

McHUGH

C O M P O N E N T S

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Hydraulics

2010

HYDRAULICS

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IMM

Hypress



Mc Hugh Components are proud to be the sole distributor of the IMM product package of Hypress Hose and IMM Fittings on the island of Ireland. IMM Hydraulics is a multi-national company which is one of the few manufacturers of both hydraulic hoses and hose fittings for hydraulic applications. Their consistent study of new and innovative ideas and technologies places IMM standards as one of the most influential international benchmarks in the production of fluid connection systems. The IMM Group has manufacturing plants that cover more than 80,000Sq Metres of floor space with over 500 machines and assembly systems.

Hypress by understanding market dynamics and needs through its strong, specialized and reliable team with wide reaching distribution channels – supplies products and assistance to all industries requiring fluid line components and hose fittings.

- Agricultural and Earth Moving Equipment
- Forest and Garden Equipment
- Marine
- Industry
- Automotive



The continuous expansion and improvement of their product range has allowed them to integrate their expertise in production and quality control to establish the compatibility of their products by using their self developed control methods and testing machines.



Hypress 1SN Hydraulic Hose

Manufactured to: EN 853 1SN - DIN 20022 - exceeds SAE 100 R1AT specification
 Application: System using hydraulic oil (for other fluids please contact a member of our Sales Team)
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 1 steel wire braid
 External covering: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions
 Operating temperature: -40°C to +100°C

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
1/4"	6.4	04	13.4	225	3263	900	13050	100	0.226	1SN04
3/8"	9.5	06	17.4	180	2610	720	10440	130	0.335	1SN06
3/4"	19.0	12	27.7	105	1523	420	6090	240	0.638	1SN12

Recommended ferrule: 0011 - non skive 0001 - skive
 Alternative: 0022 - non skive



*Super Compact Light Weight hose
with short bend radius*

Hypress 1SC Hydraulic Hose

Manufactured to: Exceeds EN 857 1SC specification
 Application: System using hydraulic oil (for other fluids please contact a member of our Sales Team)
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 1 steel wire braid
 External covering: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions
 Operating temperature: -40°C to +100°C

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
1/4"	6.4	04	12.4	225	3263	900	13050	75	0.196	1SC04
5/16"	8.0	05	14.0	210	3045	840	12180	85	0.220	1SC05
3/8"	9.5	06	15.6	180	2610	720	10440	90	0.277	1SC06
1/2"	12.7	08	18.7	160	2320	640	9280	130	0.348	1SC08
5/8"	16.0	10	21.5	130	1885	520	7540	150	0.399	1SC10
3/4"	19.0	12	25.0	105	1523	420	6090	180	0.481	1SC12
1"	25.4	16	34.0	88	1276	352	5104	230	0.680	1SC16

Recommended ferrule: 001K - non skive 0001 - skive



*Super Compact Light Weight hose
with short bend radius*

Hypress 2SC Hydraulic Hose

Manufactured to: EN 857 2SC - exceeds SAE 100 R16 specification
 Application: System using hydraulic oil (for other fluids please contact a member of our Sales Team)
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 2 High tensile steel wire braid
 External covering: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions
 Operating temperature: -40°C to +100°C

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
1/4"	6.4	04	13.3	400	5800	1600	23200	50	0.295	2SC04
5/16"	8.0	05	14.8	350	5075	1400	20300	60	0.345	2SC05
3/8"	9.5	06	17.1	330	4785	1320	19140	70	0.415	2SC06
1/2"	12.7	08	20.4	275	3988	1100	15950	80	0.540	2SC08
1/2"	12.7	08	20.4	275	3988	1100	15950	80	0.540	2SC08M*
5/8"	16.0	10	23.5	250	3625	1000	14500	100	0.625	2SC10
3/4"	19.0	12	27.6	215	3118	860	12470	120	0.800	2SC12
1"	25.4	16	35.8	165	2393	660	9570	160	1.165	2SC16
1 1/4"	31.8	20	43.1	160	2320	640	9280	250	1.100	2SC20*

Recommended ferrule: 0022 - non skive 0001 - skive

* Note: 2SC08M has a MEGA COVER which is ozone and UV resistance and water resistance make this cover a good choice in cases of heavy working ambient such as Marine and in-oil application.

* Note: 2SC20 is HIPAC 2SC hose



Specially developed for use on Pressure Washer Cleaners

Hypress Cleaning 1SC Hydraulic Hose

Manufactured to: Exceeds EN 857 1SC specification
 Application: Pressure washers
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 1 steel wire brand
 External covering: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions
 Operating temperature: -40°C to +155°C

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
1/4"	6.4	04	12.4	250	3625	750	10875	75	0.196	1SC04SJ
5/16"	8.0	05	14.0	250	3625	750	10875	85	0.220	1SC05SJ
3/8"	9.5	06	15.6	250	3625	750	10875	90	0.277	1SC06SJ
1/2"	12.7	08	18.7	250	3625	750	10875	130	0.348	1SC08SJ
BLUE										
1/4"	6.4	04	12.4	250	3625	750	10875	75	0.196	1SC04SJBLUE
5/16"	8.0	05	14.0	250	3625	750	10875	85	0.220	1SC05SJBLUE
3/8"	9.5	06	15.6	250	3625	750	10875	90	0.277	1SC06SJBLUE
1/2"	12.7	08	18.7	250	3625	750	10875	130	0.348	1SC08SJBLUE

Recommended ferrule: 001K - non skive 0001 - skive



Specially developed for use on Pressure Washer Cleaners

Hypress Cleaning 2SC Hydraulic Hose

Manufactured to: Exceeds EN 857 2SC specification
 Application: Pressure washers
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 2 High tensile steel wire brands
 External covering: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions
 Operating temperature: -40°C to +155°C

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
1/4"	6.5	04	13.4	400	5800	1200	17400	85	0.295	2SC04SJ
5/16"	8.0	05	15.0	400	5800	1200	17400	85	0.345	2SC05SJ
3/8"	9.5	06	17.4	400	5800	1200	17400	90	0.415	2SC06SJ
1/2"	12.7	08	20.6	400	5800	1200	17400	130	0.540	2SC08SJ
BLUE										
1/4"	6.5	04	13.4	400	5800	1200	17400	85	0.295	2SC04SJBLUE
5/16"	8.0	05	15.0	400	5800	1200	17400	85	0.345	2SC05SJBLUE
3/8"	9.5	06	17.4	400	5800	1200	17400	90	0.415	2SC06SJBLUE
1/2"	12.7	08	20.6	400	5800	1200	17400	130	0.540	2SC08SJBLUE

Recommended ferrule: 0022 - non skive 0001 - skive



Special outer cover dramatically increases life span

Hypress 1SC Long Life™ Hydraulic Hose

Manufactured to: Hypress Longlife™ - exceeds EN857 1SC
 Application: System using hydraulic oil (for other fluids please contact a member of our Sales Team)
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 1 High tensile steel wire braid
 External covering: Smooth synthetic rubber resistant to oils, fuel and atmospheric conditions
 Operating temperature: -40°C to +100°C (Intermittent to +125°C)

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
			mm	bar	psi	bar	psi	mm	Kg/m	
1/4"	6.4	04	12.3	250	3600	1000	14500	75	0.174	1SC04LL
5/16"	8.0	05	13.5	250	3600	1000	14500	85	0.216	1SC05LL
3/8"	9.5	06	15.7	250	3600	1000	14500	90	0.249	1SC06LL
1/2"	12.7	08	18.9	200	2880	800	11600	130	0.339	1SC08LL
BLUE										
1/4"	6.4	04	12.3	250	3600	1000	14500	75	0.174	1SC04LLBLUE
5/16"	8.0	05	13.5	250	3600	1000	14500	85	0.216	1SC05LLBLUE
3/8"	9.5	06	15.7	250	3600	1000	14500	90	0.249	1SC06LLBLUE
1/2"	12.7	08	18.9	200	2880	800	11600	130	0.339	1SC08LLBLUE

Recommended ferrule: 001K - non skive 0001 - skive



Special outer cover dramatically increases life span

Hypress 2SC Long Life™ Hydraulic Hose

Manufactured to: Hypress Longlife™ - exceeds EN857 2SC
 Application: System using hydraulic oil (for other fluids please contact a member of our Sales Team)
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 2 High tensile steel wire braid
 External covering: Smooth synthetic rubber resistant to oils, fuel and atmospheric conditions
 Operating temperature: -40°C to +100°C (Intermittent to +125°C)





ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
			mm	bar	psi	bar	psi	mm	Kg/m	
1/4"	6.4	04	13.3	430	6235	1720	24940	75	0.280	2SC04LL
5/16"	8.0	05	14.8	400	5800	1600	23200	85	0.330	2SC05LL
3/8"	9.5	06	17.1	350	5075	1400	20300	90	0.420	2SC06LL
1/2"	12.7	08	20.4	310	4495	1240	17980	130	0.520	2SC08LL
5/8"	16.0	10	23.5	280	4060	1120	16240	170	0.610	2SC10LL
3/4"	19.0	12	27.6	240	3480	960	13920	200	0.790	2SC12LL
1"	25.4	16	35.8	185	2683	740	10730	250	1.100	2SC16LL
BLUE										
1/4"	6.4	04	13.3	430	6235	1720	24940	75	0.280	2SC04LLBLUE
5/16"	8.0	05	14.8	400	5800	1600	23200	85	0.330	2SC05LLBLUE
3/8"	9.5	06	17.1	350	5075	1400	20300	90	0.420	2SC06LLBLUE
1/2"	12.7	08	20.4	310	4495	1240	17980	130	0.520	2SC08LLBLUE
5/8"	16.0	10	23.5	280	4060	1120	16240	170	0.610	2SC10LLBLUE
3/4"	19.0	12	27.6	240	3480	960	13920	200	0.790	2SC12LLBLUE
1"	25.4	16	35.8	185	2683	740	10730	250	1.100	2SC16LLBLUE

Recommended ferrule: 0022 - non skive 0001 - skive



Hypress Thermoplastic Hydraulic Hose

Manufactured to: EN 855 - exceeds SAE 100 R7 specification
 Application: Construction and agricultural equipment, agricultural brake system, forklift trucks, articulating and telescopic booms, aerial platforms, scissor lifts, cranes, general hydraulics, industrial gasses (check for compatibility)
 Internal tube: Polyester elastomer
 Reinforcement: One or two braids of synthetic fibre
 External covering: Polyurethane, black, pinpricked, white ink-jet branding
 Operating temperature: -40°C to +100°C continuous (+70°C for water based fluids)
 Recommended fluid: Hydraulic fluid petroleum based, glycol-water based, lubricant





ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
										
Inch	mm		mm	bar	psi	bar	psi	mm	Kg/m	
3/16"	5.0	03	9.6	210	3045	840	12180	25	0.060	2R703
1/4"	6.5	04	12.2	210	3045	840	12180	35	0.100	2R704
5/16"	8.1	05	14.3	190	2755	760	11020	45	0.130	2R705
3/8"	9.7	06	16.0	160	2320	640	9280	55	0.150	2R706
1/2"	13.0	08	20.3	140	2030	560	8120	75	0.220	2R708
5/8"	16.3	10	23.7	105	1523	420	6090	110	0.280	2R710
3/4"	19.5	12	27.1	90	1305	360	5220	140	0.335	2R712
1"	25.9	16	34.0	70	1015	280	4060	190	0.455	2R716

Recommended ferrule: 0007



Hypress Thermoplastic Twin Hydraulic Hose

Manufactured to: EN 855 - exceeds SAE 100 R7 specification
 Application: Construction and agricultural equipment, agricultural brake system, forklift trucks, articulating and telescopic booms, aerial platforms, scissor lifts, cranes, general hydraulics, industrial gasses (check for compatibility)
 Internal tube: Polyester elastomer
 Reinforcement: Two braids of synthetic fibre
 External covering: Polyurethane, black, pinpricked, white ink-jet branding
 Operating temperature: -40°C to +100°C continuous (+70°C for water based fluids)
 Recommended fluid: Hydraulic fluid petroleum based, glycol-water based, lubricant

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
										
Inch	mm		mm	bar	psi	bar	psi	mm	Kg/m	
3/16"	5.0	03	10.0	210	3045	840	12180	35	0.120	2R70303
1/4"	6.5	04	11.8	210	3045	840	12180	50	0.200	2R70404
5/16"	8.1	05	14.3	190	2755	760	11020	55	0.260	2R70505
3/8"	9.7	06	16.0	160	2320	640	9280	75	0.300	2R70606
1/2"	13.0	08	20.3	140	2030	560	8120	95	0.440	2R70808

Recommended ferrule: 0007



Exceeds 2SN specification.
Certified to 1,000,000 cycles

Hypress Kaizen Hydraulic Hose

Manufactured to: Exceeds EN 853 2SN specification
 Application: Medium to high pressure applications, long life service up to 1,000,000 cycles
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 2 high tensile steel wire braids
 External covering: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions
 Operating temperature: -40°C to +100°C (Intermittent to +125°C)

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
3/16"	4.8	03	13.4	420	6090	1680	24360	90	0.310	2SN03HP
1/4"	6.4	04	15.0	420	6090	1680	24360	100	0.330	2SN04HP
5/16"	8.0	05	16.6	360	5220	1440	20880	115	0.390	2SN05HP
3/8"	9.5	06	19.0	350	5075	1400	20300	130	0.500	2SN06HP
1/2"	12.7	08	22.2	290	4205	1160	16820	180	0.590	2SN08HP
5/8"	16.0	10	25.4	250	3625	1000	14500	200	0.710	2SN10HP
3/4"	19.0	12	29.3	215	3118	860	12470	240	0.860	2SN12HP
1"	25.4	16	38.1	175	2538	700	10150	300	1.280	2SN16HP
1 1/4"	31.8	20	48.3	140	2030	560	8120	420	2.020	2SN20HP
1 1/2"	38.1	24	54.6	90	1305	360	5220	500	2.230	2SN24HP
2"	50.8	32	67.3	80	1160	320	4640	630	2.850	2SN32HP

Recommended ferrule: 0022 - non skive 0002 - skive



Exceeds 2SC specification.
Certified to 1,000,000 cycles

Hypress HIPAC Hydraulic Hose

Manufactured to: Exceeds DIN EN 857 2SC specification
 Application: Non skive compact hose for high pressure certified up to 1,000,000 cycles
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 2 high tensile steel wire braids
 External covering: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions
 Operating temperature: -40°C to +100°C (Intermittent to +125°C)

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
1/4"	6.4	04	13.3	430	6235	1720	24940	50	0.280	2SC04HP
5/16"	8.0	05	14.8	400	5800	1600	23200	60	0.330	2SC05HP
3/8"	9.5	06	17.1	350	5075	1400	20300	70	0.420	2SC06HP
1/2"	12.7	08	20.4	310	4495	1240	17980	80	0.520	2SC08HP
5/8"	16.0	10	23.5	280	4060	1120	16240	100	0.610	2SC10HP
3/4"	19.0	12	27.6	240	3480	960	13920	120	0.790	2SC12HP
1"	25.4	16	35.8	185	2683	740	10730	160	1.100	2SC16HP
1 1/4"	31.8	20	43.6	170	2465	680	9860	280	1.800	2SC20HP

Recommended ferrule: 0022 - non skive 0001 - skive



Hypress 4SP Multispiral Hydraulic Hose

Manufactured to: Exceeds EN 856 4SP - DIN 20023-4SP - specification
 Application: High pressure applications
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 4 steel wire spirals
 External covering: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions
 Operating temperature: -40°C to +100°C (Intermittent to +125°C)

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
1/4"	6.4	04	17.8	450	6525	1780	25810	150	0.615	4SP04
3/8"	9.5	06	21.4	445	6453	1780	25810	180	0.850	4SP06
1/2"	12.7	08	24.6	415	6018	1660	24070	230	0.935	4SP08
5/8"	16.0	10	28.5	350	5075	1400	20300	250	1.146	4SP10
3/4"	19.0	12	32.1	350	5075	1400	20300	300	1.554	4SP12
1"	25.4	16	39.7	280	4060	1120	16240	340	2.033	4SP16
1 1/4"	31.8	20	50.8	210	3045	840	12180	460	3.176	4SP20
1 1/2"	38.1	24	57.1	185	2683	740	10730	560	3.657	4SP24
2"	50.8	32	70.6	165	2393	660	9570	660	5.137	4SP32

Recommended ferrule: 0009 - Short tail skive 0019 - Long tail skive BMC1 - non skive (3/4" & 1" only)



Hypress 4SH Multispiral Hydraulic Hose

Manufactured to: Exceeds EN 856 4SH - DIN 20023-4SH - specification
 Application: High pressure applications
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 4 steel wire spirals
 External covering: Synthetic rubber, resistant to oils, fuels and atmospheric conditions
 Operating temperature: -40°C to +100°C (Intermittent to +125°C)

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
3/4"	19.0	12	32.2	420	6090	1780	25810	220	1.556	4SH12
1"	25.4	16	38.7	380	5510	1750	25375	260	2.087	4SH16
1 1/4"	31.8	20	45.5	325	4713	1380	20010	430	2.571	4SH20
1 1/2"	38.1	24	53.5	290	4205	1250	18125	560	3.439	4SH24
2"	50.8	32	68.1	250	3625	1000	14500	700	4.903	4SH32

Recommended ferrule: 0019 - Long tail skive



Hypress HIPAC 3SK Hydraulic Hose

Application: Generic high pressure applications
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 3 high tensile steel wire braids
 External covering: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions
 Operating temperature: -40°C to +100°C (Intermittent to +125°C)

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	APPROX WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
3/8"	9.5	06	18.8	500	7250	2000	29000	110	0.680	3SK06
1/2"	12.7	08	22.0	475	6888	1900	27550	140	0.810	3SK08
5/8"	16.0	10	24.7	420	6090	1680	24360	200	1.000	3SK10
3/4"	19.0	12	29.3	380	5510	1520	22040	240	1.220	3SK12
1"	25.4	16	36.2	315	4568	1260	18270	300	1.710	3SK16

Recommended ferrule: 0002 - skive BMC1 - non skive (1" only)



Suction & Delivery Hy-Vacuum Hydraulic Hose

Manufactured to: Exceeds SAE 100 R4 specification
 Application: Suction, delivery, return & discharge of petroleum base hydraulic fluids
 Internal tube: Oil resistant synthetic rubber
 Reinforcement: 2 textile braids and 1 spiral braid
 External covering: Synthetic rubber, resistant to oils, fuels and atmospheric conditions
 Operating temperature: -40°C to +100°C (+70° for water based fluids)

ID		DASH SIZE	OD	MAX WORKING PRESSURE		MIN BURST PRESSURE		MIN BEND RADIUS	WEIGHT	PART NUMBER
Inch	mm			bar	psi	bar	psi			
3/4"	19.0	12	34.9	21	315	84	1260	127	0.750	2R412
1"	25.4	16	41.3	17	255	68	1020	152	0.930	2R416
1 1/4"	31.8	20	50.8	14	210	56	840	203	1.250	2R420
1 1/2"	38.1	24	57.2	10	157	42	630	254	1.540	2R424
2"	50.8	32	69.6	7	105	28	420	305	2.000	2R432
2 1/2"	63.5	24	82.6	4	60	16	240	356	2.500	2R440

Recommended ferrule: 0003

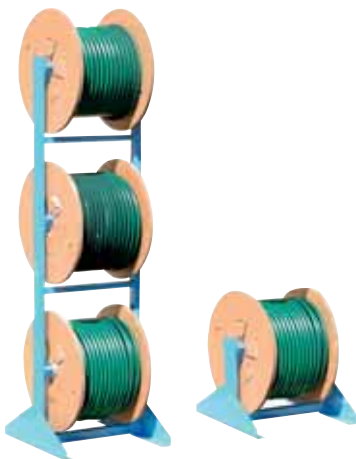
Hose Storage Units & Reels

McHugh Components offer a convenient solution to the problem of stocking Hydraulic Hose. We will supply a Frame FREE OF CHARGE for customer use. This Frame for economical reasons will remain the property of McHugh Components. This Frame will allow you to hold 1 or 3 Reels of Hydraulic Hose. When you wish to reorder hose, we will supply you with a new Reel complete with Hose.

The Reels are suitable for storing the following size hose.

- 1/4" - 50 metres (Maximum per Reel 110 metres)
- 3/8" - 50 metres (Maximum per Reel 100 metres)
- 1/2" - 50 metres (Maximum per Reel 80 metres)
- 5/8" - 30 metres (Maximum per Reel 30 metres)

DESCRIPTION	PART NUMBER
1 Reel Hose Storage unit	OBS001
3 Reel Hose Storage unit	OBS003
Cardboard Hose Reel (Along with the hose you require)	REEL





Protective Sleeve

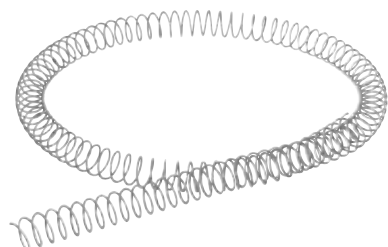
Hydraulic and industrial hose Polyamide protection sleeve

- Colour: Black
- Construction: 100% Polyamide
- Tensile strength: up to 29 - 30%
- Thickness: 1.40mm (+/-1%)
- Temperature: -40°C to +120°C
- Abrasion resistance: 25,000 cycles

ID	FLAT	TO SUIT HOSE SIZE	ROLL LENGTH	PART NUMBER
18mm	30mm	3/16"	100 metres	NPS3017
20mm	35mm	1/4"	100 metres	NPS3520
22mm	40mm	1/4" - 3/8"	100 metres	NPS4023
28mm	50mm	3/8"	100 metres	NPS4527
32mm	55mm	1/2"	100 metres	NPS5030
35mm	60mm	5/8"	100 metres	NPS6036
38mm	65mm	3/4"	100 metres	NPS6539
45mm	80mm	3/4" - 1"	100 metres	NPS7546
50mm	90mm	1"	100 metres	NPS9055
68mm	120mm	1 1/4"	100 metres	NPS10062
70mm	120mm	1 1/2"	100 metres	NPS12578
90mm	150mm	2"	100 metres	NPS15094

Protective Coil Spring

- Helps reduce and avoid damage to the outside of the hose.
- Made from Spring Steel (Galvanised)



ID	WIRE GAUGE	LENGTH	PART NUMBER
16mm	1.6mm	Sold per metre	BV-15
18mm	1.6mm	Sold per metre	BV-18
20mm	1.6mm	Sold per metre	BV-20
23mm	2.0mm	Sold per metre	BV-22
27mm	2.0mm	Sold per metre	BV-25
31mm	2.0mm	Sold per metre	BV-29
33mm	3.2mm	Sold per metre	BV-33
42mm	3.2mm	Sold per metre	BV-41
52mm	3.2mm	Sold per metre	BV-53
59mm	3.0mm	Sold per metre	BV-59
73mm	3.0mm	Sold per metre	BV-73

Protective Coil Spring - Precut

- Helps reduce and avoid damage to the outside of the hose.
- Made from Spring Steel



ID	WIRE GAUGE	LENGTH	PART NUMBER
20mm	2.0mm	200mm	HG250

Economy Spiral Hose Guard

- High density polyethylene resistant to abrasion and UV rays
- Available in black or yellow
- Temperature range: -20°C to +95°C



ID mm	OD mm	WALL mm	USAGE RANGE	COIL LENGTH	BLACK PART NO.	YELLOW PART NO.
9.6	12	1.2	9 - 13	50m	SGX-12-MB	-
13.4	16	1.3	13 - 18	50m	SGX-18-MB	-
16.0	20	2.0	16 - 22	50m	SGX-22-MB	SGX-22-MBY
18.0	-	-	18 - 24	50m	-	SGX-25-MBY
20.6	25	2.2	20 - 27	50m	SGX-26-MB	SGX-26-MBY
27.0	32	2.5	27 - 36	50m	SGX-34-MB	-
43.0	50	3.5	43 - 55	20m	SGX-55-MB	SGX-55-MBY
55.6	63	3.7	55 - 67	20m	SGX-64-MB	-
66.2	75	4.4	66 - 80	20m	SGX-72-MB	SGX-72-MBY
80.2	90	4.9	80 - 98	20m	SGX-90-MB	-

SAFEPLAST

Safe-Spiral Hose Guard

- Made from High Density Polyethylene
- Temperature range: -50° to +100°C
- Resistant to acids, oils and solvents
- Contains antistatic additive and is UV-protected.



ID mm	OD mm	WALL mm	USAGE RANGE	COIL LENGTH	BLACK PART NO.	YELLOW PART NO.
13.4	16	1.3	13 - 18	25m	SGX-16-M	-
16.0	20	2.0	16 - 22	25m	SGX-20-M	-
20.6	25	2.2	20 - 27	25m	SGX-25-M	SGX-25-MY
27.0	32	2.5	27 - 36	25m	SGX-32-M	SGX-32-MY
34.6	40	2.7	34 - 44	25m	SGX-40-M	-
43.2	50	3.4	43 - 55	25m	SGX-50-M	SGX-50-MY
55.6	63	3.7	55 - 67	25m	SGX-63-M	-
66.2	75	4.4	66 - 80	20 / 25m	SGX-75-M	SGX-75-MY
80.2	90	4.9	80 - 98	20m	SGX-90-M	-

Hose Clamps

Our hose clamps are manufactured to DIN 3015 with a practical and economical design. Using weldable plates its easy to anchor the clamps to machinery and steelworks. The collars are manufactured in Polypropylene with ribbed clamp half for standard and double series or Aluminium for heavy duty series.

Note: When a bend is supported by clamps, the clamps should be positioned as close as possible to each side of the bend.

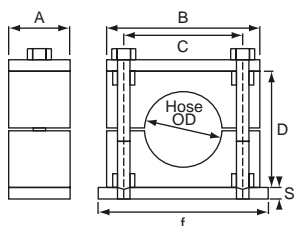
Recommended distance for installation of clamps of the same group code

Hose OD mm	Distance of clamps Metres
6 - 12.7	0.9
15 - 22	1.2
23 - 28	1.5
30 - 38.1	2.0
40 - 48.3	2.5
50 - 57	3.0

Hose OD mm	Distance of clamps Metres
60 - 70	3.4
76.1 - 88.9	3.7
101.6 - 108	4.0
114.3 - 133	4.3
139.7 - 165.1	5.0
169.3 - 324	5.5

Single Hose Clamp (Polypropylene)

•Complete hose clamp supplied assembled



Available in Aluminium on request

GROUP	A	B	C	D	F	S	Bolt	HOSE OD	PART NUMBER
1	30	34	20	27	42	3	M6X30	6	RS106
								8	RS108
								10	RS110
								12	RS112
2	30	40	26	33	48	3	M6X35	12.7	RS2127
								14	RS214
								15	RS215
								16	RS216
								18	RS218
								20	RS320
3	30	48	33	35	55	3	M6X40	22	RS322
								25	RS325
								28	RS428
4	30	57	40	42	62	3	M6X45	30	RS430
								35	RS535
								38	RS538
6	30	86	66	66	88	3	M6X70	48.3	RS6112
								50.8	RS6508

Single Hose Clamp Components (Polypropylene)

GROUP	BOTTOM PLATE	TOP PLATE	BOLT (2 REQUIRED)	HOSE OD	CLAMP HALF
2	APIN2	APS2	M635DIN931	16	A216S
3	APIN3	APS3	M640DIN931	22	A322S
4	APIN4	-	M645DIN931	-	-
5	-	-	M660DIN931	35	A535S

Hose Clamps

Our hose clamps are manufactured to DIN 3015 with a practical and economical design. Using weldable plates its easy to anchor the clamps to machinery and steelworks. The collars are manufactured in Polypropylene with ribbed clamp half for standard and double series or Aluminium for heavy duty series.

Note: When a bend is supported by clamps, the clamps should be positioned as close as possible to each side of the bend.

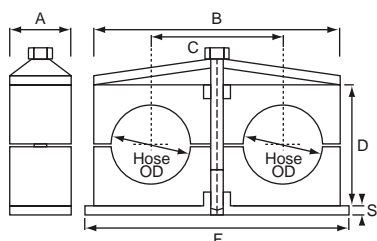
Recommended distance for installation of clamps of the same group code

Hose OD mm	Distance of clamps Metres
6 - 12.7	0.9
15 - 22	1.2
23 - 28	1.5
30 - 38.1	2.0
40 - 48.3	2.5
50 - 57	3.0

Hose OD mm	Distance of clamps Metres
60 - 70	3.4
76.1 - 88.9	3.7
101.6 - 108	4.0
114.3 - 133	4.3
139.7 - 165.1	5.0
169.3 - 324	5.5

Double Hose Clamp (Polypropylene)

• Complete hose clamp supplied assembled



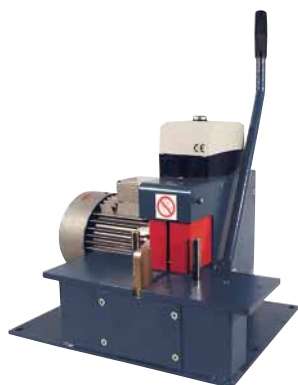
Available in Aluminium on request

GROUP	A	B	C	D	F	S	Bolt	HOSE OD	PART NUMBER
1	30	37	20	25	37	3	M6X35	6 - 6	RS10606
								8 - 8	RS10808
								10 - 10	RS11010
								12 - 12	RS11212
2	30	53	29	26	55	5	M8X35	12.7 - 12.7	RS2127127
								14 - 14	RS21414
								15 - 15	RS21515
								16 - 16	RS21616
								18 - 18	RS21818
3	30	67	36	37	70	5	M8X45	20 - 20	RS32020
								22 - 22	RS32222
								25 - 25	RS32525
4	30	82	45	42	85	5	M8X50	28 - 28	RS42828
								30 - 30	RS43030
5	30	106	56	54	110	5	M8X60	32 - 32	RS53232
								35 - 35	RS53535
								38 - 38	RS53838
								40 - 40	RS54040
								42 - 42	RS54242

Double Hose Clamp Components (Polypropylene)



GROUP	BOTTOM PLATE	TOP PLATE	BOLT	HOSE OD	CLAMP HALF
2	ADPIN2	ADPS2	M835DIN931	16 - 16	AD21616S
				18 - 18	AD21818S
3	ADPIN3	ADPS3	M845DIN931	20 - 20	AD32020S
				22 - 22	AD32222S



EM400 Hose Cutting Machine

Cutting Range: 1-2 wire 1 1/4", 4 wire 1"
 Dimensions (LxWxH): 500 x 350 x 600mm
 Drive: Electric Motor

DESCRIPTION	POWER	PART NUMBER
Hose cutting machine	220V 1.5kW	EM4001PH
Hose cutting machine	380V 1.5kW	EM400
Replacement blade to suit EM400 hose cutting machine		EM250



EM3 Ecoline Hose Cutting Machine

Strong and robust, meeting CE safety standards for operator protection.

Cutting Range: 1-2 wire 1 1/4", 4 wire 1"
 Drive: Electric Motor
 Cutting Blade: 200 x 1.6 x 30mm or 200 x 1.6 x 25.4mm
 Dimensions (LxWxH): 400 x 510 x 540mm
 Weight: 20 Kg



DESCRIPTION	POWER	PART NUMBER
Hose cutting machine	220V 1.8kW	EM31PHECOLINE
Replacement blade - 30mm centre (pre 2011)		TMG2001630
Replacement blade - 25.4mm centre (from 2011)		TMG20016254



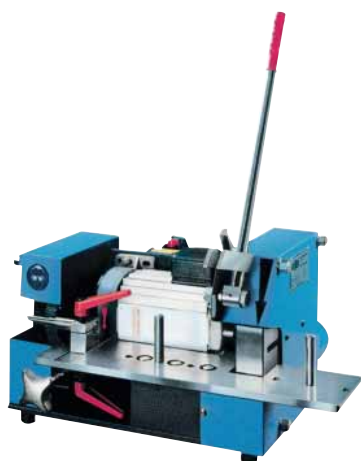
EM3 Hose Cutting Machine

Strong and robust, meeting CE safety standards for operator protection.

Cutting Range: 4 wire 1 1/4"
 Drive: Electric Motor
 Cutting Blade: 275 x 3.0 x 30mm
 Dimensions (LxWxH): 540 x 440 x 300mm
 Weight: 50 Kg



DESCRIPTION	POWER	PART NUMBER
Hose cutting machine	380V 3.0kW	EM3
Replacement blade to suit EM3 hose cutting machine		TMG275330



EM2 Hose Cutting and Brushing Machine

Strong and robust, meeting CE safety standards for operator protection. Suitable for bench mounting.

Cutting Range: 1 & 2 wire up to 1 1/4", 4 wire up to 1 1/4"
 Drive: 3 kW
 Cutting Blade: 275 x 3 x 30mm
 Brushing: Yes
 Dimensions (LxWxH): 630 x 440 x 330mm
 Weight: 65 Kg



DESCRIPTION	POWER	PART NUMBER
Hose cutting machine	3 Phase	EM2
Replacement blade to suit EM2 hose cutting machine		TMG275330



S2MH Manual Swaging Machine

- Ideal for mobile or workshop crimping
- Supplied with 8 Dies sets

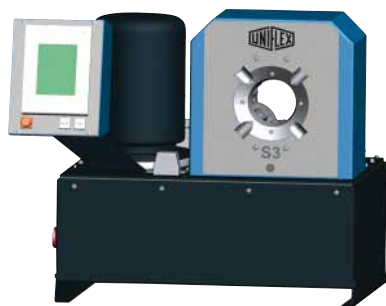


Crimp Force: 900 kN / 90 Ton
 Advantage: Slide bearings on the crimp tool, no service and 20% less friction
 Working Range: 2 wire up to 1 1/4"
 2 wire up to 1"
 Dies Supplied: 14, 17, 20, 24, 28, 32, 36 and 40mm
 Opening: +22mm
 Opening without Dies: 77mm
 Oil: 0.75 (litres)
 Dimensions (LxWxH): 170 x 220 x 330mm
 Weight: 31 Kg

DESCRIPTION	POWER	PART NUMBER
Manual swaging machine	Manual	S2MH

**Die Locator Pin Set to suit HM200 & HM200 Ecoline**

DESCRIPTION	PINS PER SET	PART NUMBER
Replacement die locator pin set to suit HM200	8	239041SW



S4



S4 Ecoline

S4 & S4 Ecoline Swaging Machines

	S4	S4 ECOLINE
Crimp Force:	1800 kN / 180 Ton	1800 kN / 180 Ton
No Grease 20% less friction:	Yes	Yes
Working Range:	1 & 2 Wire up to 2" 4 Wire up to 1 1/2"	1 & 2 Wire up to 2" 4 Wire up to 1 1/2"
Opening:	+35mm	+35mm
Opening without dies:	103mm	103mm
Speed (mm/sec) Close / Crimp / Open:	5.9 / 5.9 / 10.3	2.7 / 2.7 / 4.7
Oil:	35 l	35 l
Dimensions (LxWxH):	720 x 600 x 672mm	592 x 545 x 672mm
Dies Supplied:	17, 20, 24, 28, 32, 36, 47, 54 and 62mm	17, 20, 24, 28, 32, 36, 47, 54 and 62mm
Weight:	203 Kg	160 Kg

DESCRIPTION	POWER	PART NUMBER
S4 swaging machine	3 Phase	S4
S4 Ecoline swaging machine	1 Phase	S4ECOLINE1PH
S4 Ecoline swaging machine	3 Phase	S4ECOLINE
S4 Ecoline swaging machine	12 Volt	S4ECOLINE12V
S4 Ecoline swaging machine	24 Volt	S4ECOLINE24V



Supplied with Quick Die Change System

The Quick Die Change System and Die Holder which allows you to easily swap a full set of Dies in seconds.



S8 Swaging Machine

Crimp Force:	2200 kN / 220 Ton
No Grease 20% less friction:	Yes
Working Range:	1 & 2 Wire up to 2", 4 Wire up to 1 1/2"
Industrial:	4"
Opening:	+45mm
Opening without dies:	190mm
Speed (mm/sec) Close / Crimp / Open:	6.1 / 1.7 / 10.3
Oil:	55 l
Dimensions (LxWxH):	690 x 600 x 1400mm
Dies Supplied:	17, 20, 24, 28, 32, 36, 44 and 50mm
Weight	390 Kg

DESCRIPTION	POWER	PART NUMBER
Swaging Machine	3 Phase	S8



Supplied with Quick Die Change System

The Quick Die Change System and Die Holder which allows you to easily swap a full set of Dies in seconds.



The company UNIFLEX-Hydraulik GmbH was established by the engineer Peter Schröck in Frankfurt/Main in 1972. Based on its trailblazing innovations and high-quality products, it quickly grew into a leading supplier of machines used for producing hose assemblies.

Based on its years of cooperation with many manufacturers of hose assemblies, UNIFLEX has developed a comprehensive program of machines designed for producing hose assemblies. It provides cutting machines, presses, testing systems and cleaning machines. In this way, UNIFLEX has become an innovative system supplier – from workshop equipment to production plants.



USM10 Hose Skiving Machine

External Skiving: 3/16" to 2"
 Internal Skiving: 5/8" to 2"
 Noise Level: 60 dBA
 Drive: 0.37 kW
 Length / Width / Height: 260 x 440 x 500
 Bench Mountable: Yes
 Weight: 35 Kg

Supplied with External Skiving Mandrels. Internal Skiving Mandrels available upon request.

DESCRIPTION	POWER	PART NUMBER
Hose skiving machine	1 Phase	USM10ECOLINE
Hose skiving machine	3 Phase	USM10



USM2 Hose Skiving Machine (Manual)

Ideal for mobile hose repair - no power required

External Skiving: 3/16" to 2"
 Internal Skiving: 5/8" to 2"
 Drive: Manual
 Length / Width / Height: 338 x 465 x 445mm
 Max Outside Diameter: Ø 80mm
 Bench Mountable: Yes
 Weight: 16 Kg

Supplied with External Skiving Mandrels. Internal Skiving Mandrels available upon request.

DESCRIPTION	POWER	PART NUMBER
Hose skiving machine	Manual	USM2



Pipe Bending Tool

Design: For bending pipes. The rollers have an optimum radius. Maximum 180°
 Material: Bending rollers: Aluminium alloy
 Technical Information: Place the pipe bending machine in a bench vice for optimal stability

DESCRIPTION	PIPE Ø	PART NUMBER
Pipe bending tool with rollers 6 - 12mm	6 - 12mm	033012
Pipe bending tool with rollers 10 - 18mm	10 - 18mm	033020

Hose Assembly Workshop



McHugh Components work closely with many OE Manufacturers and produce hose kits to their specific requirements. All hose assemblies must pass stringent quality control including testing before being despatched.



- Our new Automatic Hose Measuring and Cutting Machine can handle large batches of hose with total precision.
- We can scribe information on to the ferrule of each hose for example your part number or bar rating.



- Using the latest UNIFLEX Swaging Machines which use PFM (Pressure Force Monitoring) to alert the operator of any abnormalities during the swaging process. Thus preventing defective assemblies being delivered to the customer.



- As part of our quality control procedure hoses are flushed and tested up to a possible 1300bar. Information from the test is stored and can be used for certification.
- When assemblies have been passed they are capped to avoid contamination and labelled before being despatched.

Standard 2 Wire Hydraulic Hose Assemblies



HyPress Standard Length Hose Assemblies c/w BSP Female and BSP Female

LENGTH	1/4"	3/8"	1/2"	5/8"	3/4"	1"
250mm	HH040250FF	HH060250FF	HH080250FF	HH100250FF	HH120250FF	HH160250FF
500mm	HH040500FF	HH060500FF	HH080500FF	HH100500FF	HH120500FF	HH160500FF
750mm	HH040750FF	HH060750FF	HH080750FF	HH100750FF	HH120750FF	HH160750FF
1000mm	HH041000FF	HH061000FF	HH081000FF	HH101000FF	HH121000FF	HH161000FF
1250mm	HH041250FF	HH061250FF	HH081250FF	HH101250FF	HH121250FF	HH161250FF
1500mm	HH041500FF	HH061500FF	HH081500FF	HH101500FF	HH121500FF	HH161500FF
1750mm	HH041750FF	HH061750FF	HH081750FF	HH101750FF	HH121750FF	HH161750FF
2000mm	HH042000FF	HH062000FF	HH082000FF	HH102000FF	HH122000FF	HH162000FF
2250mm	HH042250FF	HH062250FF	HH082250FF	HH102250FF	HH122250FF	HH162250FF
2500mm	HH042500FF	HH062500FF	HH082500FF	HH102500FF	HH122500FF	HH162500FF



HyPress Standard Length Hose Assemblies c/w BSP Female and BSP 90° Female

LENGTH	1/4"	3/8"	1/2"	5/8"	3/4"	1"
250mm	HH040250F9	HH060250F9	HH080250F9	HH100250F9	HH120250F9	HH160250F9
500mm	HH040500F9	HH060500F9	HH080500F9	HH100500F9	HH120500F9	HH160500F9
750mm	HH040750F9	HH060750F9	HH080750F9	HH100750F9	HH120750F9	HH160750F9
1000mm	HH041000F9	HH061000F9	HH081000F9	HH101000F9	HH121000F9	HH161000F9
1250mm	HH041250F9	HH061250F9	HH081250F9	HH101250F9	HH121250F9	HH161250F9
1500mm	HH041500F9	HH061500F9	HH081500F9	HH101500F9	HH121500F9	HH161500F9
1750mm	HH041750F9	HH061750F9	HH081750F9	HH101750F9	HH121750F9	HH161750F9
2000mm	HH042000F9	HH062000F9	HH082000F9	HH102000F9	HH122000F9	HH162000F9
2250mm	HH042250F9	HH062250F9	HH082250F9	HH102250F9	HH122250F9	HH162250F9
2500mm	HH042500F9	HH062500F9	HH082500F9	HH102500F9	HH122500F9	HH162500F9



HyPress Standard Length Hose Assemblies c/w BSP 90° Female and BSP 90° Female

LENGTH	1/4"	3/8"	1/2"	5/8"	3/4"	1"
250mm	HH04025099	HH06025099	HH08025099	HH10025099	HH12025099	HH16025099
500mm	HH04050099	HH06050099	HH08050099	HH10050099	HH12050099	HH16050099
750mm	HH04075099	HH06075099	HH08075099	HH10075099	HH12075099	HH16075099
1000mm	HH04100099	HH06100099	HH08100099	HH10100099	HH12100099	HH16100099
1250mm	HH04125099	HH06125099	HH08125099	HH10125099	HH12125099	HH16125099
1500mm	HH04150099	HH06150099	HH08150099	HH10150099	HH12150099	HH16150099
1750mm	HH04175099	HH06175099	HH08175099	HH10175099	HH12175099	HH16175099
2000mm	HH04200099	HH06200099	HH08200099	HH10200099	HH12200099	HH16200099
2250mm	HH04225099	HH06225099	HH08225099	HH10225099	HH12225099	HH16225099
2500mm	HH04250099	HH06250099	HH08250099	HH10250099	HH12250099	HH16250099

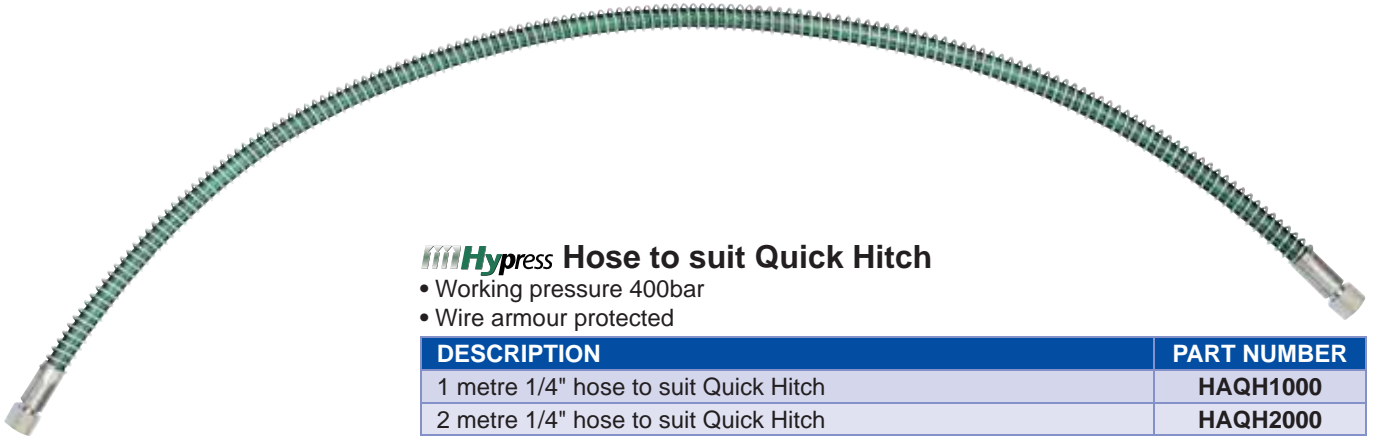
Note: Orientation will be 0° unless otherwise stated when ordering



Hypress Boom Hose to suit Hitachi

- Working pressure: 350bar

DESCRIPTION	PART NUMBER
Boom hose to suit Hitachi	HAHIT001



Hypress Hose to suit Quick Hitch

- Working pressure 400bar
- Wire armour protected

DESCRIPTION	PART NUMBER
1 metre 1/4" hose to suit Quick Hitch	HAQH1000
2 metre 1/4" hose to suit Quick Hitch	HAQH2000



Hypress 1/4" Domestic Wash Hose Assemblies

Super compact, lightweight hose

Hose Type: EN857 1SC 1/4" (part number 1SC04)

Max Working Pressure: 225 bar

Max Temperature: 100°C

Ideal for Domestic Washers

HOSE LENGTH	3/8" Male 3/8" Male	3/8" Male 3/8" Female	3/8" Female 3/8" Female	22mm Karcher 3/8" Male	22mm Karcher 3/8" Female	22mm Karcher 22mm Karcher
8 metre	DWH08MM	DWH08MF	DWH08FF	DWH08KM	DWH08KF	DWH08KK
10 metre	DWH10MM	DWH10MF	DWH10FF	DWH10KM	DWH10KF	DWH10KK
12 metre	DWH12MM	DWH12MF	DWH12FF	DWH12KM	DWH12KF	DWH12KK
15 metre	DWH15MM	DWH15MF	DWH15FF	DWH15KM	DWH15KF	DWH15KK



Hypress 3/8" Pressure Washer Hose Assemblies

Super compact, lightweight hose

Hose Type: EN857 2SC 3/8" (part number 2SC06)

Max Working Pressure: 330 bar

Max Temperature: 100°C

Also available in 1/4" or 5/16" hose - Please state when ordering.

