7/8-14	9/16-18	19.3	9.93	40	12.3	7.5	22	MMS-HY-03488
M7/8JIC-M3/4SAE	7/8-14	3/4-16	19.3	11.13	41.7	12.3	9.9	24	MMS-HY-03489
M7/8JIC-M7/8SAE	7/8-14	7/8-14	19.3	12.7	43.2	12.3	12.3	27	MMS-HY-03490
M7/8JIC-M1 1/16SAE	7/8-14	1 1/16-12	19.3	15.09	47.2	12.3	15.5	32	MMS-HY-03491
M7/8JIC-M1 5/16SAE	7/8-14	1 5/16-12	19.3	15.09	48	12.3	21.5	41	MMS-HY-03492
M1 1/16JIC-M3/4SAE	1/16-12	3/4-16	21.9	11.13	49.2	15.5	9.9	27	MMS-HY-03493
M1 1/16JIC-M7/8SAE	1/16-12	7/8-14	21.9	12.7	47.7	15.5	12.3	27	MMS-HY-03494
M1 1/16JIC-M1 1/16SAE	1/16-12	1 1/16-12	21.9	15.09	50	15.5	15.5	32	MMS-HY-03495
M1 1/16JIC-M1 5/16SAE	1 1/16-12	1 5/16-12	21.9	15.09	50.5	15.5	21.5	41	MMS-HY-03496
M1 3/16JIC-M1 1/16SAE	1 3/16-12	1 1/16-12	22.6	15.09	50.5	18	15.5	32	MMS-HY-03497
M1 3/16JIC-M1 3/16SAE	1 3/16-12	1 3/16-12	22.6	15.09	50.5	18	18	36	MMS-HY-03498
M1 3/16JIC-M1 5/16SAE	1 3/16-12	1 5/16-12	22.6	15.19	51.3	18	21.5	41	MMS-HY-03499
M1 5/16JIC-M7/8SAE	1 5/16-12	7/8-14	23.1	12.7	52.6	21.5	12.3	36	MMS-HY-03500
M1 5/16JIC-M1 1/16SAE	1 5/16-12	1 1/16-12	23.1	15.09	51.8	21.5	15.5	36	MMS-HY-03501
M1 5/16JIC-M1 3/16SAE	1 5/16-12	1 3/16-12	23.1	15.09	51.08	21.5	21.5	36	MMS-HY-03502



ADAPTORS TYPE JIC

ADAPTOR - MALE JIC / MALE SAE

Description	E JIC	F SAE	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1 5/16JIC-M1 5/16SAE	1 5/16-12	1 5/16-12	23.1	15.09	51.08	21.5	21.5	41	MMS-HY-03503
M1 5/16JIC-M1 5/8SAE	1 5/16-12	1 5/8-12	23.1	15.09	53.8	21.5	27.5	50	MMS-HY-03504
M1 5/8JIC-M1 5/16SAE	1 5/8-12	1 5/16-12	24.3	15.09	59.2	27.5	21.5	46	MMS-HY-03505
M1 5/8JIC-M1 5/8SAE	1 5/8-12	1 5/8-12	24.3	15.09	55.1	27.5	27.5	50	MMS-HY-03506
M1 5/8JIC-M1 7/8SAE	1 5/8-12	1 7/8-12	24.3	15.09	56.9	27.5	33	55	MMS-HY-03507
M1 7/8JIC-M1 5/8SAE	1 7/8-12	1 5/8-12	27.5	15.09	64.3	33	27.5	50	MMS-HY-03508
M1 7/8JIC-M1 7/8SAE	1 7/8-12	1 7/8-12	27.5	15.09	60.2	33	33	55	MMS-HY-03509
M2 1/2JIC-M2 1/2SAE	2 1/2-12	2 1/2-12	33.9	15.09	70.6	45	45	70	MMS-HY-03510

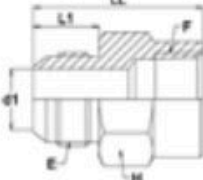
ADAPTOR - MALE JIC / MALE METRIC 60°

Description	E JIC	F Metric	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M7/16JIC-MM10x1	7/16-20	M10x1.0	14	8	29	4.4	3	14	MMS-HY-03511
M1/2JIC-MM12x1.5	1/2-20	M12x1.5	14	10	30	6	4	17	MMS-HY-03512
M9/16JIC-MM12x1.5	9/16-18	M12x1.5	14.1	10	31	7.5	4	17	MMS-HY-03513
M9/16JIC-MM14x1.5	9/16-18	M14x1.5	14.1	11	33	7.5	6	19	MMS-HY-03514
M7/16JIC-MM16x1.5	7/16-20	M16x1.5	14	12	36	4.4	8	22	MMS-HY-03515
M9/16JIC-MM16x1.5	9/16-18	M16x1.5	14.1	12	35	7.5	7.5	22	MMS-HY-03516
M3/4JIC-MM16x1.5	3/4-16	M16x1.5	16.7	12	37.5	9.9	8	22	MMS-HY-03517
M7/8JIC-MM16x1.5	7/8-14	M16x1.5	19.3	12	41.5	12.3	8	24	MMS-HY-03518
M9/16JIC-MM18x1.5	9/16-18	M18x1.5	14.1	12	34	7.5	10	24	MMS-HY-03519
M3/4JIC-MM18x1.5	3/4-16	M18x1.5	16.7	12	36.5	10	10	24	MMS-HY-03520
M7/8JIC-MM18x1.5	7/8-14	M18x1.5	19.3	12	42	12.3	10	24	MMS-HY-03521
M1 1/16JIC-MM18x1.5	1 1/16-12	M18x1.5	21.9	12	45.5	15.5	10	27	MMS-HY-03522
M3/4JIC-MM20x1.5	3/4-16	M20x1.5	16.7	14	40	7.5	12.3	27	MMS-HY-03523
M3/4JIC-MM22x1.5	3/4-16	M22x1.5	16.7	14	41	9.9	14.1	27	MMS-HY-03524
M7/8JIC-MM22x1.5	7/8-14	M22x1.5	19.3	14	43.5	12.3	12.3	27	MMS-HY-03525
M1 1/16JIC-MM22x1.5	1 1/16-12	M22x1.5	21.9	14	47	14.1	14.1	30	MMS-HY-03526

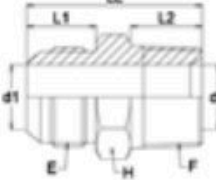
ADAPTOR - MALE JIC / MALE METRIC CAPTIVE SEAL

Description	E JIC	F Metric	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M7/16JIC-MM10x1 ED	7/16-20	M10x1	14	8	31	4	4	14	MMS-HY-03527
M7/16JIC-MM12x1.5 ED	7/16-20	M12x1.5	14	12	33.5	4.4	6	17	MMS-HY-03528
M1/2JIC-MM12x1.5 ED	1/2-20	M12x1.5	14	12	33.5	6	6	17	MMS-HY-03529
M1/2JIC-MM14x1.5 ED	1/2-20	M14x1.5	14	12	33.4	6	6	19	MMS-HY-03530
M9/16JIC-MM12x1.5 ED	9/16-18	M12x1.5	14.1	12	33.5	7	7	19	MMS-HY-03531
M9/16JIC-MM14x1.5 ED	9/16-18	M14x1.5	14.1	12	33.5	7	7	19	MMS-HY-03532
M9/16JIC-MM16x1.5 ED	9/16-18	M16x1.5	14.1	12	35	7.5	7.5	22	MMS-HY-03533
M3/4JIC-MM16x1.5 ED	3/4-16	M16x1.5	16.7	12	37.6	9	9	22	MMS-HY-03534
M3/4JIC-MM18x1.5 ED	3/4-16	M18x1.5	16.7	12	39.1	9.9	9.9	24	MMS-HY-03535
M3/4JIC-MM22x1.5 ED	3/4-16	M22x1.5	16.7	14	40.3	9.9	14.1	27	MMS-HY-03536
M7/8JIC-MM22x1.5 ED	7/8-14	M22x1.5	19.3	14	42.9	12.3	14.1	27	MMS-HY-03537
M1 1/16JIC-MM18x1.5 ED	1 1/16-12	M18x1.5	21.9	12	43.5	15.5	11	27	MMS-HY-03538
M1 1/16JIC-MM26x1.5 ED	1 1/16-12	M26x1.5	21.9	16	48.4	15.5	15.5	32	MMS-HY-03539
M1 1/16JIC-MM27x2 ED	1 1/16-12	M27x2	21.9	16	48.4	15.5	15.5	32	MMS-HY-03540
M1 1/16JIC-MM30x1.5 ED	1 1/16-12	M30x1.5	21.9	16	48.4	15.5	15.5	36	MMS-HY-03541
M1 5/16JIC-MM33x2 ED	1 5/16-12	M33x2	23.1	18	51.6	21.5	21.5	41	MMS-HY-03542

ADAPTOR - MALE JIC / FEMALE NPT

	Description	E JIC	F NPT	L1 mm	LL mm	d1 mm	H mm	REF
	M7/16JIC-F1/8NPT	7/16-20	1/8-27	14	30.2	4.4	16	MMS-HY-03543
	M7/16JIC-F1/4NPT	7/16-20	1/4-18	14	35.3	4.4	19	MMS-HY-03544
	M1/2JIC-F1/8NPT	1/2-20	1/8-27	14	29.7	6	16	MMS-HY-03545
	M1/2JIC-F1/4NPT	1/2-20	1/4-18	14	35.3	6	19	MMS-HY-03546
	M9/16JIC-F1/4NPT	9/16-18	1/4-18	14.1	35.6	7.5	19	MMS-HY-03547
	M9/16JIC-F3/8NPT	9/16-18	3/8-18	14.1	37.1	7.5	22	MMS-HY-03548
	M3/4JIC-F1/4NPT	3/4-16	1/4-18	16.7	39.3	9.9	19	MMS-HY-03549
	M3/4JIC-F3/8NPT	3/4-16	3/8-18	16.7	39.6	9.9	22	MMS-HY-03550
	M3/4JIC-F1/2NPT	3/4-16	1/2-14	16.7	45.5	9.9	29	MMS-HY-03551
	M7/8JIC-F1/2NPT	7/8-14	1/2-14	19.3	48	12.3	30	MMS-HY-03552
	M1 1/16JIC-F1/2NPT	1 1/16-12	1/2-14	21.9	48	14.3	30	MMS-HY-03553
	M1 1/16JIC-F3/4NPT	1 1/16-12	3/4-14	21.9	52.3	15.5	36	MMS-HY-03554
	M1 5/16JIC-F1 NPT	1 5/16-12	1-11.5	23.1	59.7	21.5	41	MMS-HY-03555
	M1 5/8JIC-F1 1/4NPT	1 5/8-12	1 1/4-11.5	24.3	63.2	27.5	50	MMS-HY-03556
	M1 7/8JIC-F1 1/2NPT	1 7/8-12	1 1/2-11.5	27.5	66.5	33	60	MMS-HY-03557
	M2 1/2JIC-F2 NPT	2 1/2-12	2-11.5	33.9	75.4	45	75	MMS-HY-03558

ADAPTOR - MALE JIC / MALE NPT

	Description	E JIC	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
	M5/16JIC-M1/8NPT	5/16-24	1/8-27	11.4	9.7	28.2	1.6	4.5	11	MMS-HY-03559
	M3/8JIC-M1/8NPT	3/8-24	1/8-27	12.2	9.7	29	3.2	4.5	11	MMS-HY-03560
	M7/16JIC-M1/8NPT	7/16-20	1/8-27	14	9.7	31	4.4	4.4	12	MMS-HY-03561
	M1/2JIC-M1/8NPT	1/2-20	1/8-27	14	9.7	31	6	4.5	14	MMS-HY-03562
	M9/16JIC-M1/8NPT	9/16-18	1/8-27	14.1	9.7	31.5	7.5	4.5	17	MMS-HY-03563
	M7/16JIC-M1/4NPT	7/16-20	1/4-18	14	14.2	36	4.4	6	14	MMS-HY-03564
	M1/2JIC-M1/4NPT	1/2-20	1/4-18	14	14.2	36	6	6	14	MMS-HY-03565
	M9/16JIC-M1/4NPT	9/16-18	1/4-18	14.1	14.2	36.3	7.5	6	17	MMS-HY-03566
	M3/4JIC-M1/4NPT	3/4-16	1/4-18	16.7	14.2	38.9	9.9	6	19	MMS-HY-03567
	M7/16JIC-M3/8NPT	7/16-20	3/8-18	14	14.2	36.1	4.4	9	19	MMS-HY-03568
	M1/2JIC-M3/8NPT	1/2-20	3/8-18	14	14.2	36.1	6	9	19	MMS-HY-03569
	M9/16JIC-M3/8NPT	9/16-18	3/8-18	14.1	14.2	36.4	7.5	9	19	MMS-HY-03570
	M3/4JIC-M3/8NPT	3/4-16	3/8-18	16.7	14.2	38.9	9.9	9.9	19	MMS-HY-03571
	M7/8JIC-M3/8NPT	7/8-14	3/8-18	19.3	14.2	43.2	12.3	9	24	MMS-HY-03572
	M9/16JIC-M1/2NPT	9/16-18	1/2-14	14.1	19	42.9	7.5	12	22	MMS-HY-03573
	M3/4JIC-M1/2NPT	3/4-16	1/2-14	16.7	19	45.5	9.9	9.9	22	MMS-HY-03574
	M7/8JIC-M1/2NPT	7/8-14	1/2-14	19.3	19	48	12.3	12.3	24	MMS-HY-03575
	M1 1/16JIC-M1/2NPT	1 1/16-12	1/2-14	21.9	19	52.3	15.5	12	27	MMS-HY-03576
	M1 5/16JIC-M1/2NPT	1 5/16-12	1/2-14	23.1	19	53.6	16.4	12	27	MMS-HY-03577
	M7/16JIC-M3/4NPT	7/16-20	1/2-14	24.3	19	36	21.5	12	27	MMS-HY-03578
	M9/16JIC-M3/4NPT	9/16-18	3/4-14	14.1	19	44.4	7.5	16.5	27	MMS-HY-03579
	M3/4JIC-M3/4NPT	3/4-16	3/4-14	16.7	19	47	9.9	16.5	27	MMS-HY-03580
	M7/8JIC-M3/4NPT	7/8-14	3/4-14	19.3	19	49.5	12.3	16.5	27	MMS-HY-03581
	M1 1/16JIC-M3/4NPT	1 1/16-12	3/4-14	21.9	19	52.3	15.5	15.5	27	MMS-HY-03582
	M1 3/16JIC-M3/4NPT	1 3/16-12	3/4-14	22.6	19	53.1	18	16.5	32	MMS-HY-03583
	M1 5/16JIC-M3/4NPT	1 5/16-12	3/4-14	23.1	19	53.6	21.5	16.5	36	MMS-HY-03584
	M3/4JIC-M1 NPT	3/4-16	1-11.5	16.7	23.9	47	27.5	21.5	36	MMS-HY-03585
	M1 1/16JIC-M1 NPT	1 1/16-12	1-11.5	21.9	23.9	57.1	15.5	21.5	36	MMS-HY-03586
	M1 5/16JIC-M1 NPT	1 5/16-12	1-11.5	23.1	23.9	58.4	21.5	21.5	36	MMS-HY-03587
	M1 5/8JIC-M1 NPT	1 5/8-12	1-11.5	24.3	23.9	61.4	27.5	21.5	46	MMS-HY-03588
	M1 5/8JIC-M1 1/4NPT	1 5/8-12	1 1/4-11.5	24.3	24.6	62.2	27.5	27.5	46	MMS-HY-03589

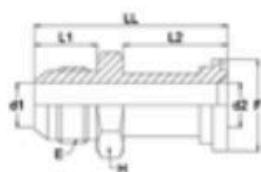
ADAPTORS TYPE JIC

ADAPTOR - MALE JIC / MALE NPT

Description	E JIC	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1 7/8JIC-M1 1/4NPT	1 7/8-12	1 1/4-11.5	27.5	24.6	67.3	33	28.5	50	MMS-HY-03590
M1 7/8JIC-M1 1/2NPT	1 7/8-12	1 1/2-11.5	27.5	25.4	68.1	33	33	50	MMS-HY-03591
M2 1/2JIC-M2 NPT	2 1/2-12	2-11.5	33.9	26.2	79	45	45	65	MMS-HY-03592

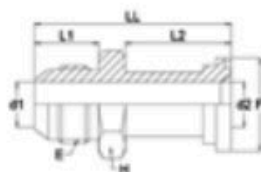
ADAPTOR - MALE JIC / BRIDES SAE 3000

Description	E JIC	F SAE	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M3/4JIC-BR3 30.1	3/4-16	30.1	17	13.5	37.5	9.9	9.9	21	MMS-HY-03593
M1 1/16JIC-BR3 38.1	1 1/16-12	38.1	22	30.5	62	15	15	27	MMS-HY-03594
M1 1/16JIC-BR3 44.5	1 1/16-12	44.5	22	34	62	16	16	30	MMS-HY-03595
M1 5/16JIC-BR3 44.5	1 5/16-12	44.5	23.5	34	66	16	16	36	MMS-HY-03596
M1 5/8JIC-BR3 50.8	1 5/8-12	50.8	24.5	33.5	67	26	26	42	MMS-HY-03597
M1 7/8JIC-BR3 60.3	1 7/8-12	60.3	27	35.5	74	32	32	50	MMS-HY-03598



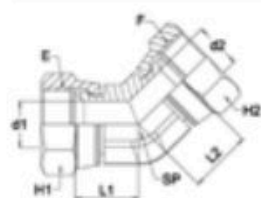
ADAPTOR - MALE JIC / BRIDES SAE 6000

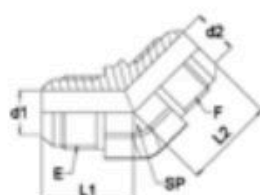
Description	E JIC	F SAE	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M7/8JIC-BR6 31.8	7/8-14	31.8	19.5	32	60	10	10	22	MMS-HY-03599
M1 1/16JIC-BR6 31.8	1 1/16-12	31.8	22.5	32.5	63.5	10	10	27	MMS-HY-03600
M1 1/16JIC-BR6 41.4	1 1/16-12	41.4	22	41	72.5	15	15	27	MMS-HY-03601
M1 5/16JIC-BR6 41.4	1 5/16-12	41.4	23.5	41.5	74	15	15	36	MMS-HY-03602
M1 5/16JIC-BR6 47.8	1 5/16-12	47.8	23	48.5	80.5	20	20	36	MMS-HY-03603
M1 5/8JIC-BR6 47.8	1 5/8-12	47.8	24	48	82	20	20	42	MMS-HY-03604
M1 5/8JIC-BR6 54.1	1 5/8-12	54.1	24	56.5	90.5	26	26	42	MMS-HY-03605
M1 7/8JIC-BR6 54.1	1 7/8-12	54.1	28	39	78.5	33.5	28	54	MMS-HY-03606
M1 7/8JIC-BR6 63.5	1 7/8-12	63.5	27	43	81.5	33	28	50	MMS-HY-03607



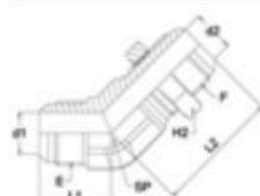
45° ADAPTOR - FEMALE SWIVEL JIC / FEMALE SWIVEL JIC

Description	E JIC	F JIC	L1 mm	L2 mm	d1 mm	d2 mm	H1 mm	H2 mm	SP	REF
FS7/16JIC-FS7/16JIC 45°	7/16-20	7/16-20	9	9	4	4	15	15	11	MMS-HY-03608
FS1/2JIC-FS1/2JIC 45°	1/2-20	1/2-20	9.5	9.5	4.5	4.5	17	17	11	MMS-HY-03609
FS9/16JIC-FS9/16JIC 45°	9/16-18	9/16-18	10.5	10.5	7	7	19	19	14	MMS-HY-03610
FS3/4JIC-FS3/4JIC 45°	3/4-16	3/4-16	21.8	21.8	9.9	9.9	22	22	19	MMS-HY-03611
FS7/8JIC-FS7/8JIC 45°	7/8-14	7/8-14	23.9	23.9	12.3	12.3	27	27	22	MMS-HY-03612
FS1 1/16JIC-FS1 1/16JIC 45°	1 1/16-12	1 1/16-12	23.8	23.8	15.5	15.5	32	32	27	MMS-HY-03613
FS1 5/16JIC-FS1 5/16JIC 45°	1 5/16-12	1 5/16-12	29.3	29.3	21.5	21.5	41	41	33	MMS-HY-03614

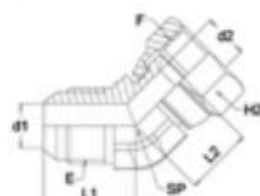


45° ADAPTOR - MALE JIC / MALE JIC

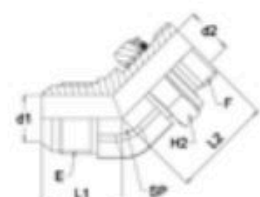
Description	E JIC	F JIC	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M7/16JIC-M7/16JIC 45°	7/16-20	7/16-20	18.3	18.3	4.4	4.4	11	MMS-HY-03615
M1/2JIC-M1/2JIC 45°	1/2-20	1/2-20	19.6	19.6	6	6	13	MMS-HY-03616
M9/16JIC-M9/16JIC 45°	9/16-18	9/16-18	21.1	21.1	7.5	7.5	14	MMS-HY-03617
M3/4JIC-M3/4JIC 45°	3/4-16	3/4-16	24.9	24.9	9.9	9.9	19	MMS-HY-03618
M7/8JIC-M7/8JIC 45°	7/8-14	7/8-14	28.2	28.2	12.3	12.3	22	MMS-HY-03619
M1 1/16JIC-M1 1/16JIC 45°	1 1/16-12	1 1/16-12	32.5	32.5	15.5	15.5	27	MMS-HY-03620

45° ADAPTOR - MALE JIC / BULKHEAD MALE JIC + LOCKNUT

Description	E JIC	F JIC	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M7/16JIC-M7/16JIC 45° BL	7/16-20	7/16-20	18.3	38.9	4.4	4.4	17	11	MMS-HY-03621
M1/2JIC-M1/2JIC 45° BL	1/2-20	1/2-20	19.6	42.2	6	6	19	13	MMS-HY-03622
M9/16JIC-M9/16JIC 45° BL	9/16-16	9/16-16	21.1	42.4	7.5	7.5	22	14	MMS-HY-03623
M3/4JIC-M3/4JIC 45° BL	3/4-16	3/4-16	24.9	49.3	9.9	9.9	24	19	MMS-HY-03624
M7/8JIC-M7/8JIC 45° BL	7/8-14	7/8-14	28.2	55.1	12.3	12.3	30	22	MMS-HY-03625
M1 1/16JIC-M1 1/16JIC 45° BL	1 1/16-12	1 1/16-12	32.5	62	15.5	15.5	36	27	MMS-HY-03626
M1 5/16JIC-M1 5/16JIC- 45° BL	1 5/16-12	1 5/16-12	37.3	65	21.5	21.5	41	33	MMS-HY-03627

45° ADAPTOR - MALE JIC / FEMALE SWIVEL JIC

Description	E JIC	F JIC	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M7/16JIC-FS7/16JIC 45°	7/16-20	7/16-20	18.3	15.2	4.4	4.4	14	11	MMS-HY-03628
M1/2JIC-FS1/2JIC 45°	1/2-20	1/2-20	19.6	15.9	6	6	17	13	MMS-HY-03629
M9/16JIC-FS9/16JIC 45°	9/16-18	9/16-18	21.1	18.9	7.5	7.5	19	14	MMS-HY-03630
M3/4JIC-FS3/4JIC 45°	3/4-16	3/4-16	24.9	21.8	9.9	9.9	22	19	MMS-HY-03631
M7/8JIC-FS7/8JIC 45°	7/8-14	7/8-14	28.2	23.9	12.3	12.3	27	22	MMS-HY-03632
M1 1/16JIC-FS1 1/16JIC 45°	1 1/16-12	1 1/16-12	32.5	23.8	15.5	15.5	32	27	MMS-HY-03633
M1 3/16JIC-FS1 3/16JIC 45°	1 3/16-12	1 3/16-12	35.5	26.6	16.5	16.5	36	27	MMS-HY-03634
M1 5/16JIC-FS1 5/16JIC 45°	1 5/16-12	1 5/16-12	37.3	29.3	21.5	21.5	41	33	MMS-HY-03635
M1 5/8JIC-FS1 5/8JIC 45°	1 5/8-12	1 5/8-12	40.4	35.7	27.5	27.5	50	41	MMS-HY-03636
M1 7/8JIC-FS1 7/8JIC 45°	1 7/8-12	1 7/8-12	45.2	38.6	33	33	55	48	MMS-HY-03637

45° ADAPTOR - MALE JIC / ADJUSTABLE MALE BSP

Description	E JIC	F GAS	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M7/16JIC-M1/8BSP OR 45°	7/16-20	1/8-19	18.3	26.5	4.4	4.4	14	12	MMS-HY-03638
M7/16JIC-M1/4BSP OR 45°	7/16-20	1/4-19	20.8	29	4.4	7.5	19	14	MMS-HY-03639
M1/2JIC-M1/4BSP OR 45°	1/2-20	1/4-19	20.8	29	6	7.5	19	14	MMS-HY-03640
M9/16JIC-M1/4BSP OR 45°	9/16-18	1/4-19	21.1	29	7.5	7.5	19	14	MMS-HY-03641
M9/16JIC-M3/8BSP OR 45°	9/16-18	3/8-19	21.1	29	7.5	7.5	19	14	MMS-HY-03642
M3/4JIC-M1/4BSP OR 45°	3/4-16	1/4-19	24.9	33	9.9	7.5	19	19	MMS-HY-03643
M3/4JIC-M3/8BSP OR 45°	3/4-16	3/8-19	24.9	33	9.9	9.9	22	19	MMS-HY-03644
M3/4JIC-M1/2BSP OR 45°	3/4-16	1/2-14	25.2	38.5	9.9	12.3	27	22	MMS-HY-03645
M7/8JIC-M1/2BSP OR 45°	7/8-14	1/2-14	28.2	38.5	12.3	12.3	27	22	MMS-HY-03646
M7/8JIC-M3/4BSP OR 45°	7/8-14	3/4-14	30.1	41	14.3	14.3	33	27	MMS-HY-03647
M1 1/16JIC-M3/4BSP OR 45°	1 1/16-12	3/4-14	32.5	44	15.5	15.5	36	27	MMS-HY-03648
M1 5/16JIC-M1 BSP OR 45°	1 5/16-12	1-11	37.3	47	21.5	21.5	41	33	MMS-HY-03649
M1 5/8JIC-M1 1/4BSP OR 45°	1 5/8-12	1 1/4-11	40.4	48	27.5	27.5	50	41	MMS-HY-03650

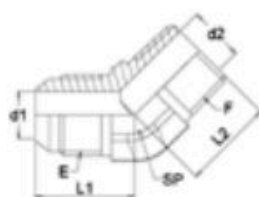
ADAPTORS TYPE JIC

45° ADAPTOR - MALE JIC / ADJUSTABLE MALE BSP

Description	E JIC	F GAS	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M1 7/8JIC-M1 1/2BPS OR 45°	1 7/8-12	1 1/2-11	45.2	48	33	33	55	48	MMS-HY-03651

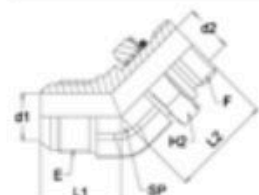
45° ADAPTOR - MALE JIC / MALE BSPT

Description	E JIC	F BSPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M7/16JIC-M1/8BSPT 45°	7/16-20	1/8-28	18.3	16	4.4	4.5	11	MMS-HY-03652
M7/16JIC-M1/4BSPT 45°	7/16-20	1/4-19	20.8	19	4.4	7	14	MMS-HY-03653
M1/2JIC-M1/4BSPT 45°	1/2-20	1/4-19	20.8	19	6	7	14	MMS-HY-03654
M9/16JIC-M1/4BSPT 45°	9/16-18	1/4-19	21.1	19	7.5	7	14	MMS-HY-03655
M9/16JIC-M3/8BSPT 45°	9/16-18	3/8-19	22.1	22	7.5	10	19	MMS-HY-03656
M9/16JIC-M1/2BSPT 45°	9/16-18	1/2-14	22.4	26	7.5	13	22	MMS-HY-03657
M3/4JIC-M1/4BSPT 45°	3/4-16	1/4-19	24.9	21	9.9	7	19	MMS-HY-03658
M3/4JIC-M3/8BSPT 45°	3/4-16	3/8-19	24.9	22	9.9	10	19	MMS-HY-03659
M3/4JIC-M3/4BSPT 45°	3/4-16	3/4-14	25.2	24	11.1	12	22	MMS-HY-03660
M7/8JIC-M1/2BSPT 45°	7/8-14	1/2-14	28.2	26	12.3	13	22	MMS-HY-03661
M1 1/16JIC-M3/4BSPT 45°	1 1/16-12	3/4-14	32.5	30	15.5	18	27	MMS-HY-03662
M1 5/16JIC-M1 BSPT 45°	1 5/16-12	1-11	37.3	34	21.5	24	33	MMS-HY-03663



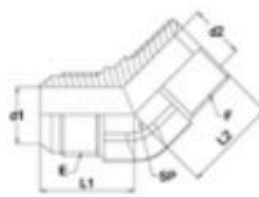
45° ADAPTOR - MALE JIC / ADJUSTABLE MALE SAE

Description	E JIC	F SAE	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M7/16JIC-M7/16UNF OR 45°	7/16-20	7/16-20	18.3	26.7	4.4	4.4	14	12	MMS-HY-03664
M1/2JIC-M1/2UNF OR 45°	1/2-20	1/2-20	19.6	26.7	6	6	17	13	MMS-HY-03665
M9/16JIC-M9/16UNF OR 45°	9/16-18	9/16-18	21.1	29	7.5	7.5	17	14	MMS-HY-03666
M9/16JIC-M3/4UNF OR 45°	9/16-18	3/4-16	22.1	33	7.5	9.9	22	19	MMS-HY-03667
M3/4JIC-M9/16UNF OR 45°	3/4-16	9/16-18	24.9	29.7	9.9	7.5	17	19	MMS-HY-03668
M3/4JIC-M3/4UNF OR 45°	3/4-16	3/4-16	24.9	33	9.9	9.9	22	19	MMS-HY-03669
M3/4JIC-M7/8UNF OR 45°	3/4-16	7/8-14	25.2	38.6	9.9	12.3	27	22	MMS-HY-03670
M7/8JIC-M3/4UNF OR 45°	7/8-14	3/4-16	28.2	34.5	12.3	9.9	22	22	MMS-HY-03671
M7/8JIC-M7/8UNF OR 45°	7/8-14	7/8-14	28.2	38.6	12.3	12.3	27	22	MMS-HY-03672
M1 1/16JIC-M7/8UNF OR 45°	1 1/16-12	7/8-14	32.5	39.8	15.5	12.3	27	27	MMS-HY-03673
M1 1/16JIC-M1 1/16UNF OR 45°	1 1/16-12	1 1/16-12	32.5	43.9	15.5	15.5	32	27	MMS-HY-03674
M1 3/16JIC-M1 3/16UNF OR 45°	1 3/16-12	1 3/16-12	35.3	45.5	16.3	16.3	36	33	MMS-HY-03675
M1 5/16JIC-M1 5/16UNF OR 45°	1 5/16-12	1 5/16-12	37.3	47.2	21.5	21.5	41	33	MMS-HY-03676
M1 5/8JIC-M1 5/8UNF OR 45°	1 5/8-12	1 5/8-12	40.4	48.5	27.5	27.5	50	41	MMS-HY-03677
M1 7/8JIC-M1 7/8UNF OR 45°	1 7/8-12	1 7/8-12	45.2	48.5	33	33	55	48	MMS-HY-03678



45° ADAPTOR - MALE JIC / MALE NPT

Description	E JIC	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M5/16JIC-M1/8NPT 45°	5/16-24	1/8-27	17	17	3.2	4.4	11	MMS-HY-03679
M3/8JIC-M1/8NPT 45°	3/8-24	1/8-27	19	17	3.2	4.4	11	MMS-HY-03680
M7/16JIC-M1/8NPT 45°	7/16-20	1/8-27	17	21.5	4.4	4.4	11	MMS-HY-03681
M7/16JIC-M1/4NPT 45°	7/16-20	1/4-18	21	22.3	4.4	6	14	MMS-HY-03682
M1/2JIC-M1/8NPT 45°	1/2-20	1/8-27	18	22.3	6	4.4	14	MMS-HY-03683
M9/16JIC-M1/8NPT 45°	9/16-18	1/8-27	17.3	22.8	7.5	5.3	14	MMS-HY-03684
M1/2JIC-M1/4NPT 45°	1/2-20	1/4-18	21	22.3	6	6	14	MMS-HY-03685
M9/16JIC-M1/4NPT 45°	9/16-18	1/4-18	21.1	21.8	7.5	6	14	MMS-HY-03686
M3/4JIC-M1/4NPT 45°	3/4-16	1/4-18	22	26.8	9.9	7.2	19	MMS-HY-03687

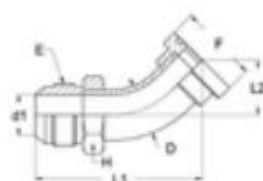


45° ADAPTOR - MALE JIC / MALE NPT

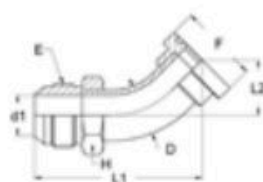
Description	E JIC	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M9/16JIC-M3/8NPT 45°	9/16-18	3/8-18	24	24	7.5	9	19	MMS-HY-03688
M3/4JIC-M3/8NPT 45°	3/4-16	3/8-18	24.9	24.1	9.9	9	19	MMS-HY-03689
M7/8JIC-M3/8NPT 45°	7/8-14	3/8-18	30	26	12.3	8.5	22	MMS-HY-03690
M9/16JIC-M1/2NPT 45°	9/16-18	1/2-14	29.5	25	7.5	12	22	MMS-HY-03691
M3/4JIC-M1/2NPT 45°	3/4-16	1/2-14	29.5	28	9.9	12	22	MMS-HY-03692
M7/8JIC-M1/2NPT 45°	7/8-14	1/2-14	29.5	31	12.3	12	22	MMS-HY-03693
M1 1/16JIC-M1/2NPT 45°	1 1/16-12	1/2-14	31	35.5	15.5	12	27	MMS-HY-03694
M3/4JIC-M3/4NPT 45°	3/4-16	3/4-14	26.4	30.5	9.9	16.5	27	MMS-HY-03695
M1 1/16JIC-M3/4NPT 45°	1 1/16-12	3/4-14	32.5	30.5	15.5	16.5	27	MMS-HY-03696
M1 3/16JIC-M3/4NPT 45°	1 3/16-12	3/4-14	35.5	30.5	18	16.5	33	MMS-HY-03697
M1 5/16JIC-M3/4NPT 45°	1 5/16-12	3/4-14	36.5	38.5	21.5	17	33	MMS-HY-03698
M1 1/16JIC-M1 NPT 45°	1 1/16-12	1-11.5	38.5	38.5	21.5	22.5	33	MMS-HY-03699
M1 5/16JIC-M1 NPT 45°	1 5/16-12	1-11.5	39	38.5	21.5	22.5	33	MMS-HY-03700
M1 5/8JIC-M1 1/4NPT 45°	1 5/8-12	1 1/4-11.5	40.4	42.4	27.5	28.5	41	MMS-HY-03701
M1 7/8JIC-M1 1/2NPT 45°	1 7/8-12	1 1/2-11.5	45.2	45	33	35	48	MMS-HY-03702

45° ADAPTOR - MALE JIC / BRIDES SAE 3000

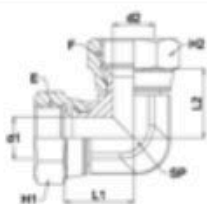
Description	E JIC	F SAE	L1 mm	L2 mm	D mm	d1 mm	H mm	REF
M3/4JIC-BR3 30.1 45°	7/8-14	30.1	75	40	14	10	22	MMS-HY-03703
M1 1/16JIC-BR3 38.1 45°	1 1/16-12	38.1	70	25	20	15	27	MMS-HY-03704
M1 5/16JIC-BR3 44.5 45°	1 5/16-12	44.5	90	45	20	15	36	MMS-HY-03705
M1 5/8JIC-BR3 50.8 45°	1 5/8-12	50.8	100	40	32	26	42	MMS-HY-03706
M1 7/8JIC-BR3 60.3 45°	1 7/8-12	60.3	94	30	38	32	50	MMS-HY-03707

**45° ADAPTOR - MALE JIC / BRIDES SAE 6000**

Description	E JIC	F SAE	L1 mm	L2 mm	D mm	d1 mm	H mm	REF
M7/8JIC-BR6 31.8 45°	7/8-14	31.8	75	35	14	10	22	MMS-HY-03708
M1 1/16JIC-BR6 41.4 45°	1 1/16-12	41.4	100	35	22	15	32	MMS-HY-03709
M1 5/16JIC-BR6 41.4 45°	1 5/16-12	41.4	40	73	20	16	36	MMS-HY-03710
M1 5/16JIC-BR6 47.8 45°	1 5/16-12	47.8	103	35	26	21	36	MMS-HY-03711
M1 5/8JIC-BR6 47.8 45°	1 5/8-12	47.8	105	45	26	20	42	MMS-HY-03712
M1 5/8JIC-BR6 54.1 45°	1 5/8-12	54.1	110	55	32	26	42	MMS-HY-03713
M1 7/8JIC-BR6 63.5 45°	1 7/8-12	63.5	150	55	38	30	50	MMS-HY-03714

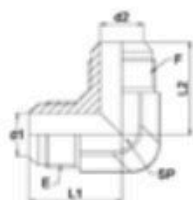
**90° ADAPTOR - FEMALE SWIVEL JIC / FEMALE SWIVEL JIC**

Description	E JIC	F JIC	L1 mm	L2 mm	d1 mm	d2 mm	H1 mm	H2 mm	SP	REF
FS7/16JIC-FS7/16JIC 90°	7/16-20	7/16-20	16.7	16.7	4.4	4.4	15	15	11	MMS-HY-03715
FS1/2JIC-FS1/2JIC 90°	1/2-20	1/2-20	17.4	17.4	6	6	17	17	13	MMS-HY-03716
FS9/16JIC-FS9/16JIC 90°	9/16-18	9/16-18	22.3	22.3	7.5	7.5	19	19	14	MMS-HY-03717
FS3/4JIC-FS3/4JIC 90°	3/4-16	3/4-16	24.4	24.4	9.9	9.9	19	22	22	MMS-HY-03718
FS7/8JIC-FS7/8JIC 90°	7/8-14	7/8-14	28.4	28.4	12.3	12.3	27	27	22	MMS-HY-03719
FS1 1/16JIC-FS1 1/16JIC 90°	1 1/16-12	1 1/16-12	30.1	30.1	15.5	15.5	32	32	27	MMS-HY-03720
FS1 3/16JIC-FS1 3/16JIC 90°	1 3/16-12	1 3/16-12	30.5	30.5	16.3	16.3	36	36	30	MMS-HY-03721
FS1 5/16JIC-FS1 5/16JIC 90°	1 5/16-12	1 5/16-12	30.5	30.5	21.2	21.2	41	41	30	MMS-HY-03722



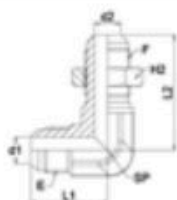
ADAPTORS TYPE JIC

90° ADAPTOR - MALE JIC / MALE JIC



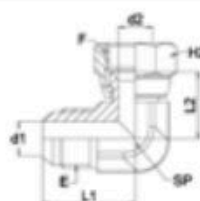
Description	E JIC	F JIC	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M7/16JIC-M7/16JIC 90°	7/16-20	7/16-20	22.6	22.6	4.4	4.4	11	MMS-HY-03723
M1/2JIC-M1/2JIC 90°	1/2-20	1/2-20	24.1	24.1	6	6	13	MMS-HY-03724
M9/16JIC-M9/16JIC 90°	9/16-18	9/16-18	26.9	26.9	7.5	7.5	14	MMS-HY-03725
M3/4JIC-M3/4JIC 90°	3/4-16	3/4-16	31.8	31.8	9.9	9.9	19	MMS-HY-03726
M7/8JIC-M7/8JIC 90°	7/8-14	7/8-14	36.8	36.8	12.3	12.3	22	MMS-HY-03727
M1 1/16JIC-M1 1/16JIC 90°	1 1/16-12	1 1/16-12	42.2	42.2	15.5	15.5	22	MMS-HY-03728
M1 3/16JIC-M1 3/16JIC 90°	1 3/16-12	1 3/16-12	45.7	45.7	18	18	33	MMS-HY-03729
M1 5/16JIC-M1 5/16JIC 90°	1 5/16-12	1 5/16-12	46	46	21.5	21.5	33	MMS-HY-03730
M1 5/8JIC-M1 5/8JIC 90°	1 5/8-12	1 5/8-12	52.3	52.3	27.5	27.5	41	MMS-HY-03731
M1 7/8JIC-M1 7/8JIC 90°	1 7/8-12	1 7/8-12	59.2	59.2	33	33	48	MMS-HY-03732

90° ADAPTOR - MALE JIC / BULKHEAD MALE JIC + LOCKNUT



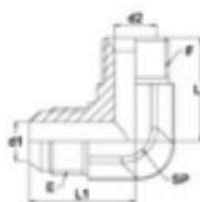
Description	E JIC	F JIC	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M7/16JIC-M7/16JIC 90° BL	7/16-20	7/16-20	24.6	40.4	4.4	4.4	17	11	MMS-HY-03733
M1/2JIC-M1/2JIC 90° BL	1/2-20	1/2-20	26.9	43.7	6	6	19	13	MMS-HY-03734
M9/16JIC-M9/16JIC 90° BL	9/16-18	9/16-18	27.7	46	7.5	7.5	22	14	MMS-HY-03735
M3/4JIC-M3/4JIC 90° BL	3/4-16	3/4-16	34.5	53.6	9.9	9.9	24	19	MMS-HY-03736
M7/8JIC-M7/8JIC 90° BL	7/8-14	7/8-14	39.6	60.7	12.3	12.3	30	22	MMS-HY-03737
M1 1/16JIC-M1 1/16JIC 90° BL	1 1/16-12	1 1/16-12	45.2	67.8	15.5	15.5	36	27	MMS-HY-03738
M1 5/16JIC-M1 5/16JIC 90° BL	1 5/16-12	1 5/16-12	49.3	71.1	21.5	21.5	41	33	MMS-HY-03739
M1 5/8JIC-M1 5/8JIC 90° BL	1 5/8-12	1 5/8-12	55.1	79.2	27.5	27.5	50	41	MMS-HY-03740
M1 7/8JIC-M1 7/8JIC 90° BL	1 7/8-12	1 7/8-12	59.4	86.9	33	33	55	48	MMS-HY-03741

90° ADAPTOR - MALE JIC / FEMALE SWIVEL JIC

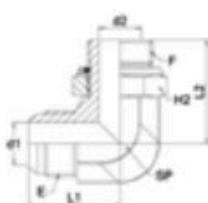


Description	E JIC	F JIC	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M7/16JIC-FS7/16JIC 90°	7/16-20	7/16-20	22.6	16.7	4.4	4.4	14	11	MMS-HY-03742
M1/2JIC-FS1/2JIC 90°	1/2-20	1/2-20	24.1	17.4	6	6	17	13	MMS-HY-03743
M9/16JIC-FS9/16JIC 90°	9/16-18	9/16-18	26.9	22.3	7.5	7.5	19	14	MMS-HY-03744
M3/4JIC-FS3/4JIC 90°	3/4-16	3/4-16	31.8	24.4	9.9	9.9	22	19	MMS-HY-03745
M7/8JIC-FS7/8JIC 90°	7/8-14	7/8-14	36.8	28.4	12.3	12.3	27	22	MMS-HY-03746
M1 1/16JIC-FS1 1/16JIC 90°	1 1/16-12	1 1/16-12	42.2	30.1	15.5	15.5	32	27	MMS-HY-03747
M1 3/16JIC-FS1 3/16JIC 90°	1 3/16-12	1 3/16-12	43.5	31.1	16.3	16.3	36	33	MMS-HY-03748
M1 5/16JIC-FS1 5/16JIC 90°	1 5/16-12	1 5/16-12	46	35.7	21.5	21.5	41	33	MMS-HY-03749
M1 5/8JIC-FS1 5/8JIC 90°	1 5/8-12	1 5/8-12	52.3	42.8	27.5	27.5	50	41	MMS-HY-03750
M1 7/8JIC-FS1 7/8JIC 90°	1 7/8-12	1 7/8-12	59.2	47.2	33	33	55	48	MMS-HY-03751

90° ADAPTOR - MALE JIC / MALE BSP 60°



Description	E JIC	F BSP	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M7/16JIC-M1/4BSP 90°	7/16-20	1/4-19	26.6	26	4.4	4.7	14	MMS-HY-03752
M1/2JIC-M1/4BSP 90°	1/2-20	1/4-19	26.6	26	6	4.7	14	MMS-HY-03753
M9/16JIC-M3/8BSP 90°	9/16-18	3/8-19	29	30	7.5	7.9	19	MMS-HY-03754
M3/4JIC-M1/2BSP 90°	3/4-16	1/2-14	33.8	35	9.9	11.1	22	MMS-HY-03755
M7/8JIC-M1/2BSP 90°	7/8-14	1/2-14	36.8	35	12.3	11.1	22	MMS-HY-03756
M1 1/16JIC-M3/4BSP 90°	1 1/16-12	3/4-14	42.2	42	15.5	16.7	27	MMS-HY-03757
M1 5/16JIC-M1 BSP 90°	1 5/16-12	1-11	46	47	21.5	22.2	33	MMS-HY-03758

90° ADAPTOR - MALE JIC / ADJUSTABLE MALE BSP


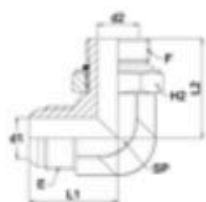
Description	E JIC	F BSP	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M7/16JIC-M1/8BSP OR 90°	7/16-20	1/8-28	22.6	26.5	4.4	4.4	14	11	MMS-HY-03759
M7/16JIC-M1/4BSP OR 90°	7/16-20	1/4-19	26.6	32	4.4	7.5	19	14	MMS-HY-03760
M7/16JIC-M3/8BSP OR 90°	7/16-20	3/8-19	28.5	37	4.4	9.9	22	19	MMS-HY-03761
M1/2JIC-M1/8BSP OR 90°	1/2-20	1/8-28	24.1	26.5	6	4.4	14	14	MMS-HY-03762
M1/2JIC-M1/4BSP OR 90°	1/2-20	1/4-19	26.6	32	6	7.5	19	14	MMS-HY-03763
M1/2JIC-M3/8BSP OR 90°	1/2-20	3/8-19	28.5	37	6	9.9	22	19	MMS-HY-03764
M9/16JIC-M1/4BSP OR 90°	9/16-18	1/4-19	26.9	32	7.5	7.5	19	14	MMS-HY-03765
M9/16JIC-M3/8BSP OR 90°	9/16-18	3/8-19	29	37	7.5	9.9	22	19	MMS-HY-03766
M9/16JIC-M1/2BSP OR 90°	9/16-18	1/2-14	31	43	7.5	12.3	27	22	MMS-HY-03767
M3/4JIC-M1/4BSP OR 90°	3/4-16	1/4-19	31.8	34.2	9.9	7.5	19	19	MMS-HY-03768
M3/4JIC-M3/8BSP OR 90°	3/4-16	3/8-19	31.8	37	9.9	9.9	22	19	MMS-HY-03769
M3/4JIC-M1/2BSP OR 90°	3/4-16	1/2-14	33.8	43	9.9	12.3	27	22	MMS-HY-03770
M3/4JIC-M3/4BSP OR 90°	3/4-16	3/4-14	36.1	49.5	9.9	15.5	36	27	MMS-HY-03771
M7/8JIC-M3/8BSP OR 90°	7/8-14	3/8-19	36.8	37	12.3	9.9	22	22	MMS-HY-03772
M7/8JIC-M1/2BSP OR 90°	7/8-14	1/2-14	36.8	43	12.3	12.3	27	22	MMS-HY-03773
M7/8JIC-M3/4BSP OR 90°	7/8-14	3/4-14	39.2	49.5	12.3	15.5	36	27	MMS-HY-03774
M1 1/16JIC-M1/2BSP OR 90°	1 1/16-12	1/2-14	42.2	49.5	15.5	12.3	27	27	MMS-HY-03775
M1 1/16JIC-M3/4BSP OR 90°	1 1/16-12	3/4-14	42.2	49.5	15.5	15.5	36	27	MMS-HY-03776
M1 1/16JIC-M1 BSP OR 90°	1 1/16-12	1-11	44.7	52	15.5	21.5	41	33	MMS-HY-03777
M1 5/16JIC-M3/4BSP OR 90°	1 5/16-12	3/4-14	46	49.5	21.5	15.5	36	33	MMS-HY-03778
M1 5/16JIC-M1 BSP OR 90°	1 5/16-12	1-11	46	52	21.5	21.5	41	33	MMS-HY-03779
M1 5/8JIC-M1 BSP OR 90°	1 5/8-12	1-11	52.3	57	27.5	21.5	41	41	MMS-HY-03780
M1 5/8JIC-M1 1/4BSP OR 90°	1 5/8-12	1 1/4-11	52.3	57	27.5	27.5	50	41	MMS-HY-03781
M1 7/8JIC-M1 1/4BSP OR 90°	1 7/8-12	1 1/4-11	62.5	63	33	27.5	50	48	MMS-HY-03782

90° ADAPTOR - MALE JIC / MALE BSPT


Description	E JIC	F BSPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M7/16JIC-M1/8BSPT 90°	7/16-20	1/8-28	22.6	20	4.4	4.5	11	MMS-HY-03783
M7/16JIC-M1/4BSPT 90°	7/16-20	1/4-19	26.6	26	4.4	7	14	MMS-HY-03784
M1/2JIC-M1/4BSPT 90°	1/2-20	1/4-19	26.6	26	6	7	14	MMS-HY-03785
M9/16JIC-M1/4BSPT 90°	9/16-18	1/4-19	26.9	26	7.5	7	14	MMS-HY-03786
M3/4JIC-M1/4BSPT 90°	3/4-16	1/4-19	31.8	29	9.9	7	19	MMS-HY-03787
M9/16JIC-M3/8BSPT 90°	9/16-18	3/8-19	29	30	7.5	10	19	MMS-HY-03788
M3/4JIC-M3/8BSPT 90°	3/4-16	3/8-19	31.8	30	9.9	10	19	MMS-HY-03789
M7/8JIC-M3/8BSPT 90°	7/8-14	3/8-19	36.8	32	12.3	10	22	MMS-HY-03790
M9/16JIC-M1/2BSPT 90°	9/16-18	1/2-14	31	36	7.5	13	22	MMS-HY-03791
M3/4JIC-M1/2BSPT 90°	3/4-16	1/2-14	33.8	36	9.9	13	22	MMS-HY-03792
M7/8JIC-M1/2BSPT 90°	7/8-14	1/2-14	36.8	36	12.3	13	22	MMS-HY-03793
M1 1/16JIC-M1/2BSPT 90°	1 1/16-12	1/2-14	42.2	42	15.5	13	27	MMS-HY-03794
M7/8JIC-M3/4BSPT 90°	7/8-14	3/4-14	39.2	43	12.3	18	27	MMS-HY-03795
M1 1/16JIC-M3/4BSPT 90°	1 1/16-12	3/4-14	42.2	43	15.5	18	27	MMS-HY-03796
M1 5/16JIC-M3/4BSPT 90°	1 5/16-12	3/4-14	46	46	21.5	18	33	MMS-HY-03797
M1 5/16JIC-M1 BSPT 90°	1 5/16-12	1-11	46	50	21.5	24	33	MMS-HY-03798
M1 5/8JIC-M1 BSPT 90°	1 5/8-12	1-11	52.3	57	27.5	24	41	MMS-HY-03799
M1 5/8JIC-M1 1/4BSPT 90°	1 5/8-12	1 1/4-11	52.3	58	27.5	31	41	MMS-HY-03800
M1 7/8JIC-M1 1/2BSPT 90°	1 7/8-12	1 1/2-11	59.2	63	33	38	48	MMS-HY-03801

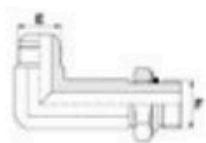
ADAPTORS TYPE JIC

90° ADAPTOR - MALE JIC / ADJUSTABLE MALE SAE



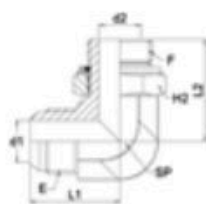
Description	E JIC	F SAE	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M7/16JIC-M7/16UNF OR 90°	7/16-20	7/16-20	22.6	26.2	4.4	4.4	14	11	MMS-HY-03802
M7/16JIC-M1/2UNF OR 90°	7/16-20	1/2-20	24.1	28.7	4.4	6	17	13	MMS-HY-03803
M7/16JIC-M9/16UNF OR 90°	7/16-20	9/16-18	26.6	31.8	4.4	7.5	17	14	MMS-HY-03804
M1/2JIC-M1/2UNF OR 90°	1/2-20	1/2-20	24.1	28.7	6	6	17	13	MMS-HY-03805
M1/2JIC-M9/16UNF OR 90°	1/2-20	9/16-18	26.6	31.8	6	7.5	17	14	MMS-HY-03806
M9/16JIC-M7/16UNF OR 90°	9/16-18	7/16-20	26.9	30.3	7.5	4.4	14	14	MMS-HY-03807
M9/16JIC-M1/2UNF OR 90°	9/16-18	1/2-20	26.9	30.3	7.5	6	17	14	MMS-HY-03808
M9/16JIC-M9/16UNF OR 90°	9/16-18	9/16-18	26.9	31.8	7.5	7.5	17	14	MMS-HY-03809
M9/16JIC-M3/4UNF OR 90°	9/16-18	3/4-16	29	36.8	7.5	9.9	22	19	MMS-HY-03810
M9/16JIC-M7/8UNF OR 90°	9/16-18	7/8-14	31	43.2	7.5	12.3	27	22	MMS-HY-03811
M3/4JIC-M9/16UNF OR 90°	3/4-16	9/16-18	31.8	33.5	9.9	7.5	17	19	MMS-HY-03812
M3/4JIC-M3/4UNF OR 90°	3/4-16	3/4-16	31.8	36.8	9.9	9.9	22	19	MMS-HY-03813
M3/4JIC-M7/8UNF OR 90°	3/4-16	7/8-14	33.8	43.2	9.9	12.3	27	22	MMS-HY-03814
M3/4JIC-M1 1/16UNF OR 90°	3/4-16	1 1/16-12	36.1	49.3	9.9	15.5	32	27	MMS-HY-03815
M7/8JIC-M3/4UNF OR 90°	7/8-14	3/4-16	36.8	39.1	12.3	9.9	22	22	MMS-HY-03816
M7/8JIC-M7/8UNF OR 90°	7/8-14	7/8-14	36.8	43.2	12.3	12.3	27	22	MMS-HY-03817
M7/8JIC-M1 1/16UNF OR 90°	7/8-14	1 1/16-12	39.2	49.3	12.3	15.5	32	27	MMS-HY-03818
M1 1/16JIC-M3/4UNF OR 90°	1 1/16-12	3/4-16	42.2	41.2	15.5	9.9	22	27	MMS-HY-03819
M1 1/16JIC-M7/8UNF OR 90°	1 1/16-12	7/8-14	42.2	45.5	15.5	12.3	27	27	MMS-HY-03820
M1 1/16JIC-M1 1/16UNF OR 90°	1 1/16-12	1 1/16-12	42.2	49.3	15.5	15.5	32	27	MMS-HY-03821
M1 5/16JIC-M1 1/16UNF OR 90°	1 5/16-12	1 1/16-12	46	52.1	21.5	15.5	32	33	MMS-HY-03822
M1 5/16JIC-M1 5/16UNF OR 90°	1 5/16-12	1 5/16-12	46	52.1	21.5	21.5	41	33	MMS-HY-03823
M1 5/8JIC-M1 5/8UNF OR 90°	1 5/8-12	1 5/8-12	52.3	57.2	27.5	27.5	50	41	MMS-HY-03824
M1 7/8JIC-M1 7/8UNF OR 90°	1 7/8-12	1 7/8-12	59.2	60.7	33	33	55	48	MMS-HY-03825

90° ADAPTOR - MALE JIC / ADJUSTABLE MALE SAE LONG



Description	E JIC	F SAE	REF
M7/16JIC-M7/16UNF OR 90° LONG	7/16-20	7/16-20	MMS-HY-03826
M9/16JIC-M9/16UNF OR 90° LONG	9/16-18	9/16-18	MMS-HY-03827
M3/4JIC-M3/4UNF OR 90° LONG	3/4-16	3/4-16	MMS-HY-03828
M7/8JIC-M7/8UNF OR 90° LONG	7/8-14	7/8-14	MMS-HY-03829
M1 1/16JIC-M1 1/16UNF OR 90° LONG	1 1/16-12	1 1/16-12	MMS-HY-03830
M1 5/16JIC-M1 5/16UNF OR 90° LONG	1 5/16-12	1 5/16-12	MMS-HY-03831

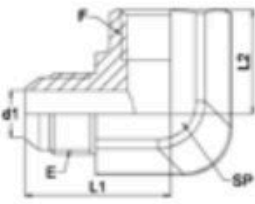
90° ADAPTOR - MALE JIC / ADJUSTABLE MALE METRIC



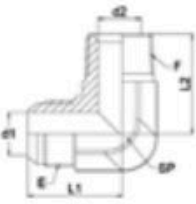
Description	E JIC	F Metric	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M7/16JIC-MM10x1 OR 90°	7/16-20	M10x1	22.6	26.6	4.4	4.5	14	11	MMS-HY-03832
M7/16JIC-MM12x1.5 OR 90°	7/16-20	M12x1.5	22.6	31.6	4.4	6	17	13	MMS-HY-03833
M1/2JIC-MM12x1.5 OR 90°	1/2-20	M12x1.5	24.1	31.6	6	6	17	13	MMS-HY-03834
M9/16JIC-MM14x1.5 OR 90°	9/16-18	M14x1.5	26.9	34.6	7.5	7.5	19	14	MMS-HY-03835
M9/16JIC-MM16x1.5 OR 90°	9/16-18	M16x1.5	29	38.1	7.5	9	22	19	MMS-HY-03836
M9/16JIC-MM18x1.5 OR 90°	9/16-18	M18x1.5	31.8	38.1	7.5	9	22	19	MMS-HY-03837
M3/4JIC-MM16x1.5 OR 90°	3/4-16	M16x1.5	31.8	38.1	9.9	9	22	19	MMS-HY-03838
M3/4JIC-MM18x1.5 OR 90°	3/4-16	M18x1.5	31.8	39.1	9.9	11	24	19	MMS-HY-03839
M7/8JIC-MM18x1.5 OR 90°	7/8-14	M18x1.5	36.8	40.3	12.3	11	24	22	MMS-HY-03840
M7/8JIC-MM20x1.5 OR 90°	7/8-14	M20x1.5	36.8	41.3	12.3	12	27	22	MMS-HY-03841
M7/8JIC-MM22x1.5 OR 90°	7/8-14	M22x1.5	36.8	41.3	12.3	14	27	22	MMS-HY-03842

90° ADAPTOR - MALE JIC / ADJUSTABLE MALE METRIC

Description	E JIC	F Metric	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M1 1/16JIC-MM22x1.5 OR 90°	1 1/16-12	M22x1.5	42.2	44.8	15.5	14	27	27	MMS-HY-03843
M1 1/16JIC-MM27x2 OR 90°	1 1/16-12	M27x2	42.2	49.8	15.5	18	32	27	MMS-HY-03844
M1 5/16JIC-MM33x2 OR 90°	1 5/16-12	M33x2	46	51.8	21.5	23	41	33	MMS-HY-03845

90° ADAPTOR - MALE JIC / FEMALE NPT


Description	E JIC	F NPT	L1 mm	L2 mm	d1 mm	SP	REF
M7/16JIC-F1/8NPT 90°	7/16-20	1/8-27	27.4	16.8	4.4	14	MMS-HY-03846
M7/16JIC-F1/4NPT 90°	7/16-20	1/4-18	30.9	22.4	4.4	19	MMS-HY-03847
M1/2JIC-F1/8NPT 90°	1/2-20	1/8-27	30.9	16.8	6	19	MMS-HY-03848
M1/2JIC-F1/4NPT 90°	1/2-20	1/4-18	30.9	22.4	6	19	MMS-HY-03849
M9/16JIC-F1/8NPT 90°	9/16-18	1/8-27	31.2	16.8	7.5	19	MMS-HY-03850
M9/16JIC-F1/4NPT 90°	9/16-18	1/4-18	31.2	22.4	7.5	19	MMS-HY-03851
M9/16JIC-F3/8NPT 90°	9/16-18	3/8-18	33.3	25.9	7.5	22	MMS-HY-03852
M3/4JIC-F1/4NPT 90°	3/4-16	1/4-18	36.1	22.4	9.9	22	MMS-HY-03853
M3/4JIC-F3/8NPT 90°	3/4-16	3/8-18	36.1	25.9	9.9	22	MMS-HY-03854
M3/4JIC-F1/2NPT 90°	3/4-16	1/2-14	38.7	31.2	9.9	27	MMS-HY-03855
M7/8JIC-F1/2NPT 90°	7/8-14	1/2-14	41.7	31.2	12.3	27	MMS-HY-03856
M1 1/16JIC-F1/2NPT 90°	1 1/16-12	1/2-14	48	34.2	15.5	27	MMS-HY-03857
M1 1/16JIC-F3/4NPT 90°	1 1/16-12	3/4-14	48	34.5	15.5	33	MMS-HY-03858
M1 3/16JIC-F3/4NPT 90°	1 3/16-12	3/4-14	50	34.5	16.3	33	MMS-HY-03859
M1 5/16JIC-F1 NPT 90°	1 5/16-12	1-11.5	55.1	41.1	21.5	41	MMS-HY-03860
M1 5/8JIC-F1 1/4NPT 90°	1 5/8-12	1 1/4-11.5	59.2	43.2	27.5	48	MMS-HY-03861
M1 7/8JIC-F1 1/2NPT 90°	1 7/8-12	1 1/2-11.5	73.4	52.8	33	65	MMS-HY-03862

90° ADAPTOR - MALE JIC / MALE NPT


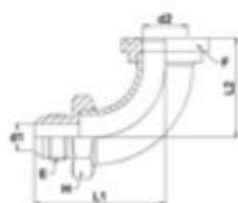
Description	E JIC	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M5/16JIC-M1/8NPT 90°	5/16-24	1/8-27	19.6	20	1.6	4.5	11	MMS-HY-03863
M3/8JIC-M1/8NPT 90°	3/8-24	1/8-27	21.1	20	3.5	4.5	11	MMS-HY-03864
M7/16JIC-M1/8NPT 90°	7/16-20	1/8-27	22.6	20	4.4	4.5	11	MMS-HY-03865
M1/2JIC-M1/8NPT 90°	1/2-20	1/8-27	24.1	20	6	4.5	13	MMS-HY-03866
M9/16JIC-M1/8NPT 90°	9/16-18	1/8-27	26.9	22	7.5	4.5	14	MMS-HY-03867
M7/16JIC-M1/4NPT 90°	7/16-20	1/4-18	26.6	26	4.4	7	14	MMS-HY-03868
M1/2JIC-M1/4NPT 90°	1/2-20	1/4-18	26.6	26	6	7	14	MMS-HY-03869
M9/16JIC-M1/4NPT 90°	9/16-18	1/4-18	26.9	26	7.5	7	14	MMS-HY-03870
M3/4JIC-M1/4NPT 90°	3/4-16	1/4-18	31.8	29	9.9	7	19	MMS-HY-03871
M7/16JIC-M3/8NPT 90°	7/16-20	3/8-18	28.5	30	4.4	10	19	MMS-HY-03872
M9/16JIC-M3/8NPT 90°	9/16-18	3/8-18	29	30	7.5	10	18	MMS-HY-03873
M3/4JIC-M3/8NPT 90°	3/4-16	3/8-18	31.8	30	9.9	10	19	MMS-HY-03874
M7/8JIC-M3/8NPT 90°	7/8-14	3/8-18	36.8	32	12.3	10	22	MMS-HY-03875
M9/16JIC-M1/2NPT 90°	9/16-18	1/2-14	31	36	7.5	13	22	MMS-HY-03876
M3/4JIC-M1/2NPT 90°	3/4-16	1/2-14	33.8	36	9.9	13	22	MMS-HY-03877
M7/8JIC-M1/2NPT 90°	7/8-14	1/2-14	36.8	36	12.3	13	27	MMS-HY-03878
M1 1/16JIC-M1/2NPT 90°	1 1/16-12	1/2-14	42.2	42	15.5	13	27	MMS-HY-03879
M3/4JIC-M3/4NPT 90°	3/4-16	3/4-14	36.1	43	9.9	18	27	MMS-HY-03880
M7/8JIC-M3/4NPT 90°	7/8-14	3/4-14	39.2	43	12.3	18	27	MMS-HY-03881
M1 1/16JIC-M3/4NPT 90°	1 1/16-12	3/4-14	42.2	43	15.5	18	27	MMS-HY-03882
M1 5/16JIC-M3/4NPT 90°	1 5/16-12	3/4-14	46	46	21.5	18	33	MMS-HY-03883
M1 1/16JIC-M1 NPT 90°	1 1/16-12	1-11.5	44.7	50	15.5	24	33	MMS-HY-03884

ADAPTORS TYPE JIC

90° ADAPTOR - MALE JIC / MALE NPT

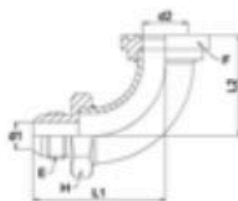
Description	E JIC	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M1 5/16JIC-M1 NPT 90°	1 5/16-12	1-11.5	46	50	21.5	24	33	MMS-HY-03885
M1 5/8JIC-M1 NPT 90°	1 5/8-12	1-11.5	52.3	57	27.5	24	41	MMS-HY-03886
M1 5/8JIC-M1 1/4NPT 90°	1 5/8-12	1 1/4-11.5	52.3	57	27.5	24	41	MMS-HY-03887
M1 7/8JIC-M1 1/2NPT 90°	1 7/8-12	1 1/2-11.5	59.2	63	33	38	48	MMS-HY-03888
M2 1/2JIC-M2 NPT 90°	2 1/2-12	2-11.5	77.7	75	45	49	65	MMS-HY-03889

90° ADAPTOR - MALE JIC / BRIDES SAE 3000



Description	E JIC	F SAE	L1 mm	L2 mm	d1 mm	d2 mm	H mm	REF
M3/4JIC-BR3 30.1 90°	7/8-14	30.1	48	59	10	10	22	MMS-HY-03890
M1 1/16JIC-BR3 38.1 90°	1 1/16-12	38.1	65	47	15.5	15	27	MMS-HY-03891
M1 5/16JIC-BR3 44.5 90°	1 5/16-12	44.5	74	58	20	20	36	MMS-HY-03892
M1 5/8JIC-BR3 50.8 90°	1 5/8-12	50.8	78	58	26	26	46	MMS-HY-03893
M1 5/8JIC-BR3 60.3 90°	1 5/8-12	60.3	97	77.5	26	32	46	MMS-HY-03894
M1 7/8JIC-BR3 60.3 90°	1 7/8-12	60.3	101	76	32	32	50	MMS-HY-03895

90° ADAPTOR - MALE JIC / BRIDES SAE 6000

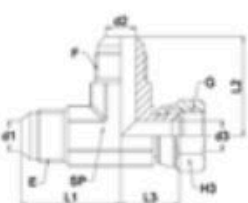


Description	E JIC	F SAE	L1 mm	L2 mm	d1 mm	d2 mm	H mm	REF
M7/8JIC-BR6 31.8 90°	7/8-14	31.8	48	59	10	10	22	MMS-HY-03896
M1 1/16JIC-BR6 31.8 90°	1 1/16-12	31.8	65	47	12	12	22	MMS-HY-03897
M1 1/16JIC-BR6 41.4 90°	1 1/16-12	41.4	63	52	16	16	27	MMS-HY-03898
M1 5/16JIC-BR6 41.4 90°	1 5/16-12	41.4	65	78	16	16	36	MMS-HY-03899
M1 5/16JIC-BR6 47.8 90°	1 5/16-12	47.8	75	61	20	20	36	MMS-HY-03900
M1 5/8JIC-BR6 47.8 90°	1 5/8-12	47.8	76	63	20	20	42	MMS-HY-03901
M1 5/8JIC-BR6 54.1 90°	1 5/8-12	54.1	88	78	32	32	50	MMS-HY-03902
M1 7/8JIC-BR6 54.1 90°	1 7/8-12	54.1	95	76	26	26	50	MMS-HY-03903
M1 7/8JIC-BR6 63.5 90°	1 7/8-12	63.5	98	88	32	32	50	MMS-HY-03904

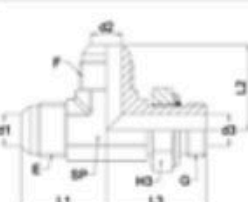
L ADAPTOR - MALE JIC / FEMALE SWIVEL JIC / FEMALE SWIVEL JIC



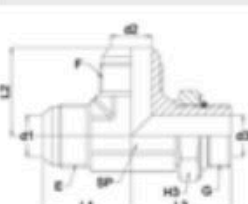
Description	E JIC	F JIC	G JIC	REF
M7/16JIC-FS7/16JIC-FS7/16JIC	7/16-20	7/16-20	7/16-20	MMS-HY-03905
M1/2JIC-FS1/2JIC-FS1/2JIC	1/2-20	1/2-20	1/2-20	MMS-HY-03906
M9/16JIC-FS9/16JIC-FS9/16JIC	9/16-18	9/16-18	9/16-18	MMS-HY-03907
M3/4JIC-FS3/4JIC-FS3/4JIC	3/4-16	3/4-16	3/4-16	MMS-HY-03908
M7/8JIC-FS7/8JIC-FS7/8JIC	7/8-14	7/8-14	7/8-14	MMS-HY-03909
M1 1/16JIC-FS1 1/16JIC-FS1 1/16JIC	1 1/16-12	1 1/16-12	1 1/16-12	MMS-HY-03910

L ADAPTOR - MALE JIC / MALE JIC / FEMALE SWIVEL JIC


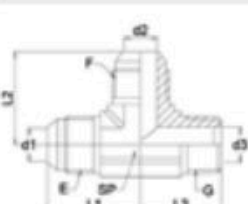
Description	E JIC	F JIC	G JIC	L1 mm	L2 mm	L3 mm	SP	REF
M7/16JIC-M7/16JIC-FS7/16JIC	7/16-20	7/16-20	7/16-20	22.6	22.6	16.7	11	MMS-HY-03911
M1/2JIC-M1/2JIC-FS1/2JIC	1/2-20	1/2-20	1/2-20	24.1	24.1	17.4	13	MMS-HY-03912
M9/16JIC-M9/16JIC-FS9/16JIC	9/16-18	9/16-18	9/16-18	26.9	26.9	22.3	14	MMS-HY-03913
M3/4JIC-M3/4JIC-FS3/4JIC	3/4-16	3/4-16	3/4-16	31.8	31.8	24.4	19	MMS-HY-03914
M7/8JIC-M7/8JIC-FS7/8JIC	7/8-14	7/8-14	7/8-14	36.8	36.8	28.4	22	MMS-HY-03915
M1 1/16JIC-M1 1/16JIC-FS1 1/16JIC	1 1/16-12	1 1/16-12	1 1/16-12	42.2	42.2	30.1	27	MMS-HY-03916
M1 3/16JIC-M1 3/16JIC-FS1 3/16JIC	1 3/16-12	1 3/16-12	1 3/16-12	45.7	45.7	30.5	33	MMS-HY-03917
M1 5/16JIC-M1 5/16JIC-FS1 5/16JIC	1 5/16-12	1 5/16-12	1 5/16-12	46	46	35.7	33	MMS-HY-03918
M1 5/8JIC-M1 5/8JIC-FS1 5/8JIC	1 5/8-12	1 5/8-12	1 5/8-12	52.3	52.3	42.8	41	MMS-HY-03919
M1 7/8JIC-M1 7/8JIC-FS1 7/8JIC	1 7/8-12	1 7/8-12	1 7/8-12	59.2	59.2	47.2	48	MMS-HY-03920

L ADAPTOR - MALE JIC / MALE JIC / ADJUSTABLE MALE BSP


Description	F GAS	E JIC	F JIC	L1 mm	L2 mm	L3 mm	H3 mm	SP	REF
M7/16JIC-M7/16JIC-M1/8BSP OR	1/8-28	7/16-20	7/16-20	22.6	22.6	26.5	14	11	MMS-HY-03921
M1/2JIC-M1/2JIC-M1/8BSP OR	1/8-28	1/2-20	1/2-20	24.1	24.1	26.5	14	13	MMS-HY-03922
M1/2JIC-M1/2JIC-M1/4BSP OR	1/4-19	1/2-20	1/2-20	26.6	26.6	32	19	14	MMS-HY-03923
M9/16JIC-M9/16JIC-M1/4BSP OR	1/4-19	9/16-18	9/16-18	26.9	26.9	32	19	14	MMS-HY-03924
M9/16JIC-M9/16JIC-M3/8BSP OR	3/8-19	9/16-18	9/16-18	29	29	37	22	19	MMS-HY-03925
M3/4JIC-M3/4JIC-M3/8BSP OR	3/8-19	3/4-16	3/4-16	32	32	36.8	22	19	MMS-HY-03926
M3/4JIC-M3/4JIC-M1/2BSP OR	1/2-14	3/4-16	3/4-16	33.8	33.8	43	27	22	MMS-HY-03927
M7/8JIC-M7/8JIC-M1/2BSP OR	1/2-14	7/8-14	7/8-14	36.8	36.8	43	27	22	MMS-HY-03928
M7/8JIC-M7/8JIC-M3/4BSP OR	3/4-14	7/8-14	7/8-14	36.8	36.8	42.2	36	27	MMS-HY-03929
M1 1/16JIC-M1 1/16JIC-M3/4BSP OR	3/4-14	1 1/16-12	1 1/16-12	42.2	42.2	49.5	36	27	MMS-HY-03930
M1 1/16JIC-M1 1/16JIC-M1 BSP OR	1-11	1 1/16-12	1 1/16-12	44.7	44.7	52	41	33	MMS-HY-03931
M1 5/16JIC-M1 5/16JIC-M1 BSP OR	1-11	1 5/16-12	1 5/16-12	46	46	52	41	33	MMS-HY-03932

L ADAPTOR - MALE JIC / MALE JIC / ADJUSTABLE MALE SAE


Description	E JIC	F JIC	G SAE	L1 mm	L2 mm	L3 mm	H3 mm	SP	REF
M7/16JIC-M7/16JIC-M7/16UNF OR	7/16-20	7/16-20	7/16-20	24.5	24.5	27.2	17	11	MMS-HY-03933
M1/2JIC-M1/2JIC-M1/2UNF OR	1/2-20	1/2-20	1/2-20	26.6	26.6	29	17	14	MMS-HY-03934
M9/16JIC-M9/16JIC-M9/16UNF OR	9/16-18	9/16-18	9/16-18	26.9	26.9	31.8	19	14	MMS-HY-03935
M3/4JIC-M3/4JIC-M3/4UNF OR	3/4-16	3/4-16	3/4-16	33	33	36.9	24	19	MMS-HY-03936
M7/8JIC-M7/8JIC-M7/8UNF OR	7/8-14	7/8-14	7/8-14	37.8	37.8	44	27	22	MMS-HY-03937
M1 1/16JIC-M1 1/16JIC-M1 1/16UNF OR	1 1/16-12	1 1/16-12	1 1/16-12	44.2	44.2	51	32	27	MMS-HY-03938
M1 5/16JIC-M1 5/16JIC-M1 5/16UNF OR	1 5/16-12	1 5/16-12	1 5/16-12	48.8	48.8	57.2	50	41	MMS-HY-03939

L ADAPTOR - MALE JIC / MALE JIC / MALE NPT


Description	E JIC	F JIC	G NPT	L1 mm	L2 mm	L3 mm	SP	REF
M7/16JIC-M7/16JIC-M1/8NPT	7/16-20	7/16-20	1/8-27	22.6	22.6	19.8	11	MMS-HY-03940
M7/16JIC-M7/16JIC-M1/4NPT	7/16-20	7/16-20	1/4-18	26.6	26.6	27.7	14	MMS-HY-03941
M1/2JIC-M1/2JIC-M1/8NPT	1/2-20	1/2-20	1/8-27	24.1	24.1	19.8	13	MMS-HY-03942
M9/16JIC-M9/16JIC-M1/8NPT	9/16-18	9/16-18	1/8-27	26.9	26.9	22.9	14	MMS-HY-03943
M9/16JIC-M9/16JIC-M1/4NPT	9/16-18	9/16-18	1/4-18	26.9	26.9	27.7	14	MMS-HY-03944
M9/16JIC-M9/16JIC-M3/8NPT	9/16-18	9/16-18	3/8-18	29	29	31	19	MMS-HY-03945
M3/4JIC-M3/4JIC-M3/8NPT	3/4-16	3/4-16	3/8-18	31.8	31.8	31	19	MMS-HY-03946
M3/4JIC-M3/4JIC-M1/2NPT	3/4-16	3/4-16	1/2-14	33.8	33.8	37.3	22	MMS-HY-03947

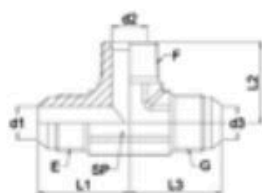
ADAPTORS TYPE JIC

L ADAPTOR - MALE JIC / MALE JIC / MALE NPT

Description	E JIC	F JIC	G NPT	L1 mm	L2 mm	L3 mm	SP	REF
M7/8JIC-M7/8JIC-M1/2NPT	7/8-14	7/8-14	1/2-14	36.8	36.8	37.3	22	MMS-HY-03948
M7/8JIC-M7/8JIC-M3/4NPT	7/8-14	7/8-14	3/4-14	39.2	39.2	40.4	27	MMS-HY-03949
M1 1/16JIC-M1 1/16JIC-M3/4NPT	1 1/16-12	1 1/16-12	3/4-14	42.2	42.2	40.4	27	MMS-HY-03950
M1 5/16JIC-M1 5/16JIC-M1 NPT	1 5/16-12	1 5/16-12	1-11	46	46	50	33	MMS-HY-03951
M1 5/8JIC-M1 5/8JIC-M1 1/4NPT	1 5/8-12	1 5/8-12	1 1/4-11.5	52.3	52.3	60.5	41	MMS-HY-03952