HOSE LENGTH	3/8" Male 3/8" Male	3/8" Male 3/8" Female	3/8" Female 3/8" Female	22mm Karcher 3/8" Male	22mm Karcher 3/8" Female	22mm Karcher 22mm Karcher
10 metre	PWH10MM	PWH10MF	PWH10FF	PWH10KM	PWH10KF	PWH10KK
12.5 metre	PWH125MM	PWH125MF	PWH125FF	PWH125KM	PWH125KF	PWH125KK
15 metre	PWH15MM	PWH15MF	PWH15FF	PWH15KM	PWH15KF	PWH15KK
20 metre	PWH20MM	PWH20MF	PWH20FF	PWH20KM	PWH20KF	PWH20KK
25 metre	PWH25MM	PWH25MF	PWH25FF	PWH25KM	PWH25KF	PWH25KK
30 metre	PWH30MM	PWH30MF	PWH30FF	PWH30KM	PWH30KF	PWH30KK
35 metre	PWH35MM	PWH35MF	PWH35FF	PWH35KM	PWH35KF	PWH35KK
40 metre	PWH40MM	PWH40MF	PWH40FF	PWH40KM	PWH40KF	PWH40KK

For 'Long Life' hose add LL to the end of part number, e.g. PWH20KMLL

For Stainless Steel fittings add SS to the end of part number, e.g. PWH20KMSS

For 'Long Life' hose and Stainless Steel fittings add LL to the end of part number, e.g. PWH20KMSSLL



Hypress 3/8" Hot Wash Hose Assemblies (Blue Hose)

Super compact, lightweight, non-marking hose

Hose Type: EN857 2SC 3/8" (part number 2SC06SJBBLUE)

Max Working Pressure: 400 bar

Max Temperature: 155°C

HOSE LENGTH	3/8" Male 3/8" Male	3/8" Male 3/8" Female	3/8" Female 3/8" Female	22mm Karcher 3/8" Male	22mm Karcher 3/8" Female	22mm Karcher 22mm Karcher
10 metre	HW10MM	HW10MF	HW10FF	HW10KM	HW10KF	HW10KK
12.5 metre	HW125MM	HW125MF	HW125FF	HW125KM	HW125KF	HW125KK
15 metre	HW15MM	HW15MF	HW15FF	HW15KM	HW15KF	HW15KK
20 metre	HW20MM	HW20MF	HW20FF	HW20KM	HW20KF	HW20KK
25 metre	HW25MM	HW25MF	HW25FF	HW25KM	HW25KF	HW25KK
30 metre	HW30MM	HW30MF	HW30FF	HW30KM	HW30KF	HW30KK
35 metre	HW35MM	HW35MF	HW35FF	HW35KM	HW35KF	HW35KK
40 metre	HW40MM	HW40MF	HW40FF	HW40KM	HW40KF	HW40KK

For 'Long Life' hose add LL to the end of part number, e.g. HW20KMSSLL

For Stainless Steel fittings add SS to the end of part number, e.g. HW20KMSS

For 'Long Life' hose and Stainless Steel fittings add LL to the end of part number, e.g. HW20KMSSLL



1/4" Lightweight Hose & Spray Gun Kit (Less Lance)

Supplied with 8 metres of 1/4" super compact, lightweight hose.

Ideal for Domestic Washers.

Max Pressure: 280 bar / 4000 psi

Max Flow: 25 lpm

Max Temperature: 120°C

DESCRIPTION	INLET	OUTLET	PART NUMBER
1/4" 8mtr hose and gun kit	22mm Female	22mm Female	100004PWKIT



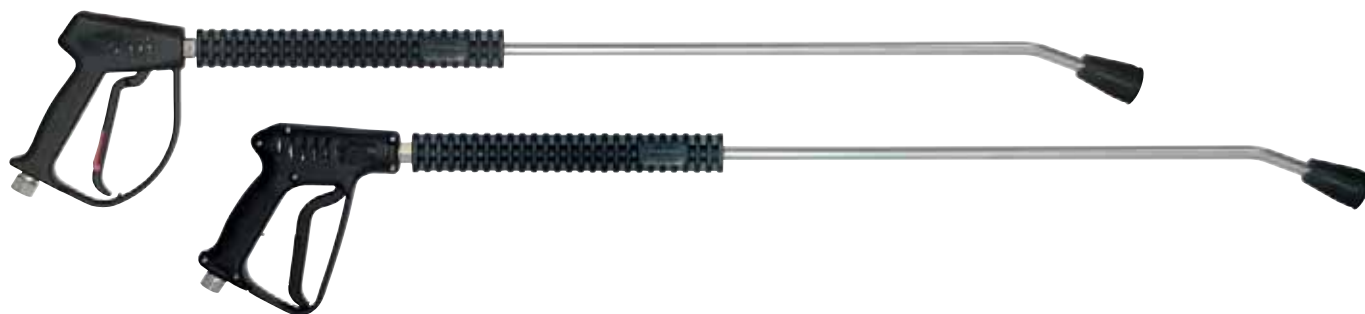
Lances to suit 100004PW Gun

Max Pressure: 280 bar / 4000 psi

Max Flow: 25 lpm

Max Temperature: 120°C

LENGTH	INLET	OUTLET	PART NUMBER
700mm	22mm Male	1/4" NPT Female	140015PW
900mm	22mm Male	1/4" NPT Female	140017PW
1200mm	22mm Male	1/4" NPT Female	140019PW



Pressure Washer Gun c/w MT3 Moulded Lance (Less Nozzle)

Max Pressure: 280 bar / 4000 psi

Max Flow: 25 lpm

Max Temperature: 120°C

DESCRIPTION	INLET	OUTLET	PART NUMBER
Pressure washer gun c/w 900mm MT3 moulded lance	3/8" BSP Female	1/4" NPT Female	M4070900PW
Pressure washer gun c/w 1200mm MT3 moulded lance	3/8" BSP Female	1/4" NPT Female	M4071200PW
Pressure washer gun c/w 1500mm MT3 moulded lance	3/8" BSP Female	1/4" NPT Female	M4071500PW

Heavy Duty High Pressure Washer Gun c/w MT3 Moulded Lance (Less Nozzle)

Max Pressure: 280 bar / 4000 psi

Max Flow: 40 lpm

Max Temperature: 150°C

DESCRIPTION	INLET	OUTLET	PART NUMBER
H.D. Pressure washer gun c/w 900mm MT3 moulded lance	3/8" BSP Female	1/4" NPT Female	ASTRA0900PW
H.D. Pressure washer gun c/w 1200mm MT3 moulded lance	3/8" BSP Female	1/4" NPT Female	ASTRA1200PW

Note: A complete range of pressure washer parts is available, contact our Sales Staff for further details



High Pressure Stainless Steel Nozzle

Stainless steel.
Angle: 15°

DESCRIPTION	THREAD	PART NUMBER
0.40mm high pressure stainless steel nozzle	1/4" NPT Male	170225PW
0.45mm high pressure stainless steel nozzle	1/4" NPT Male	170229PW
0.50mm high pressure stainless steel nozzle	1/4" NPT Male	170233PW

Note: A larger range of nozzles is available from stock.

Turbo Nozzles

- Max Temperature: 100°C
- Thread: 1/4" BSP Female

	TYPE	SIZE	PRESSURE	REPAIR KIT	PART NUMBER
Standard		0.35mm	3700psi / 255 bar	410376PW	160215PW
		0.45mm	3700psi / 255 bar	410378PW	160217PW
		0.50mm	3700psi / 255 bar	410379PW	160218PW
		0.55mm	3700psi / 255 bar	410380PW	160219PW
		0.60mm	3700psi / 255 bar	410381PW	160220PW
Heavy Duty		0.40mm	3700psi / 255 bar	410055PW	160072PW
		0.45mm	3700psi / 255 bar	410056PW	160073PW
		0.50mm	3700psi / 255 bar	410057PW	160074PW
Heavy Duty		0.45mm	4500psi / 310 bar	410485PW	160276PW



Adjustable Unloader with 2 Valves (with Handle)

Max Temperature: 90°C
Flow: 30 lpm

INLET / OULET	BY-PASS	MAX PRESSURE	COLOUR	PART NUMBER
3/8" BSP Female	3/8" BSP Female	200 bar / 3000 psi	RED	180114PW
3/8" BSP Female	3/8" BSP Female	275 bar / 4000 psi	BLUE	180115PW

Adjustable Unloader with 2 Valves (without Handle)

Max Temperature: 90°C
Flow: 30 lpm

INLET / OULET	BY-PASS	MAX PRESSURE	COLOUR	PART NUMBER
3/8" BSP Female	3/8" BSP Female	200 bar / 3000 psi	RED	180282PW
3/8" BSP Female	3/8" BSP Female	275 bar / 4000 psi	BLUE	180666PW



High Pressure Quick Release Couplings (Free Flow)

Zinc plated.
Max Pressure: 250 bar / 3600 psi

DESCRIPTION	THREAD	PART NUMBER
Female quick release coupling	3/8" BSP Female	C23543PW
Replacement seal kit to suit C23543PW	-	C23543PWSK
Male quick release coupling	3/8" BSP Female	C23544PW

Note: A complete range of pressure washer parts is available, contact our Sales Staff for further details

Pressure Washer



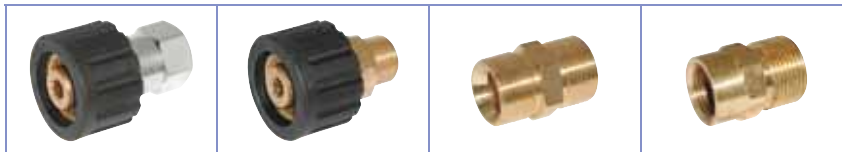
HOSE I.D.	THREAD	Female PW Insert	Male PW Insert
Inch			
1/4"	M22x1.5	FK50-04-22	FN50-04-22
5/16"	M22x1.5	FK50-05-22	FN50-05-22
3/8"	M22x1.5	FK50-06-22	FN50-06-22

Hose Joiner



HOSE I.D.	HOSE I.D.	Hose Joiner
Inch	Inch	
1/4"	1/4"	D050-04
5/16"	5/16"	D050-05
3/8"	3/8"	D050-06
1/2"	1/2"	D050-08

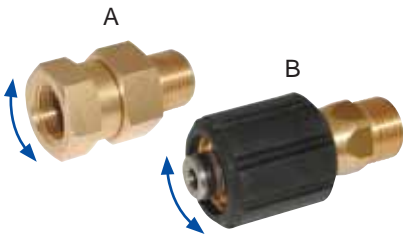
Adaptors to suit Kärcher



THREAD	THREAD	22mm FEMALE BSP FEMALE	22mm FEMALE BSP MALE	22mm MALE MALE	22mm MALE FIXED FEMALE
22mm	1/4" BSP	240030PW	240029PW	240022PW	-
22mm	3/8" BSP	240028PW	240027PW	240020PW	240021PW
22mm	1/2" BSP	482212	240026PW	240019PW	KA2212BI
22mm	22mm	-	-	240024PW	-

Swivel Couplings for Hose to Gun Connection

Max Pressure: 250 bar / 3600 psi
Max Flow: 30 lpm



TYPE	DESCRIPTION	PART NUMBER
A	Swivel coupling 3/8" BSP Female with 3/8" BSP Male	220069PW
B	Swivel coupling M22x1.5 Female with 1/4" BSP Male	220070PW
B	Swivel coupling M22x1.5 Female with M22x1.5 Male	220071PW
B	Swivel coupling M22x1.5 Female with 3/8" BSP Male	220164PW

Swivel Coupling - SL Series for Hose to Gun Connection

Max Pressure: 280 bar / 4100 psi
Max Flow: 40 lpm
Max Temperature: 150°C



DESCRIPTION	INLET	OUTLET	PART NUMBER
Swivel coupling	3/8" Female	3/8" Male	220075PW

Note: A complete range of pressure washer parts is available, contact our Sales Staff for further details



Universal High Foaming Detergent



- High Performance Grime and Dirt Buster for car, bus and truck.
- Effortless cleaning with a streak free shine for all types of bodywork.
- Also suitable for degreasing and paint shop environments.
- Silicone free, hard water friendly and bio degradable it is suitable for use with hot or cold pressure washers.

DESCRIPTION	SIZE	PART NUMBER
Universal High foam detergent	5 Litre	TFR005
Universal High foam detergent	25 Litre	TFR025



Agri & Plant Heavy Duty Detergent



- Heavy Duty Detergent with Superior Cleaning Power.
- Specifically formulated for the removal of heavy muck and high levels of oil, grease and grime
- Ideal for cleaning Plant and Agri Machinery.
- Also suitable for degreasing and paint shop environments.
- Silicone free, hard water friendly and bio degradable it is suitable for use with hot or cold pressure washers.

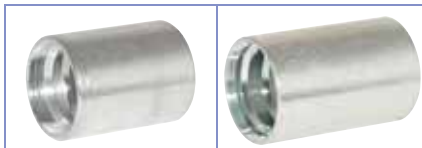
DESCRIPTION	SIZE	PART NUMBER
Agri & Plant Heavy Duty detergent	5 Litre	AAP005
Agri & Plant Heavy Duty detergent	25 Litre	AAP025

Note: A complete range of pressure washer parts is available, contact our Sales Staff for further details

Standard Ferrules NON SKIVE



1 Wire
NON SKIVE



HOSE ID	DASH SIZE	TO SUIT 1SN (1 wire hose)	TO SUIT 1SC (1 wire hose)
Inch			
3/16"	03	0011-03	-
1/4"	04	0011-04	001K-04
5/16"	05	0011-05	001K-05
3/8"	06	0011-06	001K-06
1/2"	08	0022-08	001K-08
5/8"	10	0022-10	001K-10
3/4"	12	0022-12	001K-12
1"	16	0011-16	001K-16
1 1/4"	20	0011-20	-
1 1/2"	24	0011-24	-
2"	32	0011-32	-



2 Wire
NON SKIVE



HOSE ID	DASH SIZE	TO SUIT 2SC / 2SN (2 wire hose)	TO SUIT R7 (2 wire hose)
Inch			
3/16"	03	0022-03	0007-03
1/4"	04	0022-04	0007-04
5/16"	05	0022-05	0007-05
3/8"	06	0022-06	0007-06
1/2"	08	0022-08	0007-08
5/8"	10	0022-10	0007-10
3/4"	12	0022-12	0007-12
1"	16	0022-16	0007-16
1 1/4"	20	0022-20	-
1 1/2"	24	0022-24	-
2"	32	0022-32	-

Standard Ferrules SKIVE



1 & 2 Wire
SKIVE



HOSE ID	DASH SIZE	TO SUIT 1SN / 1SC / 2SC (1 & 2 wire hose)	TO SUIT 2SN (2 wire hose)
Inch			
3/16"	03	0001-03	0002-03
1/4"	04	0001-04	0002-04
5/16"	05	0001-05	0002-05
3/8"	06	0001-06	0002-06
1/2"	08	0001-08	0002-08
5/8"	10	0001-10	0002-10
3/4"	12	0001-12	0002-12
1"	16	0001-16	0002-16
1 1/4"	20	0001-20	0002-20
1 1/2"	24	0001-24	0002-24
2"	32	0001-32	0002-32



4 Wire
(Short Tail)
SKIVE



HOSE ID	DASH SIZE	TO SUIT 4SP - Short (4 wire hose)
Inch		
1/4"	04	0009-04
3/8"	06	0009-06
1/2"	08	0009-08
5/8"	10	0009-10
3/4"	12	0009-12
1"	16	0009-16
1 1/4"	20	0009-20
1 1/2"	24	0009-24
2"	32	0009-32

Note: 0009 Ferrules can be used with standard tail hose inserts on multispiral hose

MULTISPIRAL Long Ferrules listed on page 39.

Measuring Standard Couplings

This table will help you identify unmarked couplings and thread sizes.


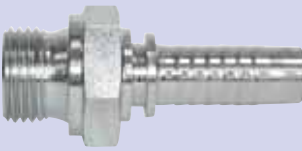
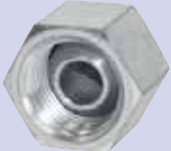

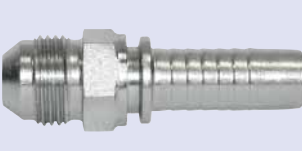


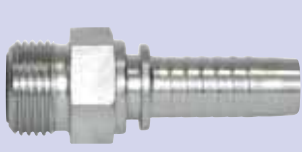


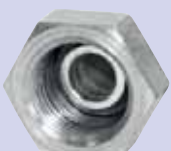

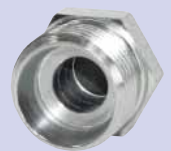

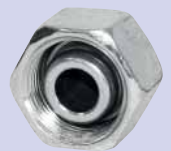

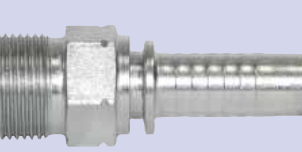
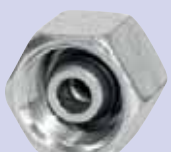
TYPE	THREAD	DASH SIZE	MALE		FEMALE	
			MAX	MIN	MAX	MIN
BSP	1/8"	02	9.7	9.5	8.8	8.6
METRIC	M10x1	10	9.9	9.8	9.1	8.9
JIC	7/16"	04	11.0	10.9	10.0	9.7
METRIC	M12x1.5	12	11.9	11.7	10.6	10.4
JIC	1/2"	05	12.6	12.5	11.6	11.3
BSP	1/4"	04	13.1	12.9	11.8	11.4
METRIC	M14x1.5	14	13.9	13.7	12.6	12.4
JIC	9/16"	06	14.2	14.0	13.0	12.8
ORFS	9/16"	06	14.2	14.0	13.0	12.8
JIC	5/8"	07	15.8	15.6	14.6	14.4
METRIC	M16x1.5	16	15.9	15.7	14.6	14.4
BSP	3/8"	06	16.6	16.4	15.3	15.0
ORFS	11/16"	09	17.4	17.2	16.1	15.7
METRIC	M18x1.5	18	17.9	17.7	16.6	16.4
JIC	3/4"	08	19.0	18.8	17.6	17.3
METRIC	M20x1.5	20	19.9	19.7	18.6	18.4
ORFS	13/16"	11	20.5	20.4	19.2	18.9
BSP	1/2"	08	20.9	20.7	19.1	18.6
METRIC	M22x1.5	22	21.9	21.7	20.6	20.4
JIC	7/8"	10	22.1	21.9	20.6	20.3
BSP	5/8"	10	22.9	22.6	21.1	20.6
METRIC	M24x1.5	24	23.9	23.7	22.5	22.3
ORFS	1"	13	25.3	25.1	23.8	23.4
METRIC	M26x1.5	26	25.9	25.7	24.6	24.4
BSP	3/4"	12	26.4	26.2	24.6	24.1
JIC	1 1/16"	12	26.9	26.7	25.1	24.7
METRIC	M30x1.5	30	29.9	29.7	28.6	28.4
METRIC	M30x2	30	29.9	29.7	28.2	27.8
ORFS	1 3/16"	14	30.1	29.8	28.3	27.9
JIC	1 3/16"	14	30.1	29.8	28.3	27.9
METRIC	M33x1.5	33	32.9	32.7	31.5	31.3
BSP	1"	16	33.2	32.9	30.9	30.3
JIC	1 5/16"	16	33.2	33.0	31.4	31.0
METRIC	M36x1.5	36	35.9	35.7	34.6	34.4
METRIC	M36x2	36	35.9	35.7	34.2	33.8
ORFS	1 7/16"	15	36.4	36.2	34.6	34.2
METRIC	M38x1.5	38	37.9	37.7	36.6	36.4
JIC	1 5/8"	20	41.2	40.9	39.4	39.0
BSP	1 1/4"	20	41.9	41.6	39.5	39.0
METRIC	M42x2	42	41.9	41.7	40.2	39.8
ORFS	1 11/16"	21	42.8	42.5	41.0	40.6
METRIC	M45x2	45	44.9	44.7	43.2	42.8
METRIC	M45x1.5	45	44.9	44.7	43.6	43.4
JIC	1 7/8"	24	47.5	47.3	48.7	45.3
BSP	1 1/2"	24	47.8	47.4	45.4	44.8
METRIC	M52x2	52	51.9	51.7	50.2	56.7
BSP	2"	32	59.6	59.3	57.2	56.7
JIC	2 1/2"	32	63.4	63.2	61.6	61.2
ORFS	2 1/2"	32	63.4	63.2	61.6	61.2

Example of 3/4" BSP Male



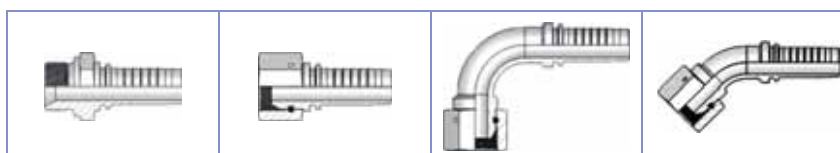
Example of 3/4" BSP Female



THREAD TYPE	MALE THREAD		FEMALE THREAD
BSP			
	60° Depressed Cone		Raised 60° Cone
JIC UN Thread			
	Raised Nose		Depressed Cone
ORFS UN Thread			
	Flat c/w O' Ring inset		Flat Face
JIS-K to suit Komatsu Metric Thread			
			Depressed Cone
JIS-N to suit Nissan BSP Thread			
			Raised Cone
JIS-T to suit Toyota BSP Thread			
			Depressed Cone
Metric Light L Series			
	Large Hole & Thinner Wall		Big Nose / Hole
Metric Heavy S Series			
	Smaller Hole & Thicker Wall		Smaller Nose / Hole



Standard BSP



HOSE ID Inch	THREAD	Male Parallel 60° Cone	Female 60° Cone	90° Swept Elbow 60° Cone	45° Swept Elbow 60° Cone
3/16"	1/8" BSP	0350-03-02	0050-03-02	0150-03-02	0250-03-02
3/16"	1/4" BSP	0350-03-04	0050-03-04	0150-03-04	0250-03-04
1/4"	1/8" BSP	0350-04-02	0050-04-02	0150-04-02	0250-04-02
1/4"	1/4" BSP	0350-04-04	0050-04-04	0150-04-04	0250-04-04
1/4"	3/8" BSP	0350-04-06	0050-04-06	0150-04-06	0250-04-06
5/16"	1/4" BSP	0350-05-04	0050-05-04	0150-05-04	0250-05-04
5/16"	3/8" BSP	0350-05-06	0050-05-06	0150-05-06	0250-05-06
3/8"	1/4" BSP	0350-06-04	0050-06-04	0150-06-04	0250-06-04
3/8"	3/8" BSP	0350-06-06	0050-06-06	0150-06-06	0250-06-06
3/8"	1/2" BSP	0350-06-08	0050-06-08	0150-06-08	0250-06-08
1/2"	3/8" BSP	0350-08-06	0050-08-06	0150-08-06	0250-08-06
1/2"	1/2" BSP	0350-08-08	0050-08-08	0150-08-08	0250-08-08
1/2"	5/8" BSP	0350-08-10	0050-08-10	0150-08-10	0250-08-10
1/2"	3/4" BSP	0350-08-12	0050-08-12	0150-08-12	0250-08-12
5/8"	1/2" BSP	-	0050-10-08	-	-
5/8"	5/8" BSP	0350-10-10	0050-10-10	0150-10-10	0250-10-10
5/8"	3/4" BSP	0350-10-12	0050-10-12	0150-10-12	0250-10-12
3/4"	3/4" BSP	0350-12-12	0050-12-12	0150-12-12	0250-12-12
3/4"	1" BSP	0350-12-16	0050-12-16	0150-12-16	0250-12-16
1"	1" BSP	0350-16-16	0050-16-16	0150-16-16	0250-16-16
1 1/4"	1 1/4" BSP	0350-20-20	0050-20-20	0150-20-20	0250-20-20
1 1/2"	1 1/2" BSP	0350-24-24	0050-24-24	0150-24-24	0250-24-24
2"	2" BSP	0350-32-32	0050-32-32	0150-32-32	0250-32-32



Standard BSP /
Banjo Couplings



HOSE ID Inch	THREAD	90° Compact Elbow 60° Cone	90° Compact Elbow 60° Cone (Forged)	BSP Banjo Insert	BSP Banjo Adaptor	Banjo Bolt	Double Banjo Bolt
1/4"	1/8" BSP	2300-04-02	-	1400-04-02	-	-	-
1/4"	1/4" BSP	2300-04-04	2320-04-04	1400-04-04	1550-04-04	1600-00-04	1600-04-04
1/4"	3/8" BSP	2300-04-06	2320-04-06	1400-04-06	-	-	-
5/16"	1/4" BSP	-	-	1400-05-04	-	-	-
5/16"	3/8" BSP	-	2320-05-06	1400-05-06	-	-	-
3/8"	1/4" BSP	-	-	1400-06-04	1550-06-04	-	-
3/8"	3/8" BSP	-	2320-06-06	1400-06-06	1550-06-06	1600-00-06	1600-06-06
3/8"	1/2" BSP	2300-06-08	2320-06-08	1400-06-08	1550-06-08	-	-
1/2"	3/8" BSP	-	2320-08-06	1400-08-06	1550-08-06	-	-
1/2"	1/2" BSP	-	2320-08-08	1400-08-08	1550-08-08	1600-00-08	1600-08-08
5/8"	5/8" BSP	2300-10-10	-	1400-10-10	-	1600-00-10	-
3/4"	3/4" BSP	2300-12-12	2320-12-12	1400-12-12	1550-12-12	1600-00-12	1600-12-12
1"	1" BSP	2300-16-16	2320-16-16	1400-16-16	1550-16-16	1600-00-16	-
1 1/4"	1 1/4" BSP	2300-20-20	-	-	-	-	-



**Standard BSP
Slip Nut Version**

HOSE ID	THREAD	Female 60° Cone Slip On Nut	90° Swept Elbow 60° Cone Slip On Nut	45° Swept Elbow 60° Cone Slip On Nut
Inch				
1/4"	1/4" BSP	0052-04-04	0152-04-04	0252-04-04
3/8"	3/8" BSP	0052-06-06	0152-06-06	0252-06-06
1/2"	1/2" BSP	0052-08-08	0152-08-08	0252-08-08
3/4"	3/4" BSP	0052-12-12	0152-12-12	0252-12-12



Flat Face BSP

HOSE ID	THREAD	Male Flat Face Seal	Female Flat Face Seal
Inch			
1/4"	1/4" BSP	0345-04-04	0060-04-04
1/4"	3/8" BSP	0345-04-06	0060-04-06
5/16"	3/8" BSP	0345-05-06	0060-05-06
3/8"	3/8" BSP	0345-06-06	0060-06-06
3/8"	1/2" BSP	0345-06-08	0060-06-08
1/2"	1/2" BSP	0345-08-08	0060-08-08
5/8"	5/8" BSP	0345-10-10	0060-10-10
3/4"	1/2" BSP	0345-12-08	0060-12-08
3/4"	3/4" BSP	0345-12-12	0060-12-12
3/4"	1" BSP	0345-12-16	0060-12-16
1"	1" BSP	0345-16-16	0060-16-16
1 1/2"	1 1/2" BSP	0345-24-24	0060-24-24
2"	2" BSP	0345-32-32	0060-32-32

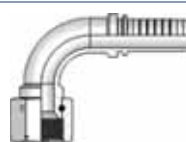


**Threaded Male
(BSPT / NPT)**

HOSE ID	THREAD	BSPT Male Taper	NPT Male Taper
Inch			
3/16"	1/8" BSP	0360-03-02	-
3/16"	1/4" BSP	0360-03-04	-
1/4"	1/8" BSP	0360-04-02	-
1/4"	1/4" BSP	0360-04-04	0370-04-04
1/4"	3/8" BSP	0360-04-06	0370-04-06
5/16"	1/4" BSP	0360-05-04	-
5/16"	3/8" BSP	0360-05-06	0370-05-06
3/8"	3/8" BSP	0360-06-06	0370-06-06
3/8"	1/2" BSP	0360-06-08	0370-06-08
1/2"	3/8" BSP	0360-08-06	0370-08-06
1/2"	1/2" BSP	0360-08-08	0370-08-08
5/8"	5/8" BSP	0360-10-10	0370-10-10
3/4"	1/2" BSP	-	0370-12-08
3/4"	3/4" BSP	0360-12-12	0370-12-12
3/4"	1" BSP	0360-12-16	0370-12-16
1"	1" BSP	0360-16-16	0370-16-16
1 1/4"	1 1/4" BSP	0360-20-20	0370-20-20
1 1/2"	1 1/2" BSP	0360-24-24	0370-24-24
2"	2" BSP	0360-32-32	0370-32-32



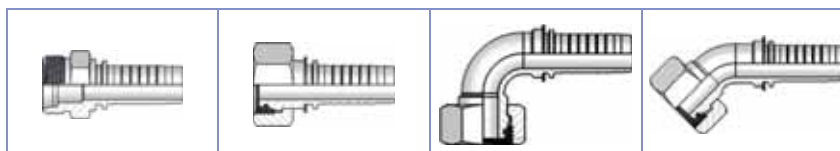
Standard JIC



HOSE ID Inch	THREAD	Male 74° Cone	Female 74° Cone	90° Swept Elbow 74° Cone	45° Swept 74° Cone
3/16"	7/16" JIC	0850-03-04	0900-03-04	0950-03-04	1000-03-04
1/4"	7/16" JIC	0850-04-04	0900-04-04	0950-04-04	1000-04-04
1/4"	1/2" JIC	0850-04-05	0900-04-05	0950-04-05	1000-04-05
1/4"	9/16" JIC	0850-04-06	0900-04-06	0950-04-06	1000-04-06
5/16"	1/2" JIC	0850-05-05	0900-05-05	0950-05-05	1000-05-05
5/16"	9/16" JIC	0850-05-06	0900-05-06	0950-05-06	1000-05-06
5/16"	3/4" JIC	0850-05-08	0900-05-08	0950-05-08	1000-05-08
3/8"	1/2" JIC	0850-06-05	0900-06-05	0950-06-05	1000-06-05
3/8"	9/16" JIC	0850-06-06	0900-06-06	0950-06-06	1000-06-06
3/8"	3/4" JIC	0850-06-08	0900-06-08	0950-06-08	1000-06-08
3/8"	7/8" JIC	0850-06-10	0900-06-10	0950-06-10	1000-06-10
1/2"	9/16" JIC	0850-08-06	0900-08-06	0950-08-06	1000-08-06
1/2"	3/4" JIC	0850-08-08	0900-08-08	0950-08-08	1000-08-08
1/2"	7/8" JIC	0850-08-10	0900-08-10	0950-08-10	1000-08-10
1/2"	7/8" JIC	-	0900-08-10A*	-	-
1/2"	1 1/16" JIC	0850-08-12	0900-08-12	0950-08-12	1000-08-12
5/8"	7/8" JIC	0850-10-10	0900-10-10	0950-10-10	1000-10-10
5/8"	1 1/16" JIC	0850-10-12	0900-10-12	0950-10-12	1000-10-12
3/4"	7/8" JIC	0850-12-10	0900-12-10	0950-12-10	1000-12-10
3/4"	1 1/16" JIC	0850-12-12	0900-12-12	0950-12-12	1000-12-12
3/4"	1 3/16" JIC	0850-12-14	0900-12-14	0950-12-14	1000-12-14
3/4"	1 5/16" JIC	0850-12-16	0900-12-16	0950-12-16	1000-12-16
3/4"	1 5/8" JIC	0850-12-20	0900-12-20	0950-12-20	1000-12-20
1"	1 1/16" JIC	0850-16-12	0900-16-12	0950-16-12	1000-16-12
1"	1 3/16" JIC	0850-16-14	0900-16-14	0950-16-14	1000-16-14
1"	1 5/16" JIC	0850-16-16	0900-16-16	0950-16-16	1000-16-16
1"	1 5/8" JIC	0850-16-20	0900-16-20	0950-16-20	1000-16-20
1 1/4"	1 5/8" JIC	0850-20-20	0900-20-20	0950-20-20	1000-20-20
1 1/4"	1 7/8" JIC	0850-20-24	0900-20-24	0950-20-24	1000-20-24
1 1/2"	1 7/8" JIC	0850-24-24	0900-24-24	0950-24-24	1000-24-24
2"	2 1/2" JIC	0850-32-32	0900-32-32	0950-32-32	1000-32-32

* Long body version

Hypress
METRIC
Light Series
 • 24° Seat

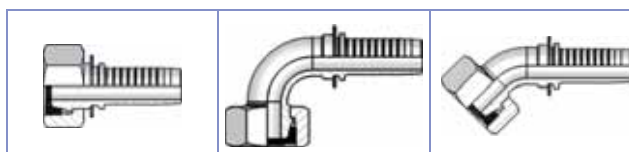


HOSE ID	THREAD	Male 24° Seat Light	Female 24° Seat Light	90° Swept Elbow 24° Seat Light	45° Swept 24° Seat Light
Inch					
3/16"	M12x1.5	0500-03-12	0085-03-12	0185-03-12	0285-03-12
1/4"	M12x1.5	0500-04-12	0085-04-12*	0185-04-12*	0285-04-12*
1/4"	M14x1.5	0500-04-14	0085-04-14	0185-04-14*	0285-04-14
1/4"	M16x1.5	0500-04-16	0085-04-16*	0185-04-16*	0285-04-16
1/4"	M18x1.5	0500-04-18	0085-04-18	0185-04-18	0285-04-18
5/16"	M14x1.5	0500-05-14	0085-05-14	0185-05-14	0285-05-14
5/16"	M16x1.5	0500-05-16	0085-05-16	0185-05-16	0285-05-16
5/16"	M18x1.5	0500-05-18	0085-05-18	0185-05-18	0285-05-18
5/16"	M22x1.5	0500-05-22	0085-05-22	0185-05-22	0285-05-22
3/8"	M16x1.5	0500-06-16	0085-06-16	0185-06-16	0285-06-16*
3/8"	M18x1.5	0500-06-18	0085-06-18	0185-06-18	0285-06-18
3/8"	M22x1.5	0500-06-22	0085-06-22	0185-06-22	0285-06-22
1/2"	M18x1.5	0500-08-18	0085-08-18*	0185-08-18	0285-08-18
1/2"	M22x1.5	0500-08-22	0085-08-22	0185-08-22	0285-08-22
1/2"	M26x1.5	0500-08-26	0085-08-26	0185-08-26	0285-08-26
5/8"	M22x1.5	0500-10-22	0085-10-22	0185-10-22	0285-10-22
5/8"	M26x1.5	0500-10-26	0085-10-26	0185-10-26	0285-10-26
5/8"	M30x2	0500-10-30	0085-10-30	0185-10-30	0285-10-30
3/4"	M26x1.5	0500-12-26	0085-12-26*	0185-12-26	0285-12-26
3/4"	M30x2	0500-12-30	0085-12-30	0185-12-30	0285-12-30
3/4"	M36x2	0500-12-36	0085-12-36	-	0285-12-36
1"	M36x2	0500-16-36	0085-16-36	0185-16-36	0285-16-36
1 1/4"	M45x2	0500-20-45	0085-20-45	0185-20-45	0285-20-45
1 1/2"	M52x2	0500-24-52	0085-24-52	0185-24-52	0285-24-52

* Note: = Rolled Nut.

Note: If the Metric Light Series fitting you require is not available please try Metric Multiseal type below as they are compatible.

Hypress
METRIC
Multiseal
 • 24° Seat



HOSE ID	THREAD	Female 24° Seat Light Multiseal	90° Swept Elbow 24° Seat Light Multiseal	45° Swept 24° Seat Light Multiseal
Inch				
3/16"	M12x1.5	0035-03-12	0135-03-12	0235-03-12
3/16"	M16x1.5	0035-03-16	0135-03-16	0235-03-16
1/4"	M12x1.5	0035-04-12	0135-04-12	0235-04-12
1/4"	M14x1.5	0035-04-14	0135-04-14	0235-04-14
1/4"	M16x1.5	0035-04-16	0135-04-16	0235-04-16
5/16"	M16x1.5	0035-05-16	0135-05-16	0235-05-16
5/16"	M18x1.5	0035-05-18	0135-05-18	0235-05-18
3/8"	M18x1.5	0035-06-18	0135-06-18	0235-06-18
3/8"	M22x1.5	0035-06-22	0135-06-22	0235-06-22
1/2"	M22x1.5	0035-08-22	0135-08-22	0235-08-22
1/2"	M26x1.5	0035-08-26	0135-08-26	0235-08-26
5/8"	M26x1.5	0035-10-26	0135-10-26	0235-10-26

Hypress
METRIC
Heavy Series
 • 24° Seat

HOSE ID		THREAD	Male 24° Seat Heavy	Female 24° Seat Heavy	90° Swept Elbow 24° Seat Heavy	45° Swept 24° Seat Heavy
Inch						
3/16"		M16x1.5	0450-03-16	0084-03-16	0184-03-16	0284-03-16
1/4"		M14x1.5	0450-04-14	0084-04-14	0184-04-14	0284-04-14
1/4"		M16x1.5	0450-04-16	0084-04-16	0184-04-16	0284-04-16
1/4"		M18x1.5	0450-04-18	0084-04-18	0184-04-18	0284-04-18
5/16"		M16x1.5	0450-05-16	0084-05-16	0184-05-16	0284-05-16
5/16"		M18x1.5	0450-05-18	0084-05-18	0184-05-18	0284-05-18
5/16"		M20x1.5	0450-05-20	0084-05-20	0184-05-20	0284-05-20
3/8"		M16x1.5	0450-06-16	0084-06-16	0184-06-16	0284-06-16
3/8"		M18x1.5	0450-06-18	0084-06-18	0184-06-18	0284-06-18
3/8"		M20x1.5	0450-06-20	0084-06-20	0184-06-20	0284-06-20
3/8"		M22x1.5	0450-06-22	0084-06-22	0184-06-22	0284-06-22
3/8"		M24x1.5	0450-06-24	0084-06-24	0184-06-24	0284-06-24
1/2"		M22x1.5	0450-08-22	0084-08-22	0184-08-22	0284-08-22
1/2"		M24x1.5	0450-08-24	0084-08-24	0184-08-24	0284-08-24
1/2"		M30x2	0450-08-30	0084-08-30	0184-08-30	0284-08-30
5/8"		M24x1.5	0450-10-24	0084-10-24	0184-10-24	0284-10-24
5/8"		M30x2	0450-10-30	0084-10-30	0184-10-30	0284-10-30
3/4"		M30x2	0450-12-30	0084-12-30	0184-12-30	0284-12-30
3/4"		M36x2	0450-12-36	0084-12-36	0184-12-36	0284-12-36
1"		M36x2	0450-16-36	0084-16-36	0184-16-36	0284-16-36
1"		M42x2	0450-16-42	0084-16-42	0184-16-42	0284-16-42
1 1/4"		M42x2	0450-20-42	0084-20-42	0184-20-42	0284-20-42
1 1/4"		M52x2	0450-20-52	0084-20-52	0184-20-52	0284-20-52
1 1/2"		M52x2	0450-24-52	0084-24-52	0184-24-52	0284-24-52

Hypress
French METRIC
 • 24° Seat

HOSE ID		THREAD	Male 24° Cone French Type	Female 24° Cone French Type	90° Swept Elbow 24° French Type
Inch					
5/16"		M18x1.5	0430-05-18	0030-05-18	0130-05-18
5/16"		M20x1.5	0430-05-20	0030-05-20	0130-05-20
3/8"		M20x1.5	0430-06-20	0030-06-20	0130-06-20
1/2"		M24x1.5	0430-08-24	0030-08-24	0130-08-24
5/8"		M30x1.5	0430-10-30	0030-10-30	0130S10-30*
3/4"		M30x1.5	0430-12-30	0030-12-30	0130-12-30
3/4"		M36x1.5	0430-12-36	0030-12-36	0130-12-36
1"		M45x1.5	0430-16-45	0030-16-45	0130-16-45
1 1/4"		M52x1.5	0430-20-52	0030-20-52	0130-20-52

* Note: = Welded.



**METRIC
Banjo Inserts**



HOSE ID Inch	THREAD	Banjo Insert	Banjo Adaptor
3/16"	M10x1.0	1350-03-10	-
3/16"	M12x1.5	1350-03-12	-
1/4"	M10x1.0	1350-04-10	-
1/4"	M12x1.5	1350-04-12	-
1/4"	M14x1.5	1350-04-14	-
5/16"	M14x1.5	1350-05-14	-
5/16"	M16x1.5	1350-05-16	-
5/16"	M18x1.5	1350-05-18	-
3/8"	M14x1.5	1350-06-14	-
3/8"	M16x1.5	1350-06-16	-
3/8"	M18x1.5	1350-06-18	1580-06-18
3/8"	M22x1.5	1350-06-22	1580-06-22
1/2"	M16x1.5	1350-08-16	-
1/2"	M18x1.5	1350-08-18	1580-08-18
1/2"	M22x1.5	1350-08-22	1580-08-22
5/8"	M22x1.5	1350-10-22	-
5/8"	M26x1.5	1350-10-26	-
3/4"	M22x1.5	1350-12-22	-
3/4"	M26x1.5	1350-12-26	-
1"	M30x1.5	1350-16-30	-



**METRIC
Banjo Bolt**



THREAD	USABLE LENGTH	Banjo
M10x1	19	1650-00-10
M12x1.5	26	1650-00-12
M14x1.5	29	1650-00-14
M16x1.5	33	1650-00-16
M18x1.5	37	1650-00-18
M20x1.5	38	1650-00-20
M22x1.5	38	1650-00-22
M26x1.5	47	1650-00-26
M30x1.5	58	1650-00-30



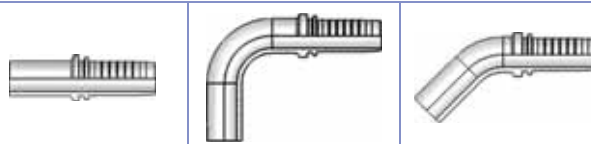
**Hose
Joiners**



HOSE ID Inch	Hose Joining Inserts
3/16"	D050-03
1/4"	D050-04
5/16"	D050-05
3/8"	D050-06
1/2"	D050-08
5/8"	D050-10
3/4"	D050-12
1"	D050-16
1 1/4"	D050-20
1 1/2"	D050-24
2"	D050-32



**METRIC
Standpipe Inserts**



HOSE ID	TUBE OD	Metric Stand Pipe	90° Metric Stand Pipe	45° Metric Stand Pipe
Inch	mm			
3/16"	6	0550-03-06	0650-03-06	0750-03-06
3/16"	8	0550-03-08	0650S03-08	0750-03-08
1/4"	6	0550-04-06	0650-04-06	0750-04-06
1/4"	8	0550-04-08	0650-04-08	0750-04-08
1/4"	10	0550-04-10	0650-04-10	0750-04-10
5/16"	10	0550-05-10	0650-05-10	0750-05-10
5/16"	12	0550-05-12	0650-05-12	0750-05-12
3/8"	10	0550-06-10	0650-06-10	0750-06-10
3/8"	12	0550-06-12	0650-06-12	0750-06-12
3/8"	14	0550-06-14	0650-06-14	0750-06-14
1/2"	12	0550-08-12	0650-08-12	0750-08-12
1/2"	14	0550-08-14	0650-08-14	0750-08-14
1/2"	15	0550-08-15	0650-08-15	0750S08-15
1/2"	16	0550-08-16	0650-08-16	0750-08-16
5/8"	18	0550-10-18	0650S10-18	0750S10-18
5/8"	20	0550-10-20	0650S10-20	0750S10-20
3/4"	22	0550-12-22	0650S12-22	0750S12-22
3/4"	25	0550-12-25	0650S12-25	0750S12-25
1"	28	0550-16-28	0650S16-28	0750S16-28
1"	30	0550-16-30	0650S16-30	0750S16-30
1 1/4"	35	0550-20-35	0650S20-35	0750S20-35
1 1/4"	38	0550-20-38	0650S20-38	0750S20-38

**Nuts & Rings
Light Series**



TUBE OD	THREAD	NUT LIGHT SERIES DIN3870	RING TO SUIT DIN3861
mm			
6	M10x1.0	M6LL*	R6LL*
6	M12x1.5	M6L	R6LS
8	M14x1.5	M8L	R8LS
10	M16x1.5	M10L	R10LS
12	M18x1.5	M12L	R12LS
15	M22x1.5	M15L	R15L
18	M26x1.5	M18L	R18L
22	M30x2.0	M22L	R22L
28	M36x2.0	M28L	R28L
35	M45x2.0	M35L	R35L

* LL = Extra light series.

**Nuts & Rings
Heavy Series**



TUBE OD	THREAD	NUT HEAVY SERIES DIN3870	RING TO SUIT DIN3861
mm			
6	M14x1.5	M6S	R6LS
8	M16x1.5	M8S	R8LS
10	M18x1.5	M10S	R10LS
12	M20x1.5	M12S	R12LS
14	M22x1.5	M14S	R14S
16	M24x1.5	M16S	R16S
20	M30x2.0	M20S	R20S
25	M36x2.0	M25S	R25S
30	M42x2.0	M30S	R30S
38	M52x2.0	M38S	R38S



JIS
to suit NISSAN / TOYOTA
• 60° Cone

JIS-N NISSAN JIS-T TOYOTA JIS-T TOYOTA JIS-T TOYOTA

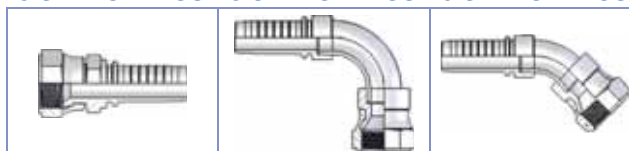


HOSE ID	THREAD	JIS-N Female 60° Cone (NISSAN)	JIS-T Female 60° Cone (TOYOTA)	JIS-T 90° Swept Elbow (TOYOTA) Welded	JIS-T 45° Swept Elbow (TOYOTA) Welded
Inch					
1/4"	1/4"	0920-04-04	0930-04-04	0980S04-04	1030S04-04
3/8"	3/8"	0920-06-06	0930-06-06	0980S06-06	1030S06-06
1/2"	1/2"	0920-08-08	0930-08-08	0980S08-08	1030S08-08
3/4"	3/4"	0920-12-12	0930-12-12	0980S12-12	1030S12-12
1"	1"	0920-16-16	0930-16-16	0980S16-16	1030S16-16
1 1/4"	1 1/4"	0920-20-20	0930-20-20	0980S20-20	1030S20-20
1 1/2"	1 1/2"	0920-24-24	0930-24-24	0980S24-24	1030S24-24



JIS
to suit KOMATSU
• 60° Cone

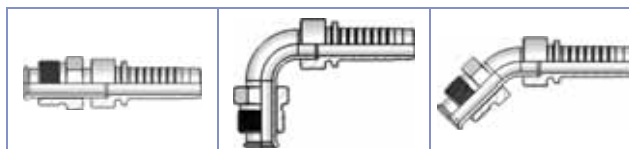
JIS-K KOMATSU JIS-K KOMATSU JIS-K KOMATSU



HOSE ID	THREAD	JIS-K Female 60° Cone (KOMATSU)	JIS-K 90° Swept Elbow (KOMATSU)	JIS-K 45° Swept Elbow (KOMATSU)
Inch				
1/4"	M14x1.5	0940-04-14	0990S04-14	1040S04-14
5/16"	M16x1.5	0940-05-16	0990S05-16	1040S05-16
3/8"	M14x1.5	0940-06-14	0990S06-14	1040S06-14
3/8"	M16x1.5	0940-06-16	0990S06-16	1040S06-16
3/8"	M18x1.5	0940-06-18	0990S06-18	1040S06-18
1/2"	M22x1.5	0940-08-22	0990S08-22	1040S08-22
5/8"	M24x1.5	0940-10-24	0990S10-24	1040S10-24
3/4"	M30x1.5	0940-12-30	0990S12-30	1040S12-30
1"	M33x1.5	0940-16-33	0990S16-33	1040S16-33
1 1/4"	M36x1.5	0940-20-36	0990S20-36	1040S20-36
1 1/2"	M42x1.5	0940-24-42	0990S24-42	1040S24-42



**SAE
Flare Swivel**



HOSE ID	THREAD SAE	Straight Male Inverted Flare Swivel	90° Male Inverted Flare Swivel	45° Male Inverted Flare Swivel
Inch				
1/4"	7/16"	IF00-04-04	IF90-04-04	-
1/4"	1/2"	-	IF90-04-05	-
3/8"	7/16"	IF00-06-04	-	IF45-06-04
3/8"	1/2"	IF00-06-05	IF90-06-05	IF45-06-05
3/8"	5/8"	IF00-06-07	IF90-06-07	IF45-06-07
3/8"	11/16"	IF00-06-09	IF90-06-09	IF45-06-09
1/2"	3/4"	IF00-08-08	IF90-08-08	-



ORFS

HOSE ID		THREAD (ORFS)	Male ORFS	Female ORFS	90° Swept Elbow	45° Swept Elbow	O' Ring to suit ORFS
Inch							
1/4"		9/16"	S350-04-06	S050-04-06	S150-04-06	S250-04-06	178766OR
1/4"		11/16"	S350-04-09	S050-04-09	S150-04-09	S250-04-09	178925OR
1/4"		13/16"	S350-04-11	S050-04-11	S150-04-11	S250-04-11	1781242OR
5/16"		11/16"	S350-05-09	S050-05-09	S150-05-09	S250-05-09	178925OR
3/8"		11/16"	S350-06-09	S050-06-09	S150-06-09	S250-06-09	178925OR
3/8"		13/16"	S350-06-11	S050-06-11	S150-06-11	S250-06-11	1781242OR
1/2"		13/16"	S350-08-11	S050-08-11	S150-08-11	S250-08-11	1781242OR
1/2"		1"	S350-08-13	S050-08-13	S150-08-13	S250-08-13	1781560OR
1/2"		1 3/16"	S350-08-14	S050-08-14	S150-08-14	S250-08-14	1781870OR
5/8"		1"	S350-10-13	S050-10-13	S150-10-13	S250-10-13	1781560OR
5/8"		1 3/16"	S350-10-14	S050-10-14	S150-10-14	S250-10-14	1781870OR
3/4"		1"	S350-12-13	S050-12-13	S150-12-13	S250-12-13	1781560OR
3/4"		1 3/16"	S350-12-14	S050-12-14	S150-12-14	S250-12-14	1781870OR
3/4"		1 7/16"	S350-12-15	S050-12-15	S150-12-15	S250-12-15	1782353OR
1"		1 3/16"	S350-16-14	S050-16-14	S150-16-14	S250-16-14	1781870OR
1"		1 7/16"	S350-16-15	S050-16-15	S150-16-15	S250-16-15	1782353OR
1"		1 11/16"	S350-16-21	S050-16-21	S150-16-21	S250-16-21	1782987OR
1 1/4"		1 11/16"	S350-20-21	S050-20-21	S150-20-21	S250-20-21	1782987OR



SAE Flanged to suit KOMATSU

• Short tail

HOSE ID	FLANGE		Straight Flange (KOMATSU)	90° Flange (KOMATSU)	45° Flange (KOMATSU)
	Inch	T mm			
5/8"	5/8"	34.0	1250-10-10	1050-10-10	1150-10-10



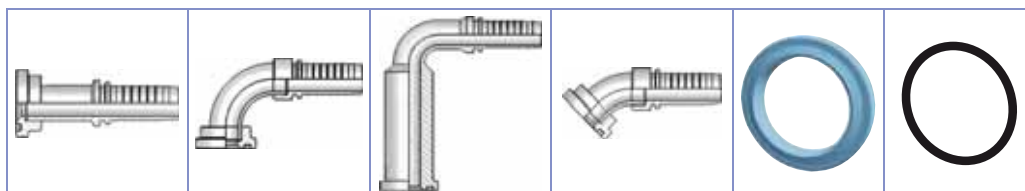
Flanged to suit CAT

HOSE ID	FLANGE		Straight CAT Flanged	90° CAT Flanged	45° CAT Flanged
	Inch	T mm			
3/4"	3/4"	41.3 x 14.5	130S-12-12	110S-12-12	120S-12-12
3/4"	1"	47.6 x 14.5	130S-12-16	110S-12-16	120S-12-16
1"	1"	47.6 x 14.5	130S-16-16	110S-16-16	120S-16-16
1"	1 1/4"	54 x 14.5	130S-16-20	110S-16-20	120S-16-20
1 1/4"	1 1/4"	54 x 14.5	130S-20-20	110S-20-20	120S-20-20
1 1/4"	1 1/2"	63.5 x 14.5	130S-20-24	110S-20-24	120S-20-24
1 1/2"	1 1/2"	63.5 x 14.5	130S-24-24	110S-24-24	120S-24-24



**3000PSI
SAE Flange Inserts**

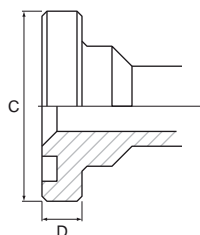
• Standard Tail



HOSE ID Inch	FLANGE		Straight SAE Flange 3000PSI	90° SAE Flange 3000PSI	90° SAE Flange Long Drop	45° SAE Flange 3000PSI	Polyurethane Seal to suit	O' Ring to suit
	Inch	mm						
1/2"	1/2"	30.2	1260-08-08	1060-08-08	FS3L-08-08	1160-08-08	GPP0-08	3531864OR
1/2"	3/4"	38.1	1260-08-12	1060-08-12	-	1160-08-12	GPP0-12	3532499OR
5/8"	1/2"	30.2	1260-10-08	1060-10-08	-	1160-10-08	GPP0-08	3531864OR
5/8"	3/4"	38.1	1260-10-12	1060-10-12	-	1160-10-12	GPP0-12	3532499OR
3/4"	3/4"	38.1	1260-12-12	1060-12-12	FS3L-12-12	1160-12-12	GPP0-12	3532499OR
3/4"	1"	44.5	1260-12-16	1060-12-16	-	1160-12-16	GPP0-16	3533293OR
1"	1"	44.5	1260-16-16	1060-16-16	FS3L-16-16	1160-16-16	GPP0-16	3533293OR
1"	1 1/4"	50.8	1260-16-20	1060-16-20	-	1160-16-20	GPP0-20	3533769OR
1 1/4"	1"	44.5	1260-20-16	1060-20-16	-	1160-20-16	GPP0-16	3533293OR
1 1/4"	1 1/4"	50.8	1260-20-20	1060-20-20	FS3L-20-20	1160-20-20	GPP0-20	3533769OR
1 1/4"	1 1/2"	60.3	1260-20-24	1060-20-24	-	1160-20-24	GPP0-24	3534722OR
1 1/2"	1 1/2"	60.3	1260-24-24	1060-24-24	FS3L-24-24	1160-24-24	GPP0-24	3534722OR
1 1/2"	2"	71.4	1260-24-32	1060-24-32	-	1160-24-32	GPP0-32	3535676OR
2"	2"	71.4	1260-32-32	1060-32-32	-	1160-32-32	GPP0-32	3535676OR

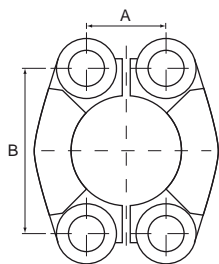
Note: If Short Tail version is not available please see Long Tail version page 41.

SAE Flange 3000PSI Identification



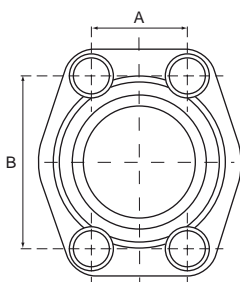
FLANGE		DIMENSIONS	
Inch	mm	C	D
1/2"	30.2	30.2	6.7
3/4"	38.1	38.1	6.7
1"	44.5	44.5	8.0
1 1/4"	50.8	50.8	8.0
1 1/2"	60.3	60.3	8.0
2"	71.4	71.4	9.5

SAE Split Flange 3000PSI



FLANGE		DIMENSIONS		PART NUMBER
Inch	mm	A	B	
1/2"	30.2	17.48	38.1	S003-08
3/4"	38.1	22.26	47.63	S003-12
1"	44.5	26.16	52.37	S003-16
1 1/4"	50.8	30.18	58.72	S003-20
1 1/2"	60.3	35.72	69.85	S003-24
2"	71.4	42.88	77.77	S003-32

SAE Threaded Flanges for 3000PSI



FLANGE		DIMENSIONS		THREAD	PART NUMBER
Inch	mm	A	B		
1/2"	30.2	17.48	38.1	3/8" BSP	AFS308GU06
1/2"	30.2	17.48	38.1	1/2" BSP	AFS308GU08
3/4"	38.1	22.26	47.63	1/2" BSP	AFS312GU08
3/4"	38.1	22.26	47.63	3/4" BSP	AFS312GU12
1"	44.5	26.16	52.37	3/4" BSP	AFS316GU12
1"	44.5	26.16	52.37	1" BSP	AFS316GU16
1 1/4"	50.8	30.18	58.72	1" BSP	AFS320GU16
1 1/4"	50.8	30.18	58.72	1 1/4" BSP	AFS320GU20
1 1/2"	60.3	35.72	69.85	1 1/4" BSP	AFS324GU20
1 1/2"	60.3	35.72	69.85	1 1/2" BSP	AFS324GU24
2"	71.4	42.88	77.77	1 1/2" BSP	AFS332GU24
2"	71.4	42.88	77.77	2" BSP	AFS332GU32



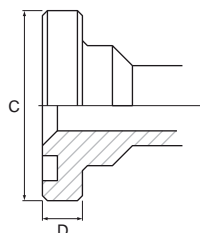
**6000PSI
SAE Flange Inserts**

• Standard Tail

HOSE ID			FLANGE			Straight SAE Flange 6000PSI	90° SAE Flange 6000PSI	45° SAE Flange 6000PSI	Polyurethane Seal to suit	O' Ring to suit
Inch	T	mm								
1/2"	1/2"	31.7	1310-08-08	1110-08-08	1210-08-08	GPP0-08	3531864OR			
1/2"	3/4"	41.3	1310-08-12	1110-08-12	1210-08-12	GPP0-10	3531864OR			
5/8"	1/2"	31.7	1310-10-08	1110-10-08	1210-10-08	GPP0-08	3531864OR			
5/8"	3/4"	41.3	1310-10-12	1110-10-12	1210-10-12	GPP0-12	3532499OR			
3/4"	1/2"	31.7	-	1110-12-08	-	GPP0-08	3532499OR			
3/4"	3/4"	41.3	1310-12-12	1110-12-12	1210-12-12	GPP0-12	3532499OR			
3/4"	1"	47.5	1310-12-16	1110-12-16	1210-12-16	GPP0-16	3533293OR			
1"	3/4"	41.3	1310-16-12	1110-16-12	1210-16-12	GPP0-12	3532499OR			
1"	1"	47.5	1310-16-16	1110-16-16	1210-16-16	GPP0-16	3533293OR			
1"	1 1/4"	54	1310-16-20	1110-16-20	1210-16-20	GPP0-20	3533769OR			
1 1/4"	1 1/4"	54	1310-20-20	1110-20-20	1210-20-20	GPP0-20	3533769OR			
1 1/4"	1 1/2"	63.5	1310-20-24	1110-20-24	1210-20-24	GPP0-24	3534722OR			
1 1/2"	1 1/2"	63.5	1310-24-24	1110-24-24	1210-24-24	GPP0-24	3534722OR			
1 1/2"	2"	79.4	1310-24-32	1110-24-32	1210-24-32	GPP0-32	3535676OR			
2"	2"	79.4	1310-32-32	1110-32-32	1210-32-32	GPP0-32	3535676OR			

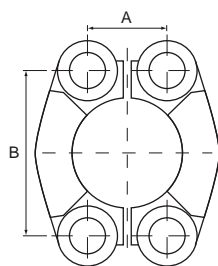
Note: If Short Tail version is not available please see Long Tail version page 42.

SAE Flange 6000PSI Identification



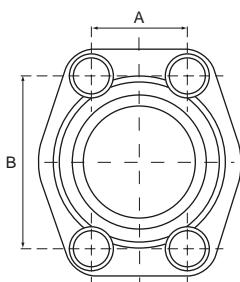
FLANGE		DIMENSIONS	
Inch	mm	C	D
1/2"	30.2	31.7	7.8
3/4"	38.1	41.3	8.8
1"	44.5	47.6	9.5
1 1/4"	50.8	54.0	10.3
1 1/2"	60.3	63.5	12.6
2"	71.4	79.4	12.6

SAE Split Flange 6000PSI



FLANGE		DIMENSIONS		PART NUMBER
Inch	mm	A	B	
1/2"	31.7	18.24	40.49	S006-08
3/4"	41.3	23.80	50.80	S006-12
1"	47.6	27.76	57.15	S006-16
1 1/4"	54.0	31.75	66.68	S006-20
1 1/2"	63.5	36.50	79.38	S006-24
2"	79.4	44.45	96.82	S006-32

SAE Threaded Flanges for 6000PSI



FLANGE		DIMENSIONS		THREAD	PART NUMBER
Inch	mm	A	B		
1/2"	31.7	18.24	40.49	3/8" BSP	AFS608GU06
1/2"	31.7	18.24	40.49	1/2" BSP	AFS608GU08
3/4"	41.3	23.80	50.80	1/2" BSP	AFS612GU08
3/4"	41.3	23.80	50.80	3/4" BSP	AFS612GU12
1"	47.6	27.76	57.15	3/4" BSP	AFS616GU12
1"	47.6	27.76	57.15	1" BSP	AFS616GU16
1 1/4"	54.0	31.75	66.68	1" BSP	AFS620GU16
1 1/4"	54.0	31.75	66.68	1 1/4" BSP	AFS620GU20
1 1/2"	63.5	36.50	79.38	1 1/4" BSP	AFS624GU20
1 1/2"	63.5	36.50	79.38	1 1/2" BSP	AFS624GU24
2"	79.4	44.45	96.82	1 1/2" BSP	AFS632GU24
2"	79.4	44.45	96.82	2" BSP	AFS632GU32



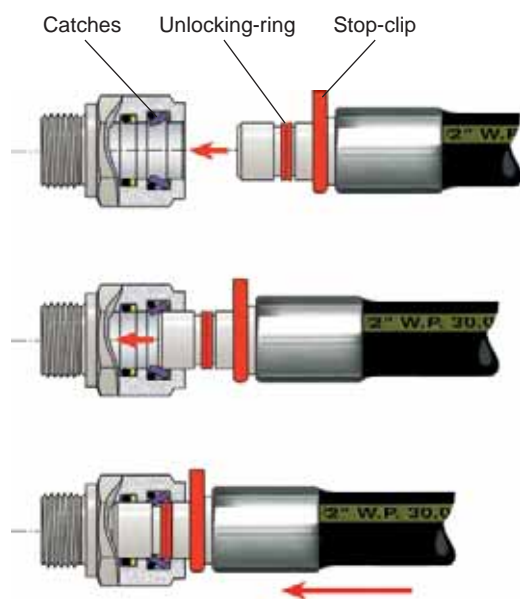
WEO Plug-In Couplings

WEO plug-in is a new type of coupling that is self locking, thus negating the need for spanners and torque wrenches to connect or disconnect them. This makes it easier to build more compact and reliable hydraulic systems and design, particularly in applications where space is often very limited. Quick and easy to connect and disconnect, the WEO plug-in swivels freely which eliminates the stresses that can arise during installation and therefore extend the life of the hose. The WEO coupling is now fitted by leading original equipment manufacturers benefiting from its quick and easy connect and disconnect feature.

The WEO plug-in coupling has been tested by the Swedish Institute of Materials Testing and Research to SS-ISO 8032, half Omega test. The working pressure for all couplings between 1/4" and 3/4" is 350 bar, while 1" couplings are rated at 250 bar. A safety factor of at least 4:1 between burst pressure and working pressure applies to all sizes.

Temperature range -30°C to +100°C (short exposure +120°C)

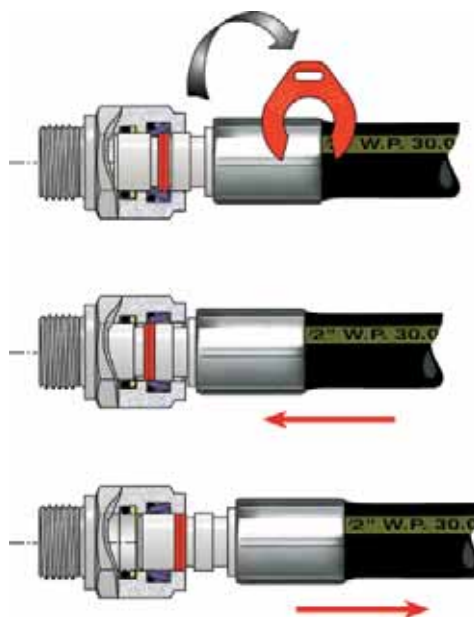
Easy to connect . . .



Check that the stop-clip is in place and that the unlocking-ring runs freely in its groove. The plug is pushed into the socket so that the catches are pressed outwards.

The plug is pushed all the way in until the stop-clip touches the socket. The O-ring presses the catches inwards so that they grip the locking flange on the plug. The coupling is now locked and cannot be disconnected. The coupling is sealed by an internal O-ring.

. . . and just as easy to disconnect




The stop-clip is removed (using a screwdriver, for example). The plug is pushed in so that the unlocking-ring pushes the catches aside.

As the plug is pulled out its outer flange connects with the unlocking ring and draws it backwards, preventing the catches from locking and allowing the plug to be fully withdrawn.

WEO Couplings

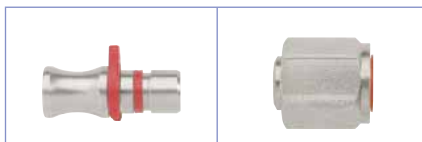
- Temp: -30°C to +100°C
- SAE100R1/R2



HOSE ID Inch	WEO SERIES	WEO Size Identification	STRAIGHT MALE	STRAIGHT FEMALE	45° MALE	90° MALE
3/16"	1/4"	Ø = 10mm	14710-04-03	-	-	-
1/4"	1/4"		14710-04-04	14817-04-04	14712-04-04	14714-04-04
1/4"	3/8"	Ø = 13mm	14710-04-06	-	-	-
5/16"	3/8"		14710-05-06	-	-	-
3/8"	3/8"		14710-06-06	14817-06-06	14712-06-06	14714-06-06
3/8"	1/2"	Ø = 16mm	14710-06-08	-	-	14714-08-06
1/2"	1/2"		14710-08-08	14817-08-08	14712-08-08	14714-08-08
1/2"	3/4"	Ø = 23mm	14710-08-12	-	-	-
5/8"	3/4"		14710-10-12	-	-	-
3/4"	3/4"		14710-12-12	14817-12-12	14712-12-12	14714-12-12
1"	1"	Ø = 30mm	14710-16-16	14817-16-16	-	-

WEO Couplings

- Temp: -30°C to +100°C
- SAE100R1/R2



WEO SERIES	MALE STOP	FEMALE STOP
1/4"	14723-04-00	14811-04-00
3/8"	14723-06-00	14811-06-00
1/2"	14723-08-00	14811-08-00
3/4"	14723-12-00	14811-12-00
1"	14723-16-00	14811-16-00

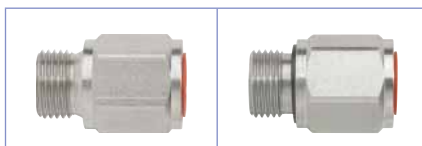
WEO Clip



WEO SERIES	WEO CLIP
1/4"	14749-04-00
3/8"	14749-06-00
1/2"	14749-08-00
3/4"	14749-12-00
1"	14749-16-00

WEO BSP Adaptor


- Temp: -30°C to +100°C
- SAE100R1/R2



THREAD	WEO SERIES	FEMALE G-THREAD	FEMALE G-THREAD WITH O-RING
1/4"	1/4"	14810-04-04	14830-04-04
3/8"	3/8"	14810-06-06	14830-06-06
1/2"	1/2"	14810-08-08	14830-08-08
3/4"	3/4"	14810-12-12	14830-12-12
1"	1"	14810-16-16	14830-16-16

WEO UNF Adaptor


- Temp: -30°C to +100°C
- SAE100R1/R2



THREAD	WEO SERIES	FEMALE UNF-THREAD
7/16" UNF	1/4"	14826-04-07
9/16" UNF	3/8"	14826-06-09
3/4" UNF	1/2"	14826-08-12
7/8" UNF	1/2"	14826-08-14
1 1/16" UNF	1/2"	14826-08-17
1 1/16" UNF	3/4"	14826-12-17
1 5/16" UNF	1"	14826-16-21

WEO METRIC Adaptor


- Temp: -30°C to +100°C
- SAE100R1/R2



THREAD	WEO SERIES	MALE THREAD
M12x1.5	3/8"	14831-06-12
M16x1.5	3/8"	14831-06-16
M18x1.5	1/2"	14831-08-18
M22x1.5	3/4"	14831-12-22
M27x2	3/4"	14831-12-27

WEO Bulkhead Adaptor

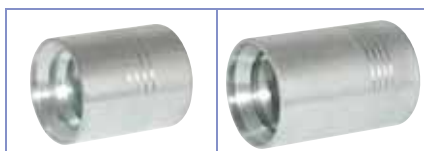
- Temp: -30°C to +100°C
- SAE100R1/R2



THREAD	WEO SERIES	BULKHEAD
M21.5x1.5	1/4"	14813-04-44
M26x1.5	3/8"	14813-06-46
M30x2	1/2"	14813-08-48



**SKIVE
MULTISPIRAL
Ferrules**



HOSE ID Inch	DASH SIZE	TO SUIT 4SP - Short (4 wire hose)	TO SUIT 4SP - Long (4 wire hose)
		1/4"	04
3/8"	06	0009-06	0019-06
1/2"	08	0009-08	0019-08
5/8"	10	0009-10	0019-10
3/4"	12	0009-12	0019-12
1"	16	0009-16	0019-16
1 1/4"	20	0009-20	-
1 1/2"	24	0009-24	-
2"	32	0009-32	-

Note: 0009 Ferrules can be used with standard tail hose inserts on multispiral hose.

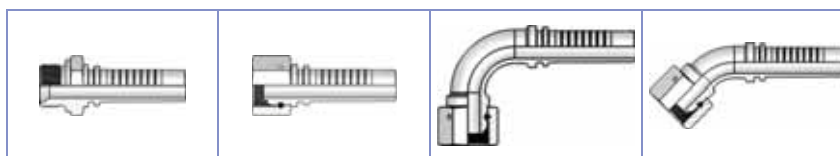


**NON SKIVE
MULTISPIRAL
Ferrules**



HOSE ID Inch	DASH SIZE	TO SUIT 4SP (4 wire hose)
		1/4"
3/8"	06	-
1/2"	08	-
5/8"	10	-
3/4"	12	BMC1-12
1"	16	BMC1-16
1 1/4"	20	BMC2-20
1 1/2"	24	BMC2-24
2"	32	-

**MULTISPIRAL
BSP
Long Tail**



HOSE ID Inch	THREAD	Male Parallel 60° Cone	Female 60° Cone	90° Swept Elbow 60° Cone	45° Swept 60° Cone
1/4"	1/4" BSP	0350M04-04	0050M04-04	0150M04-04	0250M04-04
3/8"	3/8" BSP	0350M06-06	0050M06-06	0150M06-06	0250M06-06
1/2"	1/2" BSP	0350M08-08	0050M08-08	0150M08-08	0250M08-08
5/8"	5/8" BSP	0350M10-10	0050M10-10	0150M10-10	0250M10-10
3/4"	3/4" BSP	0350M12-12	0050M12-12	0150M12-12	0250M12-12
1"	1" BSP	0350M16-16	0050M16-16	0150M16-16	0250M16-16
1 1/4"	1 1/4" BSP	-	0050M20-20	0150M20-20	0250M20-20

**MULTISPIRAL
NPTF
Long Tail**



HOSE ID Inch	THREAD	NPTF Male 60° Cone
1/4"	1/4" NPTF	0370M04-04
1/4"	3/8" NPTF	0370M04-06
3/8"	3/8" NPTF	0370M06-06
1/2"	1/2" NPTF	0370M08-08
3/4"	3/4" NPTF	0370M12-12
1"	1" NPTF	0370M16-16

HyPress
MULTISPIRAL
JIC
Long Tail

HOSE ID		THREAD	Male 74° Cone	Female 74° Cone	90° Swept Elbow 74° Cone	45° Swept Elbow 74° Cone
Inch						
1/4"	7/16" JIC		0850M04-04	0900M04-04	0950M04-04	1000M04-04
1/4"	1/2" JIC		-	0900M04-05	-	-
1/4"	9/16" JIC		-	0900M04-06	-	-
3/8"	9/16" JIC		0850M06-06	0900M06-06	0950M06-06	1000M06-06
3/8"	3/4" JIC		0850M06-08	0900M06-08	-	1000M06-08
1/2"	3/4" JIC		0850M08-08	0900M08-08	0950M08-08	1000M08-08
1/2"	7/8" JIC		0850M08-10	0900M08-10	0950M08-10	1000M08-10
5/8"	7/8" JIC		0850M10-10	0900M10-10	0950M10-10	1000M10-10
5/8"	1 1/16" JIC		0850M10-12	-	-	-
3/4"	1 1/16" JIC		0850M12-12	0900M12-12	0950M12-12	1000M12-12
3/4"	1 5/16" JIC		-	0900M12-16	-	-
1"	1 5/16" JIC		0850M16-16	0900M16-16	0950M16-16	1000M16-16
1"	1 5/8" JIC		-	0900M16-20	-	-

HyPress
MULTISPIRAL
METRIC Heavy
Series Long Tail

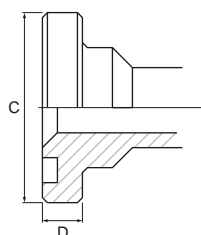
HOSE ID		THREAD	Male 24° Seat Heavy	Female 24° Seat Heavy	90° Swept Elbow 24° Seat Heavy	45° Swept 24° Seat Heavy
Inch						
1/4"	M16x1.5		0450M04-16	0084M04-16	0184M04-16	0284M04-16
1/4"	M18x1.5		-	0084M04-18	-	-
3/8"	M20x1.5		0450M06-20	0084M06-20	0184M06-20	0284M06-20
3/8"	M22x1.5		0450M06-22	0084M06-22	0184M06-22	-
1/2"	M24x1.5		0450M08-24	0084M08-24	0184M08-24	0284M08-24
5/8"	M30x2		0450M10-30	0084M10-30	0184M10-30	0284M10-30
3/4"	M30x2		0450M12-30	0084M12-30	0184M12-30	0284M12-30
3/4"	M36x2		0450M12-36	0084M12-36	0184M12-36	0284M12-36
1"	M36x2		0450M16-36	0084M16-36	0184M16-36	0284M16-36
1"	M42x2		0450M16-42	0084M16-42	0184M16-42	0284M16-42
1 1/4"	M52x2		0450M20-52	-	-	-



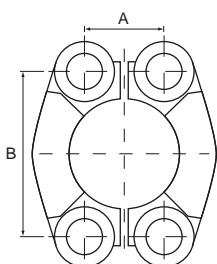
MULTISPIRAL SAE Flange 3000PSI

HOSE ID		FLANGE		Straight SAE Flange 3000PSI	90° SAE Flange 3000PSI	45° SAE Flange 3000PSI		
Inch	T	mm						
1/2"	1/2"	30.2		1250M08-08	1050M08-08	1150M08-08	GPP0-08	3531864OR
1/2"	3/4"	38.1		1250M08-12	1050M08-12	1150M08-12	GPP0-12	3532499OR
5/8"	3/4"	38.1		1250M10-12	1050M10-12	1150M10-12	GPP0-12	3532499OR
3/4"	3/4"	38.1		1250M12-12	1050M12-12	1150M12-12	GPP0-12	3532499OR
3/4"	1"	44.5		1250M12-16	1050M12-16	1150M12-16	GPP0-16	3533293OR
1"	1"	44.5		1250M16-16	1050M16-16	1150M16-16	GPP0-16	3533293OR
1"	1 1/4"	50.8		1250M16-20	1050M16-20	1150M16-20	GPP0-20	3533769OR

SAE Flange 3000PSI Identification

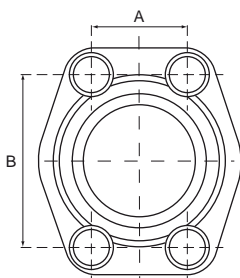


FLANGE	DIMENSIONS	
Inch	C	D
1/2"	30.2	6.7
3/4"	38.1	6.7
1"	44.5	8.0
1 1/4"	50.8	8.0
1 1/2"	60.3	8.0
2"	71.4	9.5



SAE Split Flange 3000PSI

FLANGE		DIMENSIONS		PART NUMBER
Inch	mm	A	B	
1/2"	30.2	17.48	38.1	S003-08
3/4"	38.1	22.26	47.63	S003-12
1"	44.5	26.16	52.37	S003-16
1 1/4"	50.8	30.18	58.72	S003-20
1 1/2"	60.3	35.72	69.85	S003-24
2"	71.4	42.88	77.77	S003-32



SAE Threaded Flanges for 3000PSI

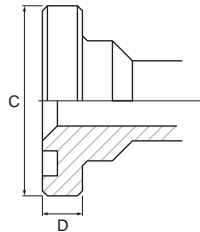
FLANGE		DIMENSIONS		THREAD	PART NUMBER
Inch	mm	A	B		
1/2"	30.2	17.48	38.1	3/8" BSP	AFS308GU06
1/2"	30.2	17.48	38.1	1/2" BSP	AFS308GU08
3/4"	38.1	22.26	47.63	1/2" BSP	AFS312GU08
3/4"	38.1	22.26	47.63	3/4" BSP	AFS312GU12
1"	44.5	26.16	52.37	3/4" BSP	AFS316GU12
1"	44.5	26.16	52.37	1" BSP	AFS316GU16
1 1/4"	50.8	30.18	58.72	1" BSP	AFS320GU16
1 1/4"	50.8	30.18	58.72	1 1/4" BSP	AFS320GU20
1 1/2"	60.3	35.72	69.85	1 1/4" BSP	AFS324GU20
1 1/2"	60.3	35.72	69.85	1 1/2" BSP	AFS324GU24
2"	71.4	42.88	77.77	1 1/2" BSP	AFS332GU24
2"	71.4	42.88	77.77	2" BSP	AFS332GU32



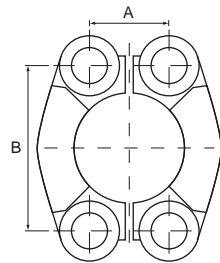
MULTISPIRAL SAE Flange 6000PSI

HOSE ID		FLANGE	Straight SAE Flange 6000PSI	90° SAE Flange 6000PSI	45° SAE Flange 6000PSI	Polyurethane Seal to suit	O' Ring to suit
Inch	T	mm					
1/2"	1/2"	31.7	1300M08-08	1100M08-08	1200M08-08	GPP0-08	3531864OR
1/2"	3/4"	41.3	1300M08-12	1100M08-12	1200M08-12	GPP0-12	3532499OR
5/8"	3/4"	41.3	1300M10-12	1100M10-12	1200M10-12	GPP0-12	3532499OR
3/4"	3/4"	41.3	1300M12-12	1100M12-12	1200M12-12	GPP0-12	3532499OR
3/4"	1"	47.6	1300M12-16	1100M12-16	1200M12-16	GPP0-16	3533293OR
3/4"	1 1/4"	54.0	1300M12-20	-	-	GPP0-20	3533769OR
1"	3/4"	41.3	1300M16-12	1100M16-12	1200M16-12	GPP0-12	3532499OR
1"	1"	47.6	1300M16-16	1100M16-16	1200M16-16	GPP0-16	3533293OR
1"	1 1/4"	54.0	1300M16-20	1100M16-20	1200M16-20	GPP0-20	3533769OR

SAE Flange 6000PSI Identification

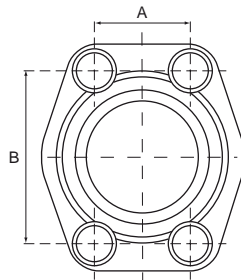


FLANGE	DIMENSIONS	
Inch	C	D
1/2"	31.7	7.8
3/4"	41.3	8.8
1"	47.6	9.5
1 1/4"	54.0	10.3
1 1/2"	63.5	12.6
2"	79.4	12.6



SAE Split Flange 6000PSI

FLANGE		DIMENSIONS		PART NUMBER
Inch	mm	A	B	
1/2"	31.7	18.24	40.49	S006-08
3/4"	41.3	23.80	50.80	S006-12
1"	47.6	27.76	57.15	S006-16
1 1/4"	54.0	31.75	66.68	S006-20
1 1/2"	63.5	36.50	79.38	S006-24
2"	79.4	44.45	96.82	S006-32

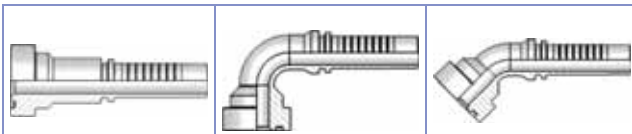


SAE Threaded Flanges for 6000PSI

FLANGE		DIMENSIONS		THREAD	PART NUMBER
Inch	mm	A	B		
1/2"	31.7	18.24	40.49	3/8" BSP	AFS608GU06
1/2"	31.7	18.24	40.49	1/2" BSP	AFS608GU08
3/4"	41.3	23.80	50.80	1/2" BSP	AFS612GU08
3/4"	41.3	23.80	50.80	3/4" BSP	AFS612GU12
1"	47.6	27.76	57.15	3/4" BSP	AFS616GU12
1"	47.6	27.76	57.15	1" BSP	AFS616GU16
1 1/4"	54.0	31.75	66.68	1" BSP	AFS620GU16
1 1/4"	54.0	31.75	66.68	1 1/4" BSP	AFS620GU20
1 1/2"	63.5	36.50	79.38	1 1/4" BSP	AFS624GU20
1 1/2"	63.5	36.50	79.38	1 1/2" BSP	AFS624GU24
2"	79.4	44.45	96.82	1 1/2" BSP	AFS632GU24
2"	79.4	44.45	96.82	2" BSP	AFS632GU32



MULTISPIRAL
to suit CAT
SAE

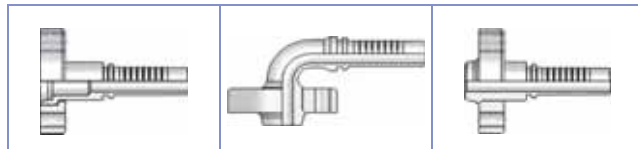


HOSE ID		FLANGE		Straight CAT Flange	90° CAT Flange	45° CAT Flange
Inch	T	mm				
3/4"	3/4"	41.3 x 14.5		130SM12-12	110SM12-12	120SM12-12
3/4"	1"	47.6 x 14.5		130SM12-16	110SM12-16	120SM12-16
1"	1"	47.6 x 14.5		130SM16-16	110SM16-16	120SM16-16
1"	1 1/4"	54.0 x 14.5		130SM16-20	110SM16-20	120SM16-20



MULTISPIRAL
POCLAIN

• 2 Hole Flange

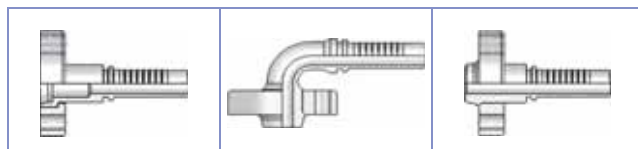
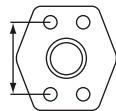


HOSE ID	FLANGE SIZE	FLANGE BOLT TO BOLT	Poclairn Male 2 Bolt	Poclairn 90° Female 2 Bolt	Poclairn Female 2 Bolt
1/2"	1/2"	44	F432M08-08	F132M08-08	F032M08-08
5/8"	5/8"	44	F432M10-10	F132M10-10	F032M10-10
3/4"	3/4"	56	F432M12-12	F132M12-12	F032M12-12
1"	1"	64	F432M16-16	F132M16-16	F032M16-16
1 1/4"	1 1/4"	74	F432M20-20	F132M20-20	F032M20-20









MULTISPIRAL
POCLAIN

• 4 Hole Flange



HOSE ID	FLANGE SIZE	FLANGE BOLT TO BOLT	Poclairn Male 4 Bolt	Poclairn 90° Female 4 Bolt	Poclairn Female 4 Bolt
1/2"	1/2"	40	F434M08-08	F134M08-08	F034M08-08
5/8"	5/8"	40	F434M10-10	F134M10-10	F034M10-10
3/4"	3/4"	51	F434M12-12	F134M12-12	F034M12-12
1"	1"	57	F434M16-16	F134M16-16	F034M16-16
1 1/4"	1 1/4"	67	F434M20-20	F134M20-20	F034M20-20

Hypress
BSP
Adaptors

							
THREAD	THREAD	Male Male	Male Male Bulkhead	Male Female Swivel	Male Female Fixed	Female Female Swivel	Female Female Fixed
1/8" BSP	1/8" BSP	636-02-02	-	626-02-02	-	616-02-02	A105-02-02
1/8" BSP	1/4" BSP	635-02-04	-	625-02-04	-	-	A105-02-04
1/8" BSP	3/8" BSP	635-02-06	-	-	-	-	A105-02-06
1/4" BSP	1/8" BSP	-	-	-	2010-04-02	-	-
1/4" BSP	1/4" BSP	636-04-04	640-04-04	626-04-04	2000-04-33	616-04-04	A105-04-04
1/4" BSP	3/8" BSP	635-04-06	-	625-04-06	-	615-04-06	A105-04-06
1/4" BSP	1/2" BSP	635-04-08	-	625-04-08	-	615-04-08	A105-04-08
1/4" BSP	5/8" BSP	635-04-10	-	-	-	-	-
1/4" BSP	3/4" BSP	635-04-12	-	-	-	-	-
1/4" BSP	1" BSP	635-04-16	-	-	-	-	-
3/8" BSP	1/4" BSP	-	-	625-06-04	-	-	-
3/8" BSP	3/8" BSP	636-06-06	640-06-06	626-06-06	2000-06-54	616-06-06	A105-06-06
3/8" BSP	1/2" BSP	635-06-08	-	625-06-08	-	615-06-08	A105-06-08
3/8" BSP	5/8" BSP	635-06-10	-	-	-	615-06-10	-
3/8" BSP	3/4" BSP	635-06-12	-	625-06-12	-	-	A105-06-12
3/8" BSP	1" BSP	635-06-16	-	625-06-16	-	-	-
1/2" BSP	1/4" BSP	-	-	625-08-04	-	-	-
1/2" BSP	3/8" BSP	-	640-08-06	625-08-06	-	-	-
1/2" BSP	1/2" BSP	636-08-08	640-08-08	626-08-08	2000-08-45	616-08-08	A105-08-08
1/2" BSP	5/8" BSP	635-08-10	-	625-08-10	-	615-08-10	A105-08-10
1/2" BSP	3/4" BSP	635-08-12	-	625-08-12	-	615-08-12	A105-08-12
1/2" BSP	1" BSP	635-08-16	-	625-08-16	-	-	A105-08-16
5/8" BSP	1/2" BSP	-	-	625-10-08	-	-	-
5/8" BSP	5/8" BSP	636-10-10	640-10-10	626-10-10	2000-10-60	616-10-10	A105-10-10
5/8" BSP	3/4" BSP	635-10-12	-	625-10-12	-	615-10-12	A105-10-12
5/8" BSP	1" BSP	635-10-16	-	-	-	-	-
3/4" BSP	3/8" BSP	-	-	625-12-06	-	-	-
3/4" BSP	1/2" BSP	-	-	625-12-08	-	-	-
3/4" BSP	5/8" BSP	-	-	625-12-10	-	-	-
3/4" BSP	3/4" BSP	636-12-12	640-12-12	626-12-12	2000-12-57	616-12-12	A105-12-12
3/4" BSP	1" BSP	635-12-16	-	625-12-16	-	615-12-16	A105-12-16
3/4" BSP	1 1/4" BSP	635-12-20	-	-	-	-	A105-12-20
3/4" BSP	1 1/2" BSP	635-12-24	-	-	-	-	-
1" BSP	3/4" BSP	-	-	625-16-12	-	-	-
1" BSP	1" BSP	636-16-16	640-16-16	626-16-16	2000-16-50	616-16-16	A105-16-16
1" BSP	1 1/4" BSP	635-16-20	-	625-16-20	-	-	A105-16-20
1" BSP	1 1/2" BSP	635-16-24	-	-	-	-	-
1" BSP	2" BSP	635-16-32	-	-	-	-	-
1 1/4" BSP	1" BSP	-	-	625-20-16	-	-	-
1 1/4" BSP	1 1/4" BSP	636-20-20	640-20-20	626-20-20	2000-20-62	616-20-20	A105-20-20
1 1/4" BSP	1 1/2" BSP	635-20-24	-	625-20-24	-	-	A105-20-24
1 1/4" BSP	2" BSP	635-20-32	-	-	-	-	A105-20-32
1 1/2" BSP	1 1/4" BSP	-	-	625-24-20	-	-	-
1 1/2" BSP	1 1/2" BSP	636-24-24	-	626-24-24	2000-24-62	616-24-24	A105-24-24
1 1/2" BSP	2" BSP	635-24-32	-	-	-	-	-
2" BSP	1 1/4" BSP	-	-	625-32-20	-	-	-
2" BSP	2" BSP	636-32-32	-	626-32-32	2000-32-62	616-32-32	A105-32-32

HyPress BSP Restrictor Adaptors



THREAD	THREAD	RESTRICTION	PART NUMBER
1/4" Male	1/4" Male	1mm	636-04-04R1
1/4" Male	3/8" Male	1mm	635-04-06R1
3/8" Male	3/8" Male	1mm	636-06-06R1
3/8" Male	3/8" Male	1.5mm	636-06-06R1.5
3/8" Male	1/2" Male	1mm	635-06-08R1
3/8" Male	1/2" Male	1.5mm	635-06-08R1.5
3/8" Male	1/2" Male	2mm	635-06-08R2
3/8" Male	3/8" Male	Blank (Undrilled)	636-6BLANK
3/8" Male	1/2" Male	Blank (Undrilled)	635-06-08BLANK

HyPress Bulkhead Nuts



THREAD	PART NUMBER
1/4"	640-04-04LN
3/8"	640-06-06LN
1/2"	640-08-08LN
3/4"	640-12-12LN
1"	640-16-16LN
1 1/4"	640-20-20LN



HyPress Brake Line Junction Kit

DESCRIPTION	THREAD	PART NUMBER
5 line brake junction kit	3/8" Male (x5)	BR06X5A

Hypress
BSP 90°
Adaptors

THREAD	Male Male 90° Swept	Male Male 90° Blocked	Male Female 90° Swept	Male Female 90° Blocked	Female Female 90° Swept	Female Female 90° Blocked
1/8" BSP	-	6369-02-02B	6269-02-02	6269-02-02B	6169-02-02	6169-02-02B
1/4" BSP	6369-04-04	6369-04-04B	6269-04-04	6269-04-04B	6169-04-04	6169-04-04B
3/8" BSP	6369-06-06	6369-06-06B	6269-06-06	6269-06-06B	6169-06-06	6169-06-06B
1/2" BSP	6369-08-08	6369-08-08B	6269-08-08	6269-08-08B	6169-08-08	6169-08-08B
5/8" BSP	6369-10-10	6369-10-10B	6269-10-10	6269-10-10B	6169-10-10	6169-10-10B
3/4" BSP	6369-12-12	6369-12-12B	6269-12-12	6269-12-12B	6169-12-12	6169-12-12B
1" BSP	6369-16-16	6369-16-16B	6269-16-16	6269-16-16B	6169-16-16	6169-16-16B
1 1/4" BSP	6369-20-20	6369-20-20B	6269-20-20	6269-20-20B	6169-20-20	6169-20-20B
1 1/2" BSP	6369-24-24	6369-24-24B	6269-24-24	6269-24-24B	6169-24-24	6169-24-24B
2" BSP	6369-32-32	6369-32-32B	6269-32-32	6269-32-32B	6169-32-32	6169-32-32B

Hypress
BSP
Cross &
'T' Pieces

THREAD	Male Cross	Male 'T'	Male Female Male 'T'	Female Male Male 'T'	Female 'T' Swivel	Female 'T' Fixed
1/8" BSP	XMMMM02	TMMM-02	TMFM-02	TFMM-02	TFFF-02	4820-02
1/4" BSP	XMMMM04	TMMM-04	TMFM-04	TFMM-04	TFFF-04	4820-04
3/8" BSP	XMMMM06	TMMM-06	TMFM-06	TFMM-06	TFFF-06	4820-06
1/2" BSP	XMMMM08	TMMM-08	TMFM-08	TFMM-08	TFFF-08	4820-08
5/8" BSP	XMMMM10	TMMM-10	TMFM-10	TFMM-10	TFFF-10	4820-10
3/4" BSP	XMMMM12	TMMM-12	TMFM-12	TFMM-12	TFFF-12	4820-12
1" BSP	XMMMM16	TMMM-16	TMFM-16	TFMM-16	TFFF-16	4820-16
1 1/4" BSP	XMMMM20	TMMM-20	TMFM-20	TFMM-20	TFFF-20	4820-20
1 1/2" BSP	XMMMM24	TMMM-24	TMFM-24	TFMM-24	TFFF-24	4820-24

Hypress
BSP
Adjustable
Adaptors

THREAD	Male Male 90° Adjustable	Male 'T' Lateral Adjustment	Male 'T' Central Adjustment
1/8" BSP	3900-02-02	3600-02-02	3605-02-02
1/4" BSP	3900-04-04	3600-04-04	3605-04-04
3/8" BSP	3900-06-06	3600-06-06	3605-06-06
1/2" BSP	3900-08-08	3600-08-08	3605-08-08
3/4" BSP	3900-12-12	3600-12-12	3605-12-12
1" BSP	3900-16-16	3600-16-16	3605-16-16
1 1/4" BSP	3900-20-20	3600-20-20	3605-20-20
1 1/2" BSP	3900-24-24	3600-24-24	3605-24-24



BSP Rotating Adaptors

For mounting between flexible hoses and fixed components to compensate for hose rotation.