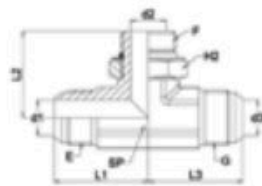
T ADAPTOR - MALE JIC / MALE NPT / MALE JIC

Description	E JIC	F NPT	G JIC	L1 mm	L2 mm	L3 mm	SP	REF
M7/16JIC-M1/8NPT-M7/16JIC	7/16-20	1/8-27	7/16-20	22.6	19.8	22.6	11	MMS-HY-03953
M7/16JIC-M1/4NPT-M7/16JIC	7/16-20	1/4-18	7/16-20	26.6	27.7	26.6	14	MMS-HY-03954
M1/2JIC-M1/8NPT-M1/2JIC	1/2-20	1/8-27	1/2-20	24.1	19.8	24.1	13	MMS-HY-03955
M1/2JIC-M1/4NPT-M1/2JIC	1/2-20	1/4-18	1/2-20	26.6	27.7	26.6	14	MMS-HY-03956
M9/16JIC-M1/4NPT-M1/4JIC	9/16-18	1/4-18	9/16-18	26.9	27.7	26.9	14	MMS-HY-03957
M9/16JIC-M3/8NPT-M9/16JIC	9/16-18	3/8-18	9/16-18	29	31	29	19	MMS-HY-03958
M3/4JIC-M3/8NPT-M3/4JIC	3/4-16	3/8-18	3/4-16	31.8	31	31.8	19	MMS-HY-03959
M3/4JIC-M1/2NPT-M3/4JIC	3/4-16	1/2-14	3/4-16	33.8	37.3	33.8	22	MMS-HY-03960
M7/8JIC-M1/2NPT-M7/8JIC	7/8-14	1/2-14	7/8-14	36.8	37.3	36.8	22	MMS-HY-03961
M7/8JIC-M3/4NPT-M7/8JIC	7/8-14	3/4-14	7/8-14	39.2	40.4	39.2	27	MMS-HY-03962
M1 1/16JIC-M3/4NPT-M1 1/16JIC	1 1/16-12	3/4-14	1 1/16-12	42.2	40.4	42.2	27	MMS-HY-03963
M1 5/16JIC-M1 NPT-M1 5/16JIC	1 5/16-12	1-11.5	1 5/16-12	46	50	46	33	MMS-HY-03964
M1 5/8JIC-M1 1/4NPT-M1 5/8JIC	1 5/8-12	1 1/4-11.5	1 5/8-12	52.3	60.5	52.3	41	MMS-HY-03965



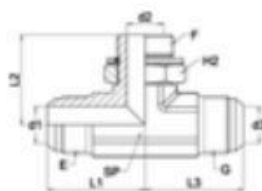
T ADAPTOR - MALE JIC / ADJUSTABLE MALE SAE / MALE JIC

Description	E JIC	F SAE	G JIC	L1 mm	L2 mm	L3 mm	H2 mm	SP	REF
M7/16JIC-M7/16UNF OR-M7/16JIC	7/16-20	7/16-20	7/16-20	22.6	26.2	22.6	14	11	MMS-HY-03966
M1/2JIC-M1/2UNF OR-M1/2JIC	1/2-20	1/2-20	1/2-20	24.1	28.7	24.1	17	13	MMS-HY-03967
M9/16JIC-M9/16UNF OR-M9/16JIC	9/16-18	9/16-18	9/16-18	26.9	31.8	26.9	17	14	MMS-HY-03968
M9/16JIC-M9/16UNF OR-M9/16JIC	9/16-18	3/4-16	9/16-18	29	36.8	29	22	19	MMS-HY-03969
M3/4JIC-M3/4UNF OR-M3/4JIC	3/4-16	3/4-16	3/4-16	31.8	36.8	31.8	22	19	MMS-HY-03970
M7/8JIC-M7/8UNF OR-M7/8JIC	7/8-14	7/8-14	7/8-14	36.8	43.2	36.8	27	22	MMS-HY-03971
M1 1/16JIC-M1 1/16UNF OR-M1 1/16JIC	1 1/16-12	1 1/16-12	1 1/16-12	42.2	49.3	42.2	32	27	MMS-HY-03972
M1 3/16JIC-M1 3/16UNF OR-M1 3/16JIC	1 3/16-12	1 3/16-12	1 3/16-12	45.7	50.8	45.7	36	33	MMS-HY-03973
M1 5/16JIC-M1 5/16UNF OR-M1 5/16JIC	1 5/16-12	1 5/16-12	1 5/16-12	46	52.1	46	41	33	MMS-HY-03974
M1 5/8JIC-M1 5/8UNF OR-M1 5/8JIC	1 5/8-12	1 5/8-12	1 5/8-12	52.3	57.2	52.3	50	41	MMS-HY-03975



T ADAPTOR - MALE JIC / ADJUSTABLE MALE BSP / MALE JIC

Description	E JIC	F GAS	G JIC	L1 mm	L2 mm	L3 mm	H2 mm	SP	REF
M7/16JIC-M1/8BSP OR-M7/16JIC	7/16-20	1/8-28	7/16-20	22.6	26.5	22.6	14	11	MMS-HY-03976
M7/16JIC-M1/4BSP OR-M7/16JIC	7/16-20	1/4-19	7/16-20	26.6	31.8	26.6	19	14	MMS-HY-03977
M1/2JIC-M1/8BSP OR-M1/2JIC	1/2-20	1/8-28	1/2-20	24.1	26.5	24.1	14	13	MMS-HY-03978
M1/2JIC-M1/4BSP OR-M1/2JIC	1/2-20	1/4-19	1/2-20	26.6	31.8	26.6	19	14	MMS-HY-03979
M9/16JIC-M1/4BSP OR-M9/16JIC	9/16-18	1/4-19	9/16-18	26.9	32	26.9	19	14	MMS-HY-03980
M9/16JIC-M3/8BSP OR-M9/16JIC	9/16-18	3/8-19	9/16-18	29	37	29	22	19	MMS-HY-03981
M3/4JIC-M3/8BSP OR-M3/4JIC	3/4-16	3/8-19	3/4-16	33	37	33	22	19	MMS-HY-03982
M3/4JIC-M1/2BSP OR-M3/4JIC	3/4-16	1/2-14	3/4-16	33.8	43	33.8	27	22	MMS-HY-03983
M7/8JIC-M3/4 BSP OR-M7/8JIC	7/8-14	3/4-14	7/8-14	36	41	36	27	22	MMS-HY-03984

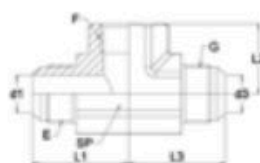


T ADAPTOR - MALE JIC / ADJUSTABLE MALE BSP / MALE JIC

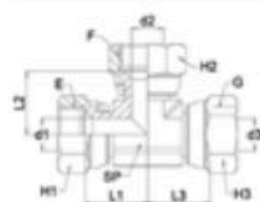
Description	E JIC	F GAS	G JIC	L1 mm	L2 mm	L3 mm	H2 mm	SP	REF
M1 1/16JIC-M3/4 BSP OR-M1 1/16JIC	1 1/16-12	3/4-14	1 1/16-12	44.2	51	44.2	27	22	MMS-HY-03985
M1 1/16JIC-M1 BSP OR-M1 1/16JIC	1 1/16-12	1-11	1 1/16-12	44.2	53	44.2	33	27	MMS-HY-03986
M1 5/16JIC-M3/4BSP OR-M1 5/16JIC	1 5/16-12	3/4-14	1 5/16-12	48.8	51	48.8	33	27	MMS-HY-03987
M1 5/16JIC-M1 BSP OR-M1 5/16JIC	1 5/16-12	1-11	1 5/16-12	48.8	53	48.8	33	27	MMS-HY-03988

T ADAPTOR - MALE JIC / FEMALE NPT / MALE JIC

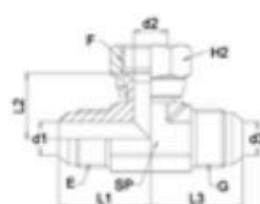
Description	E JIC	F NPT	G JIC	REF
M7/16JIC-F1/8NPT-M7/16JIC	7/16-20	1/8-27	7/16-20	MMS-HY-03989
M1/2JIC-F1/8NPT-M1/2JIC	1/2-20	1/8-27	1/2-20	MMS-HY-03990
M9/16JIC-F1/4NPT-M9/16JIC	9/16-18	1/4-18	9/16-18	MMS-HY-03991
M3/4JIC-F3/8NPT-M3/4JIC	3/4-16	3/8-19	3/4-16	MMS-HY-03992
M1 1/16JIC-F3/4NPT-M1 1/16JIC	1 1/16-12	3/4-14	1 1/16-12	MMS-HY-03993
M1 5/16JIC-F1 NPT-M1 5/16JIC	1 5/16-12	1-11	1 5/16-12	MMS-HY-03994
M1 5/8JIC-F1 1/4NPT-M1 5/8JIC	1 5/8-12	1 1/4-11	1 5/8-12	MMS-HY-03995

**T ADAPTOR - FEMALE SWIVEL JIC / FEMALE SWIVEL JIC / FEMALE SWIVEL JIC**

Description	E JIC	F JIC	G JIC	L1 mm	L2 mm	L3 mm	SP	REF
FS7/16JIC-FS7/16JIC-FS7/16JIC	7/16-20	7/16-20	7/16-20	16.7	16.7	16.7	11	MMS-HY-03996
FS1/2JIC-FS1/2JIC-FS1/2JIC	1/2-20	1/2-20	1/2-20	17.4	17.4	17.4	13	MMS-HY-03997
FS9/16JIC-FS9/16JIC-FS9/16JIC	9/16-18	9/16-18	9/16-18	22.3	22.3	22.3	14	MMS-HY-03998
FS3/4JIC-FS3/4JIC-FS3/4JIC	3/4-16	3/4-16	3/4-16	24.4	24.4	24.4	19	MMS-HY-03999
FS7/8JIC-FS7/8JIC-FS7/8JIC	7/8-14	7/8-14	7/8-14	28.4	28.4	28.4	22	MMS-HY-04000
FS1 1/16JIC-FS1 1/16JIC-FS1 1/16JIC	1 1/16-12	1 1/16-12	1 1/16-12	30.1	30.1	30.1	27	MMS-HY-04001
FS1 5/8JIC-FS1 5/8JIC-FS1 5/8JIC	1 5/8-12	1 5/8-12	1 5/8-12	42.8	42.8	42.8	41	MMS-HY-04002

**T ADAPTOR - MALE JIC / FEMALE SWIVEL JIC / MALE JIC**

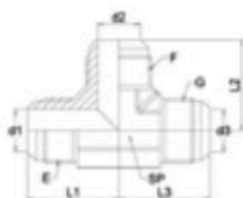
Description	E JIC	F JIC	G JIC	L1 mm	L2 mm	L3 mm	H2 mm	SP	REF
M7/16JIC-FS7/16JIC-M7/16JIC	7/16-20	7/16-20	7/16-20	22.6	16.7	22.6	14	11	MMS-HY-04003
M1/2JIC-FS1/2JIC-M1/2JIC	1/2-20	1/2-20	1/2-20	24.1	17.4	24.1	17	13	MMS-HY-04004
M9/16JIC-FS9/16JIC-M9/16JIC	9/16-18	9/16-18	9/16-18	26.9	22.3	26.9	19	14	MMS-HY-04005
M3/4JIC-FS3/4JIC-M3/4JIC	3/4-16	3/4-16	3/4-16	31.8	24.4	31.8	22	19	MMS-HY-04006
M7/8JIC-FS7/8JIC-M7/8JIC	7/8-14	7/8-14	7/8-14	36.8	28.4	36.8	27	22	MMS-HY-04007
M1 1/16JIC-FS1 1/16JIC-M1 1/16JIC	1 1/16-12	1 1/16-12	1 1/16-12	42.2	30.1	42.2	32	27	MMS-HY-04008
M1 3/16JIC-FS1 3/16JIC-M1 3/16JIC	1 3/16-12	1 3/16-12	1 3/16-12	43.5	43.5	43.5	36	30	MMS-HY-04009
M1 5/16JIC-FS1 5/16JIC-M1 5/16JIC	1 5/16-12	1 5/16-12	1 5/16-12	46	35.7	46	41	33	MMS-HY-04010
M1 5/8JIC-FS1 5/8JIC-M1 5/8JIC	1 5/8-12	1 5/8-12	1 5/8-12	52.3	42.8	52.3	50	41	MMS-HY-04011
M1 7/8JIC-FS1 7/8JIC-M1 7/8JIC	1 7/8-12	1 7/8-12	1 7/8-12	59.2	47.2	59.2	55	48	MMS-HY-04012



ADAPTORS TYPE JIC

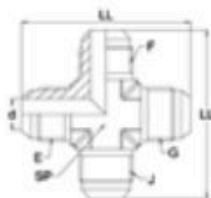
T ADAPTOR - MALE JIC / MALE JIC / MALE JIC

Description	E JIC	F JIC	G JIC	L1 mm	L2 mm	L3 mm	SP	REF
M7/16JIC-M7/16JIC-M7/16JIC	7/16-20	7/16-20	7/16-20	22.6	22.6	22.6	11	MMS-HY-04013
M1/2JIC-M1/2JIC-M1/2JIC	1/2-20	1/2-20	1/2-20	24.1	24.1	24.1	13	MMS-HY-04014
M9/16JIC-M9/16JIC-M9/16JIC	9/16-18	9/16-18	9/16-18	26.9	26.9	26.9	14	MMS-HY-04015
M3/4JIC-M3/4JIC-M3/4JIC	3/4-16	3/4-16	3/4-16	31.8	31.8	31.8	19	MMS-HY-04016
M7/8JIC-M7/8JIC-M7/8JIC	7/8-14	7/8-14	7/8-14	36.8	36.8	36.8	22	MMS-HY-04017
M1 1/16JIC-M1 1/16JIC-M1 1/16JIC	1 1/16-12	1 1/16-12	1 1/16-12	42.2	42.2	42.2	27	MMS-HY-04018
M1 5/16JIC-M1 5/16JIC-M1 5/16JIC	1 5/16-12	1 5/16-12	1 5/16-12	46	46	46	33	MMS-HY-04019
M1 5/8JIC-M1 5/8JIC-M1 5/8JIC	1 5/8-12	1 5/8-12	1 5/8-12	52.3	52.3	52.3	41	MMS-HY-04020
M1 7/8JIC-M1 7/8JIC-M1 7/8JIC	1 7/8-12	1 7/8-12	1 7/8-12	59.2	59.2	59.2	48	MMS-HY-04021



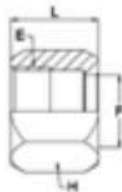
CROSS ADAPTOR - MALE JIC / MALE JIC / MALE JIC / MALE JIC

Description	E JIC	F JIC	G JIC	J JIC	LL mm	D mm	SP	REF
M7/16JIC-M7/16JIC-M7/16JIC-M7/16JIC	7/16-20	7/16-20	7/16-20	7/16-20	45.2	4.4	11	MMS-HY-04022
M1/2JIC-M1/2JIC-M1/2JIC-M1/2JIC	1/2-20	1/2-20	1/2-20	1/2-20	48.2	6	13	MMS-HY-04023
M9/16JIC-M9/16JIC-M9/16JIC-M9/16JIC	9/16-18	9/16-18	9/16-18	9/16-18	53.8	7.5	14	MMS-HY-04024
M3/4JIC-M3/4JIC-M3/4JIC-M3/4JIC	3/4-16	3/4-16	3/4-16	3/4-16	63.6	9.9	19	MMS-HY-04025
M7/8JIC-M7/8JIC-M7/8JIC-M7/8JIC	7/8-14	7/8-14	7/8-14	7/8-14	73.6	12.3	22	MMS-HY-04026
M1 1/16JIC-M1 1/16JIC-M1 1/16JIC-M1 1/16JIC	1 1/16-12	1 1/16-12	1 1/16-12	1 1/16-12	84.4	15.5	27	MMS-HY-04027



NUT - FEMALE JIC

Description	E JIC	F TUBE	L mm	H mm	REF
NUT7/16JIC	7/16-20	6-1/4	15.8	14	MMS-HY-04028
NUT1/2JIC	1/2-20	8-5/16	17.3	17	MMS-HY-04029
NUT9/16JIC	9/16-18	10-3/8	18.5	19	MMS-HY-04030
NUT3/4JIC	3/4-16	12-1/2	21.6	22	MMS-HY-04031
NUT7/8JIC	7/8-14	14-5/8	24.9	27	MMS-HY-04032
NUT1 1/16JIC	1 1/16-12	18-3/4	26.2	32	MMS-HY-04033
NUT1 5/16JIC	1 5/16-12	25-1	28.7	41	MMS-HY-04034
NUT1 5/8JIC	1 5/8-12	30-1 1/4	31.2	50	MMS-HY-04035
NUT1 7/8JIC	1 7/8-12	38-1 1/2	36.1	60	MMS-HY-04036

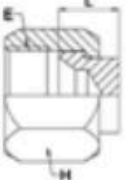


LOCK NUT - BULKHEAD JIC

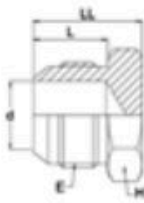
Description	E UNF	L mm	H mm	REF
NUT7/16UNF BL	7/16-20	6.4	17	MMS-HY-04037
NUT1/2UNF BL	1/2-20	6.4	19	MMS-HY-04038
NUT9/16UNF BL	9/16-18	6.9	22	MMS-HY-04039
NUT3/4UNF BL	3/4-16	7.9	24	MMS-HY-04040
NUT7/8UNF BL	7/8-14	9.1	30	MMS-HY-04041
NUT1 1/16UNF BL	1 1/16-12	10.4	36	MMS-HY-04042
NUT1 3/16UNF BL	1 3/16-12	10.4	38	MMS-HY-04043
NUT1 5/16UNF BL	1 5/16-12	10.4	41	MMS-HY-04044
NUT1 5/8UNF BL	1 5/8-12	10.4	50	MMS-HY-04045



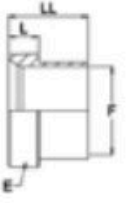
PLUG - FEMALE JIC

	Description	E JIC	L mm	H mm	REF
	BF3/8JIC	3/8-24	9.5	12	MMS-HY-04046
	BF7/16JIC	7/16-20	8.7	14	MMS-HY-04047
	BF1/2JIC	1/2-20	10.3	17	MMS-HY-04048
	BF9/16JIC	9/16-18	11.9	19	MMS-HY-04049
	BF3/4JIC	3/4-16	13.5	22	MMS-HY-04050
	BF7/8JIC	7/8-14	13.5	27	MMS-HY-04051
	BF1 1/16JIC	1 1/16-12	16.7	32	MMS-HY-04052
	BF1 3/16JIC	1 3/16-12	15.9	36	MMS-HY-04053
	BF1 5/16JIC	1 5/16-12	15.9	41	MMS-HY-04054
	BF1 5/8JIC	1 5/8-12	19.1	50	MMS-HY-04055
	BF1 7/8JIC	1 7/8-12	23.8	60	MMS-HY-04056

PLUG - MALE JIC

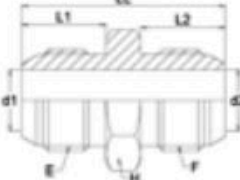
	Description	E JIC	L mm	LL mm	D mm	H mm	REF
	BM7/16JIC	7/16-20	14	20.3	4.4	12	MMS-HY-04057
	BM1/2JIC	1/2-20	14	20.3	6	14	MMS-HY-04058
	BM9/16JIC	9/16-18	14.1	21.3	7.5	17	MMS-HY-04059
	BM3/4JIC	3/4-16	16.7	23.9	9.9	19	MMS-HY-04060
	BM7/8JIC	7/8-14	19.3	27.9	12.3	24	MMS-HY-04061
	BM1 1/16JIC	1 1/16-12	21.9	32.5	15.5	27	MMS-HY-04062
	BM1 3/16JIC	1 3/16-12	23.1	33.8	21.5	36	MMS-HY-04063
	BM1 5/16JIC	1 5/16-12	22.6	33.3	18	32	MMS-HY-04064
	BM1 5/8JIC	1 5/8-12	24.3	36.8	27.5	46	MMS-HY-04065
	BM1 7/8JIC	1 7/8-12	27.5	41.9	33	50	MMS-HY-04066
	BM2 1/2JIC	2 1/2-12	33.9	52.1	45	65	MMS-HY-04067

SLEEVE FOR METRIC TUBE - JIC

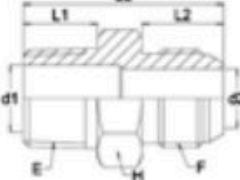
	Description	E JIC	F TUBE	L mm	LL mm	REF
	SL6MM	7/16-20	6	3.6	10.4	MMS-HY-04068
	SL8MM	1/2-20	8	4.1	11.2	MMS-HY-04069
	SL10MM	9/16-18	10	4.3	12.7	MMS-HY-04070
	SL12MM	3/4-16	12	5.6	14.2	MMS-HY-04071
	SL14MM	7/8-14	14	6.1	16.8	MMS-HY-04072
	SL15MM	7/8-14	15	6.1	16.8	MMS-HY-04073
	SL16MM	7/8-14	16	6.1	16.8	MMS-HY-04074
	SL18MM	1 1/16-12	18	6.6	17.3	MMS-HY-04075
	SL20MM	1 1/16-12	20	6.6	17.3	MMS-HY-04076
	SL22MM	1 3/16-12	22	6.6	19.3	MMS-HY-04077
	SL25MM	1 5/16-12	25	7.1	19.8	MMS-HY-04078
	SL30MM	1 5/8-12	30	7.9	23.1	MMS-HY-04079

ADAPTORS TYPE JIS

ADAPTOR - MALE JIS / MALE JIS

	Description	E JIS	F JIS	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
	M1/4JIS-M1/4JIS	1/4-19	1/4-19	16	16	39	5	5	17	MMS-HY-04080
	M3/8JIS-M3/8JIS	3/8-19	3/8-19	18	18	44	8	8	19	MMS-HY-04081
	M1/2JIS-M1/2JIS	1/2-14	1/2-14	20	20	48	11	11	22	MMS-HY-04082
	M3/4JIS-M3/4JIS	3/4-14	3/4-14	22	22	53	16	16	30	MMS-HY-04083

ADAPTOR - MALE BSPT / MALE JIS

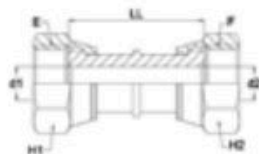
	Description	E BSPT	F JIS	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
	M1/4BSPT-M1/4JIS	1/4-19	1/4-19	14	16	37	5	5	17	MMS-HY-04084
	M3/8BSPT-M3/8JIS	3/8-19	3/8-19	15	18	41	8	8	19	MMS-HY-04085
	M1/2BSPT-M1/2JIS	1/2-14	1/2-14	19	20	48	11	11	22	MMS-HY-04086
	M3/4BSPT-M1/2JIS	3/4-14	3/4-14	20	22	54	16	16	30	MMS-HY-04087

NOTES

ADAPTORS TYPE ORFS SAE

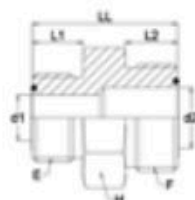
ADAPTOR - FEMALE SWIVEL ORFS / FEMALE SWIVEL ORFS

Description	E ORFS	F ORFS	LL mm	d1 mm	d2 mm	H1 mm	H2 mm	REF
FS9/16ORFS-FS9/16ORFS	9/16-18	9/16-18	34	4	4	19	19	MMS-HY-04088
FS11/16ORFS-FS11/16ORFS	11/16-16	11/16-16	41	6.5	6.5	22	22	MMS-HY-04089
FS13/16ORFS-FS13/16ORFS	13/16-16	13/16-16	45	9	9	24	24	MMS-HY-04090
FS1 ORFS-FS1 ORFS	1-14	1-14	53	11.5	11.5	30	30	MMS-HY-04091
FS1 3/16ORFS-FS1 3/16ORFS	1 3/16-12	1 3/16-12	56	14	14	36	36	MMS-HY-04092
FS1 7/16ORFS-FS1 7/16ORFS	1 7/16-12	1 7/16-12	60	20	20	41	41	MMS-HY-04093
FS1 11/16ORFS-FS1 11/16ORFS	1 11/16-12	1 11/16-12	60	26	26	50	50	MMS-HY-04094
FS2 ORFS-FS2 ORFS	2-12	2-12	61	32	32	60	60	MMS-HY-04095



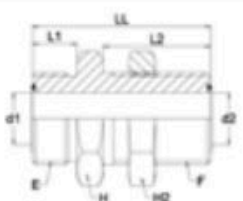
ADAPTOR - MALE ORFS / MALE ORFS

Description	E ORFS	F ORFS	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M9/16ORFS-M9/16ORFS	9/16-18	9/16-18	9.8	9.8	27.5	4.5	4.5	17	MMS-HY-04096
M9/16ORFS-M11/16ORFS	9/16-18	11/16-16	9.8	11.2	29.7	4.5	6.5	19	MMS-HY-04097
M11/16ORFS-M11/16ORFS	11/16-16	11/16-16	11.2	11.2	31.1	6.5	6.5	19	MMS-HY-04098
M11/16ORFS-M13/16ORFS	11/16-16	13/16-16	11.2	12.8	33.8	6.5	9.5	22	MMS-HY-04099
M13/16ORFS-M13/16ORFS	13/16-16	13/16-16	12.8	12.8	35.4	9.5	9.5	22	MMS-HY-04100
M13/16ORFS-M1 ORFS	13/16-16	1-14	12.8	15.5	40	9.5	12.5	27	MMS-HY-04101
M1 ORFS-M1 ORFS	1-14	1-14	15.5	15.5	42.5	12.5	12.5	27	MMS-HY-04102
M1 ORFS-M1 3/16ORFS	1-14	1 3/16-12	15.5	17	45.5	12.5	15.5	32	MMS-HY-04103
M1 3/16ORFS-M1 3/16ORFS	1 3/16-12	1 3/16-12	17	17	47.1	15.5	15.5	32	MMS-HY-04104
M1 3/16ORFS-M1 7/16ORFS	1 3/16-12	1 7/16-12	17	17.5	45.5	15.5	20.5	38	MMS-HY-04105
M1 7/16ORFS-M1 7/16ORFS	1 7/16-12	1 7/16-12	17.5	17.5	49.3	20.5	20.5	38	MMS-HY-04106
M1 7/16ORFS-M1 11/16ORFS	1 7/16-12	1 11/16-12	17.5	17.5	51.3	20.5	26	46	MMS-HY-04107
M1 11/16ORFS-M1 11/16ORFS	1 11/16-12	1 11/16-12	17.5	17.5	51.3	26	26	46	MMS-HY-04108
M2 ORFS-M2 ORFS	2-12	2-12	17.5	17.5	53	32	32	55	MMS-HY-04109



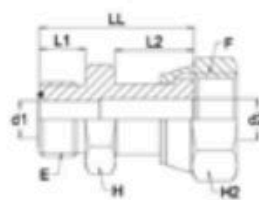
ADAPTOR - MALE ORFS / MALE BULKHEAD ORFS + LOCKNUT

Description	E ORFS	F ORFS	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H2 mm	REF
M9/16ORFS-M9/16ORFS BL	9/16-18	9/16-18	9.8	31.5	48.2	4.5	4.5	22	22	MMS-HY-04110
M11/16ORFS-M11/16ORFS BL	11/16-16	11/16-16	11.2	34	53.2	6.5	6.5	27	27	MMS-HY-04111
M13/16ORFS-M13/16ORFS BL	13/16-16	13/16-16	12.8	36.5	58.3	9.5	9.5	30	30	MMS-HY-04112
M1 ORFS-M1 ORFS BL	1-14	1-14	15.5	40.6	66.6	12.5	12.5	36	36	MMS-HY-04113
M1 3/16ORFS-M1 3/16ORFS BL	1 3/16-12	1 3/16-12	17	41.7	69.2	15.5	15.5	38	38	MMS-HY-04114
M1 7/16ORFS-M1 7/16ORFS BL	1 7/16-12	1 7/16-12	17.5	42.2	70.2	20.5	20.5	46	46	MMS-HY-04115
M1 11/16ORFS-M1 11/16ORFS BL	1 11/16-12	1 11/16-12	17.5	42.2	70.2	26	26	50	50	MMS-HY-04116
M2 ORFS-M2 ORFS BL	2-12	2-12	17.5	42.2	70.2	32	32	60	60	MMS-HY-04117



ADAPTOR - MALE ORFS / FEMALE SWIVEL ORFS

Description	E ORFS	F ORFS	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H2 mm	REF
M9/16ORFS-FS11/16ORFS	9/16-18	11/16-16	9.8	19	36.8	4.5	6.5	17	22	MMS-HY-04118
M9/16ORFS-FS13/16ORFS	9/16-18	13/16-16	9.8	21	39.5	4.5	9	19	24	MMS-HY-04119
M9/16ORFS-FS1 ORFS	9/16-18	1-14	9.8	25	46.4	4.5	11.5	27	30	MMS-HY-04120
M9/16ORFS-FS1 3/16ORFS	9/16-18	1 3/16-12	9.8	26.5	49.4	4.5	14	32	36	MMS-HY-04121
M11/16ORFS-FS13/16ORFS	11/16-16	13/16-16	11.2	21	40.9	6.5	9	19	24	MMS-HY-04122
M11/16ORFS-FS1 ORFS	11/16-16	1-14	11.2	25	47.8	6.5	11.5	27	30	MMS-HY-04123
M11/16ORFS-FS1 3/16ORFS	11/16-16	1 3/16-12	11.2	26.5	50.8	6.5	14	32	36	MMS-HY-04124



ADAPTOR - MALE ORFS / FEMALE SWIVEL ORFS

Description	E ORFS	F ORFS	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H2 mm	REF
M13/16ORFS-FS1 ORFS	13/16-16	1-14	12.8	25	49.4	9.5	11.5	27	30	MMS-HY-04125
M13/16ORFS-FS1 3/16ORFS	13/16-16	1 3/16-12	12.8	26.5	52.4	9.5	14	32	36	MMS-HY-04126
M13/16ORFS-FS1 7/16ORFS	13/16-16	1 7/16-12	12.8	28	54.8	9.5	20	36	41	MMS-HY-04127
M1 ORFS-FS1 3/16ORFS	1-14	1 3/16-12	15.5	26.5	55	12.5	14	32	36	MMS-HY-04128
M1 ORFS-FS1 7/16ORFS	1-14	1 7/16-12	15.5	28	57.5	12.5	20	36	41	MMS-HY-04129
M1 3/16ORFS-FS1 11/16ORFS	1 3/16-12	1 11/16-12	17	28	59.3	15.5	26	41	50	MMS-HY-04130
M1 7/16ORFS-FS1 11/16ORFS	1 7/16-12	1 11/16-12	17.5	28	59.8	20.5	26	41	50	MMS-HY-04131

ADAPTOR - MALE ORFS / MALE NPT

Description	E ORFS	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M9/16ORFS-M1/8NPT	9/16-18	1/8-27	9.8	9.7	27.5	4.5	4.5	17	MMS-HY-04132
M9/16ORFS-M1/4NPT	9/16-18	1/4-18	9.8	14.2	32	4.5	6	17	MMS-HY-04133
M9/16ORFS-M3/8NPT	9/16-18	3/8-18	9.8	14.2	32.7	4.5	9	19	MMS-HY-04134
M11/16ORFS-M1/4NPT	11/16-16	1/4-18	11.2	14.2	34.1	6.5	6.5	19	MMS-HY-04135
M11/16ORFS-M3/8NPT	11/16-16	3/8-18	11.2	14.2	34.1	6.5	9	19	MMS-HY-04136
M11/16ORFS-M1/2NPT	11/16-16	1/2-14	11.2	19	40	6.5	12	22	MMS-HY-04137
M13/16ORFS-M3/8NPT	13/16-16	3/8-18	12.8	14.2	36.8	9.5	9.5	22	MMS-HY-04138
M13/16ORFS-M1/2NPT	13/16-16	1/2-14	12.8	19	42	9.5	12	22	MMS-HY-04139
M13/16ORFS-M3/4NPT	13/16-16	3/4-14	12.8	19	43.4	9.5	16.5	27	MMS-HY-04140
M1 ORFS-M1/2NPT	1-14	1/2-14	15.5	19	46.1	12.5	12.5	27	MMS-HY-04141
M1 ORFS-M3/4NPT	1-14	3/4-14	15.5	19	46.1	12.5	16.5	27	MMS-HY-04142
M1 3/16ORFS-M3/4NPT	1 3/16-12	3/4-14	17	19	49.1	15.5	15.5	32	MMS-HY-04143
M1 3/16ORFS-M1 NPT	1 3/16-12	1-11	17	23.9	54.9	15.5	21.5	36	MMS-HY-04144
M1 7/16ORFS-M1 NPT	1 7/16-12	1-11	17.5	23.9	55.7	20.5	20.5	41	MMS-HY-04145
M1 11/16ORFS-M1 1/4NPT	1 11/16-12	1 1/4-11.5	17.5	24.6	58.4	26	26	46	MMS-HY-04146
M2 ORFS-M1 1/2NPT	2-12	1 1/2-11.5	17.5	25.4	61	32	32	55	MMS-HY-04147

ADAPTOR - MALE ORFS / MALE SAE

Description	E ORFS	F SAE	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M9/16ORFS-M7/16SAE	9/16-18	7/16-20	9.8	11	28.8	4.5	4.5	17	MMS-HY-04148
M9/16ORFS-M1/2SAE	9/16-18	1/2-20	9.8	11	28.8	4.5	6	17	MMS-HY-04149
M9/16ORFS-M9/16SAE	9/16-18	9/16-18	9.8	12	29.5	4.5	6.5	17	MMS-HY-04150
M9/16ORFS-M3/4SAE	9/16-18	3/4-16	9.8	14	33.6	4.5	9.5	22	MMS-HY-04151
M11/16ORFS-M7/16SAE	11/16-16	7/16-20	11.2	11	34.1	6.5	4.5	19	MMS-HY-04152
M11/16ORFS-M1/2SAE	11/16-16	1/2-20	11.2	11	30.8	6.5	6.5	19	MMS-HY-04153
M11/16ORFS-M9/16SAE	11/16-16	9/16-18	11.2	12	31.9	6.5	6.5	19	MMS-HY-04154
M11/16ORFS-M3/4SAE	11/16-16	3/4-16	11.2	14	35.1	6.5	9.5	22	MMS-HY-04155
M13/16ORFS-M9/16SAE	13/16-13	9/16-18	12.8	12	37.5	9.5	6.5	22	MMS-HY-04156
M13/16ORFS-M3/4SAE	13/16-13	3/4-16	12.8	14	36.6	9.5	9.5	22	MMS-HY-04157
M13/16ORFS-M7/8SAE	13/16-13	7/8-14	12.8	16	40.5	9.5	11.8	27	MMS-HY-04158
M1 ORFS-M3/4SAE	1-14	3/4-16	15.5	14	45.2	12.5	9.5	27	MMS-HY-04159
M1 ORFS-M7/8SAE	1-14	7/8-14	15.5	16	43.1	12.5	12.5	27	MMS-HY-04160
M1 ORFS-M1 1/16SAE	1-14	1 1/16-12	15.5	18.5	47.1	12.5	15.5	32	MMS-HY-04161
M1 3/16ORFS-M7/8SAE	1 3/16-12	7/8-14	17	16	50.5	15.5	12.5	32	MMS-HY-04162
M1 3/16ORFS-M 1/16SAE	1 3/16-12	1 1/16-12	17	18.5	48.6	15.5	15.5	32	MMS-HY-04163
M1 3/16ORFS-M 5/16SAE	1 3/16-12	1 5/16-12	17	18.5	48.5	15.5	20.5	38	MMS-HY-04164
M1 7/16ORFS-M1 1/16SAE	1 7/16-12	1 1/16-12	17.5	18.5	54.3	20.5	15.5	41	MMS-HY-04165
M1 7/16ORFS-M1 5/16SAE	1 7/16-12	1 5/16-12	17.5	18.5	50.3	20.5	20.5	38	MMS-HY-04166

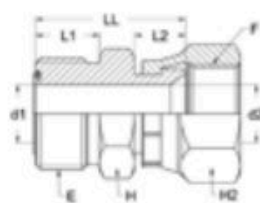
ADAPTORS TYPE ORFS SAE

ADAPTOR - MALE ORFS / MALE SAE

Description	E ORFS	F SAE	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1 7/16ORFS-M1 5/8SAE	1 7/16-12	1 5/8-12	17.5	18.5	52.3	20.5	26	50	MMS-HY-04167
M1 1/16ORFS-M1 5/16SAE	1 11/16-12	1 5/16-12	17.5	18.5	52	26	20.5	46	MMS-HY-04168
M1 1/16ORFS-M1 5/8SAE	1 11/16-12	1 5/8-12	17.5	18.5	52.3	26	26	50	MMS-HY-04169
M1 1/16ORFS-M1 7/8SAE	1 11/16-12	1 7/8-12	17.5	18.5	54.1	26	32	55	MMS-HY-04170
M2 ORFS-M1 7/8SAE	2-12	1 7/8-12	17.5	18.5	54.1	32	32	55	MMS-HY-04171

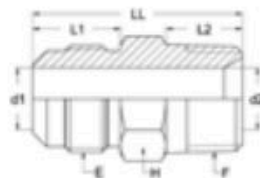
ADAPTOR - MALE ORFS / FEMALE SWIVEL JIC

Description	E ORFS	F JIC	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	H1 mm	REF
M9/16ORFS-FS7/16JIC	9/16-18	7/16-20	10	8.1	24	3.8	3.8	17	15	MMS-HY-04172
M11/16ORFS-FS7/16JIC	11/16-16	7/16-20	10.6	8.4	25.5	6.5	3.8	19	15	MMS-HY-04173
M11/16ORFS-FS9/16JIC	11/16-16	9/16-18	11.2	8.8	26.4	6.5	6.5	19	19	MMS-HY-04174
M13/16ORFS-FS3/4JIC	13/16-16	3/4-16	12.6	10.6	31.8	9.5	9.5	22	24	MMS-HY-04175
M1 ORFS-FS7/8JIC	1-14	7/8-14	15.4	12.3	36.5	12	12	27	27	MMS-HY-04176
M1 3/16ORFS-FS1 1/16JIC	1 3/16-16	1 1/16-12	16.9	13	40.5	15	15	32	32	MMS-HY-04177
M1 7/16ORFS-FS1 5/16JIC	1 7/16-12	1 5/16-12	17.5	12.5	41	20.5	20.5	38	41	MMS-HY-04178



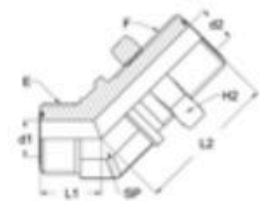
ADAPTOR - MALE SAE 90° CONE / MALE NPT

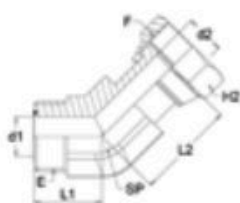
Description	E SAE	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M5/8SAE-M1/4NPT	5/8-18	1/4-18	15.7	14.2	36.6	7	7	17	MMS-HY-04179
M5/8SAE-M3/8NPT	5/8-18	3/8-18	15.7	14.2	36.6	7	9	19	MMS-HY-04180
M5/8SAE-M1/2NPT	5/8-18	1/2-14	15.7	19	42.9	7	12	22	MMS-HY-04181
M5/8SAE-M1 NPT	5/8-18	1-11	15.7	23.9	51.9	7	21.5	36	MMS-HY-04182



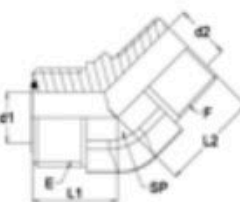
45° ADAPTOR - MALE ORFS / MALE BULKHEAD ORFS + LOCKNUT

Description	E ORFS	F ORFS	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M9/16ORFS-M9/16ORFS BL	9/16-18	9/16-18	16	44	4.5	4.5	22	14	MMS-HY-04183
M11/16ORFS-M11/16ORFS BL	11/16-16	11/16-16	18.8	48.5	6.5	6.5	27	19	MMS-HY-04184
M13/16ORFS-M13/16ORFS BL	13/16-16	13/16-16	20.3	51	9.5	9.5	30	19	MMS-HY-04185
M1 ORFS-M1 ORFS BL	1-14	1-14	23.4	56.6	12.5	12.5	36	27	MMS-HY-04186
M1 3/16ORFS-M1 3/16ORFS BL	1 3/16-12	1 3/16-12	25.9	60.7	15.5	15.5	41	30	MMS-HY-04187
M1 7/16ORFS-M1 7/16ORFS BL	1 7/16-12	1 7/16-12	30	65.2	20.5	20.5	46	36	MMS-HY-04188
M1 11/16ORFS-M1 11/16ORFS BL	1 11/16-12	1 11/16-12	32	67	26	26	50	41	MMS-HY-04189
M2 ORFS-M2 ORFS BL	2-12	2-12	36.8	67	32	32	60	48	MMS-HY-04190

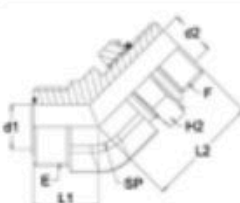


45° ADAPTOR - MALE ORFS / FEMALE SWIVEL ORFS


Description	E ORFS	F ORFS	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M9/16ORFS-FS9/16ORFS 45°	9/16-18	9/16-18	16	22	4.5	4	19	14	MMS-HY-04191
M11/16ORFS-FS11/16ORFS 45°	11/16-16	11/16-16	18.8	25.5	6.5	6.5	22	19	MMS-HY-04192
M13/16ORFS-FS13/16ORFS 45°	13/16-16	13/16-16	24	30	9.5	9	27	19	MMS-HY-04193
M1 ORFS-FS1 ORFS 45°	1-14	1-14	23.4	35.5	12.5	11.5	30	27	MMS-HY-04194
M1 3/16ORFS-FS1 3/16ORFS 45°	1 3/16-12	1 3/16-12	25.9	40.5	15.5	14	36	30	MMS-HY-04195
M1 7/16ORFS-FS1 7/16ORFS 45°	1 7/16-12	1 7/16-12	33	45.5	20.5	20	41	36	MMS-HY-04196
M1 11/16ORFS-FS1 11/16ORFS 45°	1 11/16-12	1 11/16-12	32	45.5	26	26	50	41	MMS-HY-04197
M2 ORFS-FS2 ORFS 45°	2-12	2-12	36.8	47.5	32	32	60	48	MMS-HY-04198

45° ADAPTOR - MALE ORFS / MALE NPT


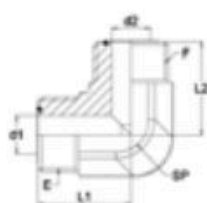
Description	E ORFS	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M9/16ORFS-M1/8NPT 45°	9/16-18	1/8-27	16	17	4.5	4.5	14	MMS-HY-04199
M9/16ORFS-M1/4NPT 45°	9/16-18	1/4-18	16	21.8	4.5	6	14	MMS-HY-04200
M9/16ORFS-M3/8NPT 45°	9/16-18	3/8-18	17.3	24.1	4.5	9	19	MMS-HY-04201
M11/16ORFS-M1/4NPT 45°	11/16-16	1/4-18	18.8	24.1	6.5	6	19	MMS-HY-04202
M11/16ORFS-M3/8NPT 45°	11/16-16	3/8-18	18.8	24.1	6.5	9	19	MMS-HY-04203
M11/16ORFS-M1/2NPT 45°	11/16-16	1/2-14	19.3	29.7	6.5	12	22	MMS-HY-04204
M13/16ORFS-M3/8NPT 45°	13/16-16	3/8-18	20.3	24.1	9.5	9	19	MMS-HY-04205
M13/16ORFS-M1/2NPT 45°	13/16-16	1/2-14	20.9	29.7	9.5	12	22	MMS-HY-04206
M1 ORFS-M1/2NPT 45°	1-14	1/2-14	23.4	30.5	12.5	12	27	MMS-HY-04207
M1 3/16ORFS-M3/4NPT 45°	1 3/16-12	3/4-14	25.9	30.5	15.5	16.5	30	MMS-HY-04208
M1 7/16ORFS-M1 NPT 45°	1 7/16-12	1-11.5	30	37.6	20.5	21.5	36	MMS-HY-04209

45° ADAPTOR - MALE ORFS / ADJUSTABLE MALE SAE


Description	E ORFS	F SAE	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M9/16ORFS-M7/16UNF OR 45°	9/16-18	7/16-20	18.3	26	4.5	5	17	14	MMS-HY-04210
M9/16ORFS-M9/16UNF OR 45°	9/16-18	9/16-18	18.3	28	4.5	7.5	19	14	MMS-HY-04211
M11/16ORFS-M7/16UNF OR 45°	11/16-16	7/16-20	20.5	27.3	6.5	5	17	19	MMS-HY-04212
M11/16ORFS-M9/16UNF OR 45°	11/16-16	9/16-18	20.5	29.5	6.5	7.5	19	19	MMS-HY-04213
M11/16ORFS-M3/4UNF OR 45°	11/16-16	3/4-16	20.5	32.5	6.5	9.5	24	19	MMS-HY-04214
M13/16ORFS-M9/16UNF OR 45°	13/16-16	9/16-18	24	33	9.5	6.5	19	19	MMS-HY-04215
M13/16ORFS-M3/4UNF OR 45°	13/16-16	3/4-16	24	33	9.5	9.5	24	19	MMS-HY-04216
M13/16ORFS-M7/8UNF OR 45°	13/16-16	7/8-14	24	39.5	9.5	12.5	27	22	MMS-HY-04217
M1 ORFS-M3/4UNF OR 45°	1-14	3/4-16	28	34	12.5	9.5	24	27	MMS-HY-04218
M1 ORFS-M7/8UNF OR 45°	1-14	7/8-14	23.4	44.7	12.5	12.5	27	27	MMS-HY-04219
M1 ORFS-M 1 1/16UNF OR 45°	1-14	1 1/16-12	28	44	12.5	15.5	32	27	MMS-HY-04220
M1 3/16ORFS-M7/8UNF OR 45°	1 3/16-12	7/8-14	30.7	42	15	12.5	27	30	MMS-HY-04221
M1 3/16ORFS-M1 1/16UNF OR 45°	1 3/16-12	1 1/16-12	30.7	45.5	15.5	15.5	32	30	MMS-HY-04222
M1 3/16ORFS-M1 5/16UNF OR 45°	1 3/16-12	1 5/16-12	32.5	47.9	15.5	20.5	41	36	MMS-HY-04223
M1 7/16ORFS-M1 1/16UNF OR 45°	1 7/16-12	1 1/16-12	33	47.9	20	15.1	32	36	MMS-HY-04224
M1 7/16ORFS-M1 5/16UNF OR 45°	1 7/16-12	1 5/16-12	33	47.9	20.5	21.5	41	36	MMS-HY-04225
M1 7/16ORFS-M1 5/8UNF OR 45°	1 7/16-12	1 5/8-12	35	48.5	20.5	26	50	41	MMS-HY-04226
M1 11/16ORFS-M1 5/8UNF OR 45°	1 11/16-12	1 5/8-12	35.5	48.8	26	27	50	41	MMS-HY-04227
M1 11/16ORFS-M1 7/8UNF OR 45°	1 11/16-12	1 7/8-12	38	51	26	33	55	48	MMS-HY-04228
M2 ORFS-M1 7/8UNF OR 45°	2-12	1 7/8-12	39	52	32	32	55	50	MMS-HY-04229

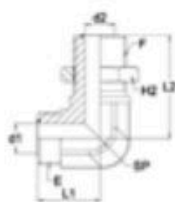
ADAPTORS TYPE ORFS SAE

90° ADAPTOR - MALE ORFS / MALE ORFS



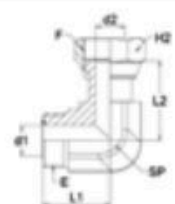
Description	E ORFS	F ORFS	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M9/16ORFS-M9/16ORFS 90°	9/16-18	9/16-18	21.5	21.5	4.5	4.5	14	MMS-HY-04230
M9/16ORFS-M11/16ORFS 90°	9/16-18	11/16-16	23.5	25	4.5	6.5	19	MMS-HY-04231
M11/16ORFS-M11/16ORFS 90°	11/16-16	11/16-16	25	25	6.5	6.5	19	MMS-HY-04232
M11/16ORFS-M13/16ORFS 90°	11/16-16	11/16-16	26.5	28	6.5	9.5	19	MMS-HY-04233
M13/16ORFS-M13/16ORFS 90°	13/16-16	13/16-16	28	28	9.5	9.5	19	MMS-HY-04234
M13/16ORFS-M1 3/16ORFS 90°	13/16-16	13/16-16	33.5	37.3	9.5	15.5	30	MMS-HY-04235
M1 ORFS-M1 ORFS 90°	1-14	1-14	33.3	33.3	12.5	12.5	27	MMS-HY-04236
M1 3/16ORFS-M1 3/16ORFS 90°	1 3/16-12	1 3/16-12	37.3	37.3	15.5	15.5	30	MMS-HY-04237
M1 7/16ORFS-M1 7/16ORFS 90°	1 7/16-12	1 7/16-12	41.7	41.7	20.5	20.5	36	MMS-HY-04238
M1 11/16ORFS-M1 11/16ORFS 90°	1 11/16-12	1 11/16-12	44.7	44.7	26	26	41	MMS-HY-04239
M2 ORFS-M2 ORFS 90°	2-12	2-12	48.8	48.8	32	32	48	MMS-HY-04240

90° ADAPTOR - MALE ORFS / MALE BULKHEAD ORFS + LOCKNUT



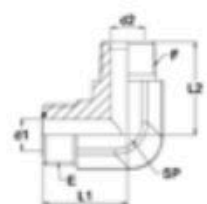
Description	E ORFS	F ORFS	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M9/16ORFS-M9/16ORFS 90° BL	9/16-18	9/16-18	22.5	47	4.5	4.5	22	14	MMS-HY-04241
M11/16ORFS-M11/16ORFS 90° BL	11/16-16	11/16-16	26	52	6.5	6.5	27	19	MMS-HY-04242
M13/16ORFS-M13/16ORFS 90° BL	13/16-16	13/16-16	29	55.5	9.5	9.5	30	19	MMS-HY-04243
M1 ORFS-M1 ORFS 90° BL	1-14	1-14	34.5	63	12.5	12.5	36	27	MMS-HY-04244
M1 3/16ORFS-M1 3/16ORFS 90° BL	1 3/16-12	1 3/16-12	38.5	67.2	15.5	15.5	38	30	MMS-HY-04245
M1 7/16ORFS-M1 7/16ORFS 90° BL	1 7/16-12	1 7/16-12	42.5	71.2	20.5	20.5	46	36	MMS-HY-04246
M1 11/16ORFS-M1 11/16ORFS 90° BL	1 11/16-12	1 11/16-12	45.5	75.5	26	26	50	41	MMS-HY-04247
M2 ORFS-M2 ORFS 90° BL	2-12	2-12	49.5	79.5	32	32	60	48	MMS-HY-04248

90° ADAPTOR - MALE ORFS / FEMALE SWIVEL ORFS



Description	E ORFS	F ORFS	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M9/16ORFS-FS9/16ORFS 90°	9/16-18	9/16-18	21.5	26.4	4.5	4	19	14	MMS-HY-04249
M11/16ORFS-FS11/16ORFS 90°	11/16-16	11/16-16	25	29.2	6.5	6.5	22	19	MMS-HY-04250
M13/16ORFS-FS13/16ORFS 90°	13/16-16	13/16-16	28	37.9	9.5	9	24	19	MMS-HY-04251
M1 ORFS-FS1 ORFS 90°	1-14	1-14	33.3	41.2	12.5	11.5	30	27	MMS-HY-04252
M1 3/16ORFS-FS1 3/16ORFS 90°	1 3/16-12	1 3/16-12	37.3	46.3	15.5	14	36	30	MMS-HY-04253
M1 7/16ORFS-FS1 7/16ORFS 90°	1 7/16-12	1 7/16-12	41.7	53.3	20.5	20	41	36	MMS-HY-04254
M1 11/16ORFS-FS1 11/16ORFS 90°	1 11/16-12	1 11/16-12	44.7	58.2	26	26	50	41	MMS-HY-04255
M2 ORFS-FS2 ORFS 90°	2-12	2-12	48.8	61.2	32	32	60	48	MMS-HY-04256

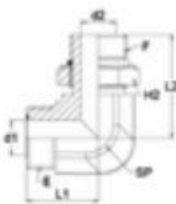
90° ADAPTOR - MALE ORFS / MALE NPT



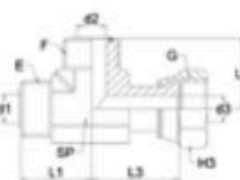
Description	E ORFS	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M9/16ORFS-M1/8NPT 90°	9/16-18	1/8-27	21.5	22.9	4.5	4.5	14	MMS-HY-04257
M9/16ORFS-M1/4NPT 90°	9/16-18	1/4-18	21.5	27.7	4.5	6	14	MMS-HY-04258
M11/16ORFS-M1/4NPT 90°	11/16-16	1/4-18	25	31	6.5	6	19	MMS-HY-04259
M11/16ORFS-M3/8NPT 90°	11/16-16	3/8-18	25	31	6.5	9	19	MMS-HY-04260
M11/16ORFS-M1/2NPT 90°	11/16-16	1/2-14	29.2	37.3	6.5	12	22	MMS-HY-04261
M13/16ORFS-M3/8NPT 90°	13/16-16	3/8-18	28	31	9.5	9	19	MMS-HY-04262
M13/16ORFS-M1/2NPT 90°	13/16-16	1/2-14	30.8	37.3	9.5	12	22	MMS-HY-04263
M13/16ORFS-M3/4NPT 90°	13/16-16	3/4-14	33.5	40.4	9.5	16.5	27	MMS-HY-04264
M1 ORFS-M1/2NPT 90°	1-14	1/2-14	33.3	40.4	12.5	12	27	MMS-HY-04265
M1 ORFS-M3/4NPT 90°	1-14	3/4-14	33.3	40.4	12.5	16.5	27	MMS-HY-04266

90° ADAPTOR - MALE ORFS / MALE NPT

Description	E ORFS	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M1 3/16ORFS-M3/4NPT 90°	1 3/16-12	3/4-14	37.3	40.4	15.5	16.5	30	MMS-HY-04267
M1 7/16ORFS-M1 NPT 90°	1 7/16-12	1-11.5	41.7	50	20.5	21.5	36	MMS-HY-04268

90° ADAPTOR - MALE ORFS / ADJUSTABLE MALE SAE


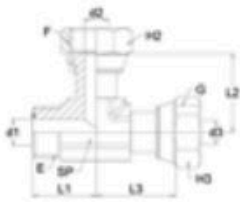
Description	E ORFS	F SAE	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M9/16ORFS-M7/16UNF OR 90°	9/16-18	7/16-20	21.5	32.7	4.5	5	14	14	MMS-HY-04269
M9/16ORFS-M9/16UNF OR 90°	9/16-18	9/16-18	23.5	36.8	4.5	6.5	17	19	MMS-HY-04270
M11/16ORFS-M7/16UNF OR 90°	11/16-16	7/16-20	25	34.8	6.5	5	14	19	MMS-HY-04271
M11/16ORFS-M9/16UNF OR 90°	11/16-16	9/16-18	25	36.8	6.5	6.5	17	19	MMS-HY-04272
M11/16ORFS-M3/4UNF OR 90°	11/16-16	3/4-16	26.5	40.6	6.5	9.5	22	19	MMS-HY-04273
M13/16ORFS-M9/16UNF OR 90°	13/16-16	9/16-18	28	36.5	9.5	6.5	17	19	MMS-HY-04274
M13/16ORFS-M3/4UNF OR 90°	13/16-16	3/4-16	28	40.6	9.5	9.5	22	19	MMS-HY-04275
M13/16ORFS-M7/8UNF OR 90°	13/16-16	7/8-14	30.8	50	9.5	12.5	27	19	MMS-HY-04276
M13/16ORFS-M1 1/16UNF OR 90°	13/16-16	1 1/16-12	33.5	55.1	9.5	15.5	32	30	MMS-HY-04277
M1 ORFS-M3/4UNF OR 90°	1-14	3/4-16	33.3	45.7	12.5	9.5	22	27	MMS-HY-04278
M1 ORFS-M7/8UNF OR 90°	1-14	7/8-14	33.3	50	12.5	12.5	27	27	MMS-HY-04279
M1 ORFS-M1 1/16UNF OR 90°	1-14	1 1/16-12	35.8	55.1	12.5	15.5	32	30	MMS-HY-04280
M1 3/16ORFS-M7/8UNF OR 90°	1 3/16-12	7/8-14	37.3	51	15.5	12	27	30	MMS-HY-04281
M1 3/16ORFS-M1 1/16UNF OR 90°	1 3/16-12	1 1/16-12	37.3	55.1	15.5	15.5	32	30	MMS-HY-04282
M1 3/16ORFS-M1 5/16UNF OR 90°	1 3/16-12	1 5/16-12	41.2	59.7	15.5	20.5	41	36	MMS-HY-04283
M1 7/16ORFS-M1 1/16UNF OR 90°	1 7/16-12	1 1/16-12	41.7	59	20.5	15.5	32	36	MMS-HY-04284
M1 7/16ORFS-M1 5/16UNF OR 90°	1 7/16-12	1 5/16-12	41.7	59.7	20.5	20.5	41	36	MMS-HY-04285
M1 7/16ORFS-M1 5/8UNF OR 90°	1 7/16-12	1 5/8-12	44.7	62.2	20.5	26	50	41	MMS-HY-04286
M1 11/16ORFS-M1 5/16UNF OR 90°	1 11/16-12	1 5/16-12	44.7	62.2	26	20.5	41	41	MMS-HY-04287
M1 11/16ORFS-M1 5/8UNF OR 90°	1 11/16-12	1 5/8-12	44.7	62.2	26	26	50	41	MMS-HY-04288
M1 11/16ORFS-M1 7/8UNF OR 90°	1 11/16-12	1 7/8-12	48.8	65.8	26	32	55	48	MMS-HY-04289
M2 ORFS-M1 7/8UNF OR 90°	2-12	1 7/8-12	48.8	65.8	32	32	55	48	MMS-HY-04290

L ADAPTOR - MALE ORFS / MALE ORFS / FEMALE SWIVEL ORFS


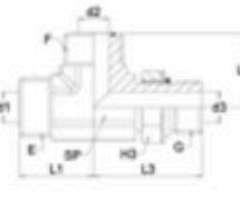
Description	E ORFS	F ORFS	G ORFS	L1 mm	L2 mm	L3 mm	H3 mm	SP	REF
M9/16ORFS-M9/16ORFS-FS9/16ORFS	9/16-18	9/16-18	9/16-18	23	23	26	19	14	MMS-HY-04291
M11/16ORFS-M11/16ORFS-FS11/16ORFS	11/16-16	11/16-16	11/16-16	27.5	27.5	31	22	19	MMS-HY-04292
M13/16ORFS-M13/16ORFS-FS13/16ORFS	13/16-16	13/16-16	13/16-16	31	31	36	27	22	MMS-HY-04293
M1 ORFS-M1 ORFS-FS1 ORFS	1-14	1-14	1-14	36.5	36.5	43	30	27	MMS-HY-04294
M1 3/16ORFS-M1 3/16ORFS-FS1 3/16ORFS	1 3/16-12	1 3/16-12	1 3/16-12	40.3	40.3	48	36	30	MMS-HY-04295
M1 7/16ORFS-M1 7/16ORFS-FS1 7/16ORFS	1 7/16-12	1 7/16-12	1 7/16-12	41.7	41.7	53.3	41	36	MMS-HY-04296
M1 11/16ORFS-M1 11/16ORFS-FS1 11/16ORFS	1 11/16-12	1 11/16-12	1 11/16-12	47.5	47.5	68	50	41	MMS-HY-04297

ADAPTORS TYPE ORFS SAE

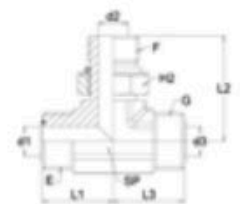
L ADAPTOR - MALE ORFS / FEMALE SWIVEL ORFS / FEMALE SWIVEL ORFS

	Description	E ORFS	F ORFS	G ORFS	L1 mm	L2 mm	L3 mm	H2 mm	H3 mm	REF
	M9/16ORFS-FS9/16ORFS-FS9/16ORFS	9/16-18	9/16-18	9/16-18	21.5	26.4	26.4	19	19	MMS-HY-04298
	M11/16ORFS-FS11/16ORFS-FS11/16ORFS	11/16-16	11/16-16	11/16-16	25	29.2	29.2	22	22	MMS-HY-04299
	M13/16ORFS-FS13/16ORFS-FS13/16ORFS	13/16-16	13/16-16	13/16-16	28	37.9	37.9	24	24	MMS-HY-04300
	M1 ORFS-FS1 ORFS-FS1 ORFS	1-14	1-14	1-14	36.5	43	43	30	30	MMS-HY-04301
	M1 3/16ORFS-FS1 3/16ORFS-FS1 3/16ORFS	1 3/16-12	1 3/16-12	1 3/16-12	37.3	46.3	46.3	36	36	MMS-HY-04302
	M1 7/16ORFS-FS1 7/16ORFS-FS1 7/16ORFS	1 7/16-12	1 7/16-12	1 7/16-12	41.7	53.3	53.3	41	41	MMS-HY-04303

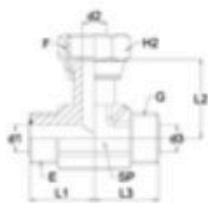
L ADAPTOR - MALE ORFS / MALE ORFS / ADJUSTABLE MALE SAE

	Description	E ORFS	F ORFS	G SAE	L1 mm	L2 mm	L3 mm	H3 mm	SP	REF
	M9/16ORFS-M9/16ORFS-M7/16UNF OR	9/16-18	9/16-18	7/16-20	21.5	21.5	32.7	14	14	MMS-HY-04304
	M9/16ORFS-M9/16ORFS-M9/16UNF OR	9/16-18	9/16-18	9/16-18	23	22.5	34.5	14	17	MMS-HY-04305
	M11/16ORFS-M11/16ORFS-M9/16UNF OR	11/16-16	11/16-16	9/16-18	25	25	36.8	17	19	MMS-HY-04306
	M13/16ORFS-M13/16ORFS-M3/4UNF OR	13/16-16	13/16-16	3/4-16	28	28	40.6	22	19	MMS-HY-04307
	M1 ORFS-M1 ORFS-M7/8UNF OR	1-14	1-14	7/8-14	33.3	33.3	50	27	27	MMS-HY-04308
	M1 3/16ORFS-M1 3/16ORFS-M1 1/16UNF OR	1 3/16-12	1 3/16-12	1 1/16-12	37.3	37.3	55.1	32	30	MMS-HY-04309
	M1 7/16ORFS-M1 7/16ORFS-M1 5/16UNF OR	1 7/16-12	1 7/16-12	1 5/16-12	41.7	41.7	59.7	41	36	MMS-HY-04310
	M1 11/16ORFS-M1 11/16ORFS-M1 5/8UNF OR	1 11/16-12	1 11/16-12	1 5/8-12	44.7	44.7	62.2	50	41	MMS-HY-04311

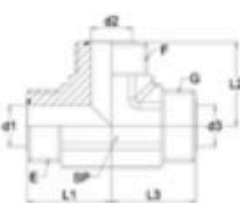
T ADAPTOR - MALE ORFS / ADJUSTABLE MALE SAE / MALE ORFS

	Description	E ORFS	F SAE	G ORFS	L1 mm	L2 mm	L3 mm	H2 mm	SP	REF
	M9/16ORFS-M7/16UNF OR-M9/16ORFS	9/16-18	7/16-20	9/16-18	23	30.3	23	17	14	MMS-HY-04312
	M11/16ORFS-M9/16UNF OR-M11/16ORFS	11/16-16	9/16-18	11/16-16	27.5	35.5	27.5	19	19	MMS-HY-04313
	M13/16ORFS-M3/4UNF OR-M13/16ORFS	13/16-16	3/4-16	13/16-16	31	40.5	31	24	22	MMS-HY-04314
	M1 ORFS-M7/8UNF OR-M1 ORFS	1-14	7/8-14	1-14	34.5	50	34.5	27	27	MMS-HY-04315
	M1 3/16ORFS-M1 1/16UNF OR-M1 3/16ORFS	1 3/16-12	1 1/16-12	1 3/16-12	40.3	55.3	40.3	32	30	MMS-HY-04316
	M1 7/16ORFS-M1 5/16UNF OR-M1 7/16ORFS	1 7/16-12	1 5/16-12	1 7/16-12	41.5	59.3	41.5	41	36	MMS-HY-04317
	M1 11/16ORFS-M1 5/8UNF OR-M1 11/16ORFS	1 11/16-12	1 5/8-12	1 11/16-12	47.5	60.5	47.5	50	41	MMS-HY-04318
	M2 ORFS-M1 7/8UNF OR-M2 ORFS	2-12	1 7/8-12	2-12	53.5	68	53.5	55	50	MMS-HY-04319

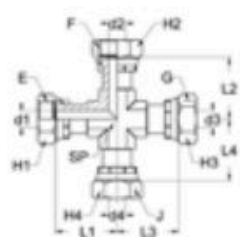
T ADAPTOR - MALE ORFS / FEMALE SWIVEL ORFS / MALE ORFS

	Description	E ORFS	F ORFS	G ORFS	L1 mm	L2 mm	L3 mm	H2 mm	SP	REF
	M9/16ORFS-FS9/16ORFS-M9/16ORFS	9/16-18	9/16-18	9/16-18	22.5	26	22.5	19	14	MMS-HY-04320
	M11/16ORFS-FS11/16ORFS-M11/16ORFS	11/16-16	11/16-16	11/16-16	27.5	31	27.5	22	19	MMS-HY-04321
	M13/16ORFS-FS13/16ORFS-M13/16ORFS	13/16-16	13/16-16	13/16-16	31	36	31	27	22	MMS-HY-04322
	M1 ORFS-FS1 ORFS-M1 ORFS	1-14	1-14	1-14	36.5	43	36.5	30	27	MMS-HY-04323
	M1 3/16ORFS-FS1 3/16ORFS-M1 3/16ORFS	1 3/16-12	1 3/16-12	1 3/16-12	40.3	47	40.3	36	33	MMS-HY-04324
	M1 7/16ORFS-FS1 7/16ORFS-M1 7/16ORFS	1 7/16-12	1 7/16-12	1 7/16-12	42	53	42	41	35	MMS-HY-04325
	M1 11/16ORFS-FS1 11/16ORFS-M1 11/16ORFS	1 11/16-12	1 11/16-12	1 11/16-12	42.5	53.3	42.5	41	36	MMS-HY-04326
	M2 ORFS-FS2 ORFS-M2 ORFS	2-12	2-12	2-12	49.5	61.2	49.5	60	48	MMS-HY-04327

T ADAPTOR - MALE ORFS / MALE ORFS / MALE ORFS

	Description	E ORFS	F ORFS	G ORFS	L1 mm	L2 mm	L3 mm	SP	REF
	M9/16ORFS-M9/16ORFS-M9/16ORFS	9/16-18	9/16-18	9/16-18	21.5	21.5	21.5	14	MMS-HY-04328
	M11/16ORFS-M11/16ORFS-M11/16ORFS	11/16-16	11/16-16	11/16-16	25	25	25	19	MMS-HY-04329
	M13/16ORFS-M13/16ORFS-M13/16ORFS	13/16-16	13/16-16	13/16-16	28	28	28	19	MMS-HY-04330
	M1 ORFS-M1 ORFS-M1 ORFS	1-14	1-14	1-14	33.3	33.3	33.3	27	MMS-HY-04331
	M1 3/16ORFS-M1 3/16ORFS-M1 3/16ORFS	1 3/16-12	1 3/16-12	1 3/16-12	37.3	37.3	37.3	30	MMS-HY-04332
	M1 7/16ORFS-M1 7/16ORFS-M1 7/16ORFS	1 7/16-12	1 7/16-12	1 7/16-12	41.7	41.7	41.7	36	MMS-HY-04333
	M1 11/16ORFS-M1 11/16ORFS-M1 11/16ORFS	1 11/16-12	1 11/16-12	1 11/16-12	44.7	44.7	44.7	41	MMS-HY-04334
	M2 ORFS-M2 ORFS-M2 ORFS	2-12	2-12	2-12	48.8	48.8	48.8	48	MMS-HY-04335

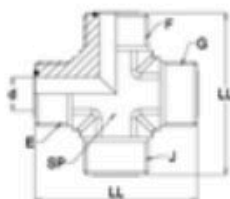
CROSS ADAPTOR - FEMALE SWIVEL ORFS / FEMALE SWIVEL ORFS / FEMALE SWIVEL ORFS / FEMALE SWIVEL ORFS

	Description	E ORFS	F ORFS	G ORFS	J ORFS	d4 mm	H1 mm	H2 mm	H3 mm	H4 mm	SP	REF
	FS9/16ORFS-FS9/16ORFS-FS9/16ORFS-FS9/16ORFS	9/16-18	9/16-18	9/16-18	9/16-18	4.5	19	19	19	19	16	MMS-HY-04336
	FS11/16ORFS-FS11/16ORFS-FS11/16ORFS-FS11/16ORFS	11/16-16	11/16-16	11/16-16	11/16-16	6.5	22	22	22	22	19	MMS-HY-04337
	FS13/16ORFS-FS13/16ORFS-FS13/16ORFS-FS13/16ORFS	13/16-16	13/16-16	13/16-16	13/16-16	9.5	24	24	24	24	22	MMS-HY-04338
	FS1 ORFS-FS1 ORFS-FS1 ORFS-FS1 ORFS	1-14	1-14	1-14	1-14	12	30	30	30	30	27	MMS-HY-04339
	FS1 3/16ORFS-FS1 3/16ORFS-FS1 3/16ORFS-FS1 3/16ORFS	1 3/16-12	1 3/16-12	1 3/16-12	1 3/16-12	15.5	36	36	36	36	30	MMS-HY-04340
	FS1 7/16ORFS-FS1 7/16ORFS-FS1 7/16ORFS-FS1 7/16ORFS	1 7/16-12	1 7/16-12	1 7/16-12	1 7/16-12	20.5	41	41	41	41	35	MMS-HY-04341

ADAPTORS TYPE ORFS SAE

CROSS ADAPTOR - MALE ORFS / MALE ORFS / MALE ORFS / MALE ORFS

Description	E ORFS	F ORFS	G ORFS	J ORFS	LL mm	D mm	SP	REF
M9/16ORFS-M9/16ORFS-M9/16ORFS-M9/16ORFS	9/16-18	9/16-18	9/16-18	9/16-18	43	4.5	14	MMS-HY-04342
M11/16ORFS-M11/16ORFS-M11/16ORFS-M11/16ORFS	11/16-16	11/16-16	11/16-16	11/16-16	50	6.5	19	MMS-HY-04343
M13/16ORFS-M13/16ORFS-M13/16ORFS-M13/16ORFS	13/16-16	13/16-16	13/16-16	13/16-16	56	9.5	19	MMS-HY-04344
M1 ORFS-M1 ORFS-M1 ORFS-M1 ORFS	1-14	1-14	1-14	1-14	66.6	12.5	27	MMS-HY-04345
M1 3/16ORFS-M1 3/16ORFS-M1 3/16ORFS-M1 3/16ORFS	1 3/16-12	1 3/16-12	1 3/16-12	1 3/16-12	74.6	15.5	30	MMS-HY-04346
M1 7/16ORFS-M1 7/16ORFS-M1 7/16ORFS-M1 7/16ORFS	1 7/16-12	1 7/16-12	1 7/16-12	1 7/16-12	83.4	20.5	36	MMS-HY-04347
M1 11/16ORFS-M1 11/16ORFS-M1 11/16ORFS-M1 11/16ORFS	1 11/16-12	1 11/16-12	1 11/16-12	1 11/16-12	89.4	26	41	MMS-HY-04348
M2 ORFS-M2 ORFS-M2 ORFS-M2 ORFS	2-12	2-12	2-12	2-12	97.6	32	48	MMS-HY-04349



LOCK NUT - FEMALE ORFS BULKHEAD

Description	E ORFS	L mm	H mm	REF
NUT9/16ORFS BL	9/16-18	6.9	22	MMS-HY-04350
NUT11/16ORFS BL	11/16-16	8	27	MMS-HY-04351
NUT13/16ORFS BL	13/16-16	9	30	MMS-HY-04352
NUT1 ORFS BL	1-14	10.4	36	MMS-HY-04353
NUT1 3/16ORFS BL	1 3/16-12	10.4	41	MMS-HY-04354
NUT1 7/16ORFS BL	1 7/16-12	10.4	46	MMS-HY-04355
NUT1 11/16ORFS BL	1 11/16-12	10.4	50	MMS-HY-04356
NUT2 ORFS BL	2-12	10.4	60	MMS-HY-04357



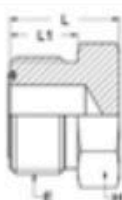
PLUG - FEMALE ORFS

Description	E ORFS	L mm	H mm	REF
BF9/16ORFS	9/16-18	8.5	19	MMS-HY-04358
BF11/16ORFS	11/16-16	9.5	22	MMS-HY-04359
BF13/16ORFS	13/16-16	12	24	MMS-HY-04360
BF1 ORFS	1-14	12	30	MMS-HY-04361
BF1 3/16ORFS	1 3/16-12	13.5	36	MMS-HY-04362
BF1 7/16ORFS	1 7/16-12	15	41	MMS-HY-04363
BF1 11/16ORFS	1 11/16-12	15	50	MMS-HY-04364
BF2 ORFS	2-12	15	60	MMS-HY-04365

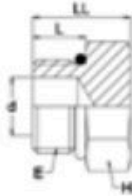


PLUG - MALE ORFS

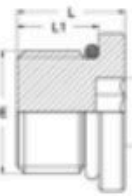
Description	E ORFS	L mm	L1 mm	H mm	REF
BM9/16ORFS	9/16-18	16.7	9.8	17	MMS-HY-04366
BM11/16ORFS	11/16-16	19.2	11.2	19	MMS-HY-04367
BM13/16ORFS	13/16-16	21.8	12.8	22	MMS-HY-04368
BM1 ORFS	1-14	25.9	15.5	27	MMS-HY-04369
BM1 3/16ORFS	1 3/16-12	27.4	17	32	MMS-HY-04370
BM1 7/16ORFS	1 7/16-12	27.9	17.5	41	MMS-HY-04371
BM1 11/16ORFS	1 11/16-12	27.9	17.5	46	MMS-HY-04372
BM2 ORFS	2-12	27.9	17.5	55	MMS-HY-04373



PLUG - MALE UNF + O-RING

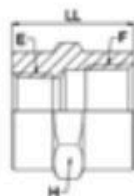
	Description	E SAE	L mm	LL mm	D mm	H mm	REF
	BM7/16SAE	7/16-20	9.14	17	5.2	14	MMS-HY-04374
	BM1/2SAE	1/2-20	9.14	17	5.9	17	MMS-HY-04375
	BM9/16SAE	9/16-18	9.93	18.5	7.5	17	MMS-HY-04376
	BM3/4SAE	3/4-16	11.13	20.3	10.7	22	MMS-HY-04377
	BM7/8SAE	7/8-14	12.7	23.6	12.7	27	MMS-HY-04378
	BM1 1/16SAE	1 1/16-12	15.09	27.7	16.7	32	MMS-HY-04379
	BM1 3/16SAE	1 3/16-12	15.09	27.7	18.2	36	MMS-HY-04380
	BM1 5/16SAE	1 5/16-12	15.09	28.4	22.2	41	MMS-HY-04381
	BM1 5/8SAE	1 5/8-12	15.09	30.5	27.8	50	MMS-HY-04382
	BM1 7/8SAE	1 7/8-12	15.09	32.3	34.1	55	MMS-HY-04383

PLUG - MALE UNF COUNTERSUNK HEXAGON + O-RING

	Description	E SAE	L mm	L1 mm	H mm	REF
	BM5/16SAE UMB	5/16-24	10.3	7.54	3	MMS-HY-04384
	BM3/8SAE UMB	3/8-24	10.4	7.54	3	MMS-HY-04385
	BM7/16SAE UMB	7/16-20	11.5	9.1	5	MMS-HY-04386
	BM1/2SAE UMB	1/2-20	11.5	9.1	5	MMS-HY-04387
	BM9/16SAE UMB	9/16-18	12.8	9.9	6	MMS-HY-04388
	BM3/4SAE UMB	3/4-16	14.3	11.1	8	MMS-HY-04389
	BM7/8SAE UMB	7/8-14	16	12.7	10	MMS-HY-04390
	BM1 1/16SAE UMB	1 1/16-12	19	15.1	14	MMS-HY-04391
	BM1 3/16SAE UMB	1 3/16-12	19.5	15.1	14	MMS-HY-04392
	BM1 5/16SAE UMB	1 5/16-12	19.5	15.1	16	MMS-HY-04393
	BM1 5/8SAE UMB	1 5/8-12	19.5	15.1	19	MMS-HY-04394
	BM1 7/8SAE UMB	1 7/8-12	19.5	15.1	19	MMS-HY-04395

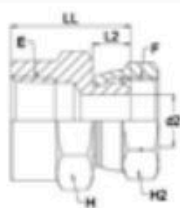
ADAPTORS TYPE NPT

ADAPTOR - FEMALE NPT FIX / FEMALE NPT FIX



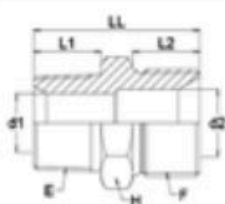
Description	E NPT	F NPT	LL mm	H mm	REF
F1/8NPT-F1/8NPT	1/8-27	1/8-27	19	16	MMS-HY-04396
F1/8NPT-F1/4NPT	1/8-27	1/4-18	23.4	19	MMS-HY-04397
F1/4NPT-F1/4NPT	1/4-18	1/4-18	28.7	19	MMS-HY-04398
F1/4NPT-F3/8NPT	1/4-18	3/8-18	28.4	22	MMS-HY-04399
F3/8NPT-F3/8NPT	3/8-18	3/8-18	28.7	22	MMS-HY-04400
F3/8NPT-F1/2NPT	3/8-18	1/2-14	32.5	29	MMS-HY-04401
F1/2NPT-F1/2NPT	1/2-14	1/2-14	38.1	29	MMS-HY-04402
F1/2NPT-F3/4NPT	1/2-14	3/4-14	38.6	36	MMS-HY-04403
F3/4NPT-F3/4NPT	3/4-14	3/4-14	38.9	36	MMS-HY-04404
F1 NPT-F1 NPT	1-11.5	1-11.5	48	41	MMS-HY-04405