Note: Not suitable for continuous rotation.



MALE THREAD	FEMALE THREAD	MAX FLOW	MAX ROTATION PRESSURE	MAX PRESSURE	MAX ROTATION SPEED	Male Female Straight Swivel Joint	Male Female 90° Swivel Joint
1/4" BSP	1/4" BSP	25 lpm	200 bar	400 bar	212 rpm	9000-04	9100-04
3/8" BSP	3/8" BSP	35 lpm	200 bar	400 bar	173 rpm	9000-06	9100-06
1/2" BSP	1/2" BSP	60 lpm	150 bar	300 bar	160 rpm	9000-08	9100-08
3/4" BSP	3/4" BSP	100 lpm	150 bar	300 bar	120 rpm	9000-12	9100-12
1" BSP	1" BSP	180 lpm	100 bar	300 bar	100 rpm	9000-16	9100-16
1 1/4" BSP	1 1/4" BSP	200 lpm	100 bar	300 bar	86 rpm	9000-20	9100-20
1 1/2" BSP	1 1/2" BSP	250 lpm	80 bar	300 bar	73 rpm	9000-24	9100-24

HyPress Test Point Adaptor



DESCRIPTION	PART NUMBER
1/4" x 1/8" Test point adaptor	626-04-04TP
3/8" x 1/8" Test point adaptor	626-06-06TP
1/2" x 1/8" Test point adaptor	626-08-08TP
3/4" x 1/8" Test point adaptor	626-12-12TP
1" x 1/4" Test point adaptor	626-16-16TP



BSP Male to BSPT Tapered Male Adaptors



THREAD	THREAD	BSP Male BSPT Male
1/8" BSP	1/8" BSPT	1865-02-02
1/4" BSP	1/4" BSPT	1865-04-04
1/4" BSP	3/8" BSPT	1865-04-06
3/8" BSP	1/4" BSPT	1865-06-04
3/8" BSP	3/8" BSPT	1865-06-06
1/2" BSP	1/2" BSPT	1865-08-08
1/2" BSP	3/4" BSPT	1865-08-12
1/2" BSP	1" BSPT	1865-08-16
5/8" BSP	5/8" BSPT	1865-10-10
3/4" BSP	3/4" BSPT	1865-12-12
3/4" BSP	1 1/4" BSPT	1865-12-20
1" BSP	1" BSPT	1865-16-16
1" BSP	1 1/4" BSPT	1865-16-20
1 1/4" BSP	1 1/4" BSPT	1865-20-20
1 1/2" BSP	1 1/2" BSPT	1865-24-24
2" BSP	2" BSPT	1865-32-32

BSP Plastic Plugs & Caps



THREAD	Threaded Plug	Threaded Cap
1/4" BSP	04BPT	-
3/8" BSP	06BPT	-
1/2" BSP	-	08BCT



BSP Washers



SIZE	Bonded Seal	Copper Washer
1/8" BSP	DW02	-
1/4" BSP	DW04	CW4
3/8" BSP	DW06	CW6
1/2" BSP	DW08	CW8
5/8" BSP	DW10	-
3/4" BSP	DW12	-
1" BSP	DW16	-
1 1/4" BSP	DW20	-
1 1/2" BSP	DW24	-
2" BSP	DW32	-



BSP Plugs & Caps



THREAD	Blanking Plug	Blanking Cap
1/8" BSP	02BBP	02BBC
1/4" BSP	04BBP	04BBC
3/8" BSP	06BBP	06BBC
1/2" BSP	08BBP	08BBC
5/8" BSP	10BBP	10BBC
3/4" BSP	12BBP	12BBC
1" BSP	16BBP	16BBC
1 1/4" BSP	20BBP	20BBC
1 1/2" BSP	24BBP	24BBC
2" BSP	32BBP	32BBC

Hypress
BSP to JIC
Adaptors



BSP THREAD	JIC THREAD	BSP Male JIC Male	BSP Male JIC Male 90° Blocked	Adjustable BSP Male JIC Male 45°	BSP Male JIC Female	JIC Male BSP Female	BSP Female JIC Female
1/8" BSP	7/16" JIC	634-02-04	-	5235-02-04	-	624-04-02	-
1/4" BSP	7/16" JIC	634-04-04	6349-04-04B	5235-04-04	627-04-04	624-04-04	614-04-04
1/4" BSP	1/2" JIC	634-04-05	6349-04-05B	5235-04-05	627-04-05	-	614-04-05
1/4" BSP	9/16" JIC	634-04-06	6349-04-06B	5235-04-06	627-04-06	624-06-04	614-04-06
1/4" BSP	3/4" JIC	634-04-08	-	5235-04-08	627-04-08	-	-
1/4" BSP	7/8" JIC	634-04-10	-	-	-	-	-
3/8" BSP	7/16" JIC	634-06-04	-	5235-06-04	627-06-04	624-04-06	614-06-04
3/8" BSP	1/2" JIC	634-06-05	-	5235-06-05	-	-	-
3/8" BSP	9/16" JIC	634-06-06	6349-06-06B	5235-06-06	627-06-06	624-06-06	614-06-06
3/8" BSP	3/4" JIC	634-06-08	-	5235-06-08	627-06-08	624-08-06	614-06-08
3/8" BSP	7/8" JIC	634-06-10	-	5235-06-10	627-06-10	624-10-06	614-06-10
1/2" BSP	7/16" JIC	634-08-04	-	-	627-08-04	624-04-08	-
1/2" BSP	9/16" JIC	634-08-06	-	5235-08-06	627-08-06	624-06-08	614-08-06
1/2" BSP	3/4" JIC	634-08-08	6349-08-08B	5235-08-08	627-08-08	624-08-08	614-08-08
1/2" BSP	7/8" JIC	634-08-10	6349-08-10B	5235-08-10	627-08-10	624-10-08	614-08-10
1/2" BSP	1 1/16" JIC	634-08-12	-	5235-08-12	627-08-12	-	614-08-12
5/8" BSP	3/4" JIC	634-10-08	-	-	-	-	-
5/8" BSP	7/8" JIC	634-10-10	-	-	627-10-10	-	614-10-10
5/8" BSP	1 1/16" JIC	634-10-12	-	-	-	-	-
3/4" BSP	3/4" JIC	634-12-08	-	5235-12-08	-	-	614-12-08
3/4" BSP	7/8" JIC	634-12-10	-	5235-12-10	627-12-10	624-10-12	-
3/4" BSP	1 1/16" JIC	634-12-12	6349-12-12B	5235-12-12	627-12-12	624-12-12	614-12-12
3/4" BSP	1 5/16" JIC	634-12-16	-	5235-12-16	627-12-16	-	-
1" BSP	1 1/16" JIC	634-16-12	-	5235-16-12	627-16-12	624-12-16	-
1" BSP	1 5/16" JIC	634-16-16	6349-16-16B	5235-16-16	627-16-16	-	-
1" BSP	1 5/8" JIC	634-16-20	-	5235-16-20	-	624-16-16	614-16-16
1 1/4" BSP	1 5/16" JIC	634-20-16	-	5235-20-16	-	-	-
1 1/4" BSP	1 5/8" JIC	634-20-20	-	5235-20-20	627-20-20	-	-
1 1/4" BSP	1 7/8" JIC	634-20-24	-	-	-	-	-
1 1/2" BSP	1 5/8" JIC	634-24-20	-	-	-	-	-
1 1/2" BSP	1 7/8" JIC	634-24-24	-	5235-24-24	627-24-24	-	-

Hypress
BSP to UNF
Adaptors



BSP THREAD	UNF THREAD	BSP Male UNF Male
3/8"	9/16"	3520-06-06
1/2"	3/4"	3520-08-08
1/2"	7/8"	3520-10-08
3/4"	7/8"	3520-10-12
1/2"	1 1/16"	3520-12-08NI *
3/4"	1 1/16"	3520-12-12NI *
3/4"	1 5/16"	3520-16-12
1"	1 5/16"	3520-16-16

*Nickle Plated

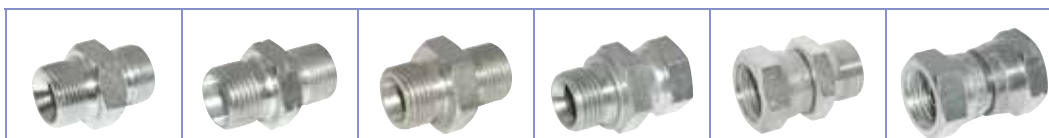
Hypress
BSP to NPTF
Adaptors



BSP THREAD	NPTF THREAD	BSP Male NPTF Female
1/4" BSP	1/8" NPTF	2000-04-02NPTF
1/4" BSP	1/4" NPTF	2000-04-04NPTF



BSP to Metric Adaptors



THREAD	THREAD	BSP Male METRIC Male 60° Cone	BSP Male METRIC Male 24° Cone Light	BSP Male METRIC Male 24° Cone Heavy	BSP Male METRIC Female 60° Cone	BSP Female METRIC Male 60° Cone	BSP Female METRIC Female 60° Cone
1/8" BSP	M10x1	630-02-10	-	-	-	-	-
1/4" BSP	M10x1	630-04-10	-	-	-	-	-
1/4" BSP	M12x1.5	630-04-12	-	-	633-04-12	631-12-04	610-04-12
1/4" BSP	M14x1.5	630-04-14	630-04-M8L	630-04-M6S	633-04-14	631-14-04	610-04-14
1/4" BSP	M16x1.5	630-04-16	630-04-M10L	630-04-M8S	633-04-16	631-16-04	-
1/4" BSP	M18x1.5	630-04-18	-	-	633-04-18	-	-
1/4" BSP	M22x1.5	630-04-22	-	-	-	-	-
3/8" BSP	M12x1.5	630-06-12	-	-	-	-	610-06-12
3/8" BSP	M14x1.5	630-06-14	-	-	633-06-14	631-14-06	610-06-14
3/8" BSP	M16x1.5	630-06-16	-	-	633-06-16	631-16-06	-
3/8" BSP	M18x1.5	630-06-18	630-06-M12L	630-06-M10S	633-06-18	631-18-06	610-06-18
3/8" BSP	M20x1.5	630-06-20	-	630-06-M12S	633-06-20	631-20-06	610-06-20
3/8" BSP	M22x1.5	630-06-22	-	-	633-06-22	631-22-06	610-06-22
1/2" BSP	M14x1.5	630-08-14	-	-	-	-	-
1/2" BSP	M16x1.5	630-08-16	-	-	633-08-16	-	610-08-16
1/2" BSP	M18x1.5	630-08-18	-	-	633-08-18	631-18-08	610-08-18
1/2" BSP	M20x1.5	630-08-20	-	-	633-08-20	631-20-08	610-08-20
1/2" BSP	M22x1.5	630-08-22	630-08-M15L	630-08-M14S	633-08-22	631-22-08	610-08-22
1/2" BSP	M24x1.5	630-08-24	-	630-08-M16S	633-08-24	-	-
1/2" BSP	M26x1.5	630-08-26	630-08-M18L	-	-	-	-
5/8" BSP	M18x1.5	630-10-18	-	-	-	-	-
5/8" BSP	M22x1.5	630-10-22	-	-	-	-	-
3/4" BSP	M18x1.5	630-12-18	-	-	-	-	-
3/4" BSP	M20x1.5	630-12-20	-	-	-	-	-
3/4" BSP	M22x1.5	630-12-22	-	-	633-12-22	-	-
3/4" BSP	M26x1.5	630-12-26	-	-	-	-	-
3/4" BSP	M27x2.0	630-12-27-2	-	-	-	-	-
3/4" BSP	M30x2.0	630-12-30	630-12-M22L	630-12-M20S	-	-	-
1" BSP	M22x1.5	630-16-22	-	-	-	-	-
1" BSP	M26x1.5	630-16-26	-	-	-	-	-
1" BSP	M38x1.5	630-16-38	-	-	-	-	-
1 1/4" BSP	M42x2.0	-	-	630-20-M30S	-	-	-
1 1/4" BSP	M45x2.0	-	630-20-M35L	-	-	-	-
1 1/2" BSP	M52x2.0	-	630-24-M42L	630-24-M38S	-	-	-



BSP Male to ORFS Male Adaptors



THREAD	THREAD	BSP Male ORFS Male	O' Ring to suit
1/4" BSP	9/16" ORFS	6810-04-06	178766OR
1/4" BSP	11/16" ORFS	6810-04-09	178925OR
3/8" BSP	9/16" ORFS	6810-06-06	178766OR
3/8" BSP	11/16" ORFS	6810-06-09	178925OR
3/8" BSP	13/16" ORFS	6810-06-11	1781242OR
1/2" BSP	11/16" ORFS	6810-08-09	178925OR
1/2" BSP	13/16" ORFS	6810-08-11	1781242OR
1/2" BSP	1" ORFS	6810-08-13	1781560OR
3/4" BSP	1 3/16" ORFS	6810-12-14	1781870OR
3/4" BSP	1 7/16" ORFS	6810-12-15	1782353OR
1" BSP	1 7/16" ORFS	6810-16-15	1782353OR
1 1/4" BSP	1 11/16" ORFS	6810-20-21	1782987OR







BSP Male to ORFS Female Swivel Adaptors







MALE THREAD	FEMALE THREAD	BSP Male ORFS Female
1/4" BSP	9/16" ORFS	6036-04-06
1/4" BSP	11/16" ORFS	6036-04-09
3/8" BSP	9/16" ORFS	6036-06-06
3/8" BSP	11/16" ORFS	6036-06-09
3/8" BSP	13/16" ORFS	6036-06-11
1/2" BSP	11/16" ORFS	6036-08-09
1/2" BSP	13/16" ORFS	6036-08-11
1/2" BSP	1" ORFS	6036-08-13
3/4" BSP	1 3/16" ORFS	6036-12-14
3/4" BSP	1 7/16" ORFS	6036-12-15
1" BSP	1 7/16" ORFS	6036-16-15
1 1/4" BSP	1 11/16" ORFS	6036-20-21

Hypress
JIC
Adaptors

					
THREAD	THREAD	Male Male	Male Male Bulkhead	Male Female	Female Female
7/16" JIC	7/16" JIC	638-04-04	5110-04	628-04-04	618-04-04
7/16" JIC	1/2" JIC	637-04-05	-	-	-
7/16" JIC	9/16" JIC	637-04-06	-	629-04-06	618-04-06
7/16" JIC	3/4" JIC	637-04-08	-	-	618-04-08
7/16" JIC	7/8" JIC	637-04-10	-	-	-
1/2" JIC	1/2" JIC	638-05-05	5110-05	628-05-05	618-05-05
1/2" JIC	9/16" JIC	637-05-06	-	629-05-06	618-05-06
9/16" JIC	7/16" JIC	-	-	629-06-04	-
9/16" JIC	9/16" JIC	638-06-06	5110-06	628-06-06	618-06-06
9/16" JIC	3/4" JIC	637-06-08	-	629-06-08	618-06-08
9/16" JIC	7/8" JIC	637-06-10	-	-	618-06-10
3/4" JIC	3/4" JIC	638-08-08	5110-08	628-08-08	618-08-08
3/4" JIC	7/8" JIC	637-08-10	-	629-08-10	618-08-10
3/4" JIC	1 1/16" JIC	637-08-12	-	629-08-12	618-08-12
7/8" JIC	3/4" JIC	-	-	629-10-08	-
7/8" JIC	7/8" JIC	638-10-10	5110-10	628-10-10	618-10-10
7/8" JIC	1 1/16" JIC	637-10-12	-	629-10-12	618-10-12
7/8" JIC	1 5/16" JIC	637-10-16	-	-	-
1 1/16" JIC	3/4" JIC	-	-	629-12-08	-
1 1/16" JIC	7/8" JIC	-	-	629-12-10	-
1 1/16" JIC	1 1/16" JIC	638-12-12	5110-12	628-12-12	-
1 1/16" JIC	1 3/16" JIC	637-12-14	-	-	-
1 1/16" JIC	1 5/16" JIC	637-12-16	-	-	618-12-16
1 1/16" JIC	1 7/8" JIC	637-12-20	-	-	-
1 3/16" JIC	1 3/16" JIC	638-14-14	-	-	-
1 3/16" JIC	1 5/16" JIC	637-14-16	-	-	-
1 5/16" JIC	1 5/16" JIC	638-16-16	5110-16	628-16-16	618-16-16
1 5/16" JIC	1 5/8" JIC	637-16-20	-	-	-
1 5/8" JIC	1 5/8" JIC	638-20-20	5110-20	628-20-20	618-20-20
1 5/8" JIC	1 7/8" JIC	637-20-24	-	-	618-20-24
1 7/8" JIC	1 7/8" JIC	638-24-24	5110-24	628-24-24	618-24-24
2 1/2" JIC	2 1/2" JIC	638-32-32	-	-	618-32-32

Hypress
JIC
90° Adaptors

					
THREAD	THREAD	Male Male 90° Blocked	Male Male 90° Bulkhead	Male Female 90° Blocked	Female Female 90° Blocked
7/16" JIC	7/16" JIC	6389-04-04B	5130-04	6289-04-04B	6189-04-04B
1/2" JIC	1/2" JIC	6389-05-05B	5130-05	6289-05-05B	6189-05-05B
9/16" JIC	9/16" JIC	6389-06-06B	5130-06	6289-06-06B	6189-06-06B
3/4" JIC	3/4" JIC	6389-08-08B	5130-08	6289-08-08B	6189-08-08B
7/8" JIC	7/8" JIC	6389-10-10B	5130-10	6289-10-10B	6189-10-10B
1 1/16" JIC	1 1/16" JIC	6389-12-12B	5130-12	6289-12-12B	6189-12-12B
1 5/16" JIC	1 5/16" JIC	6389-16-16B	5130-16	6289-16-16B	6189-16-16B



JIC Crosses & 'T' Pieces

THREAD	Male Cross	Male 'T'	Male Female Male 'T'	Female Male Male 'T'	Female 'T'
7/16" JIC	5900-04	TJMMM-04	TJMFM-04	TJFMM-04	TJFFF-04
1/2" JIC	5900-05	TJMMM-05	TJMFM-05	TJFMM-05	TJFFF-05
9/16" JIC	5900-06	TJMMM-06	TJMFM-06	TJFMM-06	TJFFF-06
3/4" JIC	5900-08	TJMMM-08	TJMFM-08	TJFMM-08	TJFFF-08
7/8" JIC	5900-10	TJMMM-10	TJMFM-10	TJFMM-10	TJFFF-10
1 1/16" JIC	5900-12	TJMMM-12	TJMFM-12	TJFMM-12	TJFFF-12
1 5/16" JIC	5900-16	TJMMM-16	TJMFM-16	TJFMM-16	TJFFF-16



JIC to UNF Adaptors

JIC THREAD	UNF THREAD	JIC Male UNF Male	JIC Male UNF Male 90° Adjustable	JIC Male UNF Male 45° Adjustable	Male 'T' Lateral Adjustment	Male 'T' Central Adjustment
7/16" JIC	7/16" UNF	1907-04-04	5190-04	5200-04-04	5210-04	5220-04
7/16" JIC	1/2" UNF	1907-04-05	-	-	-	-
7/16" JIC	9/16" UNF	1907-04-06	-	-	-	-
1/2" JIC	1/2" UNF	1907-05-05	5190-05	5200-05-05	5210-05	5220-05
1/2" JIC	3/4" UNF	1907-05-08	-	-	-	-
9/16" JIC	9/16" UNF	1907-06-06	5190-06	5200-06-06	5210-06	5220-06
9/16" JIC	3/4" UNF	1907-06-08	-	-	-	-
3/4" JIC	3/4" UNF	1907-08-08	5190-08	5200-08-08	5210-08	5220-08
3/4" JIC	7/8" UNF	1907-08-10	-	-	-	-
7/8" JIC	3/4" UNF	1907-10-08	-	-	-	-
7/8" JIC	7/8" UNF	1907-10-10	5190-10	5200-10-10	5210-10	5220-10
7/8" JIC	1 1/16" UNF	1907-10-12	-	-	-	-
1 1/16" JIC	7/8" UNF	1907-12-10	-	-	-	-
1 1/16" JIC	1 1/16" UNF	1907-12-12	5190-12	5200-12-12	5210-12	5220-12
1 5/16" JIC	1 5/16" UNF	1907-16-16	5190-16	5200-16-16	5210-16	5220-16
1 5/8" JIC	1 5/8" UNF	1907-20-20	5190-20	5200-20-20	5210-20	5220-20



JIC Plugs Caps & Washers

THREAD	Blanking Plug	Blanking Cap	Bonded Seal
7/16" JIC	04JBP	04JBC	DWJ04
1/2" JIC	05JBP	05JBC	DWJ05
9/16" JIC	06JBP	06JBC	DWJ06
3/4" JIC	08JBP	08JBC	DWJ08
7/8" JIC	10JBP	10JBC	DWJ10
1 1/16" JIC	12JBP	12JBC	DWJ12
1 5/16" JIC	16JBP	16JBC	DWJ16
1 5/8" JIC	20JBP	20JBC	DWJ20
1 7/8" JIC	24JBP	24JBC	DWJ24
2 1/2" JIC	32JBP	32JBC	DWJ32



UNF Plugs

THREAD	Blanking Plug
7/16" UNF	04UNBP
1/2" UNF	05UNBP
9/16" UNF	06UNBP
3/4" UNF	08UNBP
7/8" UNF	10UNBP
1 1/16" UNF	12UNBP
1 5/16" UNF	16UNBP
1 5/8" UNF	20UNBP
1 7/8" UNF	24UNBP
2 1/2" UNF	32UNBP



Metric - Metric Adaptors



THREAD	THREAD	Male Male 60° Cone	Female Female 60° Cone	Male Male 90° Adjustable
M10x1.5	M10x1.5	632-10-10	-	-
M10x1.5	M12x1.5	639-10-12	-	-
M10x1.5	M16x1.5	639-10-16	-	-
M12x1.5	M12x1.5	632-12-12	-	-
M14x1.5	M12x1.5	639-14-12	-	6399-12-M8LADJ
M14x1.5	M14x1.5	632-14-14	612-14-14	-
M14x1.5	M18x1.5	639-14-18	-	-
M14x1.5	M22x1.5	639-14-22	-	-
M16x1.5	M12x1.5	639-16-12	-	-
M16x1.5	M14x1.5	639-16-14	-	-
M16x1.5	M16x1.5	632-16-16	612-16-16	-
M16x1.5	M18x1.5	-	619-16-18	6399-16-M12LADJ
M16x1.5	M20x1.5	639-16-20	-	-
M16x1.5	M22x1.5	639-16-22	-	-
M16x1.5	M26x1.5	639-16-26	-	-
M18x1.5	M14x1.5	639-18-14	-	-
M18x1.5	M16x1.5	639-18-16	-	-
M18x1.5	M18x1.5	632-18-18	612-18-18	-
M18x1.5	M20x1.5	639-18-20	-	-
M18x1.5	M22x1.5	639-18-22	-	6399-18-M15LADJ
M18x1.5	M26x1.5	639-18-26	-	-
M20x1.5	M20x1.5	632-20-20	612-20-20	-
M20x1.5	M22x1.5	639-20-22	-	-
M22x1.5	M14x1.5	639-22-14	-	-
M22x1.5	M18x1.5	639-22-18	-	-
M22x1.5	M22x1.5	632-22-22	612-22-22	-
M22x1.5	M24x1.5	639-22-24	-	-
M24x1.5	M24x1.5	632-24-24	-	-
M26x1.5	M22x1.5	639-26-22	-	-
M26x1.5	M26x1.5	632-26-26	-	-
M30x1.5	M30x1.5	632-30-30	-	-








METRIC Plugs, Caps & Washers

• 60° Cone






THREAD	Blanking Plug	Blanking Cap	Bonded Seal
M10x1.5	10MBP	10MBC	DWM10
M12x1.5	12MBP	12MBC	DWM12
M14x1.5	14MBP	14MBC	DWM14
M16x1.5	16MBP	16MBC	DWM16
M18x1.5	18MBP	18MBC	DWM18
M20x1.5	20MBP	20MBC	DWM20
M22x1.5	22MBP	22MBC	DWM22
M24x1.5	24MBP	24MBC	DWM24
M26x1.5	26MBP	26MBC	DWM26

Hypress
ORFS
Adaptors

					
THREAD ORFS	ORFS Male ORFS Male	ORFS Male ORFS Male 90° Elbow	ORFS Male ORFS Female	ORFS Male ORFS Female 90° Elbow	ORFS Male ORFS Female 45° Elbow
9/16" ORFS	6000-06	6300-06	6055-06	6205-06	6255-06
11/16" ORFS	6000-09	6300-09	6055-09	6205-09	6255-09
13/16" ORFS	6000-11	6300-11	6055-11	6205-11	6255-11
1" ORFS	6000-13	6300-13	6055-13	6205-13	6255-13
1 3/16" ORFS	6000-14	6300-14	6055-14	6205-14	6255-14
1 7/16" ORFS	6000-15	6300-15	6055-15	6205-15	6255-15
1 11/16" ORFS	6000-21	6300-21	6055-21	6205-21	6255-21
2" ORFS	6000-32	6300-32	6055-32	6205-32	6255-32

Hypress
ORFS
Tee
Pieces

			
THREAD	ORFS Male ORFS Male ORFS Male	ORFS Male ORFS Female ORFS Male	ORFS Female ORFS Male ORFS Male
9/16" ORFS	TOMMM-06	TOMFM-06	TOFMM-06
11/16" ORFS	TOMMM-09	TOMFM-09	TOFMM-09
13/16" ORFS	TOMMM-11	TOMFM-11	TOFMM-11
1" ORFS	TOMMM-13	TOMFM-13	TOFMM-13
1 3/16" ORFS	TOMMM-14	TOMFM-14	TOFMM-14
1 7/16" ORFS	TOMMM-15	TOMFM-15	TOFMM-15

O' Rings to suit ORFS Male



THREAD SIZE	O' RING SIZE	PART NUMBER
9/16" ORFS	7.66 x 1.78mm	178766OR
11/16" ORFS	9.25 x 1.78mm	178925OR
13/16" ORFS	12.42 x 1.78mm	1781242OR
1" ORFS	15.60 x 1.78mm	1781560OR
1 3/16" ORFS	18.70 x 1.78mm	1781870OR
1 7/16" ORFS	23.53 x 1.78mm	1782353OR

Steel Hydraulic Pipe (6 metre lengths)

White Passivated & Black Phosphatized

Seamless cold-drawn precision pipe manufactured according to DIN 2445.
Surface tolerance and design manufactured according to DIN 2391

Bottom Yield Limit: 235 N/mm²

Temperature: 120° C

Material: St. 37.4 NBK design according to DIN 1630, white passivated



OD	WALL THICKNESS	WORKING PRESSURE	BURSTING PRESSURE	WHITE PASSIVATED	BLACK
4mm	1.0mm	629 bar	1258 bar	HL0410V	HL0410
6mm	1.0mm	377 bar	754 bar	HL0610V	-
6mm	1.5mm	565 bar	1130 bar	HL0615V	HL0615
8mm	1.0mm	294 bar	588 bar	HL0810V	HL0810
8mm	1.5mm	441 bar	882 bar	HL0815V	HL0815
10mm	1.0mm	249 bar	498 bar	HL1010V	HL1010
10mm	1.5mm	374 bar	748 bar	HL1015V	HL1015
12mm	1.5mm	311 bar	622 bar	HL1215V	HL1215
12mm	2.0mm	415 bar	850 bar	HL1220V	HL1220
14mm	2.0mm	356 bar	712 bar	HL1420V	HL1420
15mm	1.5mm	249 bar	498 bar	HL1515V	HL1515
15mm	2.0mm	332 bar	664 bar	HL1520V	HL1520
16mm	2.0mm	311 bar	622 bar	HL1620V	HL1620
18mm	2.0mm	277 bar	554 bar	HL1820V	HL1820
20mm	2.0mm	249 bar	498 bar	HL2020V	HL2020
20mm	3.0mm	374 bar	748 bar	HL2030V	HL2030
22mm	2.0mm	226 bar	452 bar	HL2220V	HL2220
25mm	2.0mm	199 bar	398 bar	HL2520V	HL2520
25mm	3.0mm	293 bar	586 bar	HL2530V	HL2530
28mm	2.5mm	222 bar	444 bar	HL2825V	HL2825
28mm	3.0mm	303 bar	606 bar	HL2830V	HL2830
30mm	3.0mm	249 bar	498 bar	HL3030V	HL3030
35mm	3.0mm	213 bar	426 bar	HL3530V	HL3530
38mm	4.0mm	298 bar	596 bar	HL3840V	HL3840
42mm	3.0mm	178 bar	356 bar	HL4230V	HL4230
42mm	4.0mm	269 bar	538 bar	HL4240V	HL4240

Note: Available in stainless steel just add SS to the end of part number e.g. HL1515SS.w



Pipe Bending Tool

Design: For bending pipes. The rollers have an optimum radius. Maximum 180°
Material: Bending rollers: Aluminium alloy
Technical Information: Place the pipe bending machine in a bench vice for optimal stability

DESCRIPTION	PIPE Ø	PART NUMBER
Pipe bending tool with rollers 6 - 12mm	6 - 12mm	033012
Pipe bending tool with rollers 10 - 18mm	10 - 18mm	033020

Thread Indication

LL - Extra Light Series

TYPE	PIPE Ø	THREAD
4LL	4mm	M8x1
6LL	6mm	M10x1
8LL	8mm	M12x1

L - Light Series

TYPE	PIPE Ø	THREAD
6L	6mm	M12x1.5
8L	8mm	M14x1.5
10L	10mm	M16x1.5
12L	12mm	M18x1.5
15L	15mm	M22x1.5
18L	18mm	M26x1.5
22L	22mm	M30x2
28L	28mm	M36x2
35L	35mm	M45x2
42L	42mm	M52x2

S - Heavy Series

TYPE	PIPE Ø	THREAD
6S	6mm	M14x1.5
8S	8mm	M16x1.5
10S	10mm	M18x1.5
12S	12mm	M20x1.5
14S	14mm	M22x1.5
16S	16mm	M24x1.5
20S	20mm	M30x2
25S	25mm	M36x2
30S	30mm	M42x2
38S	38mm	M52x2



**Equal Straight Coupling - GV
Light Series**

PIPE 1		PIPE 2		PART NUMBER
Ø	THREAD	Ø	THREAD	
4mm	M8x1	4mm	M8x1	GV4LL*
6mm	M10x1	6mm	M10x1	GV6LL*
6mm	M12x1.5	6mm	M12x1.5	GV6L
8mm	M12x1	8mm	M12x1	GV8LL*
8mm	M14x1.5	8mm	M14x1.5	GV8L
10mm	M16x1.5	10mm	M16x1.5	GV10L
12mm	M18x1.5	12mm	M18x1.5	GV12L
15mm	M22x1.5	15mm	M22x1.5	GV15L
18mm	M26x1.5	18mm	M26x1.5	GV18L
22mm	M30x2	22mm	M30x2	GV22L
28mm	M36x2	28mm	M36x2	GV28L
35mm	M45x2	35mm	M45x2	GV35L
42mm	M52x2	42mm	M52x2	GV42L

* LL = Extra light series.

Heavy Series

PIPE 1		PIPE 2		PART NUMBER
Ø	THREAD	Ø	THREAD	
6mm	M14x1.5	6mm	M14x1.5	GV6S
8mm	M16x1.5	8mm	M16x1.5	GV8S
10mm	M18x1.5	10mm	M18x1.5	GV10S
12mm	M20x1.5	12mm	M20x1.5	GV12S
14mm	M22x1.5	14mm	M22x1.5	GV14S
16mm	M24x1.5	16mm	M24x1.5	GV16S
20mm	M30x2	20mm	M30x2	GV20S
25mm	M36x2	25mm	M36x2	GV25S
30mm	M42x2	30mm	M42x2	GV30S
38mm	M52x2	38mm	M52x2	GV38S



**Unequal Straight Coupling - GV
Light Series**

PIPE 1		PIPE 2		PART NUMBER
Ø	THREAD	Ø	THREAD	
6mm	M10x1	4mm	M8x1	GV64LL*
8mm	M12x1	4mm	M8x1	GV84LL*
8mm	M14x1.5	6mm	M12x1.5	GV86L
10mm	M16x1.5	6mm	M12x1.5	GV106L
10mm	M16x1.5	8mm	M14x1.5	GV108L
12mm	M18x1.5	6mm	M12x1.5	GV126L
12mm	M18x1.5	8mm	M14x1.5	GV128L
12mm	M18x1.5	10mm	M16x1.5	GV1210L
15mm	M22x1.5	10mm	M16x1.5	GV1510L
15mm	M22x1.5	12mm	M18x1.5	GV1512L
18mm	M26x1.5	10mm	M16x1.5	GV1810L
18mm	M26x1.5	12mm	M18x1.5	GV1812L
18mm	M26x1.5	15mm	M22x1.5	GV1815L
22mm	M30x2	15mm	M22x1.5	GV2215L
22mm	M30x2	18mm	M26x1.5	GV2218L
28mm	M36x2	22mm	M30x2	GV2822L

* LL = Extra light series.

Heavy Series

PIPE 1		PIPE 2		PART NUMBER
Ø	THREAD	Ø	THREAD	
12mm	M20x1.5	10mm	M18x1.5	GV1210S
14mm	M22x1.5	12mm	M20x1.5	GV1412S
16mm	M24x1.5	12mm	M20x1.5	GV1612S
20mm	M30x2	16mm	M24x1.5	GV2016S
25mm	M36x2	16mm	M24x1.5	GV2516S
25mm	M36x2	20mm	M30x2	GV2520S



Straight Male Stud Coupling GEV-BSP (Not Coned)

Light Series

MALE THREAD	PIPE		PART NUMBER
	Ø	THREAD	
1/8"	4mm	M8x1	GEV4LLR18*
1/8"	6mm	M10x1	GEV6LLR18*
1/8"	6mm	M12x1.5	GEV6LR18
1/4"	6mm	M12x1.5	GEV6LR14
3/8"	6mm	M12x1.5	GEV6LR38
1/8"	8mm	M12x1	GEV8LLR18*
1/8"	8mm	M14x1.5	GEV8LR18
1/4"	8mm	M14x1.5	GEV8LR14
3/8"	8mm	M14x1.5	GEV8LR38
1/2"	8mm	M14x1.5	GEV8LR12
1/8"	10mm	M16x1.5	GEV10LR18
1/4"	10mm	M16x1.5	GEV10LR14
3/8"	10mm	M16x1.5	GEV10LR38
1/2"	10mm	M16x1.5	GEV10LR12
1/4"	12mm	M18x1.5	GEV12LR14
3/8"	12mm	M18x1.5	GEV12LR38
1/2"	12mm	M18x1.5	GEV12LR12
3/4"	12mm	M18x1.5	GEV12LR34
1/4"	15mm	M22x1.5	GEV15LR14
3/8"	15mm	M22x1.5	GEV15LR38
1/2"	15mm	M22x1.5	GEV15LR12
3/4"	15mm	M22x1.5	GEV15LR34
3/8"	18mm	M26x1.5	GEV18LR38
1/2"	18mm	M26x1.5	GEV18LR12
3/4"	18mm	M26x1.5	GEV18LR34
1/2"	22mm	M30x2	GEV22LR12
3/4"	22mm	M30x2	GEV22LR34
1"	22mm	M30x2	GEV22LR1
3/4"	28mm	M36x2	GEV28LR34
1"	28mm	M36x2	GEV28LR1
1"	35mm	M45x2	GEV35LR1
1 1/4"	35mm	M45x2	GEV35LR114
1 1/4"	42mm	M52x2	GEV42LR114

* LL = Extra light series.

Heavy Series

MALE THREAD	PIPE		PART NUMBER
	Ø	THREAD	
1/4"	6mm	M14x1.5	GEV6SR14
3/8"	6mm	M14x1.5	GEV6SR38
1/2"	6mm	M14x1.5	GEV6SR12
1/4"	8mm	M16x1.5	GEV8SR14
3/8"	8mm	M16x1.5	GEV8SR38
1/2"	8mm	M16x1.5	GEV8SR12
1/4"	10mm	M18x1.5	GEV10SR14
3/8"	10mm	M18x1.5	GEV10SR38
1/2"	10mm	M18x1.5	GEV10SR12
1/4"	12mm	M20x1.5	GEV12SR14
3/8"	12mm	M20x1.5	GEV12SR38
1/2"	12mm	M20x1.5	GEV12SR12
3/4"	12mm	M20x1.5	GEV12SR34
3/8"	14mm	M22x1.5	GEV14SR38
1/2"	14mm	M22x1.5	GEV14SR12
3/8"	16mm	M24x1.5	GEV16SR38
1/2"	16mm	M24x1.5	GEV16SR12
3/4"	16mm	M24x1.5	GEV16SR34
1/2"	20mm	M30x2	GEV20SR12
3/4"	20mm	M30x2	GEV20SR34
1"	20mm	M30x2	GEV20SR1
3/4"	25mm	M36x2	GEV25SR34
1"	25mm	M36x2	GEV25SR1
1 1/4"	25mm	M36x2	GEV25SR114
3/4"	30mm	M42x2	GEV30SR34
1"	30mm	M42x2	GEV30SR1
1 1/4"	30mm	M42x2	GEV30SR114
1"	38mm	M52x2	GEV38SR1
1 1/4"	38mm	M52x2	GEV38SR114
1 1/2"	38mm	M52x2	GEV38SR112
1 1/2"	42mm	-	GEV42SR112



Reducing Coupling with Female Swivel

Light Series

FEMALE THREAD	PIPE		PART NUMBER
	Ø	THREAD	
M12x1	6mm	M12x1.5	REDVD86L
M16x1.5	6mm	M12x1.5	REDVD106L
M16x1.5	8mm	M14x1.5	REDVD108L
M18x1.5	6mm	M12x1.5	REDVD126L
M18x1.5	8mm	M14x1.5	REDVD128L
M18x1.5	10mm	M16x1.5	REDVD1210L
M22x1.5	6mm	M12x1.5	REDVD156L
M22x1.5	8mm	M14x1.5	REDVD158L
M22x1.5	10mm	M16x1.5	REDVD1510L
M22x1.5	12mm	M18x1.5	REDVD1512L
M26x1.5	6mm	M12x1.5	REDVD186L
M26x1.5	8mm	M14x1.5	REDVD188L
M26x1.5	10mm	M16x1.5	REDVD1810L
M26x1.5	12mm	M18x1.5	REDVD1812L
M26x1.5	15mm	M22x1.5	REDVD1815L
M30x2	6mm	M12x1.5	REDVD226L
M30x2	8mm	M14x1.5	REDVD228L
M30x2	10mm	M16x1.5	REDVD2210L
M30x2	12mm	M18x1.5	REDVD2212L
M30x2	15mm	M22x1.5	REDVD2215L
M30x2	18mm	M26x1.5	REDVD2218L
M36x2	6mm	M12x1.5	REDVD286L
M36x2	8mm	M14x1.5	REDVD288L
M36x2	10mm	M16x1.5	REDVD2810L
M36x2	12mm	M18x1.5	REDVD2812L
M36x2	15mm	M22x1.5	REDVD2815L
M36x2	18mm	M26x1.5	REDVD2818L
M36x2	22mm	M30x2	REDVD2822L
M45x2	6mm	M12x1.5	REDVD356L
M45x2	8mm	M14x1.5	REDVD358L
M45x2	10mm	M16x1.5	REDVD3510L
M45x2	12mm	M18x1.5	REDVD3512L
M45x2	15mm	M22x1.5	REDVD3515L
M45x2	18mm	M26x1.5	REDVD3518L
M45x2	22mm	M30x2	REDVD3522L
M45x2	28mm	M36x2	REDVD3528L
M52x2	6mm	M12x1.5	REDVD426L
M52x2	8mm	M14x1.5	REDVD428L
M52x2	10mm	M16x1.5	REDVD4210L
M52x2	12mm	M18x1.5	REDVD4212L
M52x2	15mm	M22x1.5	REDVD4215L
M52x2	18mm	M26x1.5	REDVD4218L
M52x2	22mm	M30x2	REDVD4222L
M52x2	28mm	M36x2	REDVD4228L
M52x2	35mm	M45x2	REDVD4235L

Heavy Series

FEMALE THREAD	PIPE		PART NUMBER
	Ø	THREAD	
M16x1.5	6mm	M14x1.5	REDVD86S
M18x1.5	6mm	M14x1.5	REDVD106S
M18x1.5	8mm	M16x1.5	REDVD108S
M20x1.5	6mm	M14x1.5	REDVD126S
M20x1.5	8mm	M16x1.5	REDVD128S
M20x1.5	10mm	M18x1.5	REDVD1210S
M22x1.5	6mm	M14x1.5	REDVD146S
M22x1.5	8mm	M16x1.5	REDVD148S
M22x1.5	10mm	M18x1.5	REDVD1410S
M22x1.5	12mm	M20x1.5	REDVD1412S
M24x1.5	6mm	M14x1.5	REDVD166S
M24x1.5	8mm	M16x1.5	REDVD168S
M24x1.5	10mm	M18x1.5	REDVD1610S
M24x1.5	12mm	M20x1.5	REDVD1612S
M24x1.5	14mm	M22x1.5	REDVD1614S
M30x2	6mm	M14x1.5	REDVD206S
M30x2	8mm	M16x1.5	REDVD208S
M30x2	10mm	M18x1.5	REDVD2010S
M30x2	12mm	M20x1.5	REDVD2012S
M30x2	14mm	M22x1.5	REDVD2014S
M30x2	16mm	M24x1.5	REDVD2016S
M36x2	6mm	M14x1.5	REDVD256S
M36x2	8mm	M16x1.5	REDVD258S
M36x2	10mm	M18x1.5	REDVD2510S
M36x2	12mm	M20x1.5	REDVD2512S
M36x2	14mm	M22x1.5	REDVD2514S
M36x2	16mm	M24x1.5	REDVD2516S
M36x2	20mm	M30x2	REDVD2520S
M42x2	6mm	M14x1.5	REDVD306S
M42x2	8mm	M16x1.5	REDVD308S
M42x2	10mm	M18x1.5	REDVD3010S
M42x2	12mm	M20x1.5	REDVD3012S
M42x2	14mm	M22x1.5	REDVD3014S
M42x2	16mm	M24x1.5	REDVD3016S
M42x2	20mm	M30x2	REDVD3020S
M42x2	25mm	M36x2	REDVD3025S
M52x2	6mm	M14x1.5	REDVD386S
M52x2	8mm	M16x1.5	REDVD388S
M52x2	10mm	M18x1.5	REDVD3810S
M52x2	12mm	M20x1.5	REDVD3812S
M52x2	14mm	M22x1.5	REDVD3814S
M52x2	16mm	M24x1.5	REDVD3816S
M52x2	20mm	M30x2	REDVD3820S
M52x2	25mm	M36x2	REDVD3825S
M52x2	30mm	M42x2	REDVD3830S



Straight Female Stud Coupling GAV-BSP Light Series

FEMALE THREAD	PIPE		PART NUMBER
	Ø	THREAD	
1/8"	6mm	M12x1.5	GAV6LR18
1/4"	6mm	M12x1.5	GAV6LR14
3/8"	6mm	M12x1.5	GAV6LR38
1/4"	8mm	M14x1.5	GAV8LR14
3/8"	8mm	M14x1.5	GAV8LR38
1/2"	8mm	M14x1.5	GAV8LR12
1/4"	10mm	M16x1.5	GAV10LR14
1/2"	10mm	M16x1.5	GAV10LR12
3/8"	10mm	M16x1.5	GAV10LR38
1/4"	12mm	M18x1.5	GAV12LR14
3/8"	12mm	M18x1.5	GAV12LR38
1/2"	12mm	M18x1.5	GAV12LR12
3/8"	15mm	M22x1.5	GAV15LR38
1/2"	15mm	M22x1.5	GAV15LR12
3/4"	22mm	M30x2	GAV22LR34
1"	28mm	M36x2	GAV28LR1
1 1/4"	35mm	M45x2	GAV35LR114
1 1/2"	42mm	M52x2	GAV42LR112

Heavy Series

FEMALE THREAD	PIPE		PART NUMBER
	Ø	THREAD	
1/4"	6mm	M14x1.5	GAV6SR14
1/4"	8mm	M16x1.5	GAV8SR14
3/8"	10mm	M18x1.5	GAV10SR38
3/8"	12mm	M20x1.5	GAV12SR38
1/2"	14mm	M22x1.5	GAV14SR12
1/2"	16mm	M24x1.5	GAV16SR12
1/2"	18mm	-	GAV18SR12
3/4"	20mm	M30x2	GAV20SR34
1"	25mm	M36x2	GAV25SR1
1 1/4"	30mm	M42x2	GAV30SR114
1 1/2"	38mm	M52x2	GAV38SR112



Equal Stud Elbow - WV Light Series

PIPE 1		PIPE 2		PART NUMBER
Ø	THREAD	Ø	THREAD	
4mm	M8x1	4mm	M8x1	WV4LL*
6mm	M10x1	6mm	M10x1	WV6LL*
6mm	M12x1.5	6mm	M12x1.5	WV6L
8mm	M12x1	8mm	M12x1	WV8LL*
8mm	M14x1.5	8mm	M14x1.5	WV8L
10mm	M16x1.5	10mm	M16x1.5	WV10L
12mm	M18x1.5	12mm	M18x1.5	WV12L
15mm	M22x1.5	15mm	M22x1.5	WV15L
18mm	M26x1.5	18mm	M26x1.5	WV18L
22mm	M30x2	22mm	M30x2	WV22L
28mm	M36x2	28mm	M36x2	WV28L
35mm	M45x2	35mm	M45x2	WV35L
42mm	M52x2	42mm	M52x2	WV42L

* LL = Extra light series.

Heavy Series

PIPE 1		PIPE 2		PART NUMBER
Ø	THREAD	Ø	THREAD	
6mm	M14x1.5	6mm	M14x1.5	WV6S
8mm	M16x1.5	8mm	M16x1.5	WV8S
10mm	M18x1.5	10mm	M18x1.5	WV10S
12mm	M20x1.5	12mm	M20x1.5	WV12S
14mm	M22x1.5	14mm	M22x1.5	WV14S
16mm	M24x1.5	16mm	M24x1.5	WV16S
20mm	M30x2	20mm	M30x2	WV20S
25mm	M36x2	25mm	M36x2	WV25S
30mm	M42x2	30mm	M42x2	WV30S
38mm	M52x2	38mm	M52x2	WV38S



Adjustable Male Stud EWW-D

Light Series

PIPE		FEMALE THREAD	PART NUMBER
Ø	THREAD		
6mm	M12x1.5	M12x1.5	EWVD6L
8mm	M14x1.5	M14x1.5	EWVD8L
10mm	M16x1.5	M16x1.5	EWVD10L
12mm	M18x1.5	M18x1.5	EWVD12L
15mm	M22x1.5	M22x1.5	EWVD15L
18mm	M26x1.5	M26x1.5	EWVD18L
22mm	M30x2	M30x2	EWVD22L
28mm	M36x2	M36x2	EWVD28L
35mm	M45x2	M45x2	EWVD35L
42mm	M52x2	M52x2	EWVD42L

Heavy Series

PIPE		FEMALE THREAD	PART NUMBER
Ø	THREAD		
6mm	M14x1.5	M14x1.5	EWVD6S
8mm	M16x1.5	M16x1.5	EWVD8S
10mm	M18x1.5	M18x1.5	EWVD10S
12mm	M20x1.5	M20x1.5	EWVD12S
14mm	M22x1.5	M22x1.5	EWVD14S
16mm	M24x1.5	M24x1.5	EWVD16S
20mm	M30x2	M30x2	EWVD20S
25mm	M36x2	M36x2	EWVD25S
30mm	M42x2	M42x2	EWVD30S
38mm	M52x2	M52x2	EWVD38S



Male Stud Elbow WEV-BSP (Not Coned)

Light Series

PIPE		MALE THREAD	PART NUMBER
Ø	THREAD		
4mm	M8x1	1/8"	WEV4LLRK18*
6mm	M10x1	1/8"	WEV6LLRK18*
6mm	M12x1.5	1/8"	WEV6LRK18
6mm	M12x1.5	1/4"	WEV6LRK14
8mm	M12x1	1/8"	WEV8LLRK18*
8mm	M14x1.5	1/4"	WEV8LRK14
8mm	M14x1.5	3/8"	WEV8LRK38
10mm	M16x1.5	1/4"	WEV10LRK14
10mm	M16x1.5	3/8"	WEV10LRK38
12mm	M18x1.5	1/4"	WEV12LRK14
12mm	M18x1.5	3/8"	WEV12LRK38
12mm	M18x1.5	1/2"	WEV12LRK12
15mm	M22x1.5	3/8"	WEV15LRK38
15mm	M22x1.5	1/2"	WEV15LRK12
18mm	M26x1.5	1/2"	WEV18LRK12
22mm	M30x2	3/4"	WEV22LRK34
28mm	M36x2	1"	WEV28LRK1

* LL = Extra light series.

Heavy Series

PIPE		MALE THREAD	PART NUMBER
Ø	THREAD		
6mm	M14x1.5	1/4"	WEV6SRK14
8mm	M16x1.5	1/4"	WEV8SRK14
10mm	M18x1.5	3/8"	WEV10SRK38
12mm	M20x1.5	3/8"	WEV12SRK38
12mm	M20x1.5	1/2"	WEV12SRK12
12mm	M20x1.5	3/4"	WEV12SRK34
14mm	M22x1.5	1/2"	WEV14SRK12
16mm	M24x1.5	1/2"	WEV16SRK12
20mm	M30x2	3/4"	WEV20SRK34
25mm	M36x2	1"	WEV25SRK1



Swivel Banjo RSWV-BSP

Light Series

PIPE		MALE THREAD	PART NUMBER
Ø	THREAD		
4mm	M8x1	1/8"	RSWV4LLR18*
6mm	M10x1	1/8"	RSWV6LLR18*
6mm	M12x1.5	1/8"	RSWV6LR18
6mm	M12x1.5	1/4"	RSWV6LR14
8mm	M12x1	1/8"	RSWV8LLR18*
8mm	M14x1.5	1/4"	RSWV8LR14
10mm	M16x1.5	1/4"	RSWV10LR14
12mm	M18x1.5	1/4"	RSWV12LR14
12mm	M18x1.5	3/8"	RSWV12LR38
15mm	M22x1.5	1/2"	RSWV15LR12
18mm	M26x1.5	1/2"	RSWV18LR12
22mm	M30x2	3/4"	RSWV22LR34
28mm	M36x2	1"	RSWV28LR1
35mm	M45x2	1 1/4"	RSWV35LR114
42mm	M52x2	1 1/2"	RSWV42LR112

* LL = Extra light series.

Heavy Series

PIPE		MALE THREAD	PART NUMBER
Ø	THREAD		
6mm	M14x1.5	1/4"	RSWV6SR14
8mm	M16x1.5	1/4"	RSWV8SR14
10mm	M18x1.5	3/8"	RSWV10SR38
12mm	M20x1.5	3/8"	RSWV12SR38
14mm	M22x1.5	1/2"	RSWV14SR12
16mm	M24x1.5	1/2"	RSWV16SR12
20mm	M30x2	3/4"	RSWV20SR34
25mm	M36x2	1"	RSWV25SR1
30mm	M42x2	1 1/4"	RSWV30SR114
38mm	M52x2	1 1/2"	RSWV38SR112

Equal Tee - TV

Light Series



PIPE (x3)		PART NUMBER
Ø	THREAD	
4mm	M8x1	TV4LL*
6mm	M10x1	TV6LL*
6mm	M12x1.5	TV6L
8mm	M12x1	TV8LL*
8mm	M14x1.5	TV8L
10mm	M16x1.5	TV10L
12mm	M18x1.5	TV12L
15mm	M22x1.5	TV15L
18mm	M26x1.5	TV18L
22mm	M30x2	TV22L
28mm	M36x2	TV28L
35mm	M45x2	TV35L
42mm	M52x2	TV42L

* LL = Extra light series.

Heavy Series

PIPE (x3)		PART NUMBER
Ø	THREAD	
6mm	M14x1.5	TV6S
8mm	M16x1.5	TV8S
10mm	M18x1.5	TV10S
12mm	M20x1.5	TV12S
14mm	M22x1.5	TV14S
16mm	M24x1.5	TV16S
20mm	M30x2	TV20S
25mm	M36x2	TV25S
30mm	M42x2	TV30S
38mm	M52x2	TV38S



**Equal Cross - KV
Light Series**

PIPE (x4)		PART NUMBER
Ø	THREAD	
4mm	M8x1	KV4LL*
6mm	M10x1	KV6LL*
6mm	M12x1.5	KV6L
8mm	M12x1	KV8LL*
8mm	M14x1.5	KV8L
10mm	M16x1.5	KV10L
12mm	M18x1.5	KV12L
15mm	M22x1.5	KV15L
18mm	M26x1.5	KV18L
22mm	M30x2	KV22L
28mm	M36x2	KV28L
35mm	M45x2	KV35L
42mm	M52x2	KV42L

Heavy Series

PIPE (x4)		PART NUMBER
Ø	THREAD	
6mm	M14x1.5	KV6S
8mm	M16x1.5	KV8S
10mm	M18x1.5	KV10S
12mm	M20x1.5	KV12S
14mm	M22x1.5	KV14S
16mm	M24x1.5	KV16S
20mm	M30x2	KV20S
25mm	M36x2	KV25S
30mm	M42x2	KV30S
38mm	M52x2	KV38S

* LL = Extra light series.



**BSP Male / BSP Female Adaptor
(Not Coned) RED-R**

FEMALE THREAD	MALE THREAD	PART NUMBER
1/4"	1/8"	REDR1814WD
3/8"	1/8"	REDR1838WD
1/8"	1/4"	REDR1418WD
3/8"	1/4"	REDR1438WD
1/2"	1/4"	REDR1412WD
3/4"	1/4"	REDR1434WD
1/4"	3/8"	REDR3814WD
1/2"	3/8"	REDR3812WD
3/4"	3/8"	REDR3834WD
3/8"	1/2"	REDR1238WD
3/4"	1/2"	REDR1234WD
1"	1/2"	REDR121WD
1 1/4"	1/2"	REDR12114WD
1/2"	3/4"	REDR3412WD
1"	3/4"	REDR341WD
1 1/4"	3/4"	REDR34114WD
1 1/2"	3/4"	REDR34112WD
3/4"	1"	REDR134WD
1 1/4"	1"	REDR1114WD
1 1/2"	1"	REDR1112WD
1"	1 1/4"	REDR1141WD
1 1/2"	1 1/4"	REDR114112WD
1 1/4"	1 1/2"	REDR112114WD



**BSP Female / BSP Male Adaptor
(Not Coned) RED-R**

FEMALE THREAD	MALE THREAD	PART NUMBER
1/8"	3/8"	REDR3818WD
1/8"	1/2"	REDR1218WD
1/4"	1/2"	REDR1214WD
1/4"	3/4"	REDR3414WD
3/8"	3/4"	REDR3438WD
1/4"	1"	REDR114WD
3/8"	1"	REDR138WD
1/2"	1"	REDR112WD
1/2"	1 1/4"	REDR11412WD
3/4"	1 1/4"	REDR11434WD
1/2"	1 1/2"	REDR11212WD
3/4"	1 1/2"	REDR11234WD
1"	1 1/2"	REDR1121WD

Mounting Spacer VK**Light Series**

PIPE Ø	THREAD	PART NUMBER
4mm	M8x1.0	VK4LL*
6mm	M10x1.0	VK6LL*
6mm	M12x1.5	VK6L
8mm	M12x1.0	VK8LL*
8mm	M14x1.5	VK8L
10mm	M16x1.5	VK10L
12mm	M18x1.5	VK12L
15mm	M22x1.5	VK15L
18mm	M26x1.5	VK18L
22mm	M30x2.0	VK22L
28mm	M36x2.0	VK28L
35mm	M45x2.0	VK35L
42mm	M52x2.0	VK42L

**Heavy Series**

PIPE Ø	THREAD	PART NUMBER
6mm	M14x1.5	VK6S
8mm	M16x1.5	VK8S
10mm	M18x1.5	VK10S
12mm	M20x1.5	VK12S
14mm	M22x1.5	VK14S
16mm	M24x1.5	VK16S
20mm	M30x2.0	VK20S
25mm	M36x2.0	VK25S
30mm	M42x2.0	VK30S
38mm	M52x2.0	VK38S

* LL = Extra light series.

Bulkhead Elbow WSV**Light Series**

PIPE Ø	THREAD	PART NUMBER
6mm	M12x1.5	WSV6L
8mm	M14x1.5	WSV8L
10mm	M16x1.5	WSV10L
12mm	M18x1.5	WSV12L
15mm	M22x1.5	WSV15L
18mm	M26x1.5	WSV18L
22mm	M30x2	WSV22L
28mm	M36x2	WSV28L
35mm	M45x2	WSV35L
42mm	M52x2	WSV42L

**Heavy Series**

PIPE Ø	THREAD	PART NUMBER
6mm	M14x1.5	WSV6S
8mm	M16x1.5	WSV8S
10mm	M18x1.5	WSV10S
12mm	M20x1.5	WSV12S
14mm	M22x1.5	WSV14S
16mm	M24x1.5	WSV16S
20mm	M30x2	WSV20S
25mm	M36x2	WSV25S
30mm	M42x2	WSV30S
38mm	M52x2	WSV38S

End Plug VS**Light Series**

PIPE Ø	PART NUMBER
4mm	VS4LL*
6mm	VS6LL*
6mm	VS6LS*
8mm	VS8LL*
8mm	VS8LS*
10mm	VS10LS*
12mm	VS12LS*
15mm	VS15L
18mm	VS18L
22mm	VS22L
28mm	VS28L
35mm	VS35L
42mm	VS42L



Nuts to suit listed on page 61a

Heavy Series

PIPE Ø	PART NUMBER
6mm	VS6LS*
8mm	VS8LS*
10mm	VS10LS*
12mm	VS12LS*
14mm	VS14S
16mm	VS16S
20mm	VS20S
25mm	VS25S
30mm	VS30S
38mm	VS38S

* LL = Extra light series.

* LS = Light and Heavy series.

Nuts to suit Steel Pipe & Fittings

Light Series

PIPE Ø	THREAD	PART NUMBER
4mm	M8x1	M4LL*
6mm	M10x1	M6LL*
6mm	M12x1.5	M6L
8mm	M12x1.5	M8LL*
8mm	M14x1.5	M8L
10mm	M16x1.5	M10L
12mm	M18x1.5	M12L
15mm	M22x1.5	M15L
18mm	M26x1.5	M18L
22mm	M30x2	M22L
28mm	M36x2	M28L
35mm	M45x2	M35L
42mm	M52x2	M42L

Heavy Series

PIPE Ø	THREAD	PART NUMBER
6mm	M14x1.5	M6S
8mm	M16x1.5	M8S
10mm	M18x1.5	M10S
12mm	M20x1.5	M12S
14mm	M22x1.5	M14S
16mm	M24x1.5	M16S
20mm	M30x2	M20S
25mm	M36x2	M25S
30mm	M42x2	M30S
38mm	M52x2	M38S



* LL = Extra light series.

Olives to suit Steel Pipe & Fittings

Light Series

PIPE Ø	PART NUMBER
4mm	R4LL*
6mm	R6LL*
6mm	R6LS*
8mm	R8LS*
10mm	R10LS*
12mm	R12LS*
15mm	R15L
18mm	R18L
22mm	R22L
28mm	R28L
35mm	R35L
42mm	R42L

Heavy Series

PIPE Ø	PART NUMBER
6mm	R6LS*
8mm	R8LS*
10mm	R10LS*
12mm	R12LS*
14mm	R14S
16mm	R16S
20mm	R20S
30mm	R30S
38mm	R38S

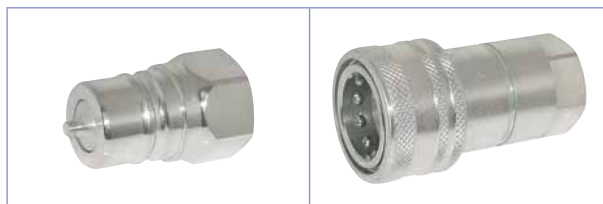


* LL = Extra light series.

* LS = Light and Heavy series.

FRSTER ANV / NV Series Poppet Type - ISO A

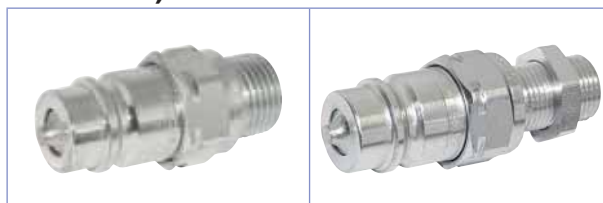
- Connection system: Pushing the male coupling
- Disconnection system: Pulling the male coupling
- Connectability: Without pressure
- Disconnection under pressure: In emergency only
- Shut-off system: Poppet valve
- Interchangeable: According to ISO 7241-1 part A standard
- Other thread types available on request



FEMALE THREAD	BASE	FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
1/4" BSP	04	9 lpm	500 bar	ANV14GASM	ANV14GASF
3/8" BSP	06	30 lpm	300 bar	ANV38GASM	ANV38GASF
1/2" BSP	08	75 lpm	300 bar	NV12GASM	NV12GASF
1/2" NPT	08	75 lpm	300 bar	NV12NPTM	NV12NPTF
M22x1.5	08	75 lpm	300 bar	NV02215M	NV02215F
3/4" BSP	12	180 lpm	300 bar	ANV34GASM	ANV34GASF
1" BSP	16	270 lpm	250 bar	ANV1GASM	ANV1GASF
1 1/4" BSP	20	330 lpm	250 bar	ANV114GASM	ANV114GASF
1 1/2" BSP	24	450 lpm	200 bar	ANV112GASM	ANV112GASF

FRSTER ANV / NV Series Poppet Type - ISO A (Male Thread)

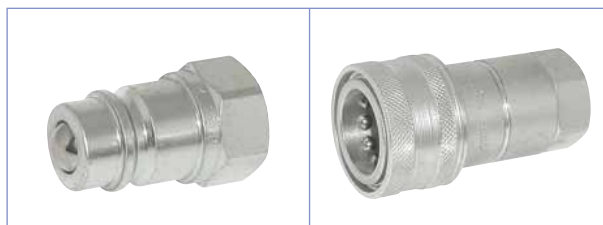
- Connection system: Pushing the male coupling
- Disconnection system: Pulling the male coupling
- Connectability: Without pressure
- Disconnection under pressure: In emergency only
- Shut-off system: Poppet valve
- Interchangeable: According to ISO 7241-1 part A standard
- Other thread types available on request



MALE THREAD	BASE	FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	MALE BULKHEAD (25mm Thread Length)
3/8" BSP	08	75 lpm	300 bar	CNV138GASM	-
M16x1.5	08	75 lpm	300 bar	CNV11615M	-
1/2" BSP	08	75 lpm	300 bar	CNV112GASM	-
M18x1.5	08	75 lpm	300 bar	-	CNV71815M
M22x1.5	08	75 lpm	300 bar	-	CNV72215M
M30x2.0	16	270 lpm	220 bar	CNV163/302M	-

FRSTER NS Series Ball Type ISO - A

- Connection system: Pull back the sleeve
- Disconnection system: Pulling back the sleeve
- Connectability: Without pressure
- Disconnection under pressure: Not allowed
- Shut-off system: Ball valve
- Interchangeable: According to ISO 7241-1 part A standard (1/2" size only)
- Other thread types available on request






FEMALE THREAD	BASE	FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
1/4" BSP	04	15 lpm	250 bar	NS14GASM	NS14GASF
3/8" BSP	06	30 lpm	250 bar	NS38GASM	NS38GASF
1/2" BSP	08	50 lpm	200 bar	NS12GASM	NS12GASF
3/4" BSP	12	80 lpm	170 bar	NS34GASM	NS34GASF
1" BSP	16	140 lpm	220 bar	NS1GASM	NS1GASF

FASTER Tractor Breakaway Quick Release Coupling

- Connection system: Pushing the Male coupling
- Disconnection system: Pulling the Male coupling
- Connectability: Only male coupling under pressure
- Disconnection under pressure: In case of emergency only
- Shut-off system: Poppet valve
- Interchangeable: According to ISO 7241-1 part A

Fitted as Original Equipment on many tractors

Base Size: 08
Max Working Pressure: 250 bar

	THREAD	FLOW RATE	TO SUIT	OE NUMBER	FEMALE PART NUMBER
	Male M22x1.5	68 lpm	Case	-	3CFPV1/2215F
			Claas / Renault	7700041979	
			John Deere	AL166181	
			Landini	-	
			Massey	3794298M2	
			New Holland	87381944	
	12S	68 lpm	-	-	3CFPV212215F
	Male Bulkhead 3/4" UNF	68 lpm	Claas / Renault	0011161790	3CFPV14/34UNFF
	Male Bulkhead 7/8" UNF	68 lpm	Valtra	-	3CFPV778UNFF
	Male 3/4" UNF	68 lpm	Valtra	-	3CFPV134UNFF
	Male Bulkhead M18x1.5	68lpm	Farmtrac	-	3CFPV7/1815F
			New Holland (Italia Manufactured)	-	
	Male Bulkhead M22x1.5	68lpm	Same - Deutz Fahr	-	3CFPV7/2215F
			Claas / Renault	-	
	Female 1/2" BSP	68 lpm	Deutz Fahr	-	3CFPV12GASF
			Lamborghini	-	
			Same	-	
	Female 1/2" NPT	68 lpm	New Holland	-	3CFPV12NPTF
	Female 3/4" UNF	68 lpm	Landini	-	3CFPV34UNFF
	Male Bulkhead 5/8" SAE	75 lpm	Valtra / Valmet	-	4SEPV81458SF
	Male Bulkhead 1/2" BSP	68 lpm	JCB - Fastrac	-	4SFPV412GASF
	Seal kit to suit agricultural breakaway couplings - 3CFPV (Sold as pack of 10)				SKNV12

FASTER PV / CPV Breakaway Coupling

- Connection system: Pushing the male coupling
- Disconnection system: Pulling the male coupling
- Connectability: Without pressure
- Disconnection under pressure: In case of emergency only
- Shut-off system: Poppet valve
- Interchangeable: According to ISO 7241-1 part A standard



THREAD	BASE	FLOW RATE	MAX WORKING PRESSURE	FEMALE WITH FEMALE THREAD	FEMALE WITH MALE THREAD
1/2" BSP	08	75 lpm	300 bar	PV12GASF	-
M22x1.5	08	75 lpm	300 bar	CPV02215F	-
3/4" UNF	08	75 lpm	300 bar	CPV1034UNFF	-
7/8" UNF	08	75 lpm	300 bar	CPV08058SAEF	-
M18 Bulkhead	08	75 lpm	300 bar	-	CPV0851815F



FASTER Double Bracket

- Holds two Push-Pull couplings. To suit PV12GASF Breakaway coupling

DESCRIPTION	PART NUMBER
Double bracket to suit 1/2" couplings	DB-8



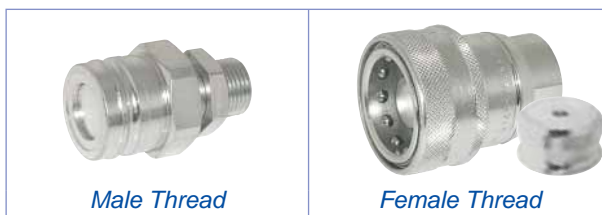
Circlip to suit PV / CPV Breakaway Couplings

- Suitable for couplings with 08 Base

DESCRIPTION	PART NUMBER
Circlip to suit PV / CPV breakaway couplings with 08 Base	AS38

FASTER Trailer Brake Quick Release Couplings VF Series

- Female supplied complete with metal holder
- Safety type available (VFB Series) with patented internal safety slider which allows disconnection only when brakes are applied



THREAD	BASE	FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
M18x1.5	06	40 lpm	220 bar	VF71815M	VF01815F
M22x1.5	06	40 lpm	220 bar	VF52215M	VF02215F
3/8" BSP	06	40 lpm	220 bar	-	VF038GASF
1/2" BSP	06	40 lpm	220 bar	VF112GASM	VF012GASF

FASTER Screw Type Quick Release Couplings VV Series

- Connection system: Screw-on
- Disconnection system: Screw-off
- Connectability: Both Male and Female couplings under residual pressure
- Disconnection under pressure: Allowed under residual pressure
- Shut-off system: Poppet valve
- Interchangeable: According to FASTER internal standard



FEMALE THREAD	BASE	FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
1/4" BSP	04	18 lpm	350 bar	VV14GASM	VV14GASF
3/8" BSP	06	30 lpm	300 bar	VV38GASM	VV38GASF
1/2" BSP	08	45 lpm	300 bar	VV12GASM	VV12GASF
3/4" BSP	12	90 lpm	250 bar	VV34GASM	VV34GASF
1" BSP	16	140 lpm	230 bar	VV1GASM	VV1GASF

FRSTER Heavy Duty Screw Type Quick Release Couplings VVS Series

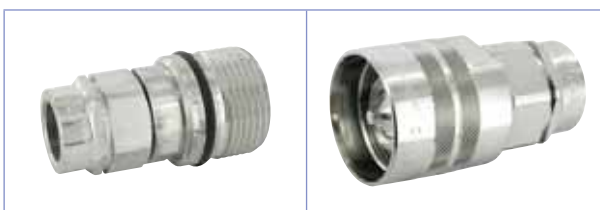
- Connection system: Screw-on
- Disconnection system: Screw-off
- Connectability: Both Male and Female couplings under residual pressure
- Disconnection under pressure: Allowed under residual pressure
- Shut-off system: Poppet valve
- Interchangeable: According to Faster internal standard
- Purposely dimensioned to stand very high pressures and peaks



FEMALE THREAD	BASE	FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
1/4" BSP	04	8 lpm	800 bar	VVS14GASM	VVS14GASF
3/8" BSP	06	18 lpm	800 bar	VVS38GASM	VVS38GASF
1/2" BSP	08	40 lpm	730 bar	VVS12GASM	VVS12GASF
3/4" BSP	12	55 lpm	730 bar	VVS34GASM	VVS34GASF
1" BSP	16	100 lpm	630 bar	VVS1GASM	VVS1GASF
1 1/4" BSP	20	140 lpm	600 bar	VVS114GASM	VVS114GASF
1 1/2" BSP	24	300 lpm	400 bar	VVS112GASM	VVS112GASF
2" BSP	32	1000 lpm	350 bar	VVS2GASM	VVS2GASF

FRSTER Screw Type Quick Release Couplings CVV Series

- Connection system: Screw-on
- Disconnection system: Screw-off
- Connectability: Both Male and Female couplings under residual pressure
- Disconnection under pressure: Allowed under residual pressure
- Shut-off system: Poppet valve
- Interchangeable: German market



FEMALE THREAD	BASE	FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
3/8" BSP	06	30 lpm	380 bar	CVV38GASM	CVV38GASF
M16x1.5	06	30 lpm	380 bar	CVV1615M	CVV1615F
1/2" BSP	08	75 lpm	340 bar	CVV12GASM	CVV12GASF
M22x1.5	08	75 lpm	340 bar	CVV2215M	CVV2215F
M24x1.5	08	75 lpm	340 bar	CVV086/2415MV*	CVV083/2415FV

Male bulkhead thread

FRSTER Screw Type Quick Release Couplings CVE Series

- Connection system: Screw-on
- Disconnection system: Screw-off
- Connectability: Both Male and Female couplings under residual pressure
- Disconnection under pressure: Allowed under residual pressure
- Shut-off system: Poppet valve
- Interchangeable: European market




FEMALE THREAD	BASE	FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
3/4"	12	120 lpm	360 bar	CVE34GASM	CVE34GASF
1"	16	160 lpm	300 bar	CVE1GASM	CVE1GASF

FRSTER® Standard BSP Flat Face Quick Release Coupling

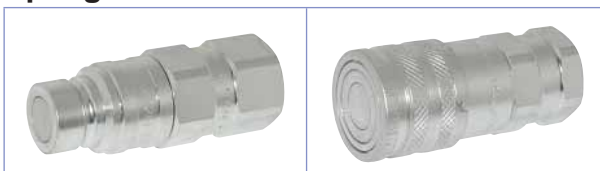
- Connection system: Pushing the male coupling
- Disconnection system: Pulling back the sleeve
- Connectability: Without pressure
- Disconnection under pressure: Not allowed
- Shut-off system: Flat valve (male coupling with double valve)
- Interchangeable: According to ISO 16028 and HTMA standard




FEMALE THREAD	BASE		FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
1/4" BSP	04	16mm	20 lpm	320 bar	2FFI14GASM	2FFI14GASF
3/8" BSP	06	20mm	68 lpm	250 bar	FFN38GASMU	FFN38GASF
1/2" BSP	06	20mm	68 lpm	250 bar	FFN3812GASMU	2FFN3812GASF
3/4" BSP	08	25mm	100 lpm	250 bar	FFI1234GASM	2FFI1234GASF
1" BSP	12	30mm	160 lpm	270 bar	FFI341GASM	2FFI341GASF
1 1/4" BSP	16	36mm	210 lpm	250 bar	FFI1114GASM	2FFI1114GASF

FRSTER® Hi Flow BSP Flat Face Quick Release Coupling

- Connection system: Pushing the male coupling
- Disconnection system: Pulling back the sleeve
- Connectability: Without pressure
- Disconnection under pressure: Not allowed
- Shut-off system: Flat valve (male coupling with double valve)
- Interchangeable: According to ISO 16028 and HTMA standard




FEMALE THREAD	BASE		FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
1/2" BSP	08	25mm	100 lpm	250 bar	2FFI12GASM	2FFI12GASF
3/4" BSP	12	30mm	160 lpm	250 bar	FFI34GASM	2FFI34GASF
1" BSP	16	36mm	210 lpm	250 bar	FFI1GASM	2FFI1GASF

FRSTER® Heavy Duty Hi Flow BSP Flat Face Quick Release Coupling

For applications with repeated shock and vibrations

- Connection system: Pushing the male coupling
- Disconnection system: Pulling back the sleeve
- Connectability: Without pressure
- Disconnection under pressure: Not allowed
- Shut-off system: Flat valve
- Interchangeable: According to ISO 16028 and HTMA standard (except for 1 1/2")



FEMALE THREAD	BASE		FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
3/4" BSP	12	30mm	160 lpm	250 bar	For Male use FFI series (Shown Above)	2FSI34GASF

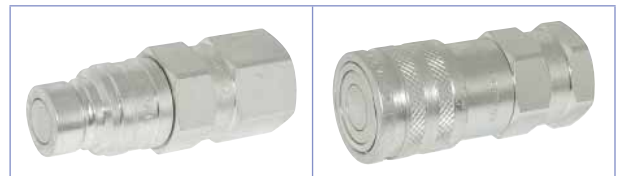
FRSTER Heavy Duty Hi Flow BSP Flat Face Quick Release Coupling
For Heavy Construction, Oil Industry and Earth Moving Applications


- Connection system: Screw-on
- Disconnection system: Screw-off
- Connectability: Both Male and Female couplings under residual pressure
- Disconnection under pressure: Allowed
- Shut-off system: Flat valve
- Interchangeable: According to Faster internal standard
- Screw-on latching system by hexagonal sleeve
- Male couplings with double valve
- FPQ Faster Premier Quality surface treatment
- Automatic slider for threads protection
- Double threaded



FEMALE THREAD	BASE	FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
3/8" BSP	06	45 lpm	300 bar	3FFV38GASM	3FFV38GASF
1/2" BSP	08	72 lpm	300 bar	3FFV12GASM	3FFV12GASF
3/4" BSP	12	150 lpm	300 bar	3FFV34GASM	3FFV34GASF
1" BSP	16	190 lpm	400 bar	3FFV1GASM	3FFV1GASF
1 1/2" BSP	24	320 lpm	400 bar	3FFV112GASM	3FFV112GASF




FRSTER Flat Face Couplings to suit JCB



FEMALE THREAD	BASE		FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
1 1/16" UNF	08	25mm	100 lpm	250 bar	2FFI1234SAEM	2FFI1234SAEF
1 5/16" UNF	12	30mm	160 lpm	270 bar	2FFI341SAEM	2FFI341SAEF

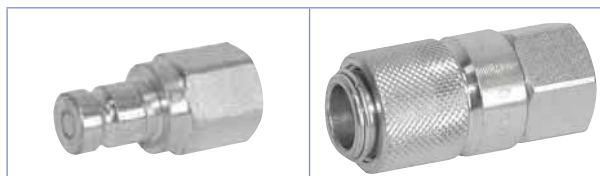
FRSTER Flat Face Couplings to suit Bobcat, Case, CAT, Takeuchi




DESCRIPTION	PART NUMBER
Complete special manifold to suit skid steers	4BD4FI121234C
 1/2" Male repair kit	KIT4FI12M
 3/8" Male repair kit	KIT4BDFFN38
 1/2" Female repair kit	KIT4FI12F

FRSTER® DF Series - Diagnostic Coupling

- Connection system: Pushing the male coupling
- Disconnection system: Pulling back the sleeve
- Connectability: Without pressure
- Disconnection under pressure: Not allowed
- Shut-off system: Flat valve
- Interchangeable: According to ISO 15171-1 standards



THREAD		FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
1/8" NPT Female	12.6mm	2 lpm	470 bar	DF0418NPTM	DF0418NPTF
1/4" NPT Female	12.6mm	2 lpm	470 bar	DF0414NPTM	DF0414NPTF
1/4" NPT Male	12.6mm	2 lpm	470 bar	-	DF041/14NPTF

FRSTER® Series HNV - ISO B

Commonly used in Industrial and Chemical Industry Application

- Connection system: Pulling back the sleeve
- Disconnection system: Pulling back the sleeve
- Connectability: Without pressure
- Disconnection under pressure: Not allowed
- Shut-off system: Poppet valve
- Interchangeable: According to ISO 7241-1 part B standard



FEMALE THREAD	BASE	FLOW RATE	MAX WORKING PRESSURE	MALE PART NUMBER	FEMALE PART NUMBER
1/8" BSP	02	5 lpm	500 bar	HNV18GASM	HNV18GASF
1/4" BSP	04	17 lpm	450 bar	HNV14GASM	HNV14GASF
3/8" BSP	06	50 lpm	300 bar	HNV38GASM	HNV38GASF
1/2" BSP	08	75 lpm	350 bar	HNV12GASM	HNV12GASF
3/4" BSP	12	190 lpm	250 bar	HNV34GASM	HNV34GASF
1" BSP	16	270 lpm	300 bar	HNV1GASM	HNV1GASF
1 1/2" BSP	24	750 lpm	140 bar	HNV112GASM	HNV112GASF
2" BSP	32	1600 lpm	90 bar	HNV2GASM	HNV2GASF

Faster

(Quick release not included)



Fits up to 1/2" hose

Faster ID Clips makes for easy hose recognition (sold separately)

Supplied as shown



Faster FastGrip Line ID Handle

Suitable for up to 1/2" Hose

- ID Clips allow line information to be added (sold separately)
- Steel adaptor offers same resistance to burst pressure of line components
- Working pressure: 350 bar
- Bursting Pressure: 1200 bar

DESCRIPTION	PART NUMBER
FastGrip line ID handle to suit up to 1/2" hose	LM12GAS

Faster ID Clips

Compatible with LM12GAS

TYPE	PART NUMBER
	IDBLUE-1
	IDBLUE-0
	IDGREEN-1
	IDGREEN-0

TYPE	PART NUMBER
	IDYELLOW-1
	IDYELLOW-0
	IDRED-1
	IDRED-0



Faster FastGrip Line ID Handle Kit & ID Clips

Contains:

- 4 x FastGrip Line ID Handles
- 2 x IDBLUE-1
- 2 x IDBLUE-0
- 2 x IDGREEN-1
- 2 x IDGREEN-0



DESCRIPTION	PART NUMBER
FastGrip line ID handle kit	LM12GASKIT



FRSTER PVC Dust Cap / Plug to suit NV Standard 1/2" QR

Made with special oil-proof PVC which can endure temperatures from -30° to +100°C.

DESCRIPTION	COLOUR	TO SUIT MALE	TO SUIT FEMALE
to suit 1/2" quick release	Blue	TF12BLUE	TM12BLUE
	Green	TF12GREEN	TM12GREEN
	Black	TF12N	-
	Red	TF12RED	TM12RED
	Yellow	TF12YELLOW	TM12YELLOW
	Orange	TF12ORANGE	TM12ORANGE



FRSTER PVC Dust Cap / Plug to suit ANV Standard Series

Made with special oil-proof PVC which can endure temperatures from -30° to +100°C.

DESCRIPTION	COLOUR	TO SUIT MALE	TO SUIT FEMALE
to suit 1/4" quick release	Yellow	TFA14YELLOW	TMA14YELLOW
to suit 3/8" quick release	Yellow	TFA38YELLOW	TMA38YELLOW
to suit 3/4" quick release	Yellow	TFA34YELLOW	TMA34YELLOW
to suit 1" quick release	Yellow	TFA1YELLOW	TMA1YELLOW



FRSTER PVC Dust Cap / Plug to suit HNV Series

Made with special oil-proof PVC which can endure temperatures from -30° to +100°C.

DESCRIPTION	COLOUR	TO SUIT MALE	TO SUIT FEMALE
to suit 1/4" quick release	Red	TFH14RED	TMH14RED
to suit 3/8" quick release	Red	TFH38RED	TMH38RED
to suit 1/2" quick release	Red	TFH12RED	TMH12RED
to suit 3/4" quick release	Red	TFH34RED	TMH34RED
to suit 1" quick release	Red	TFH1RED	TMH1RED



FRSTER Aluminium Dust Cap / Plug to suit VV and VVS Series

DESCRIPTION	COLOUR	TO SUIT MALE	TO SUIT FEMALE
to suit 1/4" quick release	Red	TFVM14SR	TMVM14SR
to suit 3/8" quick release	Red	TFVM38SR	TMVM38SR
to suit 1/2" quick release	Red	TFVM12SR	TMVM12SR
to suit 3/4" quick release	Red	TFVM34SR	TMVM34SR
to suit 1" quick release	Red	TFVM1SR	TMVM1SR
to suit 1 1/4" quick release	Red	TFVM114SR	TMVM114SR
to suit 1 1/2" quick release	Red	TFVM112SR	TMVM112SR
to suit 2" quick release	Red	TFVM2SR	TMVM2SR



FRSTER PVC Dust Cap / Plug to suit FFI & 2FFI Series

Made with special oil-proof PVC which can endure temperatures from -30° to +100°C.

DESCRIPTION	COLOUR	TO SUIT MALE	TO SUIT FEMALE
to suit 3/8" quick release	Orange	TMF38ORANGE	TFF38ORANGE
to suit 1/2" quick release	Orange	TMF12ORANGE	TFF12ORANGE
to suit 3/4" quick release	Orange	TMF34ORANGE	TFF34ORANGE
to suit 1" quick release	Orange	TMF1ORANGE	TFF1ORANGE



FASTER[®] PVC Dust Cap to suit DF Series (Diagnostic)

Made with special oil-proof PVC which can endure temperatures from -30° to +100°C.

DESCRIPTION	COLOUR	PART NUMBER
to suit 1/4" quick release	● Black	TFDFBLACK



FASTER[®] PVC Dust Cap to suit Male VF Brake Coupling

Made with special oil-proof PVC which can endure temperatures from -30° to +100°C.

DESCRIPTION	COLOUR	PART NUMBER
to suit 1/2" Male brake coupling	● Green	TFVF



FASTER[®] Automatic Dust Cap

This dust cap has been specifically designed for Push-Pull quick release couplings. It closes automatically when the male is disconnected, sealing off the dust and dirt. It is produced in nylon with stainless steel and is particularly resistant to weather changes and ageing factors.

TO SUIT	DESCRIPTION	COLOUR	PART NUMBER
Female	Dust cap to suit 1/2" Push-Pull female	Blue	TA12

Note: Available in a selection of colours on request



FASTER[®] TNN-TA Series Automatic Caps for Push-Pull Couplings

The TNN-TA series is the simplest and cheapest version in the range of dust caps with oil collector. They can be mounted according to use and supplied in the single version or with inter axis (see table) with straight or 45° rubber holder. Please note that it is possible to insert coloured clips to help identification. Helps avoid contaminating the environment.

INTER AXIS X	STRAIGHT OIL COLLECTORS	45° OIL COLLECTORS
	50mm	TNN250TA
52mm	TNN252TA	TNN252TA45
53mm	TNN253TA	TNN253TA45
55mm	TNN255TA	TNN255TA45
56mm	TNN256TA	TNN256TA45
58mm	TNN258TA	TNN258TA45
59mm	TNN259TA	TNN259TA45
60mm	TNN260TA	TNN260TA45
61mm	TNN261TA	TNN261TA45
63mm	TNN263TA	TNN263TA45
66mm	TNN266TA	TNN266TA45



FASTER® Holder to suit VF Female Brake Coupling (Steel)

- Material: Steel

DESCRIPTION	TO SUIT	PART NUMBER
Holder cap to suit 1/2" brake coupling	Female	TMVF

FASTER® Holder to suit NV / ANV Male

DESCRIPTION	TO SUIT	PART NUMBER
to suit 1/2" ISO 7241/A standard male	Male	SS12M



FASTER® Double Bracket

- Holds two Push-Pull couplings. To suit PV12GASF Breakaway coupling

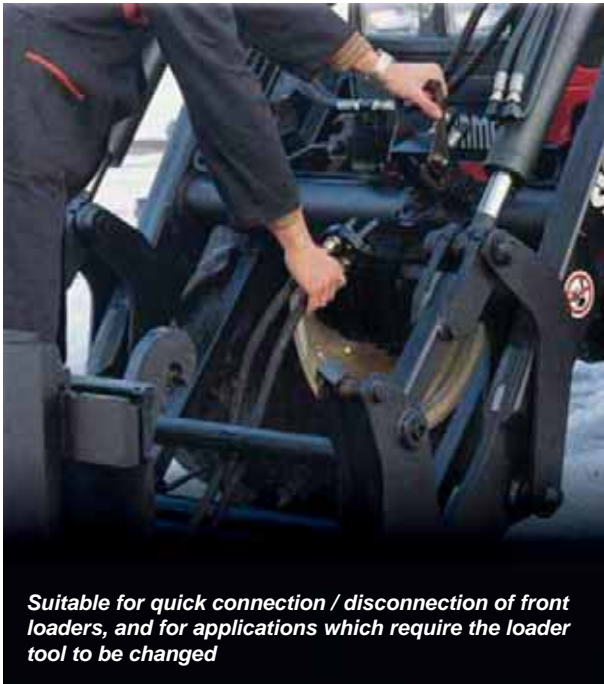
DESCRIPTION	PART NUMBER
Double bracket to suit 1/2" couplings	DB-8



FASTER® Push-Pull Puller

- This can be fitted to Push-Pull coupling sleeves for easier handling
- Made from black nylon
- Available in a selection of colours on request

DESCRIPTION	TO SUIT	PART NUMBER
Puller to suit 1/2" Push-Pull female coupling	Female	D12QR



Suitable for quick connection / disconnection of front loaders, and for applications which require the loader tool to be changed



Multifaster Series

General Features:

Connection System:	By acting on the lever
Disconnection System:	By acting on the lever
Shut-off system:	Flat Face Valve
Connection Under Pressure:	Allowed under residual pressure
Disconnection Under Pressure:	Allowed under residual pressure
Interchangeability:	Faster Internal standard
Main Application Fields:	Agriculture, Forestry and Construction

Test Specifications:

According to ISO 7241-2 standards

Materials:

- Blocks in aluminium with cataphoresis coating treatment
- Couplings in high grade carbon steel
- Hardening treatment for specific stressed area
- Standard seals in Nitrile Rubber (NBR) and Polyurethane
- Back-up ring in PTFE
- Zinc plating and Crill passivation

Temperature Range:

From -25° to +100°C (with standard seals)



FASTER 4 Line Multifaster

For front loaders. Fits directly onto Nimco / Walvoil / Nord hydraulic valves.