ADAPTOR - FEMALE FIX NPT / FEMALE SWIVEL NPT



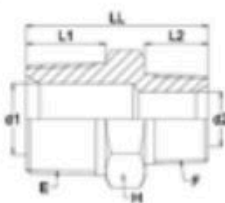
Description	E NPT	F NPT	L2 mm	LL mm	d2 mm	H mm	H2 mm	REF
F1/8NPT-FS1/8NPT	1/8-27	1/8-27	10	23.5	4	16	14	MMS-HY-04406
F1/4NPT-FS1/4NPT	1/4-18	1/4-18	12.1	31.5	5.6	19	17	MMS-HY-04407
F1/4NPT-FS3/8NPT	1/4-18	3/8-18	12.6	33	8.7	19	22	MMS-HY-04408
F3/8NPT-FS3/8NPT	3/8-18	3/8-18	12.6	34	8.7	22	22	MMS-HY-04409
F1/2NPT-FS1/2NPT	1/2-14	1/2-14	13	38	11.9	30	27	MMS-HY-04410
F3/4NPT-FS3/4NPT	3/4-14	3/4-14	15.5	44	16.3	36	32	MMS-HY-04411
F1 NPT-FS1 NPT	1-11.5	1-11.5	15.5	51.5	21.4	41	38	MMS-HY-04412
F1 1/4NPT-FS1 1/4NPT	1 1/4-11.5	1 1/4-11.5	18.8	51.5	29	50	50	MMS-HY-04413
F1 1/2NPT-FS1 1/2NPT	1 1/2-11.5	1 1/2-11.5	21.5	55	34.5	60	55	MMS-HY-04414

ADAPTOR - MALE NPT / MALE METRIC 60°



Description	E NPT	F METRIC	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1/4NPT-MM18x1.5	1/4-18	M18x1.5	14.2	11	33	6	10	19	MMS-HY-04415
M3/8NPT-MM16x1.5	3/8-18	M16x1.5	14.2	11	33	8	8	19	MMS-HY-04416
M3/8NPT-MM18x1.5	3/8-18	M18x1.5	14.2	11	33	9	9	19	MMS-HY-04417
M3/8NPT-MM22x1.5	3/8-18	M22x1.5	14.2	14	36	9	14.1	24	MMS-HY-04418
M1/2NPT-MM18x1.5	1/2-14	M18x1.5	19	11	38	10	10	22	MMS-HY-04419
M1/2NPT-MM26x1.5	1/2-14	M26x1.5	19	12	40	12	15	27	MMS-HY-04420

ADAPTOR - MALE NPT / MALE NPT



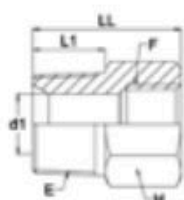
Description	E NPT	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1/8NPT-M1/8NPT	1/8-27	1/8-27	9.7	9.7	26.9	4.5	4.5	11	MMS-HY-04421
M1/8NPT-M1/4NPT	1/8-27	1/4-18	14.2	9.7	32	6	4.5	14	MMS-HY-04422
M1/8NPT-M3/8NPT	1/8-27	3/8-18	14.2	14.2	34	6	6	14	MMS-HY-04423
M1/4NPT-M1/4NPT	1/4-18	1/4-18	14.2	14.2	36.8	6	6	14	MMS-HY-04424
M1/4NPT-M3/8NPT	1/4-18	3/8-18	14.2	14.2	36.8	9	6	19	MMS-HY-04425
M1/4NPT-M1/2NPT	1/4-18	1/2-14	19	14.2	43.2	12	6	22	MMS-HY-04426
M1/4NPT-M3/4NPT	1/4-18	3/4-14	19	14.2	45	16.5	6	27	MMS-HY-04427
M3/8NPT-M3/8NPT	3/8-18	3/8-18	14.2	14.2	36.8	9	9	19	MMS-HY-04428
M3/8NPT-M1/2NPT	3/8-18	1/2-14	19	14.2	43.2	12	9	22	MMS-HY-04429
M3/8NPT-M3/4NPT	3/8-18	3/4-14	19	14.2	45	16.5	9	27	MMS-HY-04430
M1/2NPT-M1/2NPT	1/2-14	1/2-14	19	19	48	12	12	22	MMS-HY-04431

ADAPTOR - MALE NPT / MALE NPT

Description	E NPT	F NPT	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1/2NPT-M3/4NPT	1/2-14	3/4-14	19	19	49.8	16.5	12	27	MMS-HY-04432
M1/2NPT-M1 NPT	1/2-14	1-11.5	23.9	19	54.5	21.5	12	36	MMS-HY-04433
M3/4NPT-M3/4NPT	3/4-14	3/4-14	19	19	49.8	16.5	16.5	27	MMS-HY-04434
M3/4NPT-M1 NPT	3/4-14	1-11.5	23.9	19	54.6	21.5	16.5	36	MMS-HY-04435
M1 NPT-M1 NPT	1-11.5	1-11.5	23.9	23.9	59.4	21.5	21.5	36	MMS-HY-04436
M1 1/4NPT-M1 1/4NPT	1 1/4-11.5	1 1/4-11.5	24.6	24.6	63	28.5	28.5	46	MMS-HY-04437
M1 1/2NPT-M1 1/2NPT	1 1/2-11.5	1 1/2-11.5	25.4	25.4	66.3	35	35	50	MMS-HY-04438

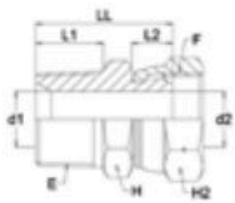
ADAPTOR - MALE NPT / FEMALE NPT

Description	E NPT	F NPT	L1 mm	LL mm	d1 mm	H mm	REF
M1/8NPT -F1/8NPT	1/8-27	1/8-27	9.7	26.4	4.5	16	MMS-HY-04439
M1/8NPT-F1/4NPT	1/8-27	1/4-18	9.7	30.7	4.5	19	MMS-HY-04440
M1/4NPT-F1/8NPT	1/4-18	1/8-27	14.2	21.6	6	14	MMS-HY-04441
M1/4NPT-F1/4NPT	1/4-18	1/4-18	14.2	35.3	6	19	MMS-HY-04442
M1/4NPT-F3/8NPT	1/4-18	3/8-18	14.2	36.6	6	22	MMS-HY-04443
M1/4NPT-F1/2NPT	1/4-18	1/2-14	14.2	42.7	6	30	MMS-HY-04444
M1/4NPT-F3/4NPT	1/4-18	3/4-14	14.2	47.5	6	36	MMS-HY-04445
M3/8NPT-F1/8NPT	3/8-18	1/8-27	14.2	21.6	8.3	19	MMS-HY-04446
M3/8NPT-F1/4NPT	3/8-18	1/4-18	14.2	21.6	9	19	MMS-HY-04447
M3/8NPT-F3/8NPT	3/8-18	3/8-18	14.2	42.7	9	22	MMS-HY-04448
M3/8NPT-F1/2NPT	3/8-18	1/2-14	14.2	42.7	9	30	MMS-HY-04449
M3/8NPT-F3/4NPT	3/8-18	3/4-14	14.2	47.5	9	36	MMS-HY-04450
M1/2NPT-F1/8NPT	1/2-14	1/8-27	19	27.9	8.3	22	MMS-HY-04451
M1/2NPT-F1/4NPT	1/2-14	1/4-18	19	27.9	8.3	22	MMS-HY-04452
M1/2NPT-F3/8NPT	1/2-14	3/8-18	19	27.9	12	22	MMS-HY-04453
M1/2NPT-F1/2NPT	1/2-14	1/2-14	19	47.5	12	29	MMS-HY-04454
M1/2NPT-F3/4NPT	1/2-14	3/4-14	19	49	12	36	MMS-HY-04455
M1/2NPT-F1 NPT	1/2-14	1-11.5	19	55.4	12	41	MMS-HY-04456
M3/4NPT-F1/4NPT	3/4-14	1/4-18	19	27.9	16.5	27	MMS-HY-04457
M3/4NPT-F3/8NPT	3/4-14	3/8-18	19	29.7	14.1	27	MMS-HY-04458
M3/4NPT-F1/2NPT	3/4-14	1/2-14	19	29.7	17.4	27	MMS-HY-04459
M3/4NPT-F3/4NPT	3/4-14	3/4-14	19	49	16.5	36	MMS-HY-04460
M3/4NPT-F1 NPT	3/4-18	1-11.5	19	55.4	17.4	36	MMS-HY-04461
M1 NPT-F3/8NPT	1-11.5	3/8-18	23.9	34.5	21.5	36	MMS-HY-04462
M1 NPT-F1/2NPT	1-11.5	1/2-14	23.9	34.5	17.4	36	MMS-HY-04463
M1 NPT-F3/4NPT	1-11.5	3/4-14	23.9	34.5	22.7	36	MMS-HY-02346
M1 NPT-F1 NPT	1-11.5	1-11.5	23.9	42.7	22.7	50	MMS-HY-04464
M1 NPT-F1 1/4NPT	1-11.5	1 1/4-11.5	23.9	62.5	21.5	50	MMS-HY-04465
M1 1/4NPT-F1 NPT	1 1/4-11.5	1-11.5	24.6	37.3	28.5	46	MMS-HY-04466
M1 1/2NPT-F1 NPT	1 1/2-11.5	1-11.5	25.4	39.9	28.6	50	MMS-HY-04467
M1 1/2NPT-F1 1/4NPT	1 1/2-11.5	1 1/4-11.5	25.4	39.9	37.3	50	MMS-HY-04468



ADAPTORS TYPE NPT

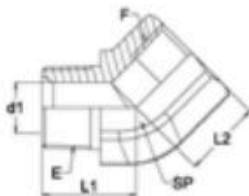
ADAPTOR - MALE NPT / FEMALE SWIVEL NPT

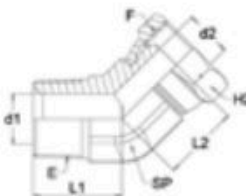
	Description	E	F	L1	L2	LL	d1	d2	H	H2	REF
		NPT	NPT	mm	mm	mm	mm	mm	mm	mm	
	M1/8NPT-FS1/8NPT	1/8-27	1/8-27	10	9.7	24	4	4	11	14	MMS-HY-04469
	M1/8NPT-FS1/4NPT	1/8-27	1/4-18	9.7	12.1	26.5	4.5	5.6	14	17	MMS-HY-04470
	M1/4NPT-FS1/4NPT	1/4-18	1/4-18	14.2	12.1	33.5	5.6	5.6	14	17	MMS-HY-04471
	M1/4NPT-FS3/8NPT	1/4-18	3/8-18	14.2	12.6	33	6	8.7	17	22	MMS-HY-04472
	M3/8NPT-FS1/4NPT	3/8-18	1/4-14	14.2	12.1	33.5	9	5.6	19	22	MMS-HY-04473
	M3/8NPT-FS3/8NPT	3/8-18	3/8-14	14.2	12.6	33.5	8.7	8.7	19	22	MMS-HY-04474
	M3/8NPT-FS1/2NPT	3/8-18	1/2-14	14.2	13	35	9	11.9	19	27	MMS-HY-04475
	M1/2NPT-FS3/8NPT	1/2-14	3/8-18	19	12.6	40.5	12	8.7	22	22	MMS-HY-04476
	M1/2NPT-FS1/2NPT	1/2-14	1/2-14	19	13	41	11.9	11.9	22	27	MMS-HY-04477
	M1/2NPT-FS3/4NPT	1/2-14	3/4-14	19	15.5	44.5	12	16.3	24	32	MMS-HY-04478
	M3/4NPT-FS1/2NPT	3/4-14	1/2-14	19	13	42	16.5	11.9	27	27	MMS-HY-04479
	M3/4NPT-FS3/4NPT	3/4-14	3/4-14	19	15.5	44.5	16.3	16.3	27	32	MMS-HY-04480
	M3/4NPT-FS1 NPT	3/4-14	1-11.5	19	15.5	45.5	16.3	21.4	30	38	MMS-HY-04481
	M1 NPT-FS3/4NPT	1-11.5	3/4-14	23.9	15.5	51.5	21.5	16.3	36	32	MMS-HY-04482
	M1 NPT-FS1 NPT	1-11.5	1-11.5	23.9	15.5	51	21.4	21.4	36	38	MMS-HY-04483
	M1 1/4NPT-FS1 1/4NPT	1 1/4-11.5	1 1/4-11.5	24.6	18.8	56	29	29	46	50	MMS-HY-04484
	M1 1/2NPT-FS1 1/2NPT	1 1/2-11.5	1 1/2-11.5	25.4	21.5	59.5	34.5	34.5	50	55	MMS-HY-04485
	M2 NPT-FS2 NPT	2-11.5	2-11.5	26.2	22.5	64.5	46.1	46.1	65	70	MMS-HY-04486

45° ADAPTOR - FEMALE NPT FIX / FEMALE NPT FIX

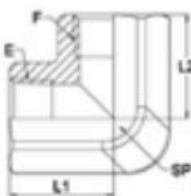
	Description	A	B	REF
		NPT	NPT	
	F1/4NPT-F1/4NPT 45°	1/4-18	1/4-18	MMS-HY-04487
	F3/8NPT-F3/8NPT 45°	3/8-18	3/8-18	MMS-HY-04488
	F1/2NPT-F1/2NPT 45°	1/2-14	1/2-14	MMS-HY-04489
	F3/4NPT-F3/4NPT 45°	3/4-14	3/4-14	MMS-HY-04490
	F1 NPT- F1 NPT 45°	1-11.5	1-11.5	MMS-HY-04491

45° ADAPTOR - MALE NPT / FEMALE NPT

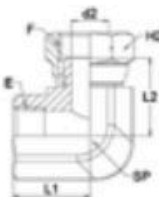
	Description	E	F	L1	L2	d1	SP	REF
		NPT	NPT	mm	mm	mm		
	M1/8NPT-F1/8NPT 45°	1/8-27	1/8-27	19.8	11.9	4.5	14	MMS-HY-04492
	M1/4NPT-F1/4NPT 45°	1/4-18	1/4-18	26.7	15.7	6	19	MMS-HY-04493
	M3/8NPT-F3/8NPT 45°	3/8-18	3/8-18	26.9	18.3	9	22	MMS-HY-04494
	M1/2NPT-F1/2NPT 45°	1/2-14	1/2-14	34	23.1	12	27	MMS-HY-04495
	M3/4NPT-F3/4NPT 45°	3/4-14	3/4-14	35.1	24.6	16.5	33	MMS-HY-04496
	M1 NPT-F1 NPT 45°	1-11.5	1-11.5	43.7	28.4	21.5	41	MMS-HY-04497

45° ADAPTOR - MALE NPT / FEMALE SWIVEL NPT


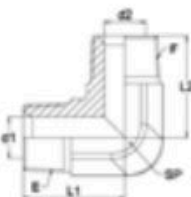
Description	E NPT	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M1/2NPT-FS1/2NPT 45°	1/8-27	1/8-27	16.3	15.7	4.5	4	14	11	MMS-HY-04498
M1/4NPT-FS1/4NPT 45°	1/4-18	1/4-18	21.8	18.5	6	5.6	17	14	MMS-HY-04499
M3/8NPT-FS3/8NPT 45°	3/8-18	3/8-18	24.1	20.6	9	8.7	22	19	MMS-HY-04500
M1/2NPT-FS3/8NPT 45°	1/2-14	3/8-18	29.7	22	12	8.7	22	22	MMS-HY-04501
M1/2NPT-FS1/2NPT 45°	1/2-14	1/2-14	29.7	22.4	12	11.9	27	22	MMS-HY-04502
M3/4NPT-FS1/2NPT 45°	3/4-14	1/2-14	30.5	23.3	16.5	11.9	27	27	MMS-HY-04503
M3/4NPT-FS3/4NPT 45°	3/4-14	3/4-14	30.5	25.8	16.5	16.3	32	27	MMS-HY-04504
M1 NPT-FS3/4NPT 45°	1-11.5	3/4-14	37.6	29.2	21.5	16.3	32	33	MMS-HY-04505
M1 NPT-FS1 NPT 45°	1-11.5	1-11.5	37.6	29.2	21.5	21.4	38	33	MMS-HY-04506
M1 1/4NPT-FS1 1/4NPT 45°	1 1/4-11.5	1 1/4-11.5	42.4	33.5	28.5	29	50	41	MMS-HY-04507
M1 1/2NPT-FS1 1/2NPT 45°	1 1/2-11.5	1 1/2-11.5	45	35.8	35	34.5	55	48	MMS-HY-04508

90° ADAPTOR - FEMALE NPT FIX / FEMALE NPT FIX


Description	E NPT	F NPT	L1 mm	L2 mm	SP	REF
F1/8NPT-F1/8NPT 90°	1/8-27	1/8-27	16.8	16.8	14	MMS-HY-04509
F1/4NPT-F1/4NPT 90°	1/4-18	1/4-18	22.4	22.4	19	MMS-HY-04510
F3/8NPT-F3/8NPT 90°	3/8-18	3/8-18	25.9	25.9	22	MMS-HY-04511
F1/2NPT-F1/2NPT 90°	1/2-14	1/2-14	31.2	31.2	27	MMS-HY-04512
F3/4NPT-F3/4NPT 90°	3/4-14	3/4-14	34.5	34.5	33	MMS-HY-04513
F1 NPT- F1 NPT 90°	1-11.5	1-11.5	41.1	41.1	41	MMS-HY-04514
F1 1/4NPT-F1 1/4NPT 90°	1 1/4-11.5	1 1/4-11.5	43.2	43.2	48	MMS-HY-04515

90° ADAPTOR - FEMALE NPT FIX / FEMALE SWIVEL NPT


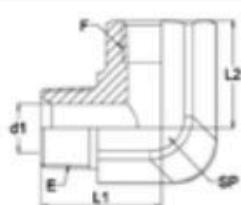
Description	E NPT	F NPT	L1 mm	L2 mm	d2 mm	H2 mm	SP	REF
F1/8NPT-FS1/8NPT 90°	1/8-27	1/8-27	16.8	20.3	4	14	14	MMS-HY-04516
F1/4NPT-FS1/4NPT 90°	1/4-18	1/4-18	22.4	25.1	5.6	17	19	MMS-HY-04517
F3/8NPT-FS3/8NPT 90°	3/8-18	3/8-18	25.9	26.9	8.7	22	22	MMS-HY-04518
F1/2NPT-FS1/2NPT 90°	1/2-14	1/2-14	31.2	31.5	11.9	27	27	MMS-HY-04519
F3/4NPT-FS3/4NPT 90°	3/4-14	3/4-14	34.5	37.3	16.3	32	33	MMS-HY-04520
F1 NPT-FS1 NPT 90°	1-11.5	1-11.5	41.1	43.9	21.4	38	41	MMS-HY-04521
F1 1/4NPT-FS1 1/4NPT 90°	1 1/4-11.5	1 1/4-11.5	43.2	47.1	29	50	48	MMS-HY-04522

90° ADAPTOR - MALE NPT / MALE NPT


Description	E NPT	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	SP	REF
M1/8NPT-M1/8NPT 90°	1/8-27	1/8-27	19.8	19.8	4.5	4.5	11	MMS-HY-04523
M1/4NPT-M1/8NPT 90°	1/4-18	1/8-27	27.7	19.8	6	4.5	12	MMS-HY-04524
M1/4NPT-M1/4NPT 90°	1/4-18	1/4-18	27.7	27.7	6	6	14	MMS-HY-04525
M3/8NPT-M3/8NPT 90°	3/8-18	3/8-18	31	31	9	9	19	MMS-HY-04526
M1/2NPT-M1/2NPT 90°	1/2-14	1/2-14	37.3	37.3	12	12	22	MMS-HY-04527
M3/4NPT-M3/4NPT 90°	3/4-14	3/4-14	40.4	40.4	16.5	16.5	27	MMS-HY-04528
M1 NPT-M1 NPT 90°	1-11.5	1-11.5	50	50	21.5	21.5	33	MMS-HY-04529

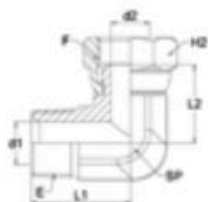
ADAPTORS TYPE NPT

90° ADAPTOR - MALE NPT / FEMALE NPT



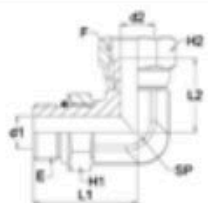
Description	E NPT	F NPT	L1 mm	L2 mm	d1 mm	SP	REF
M1/8NPT-F1/8NPT 90°	1/8-27	1/8-27	19.8	16.8	4.5	14	MMS-HY-04530
M1/4NPT-F1/4NPT 90°	1/4-18	1/4-18	27.7	22.4	6	19	MMS-HY-04531
M3/8NPT-F3/8NPT 90°	3/8-18	3/8-18	31	25.9	9	22	MMS-HY-04532
M1/2NPT-F1/2NPT 90°	1/2-14	1/2-14	37.3	31.2	12	27	MMS-HY-04533
M3/4NPT-F1/2NPT 90°	3/4-14	1/2-14	40.4	31.2	14	30	MMS-HY-04534
M3/4NPT-F3/4NPT 90°	3/4-14	3/4-14	40.4	34.5	16.5	33	MMS-HY-04535
M1 NPT-F1 NPT 90°	1-11.5	1-11.5	50	41.1	21.5	41	MMS-HY-04536
M1 1/4NPT-F1 1/4NPT 90°	1 1/4-11.5	1 1/4-11.5	60.5	43.2	28.5	48	MMS-HY-04537

90° ADAPTOR - MALE NPT / FEMALE SWIVEL NPT



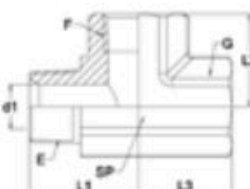
Description	E NPT	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
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M1/8NPT-FS1/4NPT 90°	1/8-27	1/4-18	23.2	22.4	4.5	5.6	17	14	MMS-HY-04539
M1/4NPT-FS1/4NPT 90°	1/4-18	1/4-18	27.7	22.4	6	5.6	17	14	MMS-HY-04540
M1/4NPT-FS3/8NPT 90°	1/4-18	3/8-18	31	25.1	6	8.7	22	19	MMS-HY-04541
M3/8NPT-FS1/4NPT 90°	3/8-18	1/4-18	31	24.6	9	5.6	17	19	MMS-HY-04542
M3/8NPT-FS3/8NPT 90°	3/8-18	3/8-18	31	25.1	9	8.7	22	19	MMS-HY-04543
M3/8NPT-FS1/2NPT 90°	3/8-18	1/2-14	32.5	27.4	9	11.9	27	22	MMS-HY-04544
M1/2NPT-FS3/8NPT 90°	1/2-14	3/8-18	37.3	27	12	8.7	22	22	MMS-HY-04545
M1/2NPT-FS1/2NPT 90°	1/2-14	1/2-14	37.3	27.4	12	11.9	27	22	MMS-HY-04546
M1/2NPT-FS3/4NPT 90°	1/2-14	3/4-14	40.4	33	12	16.3	32	27	MMS-HY-04547
M3/4NPT-FS3/8NPT 90°	3/4-14	3/8-18	40.4	27.4	16.5	8.7	27	27	MMS-HY-04548
M3/4NPT-FS1/2NPT 90°	3/4-14	1/2-14	40.4	30.5	16.5	11.9	27	27	MMS-HY-04549
M3/4NPT-FS3/4NPT 90°	3/4-14	3/4-14	40.4	33	16.5	16.3	32	27	MMS-HY-04550
M3/4NPT-FS1 NPT 90°	3/4-14	1-11.5	45.1	37.2	16.5	21.4	38	33	MMS-HY-04551
M1 NPT-FS3/4NPT 90°	1-11.5	3/4-14	50	37.2	21.5	16.3	32	33	MMS-HY-04552
M1 NPT-FS1 NPT 90°	1-11.5	1-11.5	50	37.2	21.5	21.4	38	33	MMS-HY-04553
M1 1/4NPT-FS1 1/4NPT 90°	1 1/4-11.5	1 1/4-11.5	60.5	44.7	28.5	29	50	41	MMS-HY-04554
M2 NPT-FS2 NPT 90°	1 1/2-11.5	1 1/2-11.5	67.1	51.3	35	34.5	55	48	MMS-HY-04555

90° ADAPTOR - ADJUSTABLE MALE SAE / FEMALE SWIVEL NPT

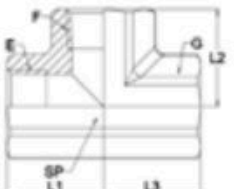


Description	E SAE	F NPT	L1 mm	L2 mm	d1 mm	d2 mm	H1 mm	H2 mm	SP	REF
M7/16UNF OR-FS1/4NPT 90°	7/16-20	1/4-18	27.2	24.5	4.4	5.6	17	19	17.5	MMS-HY-04556
M9/16UNF OR-FS1/4NPT 90°	9/16-18	1/4-18	31	22.4	7.5	5.6	19	17	14	MMS-HY-04557
M9/16UNF OR-FS3/8NPT 90°	9/16-18	3/8-18	33	28.2	7.5	9	19	22	19	MMS-HY-04558
M3/4UNF OR-FS3/8NPT 90°	3/4-16	3/8-18	36.5	29.2	9.5	11.5	22	24	22	MMS-HY-04559
M3/4UNF OR-FS1/2NPT 90°	3/4-16	1/2-14	37.5	31.8	12.3	12.3	24	27	25.4	MMS-HY-04560
M3/4UNF OR-FS3/4NPT 90°	3/4-16	3/4-14	41.2	39.5	10	15.5	22	32	32	MMS-HY-04561
M7/8UNF OR-FS3/8NPT 90°	7/8-14	3/8-18	42	30.5	12.3	7.9	27	22	25.4	MMS-HY-04562
M7/8UNF OR-FS1/2NPT 90°	7/8-14	1/2-14	44	35.5	12	11.2	27	27	22	MMS-HY-04563
M7/8UNF OR-FS3/4NPT 90°	7/8-14	3/4-14	46.7	35.3	12.3	15.5	27	32	27	MMS-HY-04564
M1 1/16UNF OR-FS1/2NPT 90°	1 1/16-12	1/2-14	50	30.5	15.5	11.9	32	27	27	MMS-HY-04565
M1 1/16UNF OR-FS3/4NPT 90°	1 1/16-12	3/4-14	51	39.5	16.5	15.5	32	32	27	MMS-HY-04566
M1 5/16UNF OR-FS1 NPT 90°	1 5/16-12	1-11.5	54.5	47.5	21.5	20.4	41	41	33	MMS-HY-04567

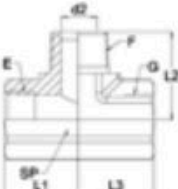
L ADAPTOR - MALE NPT / FEMALE NPT / FEMALE NPT

	Description	E	F	G	L1	L2	L3	d1	SP	REF
		NPT	NPT	NPT	mm	mm	mm	mm		
	M1/8NPT-F1/8NPT-F1/8NPT	1/8-27	1/8-27	1/8-27	19.8	16.8	16.8	4.5	14	MMS-HY-04568
	M1/4NPT-F1/4NPT-F1/4NPT	1/4-19	1/4-19	1/4-19	29	23.3	23.3	6	19	MMS-HY-04569
	M3/8NPT-F3/8NPT-F3/8NPT	3/8-19	3/8-19	3/8-19	31	25.9	25.9	9	22	MMS-HY-04570
	M1/2NPT-F1/2NPT-F1/2NPT	1/2-14	1/2-14	1/2-14	37.3	31.2	31.2	12	27	MMS-HY-04571
	M3/4NPT-F3/4NPT-F3/4NPT	3/4-14	3/4-14	3/4-14	40.4	34.5	34.5	16.5	33	MMS-HY-04572
	M1 NPT-F1 NPT-F1 NPT	1-11.5	1-11.5	1-11.5	50	41.1	41.1	21.5	41	MMS-HY-04573

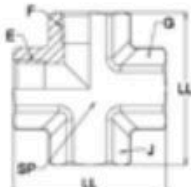
T ADAPTOR - FEMALE NPT / FEMALE NPT / FEMALE NPT

	Description	E	F	G	L1	L2	L3	SP	REF
		NPT	NPT	NPT	mm	mm	mm		
	F1/8NPT-F1/8NPT-F1/8NPT	1/8-27	1/8-27	1/8-27	16.8	16.8	16.8	14	MMS-HY-04574
	F1/4NPT-F1/4NPT-F1/4NPT	1/4-19	1/4-19	1/4-19	22.4	22.4	22.4	19	MMS-HY-04575
	F3/8NPT-F3/8NPT-F3/8NPT	3/8-19	3/8-19	3/8-19	25.9	25.9	25.9	22	MMS-HY-04576
	F1/2NPT-F1/2NPT-F1/2NPT	1/2-14	1/2-14	1/2-14	31.2	31.2	31.2	27	MMS-HY-04577
	F3/4NPT-F3/4NPT-F3/4NPT	3/4-14	3/4-14	3/4-14	34.5	34.5	34.5	33	MMS-HY-04578
	F1 NPT-F1 NPT-F1 NPT	1-11.5	1-11.5	1-11.5	41.1	41.1	41.1	41	MMS-HY-04579
	F1 1/4NPT-F1 1/4NPT-F1 1/4NPT	1 1/4-11.5	1 1/4-11.5	1 1/4-11.5	43.2	43.2	43.2	48	MMS-HY-04580

T ADAPTOR - FEMALE NPT / MALE NPT / FEMALE NPT

	Description	E	F	G	L1	L2	L3	d2	SP	REF
		NPT	NPT	NPT	mm	mm	mm	mm		
	F1/8NPT-M1/8NPT-F1/8NPT	1/8-27	1/8-27	1/8-27	16.8	19.8	16.8	4.5	14	MMS-HY-04581
	F1/4NPT-M1/4NPT-F1/4NPT	1/4-19	1/4-19	1/4-19	22.4	27.7	22.4	6	19	MMS-HY-04582
	F3/8NPT-M3/8NPT-F3/8NPT	3/8-19	3/8-19	3/8-19	25.9	31	25.9	9	22	MMS-HY-04583
	F1/2NPT-M1/2NPT-F1/2NPT	1/2-14	1/2-14	1/2-14	31.2	37.3	31.2	12	27	MMS-HY-04584
	F3/4NPT-M3/4NPT-F3/4NPT	3/4-14	3/4-14	3/4-14	34.5	40.4	34.5	16.5	33	MMS-HY-04585
	F1 NPT-M1 NPT-F1 NPT	1-11.5	1-11.5	1-11.5	41.1	50	41.1	21.5	41	MMS-HY-04586

CROSS ADAPTOR - FEMALE NPT / FEMALE NPT / FEMALE NPT / FEMALE NPT

	Description	E	F	G	J	LL	SP	REF
		NPT	NPT	NPT	NPT	mm		
	F1/8NPT-F1/8NPT-F1/8NPT-F1/8NPT	1/8-27	1/8-27	1/8-27	1/8-27	33.6	14	MMS-HY-04587
	F1/4NPT-F1/4NPT-F1/4NPT-F1/4NPT	1/4-18	1/4-18	1/4-18	1/4-18	44.8	19	MMS-HY-04588
	F3/8NPT-F3/8NPT-F3/8NPT-F3/8NPT	3/8-18	3/8-18	3/8-18	3/8-18	51.8	22	MMS-HY-04589
	F1/2NPT-F1/2NPT-F1/2NPT-F1/2NPT	1/2-14	1/2-14	1/2-14	1/2-14	62.4	27	MMS-HY-04590
	F3/4NPT-F3/4NPT-F3/4NPT-F3/4NPT	3/4-14	3/4-14	3/4-14	3/4-14	69	33	MMS-HY-04591
	F1 NPT-F1 NPT-F1 NPT-F1 NPT	1-11.5	1-11.5	1-11.5	1-11.5	82.2	41	MMS-HY-04592

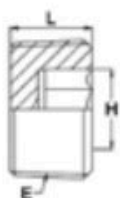
ADAPTORS TYPE NPT

PLUG - MALE NPT



Description	E NPT	L mm	LL mm	D mm	H mm	REF
BM1/8NPT HEX	1/8-27	9.7	14.2	4.5	11	MMS-HY-04593
BM1/4NPT HEX	1/4-18	14.2	19	6	14	MMS-HY-04594
BM3/8NPT HEX	3/8-18	14.2	19.8	9	19	MMS-HY-04595
BM1/2NPT HEX	1/2-14	19	24.6	12	22	MMS-HY-04596
BM3/4NPT HEX	3/4-14	19	26.9	16.5	27	MMS-HY-04597
BM1NPT HEX	1-11.5	23.9	31.7	21.5	36	MMS-HY-04598
BM1 1/4NPT HEX	1 1/4-11.5	24.6	36.6	28.5	46	MMS-HY-04599

PLUG - MALE NPT COUNTERSUNK HEXAGON

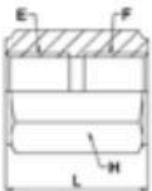


Description	E NPT	L mm	H mm	REF
BM1/8NPT UMB	1/8-27	8	5	MMS-HY-04600
BM1/4NPT UMB	1/4-18	12	6	MMS-HY-04601
BM3/8NPT UMB	3/8-18	12	8	MMS-HY-04602
BM1/2NPT UMB	1/2-14	16	10	MMS-HY-04603
BM3/4NPT UMB	3/4-14	16.5	12	MMS-HY-04604
BM1NPT UMB	1-11.5	20	17	MMS-HY-04605

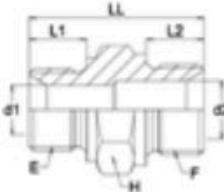
NOTES

ADAPTORS TYPE METRIC

ADAPTOR - FEMALE METRIC FIX / FEMALE METRIC FIX

	Description	E METRIC	F METRIC	L mm	H mm	REF
	FM12x1.5-FM12x1.5	M12x1.5	M12x1.5	29	17	MMS-HY-04606
	FM14x1.5-FM14x1.5	M14x1.5	M14x1.5	30	19	MMS-HY-04607
	FM16x1.5-FM16x1.5	M16x1.5	M16x1.5	29	22	MMS-HY-04608
	FM18x1.5-FM18x1.5	M18x1.5	M18x1.5	29	24	MMS-HY-04609
	FM20x1.5-FM20x1.5	M20x1.5	M20x1.5	30	27	MMS-HY-04610
	FM22x1.5-FM22x1.5	M22x1.5	M22x1.5	30.5	27	MMS-HY-04611

ADAPTOR - MALE METRIC 60° / MALE METRIC 60°

	Description	E METRIC	F METRIC	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
	MM10x1-MM10x1	M10x1.0	M10x1.0	8	8	24	3	3	14	MMS-HY-04612
	MM10x1.5-MM10x1.5	M10x1.5	M10x1.5	8	8	24.5	3	3	14	MMS-HY-04613
	MM10x1-MM12x1	M10x1.0	M12x1.0	8	8	25.5	3	3	17	MMS-HY-04614
	MM10x1-MM12x1.5	M10x1.0	M12x1.5	8	10	26	3	4	17	MMS-HY-04615
	MM10x1-MM18x1.5	M10x1.5	M18x1.5	8	10	27.5	3	4	17	MMS-HY-04616
	MM12x1.5-MM12x1.5	M12x1.5	M12x1.5	10	10	28	4	4	17	MMS-HY-04617
	MM12x1.5-MM14x1.5	M12x1.5	M14x1.5	10	11	29	4	6	19	MMS-HY-04618
	MM14x1.5-MM14x1.5	M14x1.5	M14x1.5	11	11	30	6	6	19	MMS-HY-04619
	MM14x1.5-MM16x1.5	M14x1.5	M16x1.5	12	12	36	6	8	22	MMS-HY-04620
	MM14x1.5-MM18x1.5	M14x1.5	M18x1.5	12	12	36.5	6	10	24	MMS-HY-04621
	MM16x1.5-MM16x1.5	M16x1.5	M16x1.5	12	12	32	8	8	22	MMS-HY-04622
	MM16x1.5-MM18x1.5	M16x1.5	M18x1.5	12	12	34	8	10	24	MMS-HY-04623
	MM16x1.5-MM20x1.5	M16x1.5	M20x1.5	12	14	39.5	8	12	27	MMS-HY-04624
	MM16x1.5-MM22x1.5	M16x1.5	M22x1.5	12	14	40	8	14.1	27	MMS-HY-04625
	MM18x1.5-MM18x1.5	M18x1.5	M18x1.5	12	12	34	10	10	24	MMS-HY-04626
	MM18x1.5-MM20x1.5	M18x1.5	M20x1.5	12	14	40	10	12	27	MMS-HY-04627
	MM18x1.5-MM22x1.5	M18x1.5	M22x1.5	12	14	38	10	14	27	MMS-HY-04628
	MM20x1.5-MM20x1.5	M20x1.5	M20x1.5	14	14	42	12	12	27	MMS-HY-04629
	MM20x1.5-MM22x1.5	M20x1.5	M22x1.5	14	14	38	12	14	27	MMS-HY-04630
	MM22x1.5-MM22x1.5	M22x1.5	M22x1.5	14	14	38	14.1	14.1	27	MMS-HY-04631
	MM22x1.5-MM26x1.5	M22x1.5	M26x1.5	14	16	45	14.1	15	32	MMS-HY-04632
	MM26x1.5-MM26x1.5	M26x1.5	M26x1.5	16	16	45	15	15	32	MMS-HY-04633
	MM26x1.5-MM30x1.5	M26x1.5	M30x1.5	16	16	48	15	19	36	MMS-HY-04634
	MM30x1.5-MM30x1.5	M30x1.5	M30x1.5	18	18	49	19	19	36	MMS-HY-04635

ADAPTOR - MALE METRIC 60° / FEMALE SWIVEL METRIC 60°

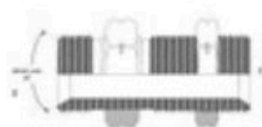
	Description	E METRIC	F METRIC	REF
	MM12x1.5-FSM12x1.5	M12x1.5	M12x1.5	MMS-HY-04636
	MM14x1.5-FSM14x1.5	M14x1.5	M14x1.5	MMS-HY-04637
	MM16x1.5-FSM16x1.5	M16x1.5	M16x1.5	MMS-HY-04638
	MM16x1.5-FSM18x1.5	M16x1.5	M18x1.5	MMS-HY-04639
	MM18x1.5-FSM16x1.5	M18x1.5	M16x1.5	MMS-HY-04640
	MM18x1.5-FSM18x1.5	M18x1.5	M18x1.5	MMS-HY-04641
	MM18x1.5-FSM20x1.5	M18x1.5	M20x1.5	MMS-HY-04642
	MM18x1.5-FSM22x1.5	M18x1.5	M22x1.5	MMS-HY-04643
	MM20x1.5-FSM18x1.5	M20x1.5	M18x1.5	MMS-HY-04644
	MM20x1.5-FSM20x1.5	M20x1.5	M20x1.5	MMS-HY-04645
	MM20x1.5-FSM22x1.5	M20x1.5	M22x1.5	MMS-HY-04646

ADAPTOR - MALE METRIC 60° / FEMALE SWIVEL METRIC 60°

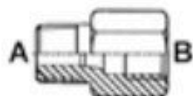
Description	E METRIC	F METRIC	REF
MM22x1.5-FSM18x1.5	M22x1.5	M18x1.5	MMS-HY-04647
MM22x1.5-FSM18x1.5	M22x1.5	M20x1.5	MMS-HY-04648
MM22x1.5-FSM22x1.5	M22x1.5	M22x1.5	MMS-HY-04649

ADAPTOR - MALE METRIC / MALE METRIC BULKHEAD 60° CONE + LOCKNUT

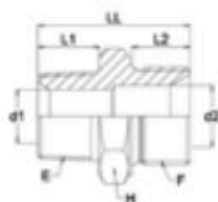
Description	E METRIC	F METRIC	REF
MM22x1.5-MM22x1.5 BL	M22x1.5	M22x1.5	MMS-HY-04650
MM24x1.5-MM24x1.5 BL	M24x1.5	M24x1.5	MMS-HY-04651

**ADAPTOR - MALE METRIC DIN 60° / FEMALE METRIC**

Description	A METRIC	B METRIC	REF
MM8x1.5-FM10x1.5	M8x1.5	M10x1.5	MMS-HY-04652

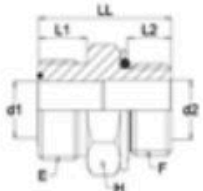
**ADAPTOR - MALE NPT / MALE METRIC DIN 60°**

Description	E NPT	F METRIC	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M1/8NPT-MM12x1.5	1/8-27	M12x1.5	12	10	30	4.4	4.4	17	MMS-HY-04653
M1/8NPT-MM14x1.5	1/8-27	M14x1.5	12	12	30	6	4.4	17	MMS-HY-04654
M1/4NPT-MM14x1.5	1/4-18	M14x1.5	14.2	12	36	6	6	19	MMS-HY-04655
M1/4NPT-MM16x1.5	1/4-18	M16x1.5	14.2	12	36	6	8	22	MMS-HY-04656
M3/8NPT-MM16x1.5	3/8-18	M16x1.5	14.2	12	36	8	8	22	MMS-HY-04657
M3/8NPT-MM18x1.5	3/8-18	M18x1.5	14.2	12	37	9	9	24	MMS-HY-04658
M3/8NPT-MM22x1.5	3/8-18	M22x1.5	14.2	12	38	10	10	24	MMS-HY-04659
M1/2NPT-MM18x1.5	1/2-14	M18x1.5	19	12	40	12	12	27	MMS-HY-04660
M1/2NPT-MM22x1.5	1/2-14	M22x1.5	19	14	45	12	14.1	27	MMS-HY-04661
M3/4NPT-MM26x1.5	3/4-14	M26x1.5	19	16	45	16.5	14.1	27	MMS-HY-04662
M3/4NPT-MM30x1.5	3/4-14	M30x1.5	19	16	48	16.5	19	36	MMS-HY-04663
M1 NPT-MM30x1.5	1-11.5	M30x1.5	23.9	16	53	21.5	19	36	MMS-HY-04664
M1 NPT-MM38x1.5	1-11.5	M38x1.5	23.9	20	60	24	26	40	MMS-HY-04665
M1 1/2NPT-MM45x1.5	1 1/4-11.5	M45x1.5	24.9	20	62.5	28.5	32	55	MMS-HY-04666
M1 1/2NPT-MM52x1.5	1 1/4-11.5	M45x1.5	24.9	24	64	28.5	36	55	MMS-HY-04667



ADAPTORS TYPE METRIC

ADAPTOR - MALE ORFS / MALE METRIC + RETAINING RING

	Description	E ORFS	F METRIC	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
	M9/16ORFS-MM12x1.5	9/16-18	M12x1.5	9.8	11	28.5	4	4	17	MMS-HY-04668
	M9/16ORFS-MM14x1.5	9/16-18	M14x1.5	9.8	11	29.3	4.5	6	19	MMS-HY-04669
	M11/16ORFS-MM14x1.5	11/16-16	M14x1.5	11.2	11	32	6	6	19	MMS-HY-04670
	M11/16ORFS-MM16x1.5	11/16-16	M16x1.5	11.2	12.5	33.5	6.5	6.5	22	MMS-HY-04671
	M13/16ORFS-MM18x1.5	13/16-16	M18x1.5	12.8	14	38	9	9	24	MMS-HY-04672
	M13/16ORFS-MM22x1.5	13/16-16	M22x1.5	12.8	15	39.3	9.5	12	27	MMS-HY-04673
	M1 ORFS-MM22x1.5	1-14	M22x1.5	15.5	15	42	12	12	27	MMS-HY-04674
	M1 ORFS-MM27x2	1-14	M27x2.0	15.5	18.5	47	12.5	15	32	MMS-HY-04675
	M1 13/16ORFS-MM27x2	1 3/16-12	M27x2.0	17	18.5	48.5	15	15	32	MMS-HY-04676
	M1 7/16ORFS-MM33x2	1 7/16-12	M33x2.0	17.5	18.5	52	20	20	41	MMS-HY-04677
	M1 11/16ORFS-MM42x2	1 11/16-12	M42x2.0	17.5	19	54.5	26	26	50	MMS-HY-04678
	M2 ORFS-MM48x2	2-12	M48x2.0	17.5	21.5	57	32	32	55	MMS-HY-04679

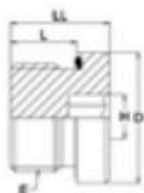
ADAPTOR - BANJO METRIC - MALE METRIC 60°

	Description	A Ø Banjo Eye	B METRIC	REF
	BANJO EYE10-MM12x1.5	10	M12x1.5	MMS-HY-04680
	BANJO EYE12-MM14x1.5	12	M14x1.5	MMS-HY-04681
	BANJO EYE14-MM16x1.5	14	M16x1.5	MMS-HY-04682
	BANJO EYE16-MM16x1.5	16	M16x1.5	MMS-HY-04683
	BANJO EYE16-MM18x1.5	16	M18x1.5	MMS-HY-04684
	BANJO EYE18-MM22x1.5	18	M22x1.5	MMS-HY-04685
	BANJO EYE22-MM26x1.5	22	M26x1.5	MMS-HY-04686
	BANJO EYE26-MM30x1.5	26	M30x1.5	MMS-HY-04687

LOCK NUT - FEMALE METRIC BULKHEAD

	Description	E METRIC	D TUBE	L mm	H mm	REF
	NUTM12x1.5 BL	M12x1.5	6L	6	17	MMS-HY-04688
	NUTM14x1.5 BL	M14x1.5	8L/6S	6	19	MMS-HY-04689
	NUTM16x1.5 BL	M16x1.5	10L/8S	6	22	MMS-HY-04690
	NUTM18x1.5 BL	M18x1.5	12L/10S	6	24	MMS-HY-04691
	NUTM22x1.5 BL	M22x1.5	15L/14S	7	30	MMS-HY-04692
	NUTM24x1.5 BL	M24x1.5	16S/17G	7	32	MMS-HY-04693
	NUTM26x1.5 BL	M26x1.5	18L	8	36	MMS-HY-04694

PLUG - MALE METRIC CAPTIVE SEAL COUNTERSUNK HEXAGON

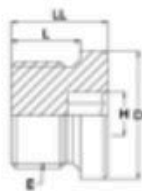
	Description	E METRIC	L mm	LL mm	D mm	H mm	REF
	BMM10x1 ED UMB	M10x1	8	12.3	14	5	MMS-HY-04695
	BMM12x1.5 ED UMB	M12x1.5	12	17.3	17	6	MMS-HY-04696
	BMM14x1.5 ED UMB	M14x1.5	12	17.3	19	6	MMS-HY-04697
	BMM16x1.5 ED UMB	M16x1.5	12	17.3	22	8	MMS-HY-04698
	BMM18x1.5 ED UMB	M18x1.5	12	17.3	24	8	MMS-HY-04699
	BMM20x1.5 ED UMB	M20x1.5	14	19.3	26	10	MMS-HY-04700
	BMM22x1.5 ED UMB	M22x1.5	14	19.3	27	10	MMS-HY-04701
	BMM24x1.5 ED UMB	M24x1.5	14	19	29	10	MMS-HY-04702
	BMM26x1.5 ED UMB	M26x1.5	16	21.3	32	12	MMS-HY-04703

PLUG - MALE METRIC CAPTIVE SEAL COUNTERSUNK HEXAGON

Description	E METRIC	L mm	LL mm	D mm	H mm	REF
BMM27x2 ED UMB	M27x2	16	21.3	32	12	MMS-HY-04704
BMM33x2 ED UMB	M33x2	16	22.8	40	17	MMS-HY-04705
BMM42x2 ED UMB	M42x2	16	22.8	50	22	MMS-HY-04706

PLUG - MALE METRIC COUNTERSUNK HEXAGON

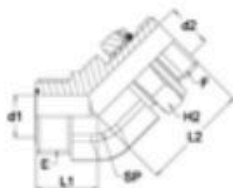
Description	E METRIC	L mm	LL mm	D mm	H mm	REF
BMM10x1 UMB	M10x1	8	12	14	5	MMS-HY-04707
BMM12x1.5 UMB	M12x1.5	12	15	17	6	MMS-HY-04708
BMM14x1.5 UMB	M14x1.5	12	15	19	6	MMS-HY-04709
BMM16x1.5 UMB	M16x1.5	12	15	22	8	MMS-HY-04710
BMM18x1.5 UMB	M18x1.5	12	16.5	24	8	MMS-HY-04711
BMM20x1.5 UMB	M20x1.5	14	18	25	10	MMS-HY-04712
BMM22x1.5 UMB	M22x1.5	14	18	29	10	MMS-HY-04713
BMM24x1.5 UMB	M24x1.5	14	18	30	12	MMS-HY-04714
BMM26x1.5 UMB	M26x1.5	16	21	32	12	MMS-HY-04715
BMM30x1.5 UMB	M30x1.5	18	23	36	16	MMS-HY-04716
BMM30x2 UMB	M30x2	16	20	36	17	MMS-HY-04717
BMM36x1.5 UMB	M36x1.5	15.5	21	42	19	MMS-HY-04718
BMM42x2 UMB	M42x2	16	21	49	22	MMS-HY-04719
BMM48x2.5 UMB	M48x2.5	15.5	21	55	24	MMS-HY-04720
BMM52x1.5 UMB	M52x1.5	16.5	21	60	24	MMS-HY-04721

**PLUG - MALE METRIC**

Description	E METRIC	L mm	LL mm	D mm	H mm	REF
BMM8x1.5 HEX	M8x1.5	8	12	4	14	MMS-HY-04722
BMM12x1.5 HEX	M12x1.5	10	19	4	17	MMS-HY-04723
BMM14x1.5 HEX	M14x1.5	12	22	6	19	MMS-HY-04724
BMM16x1.5 HEX	M16x1.5	12	22	8	22	MMS-HY-04725
BMM18x1.5 HEX	M18x1.5	12	22.5	10	24	MMS-HY-04726
BMM22x1.5 HEX	M22x1.5	14	26	14.1	27	MMS-HY-04727
BMM24x1.5 HEX	M24x1.5	14	26	16	30	MMS-HY-04728

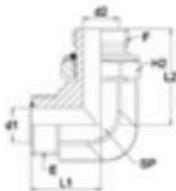
**45° ADAPTOR - MALE ORFS / MALE METRIC + O-RING**

Description	E ORFS	F METRIC	L1 mm	L2 mm	d1 mm	d2 mm	H2 mm	SP	REF
M9/16ORFS-MM12x1.5 OR 45°	9/16-18	M12x1.5	18.3	28.5	5	5	16	14	MMS-HY-04729
M11/16ORFS-MM14x1.5 OR 45°	11/16-16	M14x1.5	20.5	29.5	6.5	6.5	19	19	MMS-HY-04730
M11/16ORFS-MM16x1.5 OR 45°	11/16-16	M16x1.5	20.5	29	6.5	7.5	22	19	MMS-HY-04731
M13/16ORFS-MM18x1.5 OR 45°	13/16-16	M18x1.5	20.5	36.5	9.5	9	24	20	MMS-HY-04732
M1 3/16ORFS-MM27x2 OR 45°	1 3/16-12	M27x2	25.9	50.2	15.5	15	32	30	MMS-HY-04733



ADAPTORS TYPE METRIC

90° ADAPTOR - MALE ORFS / MALE METRIC + O-RING

	Description	E	F	L1	L2	d1	d2	H2	SP	REF
		ORFS	METRIC	mm	mm	mm	mm	mm		
	M9/16ORFS-MM12x1.5 OR 90°	9/16-18	M12x1.5	23	32	4.5	4	17	14	MMS-HY-04734
	M9/16ORFS-MM14x1.5 OR 90°	9/16-18	M14x1.5	23	35.5	4.5	6.5	17	17	MMS-HY-04735
	M11/16ORFS-MM14x1.5 OR 90°	11/16-16	M14x1.5	27	35.5	6.5	6	19	19	MMS-HY-04736
	M11/16ORFS-MM16x1.5 OR 90°	11/16-16	M16x1.5	27	36	6.5	6.5	22	19	MMS-HY-04737
	M13/16ORFS-MM18x1.5 OR 90°	13/16-16	M18x1.5	28	41	9.5	11	24	19	MMS-HY-04738
	M1 ORFS-MM22x1.5 OR 90°	1-14	M22x1.5	36.5	43.5	12.5	12	27	27	MMS-HY-04739
	M1 3/16ORFS-MM27x2 OR 90°	1 3/16-12	M27x2.0	40.3	60	15.5	18	32	30	MMS-HY-04740
	M1 7/16ORFS-MM33x2 OR 90°	1 7/16-12	M33x2.0	42.3	60	20.5	20	41	37	MMS-HY-04741
	M1 11/16ORFS-MM42x2 OR 90°	1 11/16-12	M42x2.0	44.7	63	26	27.5	50	41	MMS-HY-04742
	M2 ORFS-MM48x2 OR 90°	2-12	M48x2.0	48.8	71.5	32	32	55	48	MMS-HY-04743

NOTES

ADAPTORS TYPE ARELCO

ADAPTOR - FEMALE BSP FIX / FEMALE SWIVEL CUTTING RING

	Description	A BSP	B METRIC	REF
	F1/2BSP-FS12L	1/2-14	M18x1.5	MMS-HY-04744
	F1/2BSP-FS13N	1/2-14	M20x1.5	MMS-HY-04745

ADAPTOR - FEMALE SWIVEL CUTTING RING / MALE JIC RENAULT

	Description	A METRIC	B JIC	REF
	FS13N-M9/16JIC RENAULT	M20x1.5	9/16-18	MMS-HY-04746
	FS13N-M3/4JIC RENAULT	M20x1.5	3/4-16	MMS-HY-04747

ADAPTOR - FEMALE SWIVEL CUTTING RING / MALE JIC JOHN DEERE

	Description	A METRIC	B JIC	REF
	FS13N-M3/4JIC JD	M20x1.5	3/4-16	MMS-HY-04748

ADAPTOR - FEMALE SWIVEL CUTTING RING / MALE METRIC 60°

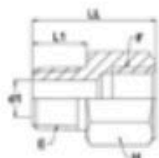
	Description	A METRIC	B METRIC	REF
	FS13N-M22x1.5	M20x1.5	M22x1.5	MMS-HY-04749

ADAPTOR - FEMALE SWIVEL CUTTING RING / MALE SAE

	Description	A METRIC	B SAE	REF
	FS13N-M9/16SAE	M20x1.5	9/16-18	MMS-HY-04750
	FS13N-M3/4SAE	M20x1.5	3/4-16	MMS-HY-04751

ADAPTOR - FEMALE SWIVEL CUTTING RING / MALE CUTTING RING

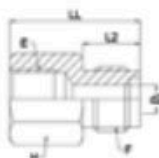
Description	A METRIC	B mm	C	REF
FS13N-M12L	M20x1.5	13	M18x1.5	MMS-HY-04752

ADAPTOR - MALE BSPT / FEMALE ARELCO

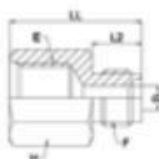
Description	E BSPT	F ARELCO	L1 mm	LL mm	d1 mm	H mm	REF
M3/8BSPT-F ARELCO M18x1.5	3/8-19	M18x1.5	15	33.5	10	24	MMS-HY-04753
M1/2BSPT-F ARELCO M18x1.5	1/2-14	M18x1.5	19	37.5	13	24	MMS-HY-04754

ADAPTOR - MALE SAE / FEMALE ARELCO

Description	E SAE	F ARELCO	L1 mm	LL mm	d1 mm	H mm	REF
M9/16UNF-F ARELCO M18x1.5	9/16-18	M18x1.5	9.9	29	7.5	24	MMS-HY-04755
M3/4UNF-F ARELCO M18x1.5	3/4-16	M18x1.5	11.1	30	9.9	24	MMS-HY-04756
M7/8UNF-F ARELCO M18x1.5	7/8-14	M18x1.5	12.7	32	12	27	MMS-HY-04757

ADAPTOR - FEMALE BSP FIX / MALE ARELCO

Description	E BSP	F ARELCO	L2 mm	LL mm	d2 mm	H mm	REF
F1/4BSP-M ARELCO M18x1.5	1/4-19	M18x1.5	16	35	8	19	MMS-HY-04758
F3/8BSP-M ARELCO M18x1.5	3/8-19	M18x1.5	16	36.5	8	22	MMS-HY-04759
F1/2BSP-M ARELCO M18x1.5	1/2-14	M18x1.5	16	41.5	8	27	MMS-HY-04760
F1 BSP-M ARELCO M18x1.5	1-11	M18x1.5	16	41.5	8	41	MMS-HY-04761

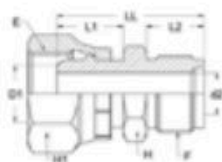
ADAPTOR - FEMALE SAE FIX / MALE ARELCO

Description	E SAE	F ARELCO	L2 mm	LL mm	d2 mm	H mm	REF
FSAE9/16-M ARELCO M18x1.5	9/16-18	M18x1.5	16	32	8	19	MMS-HY-04762
FSAE3/4-M ARELCO M18x1.5	3/4-16	M18x1.5	16	39	8	24	MMS-HY-04763
FSAE7/8-M ARELCO M18x1.5	7/8-14	M18x1.5	16	43	8	27	MMS-HY-04764

ADAPTORS TYPE ARELCO

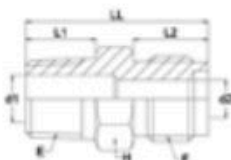
ADAPTOR - FEMALE SWIVEL 24° / MALE ARELCO

Description	E 24°	F ARELCO	D1	L1 mm	L2 mm	LL mm	d2 mm	H mm	H1 mm	REF
FS12L-M ARELCO M18x1.5	M18x1.5	M18x1.5	12L	14.5	16	38.5	8	19	27	MMS-HY-04765
FS13N-M ARELCO M18x1.5	M20x1.5	M18x1.5	13G	15	16.3	39	8	22	27	MMS-HY-04766
FS15L-M ARELCO M18x1.5	M22x1.5	M18x1.5	15L	15.5	17.5	39.5	8	27	32	MMS-HY-04767
FS17N-M ARELCO M18x1.5	M24x1.5	M18x1.5	17G	16	18	40	8	41	32	MMS-HY-04768



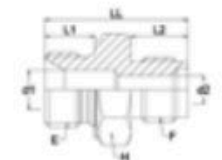
ADAPTOR - MALE BSPT / MALE ARELCO

Description	E BSPT	F ARELCO	REF
M1/4BSPT-M ARELCO M18x1.5	1/4	M18x1.5	MMS-HY-04769
M3/8BSPT-M ARELCO M18x1.5	3/8-19	M18x1.5	MMS-HY-04770
M1/2BSPT-M ARELCO M18x1.5	1/2-14	M18x1.5	MMS-HY-04771



ADAPTOR - MALE BSP / MALE ARELCO

Description	E BSP	F ARELCO	L1 mm	L2 mm	LL mm	d1 mm	d2 mm	H mm	REF
M3/8BSP-M ARELCO M18x1.5	3/8-19	M18x1.5	12	16	37	7.9	7.9	22	MMS-HY-04772
M1/2BSP-M ARELCO M18x1.5	1/2-14	M18x1.5	14	16	40	11.1	8	27	MMS-HY-04773
M3/4BSP-M ARELCO M18x1.5	3/4-14	M18x1.5	16	16	41	16.7	8	32	MMS-HY-04774
M1 BSP-M ARELCO M18x1.5	1-11	M18x1.5	19	16	45	22.2	8	41	MMS-HY-04775



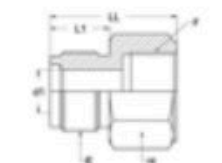
ADAPTOR - MALE 24° / MALE ARELCO

Description	E 24°	F ARELCO	D1 Tube	L1 mm	L2 mm	d2 mm	H mm	REF
M8L-M ARELCO M18x1.5	M14x1.5	M18x1.5	8L	11	16	8	19	MMS-HY-04776
M10L-M ARELCO M18x1.5	M16x1.5	M18x1.5	10L	12	16	8	19	MMS-HY-04777
M12L-M ARELCO M18x1.5	M18x1.5	M18x1.5	12L	12	16	8	19	MMS-HY-04778
M13N-M ARELCO M18x1.5	M20x1.5	M18x1.5	13G	11	16	8	22	MMS-HY-04779
M15L-M ARELCO M18x1.5	M22x1.5	M18x1.5	15L	13	16	8	22	MMS-HY-04780
M17N-M ARELCO M18x1.5	M24x1.5	M18x1.5	17G	12	16	8	27	MMS-HY-04781



ADAPTOR - MALE ARELCO / FEMALE ARELCO

Description	E ARELCO	F METRIC	L1 mm	LL mm	d1 mm	H mm	REF
M ARELCO M18x1.5-F ARELCO M18x1.5	M18x1.5	M18x1.5	16	34.5	8	24	MMS-HY-04782
M ARELCO M18x1.5-F ARELCO M24x1.5	M24x1.5	M18x1.5	18	36	12	24	MMS-HY-04783



NOTES





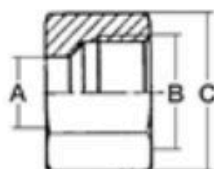
06.

CUTTING RING FITTINGS

CUTTING RING FITTINGS

NUT FOR CUTTING RING

Description	A mm	B	C mm	REF
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ULTRA-LIGHT

M 04 LL	4	M8x1.0	10	MMS-HY-04784
M 05 LL	5	M10x1.0	12	MMS-HY-04785
M 06 LL	6	M10x1.0	12	MMS-HY-04786
M 08 LL	8	M12x1.0	14	MMS-HY-04787
M 10 LL	10	M14x1.0	17	MMS-HY-04788
M 12 LL	12	M16x1.0	19	MMS-HY-04789

LIGHT

M 06 L	6	M12x1.5	14	MMS-HY-04790
M 08 L	8	M14x1.5	17	MMS-HY-04791
M 10 L	10	M16x1.5	19	MMS-HY-04792
M 12 L	12	M18x1.5	22	MMS-HY-04793
M 13 L	13	M20x1.5	24	MMS-HY-04794
M 14 L	14	M20x1.5	27	MMS-HY-04795
M 15 L	15	M22x1.5	27	MMS-HY-04796
M 17 L	17	M24x1.5	30	MMS-HY-04797
M 18 L	18	M26x1.5	32	MMS-HY-04798

Description	A mm	B	C mm	REF
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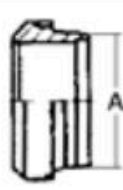
M 20 L	20	M27x1.5	32	MMS-HY-04799
M 21 L	21	M30x1.5	36	MMS-HY-04800
M 22 L	22	M30x2.0	36	MMS-HY-04801
M 27 L	27	M36x1.5	42	MMS-HY-04802
M 28 L	28	M36x2.0	46	MMS-HY-04803
M 33 L	33	M45x1.5	55	MMS-HY-04804
M 35 L	35	M45x2.0	55	MMS-HY-04805
M 42 L	42	M52x2.0	60	MMS-HY-04806

HEAVY-DUTY

M 06 S	6	M14x1.5	17	MMS-HY-04807
M 08 S	8	M16x1.5	19	MMS-HY-04808
M 10 S	10	M18x1.5	22	MMS-HY-04809
M 12 S	12	M20x1.5	24	MMS-HY-04810
M 14 S	14	M22x1.5	27	MMS-HY-04811
M 16 S	16	M24x1.5	30	MMS-HY-04812
M 20 S	20	M30x2.0	36	MMS-HY-04813
M 25 S	25	M36x2.0	46	MMS-HY-04814
M 30 S	30	M42x2.0	50	MMS-HY-04815
M 38 S	38	M52x2.0	60	MMS-HY-04816

CUTTING RING

Description	A mm	REF
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ULTRA-LIGHT

SR 04 LL	4	MMS-HY-04817
SR 05 LL	5	MMS-HY-04818
SR 06 LL	6	MMS-HY-04819
SR 08 LL	8	MMS-HY-04820
SR 10 LL	10	MMS-HY-04821
SR 12 LL	12	MMS-HY-04822

LIGHT

SR 06 L/S	6	MMS-HY-04823
SR 08 L/S	8	MMS-HY-04824
SR 10 L/S	10	MMS-HY-04825
SR 12 L/S	12	MMS-HY-04826
SR 13 L	13	MMS-HY-04827
SR 14 L	14	MMS-HY-04828
SR 15 L	15	MMS-HY-04829
SR 17 L	17	MMS-HY-04830

Description	A mm	REF
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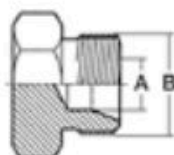
SR 18 L	18	MMS-HY-04831
SR 20 L	20	MMS-HY-04832
SR 21 L	21	MMS-HY-04833
SR 22 L	22	MMS-HY-04834
SR 27 L	27	MMS-HY-04835
SR 28 L	28	MMS-HY-04836
SR 33 L	33	MMS-HY-04837
SR 35 L	35	MMS-HY-04838
SR 42 L	42	MMS-HY-04839

HEAVY-DUTY

SR 14 S	14	MMS-HY-04840
SR 16 S	16	MMS-HY-04841
SR 20 S	20	MMS-HY-04842
SR 25 S	25	MMS-HY-04843
SR 30 S	30	MMS-HY-04844
SR 38 S	38	MMS-HY-04845

MALE PLUG FOR 24° CONE

Description	A mm	B	REF
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**LIGHT**

VL 06	6	M12x1.5	MMS-HY-04870
VL 08	8	M14x1.5	MMS-HY-04871
VL 10	10	M16x1.5	MMS-HY-04872
VL 12	12	M18x1.5	MMS-HY-04873
VL 15	15	M22x1.5	MMS-HY-04874
VL 18	18	M26x1.5	MMS-HY-04875
VL 22	22	M30x2.0	MMS-HY-04876
VL 28	28	M36x2.0	MMS-HY-04877
VL 35	35	M45x2.0	MMS-HY-04878
VL 42	42	M52x2.0	MMS-HY-04879

HEAVY-DUTY

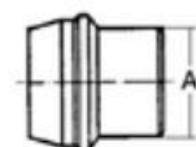
VS 06	6	M14x1.5	MMS-HY-04880
VS 08	8	M16x1.5	MMS-HY-04881

Description	A mm	B	REF
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VS 10	10	M18x1.5	MMS-HY-04882
VS 12	12	M20x1.5	MMS-HY-04883
VS 13	13	M20x1.5	MMS-HY-04884
VS 14	14	M22x1.5	MMS-HY-04885
VS 16	16	M24x1.5	MMS-HY-04886
VS 17	17	M24x1.5	MMS-HY-04887
VS 20	20	M30x2.0	MMS-HY-04888
VS 25	25	M36x2.0	MMS-HY-04889
VS 30	30	M42x2.0	MMS-HY-04890
VS 38	38	M52x2.0	MMS-HY-04891

FEMALE PLUG FOR 24° CONE

Description	A mm	REF
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**ULTRA-LIGHT**

VS 04LL	4	MMS-HY-04846
VS 06LL	6	MMS-HY-04847
VS 08LL	8	MMS-HY-04848

LIGHT

VS 06L/S	6	MMS-HY-04849
VS 08L/S	8	MMS-HY-04850
VS 10L/S	10	MMS-HY-04851
VS 12L/S	12	MMS-HY-04852
VS 13L	13	MMS-HY-04853
VS 14L	14	MMS-HY-04854
VS 15L	15	MMS-HY-04855
VS 17L	17	MMS-HY-04856
VS 18L	18	MMS-HY-04857
VS 20L	20	MMS-HY-04858
VS 21L	21	MMS-HY-04859
VS 22L	22	MMS-HY-04860
VS 28L	28	MMS-HY-04861

Description	A mm	REF
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VS 35L	35	MMS-HY-04862
VS 42L	42	MMS-HY-04863

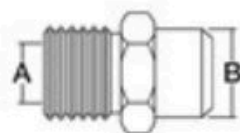
HEAVY-DUTY

VS 14S	14	MMS-HY-04864
VS 16S	16	MMS-HY-04865
VS 20S	20	MMS-HY-04866
VS 25S	25	MMS-HY-04867
VS 30S	30	MMS-HY-04868
VS 38S	38	MMS-HY-04869

CUTTING RING FITTINGS

CUTTING RING THREAD WELD-ON

Description	A mm	B mm	REF
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Description	A mm	B mm	REF
ASV 14S	14	19	MMS-HY-04906
ASV 16S	16	21	MMS-HY-04907
ASV 20S	20	26	MMS-HY-04908
ASV 25S	25	31	MMS-HY-04909
ASV 30S	30	36	MMS-HY-04910
ASV 38S	38	44	MMS-HY-04911

LIGHT

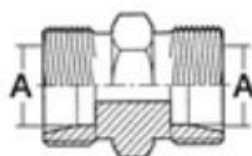
ASV 06L	6	10	MMS-HY-04892
ASV 08L	8	12	MMS-HY-04893
ASV 10L	10	14	MMS-HY-04894
ASV 12L	12	16	MMS-HY-04895
ASV 15L	15	19	MMS-HY-04896
ASV 18L	18	22	MMS-HY-04897
ASV 22L	22	27	MMS-HY-04898
ASV 28L	28	32	MMS-HY-04899
ASV 35L	35	40	MMS-HY-04900
ASV 42L	42	46	MMS-HY-04901

HEAVY-DUTY

ASV 06S	6	11	MMS-HY-04902
ASV 08S	8	13	MMS-HY-04903
ASV 10S	10	15	MMS-HY-04904
ASV 12S	12	17	MMS-HY-04905

STRAIGHT CUTTING RING THREAD

Description	A mm	REF
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Description	A mm	REF
GV 18L	18	MMS-HY-04926
GV 21L	21	MMS-HY-04927
GV 22L	22	MMS-HY-04928
GV 27L	27	MMS-HY-04929
GV 28L	28	MMS-HY-04930
GV 35L	35	MMS-HY-04931
GV 42L	42	MMS-HY-04932

ULTRA-LIGHT

GV 04LL	4	MMS-HY-04912
GV 05LL	5	MMS-HY-04913
GV 06LL	6	MMS-HY-04914
GV 08LL	8	MMS-HY-04915
GV 10LL	10	MMS-HY-04916
GV 16LL	16	MMS-HY-04917

LIGHT

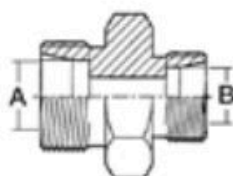
GV 06L	6	MMS-HY-04918
GV 08L	8	MMS-HY-04919
GV 10L	10	MMS-HY-04920
GV 12L	12	MMS-HY-04921
GV 13L	13	MMS-HY-04922
GV 14L	14	MMS-HY-04923
GV 15L	15	MMS-HY-04924
GV 17L	17	MMS-HY-04925

HEAVY-DUTY

GV 06S	6	MMS-HY-04933
GV 08S	8	MMS-HY-04934
GV 10S	10	MMS-HY-04935
GV 12S	12	MMS-HY-04936
GV 14S	14	MMS-HY-04937
GV 16S	16	MMS-HY-04938
GV 20S	20	MMS-HY-04939
GV 25S	25	MMS-HY-04940
GV 30S	30	MMS-HY-04941
GV 38S	38	MMS-HY-04942

REDUCING CUTTING RING THREAD

Description	A mm	B mm	REF
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**ULTRA-LIGHT**

GV 06/04LL	6	4	MMS-HY-04943
GV 08/06LL	8	6	MMS-HY-04944

LIGHT

GV 08/06L	8	6	MMS-HY-04945
GV 10/06L	10	6	MMS-HY-04946
GV 10/08L	10	8	MMS-HY-04947
GV 12/08L	12	8	MMS-HY-04948
GV 12/10L	12	10	MMS-HY-04949
GV 13/10L	13	10	MMS-HY-04950
GV 13/12L	13	12	MMS-HY-04951
GV 14/12L	14	12	MMS-HY-04952
GV 15/08L	15	8	MMS-HY-04953
GV 15/10L	15	10	MMS-HY-04954
GV 15/12L	15	12	MMS-HY-04955
GV 15/13L	15	13	MMS-HY-04956

Description	A mm	B mm	REF
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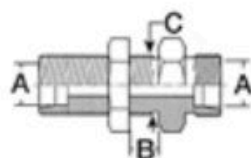
GV 17/12L	17	12	MMS-HY-04957
GV 17/13L	17	13	MMS-HY-04958
GV 17/15L	17	15	MMS-HY-04959
GV 18/12L	18	12	MMS-HY-04960
GV 18/15L	18	15	MMS-HY-04961
GV 22/15L	22	15	MMS-HY-04962
GV 28/22L	28	22	MMS-HY-04963

HEAVY-DUTY

GV 08/10S	8	10	MMS-HY-04964
GV 12/06S	12	6	MMS-HY-04965
GV 12/08S	12	8	MMS-HY-04966
GV 12/10S	12	10	MMS-HY-04967
GV 16/08S	16	8	MMS-HY-04968
GV 16/12S	16	12	MMS-HY-04969
GV 20/16S	20	16	MMS-HY-04970
GV 25/20S	25	20	MMS-HY-04971
GV 30/25S	30	25	MMS-HY-04972

BULKHEAD CUTTING RING THREAD

Description	A mm	B min	B max	C	REF
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**LIGHT**

GSV 06L	6	4	16	M12x1.5	MMS-HY-04973
GSV 08L	8	4	16	M14x1.5	MMS-HY-04974
GSV 10L	10	4	16	M16x1.5	MMS-HY-04975
GSV 12L	12	4	16	M18x1.5	MMS-HY-04976
GSV 13L	13	4	16	M20x1.5	MMS-HY-04977
GSV 15L	15	4	16	M22x1.5	MMS-HY-04978
GSV 17L	17	4	16	M24x1.5	MMS-HY-04979
GSV 18L	18	4	16	M26x1.5	MMS-HY-04980
GSV 21L	21	4	16	M26x1.5	MMS-HY-04981
GSV 22L	22	5	16	M30x2.0	MMS-HY-04982
GSV 27L	27	5	16	M36x2.0	MMS-HY-04983
GSV 28L	28	5	16	M36x2.0	MMS-HY-04984
GSV 35L	35	5	16	M45x2.0	MMS-HY-04985
GSV 42L	42	5	16	M52x2.0	MMS-HY-04986

HEAVY-DUTY

GSV 06S	6	4	16	M14x1.5	MMS-HY-04987
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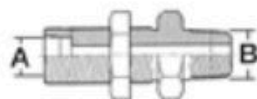
Description	A mm	B min	B max	C	REF
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GSV 08S	8	4	16	M16x1.5	MMS-HY-04988
GSV 10S	10	4	16	M18x1.5	MMS-HY-04989
GSV 12S	12	4	16	M20x1.5	MMS-HY-04990
GSV 14S	14	4	16	M22x1.5	MMS-HY-04991
GSV 16S	16	5	16	M24x1.5	MMS-HY-04992
GSV 20S	20	5	16	M30x2.0	MMS-HY-04993
GSV 25S	25	5	16	M36x2.0	MMS-HY-04994
GSV 30S	30	5	16	M42x2.0	MMS-HY-04995
GSV 38S	38	5	16	M52x2.0	MMS-HY-04996

CUTTING RING FITTINGS

BULKHEAD CUTTING RING THREAD - BSPT

Description	A mm	B BSP	REF
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NGESV12LR3/8	12	3/8	MMS-HY-04997
NGESV12LR1/2	12	1/2	MMS-HY-04998
NGESV13LR1/2	13	1/2	MMS-HY-04999
NGESV15LR1/2	15	1/2	MMS-HY-05000
NGESV17LR1/2	17	1/2	MMS-HY-05001
NGESV20SR3/4	20	3/4	MMS-HY-05002
NGESV25SR3/4	25	3/4	MMS-HY-05003

LOCKING NUT FOR BULKHEAD CUTTING RING THREAD

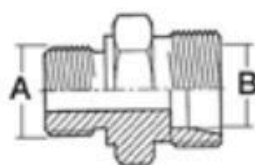
Description	Thread	REF
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KM 12 x 1.5	M12x1.5	MMS-HY-04688
KM 14 x 1.5	M14x1.5	MMS-HY-05004
KM 16 x 1.5	M16x1.5	MMS-HY-05005
KM 18 x 1.5	M18x1.5	MMS-HY-05006
KM 20 x 1.5	M20x1.5	MMS-HY-05007
KM 22 x 1.5	M22x1.5	MMS-HY-05008
KM 24 x 1.5	M24x1.5	MMS-HY-04693
KM 30 x 1.5	M30x1.5	MMS-HY-05009
KM 30 x 2.0	M30x2.0	MMS-HY-05010
KM 36 x 2.0	M36x2.0	MMS-HY-05011
KM 42 x 2.0	M42x2.0	MMS-HY-05012
KM 45 x 2.0	M45x2.0	MMS-HY-05013
KM 52 x 2.0	M52x2.0	MMS-HY-05014

MALE METRIC - CUTTING RING THREAD

Description	A	B mm	REF
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**ULTRA-LIGHT**

GEV 04LL M8x1.0	M8x1.0	4	MMS-HY-05015
GEV 06LL M10x1.0	M10x1.0	6	MMS-HY-05016
GEV 08LL M10x1.0	M10x1.0	8	MMS-HY-05017

LIGHT

GEV 06L M10x1.0	M10x1.0	6	MMS-HY-05018
GEV 06L M12x1.5	M12x1.5	6	MMS-HY-05019
GEV 06L M14x1.5	M14x1.5	6	MMS-HY-05020
GEV 06L M16x1.5	M16x1.5	6	MMS-HY-05021
GEV 06L M18x1.5	M18x1.5	6	MMS-HY-05022
GEV 06L M22x1.5	M22x1.5	6	MMS-HY-05023
GEV 08L M12x1.5	M12x1.5	8	MMS-HY-05024
GEV 08L M14x1.5	M14x1.5	8	MMS-HY-05025
GEV 08L M16x1.5	M16x1.5	8	MMS-HY-05026
GEV 08L M18x1.5	M18x1.5	8	MMS-HY-05027
GEV 08L M22x1.5	M22x1.5	8	MMS-HY-05028
GEV 10L M12x1.5	M12x1.5	10	MMS-HY-05029
GEV 10L M14x1.5	M14x1.5	10	MMS-HY-05030
GEV 10L M16x1.5	M16x1.5	10	MMS-HY-05031
GEV 10L M18x1.5	M18x1.5	10	MMS-HY-05032
GEV 10L M22x1.5	M22x1.5	10	MMS-HY-05033
GEV 12L M12x1.5	M12x1.5	12	MMS-HY-05034
GEV 12L M14x1.5	M14x1.5	12	MMS-HY-05035
GEV 12L M16x1.5	M16x1.5	12	MMS-HY-05036
GEV 12L M18x1.5	M18x1.5	12	MMS-HY-05037
GEV 12L M22x1.5	M22x1.5	12	MMS-HY-05038
GEV 13L M14x1.5	M14x1.5	13	MMS-HY-05039
GEV 13L M16x1.5	M16x1.5	13	MMS-HY-05040
GEV 13L M18x1.5	M18x1.5	13	MMS-HY-05041
GEV 13L M20x1.5	M20x1.5	13	MMS-HY-05042
GEV 15L M16x1.5	M16x1.5	15	MMS-HY-05043
GEV 15L M18x1.5	M18x1.5	15	MMS-HY-05044
GEV 15L M22x1.5	M22x1.5	15	MMS-HY-05045
GEV 16L M22x1.5	M22x1.5	16	MMS-HY-05046
GEV 17L M18x1.5	M18x1.5	17	MMS-HY-05047
GEV 17L M20x1.5	M20x1.5	17	MMS-HY-05048
GEV 17L M22x1.5	M22x1.5	17	MMS-HY-05049
GEV 18L M18x1.5	M18x1.5	18	MMS-HY-05050
GEV 18L M22x1.5	M22x1.5	18	MMS-HY-05051
GEV 18L M26x1.5	M26x1.5	18	MMS-HY-05052
GEV 21L M24x1.5	M24x1.5	21	MMS-HY-05053
GEV 21L M26x1.5	M26x1.5	21	MMS-HY-05054
GEV 22L M18x1.5	M18x1.5	22	MMS-HY-05055
GEV 22L M26x1.5	M26x1.5	22	MMS-HY-05056
GEV 27L M30x2.0	M30x2.0	27	MMS-HY-05057