Specifications:

Base Size:	06
Flow Rate:	40 lpm
Max Working Pressure:	250 bar

COUPLING THREAD	No. OF COUPLINGS	MALE & FEMALE	PART NUMBER MALE (Mobile)	PART NUMBER FEMALE (Fixed)
1/2" BSP	4	2PS06B4A	2PS0642012MC	2PS0642012FC



DESCRIPTION	PART NUMBER
Replacment handle to suit Female	KITLPS06B



**FASTER[®] 2 Line Multifaster
c/w 3 Pin Electric Line**

To suit front end loader attachment.

- 2 x Hydraulic lines, 1 x electric line (3 pin)
- Body type: P306

Specifications:

Base Size: 06
Flow Rate: 40 lpm
Max Working Pressure: 250 bar

COUPLING THREAD	No. OF COUPLINGS	ELECTRIC LINE	PART NUMBER MALE (Mobile)	PART NUMBER FEMALE (Fixed)
3/8" BSP	2	3 pin	3P306A238GMC	2P3061238GFC



FASTER[®] 2 Line Multifaster

To suit front end loader attachment.

Body type: 2P2 Series

Specifications:

Base Size: 06
Flow Rate: 40 lpm
Max Working Pressure: 250 bar

COUPLING THREAD	No. OF COUPLINGS	PART NUMBER MALE (Mobile)	PART NUMBER FEMALE (Fixed)
1/2" BSP	2	2P206212GM	2P206212GFC



FASTER[®] 2 Line Multifaster

To suit front end loader attachment (Compact).

Body type: 2PB Series

Specifications:

Base Size: 06
Flow Rate: 40 lpm
Max Working Pressure: 250 bar

COUPLING THREAD	No. OF COUPLINGS	PART NUMBER MALE (Mobile)	PART NUMBER FEMALE (Fixed)
1/2" BSP	2	2PB06212GMC	2PB06212GFC

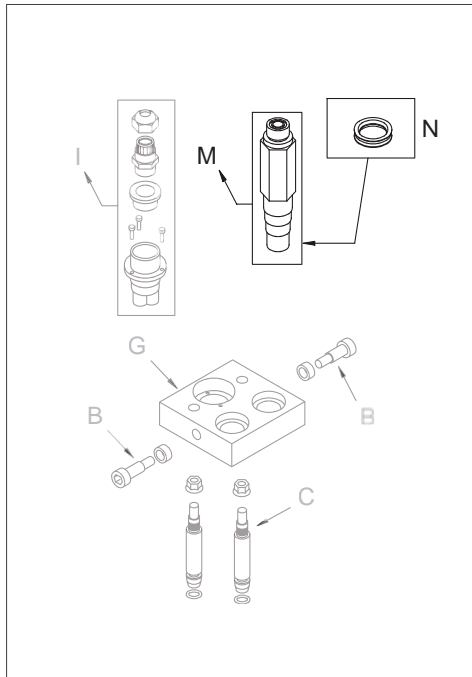


The Multifaster is a semiautomatic patented system which allows the simultaneous connection of several hydraulic, electrical and pneumatic lines.

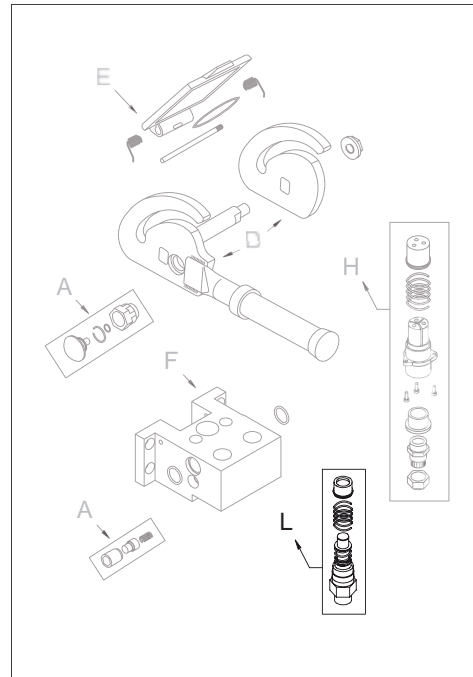
- Connection and Disconnection allowed under pressure
- Flat Face Valve - No Spillages
- No risk of Hydraulic Lines being connected incorrectly
- Compact design
- Available with up to 10 connections

Contact our Sales Staff with your inquiries.

Male / Mobile Unit



Female / Fixed Unit



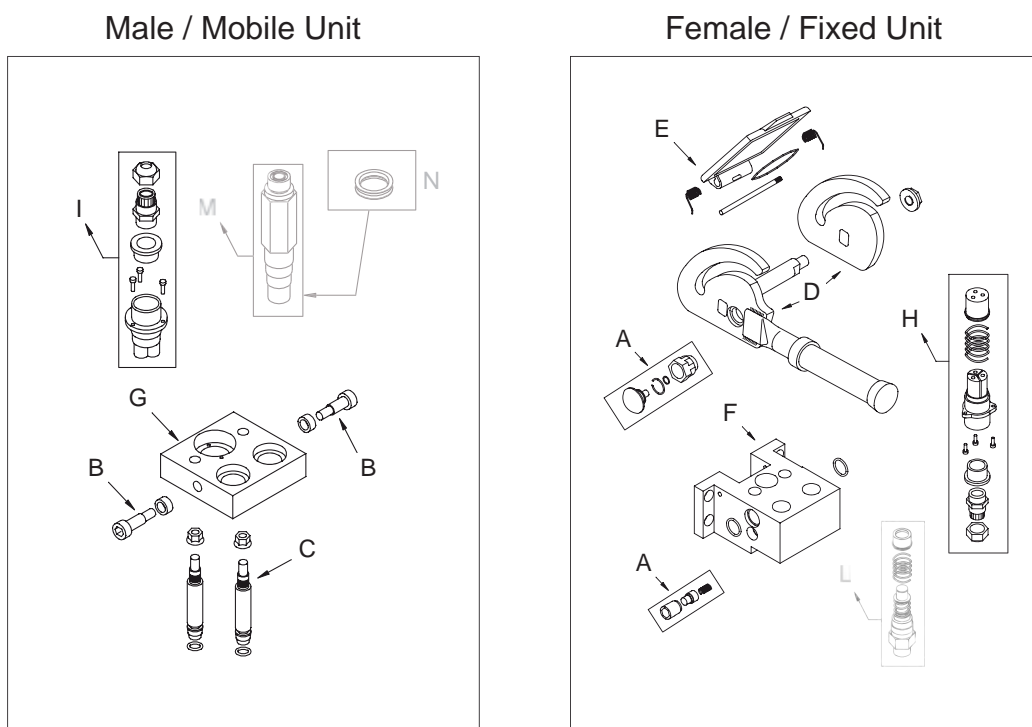
Replacement Couplings to suit **FRSTER** Multifaster Units

THREADED END	THREAD SIZE	BASE SIZE	L	M	
			Coupling to suit Fixed Part	Coupling to suit Mobile Part	
FEMALE THREAD		3/8" BSP	06	KIT2FNB38GASF	KIT2FNP38GASM
		*1/2" BSP	06	KIT2FNB3812GF	KIT2FNP3812GM
		*1/2" BSP	08	KIT2FNB12GASF	KIT2FNP12GASM
		3/4" BSP	08	KIT2FNB1234GF	KIT2FNP1234GM
		9/16" UNF	06	KIT2FNB3838SF	KIT2FNP3838SM
		*3/4" UNF	06	KIT2FNB3812SF	KIT2FNP3812SM
		*3/4" UNF	08	KIT2FNB1212SF	KIT2FNP1212SM
		1 1/16" UN	08	KIT2FNB1234SF	KIT2FNP1234SM
SWIVEL FEMALE		1/2" BSP	06		KIT2FNP382012G
		To suit 2PS06B4A Multifaster. Special coupling for front end loader valve			
MALE THREAD		M16x1.5	06	KIT2FNB38216F	KIT2FNP38216M
		*M18x1.5	06	KIT2FNB38218F	KIT2FNP38218M
		*M22x1.5	06	KIT2FNB38222F	KIT2FNP38222M
		*M18x1.5	08	KIT2FNB12218F	KIT2FNP12218M
		*M22x1.5	08	KIT2FNB12222F	KIT2FNP12222M
		M16x1.5	08	KIT2FNB12226F	KIT2FNP12226M
		9/16" UNF	06	KIT2FNB381114S	KIT2FNP381114S
		11/16" UN	06	KIT2FNB381138S	KIT2FNP381138S
		*13/16" UN	06	KIT2FNB381112S	KIT2FNP381112S
		*13/16" UN	08	KIT2FNB121112S	KIT2FNP121112S
		1" UNS	08	KIT2FNB121158S	KIT2FNP121158S

* Check if 06 or 08 Base Size is required. The Base Size is stamped on the Multifaster Unit.



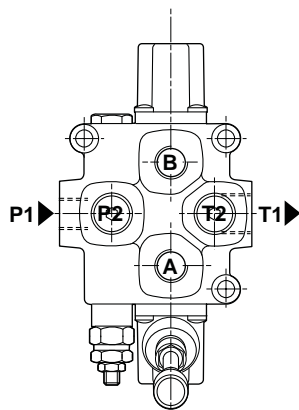
APPROX SIZE	DESCRIPTION	N Seal
9 x 13	04 Seal only to suit Male coupling	KIT2FFNP14M
12 x 17	06 Seal only to suit Male coupling	KIT2FFNP38M
15 x 20	08 Seal only to suit Male coupling	KIT2FFNP12M



Replacement Parts to suit **FRSTER** Multifaster Units

TO SUIT SERIES	A	B	C	D	E	F
	Safety Kit	Pivot Screw	Dowel & Nut Set	Lever	Automatic Dust Cap	Fixed Block Part
2P206	KITSP5S & KITSP4	KITVP4	KITGP4	KITLP206	KITTAP2	KITP206F
2P208		KITVP8	KITGP4	KITLP208	KITTAP2	KITP208F
2PB06	KITSP5S	KITVPB06	KITGP4	KITLPB06	KITTAPB06	KITPB06F
2P306	KITSP5S & KITSP4	KITVP8	KITGP4	KITLP208	KITTAP2	KITP306F
2P506		KITVP4	KITGP4	KITLP506	KITTAP5	KITP506F
2P506-1		KITVP8	KITGP4	KITLP506-1	KITTAP5	KITP5061F
2P508		KITVP8	KITGP4	KITLP508	KITTAP5	KITP508F
2P510		KITVP8	KITGP4	KITLP510	KITTAP5	KITP510F
2P606		KITVP4	KITGP4	KITLP606	KITTAP6	KITP606F
2P608		KITVP8	KITGP4	KITLP608	KITTAP608	KITP608F
2P808		KITVP8	KITGP8	KITLP808	KITTAP8	KITP808F
2PS06		KITVP4	KITGP4	KITLP606	KITTAP6	KITPS06F
2PS06-1		KITVP4	KITGP4	KITLP606	KITTAP6	KITPS060F
2PS08	KITVP8	KITGP4	KITLPS08	KITTAP6	KITPS08F	

TO SUIT SERIES	G, C, B	H		I		A, B, D, E, F
	Mobile Block Part (No Couplings)	Electrical Connections for Fixed Part		Electrical Connections for Mobile Part		Fixed Half (No Couplings)
		3 Poles	7 Poles	3 Poles	7 Poles	
2P206	KITP206M	-	-	-	-	KITP206FL
2P208	KITP208M	KITSPEL083F	KITSPEL087F	KITSPEL083M	KITSPEL087M	KITP208FL
2PB06	KITPB06M	-	-	-	-	KITPB06FL
2P306	KITP306M	KITSPEL083F	KITSPEL087F	KITSPEL083M	KITSPEL087M	KITP306FL
2P506	KITP506M	-	-	-	-	KITP506FL
2P506-1	KITP5061M	KITSPEL083F	KITSPEL087F	KITSPEL083M	KITSPEL087M	KIT506-1FL
2P508	KITP508M	KITSPEL083F	KITSPEL087F	KITSPEL083M	KITSPEL087M	KITP508FL
2P510	KITP510M	KITSPEL083F	KITSPEL087F	KITSPEL083M	KITSPEL087M	KITP510FL
2P606	KITP606M	-	-	-	-	KITP606FL
2P608	KITP608M	KITSPEL083F	KITSPEL087F	KITSPEL083M	KITSPEL087M	KITP608FL
2P808	KITP808M	KITSPEL083F	KITSPEL087F	KITSPEL083M	KITSPEL087M	KITP808FL
2PS06	KITPS06M	-	-	-	-	KITS506FL
2PS06-1	KITPS060M	KITSPEL083FS	KITSPEL087FS	KITSPEL083MS	KITSPEL087MS	KITPS060FL
2PS08	KITPS08M	KITSPEL083F	KITSPEL087F	KITSPEL083M	KITSPEL087M	KITS508FL

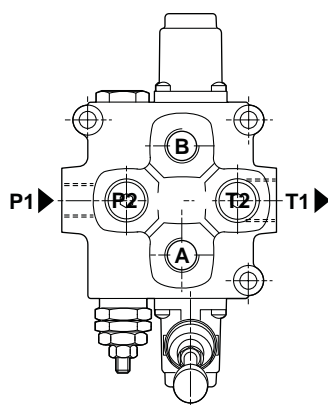


Monoblock Directional Control Valve

Oil temperature range: -30° to +80°C
 Recommended oil temperature: +30° to +60°C
 Viscosity: 10/400 Cst (mm²/s)
 Recommended filtering: 26/23µm ISO DIS 4406
 Hydraulic Fluid: Mineral oil

Monoblock Directional Control Valve 1/2" BSP (60 lpm)

BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		P1, P2, A, B, T2	T1				
1	1 x D/A	1/2" BSP	1/2" BSP	60 lpm	350 bar	25 bar	SQ451001
1	1 x S/A	1/2" BSP	1/2" BSP	60 lpm	350 bar	25 bar	SQ451002
2	2 x D/A	1/2" BSP	1/2" BSP	60 lpm	350 bar	25 bar	SQ452001
2	1 x D/A, 1 x S/A	1/2" BSP	1/2" BSP	60 lpm	350 bar	25 bar	SQ452002
3	3 x D/A	1/2" BSP	1/2" BSP	60 lpm	320 bar	25 bar	SQ453001
3	2 x D/A, 1 x S/A	1/2" BSP	1/2" BSP	60 lpm	320 bar	25 bar	SQ453002
4	4 x D/A	1/2" BSP	1/2" BSP	60 lpm	300 bar	25 bar	SQ454001
4	3 x D/A, 1 x S/A	1/2" BSP	1/2" BSP	60 lpm	300 bar	25 bar	SQ454002
5	5 x D/A	1/2" BSP	1/2" BSP	60 lpm	300 bar	25 bar	SQ455001
6	6 x D/A	1/2" BSP	1/2" BSP	60 lpm	300 bar	25 bar	SQ456001
7	7 x D/A	1/2" BSP	1/2" BSP	60 lpm	300 bar	25 bar	SQ457001
8	8 x D/A	1/2" BSP	1/2" BSP	60 lpm	300 bar	25 bar	SQ458001



Monoblock Directional Control Valve

Oil temperature range: -30° to +80°C
 Recommended oil temperature: +30° to +60°C
 Viscosity: 10/400 Cst (mm²/s)
 Recommended filtering: 26/23µm ISO DIS 4406
 Hydraulic Fluid: Mineral oil

Monoblock Directional Control Valve 3/4" BSP (120 lpm)

BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		P1, P2, A, B, T2	T1				
1	1 x D/A	3/4" BSP	3/4" BSP	120 lpm	350 bar	25 bar	SQ951001
1	1 x S/A	3/4" BSP	3/4" BSP	120 lpm	350 bar	25 bar	SQ951008
2	2 x D/A	3/4" BSP	3/4" BSP	120 lpm	350 bar	25 bar	SQ952001
2	1 x D/A, 1 x S/A	3/4" BSP	3/4" BSP	120 lpm	350 bar	25 bar	SQ952002
3	3 x D/A	3/4" BSP	3/4" BSP	120 lpm	300 bar	25 bar	SQ953001
3	2 x D/A, 1 x S/A	3/4" BSP	3/4" BSP	120 lpm	300 bar	25 bar	SQ953002
4	4 x D/A	3/4" BSP	3/4" BSP	120 lpm	270 bar	25 bar	SQ954001
4	3 x D/A, 1 x S/A	3/4" BSP	3/4" BSP	120 lpm	270 bar	25 bar	SQ954002
5	5 x D/A	3/4" BSP	3/4" BSP	120 lpm	270 bar	25 bar	SQ955001
6	6 x D/A	3/4" BSP	3/4" BSP	120 lpm	270 bar	25 bar	SQ956001



Recovery Vehicle Valve - Electric 12V or 24V DC

- With 12V or 24V electric activation for winch
- Manual controls on all function
- Banks: 5
- Normal flow: 60 lpm
- Ports: 1/2" BSP

DESCRIPTION	VOLT	PART NUMBER
Galtech 5 bank recovery valve - electric	12V	SQ455RVE12V
Galtech 5 bank recovery valve - electric	24V	SQ455RVE24V



Recovery Vehicle Valve - Pneumatic with optional 24V DC actuation

- Manual controls on all function
- Pneumatic control on winch
- Optional 24V DC activation
- Banks: 5
- Normal flow: 60 lpm
- Ports: 1/2" BSP

DESCRIPTION	PART NUMBER
Galtech 5 bank recovery valve - pneumatic	SQ455RVP



24V Electro Pneumatic Valve (6mm Pipe)

DESCRIPTION	PART NUMBER
24V Electro pneumatic control valve for use with SQ455RVP (2 required per valve)	SQ925CP1NS24
Vent to suit 24V electro pneumatic control valve (2 required per valve)	SQ925CP1NSVENT

Control Cable Identification

LEVER END	VALVE END	DESCRIPTION	APPLICATION
<p>M6 M16x1.5</p>	<p>M16x1.5 M6</p>	<p>Type: SQC1 (Page 75 & 81a)</p> <p>Universal ends</p>	<p>Various McHale Wrapper</p>
<p>Hook Type</p>	<p>M16x1.5 M6</p>	<p>Type: 211450 (Page 76)</p> <p>Hook type handle end to suit Morse low load lever (211111) and universal valve end connection</p>	<p>Various</p>
<p>Loose nut to suit Morse MKII Lever</p>	<p>M16x1.5 M6</p>	<p>Type: 210498 (Page 77 & 81a)</p> <p>Loose nut connection to suit Morse MKIII lever and universal valve end connection</p>	<p>Tanco McConnel</p>
<p>Ball Type</p>	<p>M16x1.5 M6</p>	<p>Type: 4K (Page 79 & 80)</p> <p>Ball type joystick connection to suit Morse / Nimco and universal valve end connection</p>	<p>Various Loaders</p>
<p>Ball Type</p>	<p>M16x1.5 Loose nut to suit spool</p>	<p>Type: 4K5099 (Page 81)</p> <p>Ball type connection to suit joystick and loose nut valve end connection. 2.7metres long</p>	<p>Claas 'S' Series Loaders</p>
<p>Ball Type</p>	<p>Supplied with attachment</p>	<p>Type: QCC (Page 81)</p> <p>Ball type joystick connection and spade end connection to suit valve</p>	<p>Quickie Loaders 300, 400, 500, 600, 700, 900</p>
<p>M5 M12</p>	<p>M16x1.5 M5</p>	<p>Type: QCC (Page 81)</p> <p>M5 Inner / M12 Outer joystick connection and M5 Inner / M16 Outer connection to suit valve</p>	<p>Quickie Loader</p>
<p>Clevis End</p>	<p>M16x1.5 M6</p>	<p>Type: RCC (Page 78)</p> <p>Clevis end to suit Indemar remote control lever and universal valve end connection</p>	<p>Spearhead, Lucas, Various</p>
<p>Ball Type</p>	<p>M16x1.5</p>	<p>Type: SCC (Page 81a)</p> <p>Ball type joystick connection and M16x1.5 outer sleeve and clevis on the valve end</p>	<p>Stoll Loader</p>



Remote Handles to suit Galtech SQ Valves

Use in conjunction with SQ cables.

No.	TO SUIT	PART NUMBER
1	Galtech SQ25, SQ30, SQ35, SQ45	SQ925CSL
	Galtech SQ75, SQ80, SQ95, SQ130	SQ975CSL

Joystick to suit Galtech SQ Valves

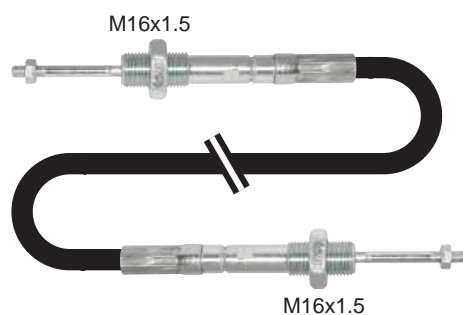
Use in conjunction with SQ cables.

No.	TO SUIT	PART NUMBER
2	Joystick without switch to suit Galtec SQ valves	SQSLA151U

Joystick Handle c/w Switch to suit Galtech SQ Valves

Handle with electric switch for SQ Joystick to enable a Solenoid valve (M10 female thread).

No.	DESCRIPTION	PART NUMBER
3	Joystick handle c/w switch - 1 function	SQSLAH
	Joystick handle c/w switch - 2 function	SQSLAH2



Standard Remote Cables to suit Galtech SQ (M16x1.5)

Use in conjunction with attachment kits.

M16x1.5 outer sleeve and M6 inner cable on both ends.

DESCRIPTION	PART NUMBER
1.0 metre standard remote cable	SQC11000
1.5 metre standard remote cable	SQC11500
2.0 metre standard remote cable	SQC12000
2.5 metre standard remote cable	SQC12500
3.0 metre standard remote cable	SQC13000
3.5 metre standard remote cable	SQC13500

Attachment Kits

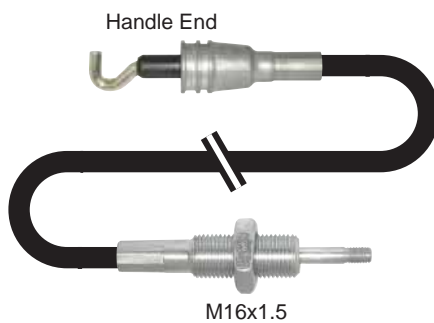
TYPE	DIAGONAL C to C / HOLE SIZE	TO SUIT	MODELS	PART NUMBER
	40 x 4	SQ Valves	SQ25, SQ30, SQ35, SQ45	SQ925CA8
	50 x 5		SQ75, SQ80, SQ95	SQ975CA8
			SQ130	SQ9130CA8
	46 x 6	KONTAK	Kontak valves (Unit10 / KA18)	211597
	35 x 6	WALVOIL	Walvoil loader valve SDM8/DL	AK9DSM11
	42 x 6	BADESTNOST	P40	P940CAK
	42 x 6		P80	P980CAK



Morse Low Load Control Handle

Use in conjunction with 21145 cables (shown below).

DESCRIPTION	PART NUMBER
Morse low load control handle	211111
Mounting plate to suit Morse low load control handle	210979
Retaining slide	210977



Remote Control Cable to suit 211111 Morse Control Handle

Remote control cable with M16x1.5 outer sleeve and M6 inner cable on the valve end and a hook type connection on the control end.

DESCRIPTION	PART NUMBER
1.0 metre remote cable to suit Morse control handle	2114500100
1.5 metre remote cable to suit Morse control handle	2114500150
2.0 metre remote cable to suit Morse control handle	2114500200
2.5 metre remote cable to suit Morse control handle	2114500250
3.0 metre remote cable to suit Morse control handle	2114500300
3.5 metre remote cable to suit Morse control handle	2114500350

Attachment Kits

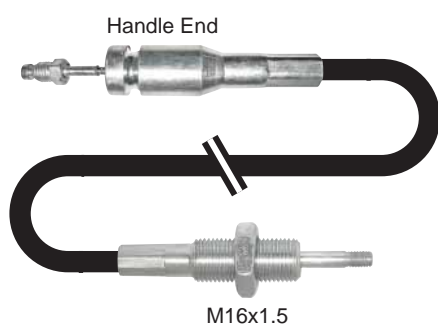
TYPE	DIAGONAL C to C / HOLE SIZE	TO SUIT	MODELS	PART NUMBER
	40 x 4	SQ Valves	SQ25, SQ30, SQ35, SQ45	SQ925CA8
	50 x 5		SQ75, SQ80, SQ95	SQ975CA8
			SQ130	SQ9130CA8
	46 x 6	KONTAK	Kontak valves (Unit10 / KA18)	211597
	35 x 6	WALVOIL	Walvoil loader valve SDM8/DL	AK9DSM11
	42 x 6	BADESTNOST	P40	P940CAK
	42 x 6		P80	P980CAK



Morse MKII Control Handle

Use in conjunction with 210498 cables (shown below).

DESCRIPTION	PART NUMBER
Morse MKIII control handle	212502
Mounting plate to suit Morse MKIII control handle	207194



Remote Control Cable to suit 212502 Morse Control Handle

Remote control cable with M16x1.5 outer sleeve and M6 inner cable on the valve end and a loose nut connection to suit Morse MKIII control handle.

DESCRIPTION	PART NUMBER
1.0 metre remote cable to suit Morse MKIII control handle	21049800100
1.5 metre remote cable to suit Morse MKIII control handle	21049800150
2.0 metre remote cable to suit Morse MKIII control handle	21049800200
2.5 metre remote cable to suit Morse MKIII control handle	21049800250
3.0 metre remote cable to suit Morse MKIII control handle	21049800300
3.5 metre remote cable to suit Morse MKIII control handle	21049800350

Attachment Kits

TYPE	DIAGONAL C to C / HOLE SIZE	TO SUIT	MODELS	PART NUMBER
	40 x 4	SQ Valves	SQ25, SQ30, SQ35, SQ45	SQ925CA8
	50 x 5		SQ75, SQ80, SQ95	SQ975CA8
			SQ130	SQ9130CA8
	46 x 6	KONTAK	Kontak valves (Unit10 / KA18)	211597
	35 x 6	WALVOIL	Walvoil loader valve SDM8/DL	AK9DSM11
	42 x 6	BADESTNOST	P40	P940CAK
	42 x 6		P80	P980CAK



INDEMAR Remote Control Levers

Use in conjunction with RCC cables (shown below)

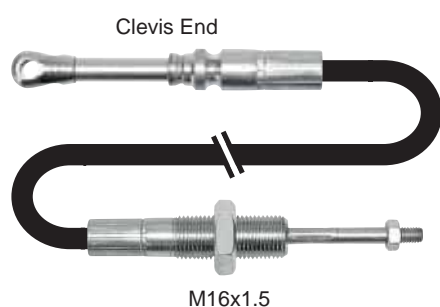
DESCRIPTION	PART NUMBER
Remote control lever	RCL3047
Remote control lever with anti reverse lock	RCL3076

Mounting Kits for Remote Control Levers

Use in conjunction with RCL levers (shown above)



DESCRIPTION	PART NUMBER
Mounting kit for 2 remote control levers	RCL3105
Mounting kit for 3 remote control levers	RCL3106
Mounting kit for 4 remote control levers	RCL3107
Mounting kit for 5 remote control levers	RCL3108



Remote Control Cables to suit Indemar Control Lever

Remote control cable with M16x1.5 outer sleeve and M6 inner cable on the valve end and a clevis connection to suit Indemar control lever.

DESCRIPTION	PART NUMBER
1.0 metre remote cable to suit Indemar control lever	RCC11000
1.5 metre remote cable to suit Indemar control lever	RCC11500
2.0 metre remote cable to suit Indemar control lever	RCC12000
2.5 metre remote cable to suit Indemar control lever	RCC12500
3.0 metre remote cable to suit Indemar control lever	RCC13000
3.5 metre remote cable to suit Indemar control lever	RCC13500

Attachment Kits

TYPE	DIAGONAL C to C / HOLE SIZE	TO SUIT	MODELS	PART NUMBER
	40 x 4	SQ Valves	SQ25, SQ30, SQ35, SQ45	SQ925CA8
	50 x 5		SQ75, SQ80, SQ95	SQ975CA8
			SQ130	SQ9130CA8
	46 x 6	KONTAK	Kontak valves (Unit10 / KA18)	211597
	35 x 6	WALVOIL	Walvoil loader valve SDM8/DL	AK9DSM11
	42 x 6	BADESTNOST	P40	P940CAK
	42 x 6		P80	P980CAK



INDEMAR Joystick to suit Ball Type Cables

Use in conjunction with 4K5 joystick cables

No.	DESCRIPTION	PART NUMBER
1	Complete joystick without electric switches	WK40010
1	Complete joystick with 1 electric switch	WK40011



6



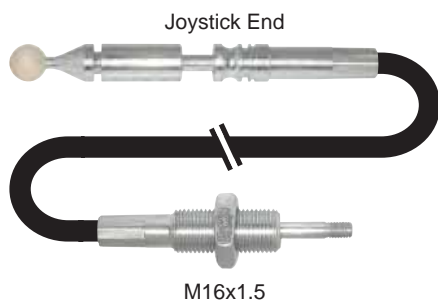
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8

INDEMAR Joystick Replacement Parts

No.	REPLACEMENT PARTS	PART NUMBER
2	Handgrip only without switches - threaded fixing	RCJ8774
	Handgrip with 1 electric switch - threaded fixing	RCJ8556
	Handgrip only without switches - grub screw fixing	RCJ8567
3	Centre piece to suit WK400 joystick	RCJ8555
4	Housing to suit WK400 joystick c/w pivot post	RCJ8554
5	Pivot post for joystick	RCJ3717
6	Electric switch - single c/w 1.8m cable	RCJ8470
7	Electric switch - double c/w 1.8m cable	RCJ8492
8	Electric switch - triple c/w 1.8m cable	RCJ8493



Joystick Remote Cables

Remote control cable with M16x1.5 outer sleeve and M6 inner cable on the valve end and a ball type connection on the control end to suit Nimco / Morse joysticks.

DESCRIPTION	PART NUMBER
1.5 metre joystick cable to suit Nimco / Morse joystick	4K5055
2.0 metre joystick cable to suit Nimco / Morse joystick	4K5060
2.5 metre joystick cable to suit Nimco / Morse joystick	4K5065
2.7 metre joystick cable to suit Nimco / Morse joystick	4K5067
3.0 metre joystick cable to suit Nimco / Morse joystick	4K5070
3.5 metre joystick cable to suit Nimco / Morse joystick	4K5075

Attachment Kits

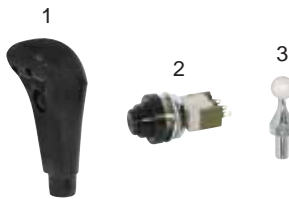
TYPE	DIAGONAL C to C / HOLE SIZE	TO SUIT	MODELS	PART NUMBER
	40 x 4	SQ Valves	SQ25, SQ30, SQ35, SQ45	SQ925CA8
	50 x 5		SQ75, SQ80, SQ95	SQ975CA8
			SQ130	SQ9130CA8
	46 x 6	KONTAK	Kontak valves (Unit10 / KA18)	211597
	35 x 6	WALVOIL	Walvoil loader valve SDM8/DL	AK9DSM11
	42 x 6	BADESTNOST	P40	P940CAK
	42 x 6		P80	P980CAK



Nimco Joystick to suit Ball Type Cables

Use in conjunction with 4K5 Nimco cables.

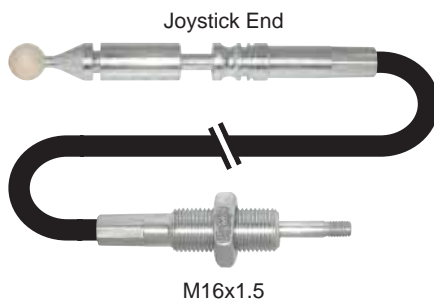
DESCRIPTION		PART NUMBER
Complete joystick without electric switch - replaced by WK40010 (see page 79)		
Complete joystick with 1 electric switch - replaced by WK40011 (see page 79)		
No.	REPLACEMENT PARTS	PART NUMBER
1	Handgrip only without electric switches	WKG10
-	Blanking plate for handgrip without switch	WKEP10
-	Handle plate with single electric switch to suit WK300	WKEP11
	Handle plate with double electric switch to suit WK300	WKEP12
	Handle plate with triple electric switch to suit WK300	WKEP13
4	Centre piece	RCJ8555
5	Pivot post to suit WK300 joystick	RCJ3717



Replacement Parts for 'Old Type' Morse Joystick

(263940501 / WK200)

No.	DESCRIPTION	PART NUMBER
1	Handgrip only without electric switches	263850
2	Electric switch for WK200 joystick	263851
3	Pivot post to suit WK200 joystick	RCJ3717



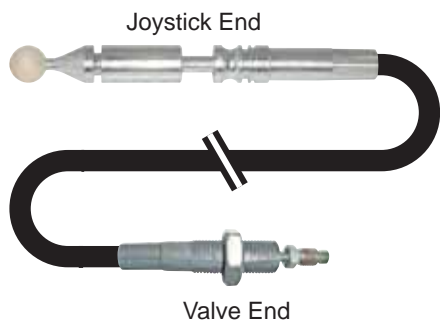
Joystick Remote Cables

Remote control cable with M16x1.5 outer sleeve and M6 inner cable on the valve end and a ball type connection on the control end to suit Nimco / Morse joysticks.

DESCRIPTION	PART NUMBER
1.5 metre joystick cable to suit Nimco / Morse joystick	4K5055
2.0 metre joystick cable to suit Nimco / Morse joystick	4K5060
2.5 metre joystick cable to suit Nimco / Morse joystick	4K5065
2.7 metre joystick cable to suit Nimco / Morse joystick	4K5067
3.0 metre joystick cable to suit Nimco / Morse joystick	4K5070
3.5 metre joystick cable to suit Nimco / Morse joystick	4K5075

Attachment Kits

TYPE	DIAGONAL C to C / HOLE SIZE	TO SUIT	MODELS	PART NUMBER
	40 x 4	SQ Valves	SQ25, SQ30, SQ35, SQ45	SQ925CA8
	50 x 5		SQ75, SQ80, SQ95	SQ975CA8
			SQ130	SQ9130CA8
	46 x 6	KONTAK	Kontak valves (Unit10 / KA18)	211597
	35 x 6	WALVOIL	Walvoil loader valve SDM8/DL	AK9DSM11
	42 x 6	BADESTNOST	P40	P940CAK
	42 x 6		P80	P980CAK



Claas 'S' Series

Remote Control Cable to suit CLAAS 'S' Series Loader

Remote control cable with M16x1.5 outer sleeve and loose nut on the valve end and a ball type connection on the control end to suit Nimco / Morse joysticks.

DESCRIPTION	PART NUMBER
2.7 metre remote cable to suit Claas 'S' Series Loader	4K5099

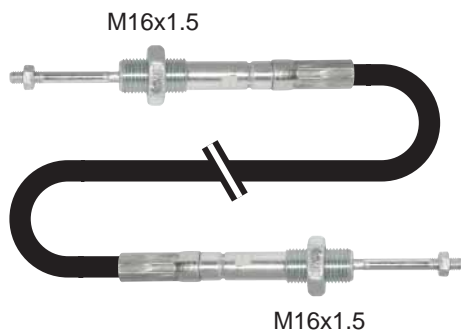


McConnel

Remote Control Cable to suit McConnel

Remote control cable with M16x1.5 outer sleeve and M6 inner cable on the valve end and a loose nut connection to suit Mc Connell control handle.

DESCRIPTION	PART NUMBER
2.0 metre remote cable to suit McConnel control handle	21049800200
2.5 metre remote cable to suit McConnel control handle	21049800250
3.0 metre remote cable to suit McConnel control handle	21049800300



Mc Hale - Bale Wrappers

Cables to suit Mc Hale Bale Wrappers

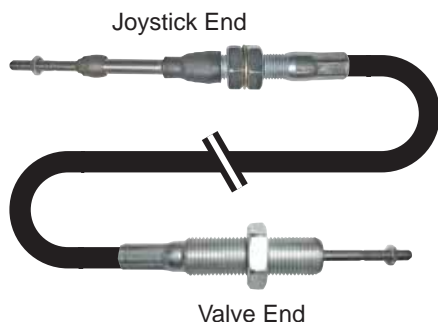
M16x1.5 outer sleeve and M6 inner cable on both ends.

DESCRIPTION	PART NUMBER
3.0 metre standard remote cable	SQC13000
3.5 metre standard remote cable	SQC13500

Quickie Loader

Remote Control Cable to suit QUICKIE

Remote control cable with M16x1.5 outer sleeve and M5 inner cable on the valve end and a M12 outer sleeve and M5 inner cable (to suit Quickie) on control end.



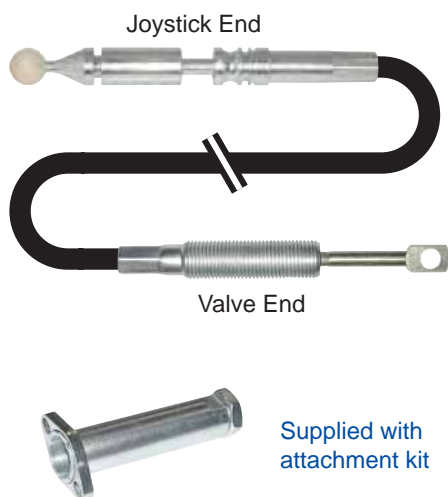
DESCRIPTION	TO FIT AS	PART NUMBER
0.5 metre remote cable to suit Quickie	5020312	QCC5020312
0.7 metre remote cable to suit Quickie	5020316	QCC5020316
1.0 metre remote cable to suit Quickie	5020320	QCC5020320
1.2 metre remote cable to suit Quickie	5020313	QCC5020313
1.45 metre remote cable to suit Quickie	5020321	QCC5020321
1.6 metre remote cable to suit Quickie	5020311	QCC5020311
2.0 metre remote cable to suit Quickie	5020317	QCC5020317
2.4 metre remote cable to suit Quickie	5020314	QCC5020314
3.15 metre remote cable to suit Quickie	5020318	QCC5020318
3.35 metre remote cable to suit Quickie	5020319	QCC5020319

Quickie Loader

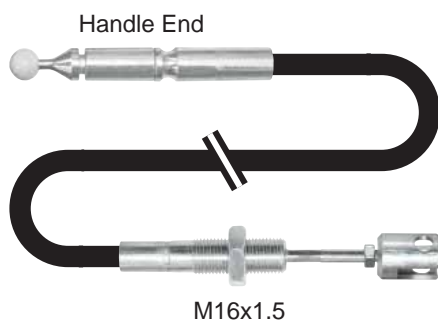
Remote Control Cable to suit QUICKIE

• To suit Quickie 300, 400, 500, 600, 700 & 900

Remote control spade on the valve end and a ball type connection on the control end to suit Nimco / Morse joysticks.



DESCRIPTION	TO FIT AS	PART NUMBER
1.2 metre remote cable to suit Quickie	5020351	QCC5020351
1.4 metre remote cable to suit Quickie	5020352	QCC5020352
1.6 metre remote cable to suit Quickie	5020353	QCC5020353
1.8 metre remote cable to suit Quickie	5020354	QCC5020354
2.0 metre remote cable to suit Quickie	5020355	QCC5020355
2.2 metre remote cable to suit Quickie	5020356	QCC5020356
2.4 metre remote cable to suit Quickie	5020357	QCC5020357
2.6 metre remote cable to suit Quickie	5020358	QCC5020358
2.8 metre remote cable to suit Quickie	5020359	QCC5020359
3.0 metre remote cable to suit Quickie	5020360	QCC5020360
3.2 metre remote cable to suit Quickie	5020361	QCC5020361

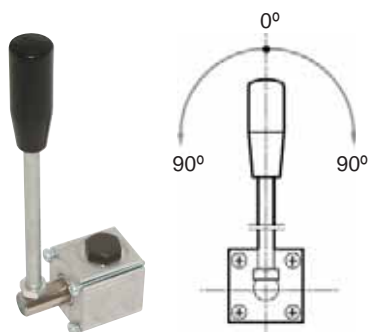


Stoll Loader

Remote Control Cable to suit Stoll Loader

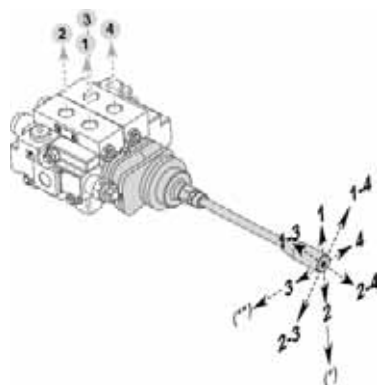
Remote control cable with M16x1.5 outer sleeve and clevis on the valve end and a ball type connection on the control end

DESCRIPTION	PART NUMBER
2.2 metre remote cable to suit Stoll loader	SCC022



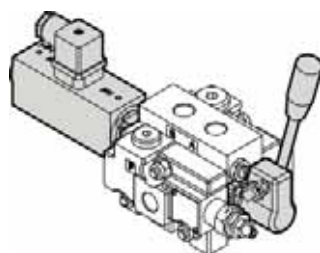
Rotary Hand Control to suit Galtech SQ Valves

DESCRIPTION	TO SUIT SQ 25 / 30 / 35 / 45 VALVES	TO SUIT SQ 75 / 80 / 95 VALVES
Three position with clutched rotary control	SQ925CRTLD	SQ975CRTLD



Dual Axis Control to suit Galtech SQ Valves

DESCRIPTION	TO SUIT SQ 25 / 30 / 35 / 45 VALVES	TO SUIT SQ 75 / 80 / 95 VALVES
Dual Axis Control	SQ925CA15	SQ975CA15

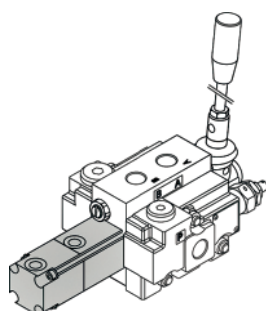


Electric Control

D/A Solenoid Kits to suit Galtech SQ Valves

• Includes D/A spool

VOLT	DESCRIPTION	PART NUMBER
12V	to suit SQ25, SQ30, SQ35, SQ45 valves	SQ925CD4103
12V	to suit SQ75, SQ80, SQ95 valves	SQ975CD4103
24V	to suit SQ25, SQ30, SQ35, SQ45 valves	SQ925CD410324
24V	to suit SQ75, SQ80, SQ95 valves	SQ975CD410324



Pneumatic Control

Pneumatic Kits to suit Galtech SQ Valves (use existing spool)

DESCRIPTION	PART NUMBER
to suit SQ25, SQ30, SQ35, SQ45 valves	SQ925CP1N
to suit SQ75, SQ80, SQ95 valves	SQ975CP1N



24V Electro Pneumatic Valve (6mm Pipe)

DESCRIPTION	PART NUMBER
24V Electro pneumatic control valve for use with CP1N kit	SQ925CP1NS24
Vent to suit 24V electro pneumatic control valve	SQ925CP1NSVENT

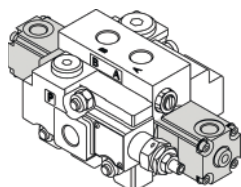


Servo Control

Joystick Control for Hydraulic Servo to suit Galtech SQ

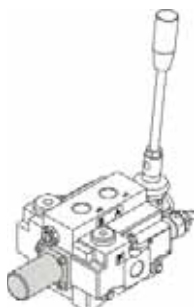
Joystick Control for Hydraulic Servo for simultaneous control of 2 spools.

DESCRIPTION	PART NUMBER
4 way Servo control joystick	SQPRVC01



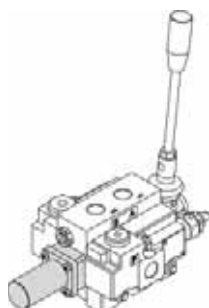
Servo Kit to suit Galtech SQ Valves (use existing spool)

DESCRIPTION	PART NUMBER
to suit SQ25, SQ30, SQ35, SQ45 valves	SQ925CH5
to suit SQ75, SQ80, SQ95 valves	SQ975CH5



Detent Kit to suit Galtech SQ Valves (use existing spool)

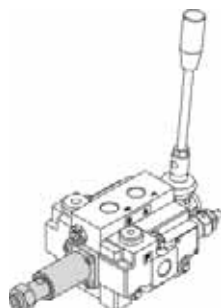
DESCRIPTION	TO SUIT SQ 25 / 30 / 35 / 45 VALVES	TO SUIT SQ 75 / 80 / 95 VALVES
Detent kit back position	SQ925PR1	SQ975PR1
Detent kit forward position	SQ925PR2	SQ975PR2
Detent kit 3 positions	SQ925PR3	SQ975PR3



Floating 4th Position Kit to suit Galtech SQ Valves

Also requires 116 D/A floating 4th position spool. See Spools on page 84.

DESCRIPTION	TO SUIT SQ 25 / 30 / 35 / 45 VALVES	TO SUIT SQ 75 / 80 / 95 VALVES
Floating 4th position kit forward position	SQ925PR10Z1	SQ975PR10Z1



Kick Out Detent Kit to suit Galtech SQ Valves

Also requires special kick out spool. See Spools on page 84.