Description	A	B mm	REF
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GEV 27L M33x2.0	M33x2.0	27	MMS-HY-05058
GEV 28L M33x2.0	M33x2.0	28	MMS-HY-05059
GEV 35L M42x2.0	M42x2.0	35	MMS-HY-05060
GEV 42L M48x2.0	M48x2.0	42	MMS-HY-05061

HEAVY-DUTY

GEV 06S M12x1.5	M12x1.5	6	MMS-HY-05062
GEV 08S M14x1.5	M14x1.5	8	MMS-HY-05063
GEV 10S M16x1.5	M16x1.5	10	MMS-HY-05064
GEV 10S M18x1.5	M18x1.5	10	MMS-HY-05065
GEV 12S M14x1.5	M14x1.5	12	MMS-HY-05066
GEV 12S M18x1.5	M18x1.5	12	MMS-HY-05067
GEV 14S M18x1.5	M18x1.5	14	MMS-HY-05068
GEV 14S M20x1.5	M20x1.5	14	MMS-HY-05069
GEV 16S M18x1.5	M18x1.5	16	MMS-HY-05070
GEV 16S M22x1.5	M22x1.5	16	MMS-HY-05071
GEV 20S M27x2.0	M27x2.0	20	MMS-HY-05072
GEV 25S M33x2.0	M33x2.0	25	MMS-HY-05073
GEV 30S M42x2.0	M42x2.0	30	MMS-HY-05074
GEV 38S M48x2.0	M48x2.0	38	MMS-HY-05075

CUTTING RING FITTINGS

MALE METRIC WITH CAPTIVE SEAL - CUTTING RING THREAD

Description	A	B mm	REF
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LIGHT

GEV 06L M10x1 ED	M10x1	6	MMS-HY-05076
GEV 08L M12x1.5 ED	M12x1.5	8	MMS-HY-05077
GEV 8L M14x1.5 ED	M14x1.5	8	MMS-HY-05078
GEV 8L M18x1.5 ED	M18x1.5	8	MMS-HY-05079
GEV 10L M10x1 ED	M10x1.5	10	MMS-HY-05080
GEV 10L M14x1.5 ED	M14x1.5	10	MMS-HY-05081
GEV 10L M16x1.5 ED	M16x1.5	10	MMS-HY-05082
GEV 10L M18x1.5 ED	M18x1.5	10	MMS-HY-05083
GEV 12L M14x1.5 ED	M14x1.5	12	MMS-HY-05084
GEV 12L M16x1.5 ED	M16x1.5	12	MMS-HY-05085
GEV 12L M18x1.5 ED	M18x1.5	12	MMS-HY-05086
GEV 12L M22x1.5 ED	M22x1.5	12	MMS-HY-05087
GEV 15L M18x1.5 ED	M18x1.5	15	MMS-HY-05088
GEV 15L M22x1.5 ED	M22x1.5	15	MMS-HY-05089
GEV 18L M22x1.5 ED	M22x1.5	18	MMS-HY-05090

Description	A	B mm	REF
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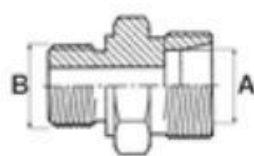
GEV 22L M26x1.5 ED	M26x1.5	22	MMS-HY-05091
GEV 28L M33x2 ED	M33x2	28	MMS-HY-05092

HEAVY-DUTY

GEV 06S M12x1.5 ED	M12x1.5	6	MMS-HY-05093
GEV 08S M14x1.5 ED	M14x1.5	8	MMS-HY-05094
GEV 10S M16x1.5 ED	M16x1.5	10	MMS-HY-05095
GEV 12S M14x1.5 ED	M14x1.5	12	MMS-HY-05096
GEV 12S M18x1.5 ED	M18x1.5	12	MMS-HY-05097
GEV 14S M20x1.5 ED	M20x1.5	14	MMS-HY-05098
GEV 16S M22x1.5 ED	M22x1.5	16	MMS-HY-05099
GEV 20S M27x2 ED	M27x2	20	MMS-HY-05100
GEV 25S M33x2 ED	M33x2	25	MMS-HY-05101

MALE BSP WITH CAPTIVE SEAL - CUTTING RING THREAD

Description	A mm	B	REF
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ULTRA-LIGHT

GEV 04LL R1/8	4	G 1/8	MMS-HY-05102
GEV 06LL R1/8	6	G 1/8	MMS-HY-05103
GEV 06LL R1/4	6	G 1/4	MMS-HY-05104
GEV 08LL R1/8	8	G 1/8	MMS-HY-05105

LIGHT

GEV 06L R1/8	6	G 1/8	MMS-HY-05106
GEV 06L R1/2	6	G 1/4	MMS-HY-05107
GEV 06L R1/4	6	G 1/2	MMS-HY-05108
GEV 08L R1/8	8	G 1/8	MMS-HY-05109
GEV 08L R1/4	8	G 1/4	MMS-HY-05110
GEV 08L R3/8	8	G 3/8	MMS-HY-05111
GEV 08L R1/2	8	G 1/2	MMS-HY-05112
GEV 10L R1/8	10	G 1/8	MMS-HY-05113
GEV 10L R1/4	10	G 1/4	MMS-HY-05114
GEV 10L R3/8	10	G 3/8	MMS-HY-05115
GEV 10L R1/2	10	G 1/2	MMS-HY-05116
GEV 12L R1/4	12	G 1/4	MMS-HY-05117
GEV 12L R3/8	12	G 3/8	MMS-HY-05118
GEV 12L R1/2	12	G 1/2	MMS-HY-05119
GEV 12L R3/4	12	G 3/4	MMS-HY-05120
GEV 13L R1/4	13	G 1/4	MMS-HY-05121
GEV 13L R3/8	13	G 3/8	MMS-HY-05122
GEV 13L R1/2	13	G 1/2	MMS-HY-05123
GEV 15L R1/4	15	G 1/4	MMS-HY-05124
GEV 15L R3/8	15	G 3/8	MMS-HY-05125
GEV 15L R1/2	15	G 1/2	MMS-HY-05126
GEV 15L R3/4	15	G 3/4	MMS-HY-05127
GEV 17L R1/4	17	G 1/4	MMS-HY-05128
GEV 17L R3/8	17	G 3/8	MMS-HY-05129
GEV 17L R1/2	17	G 1/2	MMS-HY-05130
GEV 17L R3/4	17	G 3/4	MMS-HY-05131
GEV 18L R1/2	18	G 1/2	MMS-HY-05132
GEV 18L R3/4	18	G 3/4	MMS-HY-05133
GEV 18L R1	18	G 1	MMS-HY-05134
GEV 21L R1/2	21	G 1/2	MMS-HY-05135
GEV 21L R3/4	21	G 1/2	MMS-HY-05136
GEV 22L R1/2	22	G 1/2	MMS-HY-05137
GEV 22L R3/4	22	G 3/4	MMS-HY-05138
GEV 22L R1	22	G 1	MMS-HY-05139
GEV 27L R3/4	27	G 3/4	MMS-HY-05140
GEV 27L R1	27	G 1	MMS-HY-05141
GEV 28L R1	28	G 1	MMS-HY-05142
GEV 35L R1 1/4	35	G 1 1/4	MMS-HY-05143
GEV 42L R1 1/2	42	G 1 1/2	MMS-HY-05144

Description	A mm	B	REF
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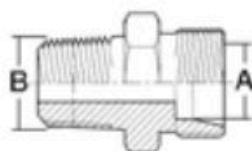
HEAVY-DUTY

GEV 06S R1/4	6	G 1/4	MMS-HY-05145
GEV 06S R3/8	6	G 3/8	MMS-HY-05146
GEV 06S R1/2	6	G 1/2	MMS-HY-05147
GEV 08S R1/4	8	G 1/4	MMS-HY-05148
GEV 10S R1/4	10	G 1/4	MMS-HY-05149
GEV 10S R3/8	10	G 3/8	MMS-HY-05150
GEV 10S R1/2	10	G 1/2	MMS-HY-05151
GEV 12S R1/4	12	G 1/4	MMS-HY-05152
GEV 12S R3/8	12	G 3/8	MMS-HY-05153
GEV 12S R1/2	12	G 1/2	MMS-HY-05154
GEV 14S R3/8	14	G 3/8	MMS-HY-05155
GEV 14S R1/2	14	G 1/2	MMS-HY-05156
GEV 14S R3/4	14	G 3/4	MMS-HY-05157
GEV 16S R3/8	16	G 3/8	MMS-HY-05158
GEV 16S R1/2	16	G 1/2	MMS-HY-05159
GEV 16S R3/4	16	G 3/4	MMS-HY-05160
GEV 20S R1/2	20	G 1/2	MMS-HY-05161
GEV 20S R3/4	20	G 3/4	MMS-HY-05162
GEV 20S R1	20	G 1	MMS-HY-05163
GEV 25S R3/4	25	G 3/4	MMS-HY-05164
GEV 25S R1	25	G 1	MMS-HY-05165
GEV 30S R1 1/4	30	G 1 1/4	MMS-HY-05166
GEV 38S R1 1/4	38	G 1 1/4	MMS-HY-05167
GEV 38S R1 1/2	38	G 1 1/2	MMS-HY-05168

CUTTING RING FITTINGS

METRIC CONICAL - CUTTING RING THREAD

Description	A mm	B	REF
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Description	A mm	B	REF
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GEV 10L MK12x1.5	10	M12x1.5	MMS-HY-05220
GEV 10L MK14x1.5	10	M14x1.5	MMS-HY-05221
GEV 10L MK16x1.5	10	M16x1.5	MMS-HY-05222
GEV 12L MK16x1.5	12	M16x1.5	MMS-HY-05223
GEV 12L MK18x1.5	12	M18x1.5	MMS-HY-05224
GEV 15L MK18x1.5	15	M18x1.5	MMS-HY-05225

ULTRA-LIGHT

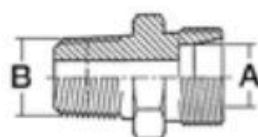
GEV 04LL MK6x1	4	M6x1.0	MMS-HY-05208
GEV 04LL MK8x1	4	M8x1.0	MMS-HY-05209
GEV 05LL MK8x1	5	M8x1.0	MMS-HY-05210
GEV 05LL MK10x1	5	M8x1.0	MMS-HY-05211
GEV 06LL MK6x1	6	M6x1.0	MMS-HY-05212
GEV 06LL MK8x1	6	M8x1.0	MMS-HY-05213
GEV 06LL MK10x1	6	M10x1.0	MMS-HY-05214
GEV 08LL MK10x1	8	M10x1.0	MMS-HY-05215

LIGHT

GEV 06L MK12x1.5	6	M12x 1.5	MMS-HY-05216
GEV 08L MK10x1	8	M10x1	MMS-HY-05217
GEV 08L MK12x1.5	8	M12x1.5	MMS-HY-05218
GEV 08L MK14x1.5	8	M14x1.5	MMS-HY-05219

BSPT - CUTTING RING THREAD

Description	A mm	B	REF
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Description	A mm	B	REF
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GEV 12L RK1/2	12	G 1/2	MMS-HY-05185
GEV 13L RK1/4	13	G 1/4	MMS-HY-05186
GEV 13L RK3/8	13	G 3/8	MMS-HY-05187
GEV 13L RK1/2	13	G 1/2	MMS-HY-05188
GEV 14L RK3/8	14	G 3/8	MMS-HY-05189
GEV 14L RK1/2	14	G 1/2	MMS-HY-05190
GEV 15L RK3/8	15	G 3/8	MMS-HY-05191
GEV 15L RK1/2	15	G 1/2	MMS-HY-05192
GEV 17L RK1/4	17	G 1/4	MMS-HY-05193
GEV 17L RK3/8	17	G 3/8	MMS-HY-05194
GEV 17L RK1/2	17	G 1/2	MMS-HY-05195
GEV 17L RK3/4	17	G 3/4	MMS-HY-05196
GEV 18L RK3/4	18	G 3/4	MMS-HY-05197
GEV 21L RK1/2	21	G 1/2	MMS-HY-05198
GEV 21L RK3/4	21	G 3/4	MMS-HY-05199
GEV 27L RK3/4	27	G 3/4	MMS-HY-05200
GEV 27L RK1	27	G 1	MMS-HY-05201

HEAVY-DUTY

GEV 06S RK1/4	6	G 1/4	MMS-HY-05202
GEV 12S RK3/8	12	G 3/8	MMS-HY-05203
GEV 14N RK3/8	14	G 3/8	MMS-HY-05204
GEV 14N RK1/2	14	G 1/2	MMS-HY-05205
GEV 16S RK1/2	16	G 1/2	MMS-HY-05206
GEV 20S RK3/4	20	G 3/4	MMS-HY-05207

ULTRA-LIGHT

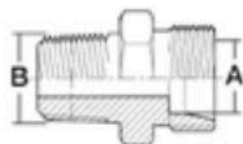
GEV 04LL RK1/8	4	G 1/8	MMS-HY-05169
GEV 05LL RK1/8	5	G 1/8	MMS-HY-05170
GEV 06LL RK1/8	6	G 1/8	MMS-HY-05171
GEV 08LL RK1/8	8	G 1/8	MMS-HY-05172
GEV 08LL RK1/4	8	G 1/4	MMS-HY-05173

LIGHT

GEV 06L RK1/8	6	G 1/8	MMS-HY-05174
GEV 06L RK1/4	6	G 1/4	MMS-HY-05175
GEV 08L RK1/8	8	G 1/8	MMS-HY-05176
GEV 08L RK1/4	8	G 1/4	MMS-HY-05177
GEV 08L RK3/8	8	G 3/8	MMS-HY-05178
GEV 10L RK1/8	10	G 1/8	MMS-HY-05179
GEV 10L RK1/4	10	G 1/4	MMS-HY-05180
GEV 10L RK3/8	10	G 3/8	MMS-HY-05181
GEV 10L RK1/2	10	G 1/2	MMS-HY-05182
GEV 12L RK1/4	12	G 1/4	MMS-HY-05183
GEV 12L RK3/8	12	G 3/8	MMS-HY-05184

MALE NPT - CUTTING RING THREAD

Description	A mm	B NPT	REF
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**ULTRA-LIGHT**

GEV 04LL 1/8NPT	4	1/8	MMS-HY-05226
GEV 05LL 1/8NPT	5	1/8	MMS-HY-05227
GEV 06LL 1/8NPT	6	1/8	MMS-HY-05228
GEV 08LL 1/8NPT	8	1/8	MMS-HY-05229

LIGHT

GEV 06L 1/8NPT	6	1/8	MMS-HY-05230
GEV 06L 1/4NPT	6	1/4	MMS-HY-05231
GEV 08L 1/8NPT	8	1/8	MMS-HY-05232
GEV 08L 1/4NPT	8	1/4	MMS-HY-05233
GEV 08L 3/8NPT	8	3/8	MMS-HY-05234
GEV 10L 1/4NPT	10	1/4	MMS-HY-05235
GEV 10L 3/8NPT	10	3/8	MMS-HY-05236
GEV 10L 1/2NPT	10	1/2	MMS-HY-05237
GEV 12L 1/4NPT	12	1/4	MMS-HY-05238
GEV 12L 3/8NPT	12	3/8	MMS-HY-05239
GEV 12L 1/2NPT	12	1/2	MMS-HY-05240
GEV 13L 1/4NPT	13	1/4	MMS-HY-05241

Description	A mm	B NPT	REF
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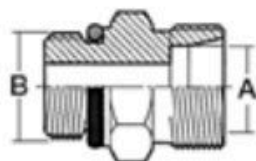
GEV 15L 1/2NPT	15	1/2	MMS-HY-05242
GEV 17L 1/2NPT	17	1/2	MMS-HY-05243
GEV 18L 1/2NPT	18	1/2	MMS-HY-05244
GEV 21L 1/2NPT	21	1/2	MMS-HY-05245
GEV 21L 3/4NPT	21	3/4	MMS-HY-05246
GEV 22L 3/4NPT	22	3/4	MMS-HY-05247
GEV 27L 3/4NPT	27	3/4	MMS-HY-05248
GEV 27L 1NPT	27	1	MMS-HY-05249
GEV 28L 1NPT	28	1	MMS-HY-05250
GEV 35L 1 1/4NPT	35	1 1/4	MMS-HY-05251
GEV 42L 1 1/2NPT	42	1 1/2	MMS-HY-05252

HEAVY-DUTY

GEV 06S 1/4NPT	6	1/4	MMS-HY-05253
GEV 08S 1/4NPT	8	1/4	MMS-HY-05254
GEV 10S 1/4NPT	10	1/4	MMS-HY-05255
GEV 10S 3/8NPT	10	3/8	MMS-HY-05256
GEV 12S 1/4NPT	12	1/4	MMS-HY-05257
GEV 12S 3/8NPT	12	3/8	MMS-HY-05258
GEV 12S 1/2NPT	12	1/2	MMS-HY-05259
GEV 14S 1/2NPT	14	1/2	MMS-HY-05260
GEV 16S 1/2NPT	16	1/2	MMS-HY-05261
GEV 20S 3/4NPT	20	3/4	MMS-HY-05262
GEV 25S 1NPT	25	1	MMS-HY-05263
GEV 30S 1 1/4NPT	30	1 1/4	MMS-HY-05264
GEV 38S 1 1/2NPT	38	1 1/2	MMS-HY-05265

MALE SAE - CUTTING RING THREAD

Description	A mm	B	REF
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**LIGHT**

GEV 6L 9/16 18UNF	6	9/16"	MMS-HY-05266
GEV 8L 7/16 20UNF	8	7/16"	MMS-HY-05267
GEV 8L 9/16 18UNF	8	9/16"	MMS-HY-05268
GEV 8L 3/4 16UNF	8	3/4"	MMS-HY-05269
GEV 10L 7/16 20UNF	10	7/16"	MMS-HY-05270
GEV 10L 9/16 18UNF	10	9/16"	MMS-HY-05271
GEV 10L 3/4 16UNF	10	3/4"	MMS-HY-05272
GEV 12L 9/16 18UNF	12	9/16"	MMS-HY-05273
GEV 12L 3/4 16UNF	12	3/4"	MMS-HY-05274
GEV 12L 7/8 14UNF	12	7/8"	MMS-HY-05275
GEV 13L 9/16 18UNF	13	9/16"	MMS-HY-05276
GEV 13L 3/4 16UNF	13	3/4"	MMS-HY-05277
GEV 15L 3/4 16UNF	15	3/4"	MMS-HY-05278

Description	A mm	B	REF
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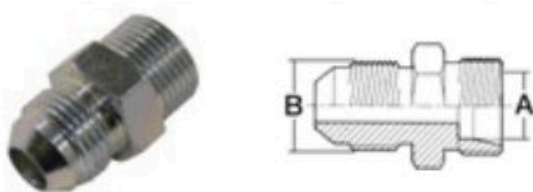
GEV 15L 7/8 14UNF	15	7/8"	MMS-HY-05279
GEV 18L 3/4 16UNF	18	3/4"	MMS-HY-05280
GEV 18L 7/8 14UNF	18	7/8"	MMS-HY-05281
GEV 22L 7/8 14UNF	22	7/8"	MMS-HY-05282
GEV 22L 1 1/16 20UNF	22	1 1/16"	MMS-HY-05283
GEV 28L 7/8 14UNF	28	7/8"	MMS-HY-05284
GEV 28L 1 5/16 12UNF	28	1 5/16"	MMS-HY-05285
GEV 35L 1 5/8 12UNF	35	1 5/8"	MMS-HY-05286
GEV 42L 1 5/8 12UNF	42	1 5/8"	MMS-HY-05287

HEAVY-DUTY

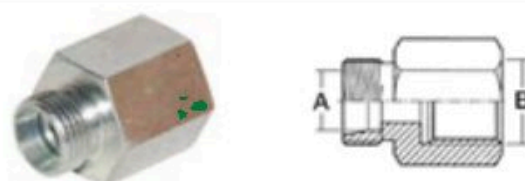
GEV 08S 7/16 20UNF	8	7/16"	MMS-HY-05288
GEV 12S 3/4 16UNF	12	3/4"	MMS-HY-05289
GEV 16S 3/4 16UNF	16	3/4"	MMS-HY-05290
GEV 16S 7/8 14UNF	16	7/8"	MMS-HY-05291
GEV 20S 3/4 16UNF	20	3/4"	MMS-HY-05292
GEV 20S 7/8 14UNF	20	7/8"	MMS-HY-05293
GEV 20S 1 1/16 20UNF	20	1 1/16"	MMS-HY-05294
GEV 25S 1 5/16 12UNF	25	1 5/16"	MMS-HY-05295
GEV 30S 1 5/8 12UNF	30	1 5/8"	MMS-HY-05296

CUTTING RING FITTINGS

MALE JIC - CUTTING RING THREAD

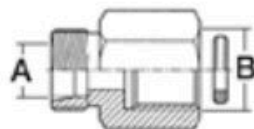
Description	A mm	B	REF
			
UM 13-9/16 JIC NU	13	9/16-18	MMS-HY-05297
UM 13-3/4 JIC NU	13	3/4-16	MMS-HY-05298
UM 15-7/8 JIC NU	15	7/8-14	MMS-HY-05299

MALE CUTTING RING THREAD - FEMALE BSP

Description	A mm	B	REF	Description	A mm	B	REF	
				GAV 22L R3/4	22	3/4	MMS-HY-05315	
LIGHT	GAV 06L R1/8	6	1/8	MMS-HY-05300	GAV 28L R1	28	1	MMS-HY-05316
	GAV 08L R1/4	8	1/4	MMS-HY-05301	GAV 35L R1 1/4	35	1 1/4	MMS-HY-05317
	GAV 08L R1/2	8	1/2	MMS-HY-05302	GAV 42L R1 1/2	42	1 1/2	MMS-HY-05318
	GAV 10L R1/4	10	1/4	MMS-HY-05303	HEAVY-DUTY			
	GAV 10L R3/8	10	3/8	MMS-HY-05304	GAV 06S R1/4	6	1/4	MMS-HY-05319
	GAV 12L R1/4	12	1/4	MMS-HY-05305	GAV 08S R1/4	8	1/4	MMS-HY-05320
	GAV 12L R3/8	12	3/8	MMS-HY-05306	GAV 10S R3/8	10	3/8	MMS-HY-05321
	GAV 12L R1/2	12	1/2	MMS-HY-05307	GAV 12S R1/4	12	1/4	MMS-HY-05322
	GAV 13L R1/4	13	1/4	MMS-HY-05308	GAV 12S R3/8	12	3/8	MMS-HY-05323
	GAV 13L R3/8	13	3/8	MMS-HY-05309	GAV 14S R1/2	14	1/2	MMS-HY-05324
	GAV 13L R1/2	13	1/2	MMS-HY-05310	GAV 16S R1/2	16	1/2	MMS-HY-05325
	GAV 15L R1/2	15	1/2	MMS-HY-05311	GAV 20S R3/4	20	3/4	MMS-HY-05326
	GAV 17L R3/8	17	3/8	MMS-HY-05312	GAV 25S R1	25	1	MMS-HY-05327
	GAV 17L R1/2	17	1/2	MMS-HY-05313	GAV 30S R1 1/4	30	1 1/4	MMS-HY-05328
	GAV 18L R1/2	18	1/2	MMS-HY-05314	GAV 38S R1 1/2	38	1 1/2	MMS-HY-05329

CUTTING RING THREAD - GAUGE FEMALE

Description	A mm	B	REF
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Description	A mm	B	REF
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HEAVY-DUTY

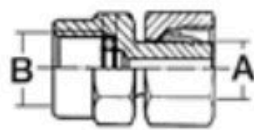
MAV 06S R1/2	6	1/2	MMS-HY-05334
MAV 08S R1/2	8	1/2	MMS-HY-05335
MAV 10S R1/2	10	1/2	MMS-HY-05336
MAV 12S R1/2	12	1/2	MMS-HY-05337

LIGHT

MAV 06L R1/4	6	1/4	MMS-HY-05330
MAV 08L R1/4	8	1/4	MMS-HY-05331
MAV 10L R1/4	10	1/4	MMS-HY-05332
MAV 12L R1/4	12	1/4	MMS-HY-05333

PRESSURE GAUGE FITTING WITH FLAT END

Description	A mm	B	REF
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**LIGHT**

EMAS 06L R1/4 SV	6	1/4	MMS-HY-05338
EMAS 08L R1/4 SV	8	1/4	MMS-HY-05339
EMAS 10L R1/4 SV	10	1/4	MMS-HY-05340
EMAS 12L R1/4 SV	12	1/4	MMS-HY-05341

HEAVY-DUTY

EMAS 06S R1/2 SV	6	1/2	MMS-HY-05342
EMAS 08S R1/2 SV	8	1/2	MMS-HY-05343
EMAS 10S R1/2 SV	10	1/2	MMS-HY-05344
EMAS 12S R1/2 SV	12	1/2	MMS-HY-05345

CUTTING RING FITTINGS

MALE GAS - FEMALE CUTTING RING THREAD

Description	A mm	B	REF
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LIGHT

EGES 06 L R1/8 SV	6	1/8	MMS-HY-05346
EGES 08 L R1/4 SV	8	1/4	MMS-HY-05347
EGES 10 L R1/4 SV	10	1/4	MMS-HY-05348
EGES 12 L R1/4 SV	12	1/4	MMS-HY-05349
EGES 12 L R3/8 SV	12	3/8	MMS-HY-05350
EGES 12 L R1/2 SV	12	1/2	MMS-HY-05351
EGES 13 L R1/4 SV	13	1/4	MMS-HY-05352
EGES 13 L R3/8 SV	13	3/8	MMS-HY-05353
EGES 13 L R1/2 SV	13	1/2	MMS-HY-05354
EGES 15 L R3/8 SV	15	3/8	MMS-HY-05355
EGES 15 L R1/2 SV	15	1/2	MMS-HY-05356
EGES 17 L R3/8 SV	17	3/8	MMS-HY-05357
EGES 17 L R1/2 SV	17	1/2	MMS-HY-05358
EGES 18 L R1/2 SV	18	1/2	MMS-HY-05359
EGES 21 L R1/2 SV	21	1/2	MMS-HY-05360

Description	A mm	B	REF
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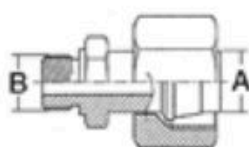
EGES 21 L R3/4 SV	21	3/4	MMS-HY-05361
EGES 22 L R3/4 SV	22	3/4	MMS-HY-05362
EGES 27 L R3/4 SV	27	3/4	MMS-HY-05363
EGES 28 L R1 SV	28	1	MMS-HY-05364
EGES 35 L R1 1/4 SV	35	1 1/4	MMS-HY-05365
EGES 42 L R1 1/2 SV	42	1 1/2	MMS-HY-05366

HEAVY-DUTY

EGES 06 S R1/4 SV	6	1/4	MMS-HY-05367
EGES 08 S R1/4 SV	8	1/4	MMS-HY-05368
EGES 10 S R3/8 SV	10	3/8	MMS-HY-05369
EGES 12 S R3/8 SV	12	3/8	MMS-HY-05370
EGES 12 S R1/2 SV	12	1/2	MMS-HY-05371
EGES 14 S R1/2 SV	14	1/2	MMS-HY-05372
EGES 16 S R1/2 SV	16	1/2	MMS-HY-05373
EGES 16 S R3/4 SV	16	3/4	MMS-HY-05374
EGES 20 S R3/4 SV	20	3/4	MMS-HY-05375
EGES 25 S R1 SV	25	1	MMS-HY-05376
EGES 30 S R1 1/4 SV	30	1 1/4	MMS-HY-05377
EGES 38 S R1 1/2 SV	38	1 1/2	MMS-HY-05378

MALE METRIC - FEMALE CUTTING RING THREAD

Description	A mm	B	REF
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LIGHT

EGES 06L M10x1.0 SV	6	M10x1.0	MMS-HY-05379
EGES 08L M10x1	8	M10x1	MMS-HY-05380
EGES 08L M12x1.5 SV	8	M12x1.5	MMS-HY-05381
EGES 08L M14x1.5 SV	8	M14x1.5	MMS-HY-05382
EGES 10L M12x1.5	10	M12x1.5	MMS-HY-05383
EGES 10L M14x1.5 SV	10	M14x1.5	MMS-HY-05384
EGES 10L M16x1.5 SV	10	M16x1.5	MMS-HY-05385
EGES 12L M16x1.5 SV	12	M16x1.5	MMS-HY-05386
EGES 12L M18x1.5 SV	12	M18x1.5	MMS-HY-05387
EGES 13L M16x1.5 SV	13	M16x1.5	MMS-HY-05388
EGES 13L M18x1.5 SV	13	M18x1.5	MMS-HY-05389
EGES 13L M22x1.5 SV	13	M22x1.5	MMS-HY-05390
EGES 15L M18x1.5 SV	15	M18x1.5	MMS-HY-05391
EGES 15L M22x1.5 SV	15	M22x1.5	MMS-HY-05392
EGES 18L M18x1.5 SV	17	M18x1.5	MMS-HY-05393
EGES 18L M22x1.5 SV	18	M22x1.5	MMS-HY-05394

Description	A mm	B	REF
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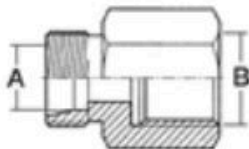
EGES 22L M26x1.5 SV	22	M26x1.5	MMS-HY-05395
EGES 28L M33x2.0 SV	28	M33x2.0	MMS-HY-05396
EGES 35L M42x2.0 SV	35	M42x2.0	MMS-HY-05397
EGES 42L M48x2.0 SV	42	M48x2.0	MMS-HY-05398

HEAVY-DUTY

EGES 06S M10x1 SV	6	M10x1	MMS-HY-05399
EGES 06S M12x1.5 SV	6	M12x1.5	MMS-HY-05400
EGES 08S M14x1.5 SV	8	M14x1.5	MMS-HY-05401
EGES 10S M14x1.5 SV	10	M14x1.5	MMS-HY-05402
EGES 10S M16x1.5 SV	10	M16x1.5	MMS-HY-05403
EGES 12S M16x1.5 SV	12	M16x1.5	MMS-HY-05404
EGES 12S M18x1.5 SV	12	M18x1.5	MMS-HY-05405
EGES 12S M22x1.5 SV	12	M22x1.5	MMS-HY-05406
EGES 14S M20x1.5 SV	14	M20x1.5	MMS-HY-05407
EGES 14S M22x1.5 SV	14	M22x1.5	MMS-HY-05408
EGES 16S M22x1.5 SV	16	M22x1.5	MMS-HY-05409
EGES 20SL M16x1.5	20	M16x1.5	MMS-HY-05410
EGES 20S M27x2.0 SV	20	M27x2.0	MMS-HY-05411
EGES 25S M33x2.0 SV	25	M33x2.0	MMS-HY-05412
EGES 30S M42x2.0 SV	30	M42x2.0	MMS-HY-05413
EGES 38S M48x2.0 SV	38	M48x2.0	MMS-HY-05414

CUTTING RING THREAD - FEMALE METRIC

Description	A mm	B	REF
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Description	A mm	B	REF
GAV 14S M20x1.5	14	M20x1.5	MMS-HY-05429
GAV 16S M22x1.5	16	M22x1.5	MMS-HY-05430
GAV 20S M27x2.0	20	M27x2.0	MMS-HY-05431
GAV 25S M33x2.0	25	M33x2.0	MMS-HY-05432
GAV 30S M42x2.0	30	M42x2.0	MMS-HY-05433
GAV 38S M48x2.0	38	M48x2.0	MMS-HY-05434

LIGHT

GAV 06L M10x1.0	6	M10x1.0	MMS-HY-05415
GAV 08L M12x1.5	8	M12x1.5	MMS-HY-05416
GAV 10L M14x1.5	10	M14x1.5	MMS-HY-05417
GAV 12L M16x1.5	12	M16x1.5	MMS-HY-05418
GAV 15L M18x1.5	15	M18x1.5	MMS-HY-05419
GAV 18L M22x1.5	18	M22x1.5	MMS-HY-05420
GAV 22L M26x1.5	22	M26x1.5	MMS-HY-05421
GAV 28L M33x2.0	28	M33x2.0	MMS-HY-05422
GAV 35L M42x2.0	35	M42x2.0	MMS-HY-05423
GAV 42L M48x2.0	42	M48x2.0	MMS-HY-05424

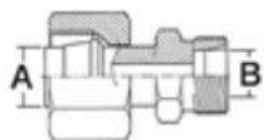
HEAVY-DUTY

GAV 06S M12x1.5	6	M12x1.5	MMS-HY-05425
GAV 08S M14x1.5	8	M14x1.5	MMS-HY-05426
GAV 10S M16x1.5	10	M16x1.5	MMS-HY-05427
GAV 12S M18x1.5	12	M18x1.5	MMS-HY-05428

CUTTING RING FITTINGS

FEMALE CUTTING RING THREAD - CUTTING RING THREAD

Description	A mm	B mm	REF
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LIGHT

REDV 08/06L SV	8	6	MMS-HY-05435
REDV 10/06L SV	10	6	MMS-HY-05436
REDV 10/08L SV	10	8	MMS-HY-05437
REDV 10/13N SV	10	13	MMS-HY-05438
REDV 12/06L SV	12	6	MMS-HY-05439
REDV 12/08L SV	12	8	MMS-HY-05440
REDV 12/10L SV	12	10	MMS-HY-05441
REDV 12/12L SV	12	12	MMS-HY-05442
REDV 12/13N SV	12	13	MMS-HY-05443
REDV 12/15L SV	12	15	MMS-HY-05444
REDV 13/10L SV	13	10	MMS-HY-05445
REDV 13/12L SV	13	12	MMS-HY-05446
REDV 13/13N SV	13	13	MMS-HY-05447
REDV 13/15L SV	13	15	MMS-HY-05448
REDV 13/17N SV	13	17	MMS-HY-05449
REDV 15/06L SV	15	6	MMS-HY-05450
REDV 15/08L SV	15	8	MMS-HY-05451
REDV 15/10L SV	15	10	MMS-HY-05452
REDV 15/12L SV	15	12	MMS-HY-05453
REDV 15/13N SV	15	13	MMS-HY-05454
REDV 17/12L SV	17	12	MMS-HY-05455
REDV 17/13N SV	17	13	MMS-HY-05456
REDV 17/15L SV	17	15	MMS-HY-05457
REDV 17/17L SV	17	17	MMS-HY-05458
REDV 18/06L SV	18	6	MMS-HY-05459
REDV 18/08L SV	18	8	MMS-HY-05460
REDV 18/10L SV	18	10	MMS-HY-05461
REDV 18/12L SV	18	12	MMS-HY-05462
REDV 18/15L SV	18	15	MMS-HY-05463
REDV 22/06L SV	22	6	MMS-HY-05464
REDV 22/08L SV	22	8	MMS-HY-05465
REDV 22/10L SV	22	10	MMS-HY-05466
REDV 22/12L SV	22	12	MMS-HY-05467
REDV 22/15L SV	22	15	MMS-HY-05468
REDV 22/18L SV	22	18	MMS-HY-05469
REDV 28/12L SV	28	12	MMS-HY-05470
REDV 28/15L SV	28	15	MMS-HY-05471
REDV 28/18L SV	28	18	MMS-HY-05472
REDV 28/22L SV	28	22	MMS-HY-05473
REDV 35/28L SV	35	28	MMS-HY-05474

HEAVY-DUTY

REDV 08/06S SV	8	6	MMS-HY-05475
REDV 10/06S SV	10	6	MMS-HY-05476
REDV 10/08S SV	10	8	MMS-HY-05477

Description	A mm	B mm	REF
REDV 12/06S SV	12	6	MMS-HY-05478
REDV 12/08S SV	12	8	MMS-HY-05479
REDV 12/10S SV	12	10	MMS-HY-05480
REDV 14/06S SV	14	6	MMS-HY-05481
REDV 14/08S SV	14	8	MMS-HY-05482
REDV 14/12S SV	14	12	MMS-HY-05483
REDV 16/06S SV	16	6	MMS-HY-05484
REDV 16/08S SV	16	8	MMS-HY-05485
REDV 16/10S SV	16	10	MMS-HY-05486
REDV 16/12S SV	16	12	MMS-HY-05487
REDV 16/14S SV	16	14	MMS-HY-05488
REDV 20/06S SV	20	6	MMS-HY-05489
REDV 20/08S SV	20	8	MMS-HY-05490
REDV 20/10S SV	20	10	MMS-HY-05491
REDV 20/12S SV	20	12	MMS-HY-05492
REDV 20/16S SV	20	16	MMS-HY-05493
REDV 25/06S SV	25	6	MMS-HY-05494
REDV 25/08S SV	25	8	MMS-HY-05495
REDV 25/10S SV	25	10	MMS-HY-05496
REDV 25/12S SV	25	12	MMS-HY-05497
REDV 25/14S SV	25	14	MMS-HY-05498
REDV 25/16S SV	25	16	MMS-HY-05499
REDV 30/12S SV	30	20	MMS-HY-05500
REDV 25/20S SV	25	6	MMS-HY-05501
REDV 30/06S SV	30	8	MMS-HY-05502
REDV 30/08S SV	30	10	MMS-HY-05503
REDV 30/10S SV	30	12	MMS-HY-05504
REDV 30/14S SV	30	14	MMS-HY-05505
REDV 30/16S SV	30	16	MMS-HY-05506
REDV 30/20S SV	30	20	MMS-HY-05507
REDV 30/25S SV	30	25	MMS-HY-05508
REDV 38/06S SV	38	6	MMS-HY-05509
REDV 38/08S SV	38	8	MMS-HY-05510
REDV 38/10S SV	38	10	MMS-HY-05511
REDV 38/12S SV	38	12	MMS-HY-05512
REDV 38/14S SV	38	14	MMS-HY-05513
REDV 38/16S SV	38	16	MMS-HY-05514
REDV 38/20S SV	38	20	MMS-HY-05515
REDV 38/25S SV	38	25	MMS-HY-05516
REDV 38/30S SV	38	30	MMS-HY-05517

FEMALE CUTTING RING THREAD - MALE NPT

Description	A mm	B	REF
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**LIGHT**

EGES 06L 1/8NPT SV	6	1/8	MMS-HY-05518
EGES 08L 1/4NPT SV	8	1/4	MMS-HY-05519
EGES 08L 3/8NPT SV	8	3/8	MMS-HY-05520
EGES 10L 1/4NPT SV	10	1/4	MMS-HY-05521
EGES 10L 3/8NPT SV	10	3/8	MMS-HY-05522
EGES 10L 1/2NPT SV	10	1/2	MMS-HY-05523
EGES 12L 1/4NPT SV	12	1/4	MMS-HY-05524
EGES 12L 3/8NPT SV	12	3/8	MMS-HY-05525
EGES 12L 1/2NPT SV	12	1/2	MMS-HY-05526
EGES 13N 1/4NPT SV	13	1/4	MMS-HY-05527
EGES 13N 3/8NPT SV	13	3/8	MMS-HY-05528
EGES 13N 1/2NPT SV	13	1/2	MMS-HY-05529
EGES 15L 3/8NPT SV	15	3/8	MMS-HY-05530

Description	A mm	B	REF
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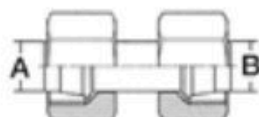
EGES 15L 1/2NPT SV	15	1/2	MMS-HY-05531
EGES 17N 3/8NPT SV	17	3/8	MMS-HY-05532
EGES 17N 1/2NPT SV	17	1/2	MMS-HY-05533
EGES 17N 3/4NPT SV	17	3/4	MMS-HY-05534
EGES 18L 1/2NPT SV	18	1/2	MMS-HY-05535
EGES 22L 3/4NPT SV	22	3/4	MMS-HY-05536
EGES 28L 1NPT SV	28	1	MMS-HY-05537
EGES 35L 1 1/4NPT SV	35	1 1/4	MMS-HY-05538
EGES 42L 1 1/2NPT SV	42	1 1/2	MMS-HY-05539

HEAVY-DUTY

EGES 06S 1/4NPT SV	6	1/4	MMS-HY-05540
EGES 08S 1/4NPT SV	8	1/4	MMS-HY-05541
EGES 10S 3/8NPT SV	10	3/8	MMS-HY-05542
EGES 12S 3/8NPT SV	12	3/8	MMS-HY-05543
EGES 14S 1/2NPT SV	14	1/2	MMS-HY-05544
EGES 16S 1/2NPT SV	16	1/2	MMS-HY-05545
EGES 20S 3/4NPT SV	20	3/4	MMS-HY-05546
EGES 25S 1NPT SV	25	1	MMS-HY-05547
EGES 30S 1 1/4NPT SV	30	1 1/4	MMS-HY-05548
EGES 38S 1 1/2NPT SV	38	1 1/2	MMS-HY-05549

FEMALE CUTTING RING THREAD - FEMALE CUTTING RING THREAD

Description	A mm	B mm	REF
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**LIGHT**

NV 06L	6	6	MMS-HY-05550
NV 08L	8	8	MMS-HY-05551
NV 10L	10	10	MMS-HY-05552
NV 12L-10L	12	10	MMS-HY-05553
NV 12L	12	12	MMS-HY-05554
NV 13N-12L	13	12	MMS-HY-05555
NV 13N	13	13	MMS-HY-05556
NV 15L-13N	15	13	MMS-HY-05557
NV 15L	15	15	MMS-HY-05558
NV 17N-13N	17	13	MMS-HY-05559
NV 17N-15L	17	15	MMS-HY-05560
NV 17N	17	17	MMS-HY-05561
NV 18L	18	18	MMS-HY-05562

Description	A mm	B mm	REF
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NV 22L	22	22	MMS-HY-05563
NV 28L	28	28	MMS-HY-05564

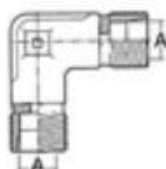
HEAVY-DUTY

NV 06S	6	6	MMS-HY-05565
NV 08S	8	8	MMS-HY-05566
NV 10S	10	10	MMS-HY-05567
NV 12S	12	12	MMS-HY-05568
NV 14S	14	14	MMS-HY-05569
NV 16S	16	16	MMS-HY-05570
NV 20S	20	20	MMS-HY-05571
NV 25S	25	25	MMS-HY-05572
NV 30S	30	30	MMS-HY-05573
NV 38S	38	38	MMS-HY-05574

CUTTING RING FITTINGS

90° CUTTING RING THREADED

Description	A mm	REF
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ULTRA-LIGHT

WV 04LL	4	MMS-HY-05575
WV 06LL	6	MMS-HY-05576
WV 08LL	8	MMS-HY-05577

LIGHT

WV 06L	6	MMS-HY-05578
WV 08L	8	MMS-HY-05579
WV 08/06L	8-6	MMS-HY-05580
WV 10L	10	MMS-HY-05581
WV 12L	12	MMS-HY-05582
WV 13L	13	MMS-HY-05583
WV 14N	14	MMS-HY-05584
WV 15L	15	MMS-HY-05585
WV 17L	17	MMS-HY-05586
WV 18L	18	MMS-HY-05587
WV 21L	21	MMS-HY-05588

Description	A mm	REF
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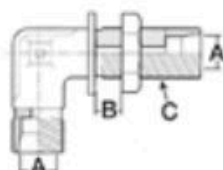
WV 22L	22	MMS-HY-05589
WV 27L	27	MMS-HY-05590
WV 28L	28	MMS-HY-05591
WV 33L	33	MMS-HY-05592
WV 35L	35	MMS-HY-05593
WV 42L	42	MMS-HY-05594

HEAVY-DUTY

WV 06S	6	MMS-HY-05595
WV 08S	8	MMS-HY-05596
WV 10S	10	MMS-HY-05597
WV 12S	12	MMS-HY-05598
WV 14S	14	MMS-HY-05599
WV 16S	16	MMS-HY-05600
WV 20S	20	MMS-HY-05601
WV 25S	25	MMS-HY-05602
WV 30S	30	MMS-HY-05603
WV 38S	38	MMS-HY-05604

90° BULKHEAD CUTTING RING THREAD

Description	A mm	B min	B max	C	REF
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LIGHT

WSV 06L	6	4	16	M12x1.5	MMS-HY-05605
WSV 08L	8	4	16	M14x1.5	MMS-HY-05606
WSV 10L	10	4	16	M16x1.5	MMS-HY-05607
WSV 12L	12	4	16	M18x1.5	MMS-HY-05608
WSV 15L	15	4	16	M22x1.5	MMS-HY-05609
WSV 18L	18	4	16	M26x1.5	MMS-HY-05610
WSV 22L	22	5	16	M30x2.0	MMS-HY-05611
WSV 28L	28	5	16	M36x2.0	MMS-HY-05612
WSV 35L	35	5	16	M45x2.0	MMS-HY-05613
WSV 42L	42	5	16	M52x2.0	MMS-HY-05614

HEAVY-DUTY

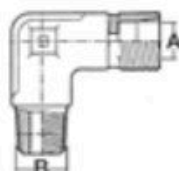
WSV 06S	6	4	16	M14x1.5	MMS-HY-05615
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Description	A mm	B min	B max	C	REF
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WSV 08S	8	4	16	M16x1.5	MMS-HY-05616
WSV 10S	10	4	16	M18x1.5	MMS-HY-05617
WSV 12S	12	4	16	M20x1.5	MMS-HY-05618
WSV 14S	14	4	16	M22x1.5	MMS-HY-05619
WSV 16S	16	4	16	M24x1.5	MMS-HY-05620
WSV 20S	20	5	16	M30x2.0	MMS-HY-05621
WSV 25S	25	5	16	M36x2.0	MMS-HY-05622
WSV 30S	30	5	16	M42x2.0	MMS-HY-05623
WSV 38S	38	5	16	M52x2.0	MMS-HY-05624

90° BSPT - CUTTING RING THREAD FITTING

Description	A mm	B	REF
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**ULTRA-LIGHT**

WEV 04LL RK1/8	4	1/8	MMS-HY-05625
WEV 06LL RK1/8	6	1/8	MMS-HY-05626
WEV 08LL RK1/8	8	1/8	MMS-HY-05627

LIGHT

WEV 06L RK1/8	6	1/8	MMS-HY-05628
WEV 06L RK1/4	6	1/4	MMS-HY-05629
WEV 08L RK1/4	8	1/4	MMS-HY-05630
WEV 08L RK3/8	8	3/8	MMS-HY-05631
WEV 10L RK1/4	10	1/4	MMS-HY-05632
WEV 10L RK3/8	10	3/8	MMS-HY-05633
WEV 10L RK1/2	10	1/2	MMS-HY-05634
WEV 12L RK1/4	12	1/4	MMS-HY-05635
WEV 12L RK3/8	12	3/8	MMS-HY-05636
WEV 12L RK1/2	12	1/2	MMS-HY-05637
WEV 13L RK1/4	13	1/4	MMS-HY-05638
WEV 13L RK3/8	13	3/8	MMS-HY-05639
WEV 13L RK1/2	13	1/2	MMS-HY-05640
WEV 14L RK3/8	14	3/8	MMS-HY-05641

Description	A mm	B	REF
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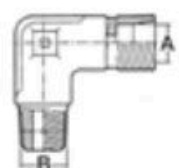
WEV 15L RK3/8	15	3/8	MMS-HY-05642
WEV 15L RK1/2	15	1/2	MMS-HY-05643
WEV 17L RK1/4	17	1/4	MMS-HY-05644
WEV 17L RK3/8	17	3/8	MMS-HY-05645
WEV 17L RK1/2	17	1/2	MMS-HY-05646
WEV 18L RK1/2	18	1/2	MMS-HY-05647
WEV 18L RK3/4	18	3/4	MMS-HY-05648
WEV 20L RK3/4	20	3/4	MMS-HY-05649
WEV 21L RK1/2	21	1/2	MMS-HY-05650
WEV 21L RK3/4	21	3/4	MMS-HY-05651
WEV 22L RK3/4	22	3/4	MMS-HY-05652
WEV 27L RK3/4	27	3/4	MMS-HY-05653
WEV 27L RK1	27	1	MMS-HY-05654

HEAVY-DUTY

WEV 06S RK1/4	6	1/4	MMS-HY-05655
WEV 08S RK1/4	8	1/4	MMS-HY-05656
WEV 10S RK3/8	10	3/8	MMS-HY-05657
WEV 12S RK3/8	12	3/8	MMS-HY-05658
WEV 12S RK1/2	12	1/2	MMS-HY-05659
WEV 14S RK3/8	14	3/8	MMS-HY-05660
WEV 14S RK1/2	14	1/2	MMS-HY-05661
WEV 16S RK3/8	16	3/8	MMS-HY-05662
WEV 16S RK1/2	16	1/2	MMS-HY-05663
WEV 25S RK1	25	1	MMS-HY-05664

90° METRIC CONICAL - CUTTING RING THREAD

Description	A mm	B	REF
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**ULTRA-LIGHT**

WEV 04LL MK6x1.0	4	M6x1.0	MMS-HY-05665
WEV 04LL MK8x1.0	4	M8x1.0	MMS-HY-05666
WEV 05LL MK8x1.0	5	M8x1.0	MMS-HY-05667
WEV 06LL MK6x1.0	6	M6x1.0	MMS-HY-05668
WEV 06LL MK8x1.0	6	M8x1.0	MMS-HY-05669
WEV 06LL MK10x1.0	6	M10x1.0	MMS-HY-05670
WEV 08LL MK10x1.0	8	M10x1.0	MMS-HY-05671

LIGHT

WEV 06L MK10x1.0	6	M10x1.0	MMS-HY-05672
WEV 08L MK12x1.5	8	M12x1.5	MMS-HY-05673
WEV 10L MK14x1.5	10	M14x1.5	MMS-HY-05674
WEV 12L MK16x1.5	12	M16x1.5	MMS-HY-05675

Description	A mm	B	REF
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WEV 15L MK18x1.5	15	M18x1.5	MMS-HY-05676
WEV 18L MK22x1.5	18	M22x1.5	MMS-HY-05677

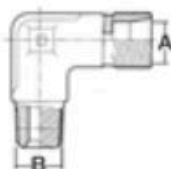
HEAVY-DUTY

WEV 06S MK12x1.5	6	M12x1.5	MMS-HY-05678
WEV 08S MK14x1.5	8	M14x1.5	MMS-HY-05679
WEV 10S MK16x1.5	10	M16x1.5	MMS-HY-05680
WEV 12S MK18x1.5	12	M18x1.5	MMS-HY-05681
WEV 14S MK20x1.5	14	M20x1.5	MMS-HY-05682
WEV 16S MK22x1.5	16	M22x1.5	MMS-HY-05683

CUTTING RING FITTINGS

90° NPT - CUTTING RING THREAD

Description	A mm	B NPT	REF
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ULTRA-LIGHT

WEV 04LL 1/8NPT	8	1/8	MMS-HY-05684
WEV 06LL 1/8NPT	4	1/8	MMS-HY-05685
WEV 08LL 1/8NPT	6	1/8	MMS-HY-05686

LIGHT

WEV 06L 1/8NPT	8	1/8	MMS-HY-05687
WEV 06L 1/4NPT	6	1/4	MMS-HY-05688
WEV 08L 1/8NPT	6	1/8	MMS-HY-05689
WEV 08L 1/4NPT	8	1/4	MMS-HY-05690
WEV 10L 1/4NPT	10	1/4	MMS-HY-05691
WEV 10L 3/8NPT	10	3/8	MMS-HY-05692
WEV 12L 1/4NPT	12	1/4	MMS-HY-05693
WEV 12L 3/8NPT	12	3/8	MMS-HY-05694
WEV 15L 3/8NPT	15	3/8	MMS-HY-05695
WEV 15L 1/2NPT	15	1/2	MMS-HY-05696
WEV 17L 1/2NPT	17	1/2	MMS-HY-05697

Description	A mm	B NPT	REF
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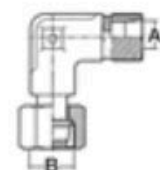
WEV 18L 1/2NPT	18	1/2	MMS-HY-05698
WEV 22L 3/4NPT	22	3/4	MMS-HY-05699
WEV 28L 1NPT	28	1	MMS-HY-05700
WEV 35L 1 1/4NPT	35	1 1/4	MMS-HY-05701
WEV 42L 1 1/2NPT	42	1 1/2	MMS-HY-05702

HEAVY-DUTY

WEV 06S 1/4NPT	6	1/4	MMS-HY-05703
WEV 08S 1/4NPT	8	1/4	MMS-HY-05704
WEV 10S 3/8NPT	10	3/8	MMS-HY-05705
WEV 12S 3/8NPT	12	3/8	MMS-HY-05706
WEV 12S 1/2NPT	12	1/2	MMS-HY-05707
WEV 14S 3/8NPT	14	3/8	MMS-HY-05708
WEV 14S 1/2NPT	14	1/2	MMS-HY-05709
WEV 16S 1/2NPT	16	1/2	MMS-HY-05710
WEV 20S 1/2NPT	20	1/2	MMS-HY-05711
WEV 20S 3/4NPT	20	3/4	MMS-HY-05712
WEV 25S 1NPT	25	1	MMS-HY-05713
WEV 30S 1 1/4NPT	30	1 1/4	MMS-HY-05714
WEV 38S 1 1/2NPT	38	1 1/2	MMS-HY-05715

90° ADJUSTABLE CUTTING RING FITTING

Description	A mm	B mm	REF
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LIGHT

EWV 06L SV	6	6	MMS-HY-05716
EWV 08L SV	8	8	MMS-HY-05717
EWV 10L SV	10	10	MMS-HY-05718
EWV 12L SV	12	12	MMS-HY-05719
EWV 13N SV	13	13	MMS-HY-05720
EWV 14L SV	14	14	MMS-HY-05721
EWV 15L SV	15	15	MMS-HY-05722
EWV 17N SV	17	17	MMS-HY-05723
EWV 18L SV	18	18	MMS-HY-05724
EWV 21N SV	21	21	MMS-HY-05725
EWV 22L SV	22	22	MMS-HY-05726
EWV 27L SV	27	27	MMS-HY-05727
EWV 28L SV	28	28	MMS-HY-05728
EWV 33N SV	33	33	MMS-HY-05729
EWV 35L SV	35	35	MMS-HY-05730

Description	A mm	B mm	REF
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EWV 42L SV	42	42	MMS-HY-05731
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HEAVY-DUTY

EWV 42L SV	6	6	MMS-HY-05732
EWV 08S SV	8	8	MMS-HY-05733
EWV 10S SV	10	10	MMS-HY-05734
EWV 12S SV	12	12	MMS-HY-05735
EWV 14S SV	14	14	MMS-HY-05736
EWV 16S SV	16	16	MMS-HY-05737
EWV 20S SV	20	20	MMS-HY-05738
EWV 25S SV	25	25	MMS-HY-05739
EWV 30S SV	30	30	MMS-HY-05740
EWV 38S SV	38	38	MMS-HY-05741

90° ADJUSTABLE MALE METRIC - CUTTING RING FITTING

Description	Ø Tube mm	M	REF
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Description	Ø Tube mm	M	REF
WEV 25S MMO 33x2.0	25	M33x2.0	MMS-HY-05759
WEV 30S MMO 42x2.0	30	M42x2.0	MMS-HY-05760
WEV 38S MMO 48x2.0	38	M48x2.0	MMS-HY-05761

LIGHT

WEV 06L MMO 10x1	6	M10x1.0	MMS-HY-05742
WEV 08L MMO 12x1.5	8	M12x1.5	MMS-HY-05743
WEV 10L MMO 14x1.5	10	M14x1.5	MMS-HY-05744
WEV 12L MMO 16x1.5	12	M16x1.5	MMS-HY-05745
WEV 15L MMO 18x1.5	15	M18x1.5	MMS-HY-05746
WEV 18L MMO 22x1.5	18	M22x1.5	MMS-HY-05747
WEV 22L MMO 27x2	27	M27x2.0	MMS-HY-05748
WEV 28L MMO 33x2	28	M28x2.0	MMS-HY-05749
WEV 35L MMO 42x2	35	M42x2.0	MMS-HY-05750
WEV 42L MMO 48x2	42	M48x2.0	MMS-HY-05751

HEAVY-DUTY

WEV 06S MMO 12x1.5	6	M12x1.5	MMS-HY-05752
WEV 08S MMO 14x1.5	8	M14x1.5	MMS-HY-05753
WEV 10S MMO 16x1.5	10	M16x1.5	MMS-HY-05754
WEV 12S MMO 18x1.5	12	M18x1.5	MMS-HY-05755
WEV 14S MMO 20x1.5	14	M20x1.5	MMS-HY-05756
WEV 16S MMO 22x1.5	16	M22x1.5	MMS-HY-05757
WEV 20S MMO 27x2.0	20	M27x2.0	MMS-HY-05758

90° ADJUSTABLE MALE BSP - CUTTING RING FITTING

Description	Ø Tube mm	G	REF
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**LIGHT**

WEV 06L BMO 1/8	6	G 1/8	MMS-HY-05762
WEV 08L BMO 1/4	8	G 1/4	MMS-HY-05763
WEV 10L BMO 1/4	10	G 1/4	MMS-HY-05764
WEV 12L BMO 3/8	12	G 3/8	MMS-HY-05765
WEV 15L BMO 1/2	15	G 1/2	MMS-HY-05766
WEV 18L BMO 1/2	18	G 1/2	MMS-HY-05767
WEV 22L BMO 3/4	27	G 3/4	MMS-HY-05768
WEV 28L BMO 1	28	G 1	MMS-HY-05769
WEV 35L BMO 1 1/4	35	G 1 1/4	MMS-HY-05770
WEV 42L BMO 1 1/2	42	G 1 1/2	MMS-HY-05771

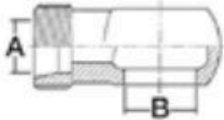
HEAVY-DUTY

WEV 06S BMO 1/4	6	G 1/4	MMS-HY-05772
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Description	Ø Tube mm	G	REF
WEV 08S BMO 1/4	8	G 1/4	MMS-HY-05773
WEV 10S BMO 3/8	10	G 3/8	MMS-HY-05774
WEV 12S BMO 3/8	12	G 3/8	MMS-HY-05775
WEV 14S BMO 1/2	14	G 1/2	MMS-HY-05776
WEV 16S BMO 1/2	16	G 1/2	MMS-HY-05777
WEV 20S BMO 3/4	20	G 3/4	MMS-HY-05778
WEV 25S BMO 1	25	G 1	MMS-HY-05779
WEV 30S BMO 1 1/4	30	G 1 1/4	MMS-HY-05780
WEV 38S BMO 1 1/2	38	G 1 1/2	MMS-HY-05781

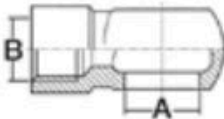
CUTTING RING FITTINGS

CUTTING RING THREAD - BANJO EYE

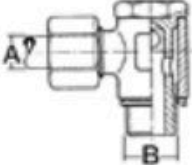
Description	A mm	B mm	REF
			
BO14 GP TM10 V	10	14	MMS-HY-05782
BO16 GP TM12 V	12	16	MMS-HY-05783

Description	A mm	B mm	REF
BO18 GP TM12 V	12	18	MMS-HY-05784
BO18 GP TM13 V	13	18	MMS-HY-05785
BO18 GP TM15 V	15	18	MMS-HY-05786

FEMALE BSP - BANJO EYE

Description	A mm	B BSP	REF
			
BO18FG3/8	18	3/8	MMS-HY-05787

BANJO METRIC THREAD - CUTTING RING THREAD

Description	A mm	B	REF
			

Description	A mm	B	REF
SWV 08 S M14x1.5	8	M14x1.5	MMS-HY-05801
SWV 10 S M16x1.5	10	M16x1.5	MMS-HY-05802
SWV 12 S M18x1.5	12	M18x1.5	MMS-HY-05803
SWV 14 S M20x1.5	14	M20x1.5	MMS-HY-05804
SWV 16 S M22x1.5	16	M22x1.5	MMS-HY-05805
SWV 20 S M27x2.0	20	M27x2.0	MMS-HY-05806

ULTRA-LIGHT

SWV 04 LL M8x1.0	4	M8 x 1.0	MMS-HY-05788
SWV 06 LL M10x1.0	6	M10x1.0	MMS-HY-05789
SWV 08 LL M10x1.0	8	M10x1.0	MMS-HY-05790

LIGHT

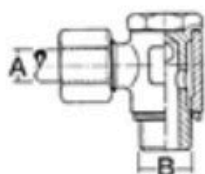
SWV 06 L M10x1.0	6	M10x1.0	MMS-HY-05791
SWV 08 L M12x1.5	8	M12x1.5	MMS-HY-05792
SWV 10 L M14x1.5	10	M14x1.5	MMS-HY-05793
SWV 12 L M16x1.5	12	M16x1.5	MMS-HY-05794
SWV 12 L M18x1.5	12	M18x1.5	MMS-HY-05795
SWV 15 L M18x1.5	15	M18x1.5	MMS-HY-05796
SWV 18 L M22x1.5	18	M22x1.5	MMS-HY-05797
SWV 22 L M26x1.5	22	M26x1.5	MMS-HY-05798
SWV 28 L M33x2.0	28	M33x2.0	MMS-HY-05799

HEAVY-DUTY

SWV 06 S M12x1.5	6	M12x1.5	MMS-HY-05800
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BANJO BSP THREAD - CUTTING RING THREAD

Description	A mm	B	REF
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**ULTRA-LIGHT**

SWV 04 LL R1/8	4	G 1/8	MMS-HY-05807
SWV 06 LL R1/8	6	G 1/8	MMS-HY-05808
SWV 08 LL R1/8	8	G 1/8	MMS-HY-05809

LIGHT

SWV 06 L R1/8	6	G 1/8	MMS-HY-05810
SWV 06 L R1/4	6	G 1/4	MMS-HY-05811
SWV 08 L R1/4	8	G 1/4	MMS-HY-05812
SWV 10 L R1/4	10	G 1/4	MMS-HY-05813
SWV 12 L R1/4	12	G 1/4	MMS-HY-05814
SWV 12 L R3/8	12	G 3/8	MMS-HY-05815
SWV 12 L R1/2	12	G 1/2	MMS-HY-05816
SWV 15 L R1/2	15	G 1/2	MMS-HY-05817
SWV 18 L R1/2	18	G 1/2	MMS-HY-05818
SWV 22 L R3/4	22	G 3/4	MMS-HY-05819
SWV 28 L R1	28	G 1	MMS-HY-05820

Description	A mm	B	REF
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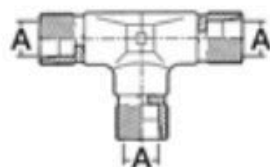
HEAVY-DUTY

SWV 06 S R1/4	6	G 1/4	MMS-HY-05821
SWV 08 S R1/4	8	G 1/4	MMS-HY-05822
SWV 10 S R3/8	10	G 3/8	MMS-HY-05823
SWV 12 S R3/8	12	G 3/8	MMS-HY-05824
SWV 14 S R1/2	14	G 1/2	MMS-HY-05825
SWV 16 S R1/2	16	G 1/2	MMS-HY-05826
SWV 20 S R3/4	20	G 3/4	MMS-HY-05827
SWV 25 S R1	25	G 1	MMS-HY-05828

CUTTING RING FITTINGS

T-FITTING - CUTTING RING THREAD

Description	A mm	REF
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ULTRA-LIGHT

TV 04LL	4	MMS-HY-05829
TV 06LL	6	MMS-HY-05830
TV 08LL	8	MMS-HY-05831

LIGHT

TV 06L	6	MMS-HY-05832
TV 08L	8	MMS-HY-05833
TV 10L	10	MMS-HY-05834
TV 12L	12	MMS-HY-05835
TV 13L	13	MMS-HY-05836
TV 14N	14	MMS-HY-05837
TV 15L	15	MMS-HY-05838
TV 17L	17	MMS-HY-05839
TV 18L	18	MMS-HY-05840
TV 21L	21	MMS-HY-05841
TV 22L	22	MMS-HY-05842

Description	A mm	REF
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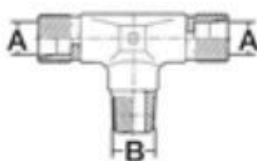
TV 27L	27	MMS-HY-05843
TV 28L	28	MMS-HY-05844
TV 35L	35	MMS-HY-05845
TV 42L	42	MMS-HY-05846

HEAVY-DUTY

TV 06S	6	MMS-HY-05847
TV 08S	8	MMS-HY-05848
TV 10S	10	MMS-HY-05849
TV 12S	12	MMS-HY-05850
TV 14S	14	MMS-HY-05851
TV 16S	16	MMS-HY-05852
TV 20S	20	MMS-HY-05853
TV 25S	25	MMS-HY-05854
TV 30S	30	MMS-HY-05855
TV 38S	38	MMS-HY-05856

T-FITTING - CONICAL BSP THREAD

Description	A mm	B	REF
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ULTRA-LIGHT

TEV 04LL RK1/8	4	1/8	MMS-HY-05857
TEV 06LL RK1/8	6	1/8	MMS-HY-05858
TEV 08LL RK1/8	8	1/8	MMS-HY-05859

LIGHT

TEV 06L RK1/8	6	1/8	MMS-HY-05860
TEV 08L RK1/4	8	1/4	MMS-HY-05861
TEV 10L RK1/4	10	1/4	MMS-HY-05862
TEV 12L RK1/4	12	1/4	MMS-HY-05863
TEV 12L RK3/8	12	3/8	MMS-HY-05864
TEV 13L RK3/8	13	3/8	MMS-HY-05865
TEV 15L RK1/2	15	1/2	MMS-HY-05866
TEV 18L RK1/2	18	1/2	MMS-HY-05867

HEAVY-DUTY

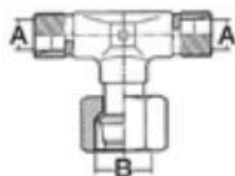
TEV 06S RK1/4	6	1/4	MMS-HY-05868
TEV 08S RK1/4	8	1/4	MMS-HY-05869

Description	A mm	B	REF
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TEV 10S RK3/8	10	3/8	MMS-HY-05870
TEV 12S RK3/8	12	3/8	MMS-HY-05871
TEV 14S RK1/2	14	1/2	MMS-HY-05872
TEV 16S RK1/2	16	1/2	MMS-HY-05873

ADJUSTABLE T-CUTTING RING FITTING

Description	A mm	B mm	REF
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**LIGHT**

ETV 06L SV	6	6	MMS-HY-05874
ETV 08L SV	8	8	MMS-HY-05875
ETV 10L SV	10	10	MMS-HY-05876
ETV 12L SV	12	12	MMS-HY-05877
ETV 13L SV	13	13	MMS-HY-05878
ETV 15L SV	15	15	MMS-HY-05879
ETV 17L SV	17	17	MMS-HY-05880
ETV 18L SV	18	18	MMS-HY-05881
ETV 22L SV	22	22	MMS-HY-05882
ETV 28L SV	28	28	MMS-HY-05883
ETV 35L SV	35	35	MMS-HY-05884
ETV 42L SV	42	42	MMS-HY-05885

HEAVY-DUTY

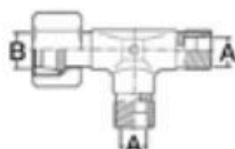
ETV 06S SV	6	6	MMS-HY-05886
ETV 08S SV	8	8	MMS-HY-05887

Description	A mm	B mm	REF
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ETV 10S SV	10	10	MMS-HY-05888
ETV 12S SV	12	12	MMS-HY-05889
ETV 14S SV	14	14	MMS-HY-05890
ETV 16S SV	16	16	MMS-HY-05891
ETV 20S SV	20	20	MMS-HY-05892
ETV 25S SV	25	25	MMS-HY-05893
ETV 30S SV	30	30	MMS-HY-05894
ETV 38S SV	38	38	MMS-HY-05895

ADJUSTABLE L-CUTTING RING FITTING

Description	A mm	B mm	REF
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**LIGHT**

ELV 06L SV	6	6	MMS-HY-05896
ELV 08L SV	8	8	MMS-HY-05897
ELV 10L SV	10	10	MMS-HY-05898
ELV 12L SV	12	12	MMS-HY-05899
ELV 13L SV	13	13	MMS-HY-05900
ELV 15L SV	15	15	MMS-HY-05901
ELV 17L SV	17	17	MMS-HY-05902
ELV 18L SV	18	18	MMS-HY-05903
ELV 22L SV	22	22	MMS-HY-05904
ELV 28L SV	28	28	MMS-HY-05905
ELV 35L SV	35	35	MMS-HY-05906
ELV 42L SV	42	42	MMS-HY-05907

HEAVY-DUTY

ELV 06S SV	6	6	MMS-HY-05908
ELV 08S SV	8	8	MMS-HY-05909

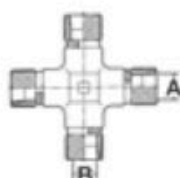
Description	A mm	B mm	REF
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ELV 10S SV	10	10	MMS-HY-05910
ELV 14S SV	12	12	MMS-HY-05911
ELV 16S SV	14	14	MMS-HY-05912
ELV 20S SV	16	16	MMS-HY-05913
ELV 25S SV	20	20	MMS-HY-05914
ELV 30S SV	25	25	MMS-HY-05915
ELV 38S SV	30	30	MMS-HY-05916
ELV 12S SV	38	38	MMS-HY-05917

CUTTING RING FITTINGS

CUTTING RING THREADED CROSS FITTING

Description	A mm	REF
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ULTRA-LIGHT

KV 04LL	4	MMS-HY-05918
KV 06LL	6	MMS-HY-05919
KV 08LL	8	MMS-HY-05920

LIGHT

KV 06L	6	MMS-HY-05921
KV 08L	8	MMS-HY-05922
KV 10L	10	MMS-HY-05923
KV 12L	12	MMS-HY-05924
KV 13L	13	MMS-HY-05925
KV 15L	15	MMS-HY-05926
KV 17L	17	MMS-HY-05927
KV 18L	18	MMS-HY-05928
KV 22L	22	MMS-HY-05929
KV 28L	28	MMS-HY-05930
KV 35L	35	MMS-HY-05931

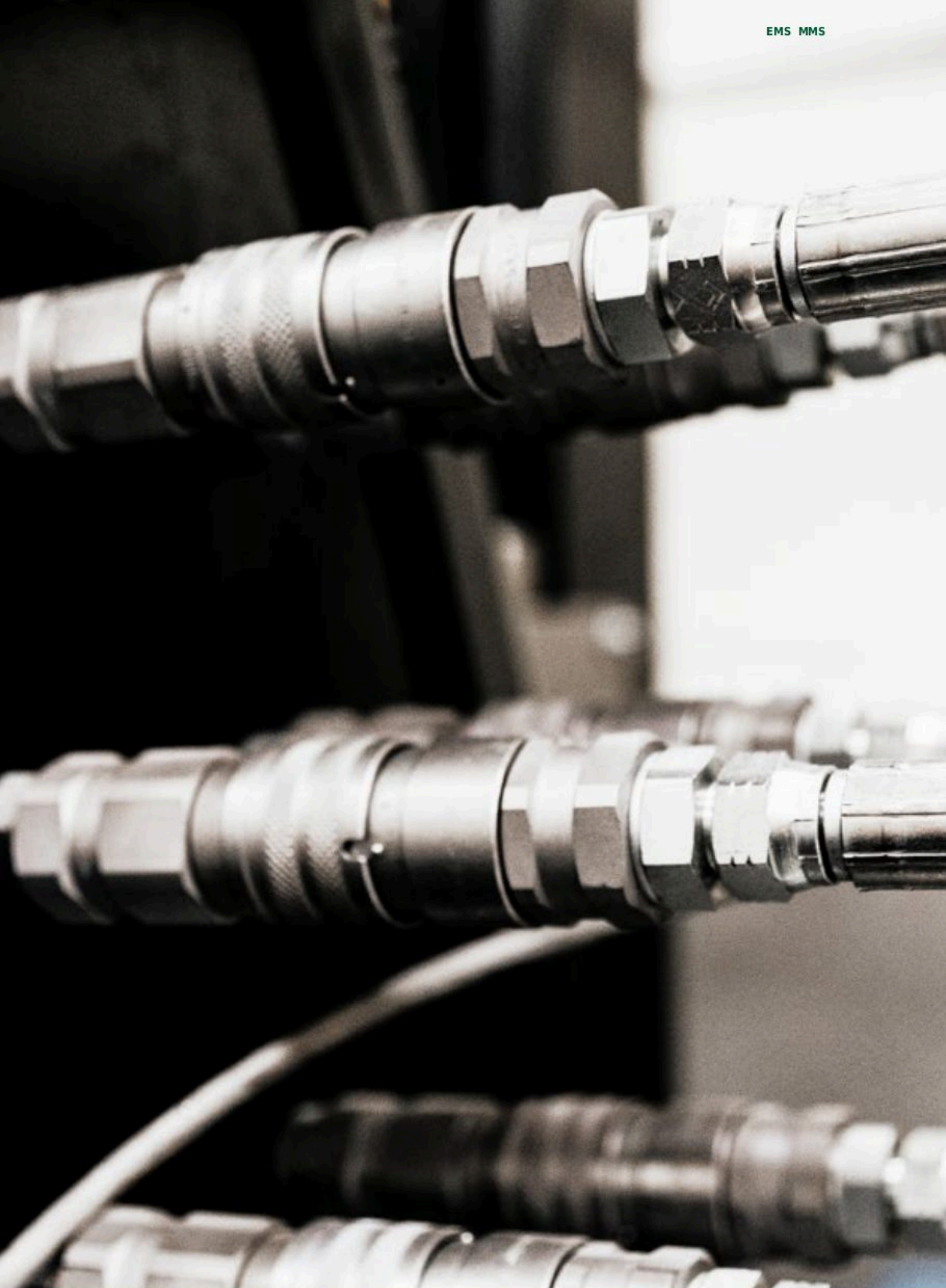
Description	A mm	REF
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KV 42L 42 MMS-HY-05932

HEAVY-DUTY

KV 06S	6	MMS-HY-05933
KV 08S	8	MMS-HY-05934
KV 10S	10	MMS-HY-05935
KV 12S	12	MMS-HY-05936
KV 14S	14	MMS-HY-05937
KV 16S	16	MMS-HY-05938
KV 20S	20	MMS-HY-05939
KV 25S	25	MMS-HY-05940
KV 30S	30	MMS-HY-05941
KV 38S	38	MMS-HY-05942

NOTES





07. **QUICK COUPLINGS**

QUICK COUPLINGS

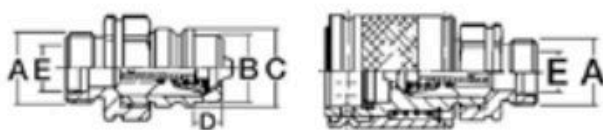
ISO A - FEMALE THREAD



Male version	Female version	Size	A	Bar	B mm	REF male	REF fem.
QRAM04-04BFF	QRAF04-04BFF	1/4"	1/4 BSP	250	11.8	MMS-HY-059	MMS-HY-05944
QRAM04-04BFFBALL	QRAF04-04BFFBALL	1/4"	1/4 BSP	350	11.8	MMS-HY-059	MMS-HY-05946
QRAM06-06BFF	QRAF06-06BFF	3/8"	3/8 BSP	315	17.3	MMS-HY-059	MMS-HY-05948
QRAM06-06BFFFREE FLOW	QRAF06-06BFFFREE FLOW	3/8"	3/8 BSP	315	17.3	MMS-HY-059	MMS-HY-05950
QRAM06-06BFFBALL	QRAF06-06BFFBALL	3/8"	3/8 BSP	250	17.3	MMS-HY-059	MMS-HY-05952
QRAM08-06BFF	QRAF08-06BFF	1/2"	3/8 BSP	250	20.5	MMS-HY-059	MMS-HY-05954
QRAM08-08BFF	QRAF08-08BFF	1/2"	1/2 BSP	250	20.5	MMS-HY-059	MMS-HY-05956
QRAM08-08BFFBALL	QRAF08-08BFFBALL	1/2"	1/2 BSP	250	20.5	MMS-HY-059	MMS-HY-05958
QRAM08-08BFFFREE FLOW	QRAF08-08BFFFREE FLOW	1/2"	1/2 BSP	250	20.5	MMS-HY-059	MMS-HY-05960
QRAM08-08BFFPRES	QRAF08-08BFFPRES	1/2"	1/2 BSP	250	20.5	MMS-HY-059	MMS-HY-05962
QRAM08-18MFF	QRAF08-18MFF	1/2"	M18x1.5	250	20.5	MMS-HY-059	MMS-HY-05964
QRAM08-22MFF	QRAF08-22MFF	1/2"	M22x1.5	250	20.5	MMS-HY-059	MMS-HY-05966
QRAM08-08NF	QRAF08-08NF	1/2"	1/2 NPT	250	20.5	MMS-HY-059	MMS-HY-05968
QRAM08-3/4UFF	QRAF08-3/4UFF	1/2"	3/4 UNF	250	20.5	MMS-HY-059	MMS-HY-05970
QRAM08-7/8UFF	QRAF08-7/8UFF	1/2"	7/8 UNF	250	20.5	MMS-HY-059	MMS-HY-05972
QRAM12-12BFF	QRAF12-12BFF	3/4"	3/4 BSP	250	29.1	MMS-HY-059	MMS-HY-05974
QRAM12-12BFFFREE FLOW	QRAF12-12BFFFREE FLOW	3/4"	3/4 BSP	250	29.1	MMS-HY-059	MMS-HY-05976
QRAM16-16BFF	QRAF16-16BFF	1"	1 BSP	200	34.3	MMS-HY-059	MMS-HY-05978
QRAM20-20BFF	QRAF20-20BFF	1 1/4"	1 1/4" BSP	250	45	MMS-HY-059	MMS-HY-05980
QRAM24-24BFF	QRAF24-24BFF	1 1/2"	1 1/2" BSP	200	55	MMS-HY-059	MMS-HY-05982
QRAM32-32BFF	QRAF32-32BFF	2"	2 BSP	190	65.1	MMS-HY-059	MMS-HY-05984

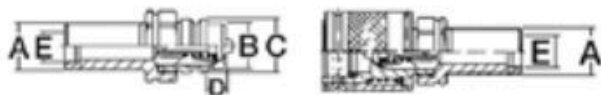
* suitable for Faster - Parker - Aéroquip - Gromellle - Stucchi - Snap - Tema ...