DESCRIPTION	TO SUIT SQ 25 / 30 / 35 / 45 VALVES	TO SUIT SQ 75 / 80 / 95 VALVES
Kick out detent kit back position	SQ925PR1K	SQ975PR1K
Kick out detent kit forward position	SQ925PR2K	SQ975PR2K
Kick out detent kit 3 positions	SQ925PR3K	SQ975PR3K



Closed Centre / High Pressure Carry Over to suit Galtech SQ Valves

DESCRIPTION	TO SUIT SQ 25 / 30 / 45 VALVES	TO SUIT SQ 75 / 80 / 95 VALVES	TO SUIT SQ 95 VALVES	TO SUIT SQ 130 VALVES
Closed centre plug	SQ925VF16D	SQ975VF16D	SQ995VF16D	SQ9130VF16D
Cavity plug use with closed centre plug	SQ925VLP35CP	SQ975VLP65CP	SQ975VLP65CP	SQ9130VLP105CP
High pressure carry over	SQ925VF6D	SQ975VF6D	SQ995VF6D	SQ9130VF6D
Carry over plug 1" thread	-	-	-	SQ9130VF6D1



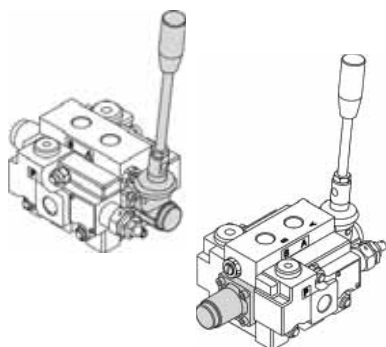
Spools to suit SQ Valves to suit Galtech SQ Valves

DESCRIPTION	TO SUIT SQ 35	TO SUIT SQ 25 / 30 / 45 VALVES	TO SUIT SQ 75 / 80 / 95 VALVES	TO SUIT SQ 130 VALVES
S/A Spool to suit Standard Valve	SQ935S102	SQ925S102	SQ975S102	SQ9130S102
D/A Spool to suit Standard Valve	SQ935S103	SQ925S103	SQ975S103	SQ9130S103
D/A - A and B to T through passage closed	-	SQ925S114	SQ975S114	SQ9130S114
D/A Spool with 4th Position Floating	-	SQ925S116	SQ975S116	SQ9130S116
D/A - A and B to T in 'O' Position (Motor)	-	SQ925S111	SQ975S111	SQ9130S111
S/A Spool to suit D4 Solenoid	-	SQ925S102D4	SQ975S102D4	SQ9130S102D4
D/A Spool to suit D4 Solenoid	-	SQ925S103D4	SQ975S103D4	SQ9130S103D4
D/A Kick out spool	-	SQ925S103K	SQ975S103K	SQ9130S103K
D/A - A and B to T in 'O' Pos. to suit Solenoid	-	SQ925S111D4	SQ975S111D4	SQ9130S111D4



O' Rings & Plastic Rings to suit Spools

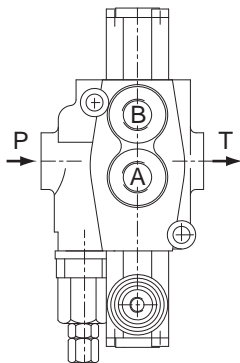
TO SUIT VALVE SPOOL	PLASTIC RING PART NUMBER	O' RING SIZE	O' RING PART NUMBER
To suit SQ 25 / 45 spool	P940CRING	12.42x1.78	1781242OR
To suit SQ 30 spool	-	13.95x2.62	2621395OR
To suit SQ 75 / 95 spool	-	17.86x1.78	1781786OR
To suit SQ 80 spool	-	17.86x2.62	2621786OR
To suit SQ 130 spool	-	20.22x3.53	3532022OR



Replacement Handles / Caps to suit Galtech Valve Controls

DESCRIPTION	TO SUIT SQ 25 / 30 / 35 / 45 VALVES (M8 Thread)	TO SUIT SQ 75 / 80 / 95 VALVES (M10 Thread)
Short handle only	SQ925CHSML	SQ975CHSML
Standard handle only	SQ925CHSTD	SQ975CHSTD
Long handle only	SQ925CHLRG	SQ975CHLRG
Bracket complete with standard handle	SQ925CA1	SQ975CA1
Spring end cap	SQ925CA3	SQ975CA3
Standard spring, three spring positions centred in 0	SQ925PM1	SQ975PM1

Badestnost
hydraulic components



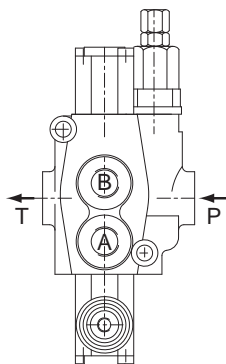
Nominal Flow: 35 lpm
 Max Pressure - P: 250 bar
 Max Pressure - A, B: 300 bar
 Max Back Pressure - T: 50 bar
 Hydraulic Fluid: Mineral oil
 Ports P, T, A, B: 3/8" BSP

P35 Monoblock Directional Control Valve 3/8" BSP (35 lpm)

Note: Not possible to connect to closed centre or high pressure carry over.

BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		P, A, B	T				
1	1 x D/A	3/8" BSP	3/8" BSP	35 lpm	250 bar	50 bar	P351001
1	1 x S/A	3/8" BSP	3/8" BSP	35 lpm	250 bar	50 bar	P351002

Badestnost
hydraulic components



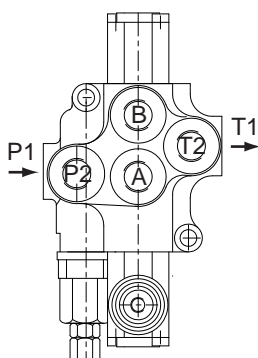
Nominal Flow: 35 lpm
 Max Pressure - P: 250 bar
 Max Pressure - A, B: 300 bar
 Max Back Pressure - T: 50 bar
 Hydraulic Fluid: Mineral oil
 Ports P, T, A, B: 3/8" BSP

P35R Monoblock Directional Control Valve 3/8" BSP (35 lpm)

Note: Not possible to connect to closed centre or high pressure carry over.

BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		P, A, B	T				
1	1 x D/A	3/8" BSP	3/8" BSP	35 lpm	250 bar	50 bar	P351001R

Badestnost
hydraulic components



Nominal Flow: 35 lpm
 Max Pressure - P: 250 bar
 Max Pressure - A, B: 300 bar
 Max Back Pressure - T: 50 bar
 Hydraulic Fluid: Mineral oil
 Ports P, T, A, B: 3/8" BSP

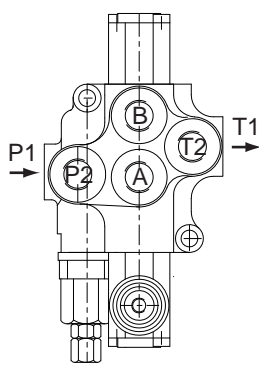
P38 Monoblock Directional Control Valve 3/8" BSP (35 lpm)

Note: With optional P and T ports

Note: Not possible to connect to closed centre or high pressure carry over.

BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		P, A, B	T				
1	1 x D/A	3/8" BSP	3/8" BSP	35 lpm	250 bar	50 bar	P381001
1	1 x S/A	3/8" BSP	3/8" BSP	35 lpm	250 bar	50 bar	P381002

Note: For replacement parts see P35 listings.



Nominal Flow: 35 lpm
 Max Pressure - P: 250 bar
 Max Pressure - A, B: 300 bar
 Max Back Pressure - T: 50 bar
 Hydraulic Fluid: Mineral oil
 Ports P, T, A, B: 3/8" BSP

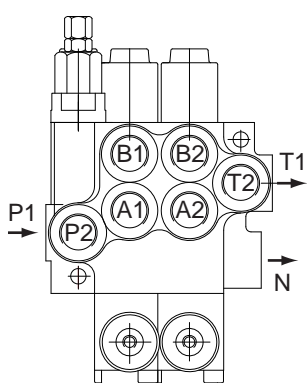
P38 Monoblock Directional Control Valve 3/8" BSP (35 lpm)

Note: With optional P and T ports

Note: Not possible to connect to closed centre or high pressure carry over.

BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		P, A, B	T				
1	1 x D/A	3/8" BSP	3/8" BSP	35 lpm	250 bar	50 bar	P381001
1	1 x S/A	3/8" BSP	3/8" BSP	35 lpm	250 bar	50 bar	P381002

Note: For replacement parts see P35 listings.

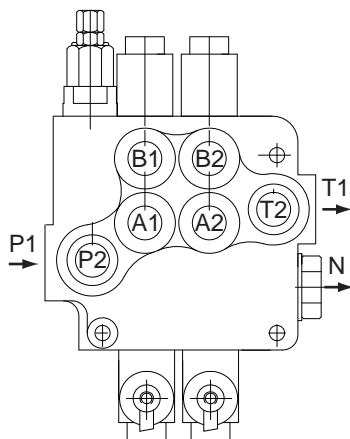


	3/8" A&B Ports	1/2" A&B Ports
Nominal Flow:	40 lpm	50 lpm
Max Pressure - P:	250 bar	250 bar
Max Pressure - A, B:	300 bar	300 bar
Max Back Pressure - T:	50 bar	50 bar
Hydraulic Fluid:	Mineral oil	Mineral oil
Ports A, B:	3/8" BSP	1/2" BSP
Ports P, T, N:	1/2" BSP	1/2" BSP

P40 Monoblock Directional Control Valve 3/8" (40 lpm) or 1/2" BSP (50 lpm)

BANKS	SPOOL SET-UP	PORTS P, T, N	FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER	PART NUMBER
						3/8" A&B PORTS	1/2" A&B PORTS
1	1 x D/A	1/2" BSP	40 lpm	250 bar	50 bar	P401001	P401001-12
1	1 x S/A	1/2" BSP	40 lpm	250 bar	50 bar	P401002	P401002-12
2	2 x D/A	1/2" BSP	40 lpm	250 bar	50 bar	P402001	P402001-12
2	1 x D/A, 1 x S/A	1/2" BSP	40 lpm	250 bar	50 bar	P402002	P402002-12
3	3 x D/A	1/2" BSP	40 lpm	250 bar	50 bar	P403001	P403001-12
3	2 x D/A, 1 x S/A	1/2" BSP	40 lpm	250 bar	50 bar	P403002	P403002-12
4	4 x D/A	1/2" BSP	40 lpm	250 bar	50 bar	P404001	P404001-12
4	3 x D/A, 1 x S/A	1/2" BSP	40 lpm	250 bar	50 bar	P404002	-
5	5 x D/A	1/2" BSP	40 lpm	250 bar	50 bar	P405001	P405001-12
5	4 x D/A, 1 x S/A	1/2" BSP	40 lpm	250 bar	50 bar	P405002	-
6	6 x D/A	1/2" BSP	40 lpm	250 bar	50 bar	P406001	-
6	5 x D/A, 1 x S/A	1/2" BSP	40 lpm	250 bar	50 bar	P406002	-
7	7 x D/A	1/2" BSP	40 lpm	250 bar	50 bar	P407001	-
7	6 x D/A, 1 x S/A	1/2" BSP	40 lpm	250 bar	50 bar	P407002	-

Badestnost
hydraulic components

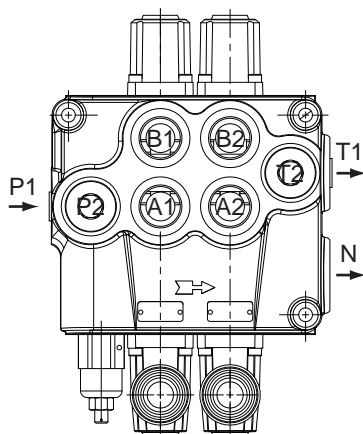


Nominal Flow: 80 lpm
 Max Pressure - P: 250 bar
 Max Pressure - A, B: 300 bar
 Max Back Pressure - T: 50 bar
 Hydraulic Fluid: Mineral oil
 Ports A, B, P: 1/2" BSP
 Ports T, N: 3/4" BSP

P80 Monoblock Directional Control Valve 1/2" BSP (80 lpm)

BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		P, A, B	T, N				
1	1 x D/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P801001
1	1 x S/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P801002
2	2 x D/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P802001
2	1 x D/A, 1 x S/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P802002
3	3 x D/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P803001
3	2 x D/A, 1 x S/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P803002
4	4 x D/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P804001
4	3 x D/A, 1 x S/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P804002
5	5 x D/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P805001
5	4 x D/A, 1 x S/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P805002
6	6 x D/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P806001
6	5 x D/A, 1 x S/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P806002

Badestnost
hydraulic components

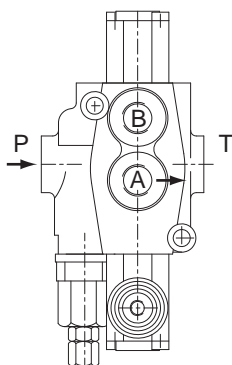


Nominal Flow: 120 lpm
 Max Pressure - P: 250 bar
 Max Pressure - A, B: 300 bar
 Max Back Pressure - T: 50 bar
 Hydraulic Fluid: Mineral oil
 Ports A, B: 1" BSP
 Ports P, T, N: 1" BSP

P120 Monoblock Directional Control Valve 1" BSP (120 lpm)

BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		P, A, B	T, N				
1	1 x D/A	1" BSP	1" BSP	120 lpm	250 bar	50 bar	P1201001
1	1 x S/A	1" BSP	1" BSP	120 lpm	250 bar	50 bar	P1201002
2	2 x D/A	1" BSP	1" BSP	120 lpm	250 bar	50 bar	P1202001
2	1 x D/A, 1 x S/A	1" BSP	1" BSP	120 lpm	250 bar	50 bar	P1202002
3	3 x D/A	1" BSP	1" BSP	120 lpm	250 bar	50 bar	P1203001
3	2 x D/A, 1 x S/A	1" BSP	1" BSP	120 lpm	250 bar	50 bar	P1203002
4	4 x D/A	1" BSP	1" BSP	120 lpm	250 bar	50 bar	P1204001
4	3 x D/A, 1 x S/A	1" BSP	1" BSP	120 lpm	250 bar	50 bar	P1204002

Badestnost
Hydraulic components



Nominal Flow: 35 lpm
 Max Pressure - P: 250 bar
 Max Pressure - A, B: 300 bar
 Max Back Pressure - T: 50 bar
 Hydraulic Fluid: Mineral oil
 Ports P, T, A, B: 3/8" BSP

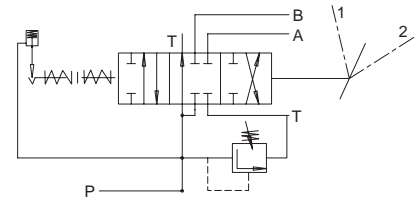
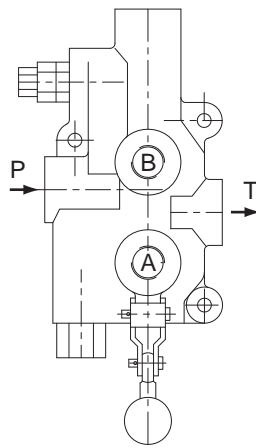
P35 Log Splitter Valve 3/8" BSP (35 lpm)

Note: Not possible to connect to closed centre or high pressure carry over.

BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		P, A, B	T				
1	1 x D/A	3/8" BSP	3/8" BSP	35 lpm	250 bar	50 bar	P351001P7

Badestnost
hydraulic components

Log Splitter Valve



Nominal Flow: 80 lpm
 Max Pressure - P: 250 bar
 Max Pressure - A, B: 300 bar
 Max Back Pressure - T: 10 bar
 Hydraulic Fluid: Mineral oil
 Ports A, B: 1/2" BSP
 Ports P, T: 3/4" BSP

P81 1/2" Valve with Kick-Out to suit Log Splitter (80 lpm)

- Kick-out pressure can be set between 70-140 bar
- Automatically kicks into neutral position on return of ram

Note: In exposed environments do not mount with spool in vertical position

BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		A, B	P, T				
1	1 x D/A with Kick-out	1/2" BSP	3/4" BSP	80 lpm	250 bar	10 bar	P811000

Spool for close centre to suit Badestnost P811000 Valve

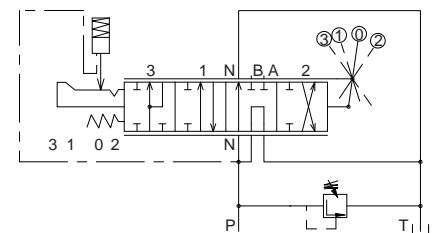
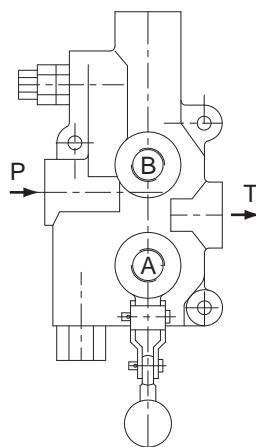


DESCRIPTION	PART NUMBER
Spool for close centre to suit P811000 valve	P981SM

Note: This spool will not suit P81RSG valve (Shown below)

Badestnost
hydraulic components

Log Splitter Valve with Rapid Extend Feature



Nominal Flow: 80 lpm
 Max Pressure - P: 250 bar
 Max Pressure - A, B: 300 bar
 Max Back Pressure - T: 10 bar
 Hydraulic Fluid: Mineral oil
 Ports A, B: 1/2" BSP
 Ports P, T: 3/4" BSP

P81RSG 1/2" Valve with Kick-Out and Rapid Extend Feature to suit Log Splitter (80 lpm)

- Kick-out pressure can be set between 70-140 bar
- Automatically kicks into neutral position on return of ram
- Can be switched between high speed mode or high force mode where required

Note: In exposed environments do not mount with spool in vertical position

BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		A, B	P, T				
1	1 x D/A with Kick-out and R.E.F.	1/2" BSP	3/4" BSP	80 lpm	250 bar	10 bar	P81RSG

Regulator Valve to suit Badestnost P81 Valves



DESCRIPTION	PART NUMBER
Replacement regulator valve to suit P81 valves	P981REG

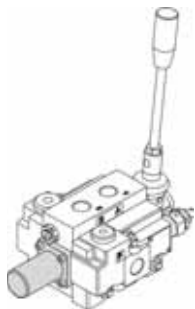


Nominal Flow: 80 lpm
 Max Pressure - P: 250 bar
 Max Pressure - A, B: 300 bar
 Max Back Pressure - T: 50 bar
 Hydraulic Fluid: Mineral oil
 Ports A, B: 1/2" BSP
 Ports P, T, N: 3/4" BSP

P80 Post Driver Valve with Safety Lever (80 lpm)

• Safety lever fitted on single acting valve to prevent accidental use

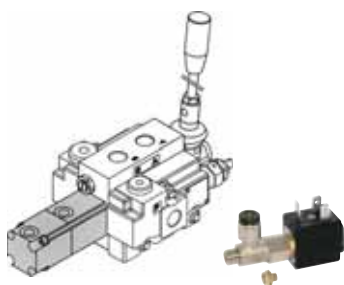
BANKS	SPOOL SET-UP	PORTS		FLOW RATE	MAX WORK PRESSURE	MAX BACK PRESSURE	PART NUMBER
		P, A, B	T, N				
3	2 x D/A, 1 x S/A	1/2" BSP	3/4" BSP	80 lpm	250 bar	50 bar	P803002KZV



Positioning Kits to suit *Badestnost* Monoblocks Valves

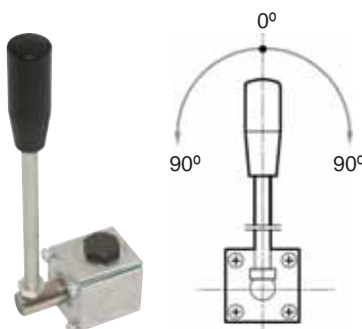
DESCRIPTION	TO SUIT P35 VALVE	TO SUIT P40 VALVE	TO SUIT P80 VALVE	TO SUIT P120 VALVE
Spring centred (standard)	P935P1	P940P1	P980P1	P9120P1
Detent kit - all 3 positions	P935P8	P940P8	P980P8	P9120P8
Detent kit - forward post.	P935P2	P940P2	P980P2	P9120P2
Detent kit - back position	P935P3	P940P3	P980P3	P9120P3
Floating 4th position kit (See Note)	-	P940P16	P980P12	-

Note: Floating 4th position kit also requires spool - page 84e



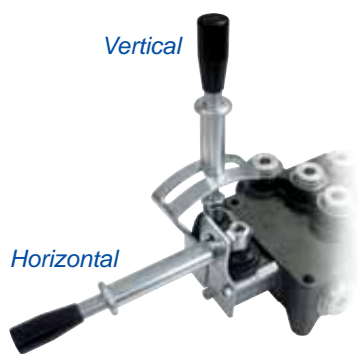
Control Kits to suit *Badestnost* Monoblocks Valves

DESCRIPTION	TO SUIT P35 VALVE	TO SUIT P40 VALVE	TO SUIT P80 VALVE
Hydraulic servo control kit	N/A	P940CH	P980CH
Pneumatic control kit	N/A	P940CP	P980CP
24V Electro pneumatic control valve for use with pneumatic control kits	SQ925CP1NS24		
Vent to suit 24V electro pneumatic control kit	SQ925CP1NSVENT		



Rotary Control Lever to suit *Badestnost* Monoblocks Valves

DESCRIPTION	TO SUIT P35 VALVE	TO SUIT P40 VALVE	TO SUIT P80 VALVE
Rotary control lever c/w spool to suit	P935RCL	N/A	N/A



Safety Levers to suit *Badestnost* Monoblocks Valves

• Ideal for Post Driver application

DESCRIPTION	TO SUIT P35 VALVE	TO SUIT P40 VALVE	TO SUIT P80 VALVE
Safety lever horizontal type	N/A	P94080KZH	P94080KZH
Safety lever vertical type	N/A	P94080KZV	P94080KZV



Remote Cable Attachment Kits to suit *Badestnost* Valves

DESCRIPTION	TO SUIT P35 VALVE	TO SUIT P40 VALVE	TO SUIT P80 VALVE
Remote cable attachment kits	N/A	P940CAK	P980CAK



Spools to suit *Badestnost* Monoblock Valves

DESCRIPTION	TO SUIT P35 VALVE	TO SUIT P40 VALVE	TO SUIT P80 VALVE	TO SUIT P120 VALVE
Double acting spool	P935SA	P940SA	P980SA	P9120SA
Single acting spool	P935SB	P940SB	P980SB	P9120SB
Motor spool	P935SD	P940SD	P980SD	P9120SD
Floating 4th position spool (See Note)	-	P940SK	P980SL	-

Note: Floating 4th position spool also requires positioning kit - page 84c



Closed Centre / High Pressure Carry Over to suit *Badestnost* Monoblock Valves

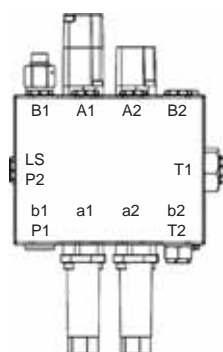
No.	DESCRIPTION	TO SUIT P40 VALVE	TO SUIT P80 VALVE	TO SUIT P120 VALVE
1	High pressure carry over	P940VPBP	P980VPBP	P9120VPBP
2	Closed centre plug	P940VCCP	P980VCCP	P9120VCCP
3	Cavity plug (Note)	P940PRVCP	P980PRVCP	P9120PRVCP

Note: Cavity plug used in conjunction with closed centre plug
Fitted to 'N' port



Spare Parts to suit *Badestnost* Monoblock Valves

DESCRIPTION	TO SUIT P35 VALVE (M8 Thread)	TO SUIT P40 VALVE (M8 Thread)	TO SUIT P80 VALVE (M10 Thread)
Standard lever c/w bracket	P935KZ1	P940KZ1	P980KZ1
Standard lever	P940LEVER	P940LEVER	P980LEVER
Washer to suit valves	P940WASHER	P940WASHER	P980WASHER
O' ring to suit valves	315OR	315OR	418OR
Spring end cap	P935SC	P94080SC	P94080SC



Front End Loader Valve

Supplied c/w Attachment Kits.

Standard RV pressure settings: 185 bar
 Temperature range: -15° to +80°C
 Viscosity: 10/400 Cst (mm²/s)
 Recommended filtering: 18/14 ISO DIS 4406
 Hydraulic Fluid: Mineral oil

Front End Loader Valve with Floating 4th Position

TYPE	SPOOL SET-UP	PORTS						FLOW RATE	MAX WORK PRESSURE	PART NUMBER
		A1, A2, B1, B2, P2	T2	P1	T1	LS				
Open centred	1 x D/A, 1 x D/A - floating	1/2"	3/4"	1/2"	*3/4"	-	90 lpm	250 bar	CV452	
Load sensing	1 x D/A, 1 x D/A - floating	1/2"	3/4"	1/2"	-	1/4"	90 lpm	250 bar	CV452LS	

* T1 complete with High Pressure Carry Over (1/2" BSP).

Accessories to suit Front End Loader

ITEM	DESCRIPTION	PART NUMBER
	Attachment kit to suit WALVOIL SDM8/DL valve	AK9DSM11
	Attachment kit to suit AKON loader valve	CV452AK
	Repair kit to suit WALVOIL Joystick	AK9SC019KIT
	1.5m Joystick control cable	4K5055
	2.0m Joystick control cable	4K5060
	2.5m Joystick control cable	4K5065
	3.0m Joystick control cable	4K5070
	3.5m Joystick control cable	4K5075
	Joystick less switch	WK40010
	Joystick complete with one switch	WK40011
	12V - 6/2 Solenoid divertor valve - 3/8" BSP	BSV38
	12V - 6/2 Solenoid divertor valve - 1/2" BSP	BSV12
	Soft drive kit 0.7 litre with manual ON / OFF valve	SDK750
	Soft drive kit 0.7 litre with electric ON / OFF valve with LED 'ON' indicator	SDK75012V
	Optional solenoid shut-off valve (N/C) for soft drive	EV2538A
	4 line Multifaster unit - 1/2" BSP	2PS06B4A
	2 line Multifaster unit - 1/2" BSP (Male section 2P206212GM and Female section 2P206212GFC)	2P206212GM 2P206212GFC
	Compact 2 line Multifaster unit - 1/2" BSP (Male section 2PB06212GMC and Female section 2PB06212GFC)	2PB06212GMC 2PB06212GFC



Front Loader Kits

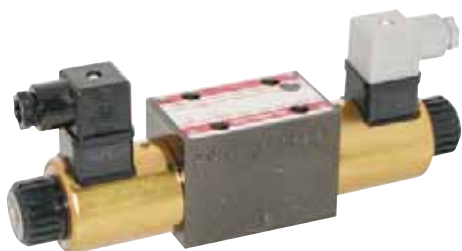
- Up to 90 lpm

Kit includes the following:

- Front Loader Valve with floating fourth position
- 2 x control cables
- Cable attachment kits
- Joystick c/w switch

DESCRIPTION	CABLE LENGTH	PART NUMBER
To suit OPEN centre hydraulic system	2.0 metre	FLK001
To suit CLOSED centre / load sensing hydraulic system	2.0 metre	FLK002
To suit CLOSED centre / load sensing hydraulic system	1.5 metre	FLK003
To suit CLOSED centre / load sensing hydraulic system	2.5 metre	FLK004

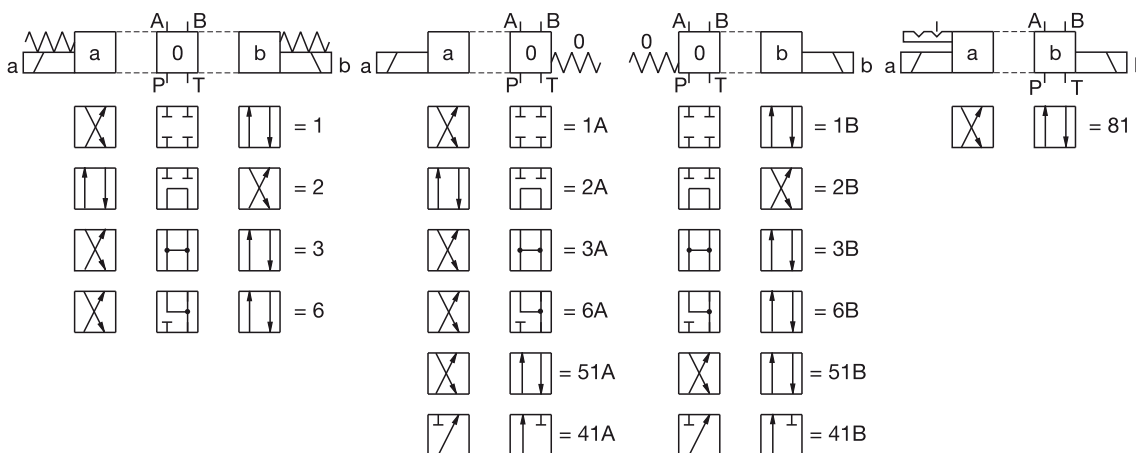
Cetop 03 Directional Solenoid Valve



Direct operation by solenoid
 5 chamber model with good spool guidance
 Optimized flow paths for low losses of pressure
 Wet pin solenoid with interchangeable coil
 Manual emergency control

Maximum pressure: 350 bar
 Maximum flow rate: 60 lpm
 Oil temperature range: -20° to +70°C
 Viscosity range: 15 to 380 mm²/s

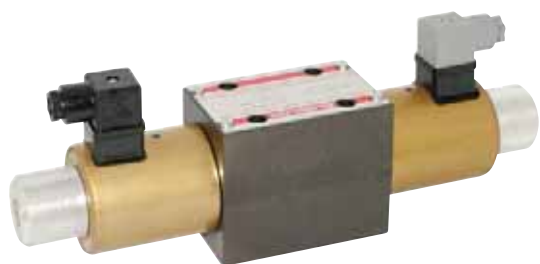
Spool types



WORKING PORTS	No. OF CONTROL SPOOL POSITIONS	SPOOL TYPES	OPERATING PRESSURE		12V PART NUMBER	24V PART NUMBER
			PORTS P, A, B	PORTS T		
4	3	1	350	250	SEV03C2012C	SEV03C2024C
4	2	1A	350	250	SEV03C2B012C	SEV03C2B024C
4	2	1B	350	250	KV031B12V	KV031B24V
4	3	2	350	250	SEV03C6012C	SEV03C6024C
4	2	2A	350	250	SEV03C6B012C	SEV03C6B024C
4	2	2B	350	250	-	KV032B24V
4	3	3	350	250	SEV03C3012C	SEV03C3024C
4	2	3A	350	250	SEV03C3B012C	SEV03C3B024C
4	2	3B	350	250	KV033B12V	KV033B24V
3	2	41A	350	250	SEV03B20012C	SEV03B20024C
3	2	41B	350	250	KV0341B12V	KV0341B24V
4	2	51A	350	250	SEV03B2012C	SEV03B2024C
4	2	51B	350	250	SEV03B2S012C	SEV03B2S024C
4	3	6	350	250	SEV03C4012C	SEV03C4024C
4	2	6A	350	250	SEV03C4B012C	SEV03C4B024C
4	2	6B	350	250	KV036B12V	KV036B24V
4	2	81	350	250	SEV03D2B012C	SEV03D2B024C

Note: Specialised variations are available. Contact our Sales Staff if the requirements of the value you need does not appear in this table.

Also available in 110V-AC and 230V-AC.

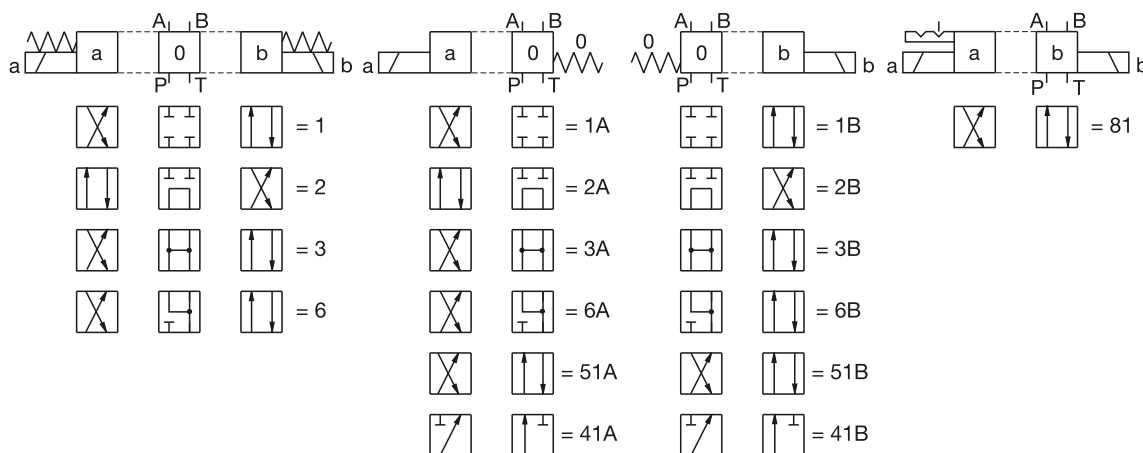


Cetop 05 Directional Solenoid Valve

Direct operation by solenoid
 5 chamber model with good spool guidance
 Optimized flow paths for low losses of pressure
 Wet pin solenoid with interchangeable coil
 Manual emergency control

Maximum pressure: 350 bar
 Maximum flow rate: 100 lpm
 Oil temperature range: -20° to +70°C
 Viscosity range: 15 to 380 mm²/s

Spool types



WORKING PORTS	No. OF CONTROL SPOOL POSITIONS	SPOOL TYPES	OPERATING PRESSURE		12V PART NUMBER	24V PART NUMBER
			PORTS P, A, B	PORTS T		
4	3	1	350	250	SEV05C2012C	SEV05C2024C
4	2	1A	350	250	SEV05C2B012C	SEV05C2B024C
4	2	1B	350	250	KV051B12V	KV051B24V
4	3	2	350	250	SEV05C6012C	SEV05C6024C
4	2	2A	350	250	SEV05CB6012C	SEV05CB6024C
4	2	2B	350	250	KV052B12V	KV052B24V
4	3	3	350	250	SEV05C3012C	SEV05C3024C
4	2	3A	350	250	SEV05C3B012C	SEV05C3B024C
4	2	3B	350	250	KV053B12V	KV053B24V
3	2	41A	350	250	SEV05B20012C	SEV05B20024C
3	2	41B	350	250	KV0541B12V	KV0541B24V
4	2	51A	350	250	KV0551A12V	KV0551A24V
4	2	51B	350	250	SEV05B2S012C	SEV05B2S024C
4	3	6	350	250	SEV05C4012C	SEV05C4024C
4	2	6A	350	250	SEV05C4B012C	SEV05C4B024C
4	2	6B	350	250	KV056B12V	KV056B24V
4	2	81	350	250	SEV05D2B012C	SEV05D2B024C

Note: Specialised variations are available. Contact our Sales Staff if the requirements of the value you need does not appear in this table.

Also available in 110V-AC and 230V-AC.



Single Subplate

Max Work Pressure: 310 bar
 Connection: Side ports

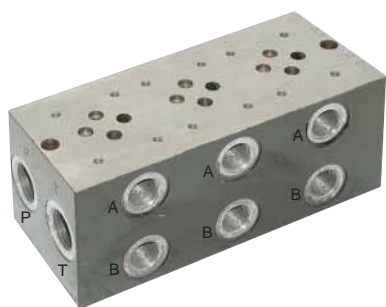
No.	BANKS	FLOW	PORTS	PORT LAYOUT	PART NUMBER
1	1	35 lpm	3/8" BSP	A + T + B + P	ES3DL38L1
2	1	60 lpm	1/2" BSP	A + B / P + T	ES5B12LLY



Single Subplate c/w Relief Valve

Max Work Pressure: 220 bar
 Connection: P + T Bottom, A + B Side

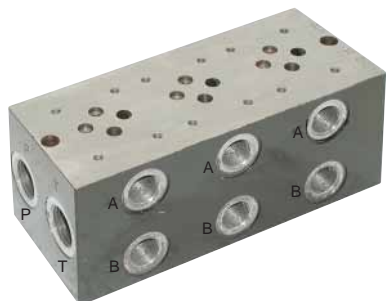
BANKS	FLOW	PORTS	PORT LAYOUT	PRESSURE GAUGE PORT	PART NUMBER
1	35 lpm	3/8" BSP	A + T + B + P	1/4" BSP	PBL6VMP
1	60 lpm	1/2" BSP	A + B / P + T	1/4" BSP	PBL10VMP



Cetop 03 Multi Subplate

Max Flow: 40 lpm
 Max working pressure: 310 bar

TYPE	BANKS	LENGTH	PORTS		PART NUMBER
			A, B	P, T	
GZ	1	70mm	3/8" BSP	1/2" BSP	MR31GZ
GZ	2	120mm	3/8" BSP	1/2" BSP	MR32GZ
GZ	3	170mm	3/8" BSP	1/2" BSP	MR33GZ
GZ	4	220mm	3/8" BSP	1/2" BSP	MR34GZ
GZ	5	270mm	3/8" BSP	1/2" BSP	MR35GZ
GZ	6	320mm	3/8" BSP	1/2" BSP	MR36GZ
GZ	7	370mm	3/8" BSP	1/2" BSP	MR37GZ
GZ	8	420mm	3/8" BSP	1/2" BSP	MR38GZ



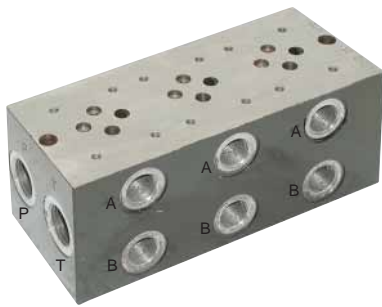
Cetop 03 Multi Subplate with Cartridge Port

Max Flow: 40 lpm
 Max working pressure: 310 bar

TYPE	BANKS	LENGTH	PORTS		PART NUMBER
			A, B	P, T	
GZC	2	120mm	3/8" BSP	1/2" BSP	MR32GZC
GZC	3	170mm	3/8" BSP	1/2" BSP	MR33GZC
GZC	4	220mm	3/8" BSP	1/2" BSP	MR34GZC
GZC	5	270mm	3/8" BSP	1/2" BSP	MR35GZC
GZC	6	320mm	3/8" BSP	1/2" BSP	MR36GZC
GZC	7	370mm	3/8" BSP	1/2" BSP	MR37GZC
GZC	8	420mm	3/8" BSP	1/2" BSP	MR38GZC

Cetop 05 Multi Subplate

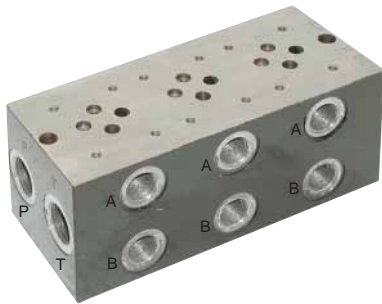
Max Flow: 60 lpm
Max Working Pressure: 310 bar



TYPE	BANKS	LENGTH	PORTS			PART NUMBER
			A, B	P	T	
GZ	1	80mm	1/2" BSP	3/4"	1"	MR51GZ
GZ	2	160mm	1/2" BSP	3/4"	1"	MR52GZ
GZ	3	240mm	1/2" BSP	3/4"	1"	MR53GZ
GZ	4	320mm	1/2" BSP	3/4"	1"	MR54GZ
GZ	5	400mm	1/2" BSP	3/4"	1"	MR55GZ
GZ	6	480mm	1/2" BSP	3/4"	1"	MR56GZ
GZ	7	560mm	1/2" BSP	3/4"	1"	MR57GZ
GZ	8	640mm	1/2" BSP	3/4"	1"	MR58GZ

Cetop 05 Multi Subplate with Cartridge Port

Max Flow: 60 lpm
Max Working Pressure: 310 bar



TYPE	BANKS	LENGTH	PORTS			PART NUMBER
			A, B	P	T	
GZC	2	160mm	1/2" BSP	3/4"	1"	MR52GZC
GZC	3	240mm	1/2" BSP	3/4"	1"	MR53GZC
GZC	4	320mm	1/2" BSP	3/4"	1"	MR54GZC
GZC	5	400mm	1/2" BSP	3/4"	1"	MR55GZC
GZC	6	480mm	1/2" BSP	3/4"	1"	MR56GZC
GZC	7	560mm	1/2" BSP	3/4"	1"	MR57GZC
GZC	8	640mm	1/2" BSP	3/4"	1"	MR58GZC



KLADIMAR

Fixing Screws to mount Cetop Directional Solenoid Valves

DESCRIPTION	SIZE	SET QTY	PART NUMBER
Fixing set for NS 6 Cetop 03 valves	M5x30	4	KV03



SATURN

Fixing Screws to mount Cetop Directional Solenoid Valves

DESCRIPTION	SIZE	SET QTY	PART NUMBER
Fixing set for NS 6 Cetop 03 valves	M5x45	4	SEV9545
Fixing set for NS 10 Cetop 05 valves	M6x40	4	SEV9640



Fixing Screws to mount Cetop Additions

DESCRIPTION	SIZE	SET QTY	PART NUMBER
Fixing set for NS 6 Cetop 03 valves	M5x45	4	SEV9545
Fixing set for NS 6 Cetop 03 valves	M5x70	4	SEV9570
Fixing set for NS 6 Cetop 03 valves	M5x85	4	SEV9585
Fixing set for NS 10 Cetop 05 valves	M6x40	4	SEV9640
Fixing set for NS 10 Cetop 05 valves	M6x90	4	SEV9690
Fixing set for NS 10 Cetop 05 valves	M6x100	4	SEV96100



Cetop Relief Valve Cartridge

LENGTH	B	FLOW	BODY HEX SIZE	MAX PRESSURE	FEATHER RANGE	TORQUE	TO SUIT CETOP VALVE	PART NUMBER
87.2	31.8	76 lpm	25.4	207 bar	41-248 bar	47-54 Nm	03	CP2001B0AC
105	44.5	151 lpm	31.8	207 bar	41-248 bar	115-122 Nm	05	CP2011B0AC



Cavity Plug to suit Cetop 03 Manifold

TO SUIT CETOP VALVE	PART NUMBER
03	CP9310280



Unloader Valve 2/2 Cartridge Type Less Solenoid

TO SUIT CETOP VALVE	PART NUMBER
03	SVP10NO00B00
05	CP5012B0NO



Solenoid Coil for Cetop 03

TO SUIT CETOP VALVE	VOLTAGE	PART NUMBER
03	12V DC	SD9M1612D26WDN
03	24V DC	SD9M1624D26WDN

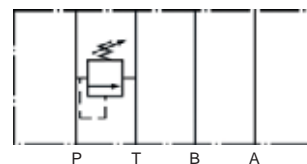
Solenoid Coil for Cetop 05

TO SUIT CETOP VALVE	VOLTAGE	PART NUMBER
05	12V DC	CP95012
05	24V DC	CP95024
05	110V AC	CP950110
05	220V AC	CP950220



Cetop Pressure Relief Valve

	CETOP03	CETOP05
Flow Rate:	60 lpm	100 lpm
Pressure Range:	40-250 bar	20-210 bar
Max Pressure:	320 bar	320 bar
Thickness:	40mm	50mm

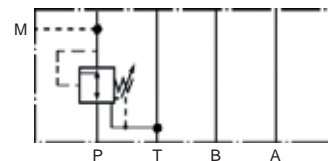


TO SUIT CETOP VALVE	PART NUMBER
03	SMRF03P3
05	SMRF05P3



Cetop Pressure Reducing Valve

	CETOP03	CETOP05
Flow Rate:	60 lpm	80 lpm
Pressure Range:	60-280 bar	10-210 bar
Max Pressure:	320 bar	320 bar
Thickness:	40mm	50mm

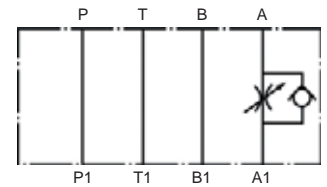


TO SUIT CETOP VALVE	PART NUMBER
03	SMPR03P3
05	SMPR05P3



Cetop Throttle Check Valve Free Return

	CETOP03	CETOP05
Flow Rate:	60 lpm	100 lpm
Throttle Port:	A	A
Max Pressure:	320 bar	320 bar
Thickness:	40mm	50mm

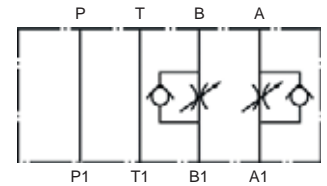


TO SUIT CETOP VALVE	PART NUMBER
03	SMT003A
05	SMT005A



Cetop Throttle Check Valve Controlled Return

	CETOP03	CETOP05
Flow Rate:	60 lpm	100 lpm
Throttle Port:	A	A
Max Pressure:	320 bar	320 bar
Thickness:	40mm	50mm

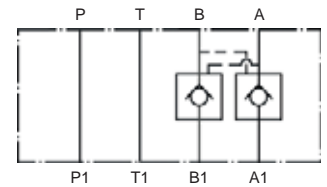


TO SUIT CETOP VALVE	PART NUMBER
03	SMT003W
05	SMT005W



Cetop Double Pilot Check Valve

	CETOP03	CETOP05
Flow Rate:	60 lpm	100 lpm
Max Pressure:	320 bar	320 bar
Thickness:	40mm	50mm

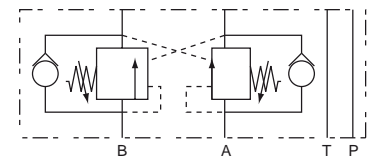


TO SUIT CETOP VALVE	PART NUMBER
03	SMPC03W
05	SMPC05W

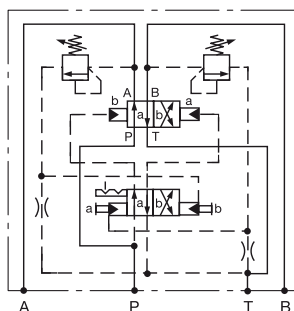


Cetop Counter Balance Valve

	CETOP03	CETOP05
Flow Rate:	50 lpm	70 lpm
Pressure Range:	50-250 bar	50-250 bar
Max Pressure:	250 bar	250 bar
Thickness:	64mm	80mm



TO SUIT CETOP VALVE	PART NUMBER
03	VODLML03
05	VODLML05



Cetop Auto Reciprocating Valve

	CETOP03	CETOP05
Flow Rate:	25 lpm	70 lpm
Change Over Pressure:	50-210 bar	50-210 bar
Max Pressure:	210 bar	210 bar
Thickness:	46mm	60mm

TO SUIT CETOP VALVE	PART NUMBER
03	PKV6
05	PKV10



Electric Stackable Valves

- Convenient, compact and lightweight.
- Ideal electric valves for hydraulic systems up to 40 litres per minute.
- Gives you the flexibility of adding or reducing valve slices easily if required
- Supplied in 12V. 24V available on request
- Can be supplied in components or assembled in our workshop to your requirements.