ISO A - FOR MALE METRIC TUBE



Male version	Female version	Size	A	Bar	B mm	REF male	REF fem.
QRAM 08-18 ME12	QRAF 08-18 ME12	1/2"	M18 x 1.5	250	20.5	MMS-HY-059	MMS-HY-05986
QRAM 08-20 ME12	QRAF 08-20 ME12	1/2"	M20 x 1.5	250	20.5	MMS-HY-059	MMS-HY-05988
QRAM 08-22 ME15	QRAF 08-22 ME15	1/2"	M22 x 1.5	250	20.5	MMS-HY-059	MMS-HY-05990
QRAM 12-20 ME12	QRAF 12-20 ME12	3/4"	M20 x 1.5	250	29.3	MMS-HY-05991	

* suitable for Faster - Parker - Aéroquip - Gromellle - Stucchi - Snap - Tema ...

ISO A - BULKHEAD METRIC TUBE

Male version	Female version	Size	A	Bar	B mm	REF male	REF fem.
QRAM08-16ME10-BL	QRAF08-16ME10-BL	1/2"	M16x1.5	250	20.5	MMS-HY-06	MMS-HY-06001
QRAM08-18ME12-BL	QRAF08-18ME12-BL	1/2"	M18x1.5	250	20.5	MMS-HY-06	MMS-HY-06003
QRAM08-18ME12-BLPRES	QRAF08-18ME12-BLPRES	1/2"	M18x1.5	250	20.5	MMS-HY-060	MMS-HY-06005
QRAM08-20ME12-BL	QRAF08-20ME12-BL	1/2"	M20x1.5	250	20.5	MMS-HY-06	MMS-HY-06007
QRAM08-20ME12-BLPRES	QRAF08-20ME12-BLPRES	1/2"	M20x1.5	250	20.5	MMS-HY-06	MMS-HY-06009
QRAM08-22ME15-BL	QRAF08-22ME15-BL	1/2"	M22x1.5	250	20.5	MMS-HY-060	MMS-HY-06011
QRAM08-24ME16-BL	QRAF08-24ME16-BL	1/2"	M24x1.5	250	20.5	MMS-HY-06	MMS-HY-06013
QRAM12-30ME20-BL	QRAF12-30ME20-BL	3/4"	M30x2.0	250	29.1	MMS-HY-060	MMS-HY-06015

* suitable for Faster - Parker - Aéroquip - Gromelle - Stucchi - Snap - Tema ...

QUICK COUPLING JIC

Male version	Female version	Size	A	Bar	REF male	REF fem.
QRAM 08-06 JM	QRAF 08-06 JM	1/2"	9/16 JIC	250	MMS-HY-059	MMS-HY-05997
QRAM 12-12 JM-BL	QRAF 12-12 JM-BL	3/4"	3/4 JIC	250	MMS-HY-059	MMS-HY-05999

QUICK COUPLING BULKHEAD JIC

Male version	Female version	Size	A	Bar	REF male	REF fem.
QRAM 08-06 JM-BL	QRAF 08-06 JM-BL	1/2"	9/16 JIC	250	MMS-HY-059	MMS-HY-05993
QRAM 08-12 JM-BL	QRAF 08-12 JM-BL	1/2"	3/4 JIC	250	MMS-HY-059	MMS-HY-05995

ISO A COUPLER CAPS



For male coupler	For female coupler	Size	Ø mm	REF male	REF fem.
GRAM 04 CAP	QRAF 04 CAP	1/4"	13	MMS-HY-06	MMS-HY-06017
GRAM 06 CAP	QRAF 06 CAP	3/8"	18.4	MMS-HY-06	MMS-HY-06019
GRAM 08 CAP	QRAF 08 CAP	1/2"	23.7	MMS-HY-06	MMS-HY-06021
GRAM 12 CAP	QRAF 12 CAP	3/4"	30.5	MMS-HY-06	MMS-HY-06023
GRAM 16 CAP	QRAF 16 CAP	1"	36.6	MMS-HY-06	MMS-HY-06025

ISO A FEMALE AUTOMATIC PLUGS



Type	Int. Ø mm	Color	REF
QRAF AUTOCAP RED	40	Red	MMS-HY-06026
QRAF AUTOCAP BLACK	40	Black	MMS-HY-06027
QRAF AUTOCAP BLUE	40	Blue	MMS-HY-06028
QRAF AUTOCAP GREEN	40	Green	MMS-HY-06029
QRAF AUTOCAP YELLOW	40	Yellow	MMS-HY-06030

SUPPORT FOR MALE COUPLERS



Size	Int. Ø mm	REF
1/2"	24	MMS-HY-06031

ISO A O-RING + BACK-UP RING

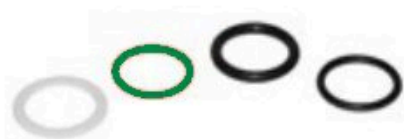


Type	Size	Ø mm	REF
QRAO 04	1/4"	11.8	MMS-HY-06032
QRAO 06	3/8"	17.3	MMS-HY-06033
QRAO 08	1/2"	20.5	MMS-HY-06034
QRAO 12	3/4"	29.1	MMS-HY-06035
QRAO 16	1"	34.3	MMS-HY-06036

ISO A QUAD RING



Type	Size	Ø mm	REF
QRAO 08 QUAD	1/2"	20.2	MMS-HY-06037

SET OF SEALS

Size	Dimensions	REF Set
1/2" (REF MMS-HY-06034)	BU 211 20.22 x 3.53	MMS-HY-06038
3/8" (REF MMS-HY-06033)	BU 117 20.30 x 2.62	

WELDING BRACKET TRACTOR SIDE

Length mm	Size	Int. Ø mm	REF
180 x 60	1/2"	38	MMS-HY-06039

WELDING BRACKET TRACTOR SIDE WITH FIXING SPRING

Spacing fixtures mm	Size	Int. Ø mm	REF
50	1/2"	38	MMS-HY-06040

QUICK COUPLINGS

ISO B - FEMALE THREAD



Male version	Female version	Size	A BSP	Bar	B mm	REF male	REF fem.
QRBM 04-04 BFF	QRBF 04-04 BFF	1/4"	1/4 BSP	350	14.2	MMS-HY-06	MMS-HY-06042
QRBM 06-06 BFF	QRBF 06-06 BFF	3/8"	3/8 BSP	325	19.1	MMS-HY-06	MMS-HY-06044
QRBM 08-08 BFF	QRBF 08-08 BFF	1/2"	1/2 BSP	250	23.5	MMS-HY-060	MMS-HY-06046
QRBM 12-12 BFF	QRBF 12-12 BFF	3/4"	3/4 BSP	250	31.9	MMS-HY-06	MMS-HY-06048
QRBM 16-16 BFF	QRBF 16-16 BFF	1"	1 BSP	225	37.8	MMS-HY-06	MMS-HY-06050

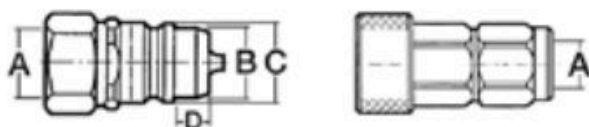
* suitable for Faster - Parker - Aéroquip - Gromelle - Stucchi - Snap - Tema ...

ISO B O-RING + BACK-UP RING



Type	Size	Ø mm	REF
QRBFO 04	1/4"	14.2	MMS-HY-06051

ISO V - FEMALE THREAD



Male version	Female version	Size	A BSP	Bar	B mm	REF male	REF fem.
QRVM 04-04 BFF	QRFV 04-04 BFF	1/4"	1/4 BSP	315	14.2	MMS-HY-060	MMS-HY-06053
QRVM 04-04 BFF BALL	QRFV 04-04 BFF BALL	1/4"	1/4 BSP	315	14.2	MMS-HY-060	MMS-HY-06055
QRVM 06-06 BFF	QRFV 06-06 BFF	3/8"	3/8 BSP	315	19	MMS-HY-06	MMS-HY-06057
QRVM 06-06 BFF BALL	QRFV 06-06 BFF BALL	3/8"	3/8 BSP	315	19	MMS-HY-060	MMS-HY-06059
QRVM 12-12 BFF	QRFV 12-12 BFF	3/4"	3/4 BSP	250	27.9	MMS-HY-06	MMS-HY-06061
QRVM 12-12 BFF BALL	QRFV 12-12 BFF BALL	3/4"	3/4 BSP	250	27.9	MMS-HY-060	MMS-HY-06063
QRVM 16-16 BFF	QRFV 16-16 BFF	1"	1 BSP	250	31.3	MMS-HY-06	MMS-HY-06065
QRVM 16-16 BFF BALL	QRFV 16-16 BFF BALL	1"	1 BSP	250	31.3	MMS-HY-06	MMS-HY-06067

* suitable for Faster - Parker - Aéroquip - Gromelle - Stucchi - Snap - Tema ...

ISO AV COUPLER CAPS



For male coupler	For female coupler	Size	Ø mm	REF male	REF fem.
QRVM 04 CAP	QRVF 04 CAP	1/4"	16.2	MMS-HY-06	MMS-HY-06069
QRVM 06 CAP	QRVF 06 CAP	3/8"	21.5	MMS-HY-06	MMS-HY-06071
QRVM 12 CAP	QRVF 12 CAP	3/4"	31	MMS-HY-06	MMS-HY-06073
QRVM 16 CAP	QRVF 16 CAP	1"	34.5	MMS-HY-06	MMS-HY-06075

O-RING + BACK-UP RING



Type	Size	Ø mm	REF
QRFVO 06	3/8"	19	MMS-HY-06076
QRFVO 12	3/4"	27.9	MMS-HY-06077
QRFVO 16	1"	31.3	MMS-HY-06078

FLAT FACE - FEMALE THREAD



Male version	Female version	Size	A Thread	B mm	D mm	Bar	REF male	REF fem.
QRFM 04-02 NFF	QRFF 04-02 NFF	1/4"	1/8 NPT	12.7	27	200	MMS-HY-060	MMS-HY-06080
QRFM 04-04 NFF	QRFF 04-04 NFF	1/4"	1/4 NPT	12.7	27	200		MMS-HY-06081
QRFM 04-04 BFF	QRFF 04-04 BFF	1/4"	1/4 BSP	16.2	27	200	MMS-HY-06	MMS-HY-06083
QRFM 06-06 BFF	QRFF 06-06 BFF	3/8"	3/8 BSP	19.8	30	250	MMS-HY-060	MMS-HY-06085
QRFM 06-7/8 UFF	QRFF 06-7/8 UFF	3/8"	7/8 UNF	19.8	30	350	MMS-HY-06	MMS-HY-06087
QRFM 06-08 BFF	QRFF 06-08 BFF	3/8"	1/2 BSP	19.8	30	250	MMS-HY-060	MMS-HY-06089
QRFM 06-16 MFF	QRFF 06-16 MFF	3/8"	M16 x 1.5	19.8	30	350	MMS-HY-06	MMS-HY-06091
QRFM 08-08 BFF	QRFF 08-08 BFF	1/2"	1/2 BSP	24.5	38	250	MMS-HY-06	MMS-HY-06093
QRFM 08-12 BFF	QRFF 08-12 BFF	1/2"	3/4 BSP	24.5	38	250	MMS-HY-06	MMS-HY-06095
QRFM 08-3/4 UFF	QRFF 08-3/4 UFF	1/2"	3/4 UNF	24.5	38	350	MMS-HY-06	MMS-HY-06097
QRFM 08-7/8 UFF	QRFF 08-7/8 UFF	1/2"	7/8 UNF	24.5	38	350	MMS-HY-060	MMS-HY-06099
QRFM 08-1 1/16 UFF	QRFF 08-1 1/16 UFF	1/2"	1 1/16 UNF	24.5	38	350	MMS-HY-06	MMS-HY-06101
QRFM 12-12 BFF	QRFF 12-12 BFF	3/4"	3/4 BSP	30	48	200	MMS-HY-061	MMS-HY-06103
QRFM 12-16 BFF	QRFF 12-16 BFF	3/4"	1 BSP	30	48	200	MMS-HY-06	MMS-HY-06105
QRFM 16-20 BFF	QRFF 16-20 BFF	1"	1 1/4 BSP	36	55	250	MMS-HY-061	MMS-HY-06107

* suitable for Faster - Parker - Aéroquip - Gromelle - Stucchi - Snap - Tema ...

QUICK COUPLINGS

PLUGS FOR MALE FLAT-FACE COUPLERS



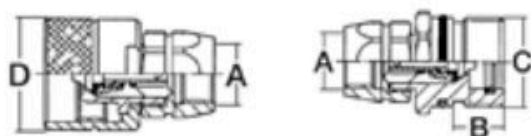
Size	Ø mm	REF
1/4"	16.2	MMS-HY-06108
3/8"	19.8	MMS-HY-06109
1/2"	24.5	MMS-HY-06110
3/4"	30	MMS-HY-06111
1"	36	MMS-HY-06112

PLUGS FOR FEMALE FLAT-FACE COUPLERS



Size	Ø mm	REF
1/4"	27	MMS-HY-06113
3/8"	30	MMS-HY-06114
1/2"	38	MMS-HY-06115
3/4"	48	MMS-HY-06116
1"	55	MMS-HY-06117

SCREW-IN QUICK-CONNECT COUPLERS - FEMALE GAS THREAD



Male version	Female version	Size	A BSP	Bar	D mm	REF male	REF fem.
QRSM 06-04 BFF	QRSF 06-04 BFF	3/8"	1/4 BSP	450	34	MMS-HY-06108	MMS-HY-06119
QRSM 06-06 BFF	QRSF 06-06 BFF	3/8"	3/8 BSP	450	34	MMS-HY-06109	MMS-HY-06121
QRSM 08-18 MFF	QRSF 08-18 MFF	1/2"	M18 x 1.5	400	42	MMS-HY-06110	MMS-HY-06123
QRSM 08-06 BFF	QRSF 08-06 BFF	1/2"	3/8 BSP	400	42	MMS-HY-06111	MMS-HY-06125
QRSM 08-08 BFF	QRSF 08-08 BFF	1/2"	1/2 BSP	400	42	MMS-HY-06112	MMS-HY-06127
QRSM 08-22 MFF	QRSF 08-22 MFF	1/2"	M22 x 1.5	400	42	MMS-HY-06113	MMS-HY-06129
QRSM 12-12 BFF	QRSF 12-12 BFF	3/4"	3/4 BSP	300	48	MMS-HY-06114	MMS-HY-06131
QRSM 12-22 MFF	QRSF 12-22 MFF	3/4"	M22 x 1.5	300	48	MMS-HY-06115	MMS-HY-06133
QRSM 16-30 MFF	QRSF 16-30 MFF	1"	M30 x 2.0	300	55	MMS-HY-06116	MMS-HY-06135
QRSM 16-12 BFF	QRSF 16-12 BFF	1"	3/4 BSP	300	55	MMS-HY-06117	MMS-HY-06137
QRSM 16-16 BFF	QRSF 16-16 BFF	1"	1 BSP	300	55	MMS-HY-06118	MMS-HY-06139

* suitable for Faster - Parker - Aéroquip - Gromellle - Stucchi - Snap - Tema ...

SCREW-IN QUICK-CONNECT COUPLERS - METRIC TUBE



Male version	Female version	Size	A	Bar	E mm	REF male	REF fem.
QRSM 06-14 ME08	QRSF 06-14 ME08	3/8"	M14 x 1.5	450	34	MMS-HY-06	MMS-HY-06141
QRSM 06-16 ME08	QRSF 06-16 ME08	3/8"	M16 x 1.5	450	34	MMS-HY-06	MMS-HY-06143
QRSM 06-16 ME10	QRSF 06-16 ME10	3/8"	M16 x 1.5	450	34	MMS-HY-061	MMS-HY-06145
QRSM 08-18 ME12	QRSF 08-18 ME12	1/2"	M18 x 1.5	400	42	MMS-HY-06	MMS-HY-06147
QRSM 08-20 ME12	QRSF 08-20 ME12	1/2"	M20 x 1.5	300	42	MMS-HY-06	MMS-HY-06149
QRSM 08-22 ME15	QRSF 08-22 ME15	1/2"	M22 x 1.5	400	42	MMS-HY-061	MMS-HY-06151
QRSM 08-24 ME16	QRSF 08-24 ME16	1/2"	M24 x 1.5	400	42	MMS-HY-06	MMS-HY-06153
QRSM 12-24 ME16	QRSF 12-24 ME16	3/4"	M24 x 1.5	400	48	MMS-HY-061	MMS-HY-06155
QRSM 12-30 ME20	QRSF 12-30 ME20	3/4"	M30 x 2.0	400	48	MMS-HY-06	MMS-HY-06157
QRSM 16-26 ME18	QRSF 16-26 ME18	1"	M26 x 1.5	300	55	MMS-HY-061	MMS-HY-06159
QRSM 16-30 ME20	QRSF 16-30 ME20	1"	M30 x 2.0	300	55	MMS-HY-06	MMS-HY-06161
QRSM 16-36 ME25	QRSF 16-36 ME25	1"	M36 x 2.0	300	55	MMS-HY-061	MMS-HY-06163

* suitable for Faster - Parker - Aéroquip - Gromelle - Stucchi - Snap - Tema ...

SCREW-IN QUICK-CONNECT COUPLERS - BULKHEAD METRIC TUBE



Male version	Female version	Size	A	Bar	E mm	REF male	REF fem.
QRSM 06-16 ME08-BL	QRSF 06-16 ME08-BL	3/8"	M16 x 1.5	450	34	MMS-HY-06	MMS-HY-06165
QRSM 08-18 ME12-BL	QRSF 08-18 ME12-BL	1/2"	M18 x 1.5	400	42	MMS-HY-06	MMS-HY-06167
QRSM 08-20 ME12-BL	QRSF 08-20 ME12-BL	1/2"	M20 x 1.5	400	42	MMS-HY-061	MMS-HY-06169
QRSM 08-22 ME15-BL	QRSF 08-22 ME15-BL	1/2"	M22 x 1.5	400	42	MMS-HY-06	MMS-HY-06171
QRSM 08-24 ME16-BL	QRSF 08-24 ME16-BL	1/2"	M24 x 1.5	400	42	MMS-HY-06	MMS-HY-06173
QRSM 12-30 ME20-BL	QRSF 12-30 ME20-BL	3/4"	M30 x 2.0	400	48	MMS-HY-06	MMS-HY-06175
QRSM 16-26 ME18-BL	QRSF 16-26 ME18-BL	1"	M26 x 1.5	300	55	MMS-HY-06	MMS-HY-06177
QRSM 16-30 ME20-BL	QRSF 16-30 ME20-BL	1"	M30 x 2.0	300	55	MMS-HY-061	MMS-HY-06179
QRSM 16-36 ME25-BL	QRSF 16-36 ME25-BL	1"	M36 x 2.0	300	55	MMS-HY-06	MMS-HY-06181
QRSM 16-42 ME30-BL	QRSF 16-42 ME30-BL	1"	M42 x 1.5	300	55	MMS-HY-061	MMS-HY-06183

* suitable for Faster - Parker - Aéroquip - Gromelle - Stucchi - Snap - Tema ...

QUICK COUPLINGS

CAP FOR SCREW-IN COUPLERS



For Male version couplers	For Female version couplers	Size	Ø mm	REF male cap for female coupler	REF female cap for male coupler
QRSM 04 CAP	QRSF 04 CAP	1/4"	M24 x 2.0	MMS-HY-0618	MMS-HY-06185
QRSM 06 CAP	QRSF 06 CAP	3/8"	M28 x 2.0	MMS-HY-06186	MMS-HY-06187
QRSM 08 CAP	QRSF 08 CAP	1/2"	M36 x 2.0	MMS-HY-0618	MMS-HY-06189
QRSM 12 CAP	QRSF 12 CAP	3/4"	M42 x 2.0	MMS-HY-06190	MMS-HY-06191
QRSM 16 CAP	QRSF 16 CAP	1"	M48 x 2.0	MMS-HY-0619	MMS-HY-06193

O-RING + GUIDE RING + BACK-UP RING



Type	Size	REF
QRSFO 06	3/8"	MMS-HY-06194
QRSFO 08	1/2"	MMS-HY-06195
QRSFO 12	3/4"	MMS-HY-06196
QRSFO 16	1"	MMS-HY-06197

NOTES



08.
REELS

REEL WITH TWIN HOSE



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	275 mm	4 m	Double synflex 1/4"	MMS-HY-06198
LH**	275 mm	4 m	Double synflex 1/4"	MMS-HY-06199



- 2 REF MMS-HY-06200 RH reel (without hoses)*
 2 REF MMS-HY-06201 LH reel (without hoses)**
 3 REF MMS-HY-06202 Hose, end connection 7/16" JIC*/**
 3 REF MMS-HY-06203 Hose, end connection 9/16" JIC*/**
 4 REF MMS-HY-06204 Fitting*/** (2 required)
 5 REF MMS-HY-06205 Hose support*/**
 6 REF MMS-HY-06206 Mounting bracket: (not included in complete kit)
- REF MMS-HY-06207 Reel kit
 REF MMS-HY-06208 Spring assembly
- Max lifting height: 6 m (duplex mast), 5 m (triplex mast)
 - Max working pressure: 200 bar, fluid flow: 30 l/min
 - Hose reel supplied without inlet fittings, inside thread: 3/8" BSP
- * Kit included for RH, ** Kit included for LH

REEL WITH TWIN HOSE



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	325 mm	4.5 m	Double synflex 3/8"	MMS-HY-06209
LH**	325 mm	4.5 m	Double synflex 3/8"	MMS-HY-06210



- 2 REF MMS-HY-06211 RH reel (without hoses)*
 2 REF MMS-HY-06212 LH reel (without hoses)**
 3 REF MMS-HY-06213 Hose, end connection 9/16" JIC*/**
 4 REF MMS-HY-06214 Fitting*/** (2 required)
 5 REF MMS-HY-06215 Hose support*/**
 6 REF MMS-HY-06206 Mounting bracket: (not included in complete kit)
- REF MMS-HY-06207 Reel kit
 REF MMS-HY-06216 Spring assembly
- Max lifting height: 7 m (duplex mast), 6 m (triplex mast)
 - Max working pressure: 160 bar, fluid flow: 30 l/min
 - Hose reel supplied without inlet fittings, inside thread: 3/8" BSP
- * Kit included for RH, ** Kit included for LH

REEL WITH TWIN HOSE



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	325 mm	5 m	Double synflex 5/16"	MMS-HY-06224
LH**	325 mm	5 m	Double synflex 5/16"	MMS-HY-06225



- 2 REF MMS-HY-06211 RH reel (without hoses)*
 3 REF MMS-HY-06212 LH reel (without hoses)**
 4 REF MMS-HY-06226 Hose, end connection 9/16" JIC*/**
 5 REF MMS-HY-06214 Hose fitting*/** (2 required)
 6 REF MMS-HY-06215 Hose support*/**
 6 REF MMS-HY-06206 Mounting bracket: (not included in complete kit)

REF MMS-HY-06207 Seal kit
 REF MMS-HY-06216 Spring assembly

- Max lifting height: 7 m (duplex mast), 6 m (triplex mast)
- Max working pressure: 180 bar, fluid flow: 30 l/min
- Hose reel supplied without inlet fittings, inside thread: 3/8" BSP
- * Kit included for RH, ** Kit included for LH

REEL WITH TWIN HOSE



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	420 mm	6.7 m	Double synflex 3/8"	MMS-HY-06217
LH**	420 mm	6.7 m	Double synflex 3/8"	MMS-HY-06218



- 2 REF MMS-HY-06219 RH reel (without hoses)*
 3 REF MMS-HY-06220 LH reel (without hoses)**
 4 REF MMS-HY-06221 Hose, end connection 9/16" JIC*/**
 5 REF MMS-HY-06214 Hose fitting*/** (2 required)
 6 REF MMS-HY-06222 Hose support*/**
 6 REF MMS-HY-06206 Mounting bracket: (not included in complete kit)

REF MMS-HY-06223 Seal kit

- Max lifting height: 11.5 m (duplex mast), 9.5 m (triplex mast)
- Max working pressure: 180 bar, fluid flow: 30 l/min
- Hose reel supplied without inlet fittings, inside thread: 3/8" BSP
- * Kit included for RH, ** Kit included for LH

REEL WITH TWIN HOSE



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	420 mm	4.7 m	Double synflex 1/2"	MMS-HY-06227
LH**	420 mm	4.7 m	Double synflex 1/2"	MMS-HY-06228



- 2 REF MMS-HY-06229 Reel (without hoses)*
 3 REF MMS-HY-06230 Hose (without hoses)**
 4 REF MMS-HY-06231 Hose, end connection 3/4" JIC*/**
 5 REF MMS-HY-06232 Hose support*/** (2 required)
 6 REF MMS-HY-06233 Mounting bracket: (not included in complete kit)

REF MMS-HY-06234 Seal kit
 REF MMS-HY-06235 Spring assembly

- Max lifting height: 9 m (duplex mast), 7.5 m (triplex mast)
- Max working pressure: 180 bar, fluid flow: 40 l/min
- Hose reel supplied without inlet fittings, inside thread: 3/8" BSP
- * Kit included for RH, ** Kit included for LH

REEL WITH 2X TWIN HOSE



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	370 mm	4.5 m	Double synflex 3/8"	MMS-HY-06234
LH**	370 mm	4.5 m	Double synflex 3/8"	MMS-HY-06235



- 2 REF MMS-HY-06236 Reel (without hoses)*
 3 REF MMS-HY-06237 Hose (without hoses)**
 4 REF MMS-HY-06238 Hose (2 required), end connection 9/16" JIC*/**
 5 REF MMS-HY-06239 Hose support*/** (4 required)
 6 REF MMS-HY-06240 Mounting bracket

REF MMS-HY-06241 Seal kit
 REF MMS-HY-06242 Spring assembly

- Max lifting height: 9 m (duplex mast), 7.5 m (triplex mast)
- Max working pressure: 180 bar, fluid flow: 30 l/min
- Hose reel supplied without inlet fittings, inside thread: 3/8" BSP
- * Kit included for RH, ** Kit included for LH

CABLE HOSE REEL 2 PORT + CABLE



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH	370 mm	4.6 m	Double synflex 3/8" + cable conductors 1.5 mm	MMS-HY-06243
LH	370 mm	4.6 m	Double synflex 3/8" + cable conductors 1.5 mm	MMS-HY-06244



2 REF **MMS-HY-06246** Mounting bracket: (not included in complete kit)

- JIC fittings 9/16"
- Max lifting height: 9 m (duplex mast), 7.5 m (triplex mast)
- Max working pressure 180 bar, fluid flow 30 l/min
- Hose reel supplied without inlet fittings, inside thread 3/8 bsp

4 PORT HOSE REEL



Type	Reel diameter	Max hose length	Hose type	REF
Complete kit				
RH	325 mm	3.7 m	4 hoses synflex 1/4"	MMS-HY-06245
LH	325 mm	3.7 m	4 hoses synflex 1/4"	MMS-HY-06246



2 REF **MMS-HY-06240** Mounting bracket

- Max working pressure 300 bar, fluid flow 30 l/min
- Hose reel supplied without inlet fittings, inside thread 3/8 bsp

TECREEL REEL



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	318 mm	3.5 m	Double synflex 5/16"	MMS-HY-06247
LH**	318 mm	3.5 m	Double synflex 5/16"	MMS-HY-06248

- 2 REF MMS-HY-06249 Reel (without hoses)*
 2 REF MMS-HY-06250 Reel (without hoses)**
 3 REF MMS-HY-06251 Hose, end connection 9/16" JIC*/**
 4 REF MMS-HY-02360 Fitting*/** (3/8" BSP, 2 required)

* Kit included for RH, ** Kit included for LH

TECREEL REEL



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	380 mm	5.6 m	Double synflex 5/16"	MMS-HY-06252
LH**	380 mm	5.6 m	Double synflex 5/16"	MMS-HY-06253

- 2 REF MMS-HY-06254 Reel (without hoses)*
 2 REF MMS-HY-06255 Reel (without hoses)**
 3 REF MMS-HY-06256 Hose, end connection 9/16" JIC*/**
 4 REF MMS-HY-02360 Fitting*/** (3/8" BSP, 2 required)

* Kit included for RH, ** Kit included for LH

CASCADE REEL

Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	280 mm	3.91 m	Double synflex 1/4"	MMS-HY-06257
LH**	280 mm	3.91 m	Double synflex 1/4"	MMS-HY-06258

- 2 REF [MMS-HY-06259](#) Reel (without hoses)*
 2 REF [MMS-HY-06260](#) Reel (without hoses)**
 3 REF [MMS-HY-06261](#) Hose, end connection 7/16" JIC*/**
 4 REF [MMS-HY-03473](#) Fitting*/** (4 required)
 5 REF [MMS-HY-06262](#) Mounting bracket*/**

• Max lifting height: 6.3 m (duplex mast), 4.8 m (triplex mast)
 * Kit included for RH, ** Kit included for LH

CASCADE REEL

Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	330 mm	4.57 m	Double synflex 3/8"	MMS-HY-06263
LH**	330 mm	4.57 m	Double synflex 3/8"	MMS-HY-06264

- 2 REF [MMS-HY-06265](#) Reel (without hoses)*
 2 REF [MMS-HY-06266](#) Reel (without hoses)**
 3 REF [MMS-HY-06267](#) Hose, end connection 9/16" JIC*/**
 4 REF [MMS-HY-03481](#) Fitting*/** (4 required)
 5 REF [MMS-HY-06268](#) Mounting bracket*/**

• Max lifting height: 7.1 m (duplex mast), 5.5 m (triplex mast)
 * Kit included for RH, ** Kit included for LH

CASCADE REEL



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	410 mm	7.62 m	Double synflex 3/8"	MMS-HY-06275
LH**	410 mm	7.62 m	Double synflex 3/8"	MMS-HY-06276

- 2 REF MMS-HY-06277 RH reel (without hoses)*
 3 REF MMS-HY-06278 LH reel (without hoses)**
 4 REF MMS-HY-06279 Hose, end connection 9/16" JIC*/**
 5 REF MMS-HY-03481 Hose*/** (4 required)
 6 REF MMS-HY-06268 Mounting bracket*/**

• Max lifting height: 13 m (duplex mast), 9.81 m (triplex mast)
 * Kit included for RH, ** Kit included for LH

CASCADE REEL



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	410 mm	5.79 m	Double synflex 1/2"	MMS-HY-06269
LH**	410 mm	5.79 m	Double synflex 1/2"	MMS-HY-06270

- 2 REF MMS-HY-06271 RH reel (without hoses)*
 3 REF MMS-HY-06272 LH reel (without hoses)**
 4 REF MMS-HY-06273 Hose, end connection 3/4" JIC*/**
 5 REF MMS-HY-03485 Hose*/** (4 required)
 6 REF MMS-HY-06274 Mounting bracket*/**

• Max lifting height: 8.9 m (duplex mast), 7.4 m (triplex mast)
 * Kit included for RH, ** Kit included for LH

HOSE REEL BRACKET FOR CASCADE REELS

- Hose reel bracket left

REFMMS-HY-06280



- Hose reel bracket right

REFMMS-HY-06281

TECALEMIT REEL



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	280 mm	3.3 m	Double synflex 1/4"	MMS-HY-06282
RH**	280 mm	3 m	Double synflex 5/16"	MMS-HY-06283
LH***	280 mm	3.3 m	Double synflex 1/4"	MMS-HY-06284
LH****	280 mm	3 m	Double synflex 5/16"	MMS-HY-06285

- 2 REF MMS-HY-06286 Reel (without hoses)**
 3 REF MMS-HY-06287 Reel (without hoses)****
 3 REF MMS-HY-06288 Hose, 3.3 m, end connection 1/4" JIC*/***
 3 REF MMS-HY-06289 Hose, 3 m, end connection 5/16" JIC**/****
 4 REF MMS-HY-06290 Fitting*/***/****/***** (2 required)
 4 REF MMS-HY-06291 Fitting**/***/****/***** (4 required)
 5 REF MMS-HY-06292 Swivel*/***/****/*****

*/** Kit included for RH, ***/**** Kit included for LH

TECALEMIT REEL



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	340 mm	6 m	Double synflex 1/4"	MMS-HY-06293
RH**	340 mm	5 m	Double synflex 5/16"	MMS-HY-06294
LH***	340 mm	6 m	Double synflex 1/4"	MMS-HY-06295
LH****	340 mm	5 m	Double synflex 5/16"	MMS-HY-06296

- 2 REF MMS-HY-06297 Reel (without hoses)**
 3 REF MMS-HY-06298 Reel (without hoses)****
 3 REF MMS-HY-06299 Hose, 6 m, end connection 1/4" JIC*/***
 3 REF MMS-HY-06300 Hose, 5 m, end connection 5/16" JIC**/****
 4 REF MMS-HY-06290 Fitting*/***/****/***** (2 required)
 4 REF MMS-HY-06291 Fitting**/***/****/***** (4 required)
 5 REF MMS-HY-06292 Swivel*/***/****/*****

*/** Kit included for RH, ***/**** Kit included for LH

TECALEMIT REEL



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	390 mm	7 m	Double synflex 1/4"	MMS-HY-06301
RH**	390 mm	6 m	Double synflex 5/16"	MMS-HY-06302
LH***	390 mm	7 m	Double synflex 1/4"	MMS-HY-06303
LH****	390 mm	6 m	Double synflex 5/16"	MMS-HY-06304

- 2 REF MMS-HY-06305 Reel (without hoses)**
 2 REF MMS-HY-06306 Reel (without hoses)****
 3 REF MMS-HY-06307 Hose, 7 m, end connection 1/4" JIC*/***
 3 REF MMS-HY-06308 Hose, 6 m, end connection 5/16" JIC*/****
 4 REF MMS-HY-06290 Fitting*/****/***** (2 required)
 4 REF MMS-HY-06291 Fitting*/****/***** (4 required)
 5 REF MMS-HY-06292 Wave*/****/*****

*/** Kit included for RH, ***/**** Kit included for LH

REELS USED FOR MEYER

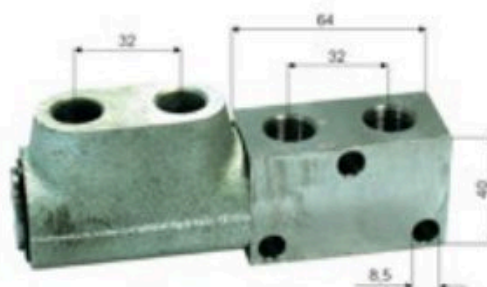


Type	Reel diameter mm	Max hose length mm	Hose type	End fittings	Hose reel inside thread	With hoses	REF
RH	280	3000	Double synflex 5/16"	M14	3/8" BSP	Yes	MMS-HY-06309
RH	280	3000	Double synflex 5/16"	9/16" JIC	3/8" BSP	Yes	MMS-HY-06310
LH	280	3000	Double synflex 5/16"	M14	3/8" BSP	Yes	MMS-HY-06311
LH	280	3000	Double synflex 5/16"	9/16" JIC	3/8" BSP	Yes	MMS-HY-06312
RH	340	5000	Double synflex 5/16"	M14	3/8" BSP	Yes	MMS-HY-06313
RH	340	5000	Double synflex 5/16"	9/16" JIC	3/8" BSP	Yes	MMS-HY-06314
LH	340	5000	Double synflex 5/16"	M14	3/8" BSP	Yes	MMS-HY-06315
LH	340	5000	Double synflex 5/16"	9/16" JIC	3/8" BSP	Yes	MMS-HY-06316
RH	390	6000	Double synflex 5/16"	M14	3/8" BSP	Yes	MMS-HY-06317
RH	390	6000	Double synflex 5/16"	9/16" JIC	3/8" BSP	Yes	MMS-HY-06318
LH	390	6000	Double synflex 5/16"	M14	3/8" BSP	Yes	MMS-HY-06319
LH	390	6000	Double synflex 5/16"	9/16" JIC	3/8" BSP	Yes	MMS-HY-06320
Seal kit for all 'Meyer' types							MMS-HY-06321

SWIVELS

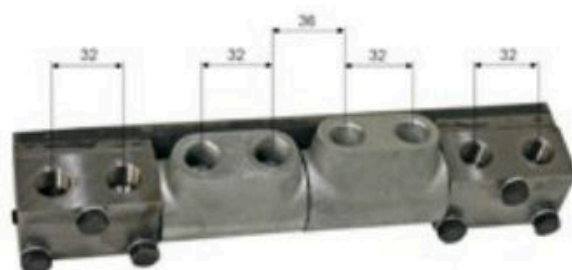


	REF 9/16" Jic	REF 3/4" Jic
Complete kit	MMS-HY-06322	MMS-HY-06323
Swivel	MMS-HY-06324	MMS-HY-06325
Fitting	MMS-HY-03295	MMS-HY-03296
Bracket	MMS-HY-06326	MMS-HY-06327



- Bolt on swivel - length 136 mm
- Inlet thread: 3/8" BSP
- Outlet thread: 3/8" BSP
- 3 mounting holes 8.5 mm

REF MMS-HY-06328



With fittings:

- Bolt on swivel - length 264 mm
- Inlet thread: 3/8" BSP
- Outlet thread: 3/8" BSP
- 6 mounting holes 8.5 mm
- Rotating angle 180°

REF MMS-HY-06329 (without fittings)

- With 8 fittings 9/16" JIC

REF MMS-HY-06330

JUNCTION BLOCKS FOR HOSE REELS



- Type: 1JC
- Inside thread: 9/16 UNF
- Connection of the hose: 1 hose left- and 1 hose right-hand

REF MMS-HY-06333



- Type: R
- Inside thread: 3/4 UNF
- Connection of the hose: 2 hoses right-hand

REF MMS-HY-06334



- Type: C
- Inside thread: 3/4 UNF
- Connection of the hose: 1 hose left- and 1 hose right-hand

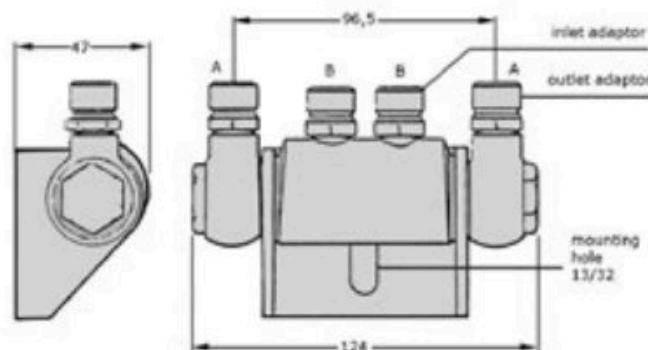
REF MMS-HY-06331



- Type: L
- Inside thread: 3/4 UNF
- Connection of the hose: 2 hoses left-hand

REF MMS-HY-06332

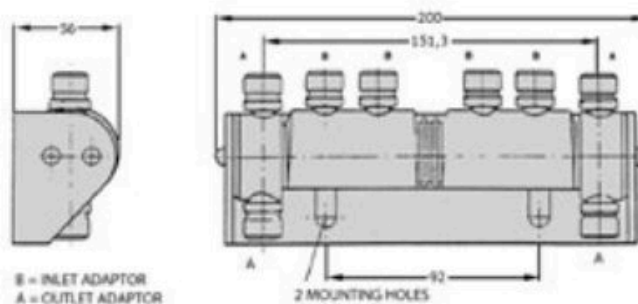
SWIVEL JOINT FOR 2 HOSES



- Pressure range up to 300 bar
- 180° rotatable
- Seal kit: REF **MMS-HY-06335**

Outlet adaptor	Inlet Adaptor	REF without check valve
-	-	MMS-HY-06336
1/4" BSP	1/4" BSP	MMS-HY-06337
3/8" BSP	3/8" BSP	MMS-HY-06338
9/16" JIC	9/16" JIC	MMS-HY-06339
3/4" 16 UNF	3/4" 16 UNF	MMS-HY-06340
M16x1.5 (10L)	M16x1.5 (10L)	MMS-HY-06341
3/8" BSP	1/4" BSP	MMS-HY-06342
3/8" BSP	9/16" JIC	MMS-HY-06343
1/4" BSP	9/16" JIC	MMS-HY-06344
9/16" JIC	3/8" BSP	MMS-HY-06345
9/16" JIC	1/4" BSP	MMS-HY-06346
9/16" JIC	-	MMS-HY-06347
M18x1.5 (10S)	3/8" BSP	MMS-HY-06348
M16x1.5 (60°)	M16x1.5 (60°)	MMS-HY-06349

SWIVEL JOINT FOR 4 HOSES



- Pressure range up to 210 bar
- 180° rotatable

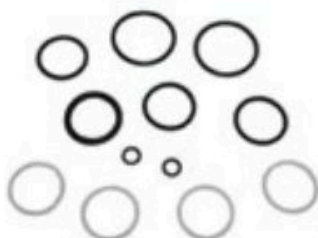
Outlet adaptor	Inlet Adaptor	REF without check valve
-	-	MMS-HY-06350
3/8" BSP	3/8" BSP	MMS-HY-06351
1/4" BSP	1/4" BSP	MMS-HY-06352
9/16" JIC	9/16" JIC	MMS-HY-06353
1/4" BSP	9/16" JIC	MMS-HY-06354
3/4"-16 UNF	9/16" JIC	MMS-HY-06355

HOSE SUPPORT



Size	REF
1/4"	MMS-HY-06262
5/16"	MMS-HY-06215
3/8"	MMS-HY-06268
1/2"	MMS-HY-06274

HOSE REEL SPARE PARTS



Hose reel used for Cascade	REF seal kit	REF spring assembly
REF 672570	MMS-HY-0635	MMS-HY-06357
REF 672571	MMS-HY-0635	MMS-HY-06358
REF 672572	MMS-HY-0635	MMS-HY-06359
REF 672573	MMS-HY-0635	MMS-HY-06360
REF 672574	MMS-HY-0635	MMS-HY-06361
REF 672575	MMS-HY-0635	MMS-HY-06362
REF 672576	MMS-HY-0635	MMS-HY-06363
REF 672577	MMS-HY-0635	MMS-HY-06364

HOSE REEL SPARE PARTS

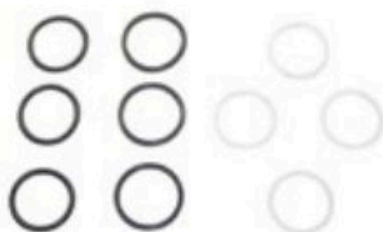


Hose reel used for Tecalemit	REF seal kit	REF spring assembly
REF 13552014	MMS-HY-0636	MMS-HY-06366
REF 13551014	MMS-HY-0636	MMS-HY-06366
REF 13556014	MMS-HY-0636	MMS-HY-06366
REF 13555014	MMS-HY-0636	MMS-HY-06366
REF 13554014	MMS-HY-0636	MMS-HY-06366
REF 13553014	MMS-HY-0636	MMS-HY-06366

HOSE REEL SPARE PARTS



Hose reel used for Tecreel	REF seal kit	REF spring assembly
REF TR31800	MMS-HY-0636	MMS-HY-06368
REF TL31800	MMS-HY-0636	MMS-HY-06368
REF TR38000	MMS-HY-0636	MMS-HY-06368
REF TL38000	MMS-HY-0636	MMS-HY-06368

HOSE REEL SPARE PARTS

Hose reel used for Meyer	REF seal kit	REF spring assembly
REF 72101	MMS-HY-0636	MMS-HY-06370
REF 72102	MMS-HY-0636	MMS-HY-06370
REF 72103	MMS-HY-0636	MMS-HY-06370

SHEAVES

REFMMS-HY-06371



REFMMS-HY-06372



REFMMS-HY-06373

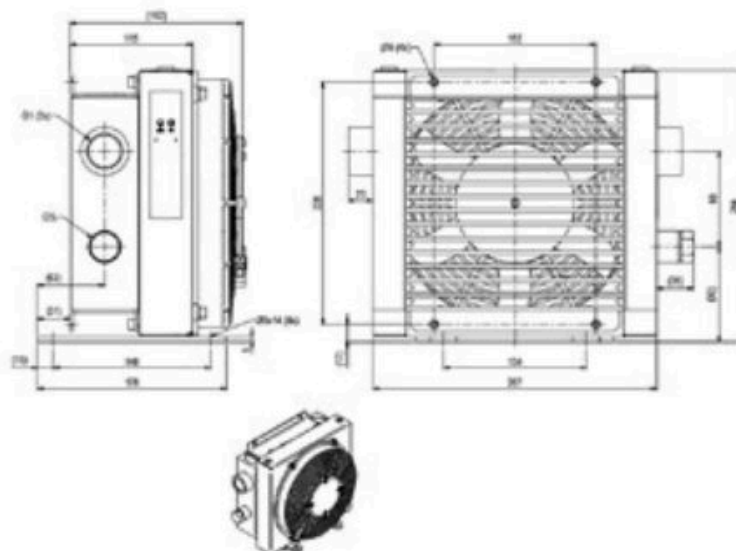
You can also use our technical sheet:





09. **ACCESSORIES**

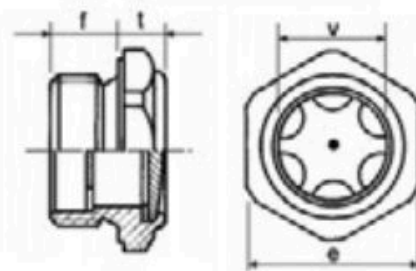
OILCOOLER



- 25 l/min to 120 l/min
- Inclusive thermocontact till 47° C
- Work pressure: 10 bar
- P max: 14 bar

Voltage 12 VDC: REF **MMS-HY-06374**
Voltage 24 VDC: REF **MMS-HY-06375**

VISUAL LEVEL INDICATOR



Thread	f mm	t mm	v mm	e mm	REF
1/4"	8	7	10	17	MMS-HY-06376
3/8"	10.5	7	13	22	MMS-HY-06377
1/2"	11	9	16	27	MMS-HY-06378
3/4"	12	9	21	32	MMS-HY-06379
1"	15.5	10	27	40	MMS-HY-06380
1 1/4"	15	10	37	50	MMS-HY-06381
1 1/2"	15	10	40	55	MMS-HY-06382
2"	17	14	50	70	MMS-HY-06383
M33 x 2	15.5	10	27	40	MMS-HY-06384

TANK FILLER CAP**Technical details:**

- Overall length: 149 mm
- Overall length tank: 50 mm
- Ø 84 mm overall
- Ø 40 mm strainer
- Axle center: 63 mm

REF [MMS-HY-06385](#)**TANK FILLER CAP AND BREATHER PLUG**

Thread	REF
1/4 BSP	MMS-HY-06386
3/8 BSP	MMS-HY-06387
1/2 BSP	MMS-HY-06388

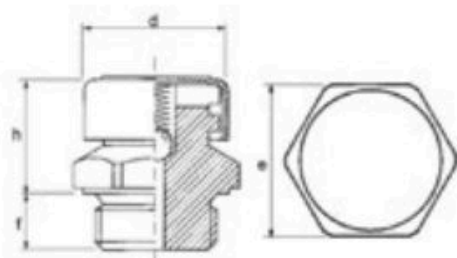
BREATHER PLUG**Technical details:**

- for MERLO
- 1/8 BSP

REF [MMS-HY-06389](#)

ACCESSORIES

BREATHER PLUG WITH VALVE

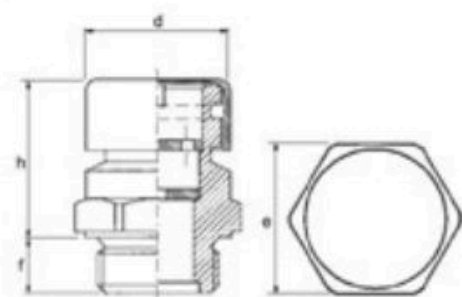


Technical information:

- Calibrated from 0.05 to 0.10 bar
- Galvanized-steel cover
- Aluminium alloy without treatment
- Internal valve with steel sphere and inox spring

Thread	d mm	h mm	f mm	e mm	REF
1/8"	13.8	16	8	14	MMS-HY-06398
1/4"	16.5	17	9.5	17	MMS-HY-06399
3/8"	21	19	11	22	MMS-HY-06400
1/2"	26	20	11	27	MMS-HY-06401
3/4"	30	24	12	32	MMS-HY-06402
1"	38	29	14	40	MMS-HY-06403

OIL FILLING PLUG AND BREATHER

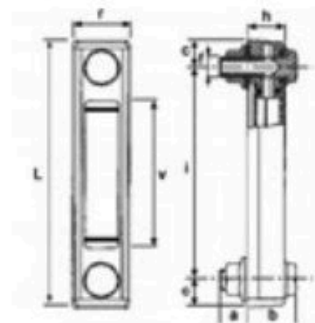


Technical information:

- Galvanized-steel cover
- Aluminium alloy without treatment with labyrinth

Thread	d mm	h mm	f mm	e mm	REF
1/4"	16.5	23	8	17	MMS-HY-06390
3/8"	22	29	9	22	MMS-HY-06391
1/2"	26	29	10	27	MMS-HY-06392
3/4"	30	35	12	32	MMS-HY-06393
1"	38	43	14	40	MMS-HY-06394
1 1/4"	50	45	15	50	MMS-HY-06395
1 1/2"	55	46	15	55	MMS-HY-06396
2"	70	46	17	70	MMS-HY-06397

VERTICAL LEVEL INDICATOR



L mm	r mm	v mm	c mm	i mm	f	h mm	a mm	b mm	REF
109	34	37	16.5	76	M10	21.5	11	29	MMS-HY-06404
109	34	37	16.5	76	M12	21.5	11	29	MMS-HY-06405
160	34	88	16.5	127	M10	21.5	16	29	MMS-HY-06406
160	34	88	16.5	127	M12	21.5	16	29	MMS-HY-06407



10.
**HYDRAULIC
INDICATORS &
TESTERS**

ANALOG PRESSURE GAUGES



PRESSURE GAUGES FOR OIL

- Connection 1/4" BSP
- Case: Ø 63
- Stainless steel
- Filled with glycerine

bar	PSI	REF
0 - 1	0 - 15	MMS-HY-06408
0 - 1.6	0 - 23	MMS-HY-06409
0 - 2.5	0 - 35	MMS-HY-06410
-1 - +3	-1 - +40	MMS-HY-06411
0 - 4	0 - 60	MMS-HY-06412
0 - 6	0 - 80	MMS-HY-06413
0 - 10	0 - 150	MMS-HY-06414
0 - 16	0 - 230	MMS-HY-06415
0 - 25	0 - 350	MMS-HY-06416
0 - 40	0 - 600	MMS-HY-06417
0 - 60	0 - 850	MMS-HY-06418
0 - 100	0 - 1500	MMS-HY-06419
0 - 160	0 - 2300	MMS-HY-06420
0 - 250	0 - 3600	MMS-HY-06421
0 - 400	0 - 5800	MMS-HY-06422
0 - 600	0 - 8450	MMS-HY-06423



PRESSURE GAUGES FOR OIL

- Connection 1/4" BSP
- Case: Ø 63
- Stainless steel
- Filled with glycerine
- Connection on the back side

bar	PSI	REF
-1 - +3	-1 - +40	MMS-HY-06424
0 - 6	0 - 80	MMS-HY-06425
0 - 10	0 - 150	MMS-HY-06426
0 - 16	0 - 230	MMS-HY-06427
0 - 25	0 - 350	MMS-HY-06428
0 - 40	0 - 600	MMS-HY-06429
0 - 60	0 - 850	MMS-HY-06430
0 - 100	0 - 1500	MMS-HY-06431
0 - 160	0 - 2300	MMS-HY-06432
0 - 250	0 - 3600	MMS-HY-06433
0 - 400	0 - 5800	MMS-HY-06434
0 - 600	0 - 8750	MMS-HY-06435

ANALOG PRESSURE GAUGES

MULTI-PRESSURE TESTER

Pressure testing devices for hydraulic, air and vacuum systems.

Technical information:

- Glycerine-filled gauge for a safe read-out
- Built-in valve protects device against high pressures
- Readings in PSI (pounds/inch²) or bar (kgf/cm²)
- Dust and moisture resistant
- Compact, provided with a 90 cm flexible hose,
- 1/8" NPTF connection
- Compatible with most hydraulic fluids

REF **MMS-HY-06436**



ACCESSORIES FOR ANALOG PRESSURE GAUGES



PRESSURE GAUGE SUPPORT

to connect the pressure gauge to a wall

REF **MMS-HY-06437**



RUBBER PROTECTION

for ø 63 mm pressure gauges

REF **MMS-HY-06438**

HYDRAULIC INDICATORS & TESTERS

DIGITAL PRESSURE GAUGES



DIGITAL PRESSURE GAUGES

Digital pressure gauge with pressure peak display

- Digital measuring and displaying of pressures
- Accuracy typ. 0.5% FS (full scale)
- Capturing pressure peaks
- Easy operation, robust and reliable
- Battery life time cycle 1500 hrs

bar	PSI	REF
0 - 100	0 - 1500	MMS-HY-06439
0 - 400	0 - 5800	MMS-HY-06440
0 - 600	0 - 8750	MMS-HY-06441

DIGITAL PRESSURE GAUGE KITS



The kit is the ideal tool for every application in service, maintenance and repair of hydraulic systems.

Depending on the pressure ranges you can choose between 3 variants. This kit is delivered in a durable case.

The kit can be used for quick and reliable troubleshooting.

Kit contains:

- 1 digital manometer
- 1 test hose 1.5 m

bar	PSI	REF
Kit 0-100	0 - 1500	MMS-HY-06442
Kit 0-400	0 - 5800	MMS-HY-06443
Kit 0-600	0 - 8750	MMS-HY-06444

DIAGNOSTIC SERVICE KITS



BASIC PRESSURE MEASURING KIT

This kit contains the most basic components to diagnose the hydraulics. All this is included in a durable case.

Contents:

- 1 manometer 0 – 40 bar (0 – 600 PSI)
- 1 manometer 0 – 400 bar (0 – 6000 PSI)
- 1 test point: 1/8" BSP
- 1 test point: 1/4" BSP
- 1 test hose: 2 m
- 1 coupling: 1/4" BSP -> 3/8" BSP
- 1 coupling: 1/4" BSP -> M 18

REF **MMS-HY-06445**



GENERAL PRESSURE MEASURING KIT

This diagnostic service case has all the general components to diagnose the hydraulics on your machine. All these items are included in a durable case.

Contents:

- 1 Digital manometer 0 – 600 bar
- 1 Test hose 1.5 m
- 11 Testcouplings in metric, BSP and UNF thread

REF **MMS-HY-06446**



PRESSURE MEASURING KIT

This diagnostic service case has all the required components to diagnose the hydraulics on your machine. Used for general diagnostics on LINDE machines.

Contents:

- All these items are included in a very durable ABS case
- Test points in various dimensions: M8 – M10 – M12 – M14
- There are also test points with adaptors included to fit inside your machine
- Test hoses in different lengths: 1 hose with length 1.5 m and 2 hoses with length 1 m
- Hose caps in various dimensions to diagnose your piston pump
- Analog pressure gauges with different ranges: 1 pressure gauge with a 0–600 bar range and 2 pressure gauges with a 0–60 bar range

Other test points, test hoses and pressure gauges are available from stock. Please contact the sales department.

REF **MMS-HY-06447**

DIAGNOSTIC SERVICE KITS



UNIVERSAL ACCUMULATOR PRESSURE CONTROL KIT

This kit enables you to check or to change the pressure of a Hydraulic accumulator. Discharging the accumulator is also possible with this kit. Compatible with all hydraulic accumulator connections. All this comes in a durable, lightweight case.

Contents:

- Charging valve
- 1 Gauge 0 - 25 bar
- 1 Gauge 0 - 250 bar
- 5 Most used accumulator connections (3/4 BSP; M16 x 2; M28 x1.5; 5/8 UNF; 7/8 UNF)
- Adapters to connect French and German nitrogen bottles
- 2.5 m hose to connect the valve to bottle

REF **MMS-HY-06448**

HYDRAULIC FLOW INDICATORS



BASIC FLOW INDICATORS

These in-line flow indicators are designed for trouble shooting the hydraulics of the machine. They can be mounted in any orientation and are weather proof for outside use. Pressure up to 240 bar (3500 PSI) are acceptable. Operating temperatures may not exceed 110 °C (240 °F).

Ports	Flow range	REF
1/2" BSP	2 - 18 l/min (0.5 - 5 US gpm)	MMS-HY-06449
3/4" BSP	12 - 113 l/min (3 - 30 US gpm)	MMS-HY-06450



FLOW AND TEMPERATURE INDICATOR

This indicator can measure flow and temperature of your hydraulic system.

Technical specifications:

- Flow range: 10 to 200 l/min (0-50 US gpm)
- Pressures up to 280 bar (4000 PSI)
- Temperature: up to 110 °C (230 °F)
- 1 1/2" BSP Port size
- Possibility to connect a pressure gauge with minimes

REF **MMS-HY-06451**



FLOW INDICATOR WITH LOADING VALVE TO 120 L/MIN

This indicator can measure flow, temperature and pressure of your hydraulic system in both directions.

Technical specifications:

- Flow range: 5 to 120 l/min (1.3 - 32 US gpm)
- Pressures up to 420 bar (6000 PSI)
- Temperature: up to 110 °C (230 °F)
- 1" BSP Port size

REF **MMS-HY-06452**

HYDRAULIC INDICATORS & TESTERS

HYDRAULIC FLOW INDICATORS



FLOW INDICATOR WITH LOADING VALVE TO 200 L/MIN

This indicator can measure flow, temperature and pressure of your hydraulic system in both directions.

Technical specifications:

- Flow range: 10 to 200 l/min (2.5 – 54 US gpm)
- Pressure: 0 - 420 bar (6000 PSI)
- Temperature: up to 110 °C (230 °F)
- 1" BSP Port size

REF **MMS-HY-06453**



DIGITAL HYDRAULIC TESTER

This hydraulic tester shows the flow and temperature digitally with the push of a button.

The pressure is shown analogue. It comes with a built-in loading valve, which enables you to test the system. The tester can be used in both directions which simplifies the testing. The device is robust, portable and lightweight.

All these items are included in a very durable steel case.

Technical specifications:

- Flow range: 10 – 400 lpm (2.5 – 100 US gpm)
- Pressure: 0 - 420 bar (6000 PSI)
- Temperature up to 120 °C (250 °F)
- 1" BSP Port size

Please contact the sales division if you are interested in a more heavy duty version.

REF **MMS-HY-06454**

MINIMESS SYSTEM**MINIMESS TEST COUPLINGS
M16 X 2 SYSTEM**

Dimensions	REF
M10 x 1	MMS-HY-06457
M12 x 1.5	MMS-HY-06458
M14 x 1.5	MMS-HY-06459
M16 x 1.5	MMS-HY-06460
1/8 BSP	MMS-HY-06461
1/4 BSP	MMS-HY-06462
3/8 BSP	MMS-HY-06463
7/16 UNF	MMS-HY-06464
9/16 UNF	MMS-HY-06465
3/8 UNF	MMS-HY-06466

DIRECT GAUGE ADAPTER

REF MMS-HY-06470

TESTHOSE**HYDRAULIC TEST HOSE M16 X 2 SYSTEM MAX P (630 BAR)**

Other lengths and connectors also available.
Please contact your sales advisor.

Dimensions	Length	REF
M16 x 2 - M16 x 2	1 m	MMS-HY-06467
M16 x 2 - M16 x 2	1.5 m	MMS-HY-06468
M16 x 2 - M16 x 2	2 m	MMS-HY-06469

**TESTHOSE COUPLER**

Max P 630 bar

Technical specifications:
2 times M16 x 2

REF MMS-HY-06455

**PRESSURE GAUGE TO TEST HOSE COUPLING**

Max P 630 bar

Technical specifications:
• Manometer side: 1/4" BSP
• Test hose side: M16 x 2

REF MMS-HY-06456

HYDRAULIC INDICATORS & TESTERS

PLUG IN SYSTEM



Dimensions	REF
M8	MMS-HY-06471
M10	MMS-HY-06472

CONVERTOR ADAPTOR



M16 x 2 <-> Plug in system

REF MMS-HY-06473

NOTES



11.

HYDRAULIC SEALS

HYDRAULIC SEALS

HOW TO INSTALL A SEAL

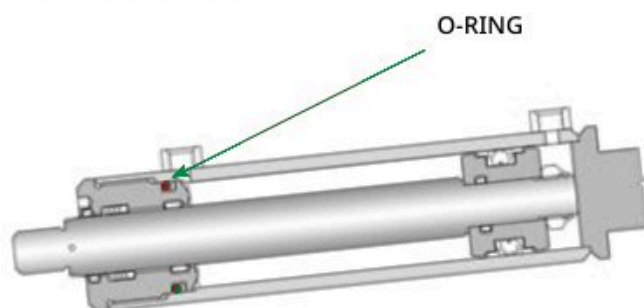
Need to install a seal? We have got you covered!

The installation can happen smoothly when following the right guidelines

General advice

1. All repairs with hydraulic components must be carried out in a dust- and moisture-free environment!
2. Make sure all the parts are clean, without any burrs or welding residue ...
3. Prevent any contact with sharp edges or threads during the installation. Drilling holes need to be chamfered.
4. Use the right installation tools, sleeves or mounting tubes (REF [MMS-HY-06474](#))
5. Lubricate every linear seal with the same (or compatible) fluid as the one you use in the hydraulic system. O-rings are an exception to the rule; these parts need to be installed without any lubrication.
6. Don't leave seals in a deformed position during assembly.
7. Install the seal in the correct orientation in regard to the direction of the fluid.

O-RING / QUAD RING



Fitting and removing

O-rings are not that easy to fit or to remove. They can be small or are located in hard-to-reach places. Additionally, they can get damaged when they are used or installed incorrectly. That is why it is essential to use the correct tools when working with O-rings. The O-ring pick set (REF [MMS-HY-06475](#)) is suitable for fitting and removing O-rings in all situations.

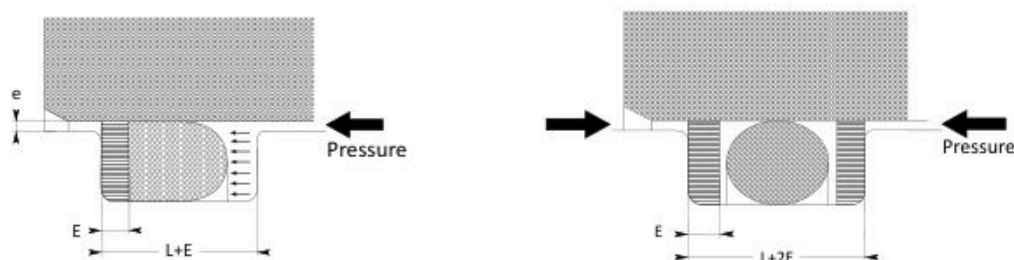


HOW TO INSTALL A SEAL

Installation steps

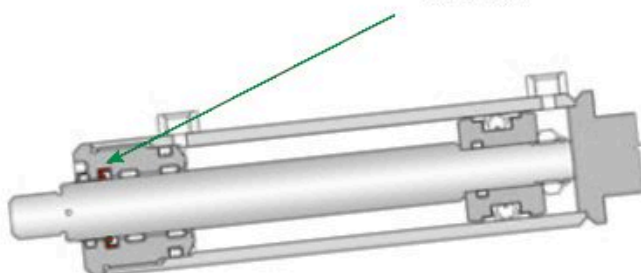
1. **Don't use a lubricant** for the initial installation. Ideally, the gland should grab the O-ring while you push the remaining part of the seal in its correct position.
2. Use an O-ring installation tool (REF [MMS-HY-06475](#)). Because many female glands are in very tight spaces, an O-ring installation tool can help secure the seal into place without damaging the seal.
3. If you need lubrication to assemble the fixture, it should be applied after the installation of the O-ring.
4. Make sure the male part of the fixture has an adequate lead-in chamfer, to avoid any mechanical damage to the seal.
5. Do not roll or twist the O-ring during mounting. This can cause spiralling or deformation and incorrect sealing.

Extrusion may appear when the gap between the sealing surface and the groove is too large. Part of the O-ring may be forced into this gap when the pressure exceeds the deformation limit of the O-ring. Install a back-up ring on the low pressure side of the O-ring to prevent extrusion. In double acting applications a back-up ring is installed on both sides of the O-ring.



LIP SEAL / WIPER RING IN CLOSED GROOVE / XS-RING WHEN USED AS ROD SEAL

LIP SEAL



Fitting and removing

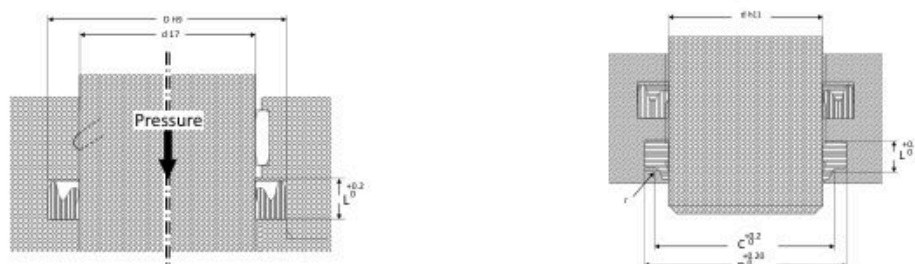
Use REF [MMS-HY-06476](#) on fingers. **In order to prevent damage to the seal, never use a screwdriver.**

Determining the size

A lot of the lip seals will mention their size on the seal itself. Keep in mind that the height mentioned on the seal can be either the actual height of the seal or the height of the housing.

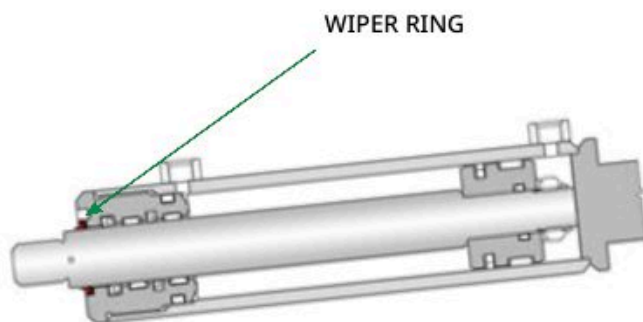
In the case there are no measurements on the seal, you should first check if the machine is in metric or in inches. Measure the dimensions of the housing to determine the correct size of the seal.

Correct orientation



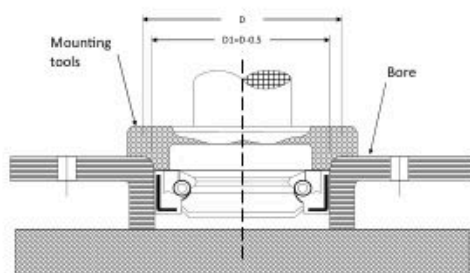
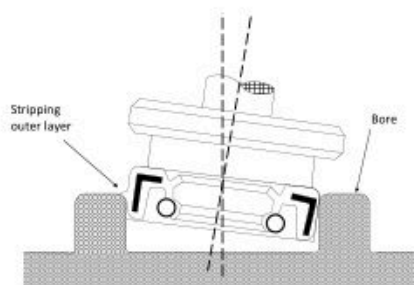
HOW TO INSTALL A SEAL

WIPER RING IN OPEN GROOVE

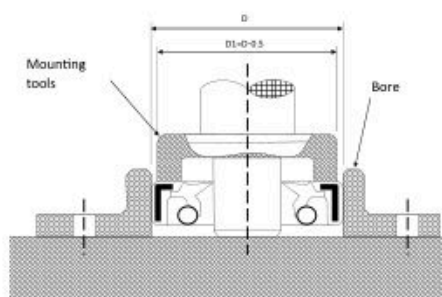
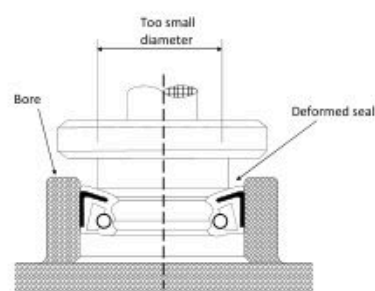
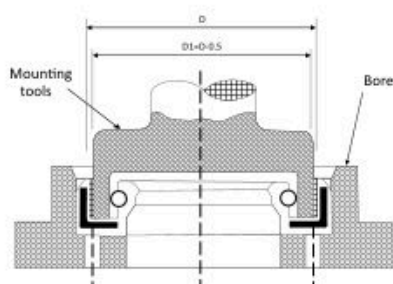
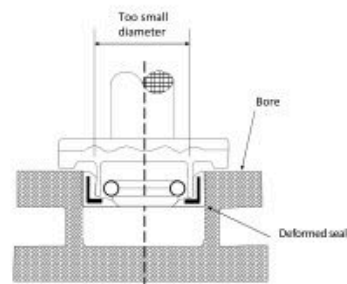


Installation of wipers with a steel case:

1. Check the chamfer of the housing
2. Push the metal caged wiper carefully in the groove with a press
3. Use a tool which cannot deform the wiper seal
4. Install the wiper seal evenly and aligned

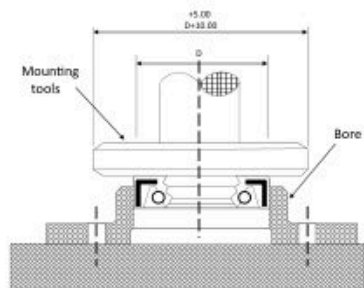
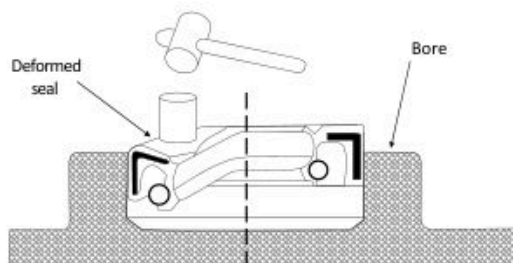


5. Do not use a tool with a diameter that is too small.

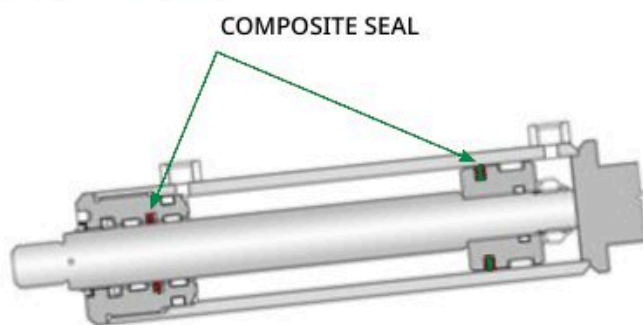


6. Never use force to insert the seal into the bore; use a rubber mallet carefully and evenly.

HOW TO INSTALL A SEAL



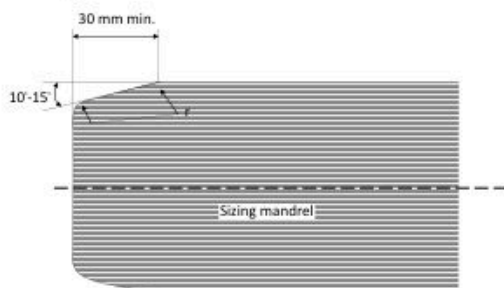
COMPOSITE SEAL



Fitting and removing

Installing a composite rod seal:

1. Install the O-ring as mentioned above.
2. Compress the PTFE ring into a bean shape similar as you would with a lip seal.
3. Place the compressed PTFE ring in the housing and push against the O-ring
4. Use a sizing mandrel with a long lead-in chamfer to recalibrate the PTFE ring



Installing a PTFE piston seal:

1. Install the O-ring as mentioned above.
2. Place the mounting straps (REF [MMS-HY-06477](#)) through the seal ring and hook one section of the ring on the piston.

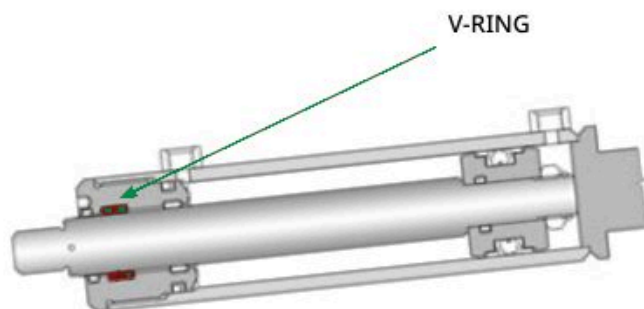


3. By using both straps, place the seal over the piston in the groove by slightly pulling at the straps and let them slide around the seal by swiveling movements.
4. Recalibrate the PTFE ring with a seal clasper (REF [MMS-HY-06478](#))



HOW TO INSTALL A SEAL

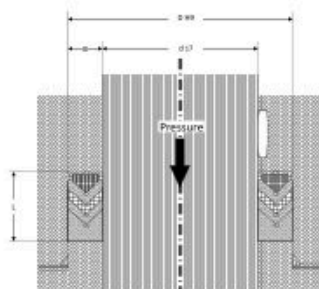
V-PAC



Fitting and removing

1. Softly knead the lips between thumb and forefinger over the entire circumference to facilitate the installation.
2. The spreader ring must have radial grooves for bringing pressure on all sections of the seal.
3. The different elements must be well lubricated before mounting and are fitted without twisting being twisted or turned.

Correct orientation



Troubleshooting / failure mode

Problem	Cause	Cause
Seal is twisted. Small pieces have been torn off where the seal passed over a hard edge.	Seals have been mounted incorrectly.	Follow the instructions as mentioned in this document.
Seal is worn on one side only. Piston rod cylinder tube is worn on the opposite side.	Damaged piston rod or rod bearings. Usually caused by poor alignment or a bent piston rod.	Realign or replace the piston rod.
Seal shows score marks.	Abrasive particles suspended in the fluid.	Introduce appropriate filtration methods.
Seal has crumbled or disintegrated.	Hydrolysis.	Install metal rod scrapers or rod bellows.
Seal appears to be nibbled?	Airborne contamination (dieseling).	Bleed out the hydraulic system.
Hard, cracked and brittle seals.	Extreme temperatures.	Change to a seal for the appropriate temperature. Check the hydraulic system if it's running at the right temperature.
Seals feel sticky or may appear dry and cracked. Seal may have shrunk or swollen.	Chemical attack (fluid incompatibility).	Ask your ^{EMS / MMS} representative for his recommendation for a particular fluid.

HOW TO INSTALL A SEAL

Seals may be worn uniformly around their inner sealing surface. Extrusion damage expelling chunks from the seal.

High pressure leaks (gap extrusion).

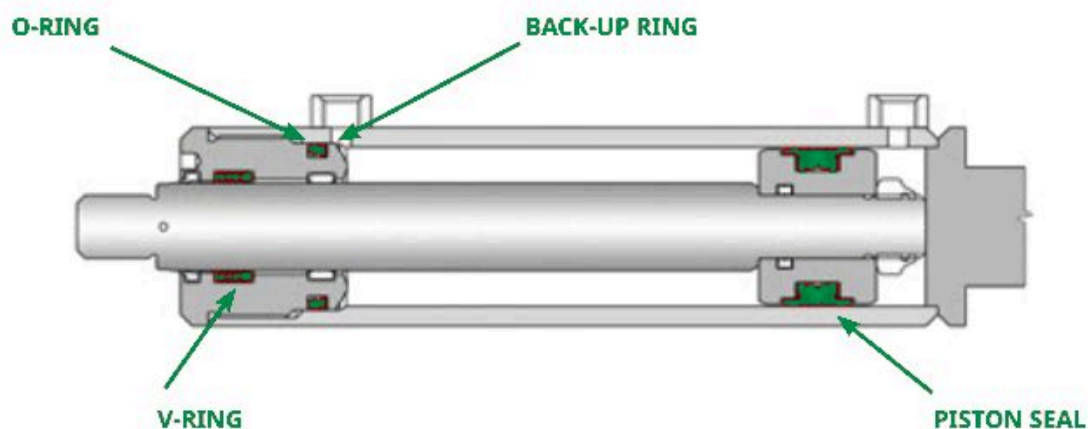
Check for flow restrictions. Install a back-up ring.

Wiper seal has extrusion damage but the lip seal is undamaged.

Low pressure leaks.

Substitute the lip seal for better low pressure sealing or raise the backpressure to 30 bar.

HYDRAULIC SEALS



O-RING



You can also use our technical sheet:



BACK-UP RING



You can also use our technical sheet:



V-RING



You can also use our technical sheet:

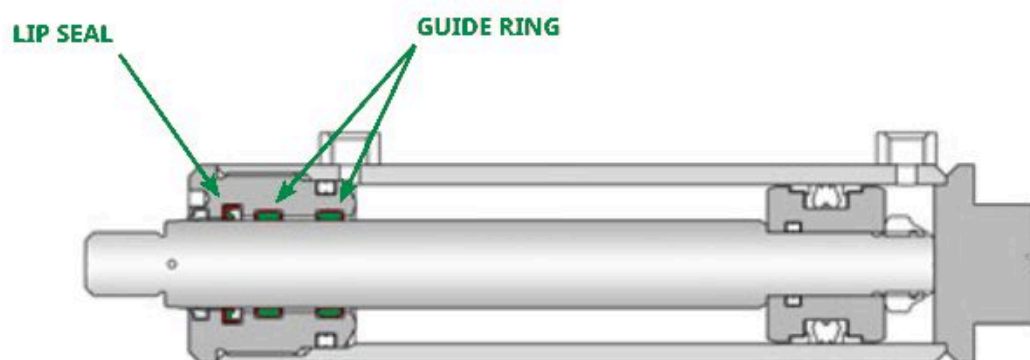


PISTON SEAL



You can also use our technical sheet:



HYDRAULIC SEALS**LIP SEAL**

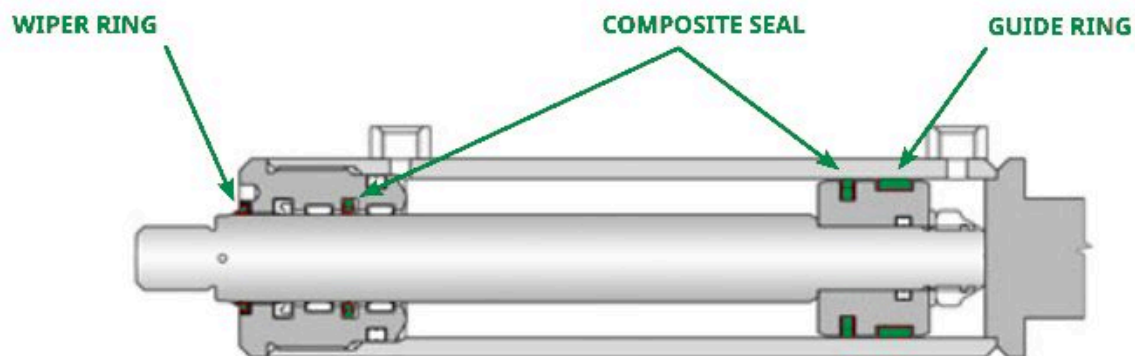
You can also use our technical sheet:

**GUIDE RING**

You can also use our technical sheet:



HYDRAULIC SEALS



WIPER RING



You can also use our technical sheet:



COMPOSITE SEAL



You can also use our technical sheet:

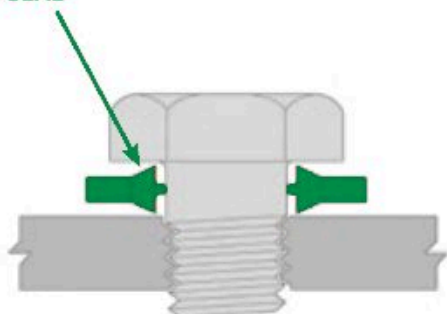
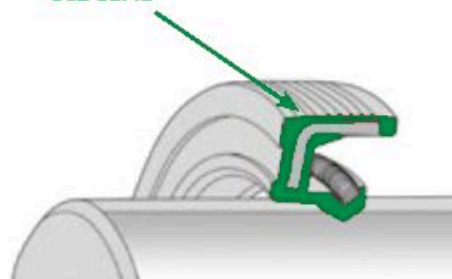


GUIDE RING



You can also use our technical sheet:



HYDRAULIC SEALS**BONDED SEAL****OIL SEAL****BONDED SEAL**

You can also use our technical sheet:

**OIL SEAL**

You can also use our technical sheet:

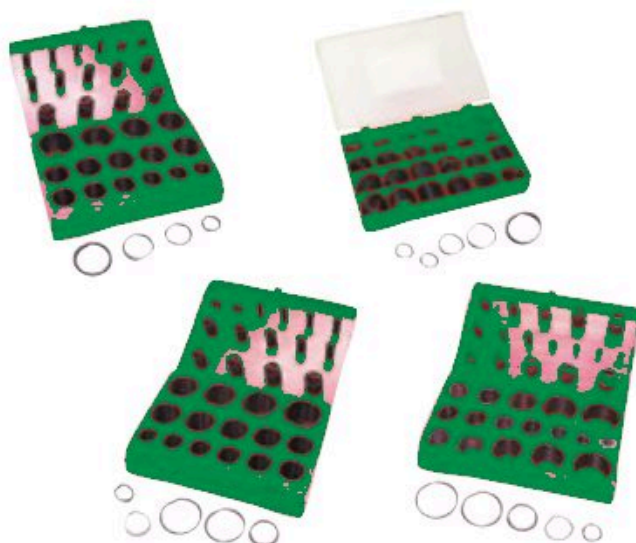


How to install a seal:



HYDRAULIC SEALS

STATIC SEALS



REFMMS-HY-06479

Dimensions	Qty	Dimensions	Qty	Dimensions	Qty
18.0 x 2	15	25.0 x 4	15	48.0 x 4	10
20.0 x 2	15	30.0 x 4	15	50.0 x 4	10
22.0 x 3	15	32.0 x 4	15	25.0 x 5	10
25.0 x 3	15	34.0 x 4	15	30.0 x 5	10
28.2 x 3	15	36.0 x 4	15	35.0 x 5	10
30.2 x 3	15	38.0 x 4	10	40.0 x 5	10
32.2 x 3	10	40.0 x 4	10	45.0 x 5	5
36.2 x 3	10	44.0 x 4	10	50.0 x 5	5

REFMMS-HY-06480

Dimensions	Qty	Dimensions	Qty	Dimensions	Qty
2.8 x 1.9	22	13.8 x 2.5	13	28 x 3.5	10
3.8 x 1.9	22	15.8 x 2.5	13	30 x 3.5	10
4.8 x 1.9	20	17.8 x 2.5	13	32 x 3.5	10
5.8 x 1.9	19	19 x 2.5	13	33 x 3.5	10
6.8 x 1.9	19	19 x 3.5	10	35 x 3.5	10
7.8 x 1.9	19	21 x 3.5	10	36 x 3.5	11
8.8 x 1.9	19	22 x 3.5	10	38 x 3.5	10
9.8 x 2.5	13	24 x 3.5	10	38 x 5.3	7
10.8 x 2.5	13	25 x 3.5	10	41 x 5.3	7
11.8 x 2.5	13	26 x 3.5	10	44 x 5.3	7

REFMMS-HY-06481

Dimensions	Qty	Dimensions	Qty	Dimensions	Qty
3.0 x 2	16	14.0 x 2.5	13	28.0 x 3	12
4.0 x 2	16	16.0 x 2.5	13	30.0 x 3	12
5.0 x 2	16	17.0 x 2.5	13	32.0 x 3	12
6.0 x 2	16	19.0 x 2.5	13	33.0 x 3	12
7.0 x 2	16	19.0 x 3	11	35.0 x 3	12
8.0 x 2	16	20.0 x 3	12	36.0 x 3	12
10.0 x 2	16	22.0 x 3	12	38.0 x 3	12
10.0 x 2.5	13	24.0 x 3	12	38.0 x 4	9
11.0 x 2.5	13	25.0 x 2.5	11	41.0 x 4	9
12.0 x 2.5	13	27.0 x 3	11	44.0 x 4	9

We also have boxes of O-rings and back-up rings available.
Please contact our sales department for dimensions and availability.

REFMMS-HY-06482

Dimensions	Qty	Dimensions	Qty	Dimensions	Qty
3.0 x 2	20	11.3 x 2.4	15	15.0 x 3	10
4.0 x 2	20	12.3 x 2.4	15	18.0 x 3	10
5.0 x 2	20	13.3 x 2.4	15	19.2 x 3	10
6.0 x 2	20	14.3 x 2.4	15	24.2 x 3	10
7.0 x 2	20	15.3 x 2.4	15	39.2 x 3	10
8.0 x 2	20	16.3 x 2.4	15	44.2 x 3	10
9.0 x 2	20	17.3 x 2.4	15	49.2 x 3	10
10.0 x 2	20	18.3 x 2.4	15	39.5 x 3.5	10
9.3 x 2.4	15	19.3 x 2.4	15	44.5 x 3.5	10
10.3 x 2.4	15	20.3 x 2.4	15	49.2 x 5.7	5

REFMMS-HY-06483

Dimensions	Qty	Dimensions	Qty	Dimensions	Qty
2.90 x 1.78	20	9.25 x 1.78	20	34.52 x 3.53	10
3.68 x 1.78	20	15.54 x 2.62	13	32.92 x 3.53	10
4.48 x 1.78	20	17.13 x 2.62	13	31.34 x 3.53	10
5.28 x 1.78	20	18.72 x 2.62	13	29.75 x 3.53	10
6.07 x 1.78	20	18.64 x 3.53	10	20.22 x 3.53	10
7.66 x 1.78	20	37.69 x 3.53	10	21.82 x 3.53	10
13.95 x 2.62	13	37.47 x 5.33	7	23.40 x 3.53	10
12.37 x 2.62	13	40.65 x 5.33	7	24.99 x 3.53	10
10.78 x 2.62	13	43.82 x 5.33	7	26.58 x 3.53	10
9.19 x 2.62	13	36.10 x 3.53	10	28.17 x 3.53	10

REFMMS-HY-06484

Dimensions	Qty	Dimensions	Qty	Dimensions	Qty
3.0 x 1.5	20	6.3 x 2.4	15	10.0 x 3	10
5.0 x 1.5	20	8.3 x 2.4	15	12.0 x 3	10
7.0 x 1.5	20	11.3 x 2.4	15	14.0 x 3	10
9.0 x 1.5	20	13.3 x 2.4	15	16.0 x 3	10
11.0 x 1.5	20	17.3 x 2.4	15	18.0 x 3	10
6.0 x 2	20	5.0 x 2.5	15	20.2 x 3	5
8.0 x 2	20	7.0 x 2.5	15	22.2 x 3	5
10.0 x 2	20	10.0 x 2.5	15	24.2 x 3	5
12.0 x 2	20	12.0 x 2.5	15	26.2 x 3	5
14.0 x 2	20	15.0 x 2.5	15	30.2 x 3	5

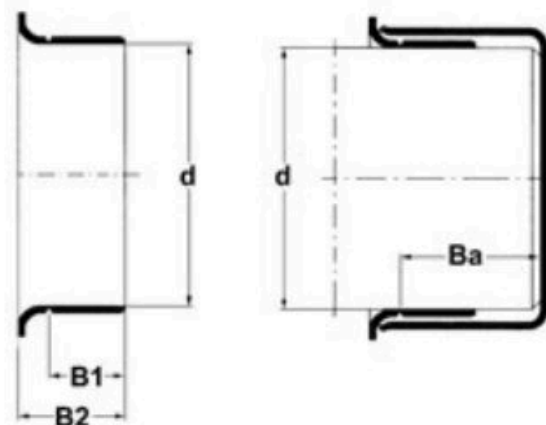
REFMMS-HY-06485

Dimensions	Qty	Dimensions	Qty	Dimensions	Qty
2.90 x 1.78	20	15.60 x 1.78	10	20.29 x 2.62	5
3.68 x 1.78	20	17.16 x 1.78	5	21.89 x 2.62	5
4.48 x 1.78	20	18.77 x 1.78	5	23.47 x 2.62	5
5.28 x 1.78	20	9.19 x 2.62	15	18.64 x 3.53	5
6.07 x 1.78	20	10.78 x 2.62	15	20.22 x 3.53	5
7.66 x 1.78	20	12.37 x 2.62	15	21.82 x 3.53	5
9.25 x 1.78	20	13.95 x 2.62	15	23.40 x 3.53	5
10.82 x 1.78	15	15.54 x 2.62	10	24.99 x 3.53	5
12.42 x 1.78	15	17.13 x 2.62	10	26.58 x 3.53	5
14.00 x 1.78	10	18.72 x 2.62	10	28.17 x 3.53	5

Also available in other variations of hardness. To order O-rings, please use prefix 401 and add the inner dimensions and the thickness of the O-ring.
For example: 401/045.00x03.00NBR80

All dimensions are in mm.

SPEEDI SLEEVE MEASUREMENT TABLE



Ø d mm	B1 mm	REF	Ø d mm	B1 mm	REF	Ø d mm	B1 mm	REF
20		MMS-HY-06486	48.56		MMS-HY-06510	82.55		MMS-HY-06534
22.23		MMS-HY-06487	49.23		MMS-HY-06511	82		MMS-HY-06535
25		MMS-HY-06488	50		MMS-HY-06512	84.07		MMS-HY-06536
25.4		MMS-HY-06489	50.8		MMS-HY-06513	88.9		MMS-HY-06537
27		MMS-HY-06490	52.4		MMS-HY-06514	90		MMS-HY-06538
28		MMS-HY-06491	53.98		MMS-HY-06515	91.97		MMS-HY-06539
28.58		MMS-HY-06492	55		MMS-HY-06516	92.08		MMS-HY-06540
30		MMS-HY-06493	55.58		MMS-HY-06517	95.25		MMS-HY-06541
31.8		MMS-HY-06494	57.15		MMS-HY-06518	95		MMS-HY-06542
32		MMS-HY-06495	60		MMS-HY-06519	100		MMS-HY-06543
33.35		MMS-HY-06496	60.33		MMS-HY-06520	101.6		MMS-HY-06544
34.01		MMS-HY-06497	61.93		MMS-HY-06521	107.95		MMS-HY-06545
34.93	12.7	MMS-HY-06498	63.5		MMS-HY-06522	109.93		MMS-HY-06546
34.93	13	MMS-HY-06499	65		MMS-HY-06523	111.13		MMS-HY-06547
36.6		MMS-HY-06500	66.68	12.7	MMS-HY-06524	114.3		MMS-HY-06548
38.1		MMS-HY-06501	66.68	19.8	MMS-HY-06525	120		MMS-HY-06549
40.08		MMS-HY-06502	69.85		MMS-HY-06526	120.65		MMS-HY-06550
41.28		MMS-HY-06503	70		MMS-HY-06527	127		MMS-HY-06551
41.9		MMS-HY-06504	73.03		MMS-HY-06528	133.35		MMS-HY-06552
44.45		MMS-HY-06505	75		MMS-HY-06529	152.4		MMS-HY-06553
45		MMS-HY-06506	76.2	20.6	MMS-HY-06530			
46.05		MMS-HY-06507	76.2	15.9	MMS-HY-06531			
47.63		MMS-HY-06508	79.38		MMS-HY-06532			
48.03		MMS-HY-06509	80		MMS-HY-06533			

Other dimensions available.





12. **HYDRAULIC CYLINDERS**

HYDRAULIC CYLINDERS



We offer a complete range of separate cylinder parts, i.e. cylinder tubes, piston shafts and rods, cylinder heads,...

We can repair all cylinders for mobile applications (except telescopic cylinders).

Please use our repair form:



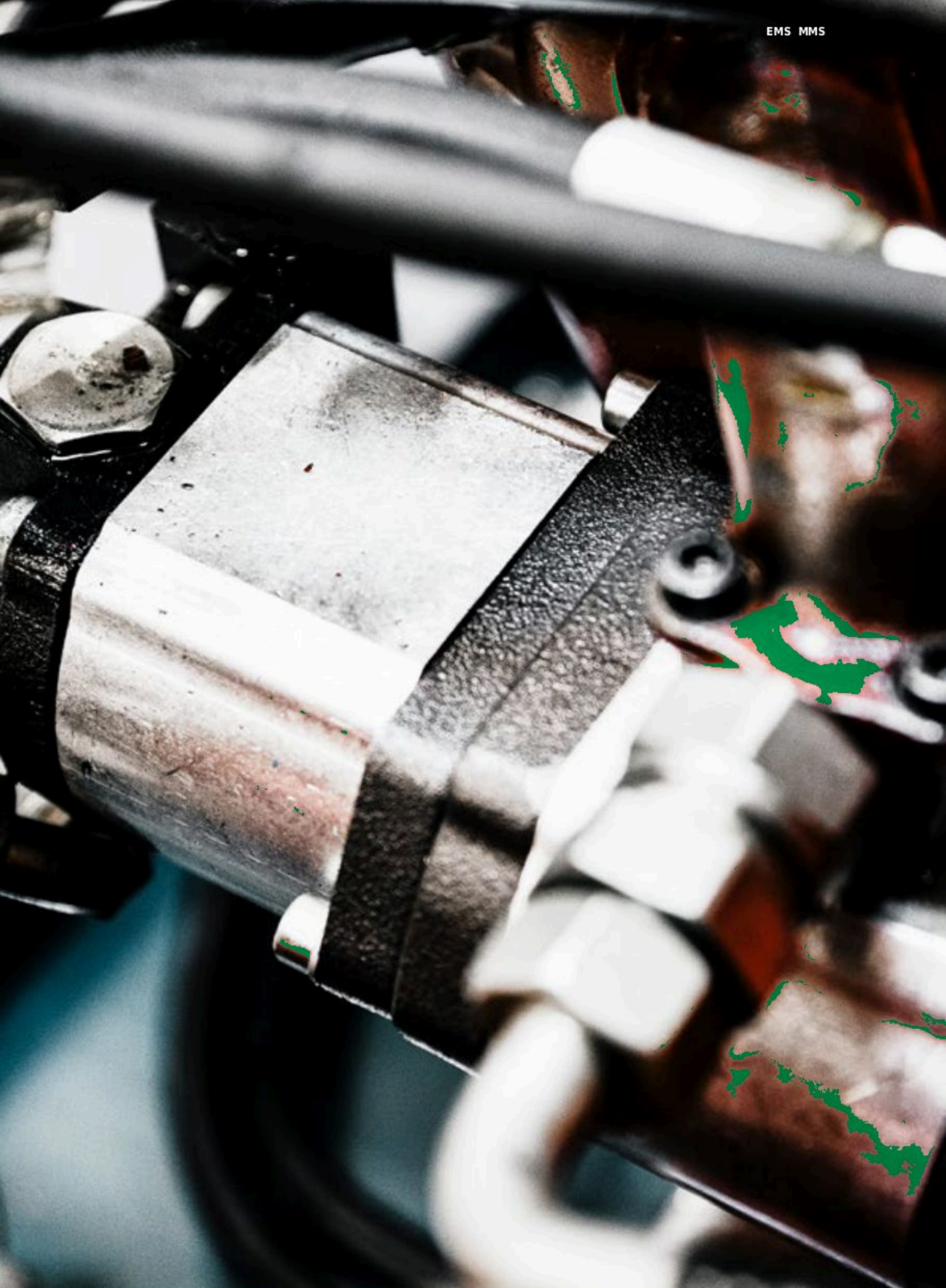
For more information, contact your sales advisor.

You can also fill in our technical sheet, this will help us to find the correct replacement part for your cylinder.



TEST BENCH FOR HYDRAULIC CYLINDERS

We test all our cylinder assemblies on our own cylinder test bench to guarantee our customers a perfect working cylinder.



A close-up photograph of a hydraulic pump component, showing a circular port with a white seal and various metal parts. The image is partially obscured by a large green diagonal shape.

13. **HYDRAULIC PUMPS**

HYDRAULIC PUMPS



EMS / MMS has a large stock of hydraulic pumps for all material handling makes and models.
We stock over 2000 different pumps.

We can offer you the brands below:

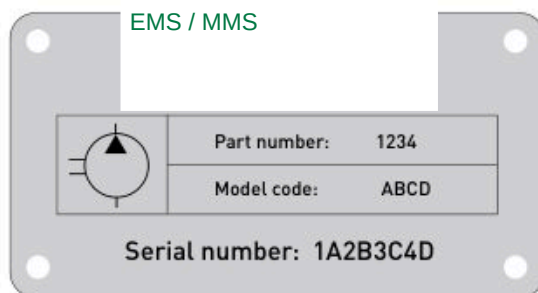
Bondioli & Pavesi, Bucher, Caproni, Casappa, Chapel, Concentric (Haldex - John S Barnes), Danfoss, Eaton hydraulics - Vickers, Eckerle, Galtech, HPI, Hydreco (David Brown), Kawasaki, KYB, Linde Hydraulics, Marzocchi, Nihon Spindle, Parker (Ultra - Dowty - Commercial - Denison), Rexroth, Roquet, Salami, Shimadzu, Turolla



HOW TO FIND THE CORRECT HYDRAULIC PUMP

To order a hydraulic pump give us the full details on the ID plate on the pump, engravings in the pump housing or by giving us the complete machine details.

Example



If you have an ID plate we need the following details in order to find the correct pump: Brand (example: EMS / MMS), Partnumber (example: 1234), Modelcode (example: ABCD). If you could send us a clear and readable picture of the ID plate on the pump, this will also enable us to find the correct pump for you. If you have a double pump in most cases the front pump (with shaft and mounting flange) will have the ID plate for the complete assy.

[CONTACT EMS / MMS](#)

[CONTACT EMS / MMS](#)

**If you don't have an account yet,
please click on the QR code below:**

[CONTACT EMS / MMS](#)

**You can also fill in our technical sheet,
this will help us to find the correct replacement part for your hydraulic pump.**

[CONTACT EMS / MMS](#)

[CONTACT EMS / MMS](#)

HYDRAULIC PUMPS

WARRANTY SHEET: HYDRAULIC PUMP

General guide lines for the replacement of a hydraulic pump:

- Hydraulic reservoir and connecting leads/tubes must be bled and cleaned
- Replace ALL hydraulic filters, check suction-lead for leaks and replace (if present) suction filter
- Only use oil recommended by the manufacturer
- Do not drive or force the coupling on the shaft
- Lubricate the shaft end before installation
- Use the right couplings and connections
- Fill up suction-lead completely
- Fill the pumps casing completely with oil
- Always check the direction of rotation of the pump before fitting it in the machine
- **Before starting** the engine, always make sure that the **pressure relief** valve is brought to a **zero level** and run the system at zero pressure for a few minutes, **before** gradually **increasing** the **pressure** to the manufacturers recommended level

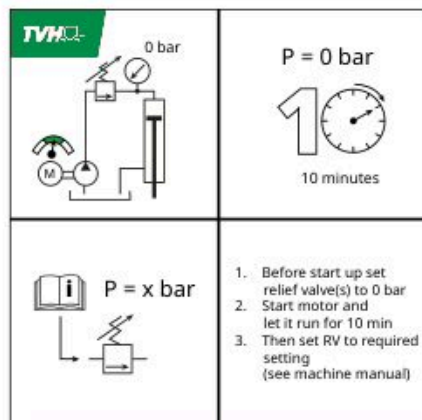


BEFORE MOUNTING:
fill all ports with enough oil ISO 46

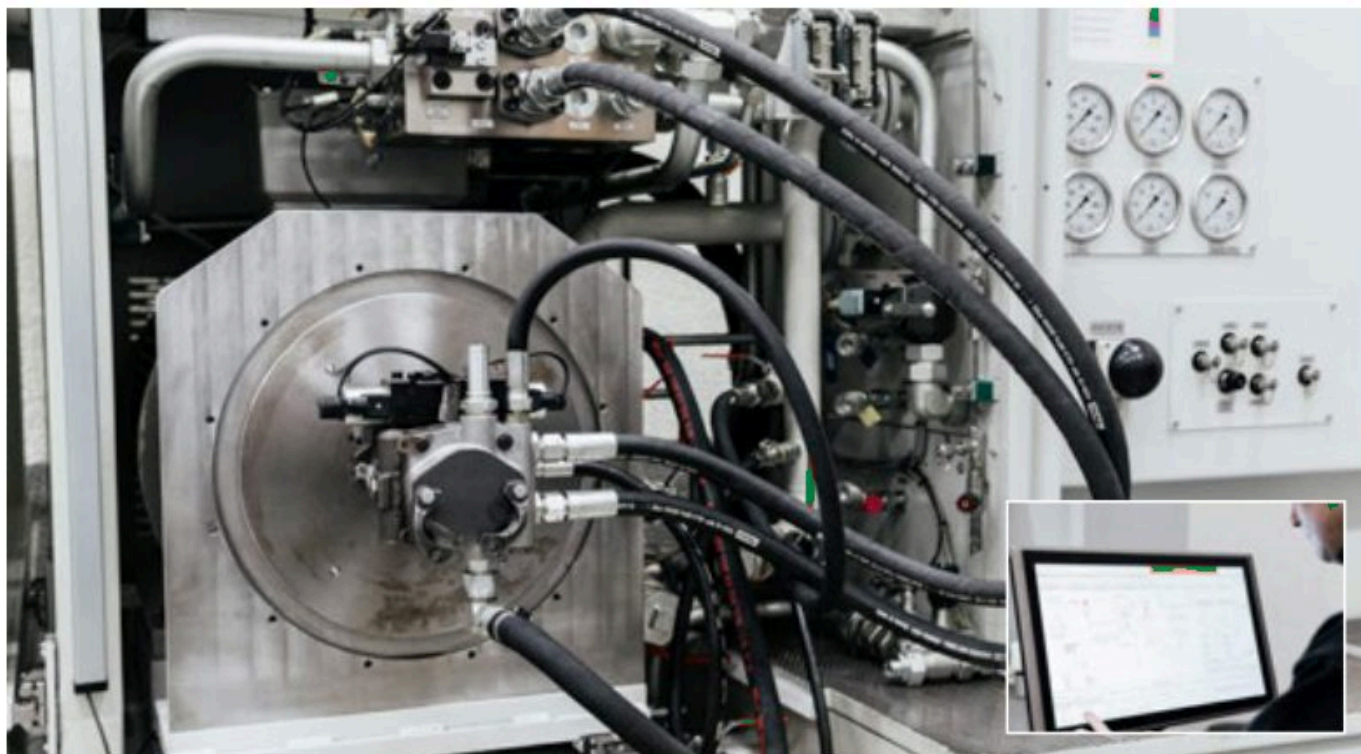
Please see "link /QR code" for a video on how to correctly install a hydraulic pump, EMS / MMS



START UP PROCEDURE HYDRAULIC PUMP



PUMP TEST BENCH FOR HYDRAULIC GEAR PUMPS & HYDRAULIC PISTON PUMPS



Quality is an important factor for the profitability of your company. In order to guarantee quality, we do not want to make any concessions. That is why we continue to innovate, for example with the hydraulic inspection on our hydraulic test benches. We use this to test the efficiency of your hydrostatic and powershift transmissions, hydraulic pumps, engines, valves and cylinders.

Components are tested with a maximum load. Only in this way can we guarantee the quality of repairs. An advantage is that components are tested separately and that your complete machine is not used as a test bench. This saves a lot of time. Ultimately, you want to prevent your machine from being idle for too long. So that's our priority too.

Our electric-powered pump test bench is capable of testing open and closed loop pumps from 45 up to 140 kW. A stepless speed control between 0 and 2800 rpm makes it possible to test most common pumps.

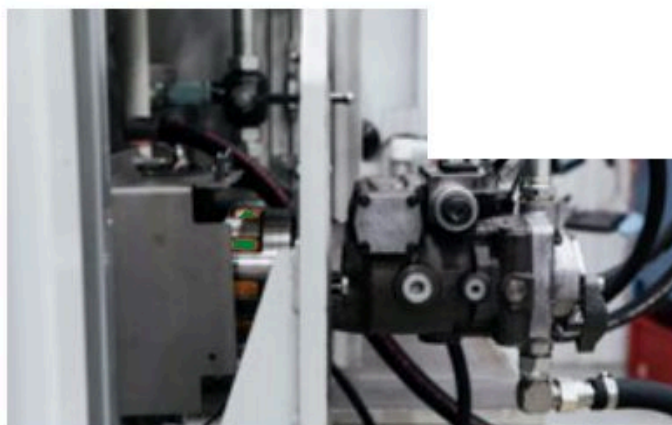
Our test bench is capable of pressure testing from 0 up to 440 bar. Two turbine sensors measure work flow up to 300 l / min and leakage flow up to 75 l / min .

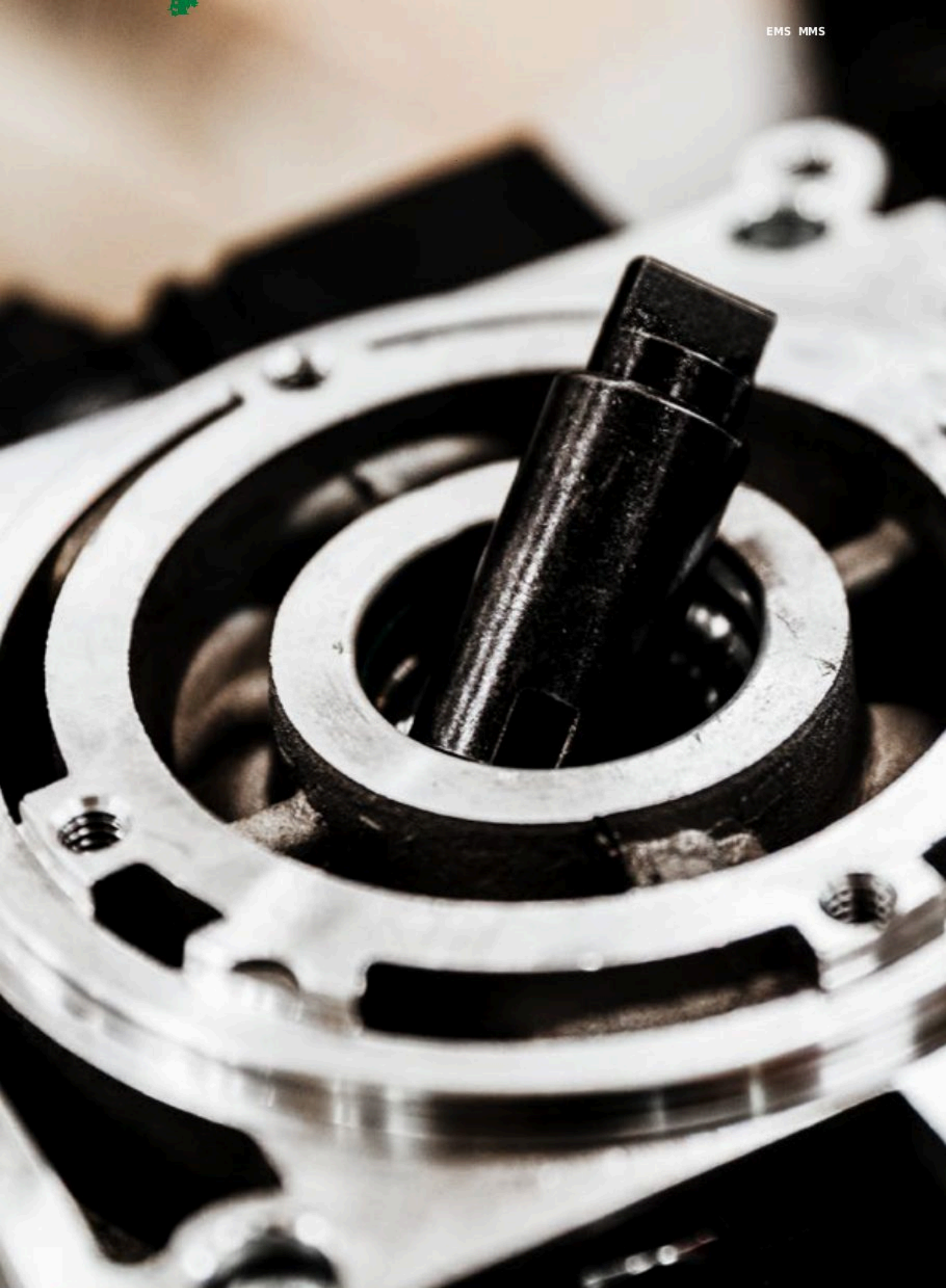
The oil flow in combination with pressure, temperature and drive speed is monitored on a computer screen ,and test results are linked with the serial number of the pump .

The in-line particle counter provides information on pollution of the hydraulic oil. Several alarms are fitted for monitoring of temperature, oil filter etc.

If you want us to assist with your diagnostics, we are able to test and repair your hydraulic component. Please use the ask for a reparation for the hvdraulic coomponen: emstamatave.mg

For more information, contact your sales adv





A close-up photograph of a mechanical gear coupling, showing the interlocking teeth of two gears. The image is partially obscured by a large green diagonal shape that covers the right side of the page.

14. **GEAR COUPLINGS**

ENGAGING GEAR / COUPLINGS



- Inner diameter: 79 mm
- Outer diameter: 241 mm
- Height: 20.5 mm
- Number of splines: 50

REF MMS-HY-06554



- Inner diameter: 79 mm
- Outer diameter: 338 mm
- Height: 43 mm
- Number of splines: 50

REF MMS-HY-06555



- Inner diameter: 79 mm
- Outer diameter: 334 mm
- Height: 44 mm
- Number of splines: 50

REF MMS-HY-06556



- Inner diameter: 78 mm
- Outer diameter: 314 mm
- Height: 21 mm
- Number of splines: 50

REF MMS-HY-06557



- Inner diameter: 78 mm
- Outer diameter: 263.5 mm
- Height: 20 mm
- Number of splines: 50

REF MMS-HY-06558



- Inner diameter: 78.5 mm
- Outer diameter: 215.9 mm
- Height: 20 mm
- Number of splines: 50

REF MMS-HY-06559

ENGAGING GEAR / COUPLINGS

- Inner diameter: 73 mm
- Outer diameter: 165 mm
- Height: 20 mm
- Number of splines: 50

REF **MMS-HY-06560**

- Inner diameter: 78 mm
- Outer diameter: 150.4 mm
- Height: 25 mm
- Width: 20 mm
- Number of splines: 50

REF **MMS-HY-06564**

- Inner diameter: 79 mm
- Outer diameter: 135 mm
- Height: 17 mm
- Number of splines: 50

REF **MMS-HY-06561**

- Inner diameter: 72.5 mm
- Outer diameter: 125 mm
- Height: 30 mm
- Width: 30 mm
- Number of teeth: 50

REF **MMS-HY-06565**

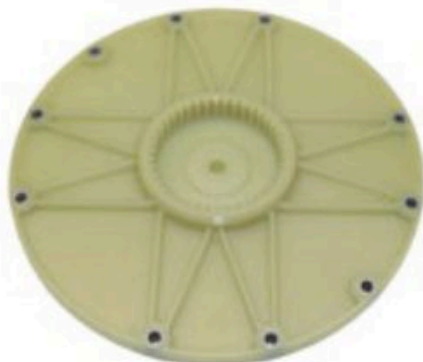
- Inner diameter: 110 mm
- Outer diameter: 263.5 mm
- Height: 28 mm
- Number of splines: 42

REF **MMS-HY-06562**

- Inner diameter: 100.8 mm
- Outer diameter: 314.5 mm
- Height: 26.8 mm
- Number of splines: 42

REF **MMS-HY-06563**

ENGAGING GEAR / COUPLINGS



- Inner diameter: 111 mm
- Outer diameter: 338 mm
- Height: 40 mm
- Number of splines: 42

REF **MMS-HY-06566**



- Inner diameter: 111 mm
- Outer diameter: 178 mm
- Height: 44 mm
- Number of splines: 42

REF **MMS-HY-06568**



- Inner diameter: 97 mm
- Outer diameter: 314 mm
- Height: 24.5 mm
- Number of splines: 47

REF **MMS-HY-06567**



- Inner diameter: 133.5 mm
- Outer diameter: 352 mm
- Height: 31.5 mm
- Number of splines: 46

REF **MMS-HY-06569**



- Diameter: 14 mm
- Height: 11.6 mm
- Smallest width: 3 mm
- Biggest width: 4 mm

REF **MMS-HY-06570**



- Diameter: 18 mm
- Height: 25 mm
- Smallest width: 5 mm
- Biggest width: 6.4 mm

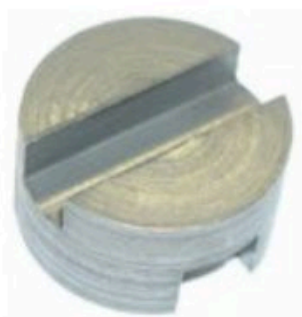
REF **MMS-HY-06571**

ENGAGING GEAR / COUPLINGS

- Outer diameter: 39.6 mm
- Inner diameter: 25 mm
- Height: 25 mm
- Width: 8 mm
- Number of splines: 30

REF **MMS-HY-06572**

- Diameter: 17.8 mm
- Height: 43.7 mm
- Smallest width: 5 mm
- Biggest width: 8 mm

REF **MMS-HY-06573**

- Diameter: 29.5 mm
- Height: 16 mm
- Smallest width: 8.2 mm
- Biggest width: 10.1 mm

REF **MMS-HY-06574**

- Diameter: 30 mm
- Height: 19 mm
- Width: 8 mm

REF **MMS-HY-06575**

- Diameter: 14.8 mm
- Height: 17.3 mm
- Smallest width: 4.9 mm
- Biggest width: 5.1 mm

REF **MMS-HY-06576**

- Diameter: 36 mm
- Height: 18 mm
- Smallest width: 8 mm
- Biggest width: 10 mm

REF **MMS-HY-06577**

ENGAGING GEAR / COUPLINGS



- Diameter: 25.5 mm
- Height: 19.8 mm
- Smallest width: 6.5 mm
- Biggest width: 8 mm

REF **MMS-HY-06578**



- Diameter: 30 mm
- Height: 12 mm
- Width: 8.05 mm

REF **MMS-HY-06579**

You can also use
our technical sheet



NOTES



15.

HYDRAULIC PUMP UNITS

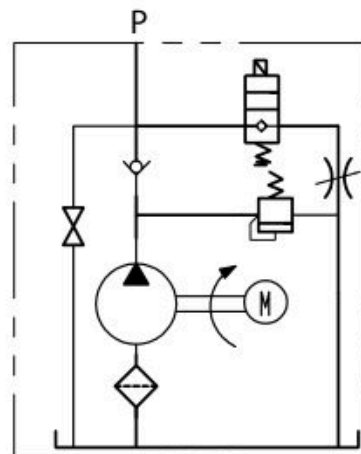
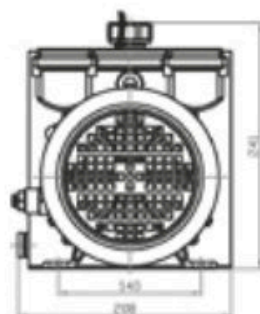
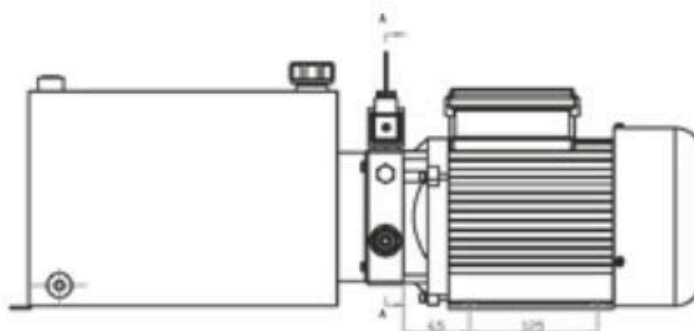
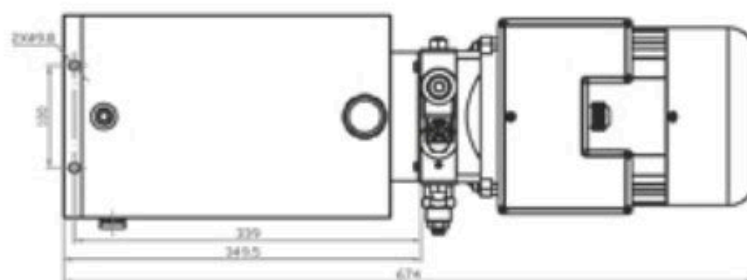
HYDRAULIC PUMP UNITS

HYDRAULIC PUMP UNIT

If you want a reparation of your hydraulic pump unit, please use our repair form:



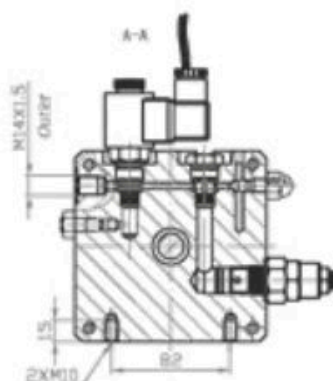
Hydraulic scheme



Technical data:

- Motor: 220 VAC 2.2 kW
- Pump: 4.2 cc/r
- Relief valve: 100 bar
- Tank: 12 l/horizontally mounted

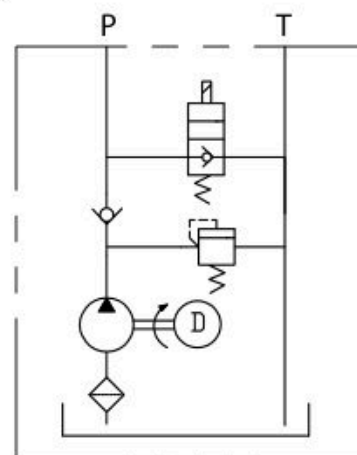
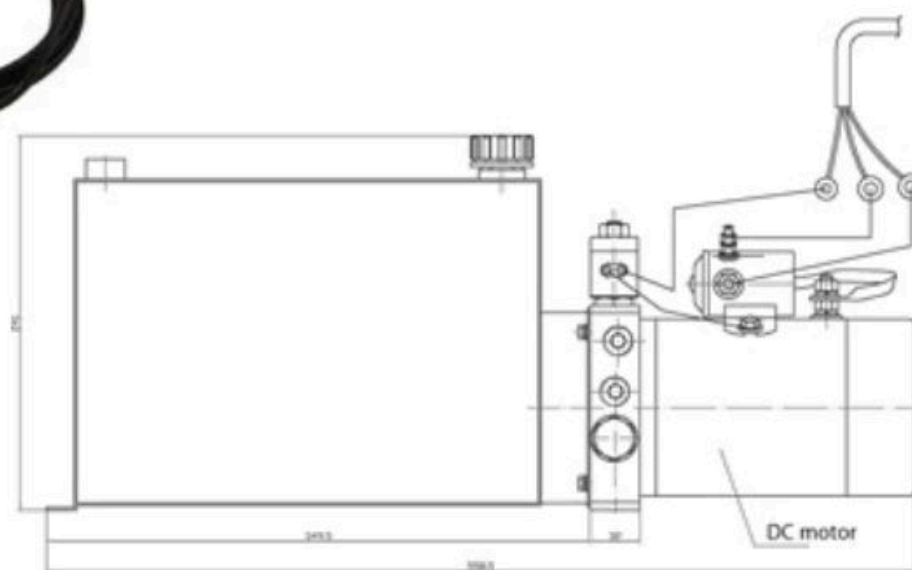
REF **MMS-HY-06580**



HYDRAULIC PUMP UNIT



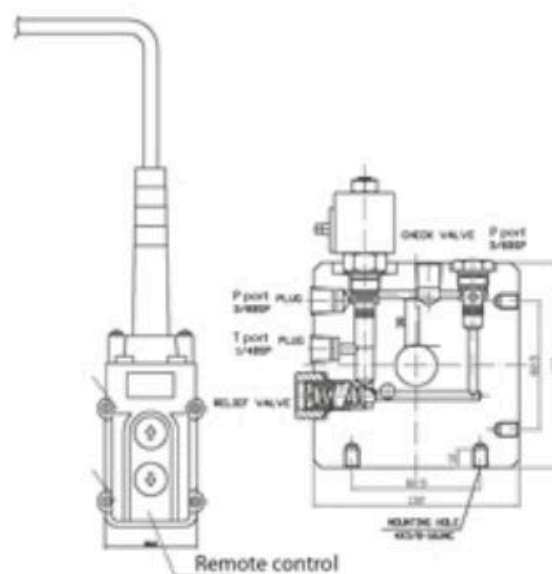
Hydraulic scheme



Technical data:

- Motor: 12 VDC 1.5 kW
- Gear pump: 2.1 cc/r
- Relief valve: 200 bar
- Tank: 12 l/horizontally mounted

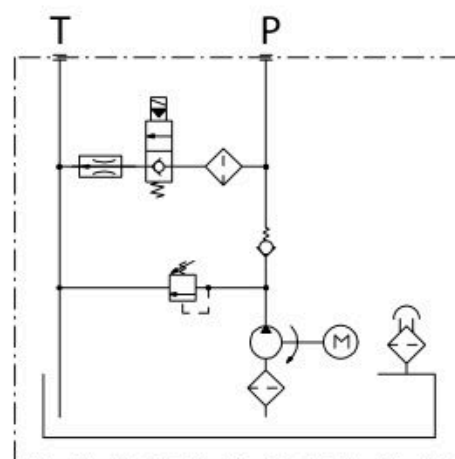
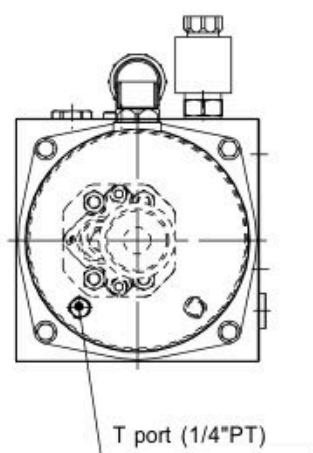
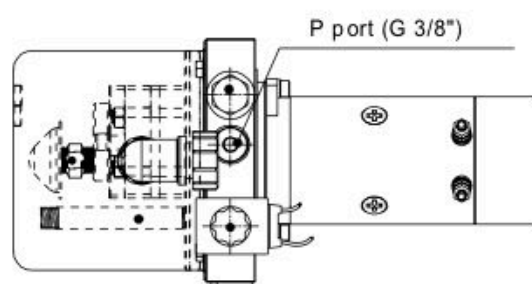
REF **MMS-HY-06581**



HYDRAULIC PUMP UNIT



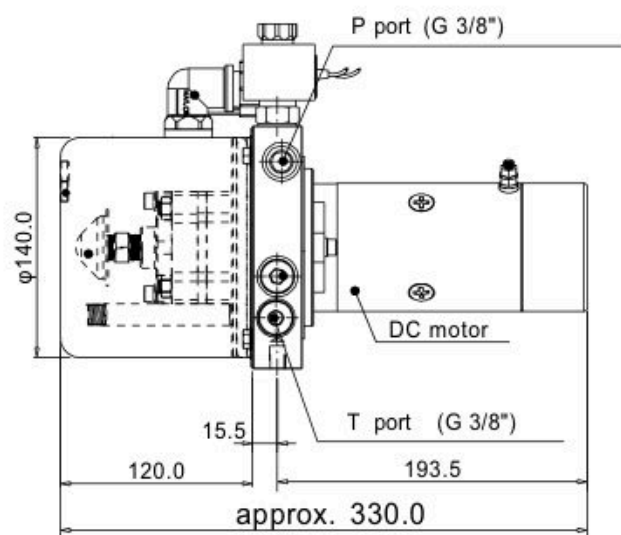
Hydraulic scheme



Technical data:

- Motor: 24 VDC 0.8 kW
- Pump: 0.7 cc/r
- Relief valve: 180 bar
- Tank: 1.0 l/vertically mounted

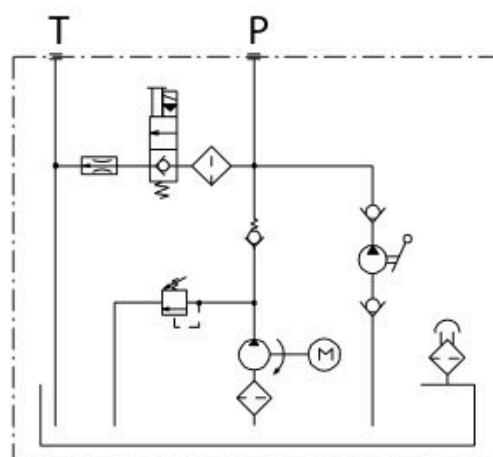
REF **MMS-HY-06582**



HYDRAULIC PUMP UNIT



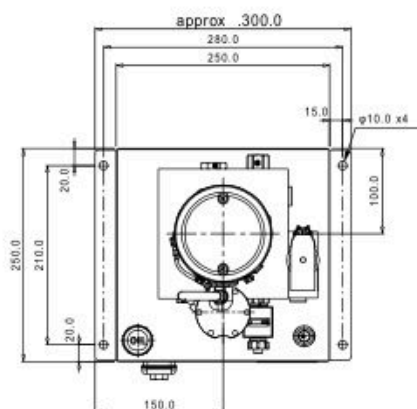
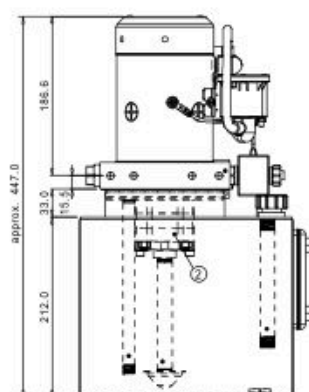
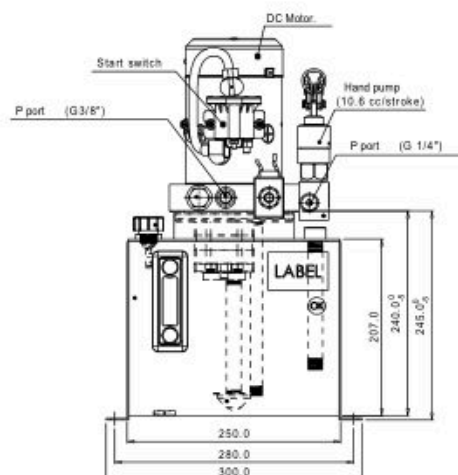
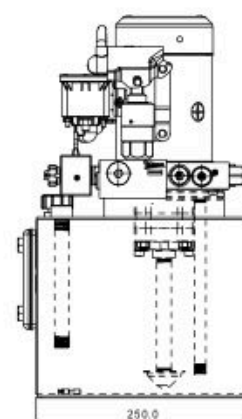
Hydraulic scheme



Technical data:

- Motor: 12 VDC 1.5 kW
- Pump: 4.0 cc/r
- Hand pump: 10.6 cc/stroke
- Relief valve: 120 bar
- Tank: 12 l/vertically mounted

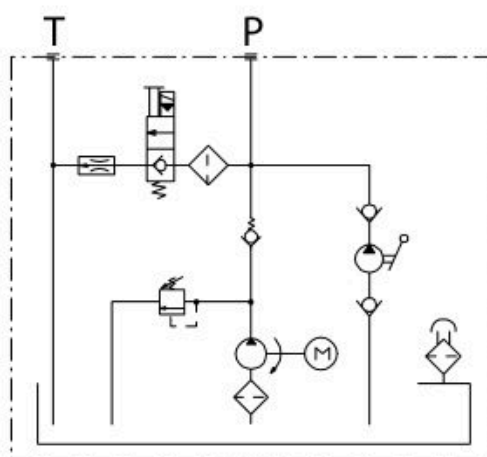
REF MMS-HY-06583



HYDRAULIC PUMP UNIT



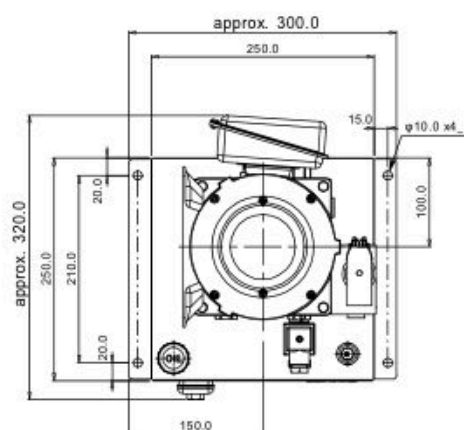
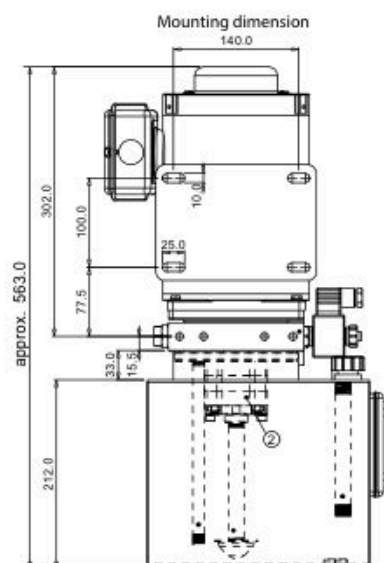
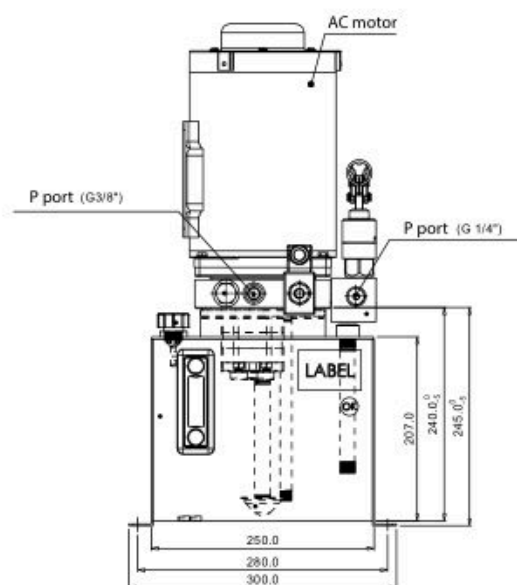
Hydraulic scheme



Technical data:

- Motor: 110/220 V - 1 phase 1.5 kW
- Pump: 4.0 cc/r
- Hand pump: 10.6 cc/stroke
- Relief valve: 130 bar
- Tank: 12.0 l/vertically mounted

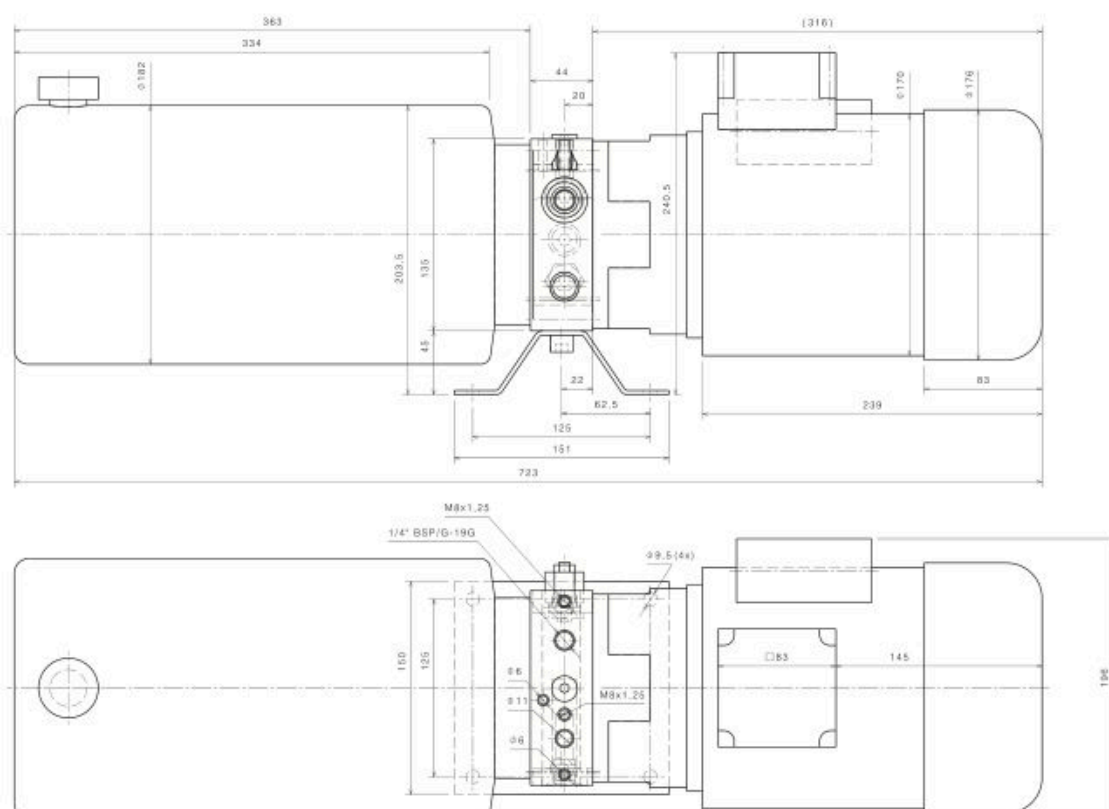
REF **MMS-HY-06584**





- Motor: 220 VAC 1.5 kW
- Pump: 2.5 cc/r
- Relief valve: 100 bar
- Tank: 8 l/horizontally mounted

REFMMS-HY-06585

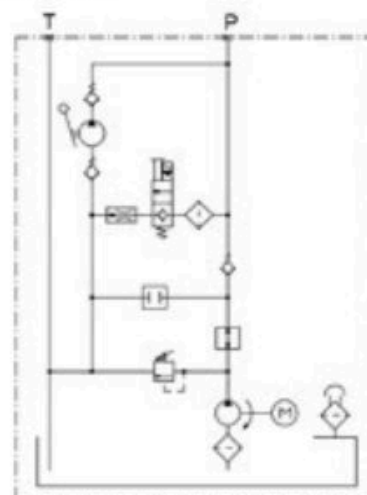
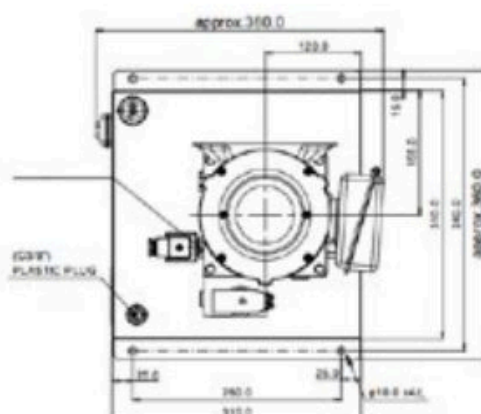


HYDRAULIC PUMP UNITS

HYDRAULIC PUMP UNIT



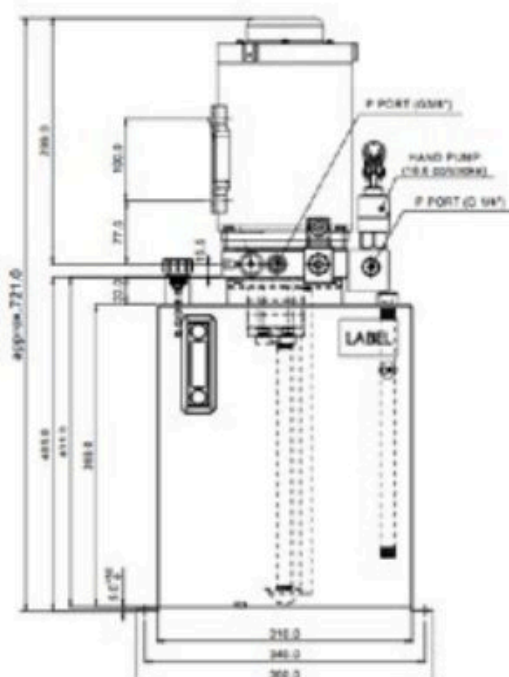
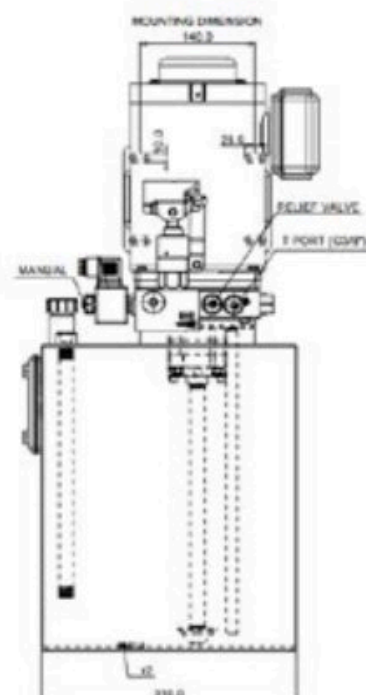
Hydraulic scheme



Technical data:

- Motor: 110/220V - 1 phase 1.5kW
- Pump: 4.0 cc/r
- Hand pump: 10.6 cc/stroke
- Relief valve: 150 bar
- Tank: 30 l

REF MMS-HY-06586



HYDRAULIC UNITS

Not found what you need?
We can help you with unique
configurations!



- Used for: CLARK
- Type: CLARK ECM 20-30, EPM 20-30
- Voltage: 80 VDC

REF **MMS-HY-06587**



- Used for: BT
- Type: BT RT/TRT/FRT
- Voltage: 48 VDC

REF **MMS-HY-06591**



- Used for: JUNGHEINRICH
- Type: JUNGHEINRICH EKE/EKC/EJP/Kms
- Voltage: 24 VDC

REF **MMS-HY-06588**



- Used for: JUNGHEINRICH - MIC
- Type: JH EEC 10 E, JH SW 12, JH HC 10, MIC GU100MB, MIC G100MB, MIC G100B, MIC G100C, MIC G10E, MIC GU10E, MIC G10M
- Voltage: 24 VDC

REF **MMS-HY-06592**



- Used for: LINDE
- Type: LINDE E12/E14
- Voltage: 24 VDC

REF **MMS-HY-06589**



- Used for: LINDE
- Type: LINDE E12/E14, E15Z-02
- Voltage: 48 VDC

REF **MMS-HY-06590**

HYDRAULIC UNITS

Not found what you need?
We can help you with unique
configurations!



- Used for: LINDE
- Type: LINDE E12
- Voltage: 24 VDC

REF **MMS-HY-06593**



- Used for: STEINBOCK
- Type: STEINBOCK WP13/WL15
- Voltage: 24 VDC

REF **MMS-HY-06595**



- Used for: LINDE
- Type: LINDE E12
- Voltage: 24 VDC

REF **MMS-HY-06594**



- Used for: LINDE - FENWICK
- Type: FENWICK SM10/15P, FENWICK-LINDE RE16/20
- Voltage: 72 VDC

REF **MMS-HY-06596**

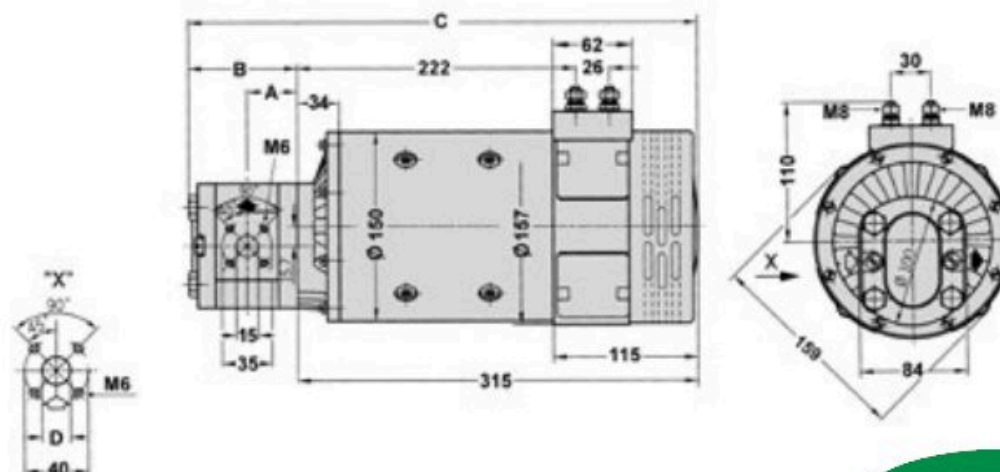


Find out more about our reconditioned parts
in our brochure **REF 3132695**

You can also use our technical sheet to choose a replacement part of
your existing pump unit.

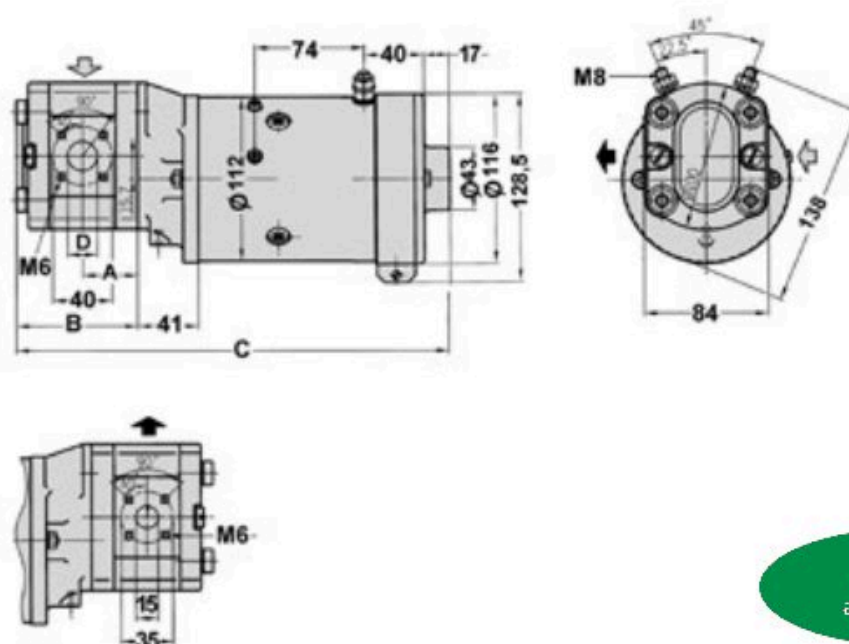


PUMP MOTORS



Universal
application

W	V	cm ³ /rev	A	B	C	D	REF
3000	24	8	41	89	404	20	MMS-HY-06597
3000	24	11	45	94	409	20	MMS-HY-06598
3700	48	11	45	100	415	20	MMS-HY-06599

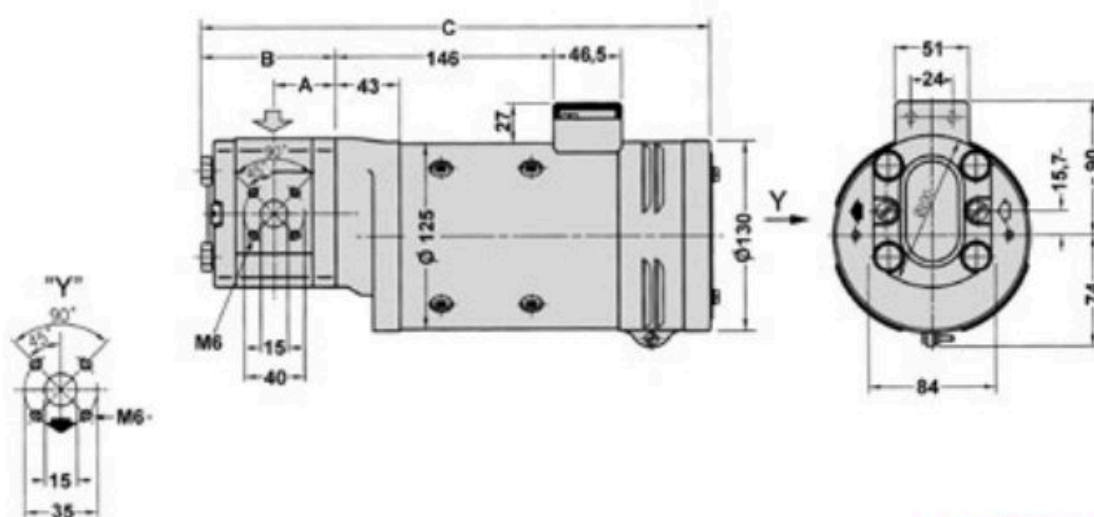


Universal
application

W	V	cm ³ /rev	A	B	C	D	REF
2000	24	4	37.3	82.5	293	15	MMS-HY-06588

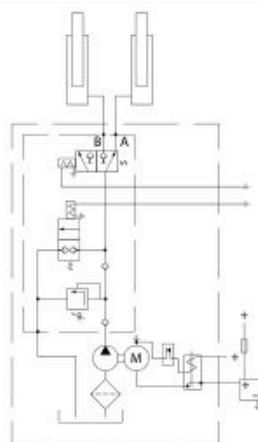
[illegible]

W	V	cm³/rev	A	B	C	E	REF
1000	72	5.5	38.6	85	333	248	MMS-HY-06600



W	V	cm ³ /rev	A	B	C	E	REF
500	72	5.5	38.6	85	340	255	MMS-HY06601

DC HYDRAULIC POWER UNIT



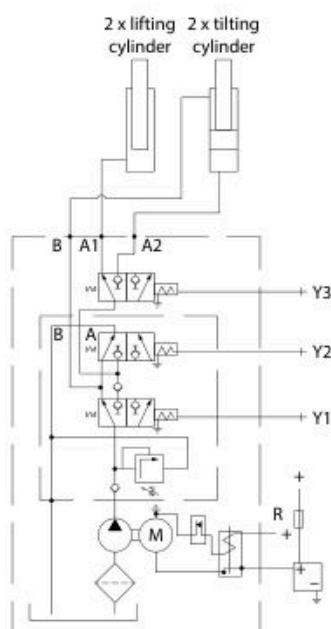
DC hydraulic power unit for two single acting functions e.g. for tail gate lifts.

- Electric motor: 2 kW
- Hydraulic circuit: 2x single acting
- Pump size: 3.2 cc/r
- Tank volume: 6.2 l
- Voltage: 12 VDC

REF **MMS-HY-06602**

Voltage: 24 VDC
REF **MMS-HY-06603**

Voltage: 48 VDC
REF **MMS-HY-06604**



DC hydraulic power unit for mixed double and single acting functions e.g. for tail gate lifts.

- Electric motor: 2 kW
- Pump size: 2.6 cc/r
- Tank volume: 9.8 l
- Voltage: 12 VDC

REF **MMS-HY-06605**

Tail gate lift with:

- A. Single acting lifting cylinders
- B. Double acting tilting cylinders

Operations:

1. Lifting (pump power up)
2. Lowering (gravity down)
3. Tilt close (pump power close)
4. Tilt open (pump power open)

Note:

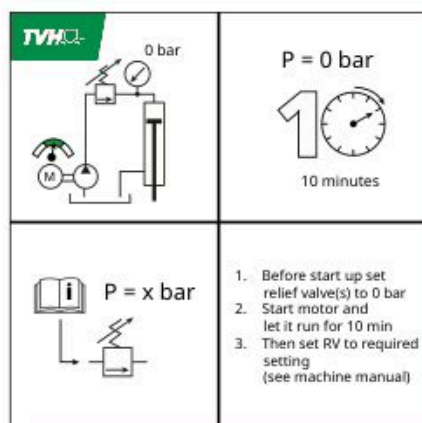
Relief valve setting has to be examined and adjusted to lift construction

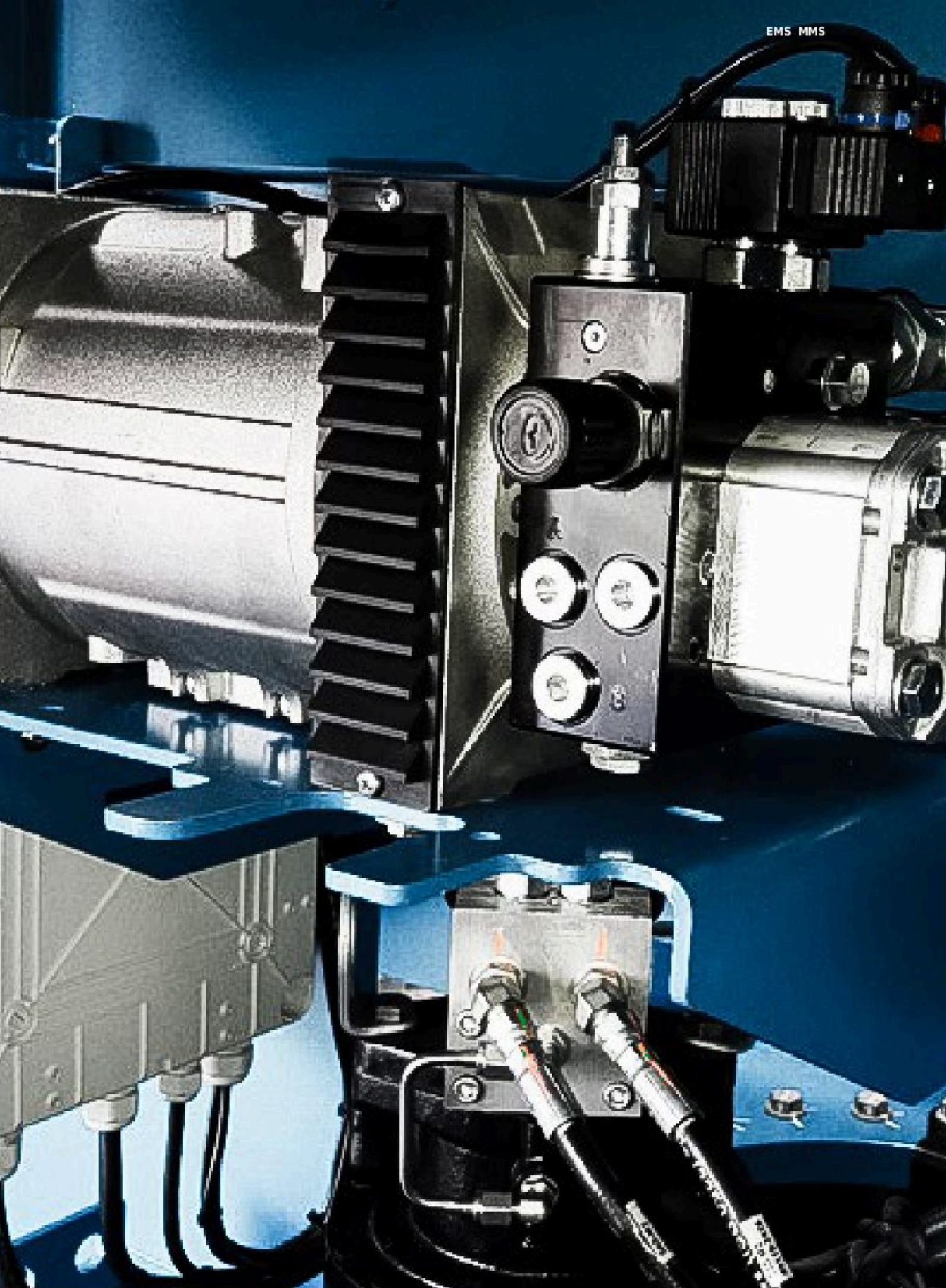
Operation overview:

- Operation: activate solenoid
- Up: R + Y1
- Down: Y2
- Tilt up close: R + Y1 + Y3
- Tilt down open: R + Y2 + Y3

Voltage: 24 VDC
REF **MMS-HY-06606**

START UP PROCEDURE HYDRAULIC PUMP UNIT







16. **HYDRAULIC GENERATORS**

HYDRAULIC GENERATOR



Tired of hauling around a generator for your power tools?

The new hydraulic generator from EMS / MMS doesn't need to be carried. This hydraulic, compact and easy-to-install power supply will help you do your job at any height with all your small and heavy power tools.

This generator can be connected to the hydraulic circuits of aerial work platforms, earth-moving equipment, trucks, cranes and other construction machines.

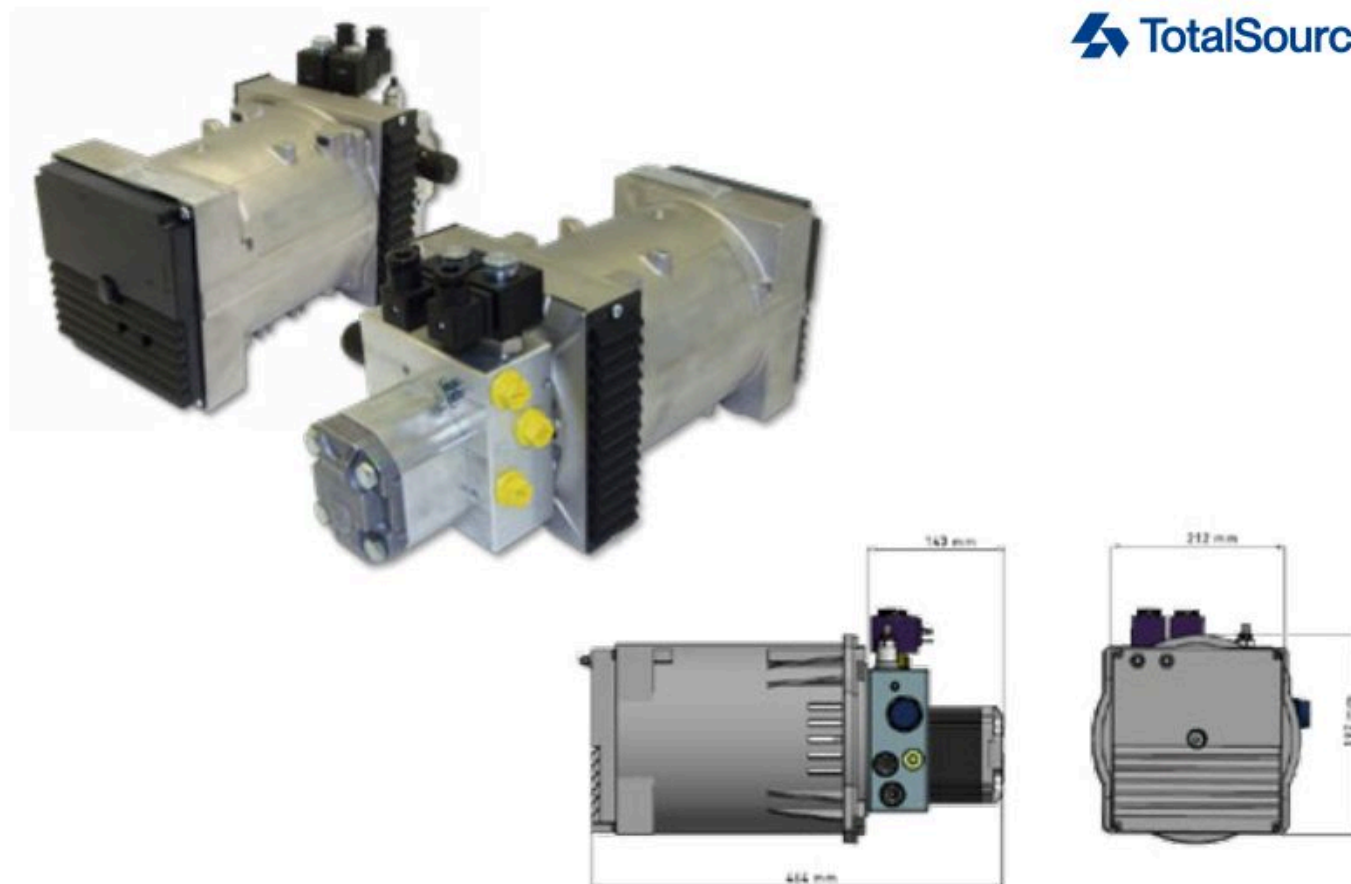
For more information, please contact your sales advisor.

CE



Advantages:

- **High-quality** product
- Compact size and easy to install
- No need for an external power supply and thus no extra costs
- **Safe working**, no cable reels hanging around
- AVR (Automatic Voltage Regulation): makes sure your **voltage stays stable** under all circumstances
- Start/stop function results in a **longer life span of your generator**
- All references can be used on machines equipped with a fixed displacement main pump or with a load sensing pump
- All required certificates available

HYDRAULIC GENERATOR
 **TotalSource**


Electrical characteristics					Hydraulic characteristics						
Power	Voltage	Frequency	On-off valve	AVR (Regulation range)	Flow min-max	Ideal flow	Pressure min-max	Back pressure	Oil temp. (max)	Displacement	REF
kVA	V	Hz	VDC		l/min	l/min	bar	bar	°C		
4.2	230	50	12	+/-2%	30-45	35	150-210	8	70	9CC	MMS-HY-06607
4.2	230	50	24	+/-2%	30-45	35	150-210	8	70	9CC	MMS-HY-06608
4.2	230	50	12	+/-2%	15-30	18	150-210	8	70	6CC	MMS-HY-06609
4.2	230	50	24	+/-2%	15-30	18	150-210	8	70	6CC	MMS-HY-06610
5.2	110	60	12	+/-2%	25-30	27	150-210	8	70	6CC	MMS-HY-06611
5.2	110	60	24	+/-2%	25-30	27	150-210	8	70	6CC	MMS-HY-06612



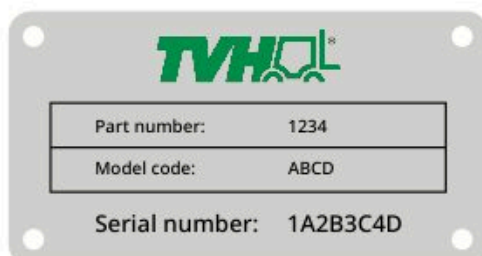
17. **STEERING UNITS**

STEERING UNITS



To order a steering unit, give us the full details of the ID plate on the steering unit, engravings in the unit and the complete machine details.

Example of an ID plate of a hydraulic component

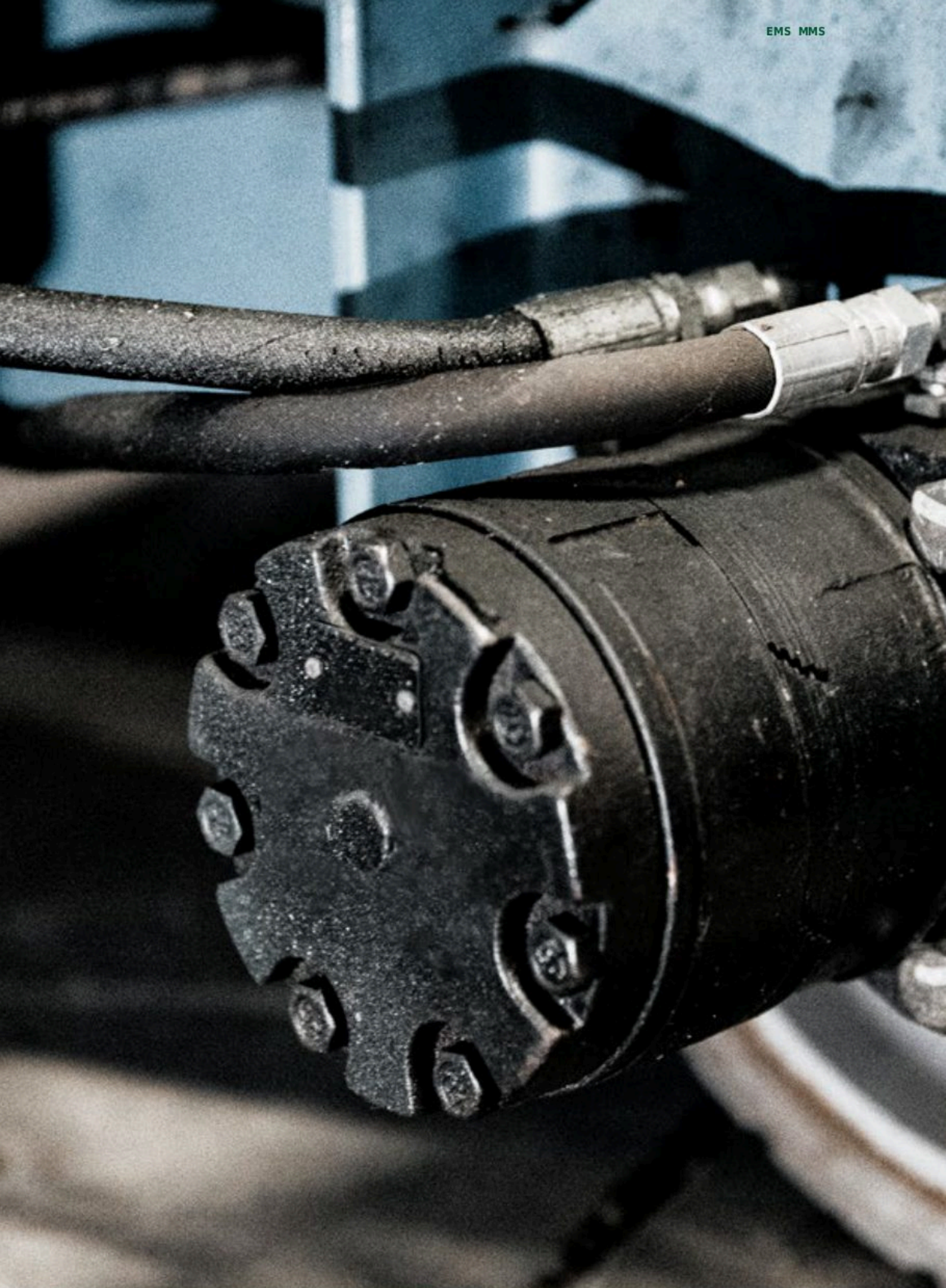


We can offer you the brands below:

Danfoss (Eaton hydraulics), M+S, Parker, White



NOTES



A close-up photograph of a hydraulic motor, showing its metallic body and various ports. The image is partially obscured by a large green diagonal overlay.

18. **HYDRAULIC MOTORS**

HYDRAULIC MOTORS



EMS / MMS has a large stock of hydraulic motors for all material handling makes and models.

We stock over 2000 different motors.

We can offer you the brands below:

Bondioli & Pavesi, Rexroth, Bucher, Danfoss, Linde Hydraulics, Parker, Poclain, White



Example of an ID plate of a hydraulic component

EMS / MMS	
P.	
Model code:	ABCD
Serial number:	1A2B3C4D

If you have an ID plate we need the following details in order to find the correct unit: Brand (example: ^{EMS / MMS} partnumber (example: 1234), Modelcode (example: ABCD). If you could send us a clear and readable picture of the ID plate on the pump, this will also enable us to find the correct unit for you.

If you want a reparation of your hydraulic motor, please use our repair form

[CONTACT EMS / MMS](#)

For more information, contact your sales advisor.

[CONTACT EMS / MMS](#)

You can also fill in our technical sheet, this will help us to find the correct replacement part for your hydraulic

[CONTACT EMS / MMS](#)

FINAL DRIVES

Want to make sure you order the correct hydraulic motor or final drive? Simply fill out the intake form and add a picture of the old motor's ID plate. Send it to us together with info on the type of small earth-mover and its year of manufacturing, and we can help you find the perfect part!



Machine:

Type = _____

Nr. of hose connections = _____

Nr. of bolt holes = _____

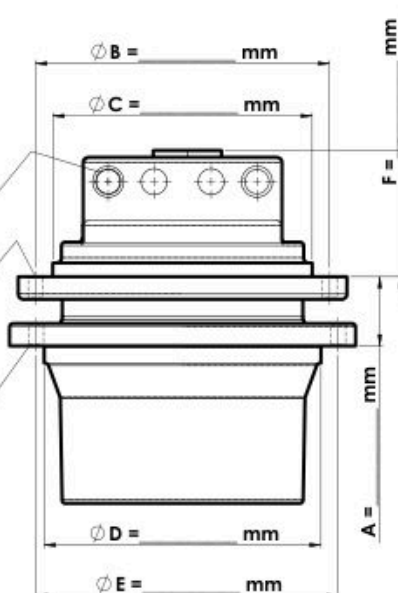
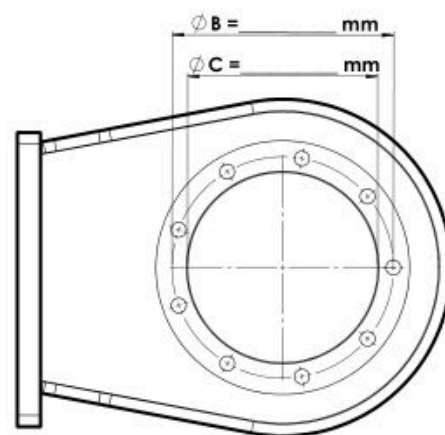
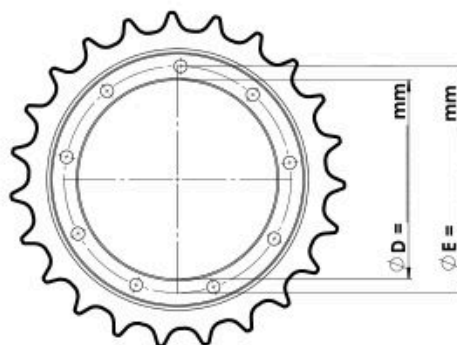
Thread type = _____

1 or 2 speed = _____

Nr. of bolt holes = _____

Thread type = _____

**Please provide a photo of the
nameplate/final drive**





19.

HYDRAULIC DISTRIBUTORS

HYDRAULIC DISTRIBUTORS

COMPLETE DISTRIBUTOR BLOCK

These units have to be ordered by giving full details of the distributor block make or the complete machine details.

If you want a reparation of your hydraulic distributor, please use our repair form:



For more information,
contact your sales advisor.

We can offer you the brands below:

Bucher, Hawe, Kyb, Linde-Hydraulics,
Parker, Rexroth, Salami, Shimadzu



Example

	
Part number:	1234
Model code:	ABCD
Serial number:	1A2B3C4D

Please send us a clear picture of the ID plate of your hydraulic distributor. This will help us in the search of the perfect part for your machine or application. If there is no ID plate, please send us your machine information so that we can offer you the right replacement part.

SEPARATE PARTS FOR DISTRIBUTOR BLOCKS



Used on Merlo

REF:MMS-HY-06613



Used on Merlo

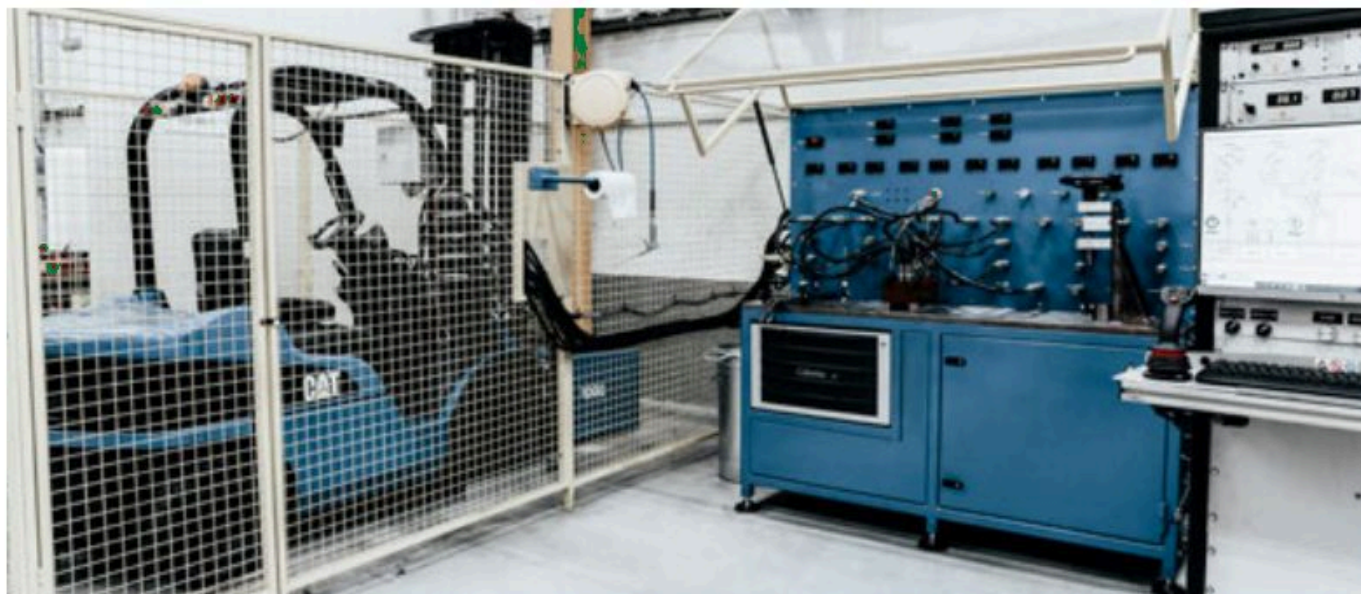
REF:MMS-HY-06614



Used on Manitou

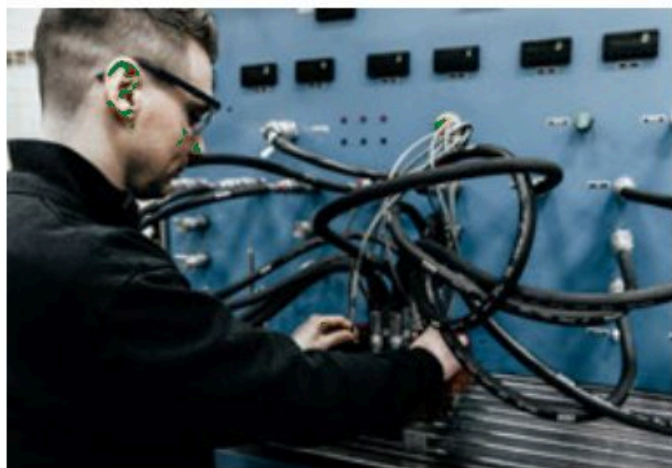
REF:MMS-HY-06615

HYDRAULIC DISTRIBUTORS



Quality is an important factor for the profitability of your company. In order to guarantee quality, we do not want to make any concessions. That is why we continue to innovate, for example with the hydraulic inspection on our hydraulic test benches. We use this to test the efficiency of your hydrostatic and powershift transmissions, hydraulic pumps, engines, valves and cylinders.

Our valve test bench is capable of testing every hydraulic valve used in mobile hydraulics. By connecting the valve to a loaded forklift, we are able to simulate load and we are able to check all the functions on "a true to nature" way. We are also able to determine the internal leakage on hydraulic valves within a short time.



If you want a reparation of your hydraulic distributor, please use our repair form:





20.

AUXILIARY VALVES & HANDLE KITS

AUXILIARY VALVES & HANDLE KITS

USED FOR: HYSTER



REF **MMS-HY-06616** 30 valve section

REF **MMS-HY-06617** Seal kit valve section

- H2.00-3.20XM; different valve kits possible, depending on serial nrs

USED FOR: KALMAR



REF **MMS-HY-06624** 30 valve section

REF **MMS-HY-06625** Seal kit valve section

- DB8-16, DB28-42, DC28-42

USED FOR: KOMATSU



REF **MMS-HY-06618** 30 valve section

REF **MMS-HY-06619** Seal kit valve section



REF **MMS-HY-06620** 30 valve kit

- FG/20, 25, 30-12
- FG/FD14, 15, 18-16
- FD10L-14L-15L-18L-16
- FG/FD14, 15, 18-17
- FG15H, FG18H-17

USED FOR: KOMATSU



REF **MMS-HY-06621** 30 valve section

REF **MMS-HY-06622** Seal kit valve section



REF **MMS-HY-06623** 30 valve kit

- FG10D-14-15D-18D-15
- FG/FD15HD-18HD-15
- FD10D-14D-15D-18D-15
- FG/FD20D-25D-30D-11
- FG20S-25S-30S-11

USED FOR: LINDE

REF MMS-HY-06626 3-position valve section

REF MMS-HY-06627 seal kit valve section



REF MMS-HY-06628 3-position valve kit

REF MMS-HY-06629 seal valve kit

• H20-30 / 351

• H35-45 / 352

USED FOR: LINDE

REF MMS-HY-06626 3-position valve section

REF MMS-HY-06627 seal kit valve section



REF MMS-HY-06630 3-position valve kit

REF MMS-HY-06631 seal valve kit

• H12-18 / 350

USED FOR: LINDE

REF MMS-HY-06626 3-position valve section

REF MMS-HY-06627 seal kit valve section



REF MMS-HY-06632 3-position valve kit

REF MMS-HY-06633 seal valve kit

• H50-80 / 353

USED FOR: MANITOU

REF MMS-HY-06634 3-position valve section

REF MMS-HY-06635 seal kit valve section



REF MMS-HY-06636 3-position valve kit

REF MMS-HY-06637 seal valve kit

AUXILIARY VALVES & HANDLE KITS

USED FOR: MITSUBISHI



REF MMS-HY-06638 3-position valve section

REF MMS-HY-06637 seal kit valve section



REF MMS-HY-06645 2-position valve kit

- FG28, 30, 35A - F13D
- FG20, 25K - EF17B
- FG20, 23, 25 - F17B
- FG10, 14, 15, 18 - F25B
- FG10, 14, 15, 18 - F25A
- FD28, 30, 35A - F14C
- FD20, 25K - EF18B
- FD20, 23, 25 - F18B
- FD10, 15, 25 - EF16

USED FOR: MITSUBISHI



REF MMS-HY-06646 3-position valve section

REF MMS-HY-06647 seal kit valve section



REF MMS-HY-06639 2-position valve kit

REF MMS-HY-06648 2-position valve kit

- FD28, 30 - F14B
- FD14, 15, 18 - F16A

USED FOR: MITSUBISHI



REF MMS-HY-06638 3-position valve section

REF MMS-HY-06637 seal kit valve section



REF MMS-HY-06639 2-position valve kit

REF MMS-HY-06640 2-position valve kit

- FG28, 30, 35A - F13C
- FD28, 30 - F14B

USED FOR: MITSUBISHI



REF MMS-HY-06641 3-position valve section

REF MMS-HY-06643 seal kit valve section



REF MMS-HY-06643 2-position valve kit

REF MMS-HY-06644 2-position valve kit

- FB18KT, 20KT - EFB5B
- FB18KT, 20KT - EFB5A
- FB16KT - EFB4B
- FB16KT - EFB4A

USED FOR: MITSUBISHI

REF MMS-HY-06649 3-way valve section
REF MMS-HY-06650 Seal kit valve section



REF MMS-HY-06651 3-way valve kit
REF MMS-HY-06652 4-way valve kit

• FD60, 70-F20B

USED FOR: MITSUBISHI

REF MMS-HY-06649 3-way valve section
REF MMS-HY-06650 Seal kit valve section



REF MMS-HY-06653 3-way valve kit
REF MMS-HY-06654 4-way valve kit

• FD40K, 40KL, 45K - EF19C

USED FOR: MITSUBISHI

REF MMS-HY-06649 3-way valve section
REF MMS-HY-06650 Seal kit valve section



REF MMS-HY-06651 3-way valve kit
REF MMS-HY-06652 4-way valve kit

• FD35, 38, 40 - F19A

USED FOR: NICHYU-NYK

REF MMS-HY-06655 3-way valve section
REF MMS-HY-06656 Seal kit valve section



REF MMS-HY-06657 3-way valve kit
REF MMS-HY-06658 4-way valve kit

• FB20, 25, 28 P55
• FBT10, 13, 15, 18 P50&60

AUXILIARY VALVES & HANDLE KITS

USED FOR: NICHYU-NYK



REF MMS-HY-06655 3-Port valve section

REF MMS-HY-06656 Seal kit valve section



REF MMS-HY-06666 3-Port valve kit

- FB10, 14, 15, 18 P60
- FB20, 25, 28, 30 P60
- FB10, 14, 15, 18 P65
- FB20, 25, 28, 30 P65

USED FOR: NICHYU-NYK



REF MMS-HY-06655 3-Port valve section

REF MMS-HY-06656 Seal kit valve section



REF MMS-HY-06664 3-Port valve kit

REF MMS-HY-06665 3-Port valve kit

- FB10, 14, 15, 18, 20, 25, 30P70&75; includes microswitch

USED FOR: NICHYU-NYK



REF MMS-HY-06655 3-Port valve section

REF MMS-HY-06656 Seal kit valve section



REF MMS-HY-06658 3-Port valve kit

REF MMS-HY-06659 3-Port valve kit

- FB10, 14, 15, 18 P-50
- FB10, 14, 15, 18 P-55

USED FOR: NISSAN



REF MMS-HY-06660 3-Port valve section

REF MMS-HY-06661 Seal kit valve section



REF MMS-HY-06662 3-Port valve kit

REF MMS-HY-06663 3-Port valve kit

- J01
- J02

USED FOR: NISSAN

REF MMS-HY-06667 90° valve section
REF MMS-HY-06622 seal kit valve section

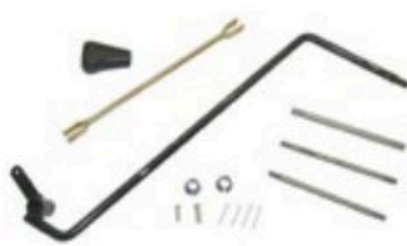


REF MMS-HY-06662 90° valve kit
REF MMS-HY-06663 90° valve kit

• J01

USED FOR: NISSAN

REF MMS-HY-06667 90° valve section
REF MMS-HY-06622 seal kit valve section



REF MMS-HY-06668 90° valve kit
REF MMS-HY-06669 90° valve kit

• J01

• J02

USED FOR: NISSAN

REF MMS-HY-06670 90° valve section



REF MMS-HY-06671 90° valve kit
REF MMS-HY-06672 90° valve kit

• PL/FL/UGL02

USED FOR: NISSAN

REF MMS-HY-06673 90° valve section



REF MMS-HY-06674 90° valve kit
REF MMS-HY-06675 90° valve kit

• F04

AUXILIARY VALVES & HANDLE KITS

USED FOR: NISSAN



REF **MMS-HY-06676** 3-way valve section



REF **MMS-HY-06677** 3-way valve kit • 1B1/1B2

USED FOR: NISSAN



REF **MMS-HY-06670** 3-way valve section



REF **MMS-HY-06671** 3-way valve kit
REF **MMS-HY-06672** 3-way valve kit • 1F1/1F2

USED FOR: NISSAN



REF **MMS-HY-06678** 3-way valve section



REF **MMS-HY-06679** 3-way valve kit • D02

USED FOR: STILL



REF **MMS-HY-06680** 3-way valve section



REF **MMS-HY-06681** 3-way valve kit
REF **MMS-HY-06682** 3-way valve kit • R50; serie 5041 - 5044

USED FOR: STILLREF **MMS-HY-06683** 3-Valve sectionREF **MMS-HY-06684** 3-Valve kitREF **MMS-HY-06685** 3-Valve kit

• R60; serie 6022 - 6025

USED FOR: STILLREF **MMS-HY-06686** 3-Valve sectionREF **MMS-HY-06687** 3-Valve kitREF **MMS-HY-06688** 3-Valve kit

• R70; serie 7048 - 7050

USED FOR: TCMREF **MMS-HY-06689** 3-Valve sectionREF **MMS-HY-06690** 3-Valve kit

- FD35, 50, 60Z4
- FD35, 50Z5
- FD35, 38, 50Z6
- FD40, 70Z2
- F(V)D50, 60, 70Z7

USED FOR: TCMREF **MMS-HY-06691** 3-Valve sectionREF **MMS-HY-06690** 3-Valve kit

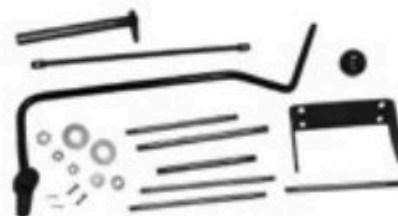
• F(V)G15 - F(V)D15

AUXILIARY VALVES & HANDLE KITS

USED FOR: TCM



REF MMS-HY-06621 2-way valve section



REF MMS-HY-06692 3-way valve kit

REF MMS-HY-06693 4-way valve kit

- FHG36N8
- FG20, 25N2S
- FD20, 25Z2S
- FVD10, 18Z15
- FHG30, 36N8
- FVD23, 25Z1
- FVD28, 30Z7
- FVG28, 30N7

USED FOR: TCM



REF MMS-HY-06621 2-way valve section



REF MMS-HY-06694 3-way valve kit

REF MMS-HY-06695 4-way valve kit

- FD20, 23, 25Z3; Alpha series
- FG20, 23, 25N3; Alpha series
- FHD20, 30Z
- FHG20, 30N
- FD28, 30Z8
- FD20, 25 Z14; Alpha series

USED FOR: TCM



REF MMS-HY-06696 2-way valve section



REF MMS-HY-06697 3-way valve kit

REF MMS-HY-06698 4-way valve kit

- FB10, 25-6
- FHB15-6

USED FOR: TCM



REF MMS-HY-06621 2-way valve section



REF MMS-HY-06699 3-way valve kit

REF MMS-HY-06700 4-way valve kit

- FB10, 14, 15H5&H15
- FHG35, 36N9&Z9
- FD20, 25Z4
- FB20, 25H5&H15

USED FOR: TCMREF **MMS-HY-06701** 3-way valve sectionREF **MMS-HY-06702** 3-way valve kit
REF **MMS-HY-06703** 3-way valve kit

- FG20, 30C13
- FG/FD20, 30W3
- FD20, 30T3

USED FOR: TCMREF **MMS-HY-06704** 3-way valve sectionREF **MMS-HY-06702** 3-way valve kit
REF **MMS-HY-06703** 3-way valve kit

- F(H)G/F(H)D20, 25T3(13); Inoma series
- F(H)G/F(H)D20, 25C3(13); Inoma series
- F(H)G/F(H)D20, 25W3(13); Inoma series

USED FOR: TCMREF **MMS-HY-06705** 3-way valve sectionREF **MMS-HY-06706** 3-way valve kit
REF **MMS-HY-06707** 3-way valve kit

- FD35, 45C9
- FG/FD35, 40, 45, 50T2
- FG/FD35, 40, 45, 50T9

USED FOR: TERBERGREF **MMS-HY-06624** 3-way valve section

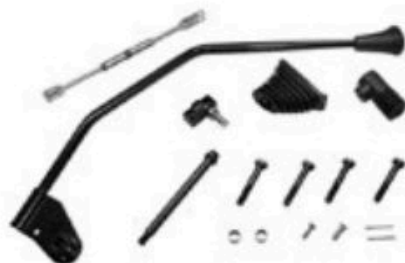
- YT180, YT182, YT220, YT222

AUXILIARY VALVES & HANDLE KITS

USED FOR: TOYOTA



REF **MMS-HY-06717** 3-way valve section



REF **MMS-HY-06718** 3-way valve kit

- 7FG15, 20, 25, 30
- 7FD15, 20, 25, 30
- 7FGF15, 18, 20, 25, 30
- 7FDF15, 18, 20, 25, 35

USED FOR: TOYOTA



REF **MMS-HY-06708** 3-way valve section



REF **MMS-HY-06709** 3-way valve kit

REF **MMS-HY-06710** 3-way valve kit

- 30/32-8FG10, 15, 20, 25, 30
- 60/62-8FD10, 15, 20, 25, 30
- 70/72-8FD20, 25, 30

USED FOR: TOYOTA



REF **MMS-HY-06711** 3-way valve section



REF **MMS-HY-06712** 3-way valve kit

REF **MMS-HY-06713** 3-way valve kit

- 7FB10, 15, 20, 25, 30

USED FOR: TOYOTA



REF **MMS-HY-06714** 3-way valve section



REF **MMS-HY-06715** 3-way valve kit

REF **MMS-HY-06716** 3-way valve kit

- 7FG10, 15, 20, 25, 30; from 08-'05 (valve with 2 mounting holes)
- 7FD10, 15, 20, 25, 30; from 08-'05 (valve with 2 mounting holes)
- 7FGF15, 18, 20, 25, 25, 30; from 08-'05 (valve with 2 mounting holes)
- 7FDF15, 18, 20, 25, 35; from 08-'05 (valve with 2 mounting holes)

USED FOR: TOYOTAREF **MMS-HY-06717** 3-way valve sectionREF **MMS-HY-06719** 4-way valve kitREF **MMS-HY-06720** 4-way valve kit

- 7FG10, 15, 18, 20, 25, 30; thermic truck - 4 bolt valve block
- 7FD10, 15, 20, 25, 30; thermic truck - 4 bolt valve block
- 7FGF15, 18, 20, 25, 30; thermic truck - 4 bolt valve block
- 7FDF15, 18, 20, 25, 35; thermic truck - 4 bolt valve block

USED FOR: TOYOTAREF **MMS-HY-06717** 3-way valve sectionREF **MMS-HY-06712** 4-way valve kitREF **MMS-HY-06720** 4-way valve kit

- 7FG10, 15, 18, 20, 25, 30; thermic truck - 4 bolt valve block
- 7FD10, 15, 20, 25, 30; thermic truck - 4 bolt valve block
- 7FGF15, 18, 20, 25, 30; thermic truck - 4 bolt valve block
- 7FDF15, 18, 20, 25, 35; thermic truck - 4 bolt valve block

USED FOR: TOYOTAREF **MMS-HY-06717** 3-way valve sectionREF **MMS-HY-06715** 2-bolt valve kitREF **MMS-HY-06720** 2-bolt valve kit

- 7FG10, 15, 18, 20, 25, 30; 2 bolt valve block
- 7FD10, 15, 20, 25, 30; 2 bolt valve block
- 7FGF15, 18, 20, 25, 30; 2 bolt valve block
- 7FDF15, 18, 20, 25, 35; 2 bolt valve block

USED FOR: TOYOTAREF **MMS-HY-06717** 3-way valve sectionREF **MMS-HY-06721** 4-way valve kitREF **MMS-HY-06720** 4-way valve kit

- 7FG35, 40; 7 series 3, 5 and 4 ton
- 7FD35, 40; 7 series 3, 5 and 4 ton
- 7FGF35, 40; 7 series 3, 5 and 4 ton
- 7FDF35, 40; 7 series 3, 5 and 4 ton

AUXILIARY VALVES & HANDLE KITS

USED FOR: TOYOTA



REF MMS-HY-06714 3/2 valve section



REF MMS-HY-06709 2/2 valve kit

REF MMS-HY-06710 2/2 valve kit

• 8F

USED FOR: TOYOTA



REF MMS-HY-06722 3/2 valve section



REF MMS-HY-06723 2/2 valve kit

REF MMS-HY-06723 2/2 valve kit

• 8F; joystick controlled

USED FOR: TOYOTA



REF MMS-HY-06724 3/2 valve section



REF MMS-HY-06725 2/2 valve kit

- 4FG10, 14, 15, 18
- 3FD10, 14, 15, 18
- 3FG20, 25, 33, 35, 40
- 2FD20, 25, 30

USED FOR: TOYOTA

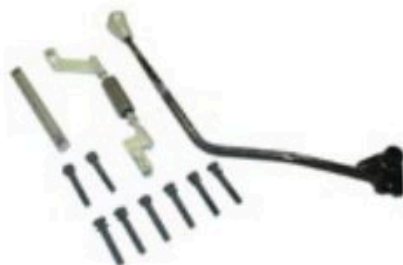


REF MMS-HY-06726 3/2 valve section



REF MMS-HY-06727 2/2 valve kit

• 5FGF/5FDF - 10, 15, 20, 25 (8710 - 8912)

USED FOR: TOYOTAREF **MMS-HY-06728** 3-valve sectionREF **MMS-HY-06729** 3-valve kit

• FBM - 16, 20, 25

USED FOR: TOYOTAREF **MMS-HY-06730** 3-valve sectionREF **MMS-HY-06727** 3-valve kit

• 5FG/5FD 35, 40, 45; up to april 93

USED FOR: TOYOTAREF **MMS-HY-06731** 3-valve sectionREF **MMS-HY-06732** 3-valve kit

• 5FG/5FD 35, 40, 45; from april 93

USED FOR: TOYOTAREF **MMS-HY-06726** 3-valve sectionREF **MMS-HY-06733** 3-valve kit

- Series 5 (8909 -)
- 5FGF/5FDF-10, 15, 20, 25 (8912 -)

AUXILIARY VALVES & HANDLE KITS

USED FOR: TOYOTA



REF **MMS-HY-06734** 3/4 Valve section



REF **MMS-HY-06735** 3/4 Valve kit

- 6FG/6FD10, 14, 15, 18
- 6FG/6FD20, 23, 25
- 6FG/6FD28, 30

USED FOR: TOYOTA



REF **MMS-HY-06736** 3/4 Valve section



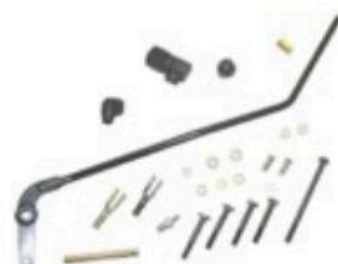
REF **MMS-HY-06737** 3/4 Valve kit

- 2FBE15
- 2FB10, 13, 15, 18

USED FOR: TOYOTA



REF **MMS-HY-06738** 3/4 Valve section



REF **MMS-HY-06739** 3/4 Valve kit

- FBA10, 15
- 4FB10, 14, 15, 20, 25
- FBA20, 25 (8003 - 8711)

USED FOR: TOYOTA



REF **MMS-HY-06739** 3/4 Valve section



REF **MMS-HY-06740** 3/4 Valve kit

- 4FB10, 14, 15; from (8711 -)
- 4FB20, 25; from (8711 -)
- FBA10, 15, 20, 25; from (8711 -)

USED FOR: TOYOTAREF **MMS-HY-06728** 3-Valve sectionREF **MMS-HY-06741** 3-Valve kit

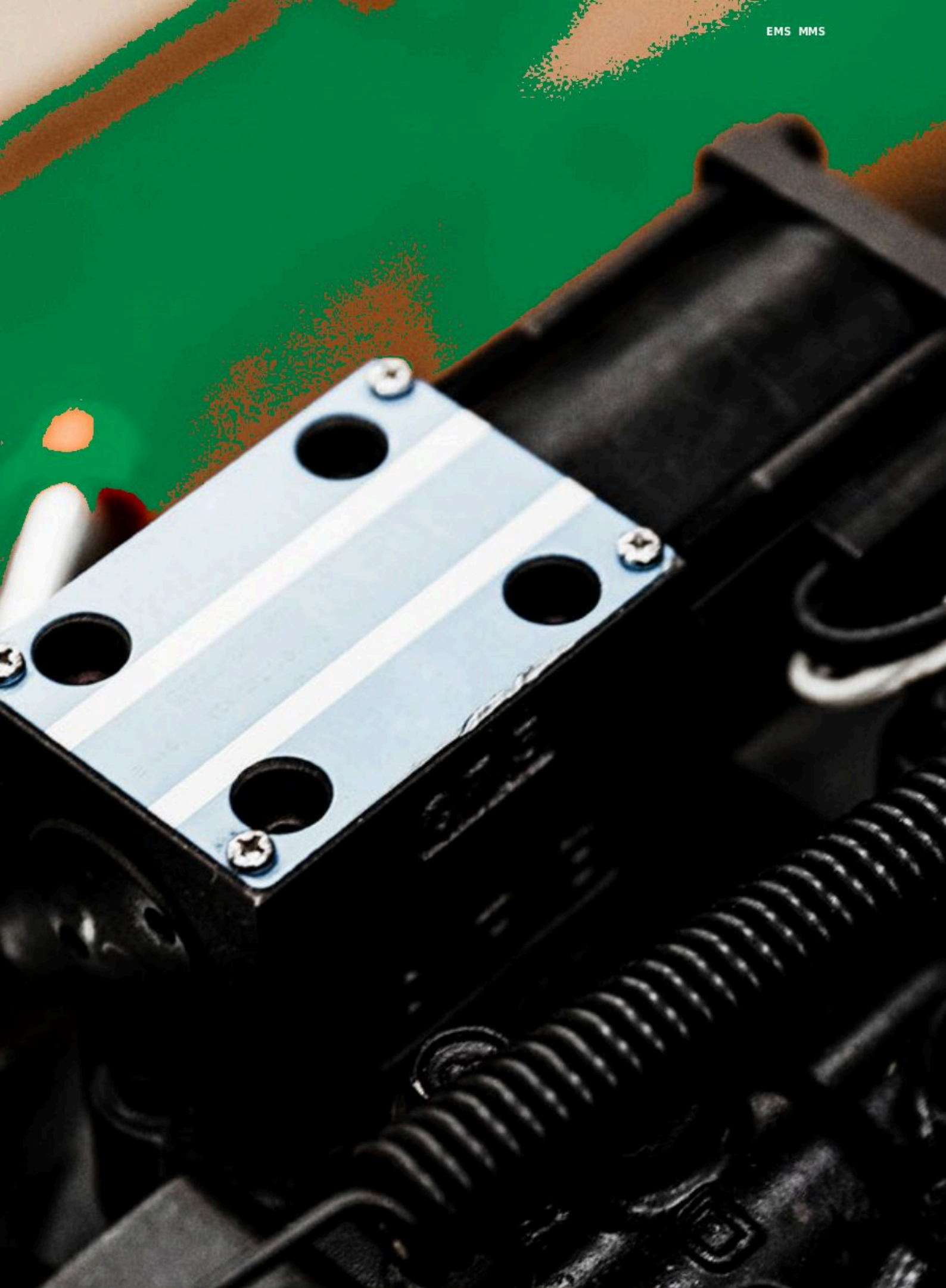
- 5FB10, 15, 18
- 5FB20, 25, 30

USED FOR: TOYOTAREF **MMS-HY-06742** 3-Valve sectionREF **MMS-HY-06743** 3-Valve kit

- 5FBE10, 13, 15, 18

USED FOR: TOYOTAREF **MMS-HY-06744** 3-Valve sectionREF **MMS-HY-06745** 3-Valve kit

- 6FB10, 14, 15, 20, 25, 30





21. **TRANSMISSION VALVES**

TRANSMISSION VALVES



- 12 V
- Used for: Clark, G-Power, OMG, Tailift

REF **MMS-HY-06746**



- 12 V
- Used for: Caterpillar, Mitsubishi, Nissan

REF **MMS-HY-06747**



- 12 V
- Used for: Hyster, Hyundai, Jungheinrich, Yale

REF **MMS-HY-06748**



- 12 V
- Used for: Caterpillar, Mitsubishi, Nissan

REF **MMS-HY-06749**



- 12 V
- Used for: Nissan, TCM

REF **MMS-HY-06750**



- 12 V
- Used for: Nissan, TCM

REF **MMS-HY-06751**

TRANSMISSION VALVES



- 12 V
- Used for: Komatsu, Linde, Still

REF **MMS-HY-06752**



- 24 V
- Used for: Komatsu, Linde, Nissan, Still

REF **MMS-HY-06753**



- 24 V
- Used for: Komatsu, Still

REF **MMS-HY-06754**



- 12 V
- Used for: EP-Forklift, Nissan

REF **MMS-HY-06755**



- 12 V
- Used for: Kalmar, Komatsu, Linde, Still

REF **MMS-HY-06756**



- 24 V
- Used for: Caterpillar, Doosan

REF **MMS-HY-06757**

TRANSMISSION VALVES



- 12 V
- Used for: Doosan, Hyster, Kalmar, Mitsubishi

REF **MMS-HY-06758**

NOTES





22. **SOLENOID VALVE COILS**

SOLENOID VALVE COIL



Do you want to order a solenoid valve coil?

- Please contact your sales advisor if you want to order a solenoid valve coil
- Fill in our technical sheet and send it to us



- Please give us full details of the coil make, the coil details and the complete machine details

MAGNETIC FIELD DETECTOR

Used for testing operating solenoid valves in pneumatic and hydraulic control equipment, testing relays with coils and electrically controlled solenoid valves in all types of vehicles and machines and testing solenoid valves when servicing oil burners

- Easy to use
- Batteries included

REF **MMS-HY-06759**

DIN CONNECTOR

REF **MMS-HY-06760**



23.

CARTRIDGES ELECTROVALVES

CARTRIDGES ELECTROVALVES

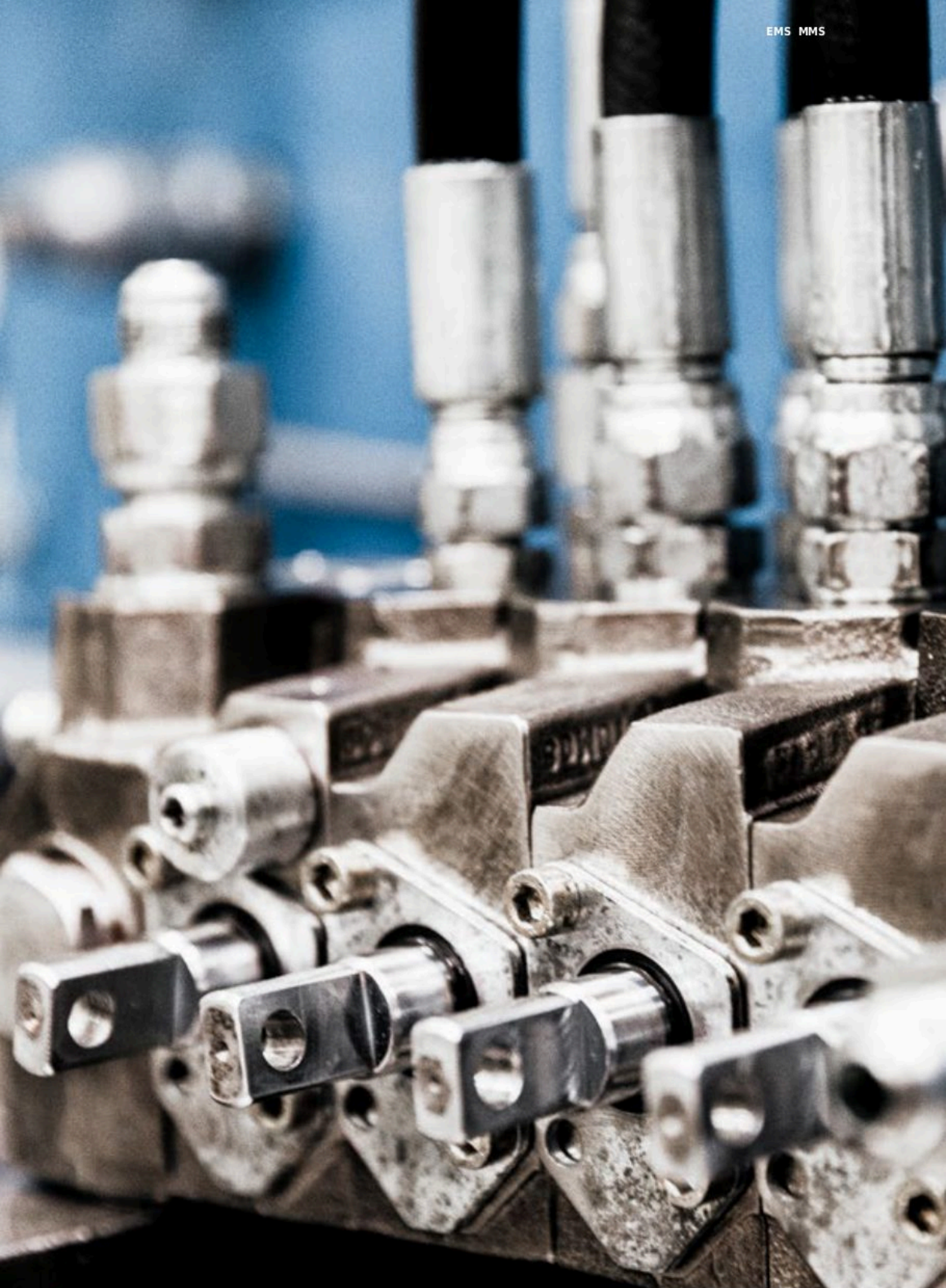


These units have to be ordered by giving full details of the cartridge make, the valve details and the complete machine details.

We can offer you the brands below:

Rexroth, Danfoss, Hydac, Hydraforce, Hydac, Parker, Sun, Walvoil, Winner

NOTES





24. **HYDRAULIC VALVES AND COMPONENTS**

HYDRAULIC VALVES AND COMPONENTS

Valves for direct in-line routing with threaded connections suitable for general use.

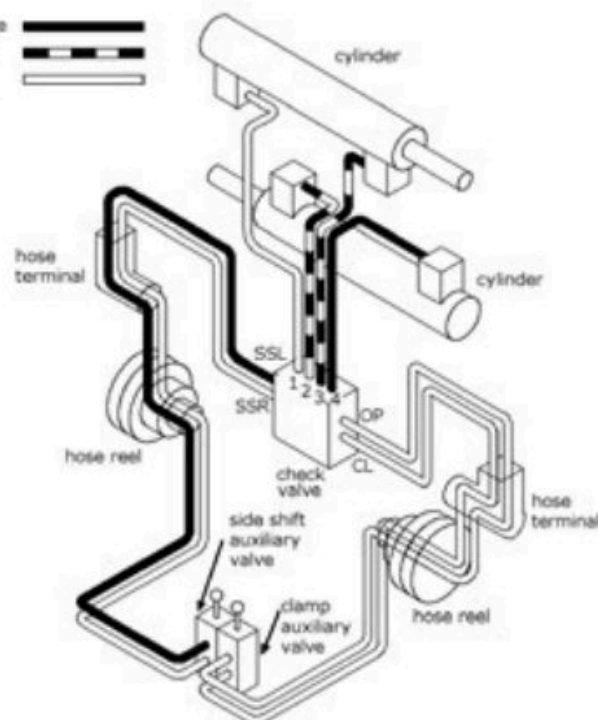
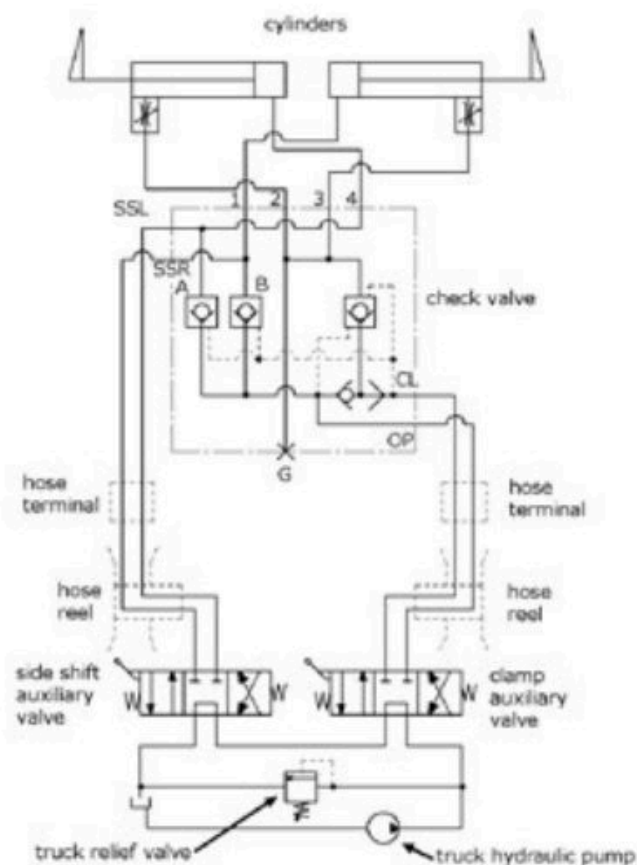
Due to the variety of operating conditions and applications for these products, it is important that you analyse all aspects of your application before selecting or using one.

Through his own analysis and testing, the user is solely responsible for making the final selection of his products and systems. He has to make sure that the environmental requirements of the application are met.

VALVE BLOCK MANIFOLD FOR SIDE SHIFTING CLAMPS



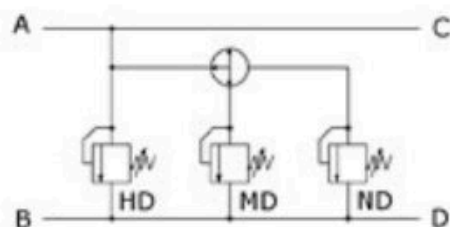
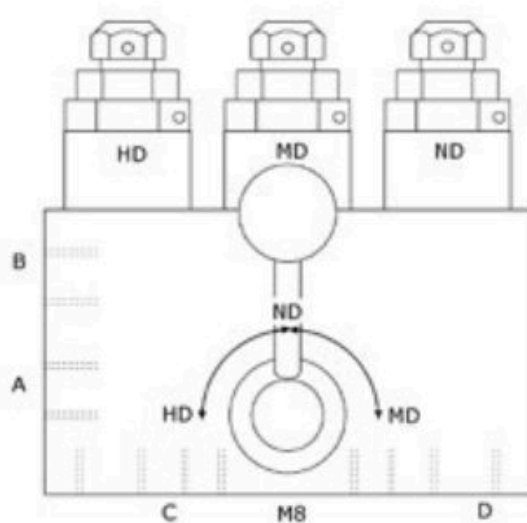
pressure 
return 
slave 



- Connections: CL, OP, 1, 2, 3, 4: 3/4 - 16 UNF
- G, SSL, SSR: 9/16 - 18 UNF
- Pressure: 110 - 160 bar
- Min. flow: 19 l/min
- Regulated flow 38 l/min
- Max. flow: 45 l/min

REFMMS-HY-06761

PRESSURE RELIEF VALVE FOR PAPER CLAMP



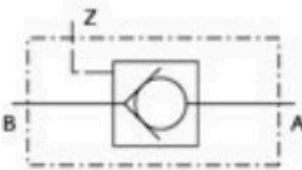
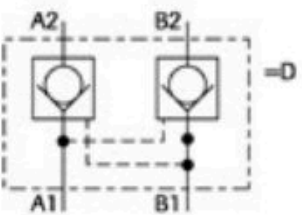
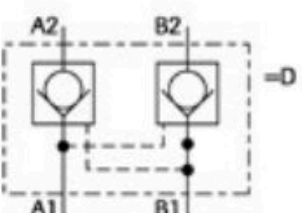
- Mechanical version
- With change-over switch
- 3 pressures
- Up to 200 bar
- Connections: M18 x 1.5

REF **MMS-HY-06762**

HD = 50 - 200 bar
MD = 30 - 180 bar
ND = 0 - 150 bar

HYDRAULIC VALVES AND COMPONENTS

CHECK VALVES

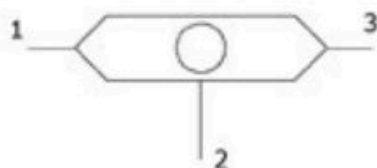
Symbol	Flow	Ports	REF
	16 l/min 30 l/min 50 l/min 90 l/min	G1/4 G3/8 G1/2 G3/4	MMS-HY-06763 MMS-HY-06764 MMS-HY-06765 MMS-HY-06766
		Port A, B = G3/8 Port Z = G1/4	MMS-HY-06767
		Threaded connections = G1/4	MMS-HY-06768
		Threaded connections = G3/8	MMS-HY-06769

SINGLE BALL SHUTTLE VALVES



- With signal at port 2
- Max. pressure 250 bar
- Used for load sensing signal
- Connections: M16 x 1.5

REF [MMS-HY-06770](#)



- Connections: 3 x 1/4 BSP

REF [MMS-HY-06771](#)

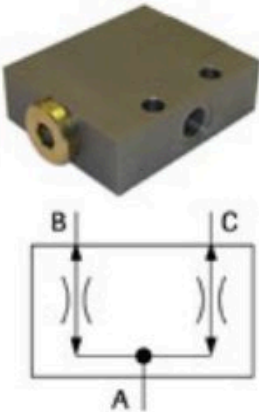
PRESSURE RELIEF VALVES

	Symbol	Flow	Pressure	Ports	REF
		80 l/min	250 bar	P / A / T 3/4 BSP	MMS-HY-06772
		30 l/min	350 bar	P / A / T 1/2 BSP	MMS-HY-06773

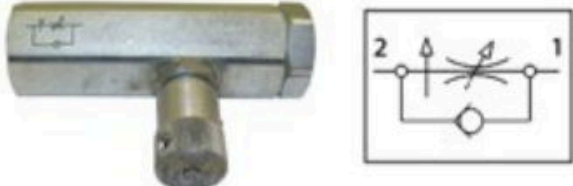
HYDRAULIC VALVES AND COMPONENTS

FLOW CONTROL VALVES

FLOW DIVIDER - COMBINER

	Min. flow rate	Max. flow rate	Ports	Max. pressure range	Dividing	REF
	8 l/min	20 l/min	G3/8	350	50:50	MMS-HY-06774
	13 l/min	25 l/min	G3/8	300	50:50	MMS-HY-06775
	26 l/min	40 l/min	1 x 1/2" BSP	300	50:50	MMS-HY-06776
			+ 2 x 3/8" BSP			

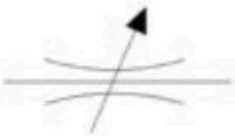
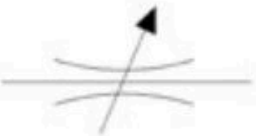
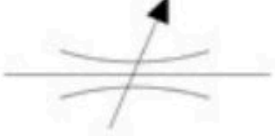
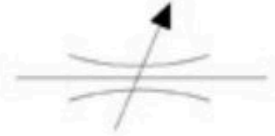
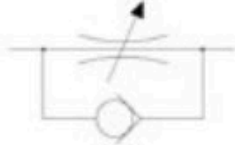
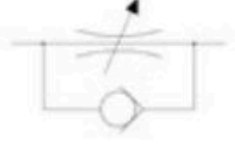
2 WAYS PRESSURE COMPENSATED FLOW VALVE

Symbol	Max flow	P max	Ports	REF
	18 l/min	250 bar	3/8" BSP	MMS-HY-06777
	33 l/min	250 bar	1/2" BSP	MMS-HY-06778

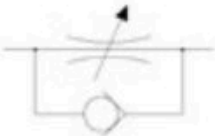
3 WAYS, PRESSURE COMPENSATED FLOW VALVE

Symbol	Regulated flow	Max flow	P max	Ports	REF
	0 - 25 l/min	40 l/min	300 bar	3/8" BSP	MMS-HY-06779
	2 - 50 l/min	90 l/min	300 bar	1 port: 3/4" BSP 2 ports: 1/2" BSP	MMS-HY-06780

THROTTLE VALVES

	Symbol	Flow	Pressure	Ports	REF
TYPES WITHOUT BYPASS					
		25 l/min	210 bar	1/4 BSP	MMS-HY-06781
		30 l/min	400 bar	3/8 BSP	MMS-HY-06782
		40 l/min	200 bar	1/2 BSP	MMS-HY-06783
		80 l/min	250 bar	3/4 BSP	MMS-HY-06784
		200 l/min	320 bar	1 BSP	MMS-HY-06785
	Symbol	Flow	Pressure	Ports	REF
TYPES WITH BYPASS					
		15 l/min	400 bar	1/4 BSP	MMS-HY-06786
		30 l/min	200 bar	3/8 BSP	MMS-HY-06787
		40 l/min	200 bar	1/2 BSP	MMS-HY-06788
		60 l/min	345 bar	1/2 BSP	MMS-HY-06789

THROTTLE VALVES

	Symbol	Flow	Pressure	Ports	REF
		95 l/min	210 bar	3/4 BSP	MMS-HY-06790

DIRECTIONAL VALVES

Voltage

REF



For all the directional
valves below:

- Type NG-6
- 350 Bar
- 70 L/min.



12 VDC
24 VDC

MMS-HY-06791
MMS-HY-06792



12 VDC
24 VDC

MMS-HY-06793
MMS-HY-06794



12 VDC
24 VDC

MMS-HY-06795
MMS-HY-06796



12 VDC
24 VDC

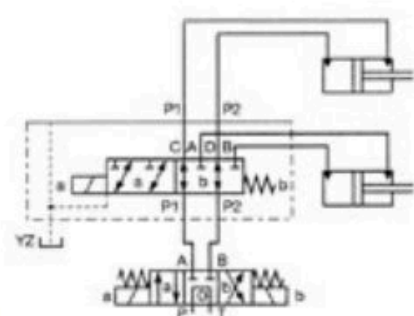
MMS-HY-06797
MMS-HY-06798

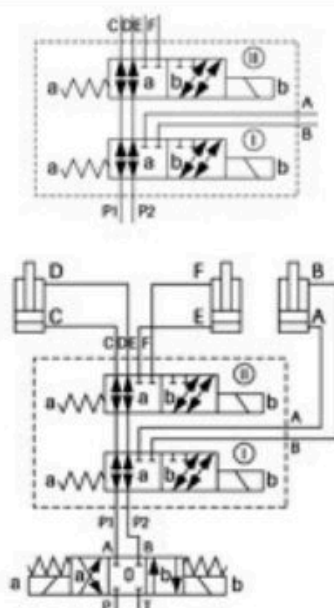


12 VDC
24 VDC

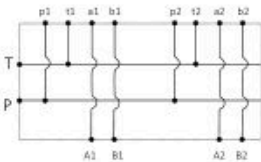
MMS-HY-06799
MMS-HY-06800

SELECTOR VALVES

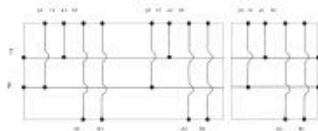
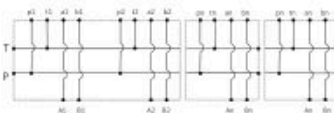
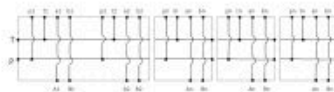
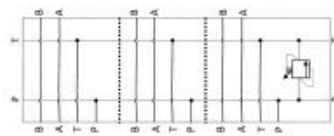
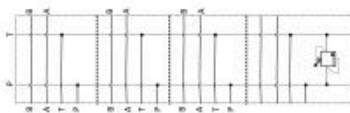
Symbol	Voltage	Ports	REF	
ELECTRICAL VALVE TO DOUBLE THE WORKING FUNCTIONS ON ONE LEVER (UNIVERSAL APPLICATION / 6/2 VALVES)				
		12 V	G3/8	MMS-HY-06801
	24 V	G3/8	MMS-HY-06802	
	48 V	G3/8	MMS-HY-06803	
	80 V	G3/8	MMS-HY-06804	
	Mounting and lever kit			MMS-HY-06805

Symbol	Voltage	Ports	REF	
ELECTRICAL VALVE TO DOUBLE THE WORKING FUNCTIONS ON ONE LEVER (UNIVERSAL APPLICATION / 8/3 VALVES)				
		12 VDC	G3/8	MMS-HY-06806
		24 VDC	G3/8	MMS-HY-06807
		48 VDC	G3/8	MMS-HY-06808

VALVES

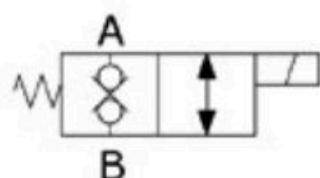
Symbol	Description	REF
	Din Connector	MMS-HY-06760
	Base Plate NG6 CETOP 3	MMS-HY-06809
	Cover plate NG6 CETOP 3	MMS-HY-06810
	M5 x 30 inbus	MMS-HY-06811
 	Manifold 2 elements blok	MMS-HY-06812

VALVES

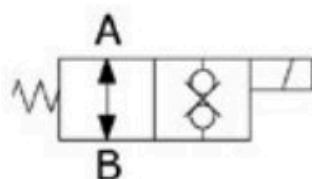
	Symbol	Description	REF
		Manifold 3 elements Blok	MMS-HY-06813
		Manifold 4 elements Blok	MMS-HY-06814
		Manifold 5 elements Blok	MMS-HY-06815
		Manifold 3 elements Blok with pressure relief valve	MMS-HY-06816
		Manifold 4 elements Blok with pressure relief valve	MMS-HY-06817

SOLENOID OPERATED CARTRIDGE VALVES

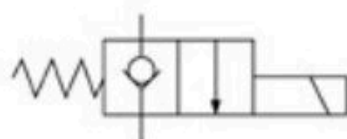
Symbol	Voltage	Ports	Max flow l/min	P max bar	REF
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**1) POPPET 2-WAY DOUBLE LOCK NORMALLY CLOSED**

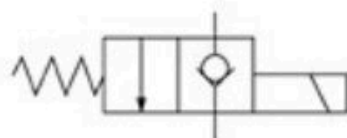
12 VDC	G 1/2	70	350	MMS-HY-06818
24 VDC	G 1/2	70	350	MMS-HY-06819

2) POPPET 2-WAY DOUBLE LOCK NORMALLY OPEN

12 VDC	G 1/2	70	350	MMS-HY-06820
24 VDC	G 1/2	70	350	MMS-HY-06821

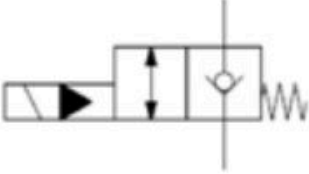
3) POPPET TYPE, NORMALLY CLOSED

12 VDC	G 3/8	23	207	MMS-HY-06822
24 VDC	G 3/8	23	207	MMS-HY-06823

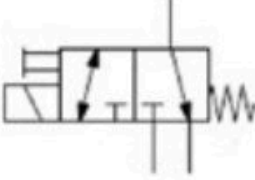
4) POPPET TYPE, NORMALLY OPEN

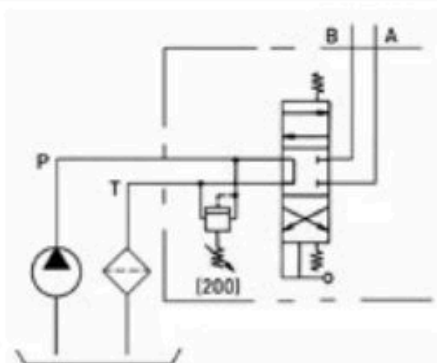
12 VDC	G 3/8	23	207	MMS-HY-06824
24 VDC	G 3/8	23	207	MMS-HY-06825

SOLENOID OPERATED CARTRIDGE VALVES

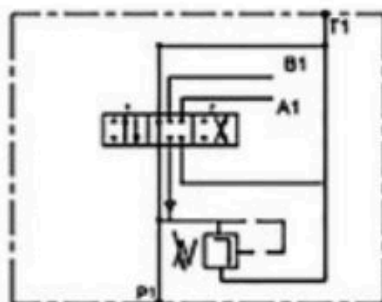
Symbol	Voltage	Ports	Max flow l/min	P max bar	REF
5) POPPET-TYPE, NORMALLY CLOSED, BI-DIRECTIONAL FLOW ALLOWED					
	12 VDC	G 3/8	23	207	MMS-HY-06826
	24 VDC	G 3/8	23	207	MMS-HY-06827

6) SPOOL-TYPE, 3-WAY

	12 VDC	G 3/8	15	207	MMS-HY-06828
	24 VDC	G 3/8	15	207	MMS-HY-06829

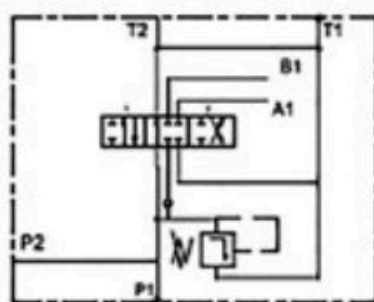
HYDRAULIC DISTRIBUTOR

- Ports: G 3/8 BSP
- Max flow: 35 l/min

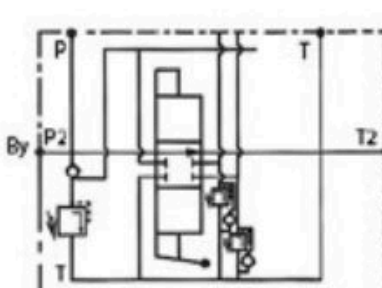
REF **MMS-HY-06830****HYDRAULIC DISTRIBUTORS**

- Max flow: 35 l/min

Ports	Type	REF
G 3/8 BSP	1 way	MMS-HY-06831
G 1/2 BSP	2 way	MMS-HY-06832
G 1/2 BSP	3 way	MMS-HY-06833
G 1/2 BSP	4 way	MMS-HY-06834

HYDRAULIC DISTRIBUTOR WITH MICROSWITCH

- Ports: 3/8 BSP
- Max flow: 35 l/min

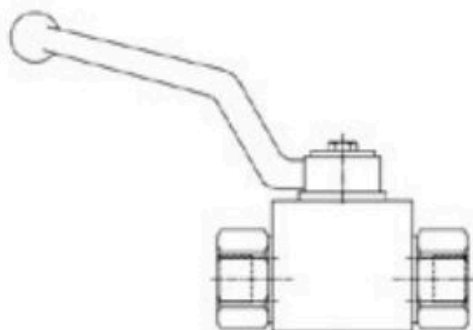
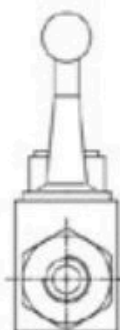
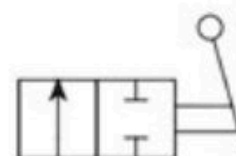
REF **MMS-HY-06835****HYDRAULIC DISTRIBUTOR**

- Connections: P, A, B = G 3/4 BSP
- T = G1
- Inclusive carry over plug G1
- Max flow: 120 l/min
- P max: 250 bar

REF **MMS-HY-06836**

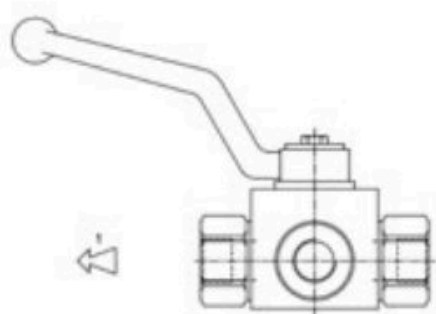
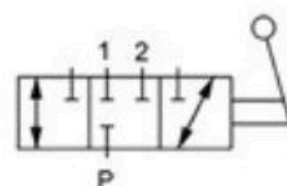
HYDRAULIC VALVES AND COMPONENTS

2 WAYS BALL VALVES

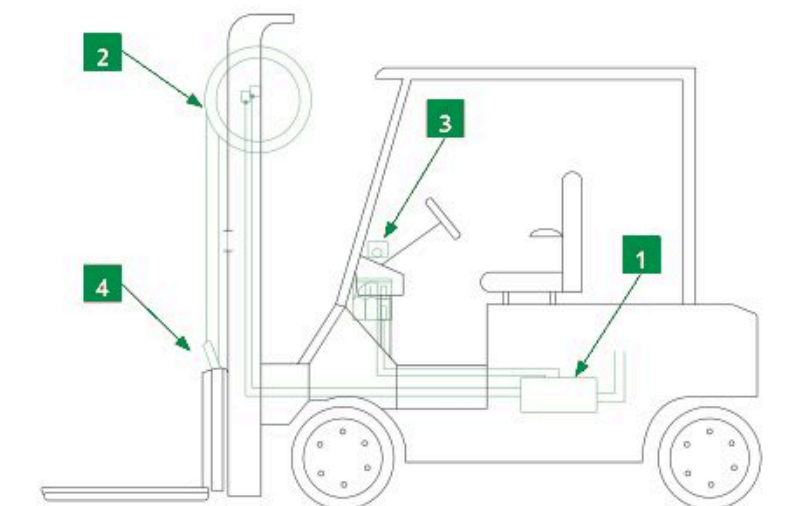


Ports	REF
1" BSP	MMS-HY-06837
3/4" BSP	MMS-HY-06838
1/2" BSP	MMS-HY-06839
3/8" BSP	MMS-HY-06840
1/4" BSP	MMS-HY-06841

3 WAYS BALL VALVES



Ports	REF
1" BSP	MMS-HY-06842
3/4" BSP	MMS-HY-06843
1/2" BSP	MMS-HY-06844
3/8" BSP	MMS-HY-06845

UNIVERSAL KIT TO ADD AN EXTRA FUNCTION ON YOUR FORKLIFT WITH HYDRAULIC HOSE REEL


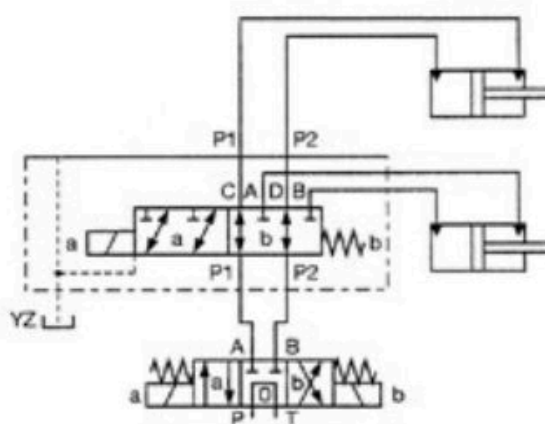
- 1 6/2 valve
- 2 Hose reel
- 3 Switch
- 4 Swivel

1) 6/2 VALVE
3/8 BSP

Type	REF
6/2 valve 12 V	MMS-HY-06801
6/2 valve 24 V	MMS-HY-06802
6/2 valve 48 V	MMS-HY-06803
6/2 valve 80 V	MMS-HY-06804

1/2 BSP

Type	REF
6/2 valve 12 V	MMS-HY-06846
6/2 valve 24 V	MMS-HY-06847
6/2 valve 48 V	MMS-HY-06848
6/2 valve 80 V	MMS-HY-06849



HYDRAULIC VALVES AND COMPONENTS

UNIVERSAL KIT TO ADD AN EXTRA FUNCTION ON YOUR FORKLIFT

2) HOSE REEL AND BRACKET



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	280 mm	3.91 m	Double synflex 1/4"	MMS-HY-06257
LH**	280 mm	3.91 m	Double synflex 1/4"	MMS-HY-06258

- 2 REF MMS-HY-06259 RH reel (without hoses)*
 2 REF MMS-HY-06260 LH reel (without hoses)**
 3 REF MMS-HY-06261 Hose, end connection 7/16" JIC*/**
 4 REF MMS-HY-03481 Hose end connection 7/16" JIC*/** (4 required)
 5 REF MMS-HY-06262 Mounting bracket*/**

* Max lifting height: 6.3 m (duplex mast), 4.8 m (triplex mast)
 * Kit included for RH, ** Kit included for LH



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	330 mm	4.57 m	Double synflex 3/8"	MMS-HY-06263
LH**	330 mm	4.57 m	Double synflex 3/8"	MMS-HY-06264

- 2 REF MMS-HY-06265 RH reel (without hoses)*
 2 REF MMS-HY-06266 LH reel (without hoses)**
 3 REF MMS-HY-06267 Hose, end connection 9/16" JIC*/**
 4 REF MMS-HY-03481 Hose end connection 9/16" JIC*/** (4 required)
 5 REF MMS-HY-06268 Mounting bracket*/**

* Max lifting height: 7.1 m (duplex mast), 5.5 m (triplex mast)
 * Kit included for RH, ** Kit included for LH



Type	Reel diameter	Max hose length	Hose type	REF
1 Complete kit				
RH*	410 mm	7.62 m	Double synflex 3/8"	MMS-HY-06275
LH**	410 mm	7.62 m	Double synflex 3/8"	MMS-HY-06276

- 2 REF MMS-HY-06277 RH reel (without hoses)*
 2 REF MMS-HY-06278 LH reel (without hoses)**
 3 REF MMS-HY-06279 Hose, end connection 9/16" JIC*/**
 4 REF MMS-HY-03481 Hose end connection 9/16" JIC*/** (4 required)
 5 REF MMS-HY-06280 Mounting bracket*/**

* Max lifting height: 13 m (duplex mast), 9.81 m (triplex mast)
 * Kit included for RH, ** Kit included for LH



Hose reel bracket right
 REF MMS-HY-06281



Hose reel bracket left
 REF MMS-HY-06280

UNIVERSAL KIT TO ADD AN EXTRA FUNCTION ON YOUR FORKLIFT**3) SWITCH**REF **MMS-HY-06850****4) SWIVEL**REF **MMS-HY-06322**



A close-up photograph of a hydraulic filter, showing its cylindrical body and internal components. The filter is partially obscured by a large green diagonal shape that covers the right side of the page.

25. **HYDRAULIC FILTERS**

HYDRAULIC FILTERS



At ^{EMS / MMS} we have an extensive range of hydraulic filters and accessories. Next to our TotalSource brand we also supply filters from hydraulic brands like **Argo Hytos, Donaldson, Hydac, Parker and others.**



Do you prefer looking up the references online? Then go to **our online shop** and have a look in **MyPartsFinder** to find your hydraulic filter via machine information.



NOTES





26. **ACCUMULATORS**

HYDRAULIC ACCUMULATORS / UNIVERSAL APPLICATION



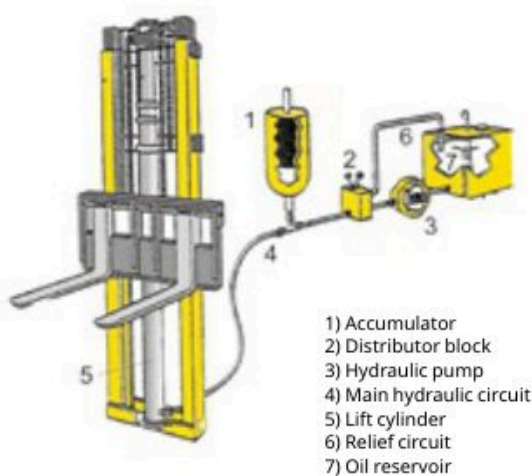
No accumulator

- Faster driver-fatigue
- Loss of control of the vehicle
- Difficult handling of the lift lever
- Damage to the goods
- Damage and consequent downtime due to vibrations



With accumulator

- Less driver-fatigue
- Improved vehicle handling
- Easier operation of the lift lever
- Transported goods are delivered undamaged
- Decreased downtime of the truck



We recommend following capacity for our hydraulic

Forklift capacity	Accumulator capacity
500 kg > 1 T	0.5 l
+1 T > 3 T	0.75 l
+3 T > 5 T	1 l
+5 T > 12 T	2.5 - 2.8 l

For specific applications, please contact our sales department.

* **Pre-charged** accumulators are ready for immediate use, but **cannot be shipped by air**.

When the goods have to be shipped by air, it is necessary to order the non-pre-charged execution.

These should be charged before use for proper operation.

Charge pressure is 1/3 of average working pressure of the truck.

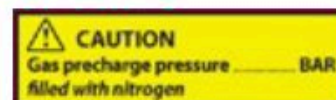
Sticker on your accumulator

Please take note of a similar sticker on your accumulator as this one and let us know the precharge pressure.

If you are not able to locate this, on the accumulator itself there is an engraving stating "P0 = x bar".

This information will reduce (search time).

- Fill kit accumulators REF **MMS-HY-06851**
- The possibility is there to get most accumulators to the desired pressure.
- It is important that you pass on the information on the old battery with the correct pre-charge pressure



ACCUMULATORS

Type A: bladder



Type B: diaphragm welded



Type C: diaphragm screwed



Type D: piston



We can supply all requested brands: Hydac, Hydro Leduc, Fox, Integral, Parker, Rexroth, Saip, ...

You can also use
our technical sheet:



ACCUMULATOR: 500 KG > 1 T (0.5 L)



Connection: M18 x 1.5 internal

Pre-charged* REF [MMS-HY-06863](#)
 Not pre-charged REF [MMS-HY-06864](#)
 Bracket REF [MMS-HY-06865](#)

ACCUMULATOR: + 1 T > 2 T (0.75 L)



Connection: M33 x 1.5 external G1/2" internal

Pre-charged* REF [MMS-HY-06866](#)
 Not pre-charged REF [MMS-HY-06867](#)
 Bracket REF [MMS-HY-06857](#)

ACCUMULATOR: + 2 T > 3 T (0.75 L)



Connection: M33 x 1.5 external G1/2" internal

Pre-charged* REF [MMS-HY-06852](#)
 Not pre-charged REF [MMS-HY-06853](#)
 Bracket REF [MMS-HY-06854](#)

ACCUMULATOR: + 3 T > 5 T (1 L)



Connection: 3/4 BSP-14 internal

Pre-charged* REF [MMS-HY-06855](#)
 Not pre-charged REF [MMS-HY-06856](#)
 Bracket REF [MMS-HY-06857](#)

ACCUMULATOR: + 5 T > 8 T (2.8 L)



Connection: M22 x 1.5 internal

Pre-charged* REF [MMS-HY-06858](#)
 Not pre-charged REF [MMS-HY-06859](#)
 Bracket REF [MMS-HY-06860](#)

ACCUMULATOR: + 8 T > 12 T (2.5 L)



Connection: G1" 1/4 internal

Pre-charged* REF [MMS-HY-06861](#)
 Not pre-charged REF [MMS-HY-06862](#)
 Bracket REF [MMS-HY-06857](#)

DIAGNOSTIC SERVICE KITS**UNIVERSAL ACCUMULATOR PRESSURE CONTROL KIT**

This kit enables you to check or to change the pressure of a Hydraulic accumulator. Discharging the accumulator is also possible with this kit. Compatible with all hydraulic accumulator connections. All this comes in a durable, lightweight case.

Contents:

- Charging valve
- 1 Gauge 0 - 25 bar
- 1 Gauge 0 - 250 bar
- 5 Most used accumulator connections (3/4 BSP; M16 x 2; M28 x1.5; 5/8 UNF; 7/8 UNF)
- Adapters to connect French and German nitrogen bottles
- 2.5 m hose to connect the valve to bottle

REF **MMS-HY-06448**



27.

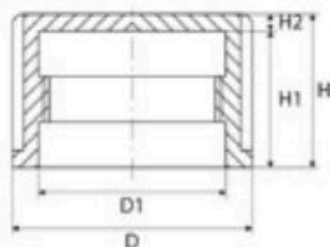
PROTECTIVE COVERS

PROTECTIVE COVERS



You can also fill in our technical sheet to make a selection

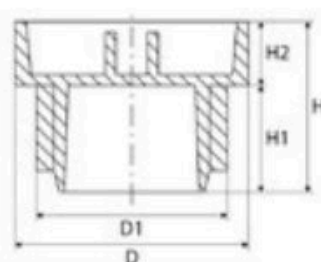


TYPE A

Thread	Metric/inch	Imperial pitch	Pitch	D mm	D1 mm	H mm	H1 mm	H2 mm	REF
M8	M		1	12	8	9	8	1	MMS-HY-06868
M8	M		1.25	12	8	9	8	1	MMS-HY-06869
M10	M		1	14	10	9	8	1	MMS-HY-06870
M10	M		1.5	14	10	9	8	1	MMS-HY-06871
M12	M		1	16	12	13.5	12	1.5	MMS-HY-06872
M12	M		1.5	16	12	13.5	12	1.5	MMS-HY-06873
M12	M		1.75	16	12	13.5	12	1.5	MMS-HY-06874
M14	M		1.5	18	14	13.5	12	1.5	MMS-HY-06875
M14	M		2	18	14	13.5	12	1.5	MMS-HY-06876
M16	M		1.5	21	16	13.5	12	1.5	MMS-HY-06877
M16	M		2	21	16	13.5	12	1.5	MMS-HY-06878
M18	M		1.5	22	18	13.5	12	1.5	MMS-HY-06879
M18	M		2	22	18	13.5	12	1.5	MMS-HY-06880
M18	M		2.5	22	18	13.5	12	1.5	MMS-HY-06881
M20	M		1.5	25	20	15.5	14	1.5	MMS-HY-06882
M20	M		2	25	20	15.5	14	1.5	MMS-HY-06883
M20	M		2.5	25	20	15.5	14	1.5	MMS-HY-06884
M22	M		1.5	28	22	15.5	14	1.5	MMS-HY-06885
M22	M		2	28	22	15.5	14	1.5	MMS-HY-06886
M22	M		2.5	28	22	15.5	14	1.5	MMS-HY-06887
M23	M		1.5	29	23	23	22	1	MMS-HY-06888
M24	M		1.5	30	24	15.5	14	1.5	MMS-HY-06889
M24	M		3	32	24	16	14	2	MMS-HY-06890
M25	M		1.5	33	25	16	14	2	MMS-HY-06891
M26	M		1.5	34	26	13.5	11	2.5	MMS-HY-06892
M27	M		3	35	27	16	14	2	MMS-HY-06893
M28	M		1.5	34.5	28	30	28	2	MMS-HY-06894
M30	M		1.5	36	30	15.5	14	1.5	MMS-HY-06895
M30	M		2	38	30	16	14	2	MMS-HY-06896
M30	M		3.5	38	30	16	14	2	MMS-HY-06897
M36	M		1.5	44	36	19	17	2	MMS-HY-06898
M36	M		2	44	36	19	17	2	MMS-HY-06899
M42	M		2	50	42	17	15	2	MMS-HY-06900
M45	M		1.5	53	45	17	15	2	MMS-HY-06901
M45	M		2	53	45	17	15	2	MMS-HY-06902
M52	M		2	60	52	17	15	2	MMS-HY-06903
M55	M		1.5	63	55	18	16	2	MMS-HY-06904
1/4 UNF	I	28		12	6.35	9	8	1	MMS-HY-06905
5/16 UNF	I	24		12	7.94	9	8	1	MMS-HY-06906
7/16 UNF	I	20		15	11.11	13.5	12	1.5	MMS-HY-06907
1/2 UNF	I	20		18	12.7	16.5	15	1.5	MMS-HY-06908
9/16 UNEF	I	24		18	14.29	13	12	1	MMS-HY-06909
9/16 UNF	I	18		18	14.29	20	18	2	MMS-HY-06910

TYPE A

Thread	Metric/inch	Imperial pitch	Pitch	D mm	D1 mm	H mm	H1 mm	H2 mm	REF
5/8 UNF	I	18		19.3	15.88	13.5	12	1.5	MMS-HY-06911
3/4 UNF	I	16		24	19.05	15	14.2	0.8	MMS-HY-06912
7/8 UNF	I	14		27	22.23	19.5	18	1.5	MMS-HY-06913
15/16 UNEF	I	20		29	23.81	21.5	20	1.5	MMS-HY-06914
1 1/16" UNF	I	12		34.5	26.99	16	14	2	MMS-HY-06915
1 1/16" UNEF	I	16		34.5	26.99	25	23	2	MMS-HY-06916
1 1/8" UNF	I	12		60	53.98	19	17	2	MMS-HY-06917
1 1/8" UNEF	I	16		60	53.98	20	18	2	MMS-HY-06918
1 3/16" UNEF	I	20		38	30.16	16	14	2	MMS-HY-06919
1 1/4" UNF	I	12		38	31.75	16	14	2	MMS-HY-06920
1 1/4" UNEF	I	14		33	25.4	16	14	2	MMS-HY-06921
1 5/16" UNF	I	12		40	33.34	16	14	2	MMS-HY-06922
1 3/8" UNF	I	16		69	60.32	20	18	2	MMS-HY-06923
1 7/16" UNEF	I	18		44	36.51	26	24	2	MMS-HY-06924
1 5/8" UNF	I	12		50	41.29	19	17	2	MMS-HY-06925
1 5/8" UNEF	I	16		50	41.29	19	17	2	MMS-HY-06926
1 3/4" UNEF	I	16		53	44.45	19	17	2	MMS-HY-06927
1 13/16" UNF	I	16		53	46.04	19	17	2	MMS-HY-06928
1 7/8" UNF	I	12		55	47.63	19	17	2	MMS-HY-06929
1 7/8" UNEF	I	18		55	47.63	19	17	2	MMS-HY-06930
2 1/4" UNF	I	12		66	57.15	20	18	2	MMS-HY-06931
2 1/2" UNF	I	12		72	63.5	20	18	2	MMS-HY-06932
2 1/2" UNEF	I	16		72	63.5	20	18	2	MMS-HY-06933
G1/8	I	28		14	8.57	9	8		MMS-HY-06934
G1/4	I	19		18	11.44	13.5	12		MMS-HY-06935
G3/8	I	19		21	14.95	13.5	12		MMS-HY-06936
G1/2	I	14		25	18.63	15.5	14		MMS-HY-06937
G5/8	I	14		28	20.56	15.5	14		MMS-HY-06938
G3/4	I	14		32	24.12	16	14		MMS-HY-06939
G1	I	11		39	30.3	16	14		MMS-HY-06940
G1 1/4"	I	11		47.7	38.95	19.7	17.7		MMS-HY-06941
G1 1/2"	I	11		56	44.85	19.7	17		MMS-HY-06942
G2	I	11		68	56.67	20	18		MMS-HY-06943
G2 1/2"	I	11		80.9	72.23	20	18		MMS-HY-06944

TYPE B

Thread	Metric/inch	Imperial pitch	Pitch	D mm	D1 mm	H mm	H1 mm	H2 mm	REF
M6	M	0.75		12	6	12	7	5	MMS-HY-06945
M6	M	1		12	6	12	7	5	MMS-HY-06946
M8	M	1		12	8	12	7	5	MMS-HY-06947
M8	M	1.25		12	8	12	7	5	MMS-HY-06948
M10	M	1		14	10	14	9	5	MMS-HY-06949
M10	M	1.5		14	10	14	9	5	MMS-HY-06950
M12	M	1		16	12	14	9	5	MMS-HY-06951
M12	M	1.5		16	12	14	9	5	MMS-HY-06952
M12	M	1.75		16	12	14	9	5	MMS-HY-06953
M14	M	1		19	14	14	9	5	MMS-HY-06954
M14	M	1.5		19	14	14	9	5	MMS-HY-06955
M14	M	2		19	14	14	9	5	MMS-HY-06956
M16	M	1.5		21	16	16	10	6	MMS-HY-06957
M16	M	2		21	16	16	10	6	MMS-HY-06958
M18	M	1.5		24	18	16	10	6	MMS-HY-06959
M18	M	2		24			10	6	MMS-HY-06960
M18	M	2.5		24	18	16	10	6	MMS-HY-06961
M20	M	1.5		26	20	18	12	6	MMS-HY-06962
M20	M	2		26	20	18	12	6	MMS-HY-06963
M20	M	2.5		26	20	18	12	6	MMS-HY-06964
M22	M	1.5		28	22	18	12	6	MMS-HY-06965
M22	M	2		28			12	6	MMS-HY-06966
M24	M	1.5		31.5	24	18	10	8	MMS-HY-06967
M24	M	2		31.5	24	18	10	8	MMS-HY-06968
M24	M	3		32	24	18	10	8	MMS-HY-06969
M26	M	1.5		31.5	26	20	12	8	MMS-HY-06970
M27	M	2		32			12	8	MMS-HY-06971
M30	M	1.5		36	30	20	12	8	MMS-HY-06972
M30	M	2		36	30	20	12	8	MMS-HY-06973
M33	M	2		39	33	23	13	10	MMS-HY-06974
M34	M	1.5		42			13	10	MMS-HY-06975
M36	M	1.5		44	36	23	13	10	MMS-HY-06976
M36	M	2		44	36	23	13	10	MMS-HY-06977
M42	M	1.5		52	42	25	15	10	MMS-HY-06978
M42	M	2		52	42	25	15	10	MMS-HY-06979
M45	M	1.5		55	45	25	15	10	MMS-HY-06980
M45	M	2		55	45	25	15	10	MMS-HY-06981
M52	M	1.5		60	52	25	15	10	MMS-HY-06982
M52	M	2		60	52	25	15	10	MMS-HY-06983
1/4 UNF	I		28	12			7	5	MMS-HY-06984
3/8 UNF	I		24	14	9.5	30	18	12	MMS-HY-06985
7/16 UNF	I		20	16	11.11	14	9	5	MMS-HY-06986

PROTECTIVE COVERS

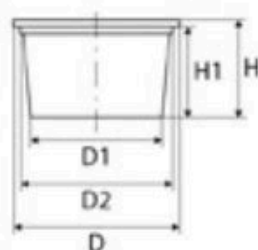
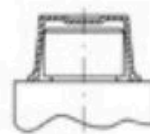
TYPE B

Thread	Metric/inch	Imperial pitch	Pitch	D mm	D1 mm	H mm	H1 mm	H2 mm	REF
1/2 UNF	I		20	16	12.7	14	9	5	MMS-HY-06987
9/16 UNEF	I		24	19	14.29	14	9	5	MMS-HY-06988
9/16 UNF	I		18	19	14.29	14	9	5	MMS-HY-06989
5/8 UNF	I		18	21	15.88	14	9	5	MMS-HY-06990
5/8 UNEF	I		24	21	15.88	16	10	6	MMS-HY-06991
3/4 UNEF	I		20	24	19.05	30	18	12	MMS-HY-06992
3/4 UNF	I		16	26	19.05	16	10	6	MMS-HY-06993
7/8 UNEF	I		14	28	22.23	18	12	6	MMS-HY-06994
7/8 UNF	I		9	28	22.23	22	16	6	MMS-HY-06995
15/16 UNEF	I		20	32	23.81	18	12	6	MMS-HY-06996
1" UNS	I		16	32	25.4	18	10	8	MMS-HY-06997
1" UNEF	I		14	32	25.4	18	12	6	MMS-HY-06998
1 1/16" UN	I		16	32	26.99	20	12	8	MMS-HY-06999
1 1/16" UN	I		12	32	26.99	30	18	12	MMS-HY-07000
1 3/16" UNEF	I		20	36	30.16	18	10	8	MMS-HY-07001
1 1/4" UNF	I		12	36	31.75	20	12	8	MMS-HY-07002
1 5/16" UNF	I		12	42	33.34	20	12	8	MMS-HY-07003
1 3/8" UNEF	I		18	42	34.93	20	12	8	MMS-HY-07004
1 7/16" UNEF	I		18	44	36.51	20	12	8	MMS-HY-07005
1 5/8" UNF	I		12	52	41.29	23	13	10	MMS-HY-07006
1 5/8" UNEF	I		16	52	41.29	23	13	10	MMS-HY-07007
1 3/4" UNEF	I		16	55	44.45	23	13	10	MMS-HY-07008
1 13/16" UNEF	I		16	55	46.04	25	15	10	MMS-HY-07009
1 7/8" UNF	I		12	57	47.63	25	15	10	MMS-HY-07010
1 7/8" UNS	I		18	57	47.63	25	15	10	MMS-HY-07011
2 1/8" UNF	I		12	62	53.98	25	15	10	MMS-HY-07012
2 1/8" UNEF	I		16	62	53.98	25	15	10	MMS-HY-07013
2 1/4" UNF	I		12	65	57.15	25	15	10	MMS-HY-07014
2 3/8" UNEF	I		16	72	60.32	25	15	10	MMS-HY-07015
2 1/2" UNF	I		12	72	63.5	25	15	10	MMS-HY-07016
2 1/2" UNEF	I		16	72	63.5	25	15	10	MMS-HY-07017
G1/8	G		28	14			9	5	MMS-HY-07018
G1/4	G		19	19			9	5	MMS-HY-07019
G3/8	G		19	21			10	6	MMS-HY-07020
G1/2	G		14	26			12	6	MMS-HY-07021
G5/8	G		14	28			12	6	MMS-HY-07022
G3/4	G		14	31.5			12	8	MMS-HY-07023
1/4 NPTF	I		18	19	6.35	12	7	5	MMS-HY-07024

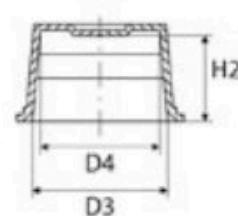
TYPE C



Inside use



Outside use



D mm	D1 mm	D2 mm	D3 mm	D4 mm	H1 mm	H2 mm	REF
10	4.4	6.15	4.55	2.8	10	10.8	MMS-HY-07025
11	6	7.75	6.15	4.4	10	10.8	MMS-HY-07026
11	8.1	9.2	7.8	6.6	7.2		MMS-HY-07027
11	9	7.4			9.5	10.5	MMS-HY-07028
12	8.3	6			16	17	MMS-HY-07029
12	8.9	5.8			9.5	10.5	MMS-HY-07030
12	9.8	11	9.6	8.4	7.2		MMS-HY-07031
13	7.2	5.2			9	10.5	MMS-HY-07032
13	7.6	9.35	7.75	6	10	10	MMS-HY-07033
14	8.4	10.15	8.55	6.8	10	10	MMS-HY-07034
14	9.2	10.95	9.25	7.5	10	10	MMS-HY-07035
14	10.6	11.6	10	8.8	7		MMS-HY-07036
15	9.9	11.65	10.05	8.3	10	10	MMS-HY-07037
15	11.4	12.4	11.2	10	7		MMS-HY-07038
15	12.8	11.3			9.5	10.5	MMS-HY-07039
16	10.3	8			15.5	16.5	MMS-HY-07040
16	10.6	12.35	10.75	9	10	10	MMS-HY-07041
16	10.8	8			15.8	17	MMS-HY-07042
16	13.3	14.4	12.8	10	7		MMS-HY-07043
17	11.3	13	11.2	9.5	11.3	10	MMS-HY-07044
17	14	15.1	13.6	12.4	7.2		MMS-HY-07045
17	14.7	11.7			9.5	10.5	MMS-HY-07046
18	12	14.1	12.5	10.4	12	12	MMS-HY-07047
18	12	9.8			10	11.2	MMS-HY-07048
18	12.5	14.6	13.3	11.2	12	12	MMS-HY-07049
18	13.4	11.5			10	10	MMS-HY-07050
18	14.6	15.6	14.5	13.3	7.2		MMS-HY-07051
18	15.3	16.4	14.8	13.6	7		MMS-HY-07052
19	13.5	15.6	14	11.9	12	12	MMS-HY-07053
19	14	16.1	14.5	12.4	12	12	MMS-HY-07054
20	14.5	11.5			20.8	21.1	MMS-HY-07055
20	15.2	12.8			12.7	13.7	MMS-HY-07056
20	16	17.3	16.2	14.6	9		MMS-HY-07057
20	17	14.5			24	25.5	MMS-HY-07058
20	17	14.5			9.5	10.5	MMS-HY-07059
21	14.7	17	15.5	13.2	13	13	MMS-HY-07060
21	17.4	18.8	18	16.4	9.2		MMS-HY-07061
21	18.4	15.5			25	26	MMS-HY-07062
22	16.3	18.6	17	14.7	13	13	MMS-HY-07063
22	16.6	13.5			21	22	MMS-HY-07064
22	17.1	19.4	17.8	15.5	13	13	MMS-HY-07065
22	18.2	19.6	18.8	17.2	9		MMS-HY-07066

PROTECTIVE COVERS

TYPE C

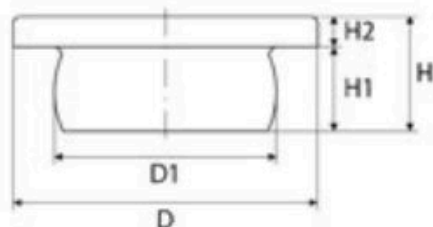
D mm	D1 mm	D2 mm	D3 mm	D4 mm	H1 mm	H2 mm	REF
22	20.7	17.7			9.5	10.5	MMS-HY-07067
24	16.6	13.5			9	10.5	MMS-HY-07068
24	17.5	20.1	18.5	15.9	15	15	MMS-HY-07069
24	18.7	20	19	17.7	9.2		MMS-HY-07070
24	19.8	21.2	19.7	18.3	8.8		MMS-HY-07071
25	18.4	21	19.4	16.8	15	15	MMS-HY-07072
25	18.9	16.5			10.5	11	MMS-HY-07073
25	19	21.6	20	17.4	15	15	MMS-HY-07074
25	20.3	22.6	20.8	18.4	14		MMS-HY-07075
25	22.5	19.7			12	12.5	MMS-HY-07076
26	212	233	22	196	142		MMS-HY-07077
26	246	215			25	26	MMS-HY-07078
27	20.4	23.2	21.6	18.8	16	16	MMS-HY-07079
28	18.4	15.5			25	26	MMS-HY-07080
28	20.2	17.8			21	21.5	MMS-HY-07081
28	20.7	23.5	21.9	19.1	16	16	MMS-HY-07082
28	23	25	24	21.6	14		MMS-HY-07083
28	23.9	20.3			29	29.5	MMS-HY-07084
28	25.5	22.3			17	18.5	MMS-HY-07085
29	22	24.8	23.2	20.4	16	16	MMS-HY-07086
30	23.2	26.35	24.35	21.2	18	18	MMS-HY-07087
30	24.3	26.4	25	22.6	14		MMS-HY-07088
30	25.7	27.8	26.8	24.4	14.2		MMS-HY-07089
31	27	24.8			20.5	21.8	MMS-HY-07090
32	24.5	21.2			10	10.5	MMS-HY-07091
32	24.5	27.8	26.2	22.9	19	19	MMS-HY-07092
32	27.2	29.3	27	24.6	14		MMS-HY-07093
32	28.4	26			9.5	10	MMS-HY-07094
33	25.2	29.2	27.1	23.7	19	19	MMS-HY-07095
33	26.4	30.4	28.9	24.9	19	19	MMS-HY-07096
33	30	27.3			19	20.5	MMS-HY-07097
34	31	28			9.5	10.5	MMS-HY-07098
35	27.8	31.1	29.5	26.2	19	19	MMS-HY-07099
35	30	32	30.6	28.4	14		MMS-HY-07100
36	32.5	29.6			21	22.5	MMS-HY-07101
37	29.8	32.6	31.1	28.3	16	16	MMS-HY-07102
37	32.8	29.4			19	20	MMS-HY-07103
38	31.4	35.1	33.4	29.7	21	21	MMS-HY-07104
38	32	34	32	29.6	14		MMS-HY-07105
40	33.6	36	34	31.6	14		MMS-HY-07106
41	33.3	37.1	35.5	31.7	22	22	MMS-HY-07107
41	34.5	37	35	32.6	14		MMS-HY-07108
42	35.5	38.1	35.5	33.1	14		MMS-HY-07109
42	36	38.4	36	33.6	14		MMS-HY-07110
43	38.5	41	39.5	37.1	14		MMS-HY-07111
43	40.5	37.5			9.5	11	MMS-HY-07112
44	37.9	40	38	35.6	13.8		MMS-HY-07113
45	36.7	40.5	39	35.2	22	22	MMS-HY-07114
45	38.4	40.7	39.2	36.9	13	13	MMS-HY-07115
46	398	42	395	371	14		MMS-HY-07116
47	38.8	35.4			21	22	MMS-HY-07117
47	41.3	43.5	41.5	39.1	14		MMS-HY-07118

TYPE C

D mm	D1 mm	D2 mm	D3 mm	D4 mm	H1 mm	H2 mm	REF
48	38.2	43	41.4	36.6	23	23	MMS-HY-07119
48	39.6	42.9	41.9	38	19	19	MMS-HY-07120
49	41.4	44.7	43	39.7	19	19	MMS-HY-07121
50	44.8	41.4			19	20	MMS-HY-07122
51	44.4	47.7	46.1	42.8	19	19	MMS-HY-07123
51.5	43.9	46	42	40.2	13.5		MMS-HY-07124
52	45.5	47.5	45	43	13.5		MMS-HY-07125
53.5	50.5	48.3			24	25.5	MMS-HY-07126
54	45.2	49.6	48	43.6	25	25	MMS-HY-07127
54	47.9	50	46.5	44.1			MMS-HY-07128
54.5	52	49			9.5	10.5	MMS-HY-07129
55	46.6	51	49.6	45.2	25	25	MMS-HY-07130
55	50.5	53.3	51.3	48.8	14		MMS-HY-07131
56	49.8	51.6	48.5	46.1	13.3		MMS-HY-07132
58	52.5	54.9	51.5	49.1	13.5		MMS-HY-07133
60	54.5	56.2	54	51.6	13.5		MMS-HY-07134
61	55.5	58	55	52.6	13.6		MMS-HY-07135
61	58	55			12.5	12.5	MMS-HY-07136
62	52.5	56.9	55.2	20.8	25	25	MMS-HY-07137
63	57	59	56.8	54.5			MMS-HY-07138
64	58.5	60.8	58	55.6	13.5		MMS-HY-07139
65	54	59.25	57.75	52.5	25	25	MMS-HY-07140
65	54.2	58.6	57	52.6	25	25	MMS-HY-07141
66	60.5	63	60	57.6	13.5		MMS-HY-07142
67	58.4	62.8	61.1	56.7	25	25	MMS-HY-07143
67	61.3	63.5	61	58.6	13		MMS-HY-07144
68	62.5	64.8	62	59.6	13.2		MMS-HY-07145
69	63.5	65.7	63	60.1	13		MMS-HY-07146
69	64	61.5			29	30.5	MMS-HY-07147
71	60.7	67.1	64.3	59	29	29	MMS-HY-07148
71	65	67.3	64.5	62.3	13		MMS-HY-07149
72	66	67.5	65	62.6	13		MMS-HY-07150
72	69.5	66.5			29	29.5	MMS-HY-07151
74	67.9	69.5	67	64.6	13		MMS-HY-07152
75	67.1	70.5	68.7	65.4	19	19	MMS-HY-07153
75	69.8	71.7	68	66	13		MMS-HY-07154
77	71.5	73.4	70	67.6	13		MMS-HY-07155
79	72.8	74	70	67.6	13		MMS-HY-07156
80	76	70			20	20.5	MMS-HY-07157
83	72.4	75.7	74.1	70.8	19	19	MMS-HY-07158
85	74	76.6	73	69.9	17		MMS-HY-07159
87	76.5	79	76.5	73.4	16.8		MMS-HY-07160
88	77.5	80	76	72.9	17		MMS-HY-07161
89	82	86	83.9	79.7	23		MMS-HY-07162
90	79	82	78	75.4	17		MMS-HY-07163
92	81.5	83.6	80	76.9	16.5		MMS-HY-07164
92	84.5	87.8	85.7	82.4	19	19	MMS-HY-07165
95	84	87.1	83	79.9	16.5		MMS-HY-07166
97	86.5	89	86	82.9	17.5		MMS-HY-07167
100	89	91.5	88	84.9	17		MMS-HY-07168
102	91.5	94	92	88.9	17		MMS-HY-07169
105	94	96	92	90	17		MMS-HY-07170

TYPE C

D mm	D1 mm	D2 mm	D3 mm	D4 mm	H1 mm	H2 mm	REF
107	96.5	99	96	92.9	17		MMS-HY-07171
110	99	102.5	99	95.9	17		MMS-HY-07172
112	101.5	104	102	98.9	17		MMS-HY-07173
115	104	106.5	104	100.9	17		MMS-HY-07174
117	106.5	109	106	102.9	17		MMS-HY-07175
120	109	111	108	105	17		MMS-HY-07176
123	112	114.5	112.5	109.4	17		MMS-HY-07177
124.5	114.3	119.2	117.1	112.1	28		MMS-HY-07178
125	114	117	114.5	111.4	16.6		MMS-HY-07179
130	119	123	120.2	116.1	23		MMS-HY-07180
134	124	128	123	119.1	23		MMS-HY-07181
140	129	133	130.2	126.1	23		MMS-HY-07182
143	133	137	133	129	23		MMS-HY-07183
159	149	153	148	144.1	23		MMS-HY-07184
159.5	146.8	152.6	149.9	144	23		MMS-HY-07185
169	159	162	158	154	23		MMS-HY-07186
170	160	164	160	156	23		MMS-HY-07187
179	169	172	168	164	23		MMS-HY-07188
184	174	177	173	169	23		MMS-HY-07189
189	179	182	178	174	23		MMS-HY-07190
192	181.5	184.5	180.5	176.5	23		MMS-HY-07191
199.5	183.6	190.6	187.9	182	33		MMS-HY-07192
209	199	202	198	194	22.5		MMS-HY-07193
212	202	205	202.1	198.1	23		MMS-HY-07194
213	203	205	202	199	23		MMS-HY-07195
216	206	210.6	206	201.6	23.5		MMS-HY-07196
235	218	222	217.4	213.5	22.5		MMS-HY-07197
242	225	229	225.4	221.3	23.5		MMS-HY-07198
249.5	231.2	238.2	235.6	228.6	33		MMS-HY-07199
265	253	258	253	249.2	18		MMS-HY-07200
267	249	252	248	244.1	22.5		MMS-HY-07201
314	293.4	300.2	296.7	289.8	32.5		MMS-HY-07202
315	299	304	298	294.1	22.5		MMS-HY-07203
326	308	313	308	303.4	21.8		MMS-HY-07204
329	311	316	311	306.4	22		MMS-HY-07205
358	338	343	338	333.4	22		MMS-HY-07206
399	371.9	381	377.7	368.4	32.5		MMS-HY-07207
415	398	406	399	392.7	30		MMS-HY-07208
455	435	443	437	430.7	30		MMS-HY-07209
499	365.4	476.7	472.8	461.3	32		MMS-HY-07210
506	484	491	486	479.7	30		MMS-HY-07211
1376	1275	1306	1276	1236	23		MMS-HY-07212
1636	1535	1575	1536	1496	23		MMS-HY-07213

TYPE D

D mm	D1 mm	D2 mm	H mm	H1 mm	H2 mm	REF
5	3.1			2	3	MMS-HY-07214
5	6.6			2	3	MMS-HY-07215
13	6.2	3.8		6	7.3	MMS-HY-07216
13	6.4	5		9	10.8	MMS-HY-07217
13	7.1	4.7		6	7.8	MMS-HY-07218
13	7.8	6		9	10.8	MMS-HY-07219
13	8.2	5.8		6	7.8	MMS-HY-07220
13	8.8			7.5	9.5	MMS-HY-07221
13	9.3	7.7		6	7.3	MMS-HY-07222
13	10.3			5.5	7.5	MMS-HY-07223
14	10.7		7.5	5.5	2	MMS-HY-07224
14	10.7			5.5	7.5	MMS-HY-07225
14	7.2		8	6	2	MMS-HY-07226
14	7.2		8	6	2	MMS-HY-07227
14	8.4		8	6	2	MMS-HY-07228
14	8.4			6	8	MMS-HY-07229
14	8.6		6.5	4.5	2	MMS-HY-07230
14	8.6			4.5	6.5	MMS-HY-07231
14	9.2		6.5	4.5	2	MMS-HY-07232
14	9.2			4.5	6.5	MMS-HY-07233
14	9.4		6.5	4.5	2	MMS-HY-07234
14	9.4			4.5	6.5	MMS-HY-07235
16	10.4	8		11	12.8	MMS-HY-07236
16	10.4	8.1		8	9.2	MMS-HY-07237
16	10.7			7	9	MMS-HY-07238
16	10.8	8.8		8	9.8	MMS-HY-07239
16	11.3	9.4		8	9.3	MMS-HY-07240
16	11.7		9	7	2	MMS-HY-07241
16	11.9	9.7		13	14.5	MMS-HY-07242
16	11.9	9.7		8	9.2	MMS-HY-07243
16	12.3		9	7	2	MMS-HY-07244
16	12.3			7	9	MMS-HY-07245
16	13		9	7	2	MMS-HY-07246
16	13			7	9	MMS-HY-07247
18	8.6			6	8	MMS-HY-07248
19	12.9	10.9		8	9.8	MMS-HY-07249
19	13.7	11.7		8	9.8	MMS-HY-07250
19	14	11.7		16	17.7	MMS-HY-07251
19	14.5	12.5		8	9.3	MMS-HY-07252
19	15	13		8	9.3	MMS-HY-07253
20	13.7		10	8	2	MMS-HY-07254
20	13.7		10	8	2	MMS-HY-07255

TYPE D

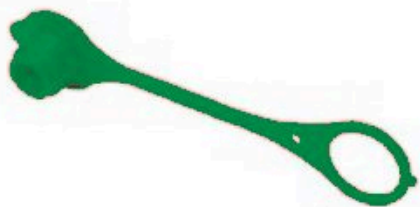
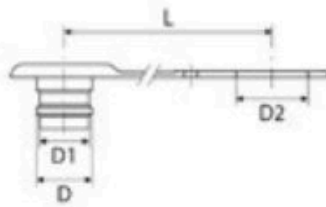
D mm	D1 mm	D2 mm	H mm	H1 mm	H2 mm	REF
20	14.6		7.5	5.5	2	MMS-HY-07256
20	14.7		8	4	2	MMS-HY-07257
20	15		10	8	2	MMS-HY-07258
20	15		11.6	8	2	MMS-HY-07259
20	15		7.5	5.5	2	MMS-HY-07260
20	15			5.5	7.5	MMS-HY-07261
20	15.6		10	8	2	MMS-HY-07262
20	16.5			5.5	7.5	MMS-HY-07263
20	16.7		7.5	5.5	2	MMS-HY-07264
22	16.5		7.5	5.5	2	MMS-HY-07265
22	16.5			5.5	7.5	MMS-HY-07266
22	16.7		7.5	5.5	2	MMS-HY-07267
22	16.7			5.5	7.5	MMS-HY-07268
22	17.1		10.5	8	2.5	MMS-HY-07269
22	17.1		10.5	8	2.5	MMS-HY-07270
24	15.9	13.7		9	10.7	MMS-HY-07271
24	17	14.7		9	10.6	MMS-HY-07272
24	17.7	15.7		9	10.7	MMS-HY-07273
24	17.8	14.7		22	23.3	MMS-HY-07274
24	18.3	16.5		9	10.7	MMS-HY-07275
25	18.4		10.5	8	2.5	MMS-HY-07276
25	18.4		10.5	8	2.5	MMS-HY-07277
25	19.3		10.8	8	2.8	MMS-HY-07278
25	19.3			8	10.8	MMS-HY-07279
25	19.6		10.5	8	2.5	MMS-HY-07280
25	19.6			8	10.5	MMS-HY-07281
25	20.7		10.5	8	2.5	MMS-HY-07282
25	20.7			8	10.5	MMS-HY-07283
25	21.2		9.5	7.5	2	MMS-HY-07284
25	21.2			8	10	MMS-HY-07285
25	21.4			7.5	9.5	MMS-HY-07286
25	21.5		10	8	2	MMS-HY-07287
25	21.7		10.5	8	2.5	MMS-HY-07288
25	21.7		10.5	8	2.5	MMS-HY-07289
26	19.9	17.7		10	12.2	MMS-HY-07290
26	20.9	18.7		10	12.2	MMS-HY-07291
26	21.5	18.7		26	28.2	MMS-HY-07292
26	22	19.7		10	12.2	MMS-HY-07293
26	22.7	20.5		10	12.2	MMS-HY-07294
27	24.5		11	8.5	2.5	MMS-HY-07295
27	24.5			8.5	11	MMS-HY-07296
28	22.4		12	9	3	MMS-HY-07297
28	22.4			9	12	MMS-HY-07298
28	23.6		12	9	3	MMS-HY-07299
28	23.6		12	9	3	MMS-HY-07300
28	24		12	9	3	MMS-HY-07301
28	24			9	12	MMS-HY-07302
28	24.6		12	9	3	MMS-HY-07303
28	24.6			9	12	MMS-HY-07304
28	25.5		9.5	7.5	2	MMS-HY-07305
28	25.5			7.5	9.5	MMS-HY-07306
28	26.5		12	9	3	MMS-HY-07307

TYPE D

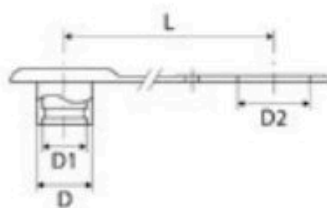
D mm	D1 mm	D2 mm	H mm	H1 mm	H2 mm	REF
28	26.5		12	9	3	MMS-HY-07308
29	23.2	21.2		10	12.2	MMS-HY-07309
29	23.7	21.7		10	12.2	MMS-HY-07310
29	24.4	23		10	12.2	MMS-HY-07311
29	25	23.7		10	12.2	MMS-HY-07312
33	26.3	24.9		11	13.2	MMS-HY-07313
33	27.2	25.2		11	13.2	MMS-HY-07314
33	28.3	25.7		11	13.2	MMS-HY-07315
33	29.3	26.9		11	12.5	MMS-HY-07316
36	29		15	12	3	MMS-HY-07317
36	29			12	15	MMS-HY-07318
36	30.1	27.9		11	12.6	MMS-HY-07319
36	30.4	28.3		11	13.2	MMS-HY-07320
36	30.5		15	12	3	MMS-HY-07321
36	30.5			12	15	MMS-HY-07322
36	31			12	15	MMS-HY-07323
36	31.8		12.5	12	0.5	MMS-HY-07324
36	32	29.7		11	12.5	MMS-HY-07325
36	32			10	12.5	MMS-HY-07326
36	32.8	30.5		11	13.2	MMS-HY-07327
36	33.5		14	12	2	MMS-HY-07328
36	33.5			12	14	MMS-HY-07329
42	33.9	31.5		12	14.2	MMS-HY-07330
42	34.5	32.5		11	13.2	MMS-HY-07331
42	34.8		18	15	3	MMS-HY-07332
42	34.8			15	18	MMS-HY-07333
42	35.3	32.4		12	14.2	MMS-HY-07334
42	35.5		18	15	3	MMS-HY-07335
42	35.5		18	15	3	MMS-HY-07336
42	36.5	34.7		12	14.2	MMS-HY-07337
42	36.5		18	15	3	MMS-HY-07338
42	36.5			15	18	MMS-HY-07339
42	38.4		12.5	10	2.5	MMS-HY-07340
42	38.4			10	12.5	MMS-HY-07341
42	39		18	15	3	MMS-HY-07342
42	39			15	18	MMS-HY-07343
42	40		18	15	3	MMS-HY-07344
42	40			15	18	MMS-HY-07345
45	38	35.7		12	14.2	MMS-HY-07346
45	38.9	36.7		12	14.2	MMS-HY-07347
45	39.4	37.5		12	14.2	MMS-HY-07348
45	40.2	38.5		12	14.2	MMS-HY-07349
45	40.7		18	15	3	MMS-HY-07350
45	40.7			15	18	MMS-HY-07351
48	42.3		18	15	3	MMS-HY-07352
48	42.3			15	18	MMS-HY-07353
50	41.8	39.5		12	13.7	MMS-HY-07354
50	43.7	41.5		12	14.2	MMS-HY-07355
50	44.8	42		12	14.2	MMS-HY-07356
55	46		21	18	3	MMS-HY-07357
55	48.3	46.3		12	14.2	MMS-HY-07358
55	48.5		15	12	3	MMS-HY-07359

TYPE D

D mm	D1 mm	D2 mm	H mm	H1 mm	H2 mm	REF
55	48.5			12	15	MMS-HY-07360
55	51.5		21	18	3	MMS-HY-07361
55	51.5			18	21	MMS-HY-07362
56	46.8	44.5		12	13.7	MMS-HY-07363
56	48.7	46.7		12	14.2	MMS-HY-07364
56	50.5	47.5		20	22.2	MMS-HY-07365
62	54	51.5		13	14.2	MMS-HY-07366
63	55		21	18	3	MMS-HY-07367
63	55			18	21	MMS-HY-07368
63	55.8		21	18	3	MMS-HY-07369
63	55.8			18	21	MMS-HY-07370
63	58		21	18	3	MMS-HY-07371
63	58			18	21	MMS-HY-07372
63	59			18	21.3	MMS-HY-07373
65	60.8	58		18	18	MMS-HY-07374
71	66		21.5	18	3.5	MMS-HY-07375
71	66			18	21.5	MMS-HY-07376
72	62.5	59.2		14	16	MMS-HY-07377
78	71		22	18	4	MMS-HY-07378
78	71			18	22	MMS-HY-07379
85	79.5	76.5		18	18	MMS-HY-07380
86	75.8			19	22	MMS-HY-07381
88	75.6	72.9		14	16.5	MMS-HY-07382
92	88.5	85		20	20	MMS-HY-07383
95	86			18	19.3	MMS-HY-07384
124	102.5			18	21.5	MMS-HY-07385
152	123.5			18	21.5	MMS-HY-07386
165	152			17.5	20	MMS-HY-07387
200	182			19.5	22	MMS-HY-07388

TYPE E1

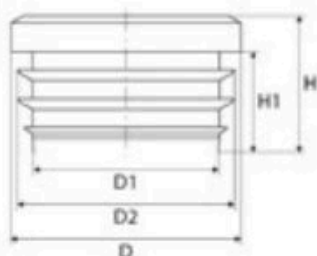
Thread	Pitch	D mm	D1 mm	D2 mm	L mm	REF
1/4		12	11	22	125	MMS-HY-07389
3/8		18	16	22	125	MMS-HY-07390
1/2		24	20	29	135	MMS-HY-07391
1/2		24	20	27	135	MMS-HY-07392
M36	2	36	29	30	135	MMS-HY-07393

TYPE E2

Thread	D mm	D1 mm	D2 mm	L mm	REF
1/4	12.5	11.5	22	125	MMS-HY-07394
3/8	18.5	16	22	125	MMS-HY-07395
1/2	24	23	27	135	MMS-HY-07396
1/2	24	23	29	135	MMS-HY-07397

PROTECTIVE COVERS

TYPE F



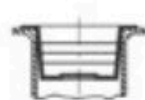
D mm	D1 mm	D2 mm	H mm	H1 mm	H2 mm	REF
10	5	8.5	15	11		MMS-HY-07398
12	7	10.5	15	11		MMS-HY-07399
13	8	11.5	15	11		MMS-HY-07400
14	9	12.5	15	11		MMS-HY-07401
15	10	13.5	15	11		MMS-HY-07402
16	11	14.5	15	11		MMS-HY-07403
16	12.3			3	2	MMS-HY-07404
18	13	16.5	15	11		MMS-HY-07405
18	15.4			4	1	MMS-HY-07406
20	15	18.5	15	11		MMS-HY-07407
20	17.6			4	2	MMS-HY-07408
22	16	20.5		14	19	MMS-HY-07409
25	19	23.5	19	14		MMS-HY-07410
25	21.1			2.5	1.5	MMS-HY-07411
27	21	25.5	19	14		MMS-HY-07412
28	22	26.5	19	14		MMS-HY-07413
28	26			4	2.2	MMS-HY-07414
30	24	28.5	19	14		MMS-HY-07415
32	26	30.5	19	14		MMS-HY-07416
34	28	32.5	19	14		MMS-HY-07417
35	20.5			5	2.5	MMS-HY-07418
35	29	33.5	19	14		MMS-HY-07419
36	30	34.5	19	14		MMS-HY-07420
36	33.5			4	2	MMS-HY-07421
38	26			5.3	2.1	MMS-HY-07422
38	27			4.3	2	MMS-HY-07423
38	27			7.5	2	MMS-HY-07424
38	32	36.5	19	14		MMS-HY-07425
40	34	38.5	19	14		MMS-HY-07426
42	36	40.5	19	14		MMS-HY-07427
45	39	43.5	19	14		MMS-HY-07428
48	42	46.5	22	17		MMS-HY-07429
50	40			4	2	MMS-HY-07430
50	40.4			2.4	1.8	MMS-HY-07431
50	43	48.5	22	17		MMS-HY-07432
53	36.5			5	2	MMS-HY-07433
55	48	53.5	22	17		MMS-HY-07434
55	50.6			4	2	MMS-HY-07435
60	51	56.5	22	17		MMS-HY-07436
60	53	58.5	22	17		MMS-HY-07437
62	53.8			4	2	MMS-HY-07438
66	61.5			7.8	2	MMS-HY-07439

TYPE F

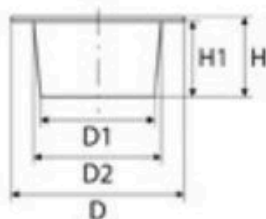
D mm	D1 mm	D2 mm	H mm	H1 mm	H2 mm	REF
68	62			4	1.8	MMS-HY-07440
70	59	64.5	22	17		MMS-HY-07441
70	61	66.5	22	17		MMS-HY-07442
76	65	70.5	22	17		MMS-HY-07443
76	67	72.5	22	17		MMS-HY-07444
76	71.5			5	2.5	MMS-HY-07445
83	75			8	2	MMS-HY-07446
85	64.6			4.1	2	MMS-HY-07447
90	72.8			7.5	2	MMS-HY-07448
90	79	84.5	22	17		MMS-HY-07449
90	81	86.5	22	17		MMS-HY-07450
90	82			8	2	MMS-HY-07451
102	91	96.5	22	17		MMS-HY-07452
102	93	98.5	22	17		MMS-HY-07453
103	93			7.7	2	MMS-HY-07454
109	101			5	2	MMS-HY-07455

PROTECTIVE COVERS

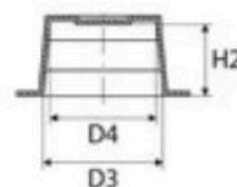
TYPE G



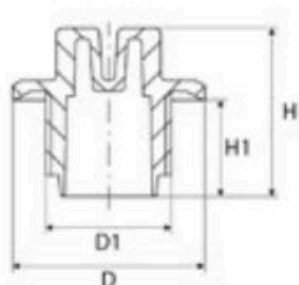
Inside use



Outside use

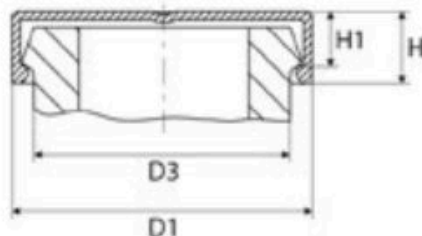


D mm	D1 mm	D2 mm	D3 mm	D4 mm	H1 mm	H2 mm	REF
22	4.4	6.3	4.6	2.7	11	11.2	MMS-HY-07456
23	6	7.9	6.1	4.3	11	11.2	MMS-HY-07457
25	7.6	9.5	7.8	5.9	11	11	MMS-HY-07458
26	8.4	10.3	8.6	6.8	11	10	MMS-HY-07459
27	9.9	11.7	10	8.3	11	10	MMS-HY-07460
28	10.6	12.4	10.6	8.8	11	10	MMS-HY-07461
29	11.3	13.2	11.6	9.8	11	10	MMS-HY-07462
30	12	14.2	12.5	10.4	13	12	MMS-HY-07463
30	12.5	14.6	13.1	11.2	13	12	MMS-HY-07464
31	13.8	15.9	14.1	12	13	12	MMS-HY-07465
31	14	16.4	14.5	12.2	13	12	MMS-HY-07466
33	15	17.2	15.5	13.4	14	13	MMS-HY-07467
34	16.5	18.8	17.1	14.8	14	13	MMS-HY-07468
34	17.4	19.6	17.8	15.6	14	13	MMS-HY-07469
36	17.7	20.3	18.6	16	16	15	MMS-HY-07470
37	18.6	21.2	19.5	16.9	16	15	MMS-HY-07471
37	19.3	21.9	20.1	17.6	16	15	MMS-HY-07472
39	20.8	23.5	21.8	18.9	17	16	MMS-HY-07473
40	21.2	24	22.1	19.3	17	16	MMS-HY-07474
41	22.3	25.2	23.4	20.4	17	16	MMS-HY-07475
42	23.7	27	24.1	20.9	19	18	MMS-HY-07476
44	25	28.3	26.4	23	20	19	MMS-HY-07477
45	26.4	29.5	27.7	24.7	20	19	MMS-HY-07478
47	28.3	31.4	29.7	26.4	20	19	MMS-HY-07479
49	29.8	32.9	31.2	28.1	20	19	MMS-HY-07480
50	32	35.5	33.6	29.8	22	21	MMS-HY-07481
52	33.8	37.8	36	31.9	23	22	MMS-HY-07482
54	36.4	40.2	38.4	34.5	22	21	MMS-HY-07483
60	39.2	43.1	41.3	37.2	23	22	MMS-HY-07484
64	44.4	44.4	46.1	42.6	20	18	MMS-HY-07485
66	50.5	50.5	51.1	48.8	14	13.7	MMS-HY-07486
70	41.3	44.8	43	39.5	20	19	MMS-HY-07487
74.3	52.7	52.7	54.6	51	25	24.7	MMS-HY-07488
85	62.5	62.5	66	60.4	20.5	20.5	MMS-HY-07489

TYPE H

Thread	Metric/inch	Imperial pitch	Pitch	D mm	D1 mm	H mm	H1 mm	REF
M8	M	1		12.2	8	15	8	MMS-HY-07490
M10	M	1		14.2	10	15	8	MMS-HY-07491
M12	M	1.5		17.2	12	18	11	MMS-HY-07492
M14	M	1.5		19.2	14	19	11	MMS-HY-07493
M16	M	1.5		22	16	21	11	MMS-HY-07494
M18	M	1.5		24	18	21	11	MMS-HY-07495
M20	M	1.5		26	20	21	11	MMS-HY-07496
M22	M	1.5		27.2	22	21	11	MMS-HY-07497
M26	M	1.5		32	26	23.5	13.5	MMS-HY-07498
M27	M	2		32.3	27	21	11	MMS-HY-07499
M33	M	2		40.4	33	23.5	13.5	MMS-HY-07500
M42	M	2		50	42	23.5	13.5	MMS-HY-07501
M48	M	2		55.4	48	23.5	13.5	MMS-HY-07502
M60	M	2		68.5	60	23.5	13.5	MMS-HY-07503
9/16 UNF	I		18	17.8	14.29	18	11	MMS-HY-07504
G1/4	I		19	19.2	13.16	15.5	7.5	MMS-HY-07505
G3/8	I		19	22.2	16.66	17.5	7.5	MMS-HY-07506
G1/2	I		14	27.2	20.96	19.5	9.5	MMS-HY-07507
G3/4	I		14	32.2	26.44	19.5	9.5	MMS-HY-07508
G1	I		11	40.4	33.25	21.5	11.5	MMS-HY-07509
G1 1/4	I		11	50.4	47.91	22.5	11.5	MMS-HY-07510
G1 1/2	I		11	55.4	47.81	22.5	11.5	MMS-HY-07511

TYPE I



D1 mm	D3 mm	H1 mm	REF
30.2	29.4	6.9	MMS-HY-07512
31.7	30.9	7.9	MMS-HY-07513
38.1	37.3	6.9	MMS-HY-07514
41.3	40.5	8.9	MMS-HY-07515
44.4	43.6	8.1	MMS-HY-07516
47.6	46.8	9.7	MMS-HY-07517
50.5	49.5	8.1	MMS-HY-07518
54	53.2	10.4	MMS-HY-07519
60.3	59.5	8.1	MMS-HY-07520
62.5	63.5	12.7	MMS-HY-07521
71.4	70.6	9.7	MMS-HY-07522
79.4	78.6	12.7	MMS-HY-07523
90.3	88.3	9	MMS-HY-07524
106	104	10	MMS-HY-07525
125	123	11	MMS-HY-07526
150	148	12	MMS-HY-07527
213	211	16	MMS-HY-07528

SERVICE PLUG FOR HYDRAULIC HOSES



Type	REF
Mix set of plugs for Ø 1-42 mm	MMS-HY-07529
Set of 10 plugs for Ø 1-10 mm	MMS-HY-07530
Set of 4 plugs for Ø 13-43 mm	MMS-HY-07531
Set of 10 plugs for Ø 12-23 mm	MMS-HY-07532

NOTES



28.

WORKSHOP & WAREHOUSE SUPPLIES AND PPE

ADJUSTABLE WRENCHES



Chrome-plated, adjustable nut spanners with scales

- Movable jaw opening with right-hand rotation of pin
- Head angled at 22.5 degrees, with mm and inch scale

- Maximum width: 28 mm
- Length: 200 mm (8 inch)
- Weight: 325 g
- Complies with DIN 3117 and ISO 6787

REF **MMS-HY-07533**

- Maximum width: 35 mm
- Length: 300 mm (12 inch)
- Weight: 790 g
- Complies with DIN 3117 and ISO 6787

REF **MMS-HY-07534**



FLARE NUT WRENCHES - 6 PIECES



Set of 6 flare nut open ring wrenches

Contents:

- 6 wrenches: 8x10 - 10x11 - 11x13 - 12x14 - 17x19 - 19x22 mm
- Weight: 690 g

REF **MMS-HY-07535**



1/2" HEXAGON COMBINATION SET - 17 PIECES



12 sockets and 5 accessories

Contents:

- 12 hexagon sockets: 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm
- 1 x 72-teeth ratchet
- 1 sliding T-handle
- 2 extensions: 125 - 255 mm
- 1 universal joint

- Dimensions (L x W x H): 420 x 185 x 60 mm
- Weight: 4.2 kg

REF **MMS-HY-07536**



1/2" BI-HEX SOCKET SET - 12 PIECES

10 bi-hex sockets and 2 accessories

Contents:

- 10 sockets: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16"
- 1 extension: 255 mm
- 1 x 72-teeth ratchet

- Dimensions (L x W x H): 335 x 145 x 60 mm
- Weight: 2.6 kg

REF **MMS-HY-07537**

1/2" BIT SOCKET SET

10 socket drivers for hexagon screws

Contents:

- 10 socket drivers: 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm

- Dimensions (L x W x H): 270 x 120 x 45 mm
- Weight: 1.5 kg

REF **MMS-HY-07538**

CLICK-TYPE TORQUE WRENCH WITH PUSH-THROUGH RATCHET - 1/2"

Torque wrench for right-hand and left-hand tightening with a torque accuracy of $\pm 3\%$

- Scale increased by 60% for improved visibility and setting accuracy
- Torque adjusting speed increased by 40%
- Handle and lens materials resistant to all chemical substances used in automotive sector, industry and aviation
- Red colour of o-ring indicates that wrench is unlocked and torque can be adjusted
- When not in use, set torque to lowest value of torque wrench range
- Recalibration reminder shows time to recalibrate wrench (4 steps: 3, 6, 9 and 12 months)



- Type of connection: square
- Size: 1/2"
- Range: 40 - 200 Nm, 30 - 150 lbf.ft
- Torsion accuracy: $\pm 3\%$
- For right- and left-hand tightening
- Length: 465 mm
- Weight: 1010 g
- Complies with: UNI EN ISO 6789

REF **MMS-HY-07539**

ALLEN KEY SET - 9 PIECES



set of 9 ball head offset long hexagon key wrenches with support

Contents:

- 9 long hexagon ball head keys: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm
- Weight: 330 g
- Metric

REFMMS-HY-07540

Contents:

- 9 long hexagon ball head keys: 1/16 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16 - 3/8"
- Imperial

REFMMS-HY-07541

SET OF SCREWDRIVERS - 6 PIECES



Screwdrivers with a soft grip handle

Contents:

- 4 slotted screwdrivers: 3 x 75 - 4 x 100 - 5.5 x 125 - 6.5 x 150 mm
- 3 cross head Phillips® screwdrivers: PH1 x 80 - PH2 x 100 mm

REFMMS-HY-07542

PRECISION CIRCLIP PLIERS SET - 4 PIECES



Set of 4 common precision circlip pliers for the highest requirements

This set contains four precision circlip pliers, also called retaining ring pliers. These are designed to install or remove circlips. In addition to this feature, these pliers can be used to cut, bend, twist... various materials. A multifunctional tool that is crucial in any workspace. The sturdy plastic packaging provides extra protection.

- Attractive sales packaging with Euro standard perforation
- Sturdy plastic packaging, also suitable for storage of the pliers
- ø of the pliers: 19 - 60 mm

REFMMS-HY-07543

THREAD GAUGE

Screw pitch gauge for ISO 60° metric and whitworth 55° threads

REF **MMS-HY-02252**

ANALOGUE VERNIER CALIPER - READING TO 0.05 MM

Sliding gauge made from hardened stainless steel in leather sheath

- With spring locking
- Point-shaped beak
- Metric graduation: 0.05 mm
- Maximum metric measuring length: 150 mm (6")
- Length of the jaw: 40 mm (1.57")
- Width of the ruler: 16 mm
- Thickness of the ruler: 3 mm
- Weight: 170 g
- Length: 235 mm
- Complies with: UNI EN ISO 13385-1/DIN 862

REF **MMS-HY-07544**

DIGITAL VERNIER CALIPER - READING TO 0.01 MM

Standard stainless steel caliper with digital display

- With locking screw
- Point-shaped beak
- Metric graduation: 0.01 mm
- Imperial graduation: 0.0005
- Maximum measuring length: 150 mm (6")
- Length of the jaw: 40 mm (1.57")
- Length of the upper side jaw: 21 mm
- Weight: 160 g

REF **MMS-HY-07545**

CIRCOMETER



Stainless steel measuring tape to measure outside diameter and circumference

- Diameter of the circometer: 20 - 300 mm
- Outline of the circometer: 60 - 950 mm

REF **MMS-HY-07546**

MAGNETIC FIELD DETECTOR



Used for testing operating solenoid valves in pneumatic and hydraulic control equipment, testing relays with coils and electrically controlled solenoid valves in all types of vehicles and machines and testing solenoid valves when servicing oil burners

- Easy to use
- Batteries included

REF **MMS-HY-06759**

MAGNETIC TRAY

Round magnetic tool holder
• Diameter: 150 mm

REF **MMS-HY-07547**

**HOSE CLAMP SET - 3 PIECES**

Set of 3 plastic hose pliers

Contents:

- Diameter: 8 - 15 mm
- Diameter: 15 - 25 mm
- Diameter: 25 - 45 mm
- Weight: 240 g

REF **MMS-HY-07548**



HOOK & PICK SET - 4 PIECES



Used to remove o-rings
RVS hook and solid plastic soft grip handle

Set contains 4 mini tools:

- Awl
- Round hook
- Hook 45°
- Hook 90°

- Length of the tools: 150 mm

REF **MMS-HY-06475**

FLEXIBLE REUSABLE FUNNEL



For draining and pouring of liquids in applications where rigid funnels are too big
Bends, moulds and holds any shape

- Dimensions: 370 x 165 mm

REF **MMS-HY-07549**

DRUM WRENCH



Key to open barrels

Universal barrel opening wrench with 3 uses

- Female hexagon (Ø 38 mm)
- 4-sector profile (Ø 42 mm)
- Blade (17 x 7 mm)

- Length: 265 mm
- Diameter: 27 mm

REF **MMS-HY-07550**

FUNNEL WITH LID - Ø 250 MM - 3.2 L

- Funnel for waste oil or chemical disposal
- Lockable cover
 - High flow rate
 - Used for fluid and powder
 - To suit standard 60 l or 200 l barrels (G2" connection)
 - Material of the funnel and cap: high density polyethylene
 - Material of the connection: zinc die casting
 - Capacity: 3.2 l
 - Total diameter: 250 mm
 - Height: 210 mm
 - Base (L x B): 325 x 260 mm
 - Weight: 580 g
 - Colour: red - black cover

REF **MMS-HY-07551****BARREL POLY RECEPACLE - 230 L**

- Waste oil collector for 2 barrels of 200 l
- Delivered with grid
 - Barrels not included

- Material: plastic
- Capacity: 230 l
- Carrying capacity: 650 kg
- Dimensions (L x W x H): 1220 x 820 x 330 mm
- Weight: 23 kg

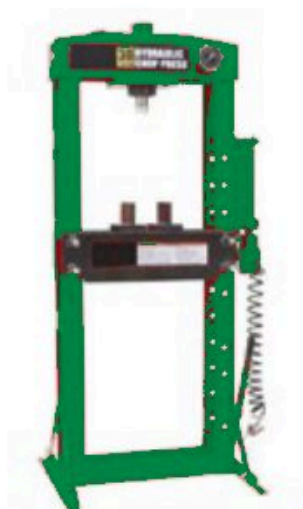
REF **MMS-HY-07552**

- Plunger can - 1 l
- For moistening cleaning cloths in the workplace without spilling

- Coated steel
- Contents: 1 l
- Ø 185 mm
- Height: 143 mm

REF **MMS-HY-07553**

PNEUMATIC PRESS WITH PUMP - 30 T



Compact and functional design ready for work

- Design that integrates all the hydraulic elements within the chassis, providing a saving in the workshop space and ensuring protection in transport
- Different pump options: single or two speed manual, manual-pneumatic and electric pumps, depending on the working speed required
- Pressure gauge with damper for optimal lifespan and positioned at eye level for easy reading
- Workbench adjustable in height

- Maximum capacity: 30 ton
- Length: 790 mm
- Stroke: 150 mm
- Work range: 0 - 940 mm
- Weight: 151 kg

REF **MMS-HY-07554**

EQUIVIS ZS



Hydraulic oil with excellent excellent anti-wear properties and a high viscosity index for all hydraulic systems operating under high pressure and at high temperatures

- Very high viscosity index
- Good shear stability
- Superior thermal stability avoiding the formation of sludge even at high temperature
- Very good oxidation stability ensuring a long service life of the fluid
- High protection against wear insuring maximum equipment life
- Excellent hydrolytic stability avoiding filter blocking
- Remarkable filterability even in the presence of water
- Excellent protection against rust and corrosion
- Good anti-foam and air release properties by using silicon free components
- Very low pour point
- Good demulsibility ensuring rapid water separation

Performance levels:

- DIN 51524-3 HVLP
- ISO 6743-4 HV, ISO 11158 HV

Sizes	REF
Equivis ZS 15 - 5 l	MMS-HY-07555
Equivis ZS 15 - 20 l	MMS-HY-07556
Equivis ZS 15 - 208 l	MMS-HY-07557
Equivis ZS 22 - 20 l	MMS-HY-07558
Equivis ZS 22 - 208 l	MMS-HY-07559

Sizes	REF
Equivis ZS 32 - 20 l	MMS-HY-07560
Equivis ZS 32 - 60 l	MMS-HY-07561
Equivis ZS 32 - 208 l	MMS-HY-07562
Equivis ZS 46 - 20 l	MMS-HY-07563
Equivis ZS 46 - 60 l	MMS-HY-07564
Equivis ZS 46 - 208 l	MMS-HY-07565

Sizes	REF
Equivis ZS 68 - 20 l	MMS-HY-07566
Equivis ZS 68 - 60 l	MMS-HY-07567
Equivis ZS 68 - 208 l	MMS-HY-07568

EQUIVIS XLT 15

Hydraulic oil for systems operating at extremely low temperatures as far down as -40 °C

- The low cold temperature viscosity is limiting the cavitation issues during the start up operations
- Low viscosity level ensures the hydraulic system to be fully operable immediately after the start-up
- Good shear stability ensuring the high temperature lubricating film thickness and the hydraulic pump efficiency during all the fluid life
- Ashless formulation offering a very high oxydation stability, reducing deposits and varnishes formation and allowing extended drain intervals
- Good wear, rust and corrosion protection of the material
- Excellent air release behaviour

Performance levels:

- DIN 51524-3 HVLP
- ISO 6743-4 HV, ISO 11158 HV

Sizes	REF
Equivis XLT 15 - 20 l	MMS-HY-07569
Equivis XLT 15 - 208 l	MMS-HY-07570

NEVASTANE SH

Synthetic (PAO) oil, suitable for hydraulic systems, compressors and pneumatic tools, especially those operating at low temperatures in the food industry

- Recommended for use where incidental food contact is possible
- Prevents contamination issues as required by the HACCP system
- 100% synthetic formulation
- Wide temperature range
- Significant extensions of oil drain intervals

Performance levels:

- KOSHER approved
- NSF H1

Sizes	REF
Nevastane SH 32 - 20 l	MMS-HY-07571
Nevastane SH 32 - 208 l	MMS-HY-07572
Nevastane SH 46 - 20 l	MMS-HY-07573
Nevastane SH 46 - 208 l	MMS-HY-07574
Nevastane SH 68 - 20 l	MMS-HY-07575
Nevastane SH 68 - 208 l	MMS-HY-07576

TRANSMISSION OIL



High-performance synthetic oil developed for synchronized or non-synchronized manual gearboxes, axles and reduction gears requiring API GL-4, GL-5, MT-1 or MIL-PRF-2105E and MIL-L 2105 D

The complete range of specialised lubricants by Total® is custom-made for the automotive and industry sectors

Total collaborates with the largest manufacturers to develop a range of products, including 'Fuel Economy' products and lubricants with low sulphate, phosphorus and sulphated ash (low SAPS) that reduce consumption and limit CO2 emissions

- Very high viscosity index
- Good shear stability

Performance levels:

- API GL-4, API GL-5, API MT-1
- SAE J2360
- MIL-L 2105 D;Approved, MIL-PRF 2105 E;Approved

Sizes	REF
MPWB - 20 l	MMS-HY-07577
MPWB - 60 l	MMS-HY-07578
MPWB - 208 l	MMS-HY-07579

BRAKE CLEANER - 500 ML



Efficient brake cleaner with high dissolving properties

- Non-conductive and non-corrosive
- Powerful spray jet for: drum and disc brakes, brake linings, calipers and shoes
- Leaves no residue
- High price/quality ratio

- Contents: 500 ml

REF MMS-HY-07580

SOLU CLEANER - 5 L

Cold parts degreaser suitable for cleaning industrial greases and dirt

- The emulsifiers in the product ensure that heavily soiled engine blocks, machines and parts are cleaned
- Absorbs four to five times its own volume of oil, grease and dirt
- Can be used in a degreaser container
- Apply manually and rinse with clean water after use
- Does not contain corrosive acid

- Contents: 5 l

REF **MMS-HY-07581**

INDUSTRIAL SPRAYER - 750 ML

Hand sprayer with brass nozzle

- Suitable for various chemicals, e.g. detergents, solvents, cleaning agents and disinfectants
- Not suitable for acetone, glycol, ammonia, brake cleaners and acids like formic acid and acetic acid
- Spray head with adjustable and manual brass spray nozzle with shut-off
- Stable conical bottle design

- Contents: 0.75 l
- Colour: orange
- Material: high density polyethylene
- Spray volume per stroke: 0.75 ml
- Dimensions (Ø x H): 100 x 290 mm
- Weight: 110 g

REF **MMS-HY-07582**

LOCTITE SF 7063 - 150 ML

General purpose parts cleaner

- For use prior to bonding and sealing applications with Loctite products
- Removes most greases, oils, lubrication fluids and metal cuttings
- Leaves no residue
- Solvent based

- Contents: 150 ml

REF **MMS-HY-07583**

LOCTITE SF 7649 - 150 ML**LOCTITE®**

Solvent-based activator for metals

- Increases cure speed on passive and inactive surfaces
- For large bond gaps
- For low-temperature curing (< 15 °C)

- Contents: 150 ml

REF **MMS-HY-07584****LOCTITE 577 - 50 ML****LOCTITE®**

Medium-strength thread sealant

- General purpose liquid thread sealant for metals
- Suitable for fast application at low temperatures
- Slow-curing
- Instant low-pressure seal for metal pipes and fittings
- Excellent chemical and thermal resistance
- Locks connection against vibration-induced loosening

- Contents: 50 ml
- Max thread size: M80/R3
- Operating temperature: -55° up to 180 °C
- DWG approval (EN751-1) NG-5146AR0621

REF **MMS-HY-07585****LOCTITE 542 - 50 ML****LOCTITE®**

Medium-strength thread sealant

- Ideal for fine threads as used in hydraulic, pneumatic and general fittings
- Suitable for metal threads only
- Fast-curing
- Instant low-pressure seal
- Resistant to fuel, oil, coolants and hydraulic fluids
- Locks connection against vibration-induced loosening

- Contents: 50 ml
- Max thread size: M26/R3/4
- Operating temperature: -55° up to 150 °C
- DVGW approval (EN 751-1): NG-5146AR0855

REF **MMS-HY-07586**

LOCTITE 243**LOCTITE®**

Medium-strength threadlocking adhesive

- General purpose
- Suitable for all metal threaded assemblies
- Prevents loosening due to vibration
- Permits disassembly with hand tools

- Max thread size: M36
- Operating temperature: -55° up to +180 °C

- NSF: P1 - Reg n° 123000

Loctite 243 - 10 ml
Loctite 243 - 50 ml

REFMMS-HY-07587
REFMMS-HY-07588

LOCTITE SI 5075**LOCTITE®**

Insulation and sealing tape used for carrying out emergency repairs

- Self-fusing silicone rubber wrap for temporary repairs on flexible hoses and pipes
- Resistant to UV light, salt water, fuels and acids
- Non-sticky multi-purpose wrap for tape-based repair situations
- Offers dielectric strength up to 15 kV/mm

- Width: 250 mm
- Length: 4.27 m
- Temperature resistance: -54° up to +260 °C

Loctite SI 5075 - red
Loctite SI 5075 - black

REFMMS-HY-07589
REFMMS-HY-07590

RAGS - 10 KG

Bag of fabric cloths

- Free of buttons, zippers and hard components
- Different qualities, for all activities

- Weight: 10 kg

REFMMS-HY-07591

WORKSHOP & WAREHOUSE SUPPLIES AND PPE

ABSORBING TOWELS - 100 PIECES



Absorbing towels to cleans spills

- Absorbs about everything (oil, liquids, acids ...)
- 100 pieces
- Dimensions (L x W): 410 x 510 mm

REF **MMS-HY-07592**

ABSORBING BARREL MATS - 25 PIECES



Round mats to put on top of a 220 l barrel

- 1 mat absorbes 1 l oil
- 25 pieces
- Weight: 84 g

REF **MMS-HY-07593**

ABSORBING GRANULES - 20 KG



Multipurpose absorbing agent

Soaks up spills on any solid surface

- Contents: 20 kg
- Absorption capacity oil: 67%
- Absorption capacity water: 91%
- Grain size: 1 - 3 mm

REF **MMS-HY-07594**

SPILL KIT FOR OIL - 20 L



Absorbing kit, ensures a quick response in case of spillage of oils and other hazardous fluids
In a handy bag

Contains:

- 30 absorbing pads to absorb large amounts of fluids - 30 x 30 cm - yellow cloths absorb all fluids
- 1 absorbing sock to curb the spill - 8 cm x 1.2 m
- 5 cleaning rags to absorb small amounts of fluid
- 1 pair of gloves
- 2 recycling bags - 30 l

- Capacity: 20 l

REF **MMS-HY-07595**

HAND CLEANING TISSUES - 100 PIECES



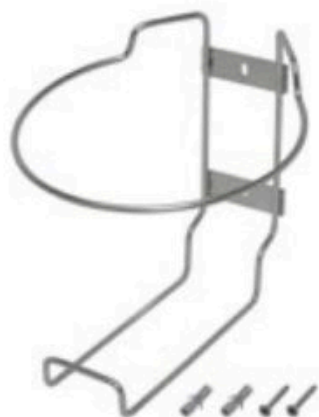
Suitable for removing paint, tar, rust, glue, grease, oil, lubricants etc.

- Wipes in non-woven fabric
- Fast and easy cleaning without water and soap
- With citrus solvent
- Antibacterial additive
- Tested according to EN 1276 and EN 12504
- Cleaning power: ++++

- Dimensions wipes: 27 x 27 cm

REF **MMS-HY-07596**

WALL BRACKET FOR HAND CLEANING TISSUES



Stainless steel wall bracket
Can be used for REF **MMS-HY-07596**

REF **MMS-HY-07597**

CLEANING TISSUE - 2 ROLLS

Recycled, 2 layered cleaning tissue

- Length: 600 m
- Width: 240 mm
- Colour: white

REF **MMS-HY-07598**

- Length: 180 m
- Width: 300 mm
- Colour: blue

REF **MMS-HY-07599**

O-RING GAUGE

From diameter 2 to 20 mm
From diameter 20 to 100 mm
From diameter 100 to 160 mm

REF **MMS-HY-07600**
REF **MMS-HY-07601**
REF **MMS-HY-07602**

SEAL CLASPER

Tool for clasping PTFE piston seals back into the groove

REF **MMS-HY-06478**

SEAL ASSEMBLY KIT

Easy fitting and detaching of seals without any damage

REF **MMS-HY-06476**

PIPE BENDING TOOL

Designed to bend hydraulic pipes for diameter 6-18 mm
 • With 6 bending rollers for tubes with outside diameter from 6 to 18 mm

REF **MMS-HY-07604**

PIPE BENDING TOOL

Sizes	Radius
ø 12 mm	6 mm
ø 16 mm	8 mm
ø 20 mm	10 mm
ø 24 mm	12 mm
ø 30 mm	15 mm

Designed to bend hydraulic pipes to 180° for diameter 6 mm up to 15 mm
 • Extra small bend radius $R=2D$
 • Can be used in a bench-vice
 • Possible to bend to the right and to the left
 • Easily replaceable bend mould, clamp block and bend arm
 • Unique system ensuring qualitative bending with minimal efforts
 • Available as a set or per diameter
 • Other bend radii and diameters on request
 • Optional: Stroke length of 500 mm with 1 stroke / Loose strokes

REF **MMS-HY-07603**

CRIMPING TOOLS



HAND CRIMPING MACHINE

Description:

- Compact crimper with handpump

Contains:

- Crimper
- Hand pump
- Die sets (mm): 16 - 19 - 23 - 27 - 31 - 37
- Drawer to store dies sets
- Table base
- Grease

Technical data:

- Max. hose size: 1"
- Die type: 16
- Crimping force: 1200 kN
- Length: 400 mm
- Width: 350 mm
- Height: 320 mm
- Weight: 43 kg
- Setup by micrometer
- Optical signal when the press size is reached

REF **MMS-HY-02196**



CRIMPING MACHINE

Description:

- Compact crimper with pneumatic pump

Contains:

- Crimper
- Air pump
- Die sets (mm): 16 - 19 - 23 - 27 - 31 - 37
- Drawer to store dies sets
- Table base
- Grease

Technical data:

- Max. hose size: 1"
- Die type: 16
- Crimping force: 1200 kN
- Length: 400 mm
- Width: 350 mm
- Height: 320 mm
- Weight: 43 kg
- Setup by micrometer
- Optical signal when the press size is reached

REF **MMS-HY-02197**

CRIMPING TOOLS



PORTABLE CRIMPING MACHINE

Description:

- Portable crimping machine with handpump

Contains:

- Crimper
- Handpump
- Die sets (mm): 16 - 19 - 23 - 27 - 31 - 37
- Grease

Technical data:

- Max. hose size: 1"
- Die type: 16
- Crimping force: 1200 kN
- Length: 220 mm
- Width: 250 mm
- Height: 310 mm
- Weight: 26 kg
- Setup by micrometer
- Optical signal when the press size is reached

REF **MMS-HY-02198**



PORTABLE PNEUMATIC CRIMPING MACHINE

Description:

- Portable crimper with pneumatic pump

Contains:

- Crimper
- Pneumatic pump
- Die sets (mm): 16 - 19 - 23 - 27 - 31 - 37
- Grease

Technical data:

- Max. hose size: 1"
- Die type: 16
- Crimping force: 1200 kN
- Length: 220 mm
- Width: 250 mm
- Height: 310 mm
- Weight: 26 kg
- Setup by micrometer
- Optical signal when the press size is reached

REF **MMS-HY-02199**

CRIMPING TOOLS



PORTABLE CRIMPING MACHINE WITH HAND AND AIR PUMP

Description:

- Portable crimper with hand pump and air pump

Contains:

- Crimper
- Hand pump
- Air pump
- Die sets (mm): 16 - 19 - 23 - 27 - 31 - 37
- Drawer to store dies sets
- Bolts die sets
- Grease

Technical data:

- Min. hose size: 1/4" (DN6)
- Max. hose size: 1" (DN25)
- Setup by micrometer
- Optical signal when the press size is reached
- Easy to switch from hand pump to air pump
- Crimping force: 1200 kN
- Extra die sets on demand

REF [MMS-HY-02200](#)

Spare parts for 16 series:

- Die set 7 mm: REF [MMS-HY-02205](#)
- Die set 10 mm: REF [MMS-HY-02206](#)
- Die set 12 mm: REF [MMS-HY-02207](#)
- Die set 14 mm: REF [MMS-HY-02208](#)
- Die set 16 mm: REF [MMS-HY-02209](#)
- Die set 19 mm: REF [MMS-HY-02210](#)
- Die set 23 mm: REF [MMS-HY-02211](#)
- Die set 27 mm: REF [MMS-HY-02212](#)
- Die set 31 mm: REF [MMS-HY-02213](#)
- Die set 37 mm: REF [MMS-HY-02214](#)
- Hand pump: REF [MMS-HY-02215](#)
- Air pump: REF [MMS-HY-02216](#)
- Bolts: REF [MMS-HY-02217](#)
- Grease: REF [MMS-HY-02218](#)
- Seal kit: REF [MMS-HY-02219](#)
- Micrometer: REF [MMS-HY-02220](#)



ELECTRIC CRIMPING MACHINE

Description:

- Crimper, workbench model
- Powered by a 3-phase motor at 380 V (220 VAC on request)

Contains:

- Crimper
- Die sets (mm): 14 - 16 - 19 - 22 - 26 - 30 - 34 - 39 - 45
- Dies quick change tool
- Footpedal
- Grease

Technical data:

- Max. hose size: 1 1/4"
- Die type: 32
- Voltage: 380 V
- Crimping force: 1700 kN
- Motor: 3.6 kW
- Length: 610 mm
- Width: 600 mm
- Height: 600 mm
- Weight: 190 kg
- Oil capacity: 40 l - Comes without oil

Option:

- Hydraulic oil 20 l: REF [MMS-HY-02201](#)
- Dies quick change tool: REF [MMS-HY-02202](#)
- Rack for machine: REF [MMS-HY-02203](#)

REF [MMS-HY-02204](#)

CRIMPING TOOLS



ELECTRIC CRIMPING MACHINE

Description:

- For small to medium workshop productions
- Powered by a 3-phase motor at 380 V (220 VAC on request)

Contains:

- Crimper
- Die sets (mm): 14 - 16 - 19 - 22 - 26 - 30 - 34 - 39 - 45
- Dies quick change tool
- Stand with dies holder
- Footpedal
- Grease

Technical data:

- Max. hose size: 1 1/4"
- Die type: 32
- Voltage: 380 V
- Crimping force: 1700 kN
- Motor: 3.6 kW
- Length: 680 mm
- Width: 600 mm
- Height: 1350 mm
- Weight: 226 kg
- Oil capacity: 40 l - Comes without oil

Option:

- Hydraulic oil 20 l: REF [MMS-HY-02201](#)

REF [MMS-HY-02221](#)



ELECTRIC CRIMPING MACHINE

Description:

- For medium workshop productions
- Powered by a 3-phase motor at 380 V (220 VAC on request)

Contains:

- Crimper
- Die sets (mm): 14 - 16 - 19 - 22 - 26 - 30 - 34 - 39 - 45 - 51 - 63 - 69
- Dies quick change tool
- Stand with dies holder
- Footpedal
- Grease

Technical data:

- Max. hose size: 2"
- Die type: 32
- Voltage: 380 V
- Crimping force: 2200 kN
- Motor: 3.6 kW
- Length: 680 mm
- Width: 600 mm
- Height: 1400 mm
- Weight: 263 kg
- Oil capacity: 40 litre - Comes without oil

Option:

- Hydraulic oil 20 l: REF [MMS-HY-02201](#)

REF [MMS-HY-02222](#)

Spare parts for YL20 - YL20S - YL32 series:

- Die set 6 mm: REF [MMS-HY-02223](#)
- Die set 7 mm: REF [MMS-HY-02224](#)
- Die set 10 mm: REF [MMS-HY-02225](#)
- Die set 12 mm: REF [MMS-HY-02226](#)
- Die set 14 mm: REF [MMS-HY-02227](#)
- Die set 16 mm: REF [MMS-HY-02228](#)
- Die set 19 mm: REF [MMS-HY-02229](#)

- Die set 22 mm: REF [MMS-HY-02230](#)
- Die set 26 mm: REF [MMS-HY-02231](#)
- Die set 30 mm: REF [MMS-HY-02232](#)
- Die set 34 mm: REF [MMS-HY-02233](#)
- Die set 39 mm: REF [MMS-HY-02234](#)
- Die set 45 mm: REF [MMS-HY-02235](#)
- Die set 51 mm: REF [MMS-HY-02236](#)
- Die set 57 mm: REF [MMS-HY-02237](#)

Spare parts for YL32 series:

- Die set 63 mm: REF [MMS-HY-02238](#)
- Die set 69 mm: REF [MMS-HY-02239](#)
- Die set 74 mm: REF [MMS-HY-02240](#)
- Die set 78 mm: REF [MMS-HY-02241](#)

- Bolts: REF [MMS-HY-02242](#)
- Master die pin (set 8 with 8 pieces): REF [MMS-HY-02243](#)
- Grease: REF [MMS-HY-02218](#)
- Foot pedal: REF [MMS-HY-02244](#)
- Seal kit: REF [MMS-HY-02245](#)
- Hydraulic oil: REF [MMS-HY-02201](#) (machine needs 40l)

CUTTING TOOL



CUTTING MACHINE FOR HYDRAULIC HOSE

Description:

- Cutting machine for cutting hydraulic hoses upto 2"
- Powered by a 3-phase motor at 380 V

Technical data:

- Max. hose size: 2" - 4SH
- Blade dimensions: 350 x 2.5 x 32 mm
- Motor: 4 kW
- Voltage: 380 V
- Rotation speed: 2800 rpm for 50 Hz
- Length: 720 mm
- Width: 480 mm
- Height: 530 mm
- Weight: 55 kg
- Spare part: saw blade

REF [MMS-HY-02246](#)

REF [MMS-HY-02247](#)

SKIVING TOOLS



HOSE SKIVING MACHINE

Description:

- Electric hose skiving machine

Technical data:

- Max. hose size: 2" - 4SP - 4SH
- External skiving: 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
- Motor: 0.4 kW
- Voltage: 380 V
- Rotation speed: 284 rpm
- Length: 500 mm
- Width: 660 mm
- Height: 650 mm
- Weight: 110 kg

Option:

- Internal skiving: 3/4", 1", 1 1/4", 1 1/2", 2" REF [MMS-HY-02248](#)

* Request this option to your customer service

REF [MMS-HY-02249](#)

SKIVING TOOLS



HOSE SKIVING MACHINE

Description:

- Manual internal and external skiving machine with stand

Technical data:

- External skiving: 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
- Internal skiving: 3/4", 1", 1 1/4", 1 1/2", 2"
- Length: 450 mm
- Width : 245 mm
- Height : 260 mm
- Weight: 12 kg

REF [MMS-HY-02250](#)

RACK



RACK TO STOCK HOSES

Technical data:

- Height: 2110 mm
- Width: 1180 mm
- Weight: 98 kg
- Recommended load per tray: 70 kg
- Maximum load per tray: 100 kg
- Recommended total load: 600 kg

REF [MMS-HY-02251](#)

VACUUM PUMPS



PNEUMATIC 'ASPI-QUICK' VACUUM PUMP

Technical data:

- Supplied with Hydroclips case type M
- Suitable for 5 to 8 bar air inlet
- Vacuum pressure: -650 mbar (relative) -850 mbar (max.)
- Airflow: 28 lpm
- Vacuum pressure gauge: -1 to 0 bar
- Dimensions (l x w x h): 140 x 70 x 65 mm
- Supplied with Ø 80 mm magnetic cap
- Weight: 3.78 kg

REF **MMS-HY-02254**



VACUUM PUMP FOR REPAIRING OR MAINTENANCE OF HYDRAULIC CIRCUIT

Description:

- Hydraulic intervention without the need to drain the oil in the reservoir
- No leaks while operating
- The oil is retained in the reservoir through drop of pressure
- Easy changeover of the magnet cap and the other plugs using clamp inserts
- Control of the Vacuum using a pressure gauge and a vent valve

Technical details:

- Voltage 12 VDC Power 75 W
- Max. relative vacuum: 770 mbar
- Air flow: 34 l/min
- Length of the supply cable with crocodile clips: 8 m
- Coil hose: 4 m
- Display of the vacuum value with a pressure gauge scaled from -1 to 0 bar
- Carrying case with cable compartment
- Dimension of the case: 508 x 203 x 230 mm
- Weight: 9 kg
- With magnet cap Ø 80 mm and cylindrical stubs

REF **MMS-HY-02255**

VACUUM PUMPS



CONE FOR VACUUM PUMP DIAMETER 10 TO 75 MM

Description:

- Easily adapts to any type of tank opening from 10 to 75 mm diameter

Technical details:

- Total height 87 mm
- Elastomer material
- 2 x swivel elbow connectors: diameter 6 mm & 8 mm

REF [MMS-HY-02256](#)

FILTER PUMPS



FILTER PUMP

Technical details:

- Load of 30 liters per minute
- Maximum pressure: 3 bar
- Protection: IP55
- single phase engine (0.75 Kx till 1450 T/min)
- Dimensions: h=855 mm, l=320 mm, Ep=300 mm
- Weight: 25 kg

Delivered with filter cartouche (REF [MMS-HY-02256](#); REF [MMS-HY-02258](#))

REF [MMS-HY-02259](#)