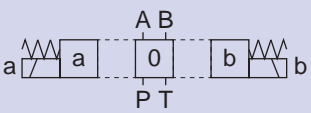
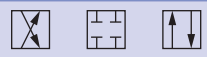




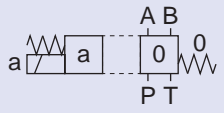
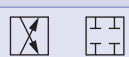

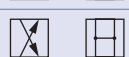
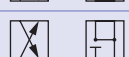
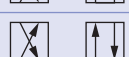
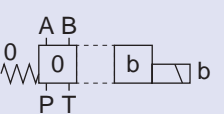
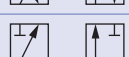







2 & 3 Position Electric Stackable Valves - 12V

- Direct operation by solenoid
- Optimized flow paths for low losses of pressure
- Manual emergency control

Maximum pressure: 310 bar
 Maximum flow rate: 40 lpm



• 24V versions available on request

TYPE	LAYOUT	SPOOL TYPES	PORTS A & B	PART NUMBER	
 3 Position		E		3/8" BSP	MWE06E12V
		G		3/8" BSP	MWE06G12V
		H		3/8" BSP	MWE06H12V
		J		3/8" BSP	MWE06J12V
 2 Position		EA		3/8" BSP	MWE06EA12V
		GA		3/8" BSP	MWE06GA12V
		HA		3/8" BSP	MWE06HA12V
		JA		3/8" BSP	MWE06JA12V
		D		3/8" BSP	MWE06D12V
		A		3/8" BSP	MWE06A12V
		EB		3/8" BSP	MWE06EB12V
		GB		3/8" BSP	MWE06GB12V
		HB		3/8" BSP	MWE06HB12V
		JB		3/8" BSP	MWE06JB12V
 2 Position lockable	Slave / unloader valve with dual Open / Closed centre function. Can be used on both open centre or closed centre systems by means of locking device on slave valve	HA		3/8" BSP	MWE06HA12VLD
		 Replacement locking device for MWE06HA slave valve	-	-	-



Inlet Plate to suit Stackable Valves

PORTS		MAXIMUM FLOW RATE	MAXIMUM PRESSURE	PART NUMBER
P, T	M			
3/8"	1/4"	50 lpm	315 bar	PMWE6



Outlet Plate to suit Stackable Valves

PORTS	MAXIMUM FLOW RATE	MAXIMUM PRESSURE	PART NUMBER
T			
3/8"	50 lpm	210 bar	TMWE6



Bolt & Mounting sets to suit Stackable Valves

Note: Torque @ 22 Nm

DESCRIPTION	PART NUMBER
Bolt and mounting set for 1 stackable valve	TMWE61
Bolt and mounting set for 2 stackable valve	TMWE62
Bolt and mounting set for 3 stackable valve	TMWE63
Bolt and mounting set for 4 stackable valve	TMWE64
Bolt and mounting set for 5 stackable valve	TMWE65
Bolt and mounting set for 6 stackable valve	TMWE66
Bolt and mounting set for 7 stackable valve	TMWE67
Bolt and mounting set for 8 stackable valve	TMWE68
Bolt and mounting set for 9 stackable valve	TMWE69

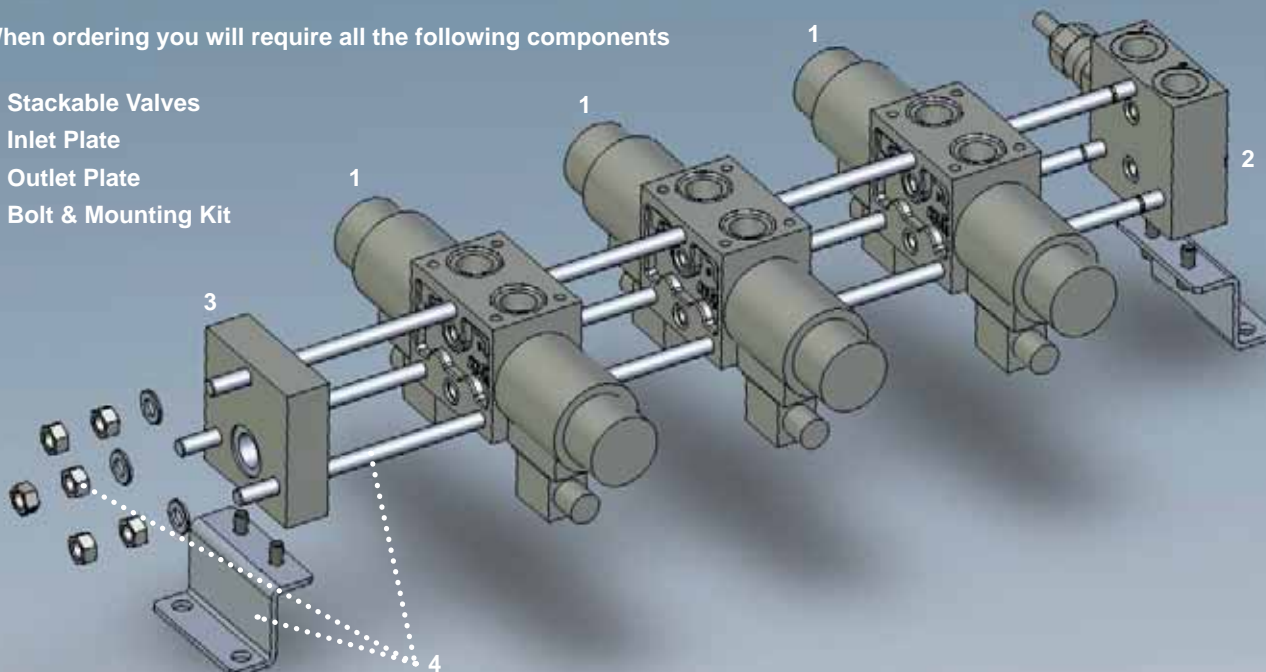


Plug to suit Stackable Valves (Spool Plug)

DESCRIPTION	PART NUMBER
Plug to suit stackable valves - spool plug	MWE06PLUG


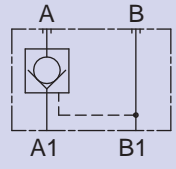

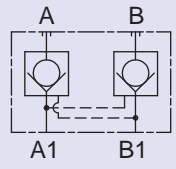
When ordering you will require all the following components

1. Stackable Valves
2. Inlet Plate
3. Outlet Plate
4. Bolt & Mounting Kit




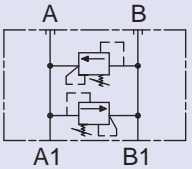
Modular Pilot Check Valves for Stackable Valves

• Supplied with Bolts

TYPE	MAX FLOW	MAX PRESSURE	SYMBOL	PART NUMBER
	40 lpm	315 bar		MCV06A
	40 lpm	315 bar		MCV06AB


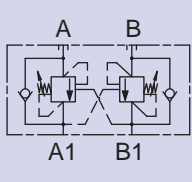
Modular Relief Valve for Stackable Valves

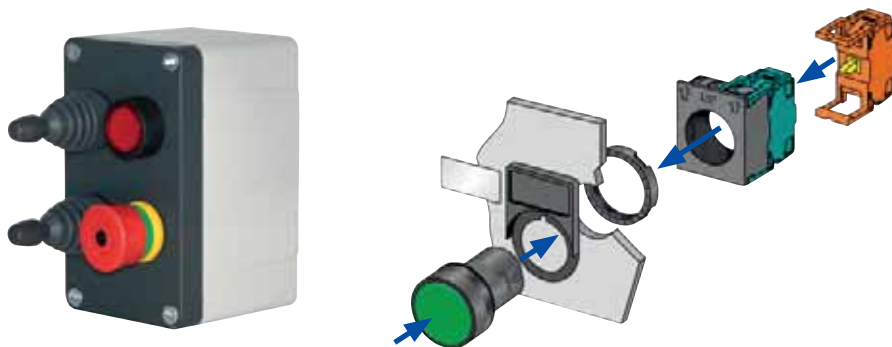
• Supplied with Bolts

TYPE	MAX FLOW	MAX PRESSURE	SYMBOL	PART NUMBER
	40 lpm	315 bar		MPV06AB

Modular Counterbalance Valve for Stackable Valves

• Supplied with Bolts

TYPE	MAX FLOW	MAX PRESSURE	SYMBOL	PART NUMBER
	40 lpm	315 bar		MOV06AB



Note: To make up a complete switch box you will need to choose the relevant items from Steps 1 - 5

Step 1

Switch Enclosure								
	No. OF HOLES	1	2	3	3	4	5	6
PART NUMBER	C08088P1	C08148P2	C08148P3C	C08208P3	C08148P4	C08208P5C	C08208P6	C08268P8

Step 2

Buttons						
	PUSH BUTTON	ILLUMINATED PUSH BUTTON SPRING BACK	ILLUMINATED PUSH BUTTON STAY PUT	SELECTOR ON / OFF	ILLUMINATED SELECTOR ON / OFF	SELECTOR ON / OFF / ON
BLACK	020PTAINK	-	-	020STAMANK	020STAMONK	020STAMONK
RED	020PTAIRK	020PTAILRK	020PPTAILRW	020STAMARK	020STAMLARK	020STAMORK
GREEN	020PTAIVK	020PTAILVK	020PPTAILVK	020STAMAVK	020STAMLAVK	020STAMOVK
YELLOW	020PTAIGK	020PTAILGK	020PPTAILGK	020STAMAGK	020STAMALGK	020STAMOGK
BLUE	020PTAIBLK	020PTAILBLK	020PPTAILBLK	020STAMABLK	020STAMALBLK	020STAMOBLK
ORANGE	020PTAIK	020PTAILK	020PPTAILK	-	020STAMALK	-

Buttons		
	INDICATOR LIGHTS	EMERGENCY STOP
BLACK	-	-
RED	020LMR	020PTAR
GREEN	020LMV	-
YELLOW	020LMG	-
BLUE	020LMBL	-
ORANGE	020LMA	-



Joysticks			
P = Permanent T = Temporary			
NUMBERS OF POSITIONS	POSITIONS	JOYSTICK	
2	↕	P P - -	020MT2P
2		T T - -	020MT2T
2	↕	P T - -	020MT1P1T
4		P P P P	020MT4P
4		T T T T	020MT4T
4		P P T T	020MT2P2T

Continued on the next page . . .

... continued

Step 3

Fixing Adaptor

		
	FIXING ADAPTOR	FIXING ADAPTOR
Push buttons	020G	-
Illuminated push buttons	-	020PD9
12V Bulb to suit	-	288GL
24V Bulb to suit	-	289GL

Step 3 (b)
(optional)

Label Mount

	
	LABEL MOUNT
Blank label mount	020ST



Step 4

Contact Elements

		
	NORMALLY OPEN	NORMALLY CLOSED
ALL BUTTONS	020E10	020E01

Step 5

Cable Gland & Nuts

		
	CABLE GLAND	GLAND NUT
TO SUIT CABLE		
5-7mm	PG7W	PG7M
6-8mm	PG9W	PG9M
12-14mm	PG16W	PG16M



Electric Control Switch for Cetop Valves

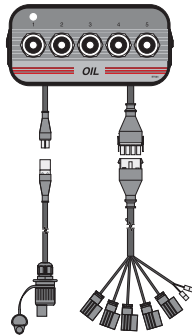
No. OF POSITIONS	POSITION 1	POSITION 2	POSITION 3	POSITION 4	PART NUMBER
2	P	P	-	-	MPPN
2	T	P	-	-	MTPN
2	T	T	-	-	MTTN
4	P	P	P	P	MPPPPN
4	P	P	P	T	MPPPTN
4	P	T	T	P	MPTTPN
4	P	T	P	T	MPTPTN
4	P	P	T	T	MPPTTN
4	P	T	T	T	MPTTTN
4	T	T	P	T	MTTPTN
4	T	T	T	T	MTTTN

P = Permanent T = Temporary

Type 1



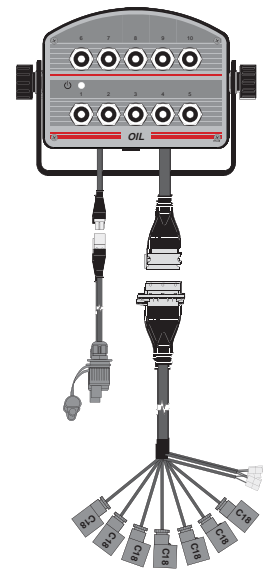
Up to 5 Switches



Type 2

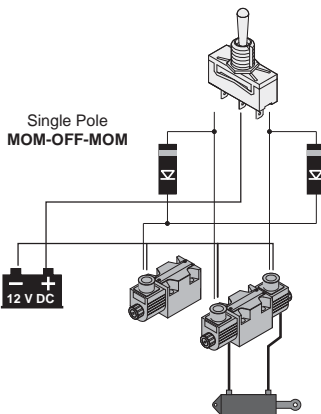




Up to 10 Switches



Switch Box Kit for use with Hydraulic Valves requiring Slave / Unloader

- Completely pre-wired and ready-to-fit
- Available with 1 to 10 switches
- 2 metre supply cable with 3 pole plug
- 4 metre output wiring loom with hirschmann plugs
- Fused (10 amp)
- Operates Slave / Unloader valve with each function
- Optional suction mount available for type 1 switch box (see page 92d)

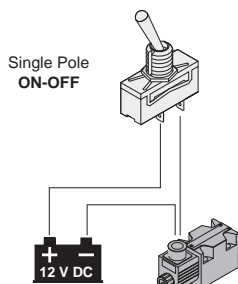



TYPE	DESCRIPTION	SWITCHES	PART NUMBER	
	Complete switch box & wiring	2 x MOM - OFF - MOM	SAL911206	
		3 x MOM - OFF - MOM	SAL911306	
		1 x ON - OFF - ON	SAL911321	
		2 x MOM - OFF - MOM	SAL911408	
		4 x MOM - OFF - MOM	SAL911408	
		1 x ON - OFF - ON	SAL911432	
		3 x MOM - OFF - MOM	SAL911507	
		5 x MOM - OFF - MOM	SAL911507	
	Complete switch box & wiring	1 x ON - OFF - ON	SAL911514	
		4 x MOM - OFF - MOM	SAL911514	
		Replacement switch gear board 1-5 switches		SAL405138
		6 x MOM - OFF - MOM	SAL911617	
		7 x MOM - OFF - MOM	SAL911725	
		8 x MOM - OFF - MOM	SAL911813	
		9 x MOM - OFF - MOM	SAL911917	
		10 x MOM - OFF - MOM	SAL9111002	
Replacement switch gear board 1-10 switches		SAL405558		

Switches can be substituted to suit your requirements.
See page 92d for full list of switches available

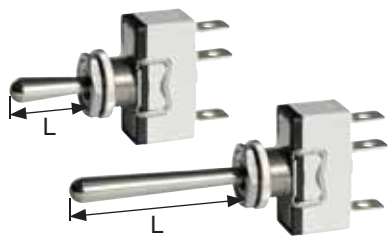
Switch Box Kit for use with Hydraulic Valves not requiring Slave / Unloader

- Completely pre-wired and ready-to-fit
- Available with 1 to 5 switches
- 2 metre supply cable with 3 pole plug
- 4 / 6metre output wiring loom with hirschmann plugs
- Fused (10 amp)
- Optional suction mount available for type 1 switch box (see page 92d)





TYPE	DESCRIPTION	OUTPUT LOOM	SWITCHES	PART NUMBER
	Complete switch box & wiring	4 metre	2 x ON - OFF	SAL911210
		6 metre	2 x ON - OFF	SAL911218
		4 metre	3 x ON - OFF	SAL911317
		4 metre	4 x ON - OFF	SAL911427
		4 metre	5 x ON - OFF	SAL911518

Switches can be substituted to suit your requirements.
See page 92d for full list of switches available



Switches to suit Switch Boxes

TYPE	FUNCTION	L	POSITIONS	PART NUMBER
	ON - OFF - ON	17.5	3	SAL400401
	MOM - OFF - MOM	17.5	3	SAL400459
	ON - OFF	17.5	2	SAL400466
	MOM - OFF - ON	17.5	3	SAL400476
	ON - OFF	40	2	SAL400481
	MOM - OFF - MOM	40	3	SAL400465

Note: ON = Permanent OFF = Momentary

Rubber Boot to suit SAL400 Switch

- Suitable for 17.5mm switch only





DESCRIPTION	PART NUMBER
Rubber boot to suit 17.5mm SAL400 switch	SAL400565



Extensions Cable to suit Switch Boxes

- Extension cables have a male connection on one end and a female on the other

TO SUIT	CONNECTION TYPE	LENGTH	PART NUMBER
	Mate-N-Lok	3 metres	SAL91904903
		6 metres	SAL91904906
		10 metres	SAL91904910
	FCI Sicma	1 metre	SAL91907701
		3 metres	SAL91907703
		5 metres	SAL91907705
		9 metres	SAL91907709



Universal Suction Mount

- Suitable for Switch Box Type 1 (see page 92c)
- Supplied with fitting screws

DESCRIPTION	PART NUMBER
Universal suction mount to suit switch box type 1	RAMB2241U



Switch Loom Assembly

- 15A Fuse
- Fused cable: 2 metres (2x1.5)
- Connection cable: 5 metres (2x1.5)

DESCRIPTION	PART NUMBER
Switch loom assembly	SAL906256



Switch Loom Assembly

- Plug cable: 1 metres (2x1.5)
- Solenoid cable: 11 metres (2x1.5)

DESCRIPTION	PART NUMBER
Switch loom assembly c/w plugs	SAL90625604



6 Button Joystick Control Kit

- Joystick with 10mm female thread
- Controls 3 x electric valves plus slave
- Supplied with 4 metre fully wired harness

DESCRIPTION	PART NUMBER
Button joystick control kit	SAL921073

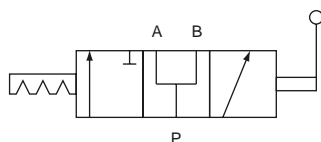


Replacement Solenoid Coils

TYPE	Ø	LENGTH	TO SUIT	VOLTAGE	PART NUMBER	
	16mm	50mm	03 Cetop Cartridge Valves	12V DC	SD9M1612D26WDN	
				24V DC	SD9M1624D26WDN	
	16mm	52mm	05 Cetop Cartridge Valves	12V DC	CP95012	
				24V DC	CP95024	
				110V AC	CP950110	
				220V AC	CP950220	
	19mm	56mm	to suit INTERTRACO	12V	SV38S	
	21mm	52mm	to suit (Old Type) BADESTNOST 3/8"	12V	DV6S12VS	
				24V	DV6S24VS	
	23mm	50mm	to suit (NewType) BADESTNOST 3/8"	12V	DV6S12VS-1	
				24V	DV6S24VS-1	
	22mm	53mm	to suit KLADIVAR, SATURN 03 (3/8")	12V DC	6KVH06012	
				24V DC	6KVH06024	
				110V AC	MR0450110AC	
	31mm	72mm	to suit KLADIVAR, SATURN, BADESTNOST, NIMCO 05 (1/2")	230V AC	MR0450230AC	
				12V DC	SVV9012VS	
				24V DC	SVV9024VS	
				110V AC	MR0600110AC	
	23mm	54mm	WALVOIL DFE053001 (Old Type)	12V	DFE905212	
				24V	DFE905224	
	22.3mm	58mm	WALVOIL DFE053001 (NewType)	12V	DFE90512	
				24V	DFE90524	
	25.5mm	78mm	WALVOIL DFE103003	12V	DFE91012	
				24V	DFE91024	
		13mm	39mm	EV Check Valves 1/4", 3/8" and 1/2"	12V DC	EV40SC12
					24V DC	EV40SC24
	13mm	37mm	To suit SPX powerpacks	12V	EF1080	
				24V	EF1085	
	23mm	50mm	MWE Electric Stackable Valves 3/8"	12V DC	MWE06COIL12V	
				24V DC	MWE06COIL24V	
	21mm	-	Tube & nut to suit (Old Type) BADESTNOST BSV38	-	BSV38TUBE	
	23mm	-	Tube & nut to suit (New Type) BADESTNOST BSV38	-	BSV38TUBE-1	
	-	-	Plastic nut to suit BSV38	-	BSV38NUT	
	-	-	Plastic nut to suit BSV12	-	BSV12NUT	

**Electric Socket to suit Solenoid Coils**

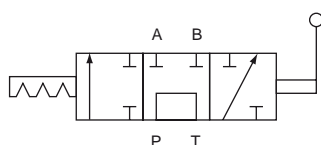
	PART NUMBER
Standard 3 pin socket	SP666
3 pin socket c/w led (12-24V)	SP777
3 pin socket c/w bridge rectifier (12-230V)	SP999



2 Way Divertor Valve

The HV12, two-way divertor valve has a compact design and its rotary design means it is ideal for controlling a single acting cylinder or motor. It can also act as a two-way divertor to switch oil flow at port P to port A or B.

DESCRIPTION	PORTS	MAX FLOW RATE	MAX WORK PRESSURE	MATERIAL	PART NUMBER
3 Port manual divertor valve	3/8" BSP	60 lpm	315 bar	Cast Iron	HV1238CAST
	1/2" BSP	90 lpm	280 bar	Cast Iron	HV1212CAST
	3/4" BSP	120 lpm	220 bar	Cast Iron	HV1234CAST



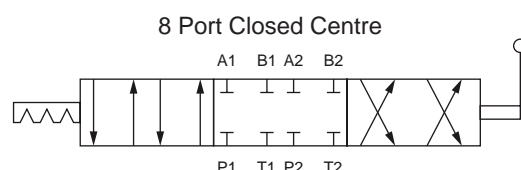
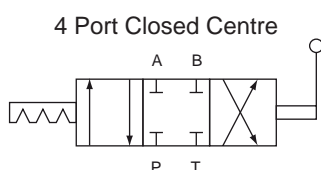
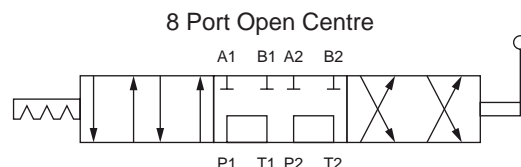
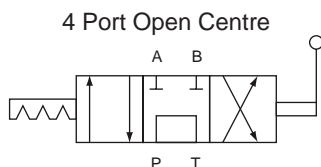
3 Way Divertor Valve

The HV13 is an economical three position rotary valve with a detent located centre position. It can be used as a three-way divertor to switch the oil supply from ports P to ports T, A or B. The HV13 can be used to control cylinders or motors and has an open centre which allows the pump to be unloaded in the centre position. Used in conjunction with a tractor control valve the HV13 can operate three single acting cylinders or motors.

DESCRIPTION	PORTS	MAX FLOW RATE	MAX WORK PRESSURE	MATERIAL	PART NUMBER
4 Port manual divertor valve	1/2" BSP	60 lpm	210 bar	Cast Iron	HV1312



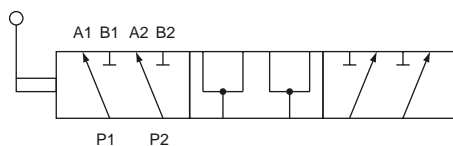
8 Port Shown



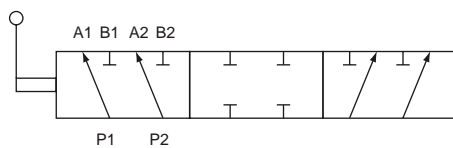
4 / 8 Port Rotary Valve

The HV23 (3/8") and HV24 (1/2") are an economical and compact three position rotary valve which are available in two versions; HV23 or HV24 which unload the pump in the centre position and the HV23CC or HV24CC which is made for use with closed centre hydraulic systems. Either versions can be used to control the movement of double acting hydraulic cylinder or motors. It is also available in an 8 port version.

DESCRIPTION	PORTS	MAX FLOW RATE	MAX WORK PRESSURE	MATERIAL	PART NUMBER
4 Port manual divertor, open centre	3/8" BSP	35 lpm	250 bar	Cast Iron	HV23
	1/2" BSP	50 lpm	250 bar	Cast Iron	HV24
4 Port manual divertor, closed centre	3/8" BSP	35 lpm	250 bar	Cast Iron	HV23CC
	1/2" BSP	50 lpm	250 bar	Cast Iron	HV24CC
8 Port manual divertor, open centre	3/8" BSP	35 lpm	250 bar	Cast Iron	HV2323
	1/2" BSP	50 lpm	250 bar	Cast Iron	HV2424
8 Port manual divertor, closed centre	1/2" BSP	50 lpm	250 bar	Cast Iron	HV2424CC



Open Centre



Closed Centre

6 Port Manual Divertor Valve

Six ported valves can be used in applications where the flow and return from a control valve is used to operate two separate circuits. This allows two double acting cylinders or reversible hydraulic motors to be controlled separately from a single four way valve.

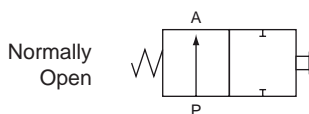
DESCRIPTION	PORTS	MAX FLOW RATE	MAX WORK PRESSURE	MATERIAL	PART NUMBER
6 Port manual divertor valve, open centre	3/8" BSP	60 lpm	315 bar	Cast Iron	D6V38
	1/2" BSP	90 lpm	280 bar	Cast Iron	D6V12
6 Port manual divertor valve, closed centre	3/8" BSP	60 lpm	315 bar	Cast Iron	D6V38CC
	1/2" BSP	90 lpm	280 bar	Cast Iron	D6V12CC



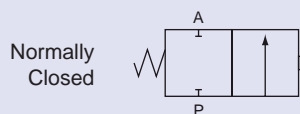
Two Port Divertor Valve to suit Massey Ferguson

The HV25 valve bolts onto a Massey Ferguson tractor in the place of the plate on the hydraulic lift cover. The pressure balance design of the HV25 ensures that the selector can be moved easily when under pressure. The tractor lift linkage is hydraulically locked when either of the two available service ports are selected. The HV25 is the most popular valve in the range of isolator valves.

PORTS	MAX FLOW	MAX PRESSURE	MATERIAL	PART NUMBER
3/8" BSP	27 lpm	210 bar	Cast Iron	HV25



Normally Open



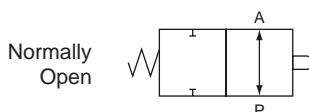
Normally Closed

For normally closed option see V101-38NC (Shown below)

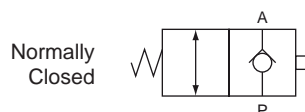
Plunger Valve

Plunger and control options: Normally open trundle bed

PORTS	MAX FLOW	MAX PRESSURE	POSITION	PART NUMBER
3/8" BSP	40 lpm	315 bar	Normally Open	122034010



Normally Open



Normally Closed

Plunger Valve

PORTS	MAX FLOW	MAX PRESSURE	POSITION	PART NUMBER
3/8" BSP	50 lpm	350 bar	Normally Closed	V101-38NC
3/8" BSP	45 lpm	350 bar	Normally Open	V101-38NO

ATTENTION ! This is an emergency brake device IT IS NOT A PARK BRAKE DEVICE !



Emergency Brake Kit (Hydraulic / Mechanical)

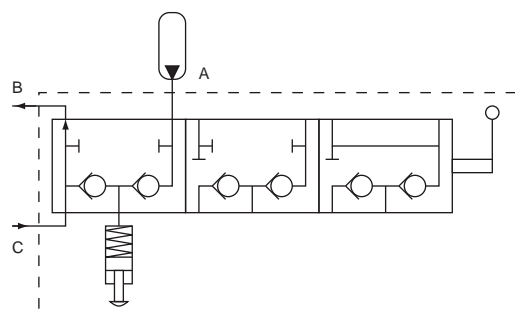
Applies Brakes to Trailer in case of accidental Unhitching or Breakaway

- Contains:
- Hydraulic accumulator
 - Emergency brake valve c/w residual pressure release button
 - Breakaway quick release couplings and fittings

Note: Requires extra hydraulic piping and pull cable

DESCRIPTION	Application	PART NUMBER
Kit c/w 0.7 ltr Accumulator	Single axle trailers	EBK001
Kit c/w 1.0 ltr Accumulator	Single axle trailers	EBK001A
Kit c/w 2.0 ltr Accumulator	Twin axle trailers	EBK002

A = Accumulator
 B = To Brake Actuator
 C = From Tractor Brake Line



Emergency Brake Valve Only

- With residual pressure removal button

DESCRIPTION	PORTS	PART NUMBER
Emergency brake valve	M18x1.5	203121

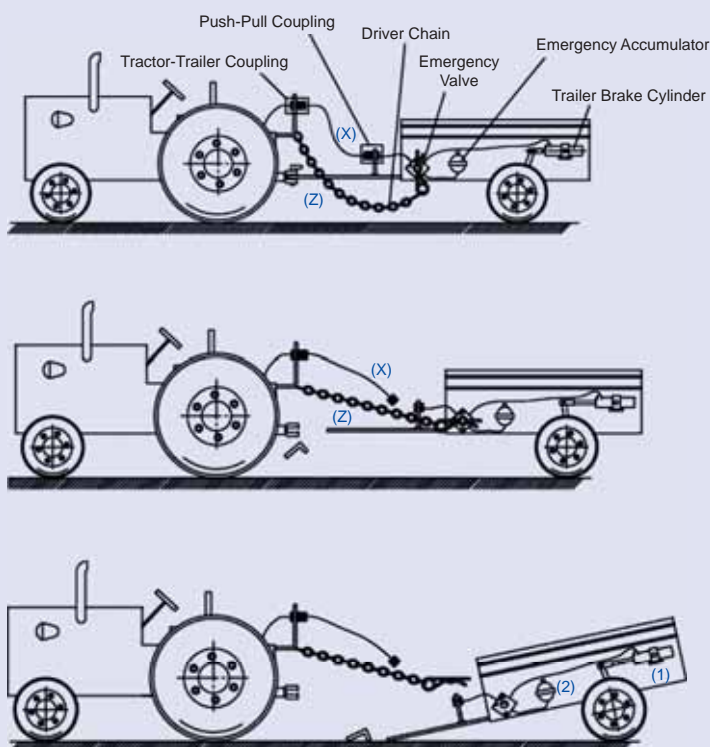
Application Information

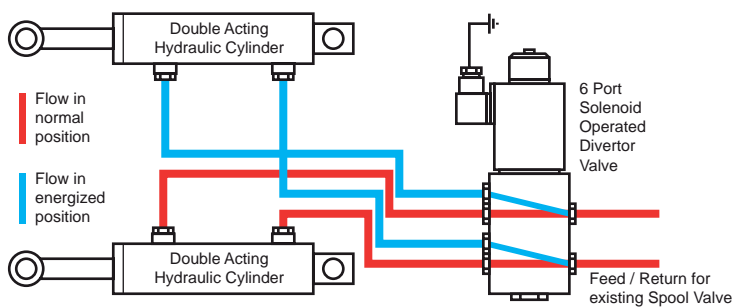
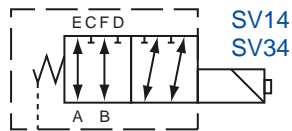
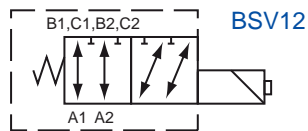
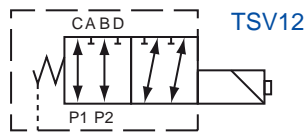
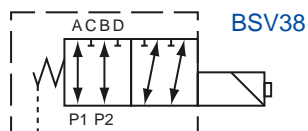
Hydraulic Brake Line(x) is fitted with special Breakaway Coupling to prevent spillage.

Emergency Valve is connected to the tractor by the operator with Cable/Chain(z) (Not supplied)

If the Trailer accidentally detaches, the Hydraulic Line(x) breaks away and the Cable/Chain(z) will engage the Emergency Valve

(1) As the Trailer detaches, the Brake Actuators are automatically applied with pressure from the (2) on-board Accumulator, which stops the Trailer safely.





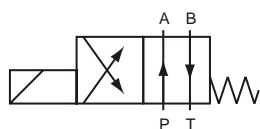
6 Port Solenoid Operated Diverter Valve (Double Acting) with Manual Override

Note: Replacement coils listed on Page 93

TYPE	PORTS	FLOW	PRESS. MAX.	FINISH	SOCKET INCLUDED	STACKING O' RINGS	VOLTAGE	PART NUMBER
1	1/4" BSP	25 lpm	200 bar	Aluminium	No - See P93	N/A	12V DC	SV14
							24V DC	SV1424V
2	3/8" BSP	50 lpm	210 / 315 bar *Note	Zinc Passivated	Yes - LED	1 x 217OR 2 x 221OR *Note 2	12V DC	BSV38
							24V DC	BSV3824V
3	1/2" BSP	80 lpm	250 bar	Phosphating surface	No - See P93	-	12V DC	TSV12
2	1/2" BSP	90 lpm	250 bar	Zinc Passivated	Yes - LED	2 x 226OR *Note 2	12V DC	BSV12
							24V DC	BSV1224V
4	3/4" BSP	140 lpm	200 bar	Painted	No - See P93	N/A	12V DC	SV34
							24V DC	SV3424V

*Note: Up to 210 Bar without leak port connected, 315 Bar with leak port connected

*Note 2: O' rings are for Badestnost valves only. Stacking tie rod torque 20Nm max.



KLADIMAF Auto Coupler Solenoid Valve (Quick Hitch)

PORT SIZE	OPERATING PRESSURE		SUPPLY VOLTAGE	PART NUMBER
	PORTS P, A, B	PORTS T		
3/8" BSP	350 bar	250 bar	12V DC	SEV12VHITCH
3/8" BSP	350 bar	250 bar	24V DC	SEV24VHITCH

Note: For replacement coils see Page 93.

Shut-Off Ball Valve to suit Steel Pipe

Light

Heavy



TO SUIT PIPE OD	MAX WORK PRESSURE	PART NUMBER
6mm	400	KHV6L
8mm	400	KHV8L
10mm	400	KHV10L
15mm	400	KHV15L
18mm	400	KHV18L
22mm	250	KHV22L
28mm	250	KHV28L
35mm	250	KHV35L
42mm	210	KHV42L

TO SUIT PIPE OD	MAX WORK PRESSURE	PART NUMBER
8mm	630	KHV8S
10mm	630	KHV10S
12mm	630	KHV12S
14mm	500	KHV14S
16mm	500	KHV16S
20mm	400	KHV20S
25mm	315	KHV25S
30mm	315	KHV30S
38mm	315	KHV38S

Threaded Shut-Off Ball Valve

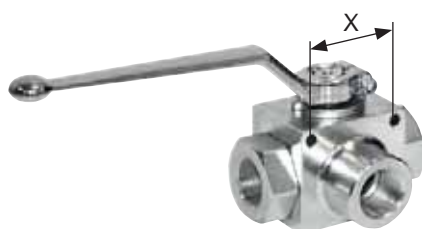
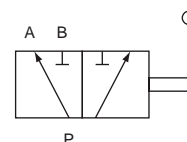


THREAD	MAX WORK PRESSURE	PART NUMBER
1/8" BSP	500 bar	KHR18
1/4" BSP	500 bar	KHR14
3/8" BSP	500 bar	KHR38
1/2" BSP	500 bar	KHR12
3/4" BSP	400 bar	KHR34
1" BSP	350 bar	KHR1
1 1/4" BSP	350 bar	KHR114
1 1/2" BSP	350 bar	KHR112
Replacement handle to suit KHR38 and KHR 12		KH909B

3-Way Threaded Shut-Off Ball Valve



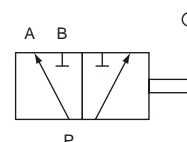
THREAD	MAX WORK PRESSURE	PART NUMBER
3/8" BSP	400 bar	KHR38-3
1/2" BSP	350 bar	KHR12-3

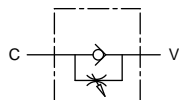


3-Way Threaded Shut-Off Ball Valve - Mountable

- X = Hole centre to centre: 50mm
- Bolt hole size: 6.25mm

THREAD	MAX WORK PRESSURE	PART NUMBER
3/4" BSP	400 bar	KHR34-3M





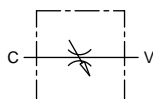
Flow Regulator Valve - One Way

This valve is used to adjust flow speed of actuators in one direction, flow is free in the reverse one. As pressure compensation is not provided, flow adjustment depends on pressure and fluid viscosity. High adjustment sensitivity.



Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard

PORTS	MAX FLOW	MAX PRESSURE	PART NUMBER
1/4" BSP	15 lpm	350 bar	DRV03001
3/8" BSP	30 lpm	350 bar	DRV05001
1/2" BSP	50 lpm	350 bar	DRV10001
3/4" BSP	80 lpm	280 bar	DRV20001



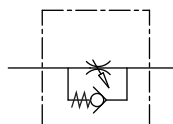
Flow Regulator Valve - Two Way

This valve is used to adjust flow speed of actuators in both directions. As pressure compensation is not provided, flow adjustment depends on pressure and fluid viscosity. High adjustment sensitivity.



Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard

PORTS	MAX FLOW	MAX PRESSURE	PART NUMBER
1/4" BSP	15 lpm	350 bar	DV03001
3/8" BSP	30 lpm	350 bar	DV05001
1/2" BSP	50 lpm	350 bar	DV10001
3/4" BSP	80 lpm	280 bar	DV20001



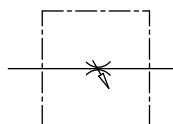
FPMU Flow Throttling Valve - One Way

This flow throttling valve with external ring (no graduation) is fitted with a non-return valve. It allows free flow from A to A1. The steel housing is fitted with cylindrical threaded BSP-ports. Suited for in-line mounting with lack of room.



Design: Coarse adjustment
 Application: High flow and high pressure
 To be used for: Flow throttling valve

PORTS	MAX FLOW	OPENING PRESSURE	MAX PRESSURE	PART NUMBER
1/4" BSP	12 lpm	0.5 bar	350 bar	FPMU03001
3/8" BSP	30 lpm	0.5 bar	350 bar	FPMU05001
1/2" BSP	45 lpm	0.5 bar	310 bar	FPMU10001
3/4" BSP	85 lpm	0.5 bar	280 bar	FPMU20001
1" BSP	150 lpm	0.5 bar	250 bar	FPMU25001



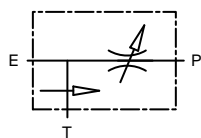
FBMB Flow Throttling Valve - Two Way

This flow throttling valve reduces the oil from A to A1 and from A1 to A by turning the external ring (no graduation). The steel housing is fitted with cylindrical threaded BSP ports. Suited for in-line mounting with lack of room.



Design: Coarse adjustment
 Application: High flow and high pressure
 To be used for: Flow throttling valve

PORTS	MAX FLOW	OPENING PRESSURE	MAX PRESSURE	PART NUMBER
1/4" BSP	12 lpm	0.5 bar	350 bar	FBMB03001
3/8" BSP	30 lpm	0.5 bar	350 bar	FBMB05001
1/2" BSP	45 lpm	0.5 bar	310 bar	FBMB10001
3/4" BSP	85 lpm	0.5 bar	280 bar	FBMB20001
1" BSP	150 lpm	0.5 bar	250 bar	FBMB25001



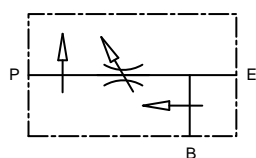
3 Port Flow Control Valve Excess to Tank

Used in line applications requiring precise speed control in addition to the stop, start and reverse functions of a directional control valve. Applications include hydraulic motors for winches, conveyors, mobile hydraulic equipment and also for controlling the speed of rams. Excess flow is drained directly in T (tank).



Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard
 Tightness: By diameter combination. Minor leakage (few drops per minute)

PORTS	MAX INLET FLOW	MAX ADJUSTMENT FLOW	MAX PRESSURE	PART NUMBER
3/8" BSP	50 lpm	30 lpm	250 bar	RFP338
1/2" BSP	85 lpm	50 lpm	250 bar	RFP312



3 Port Flow Control Valve Ongoing Pressure Line

The valve enables you to keep "P" flow constant to a certain setting, independently of the required pressure or the inlet flow of the valve. Exceeded flow is drained by "B" and it is available for a second use. Also port "B" is insensitive to pressure changes but not to flow changes.



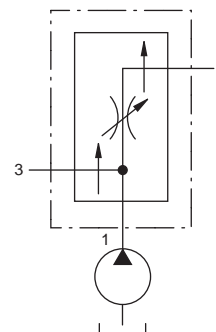
Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard

PORTS	MAX INLET FLOW	MAX ADJUSTMENT FLOW	MAX PRESSURE	PART NUMBER
3/8" BSP	50 lpm	40 lpm	250 bar	VPR338
1/2" BSP	85 lpm	60 lpm	250 bar	VPR312
3/4" BSP	150 lpm	90 lpm	210 bar	VPR334
1" BSP	250 lpm	150 lpm	210 bar	VPR31

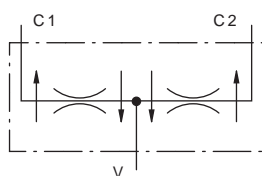


Three Way Priority Flow Regulator Valve

This adjustable 3-way pressure compensated flow control valve (parallel valve) allows flow from 1 to 2 and / or 3. These valves are fitted with a graduated turning knob or with fixed adjustment, which are standard. The in flowing oil into port 1 is delivered to 3 first, independent of the load ($\Delta p = 12\text{bar}$). The excess flow is bypassed via 2 to second circuit (which can be plugged for a two-way function). Suited for in-line mounting.



PORTS	MAX FLOW	MAX PRESSURE	PART NUMBER
3/8" BSP	40 lpm	300 bar	PP10001
1/2" BSP	40 lpm	300 bar	PP12001

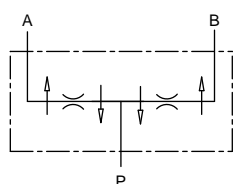


Aluminium Flow Divider

This valve allows the division of inlet flow into two equal parts (50/50) and they unify it in the reverse direction irrespective of any pressure differences and flow. They are used when two equal actuators, supplied by the same pump and controlled by a single distributor, must move simultaneously both at input and output e.g. Tail lift.

Body: Aluminium

PORTS V	PORTS C1, C2	FLOW	MAX PRESSURE	PART NUMBER
3/8" BSP	3/8" BSP	7-12 lpm	300 bar	DFR3802
3/8" BSP	3/8" BSP	13-25 lpm	300 bar	DFR3803
1/2" BSP	3/8" BSP	26-40 lpm	300 bar	DFR1204
1/2" BSP	3/8" BSP	40-70 lpm	300 bar	DFR1205
3/4" BSP	1/2" BSP	60-95 lpm	250 bar	DFR3406
1" BSP	3/4" BSP	90-150 lpm	250 bar	DFR1007



Steel Flow Divider

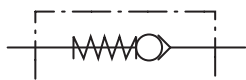
This valve allows the division of inlet flow into two equal parts (50/50) and they unify it in the reverse direction irrespective of any pressure differences and flow. They are used when two equal actuators, supplied by the same pump and controlled by a single distributor, must move simultaneously both at input and output e.g. Tail lift.

Body: Zinc-plated steel

PORTS P	PORTS A, B	FLOW	MAX PRESSURE	PART NUMBER
3/8" BSP	3/8" BSP	6-10 lpm	300 bar	DFL610
3/8" BSP	3/8" BSP	10-20 lpm	300 bar	DFL1020
1/2" BSP	3/8" BSP	25-40 lpm	300 bar	DFL2540
1/2" BSP	3/8" BSP	40-60 lpm	300 bar	DFL4060

Inline Check Valve

Shut-off is effected by a special valve and a nitrile rubber flat seal. In this way a perfect sealing is obtained. Internal components in galvanised and passivated steel. Available with Male or Female threaded ends. The valve with male threads is particularly compact.



Male / Male

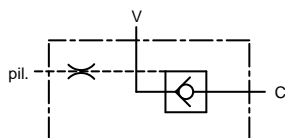
PORTS	MAX FLOW	MAX PRESSURE	CRACKING PRESSURE	PART NUMBER
1/4" BSP	17 lpm	500 bar	0.35 bar	VU14M14M
3/8" BSP	68 lpm	300 bar	0.35 bar	VU38M38M
1/2" BSP	90 lpm	350 bar	0.35 bar	VU12M12M

Female / Female

PORTS	MAX FLOW	MAX PRESSURE	CRACKING PRESSURE	PART NUMBER
1/4" BSP	20 lpm	350 bar	0.40 bar	VU14F14F
3/8" BSP	45 lpm	350 bar	0.40 bar	VU38F38F
1/2" BSP	70 lpm	350 bar	0.40 bar	VU12F12F
3/4" BSP	110 lpm	350 bar	0.40 bar	VU34F34F
1" BSP	160 lpm	350 bar	0.40 bar	VU1F1F

Single Pilot Operated Check Valve

These valves are used to block the cylinder in one direction. The flow is free in one direction and blocked in the reverse direction until the pilot pressure is applied.

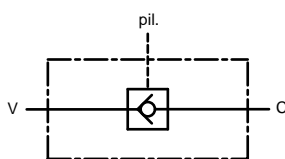


Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard

PORTS	PILOT RATIO	MAX FLOW	MAX PRESSURE	CRACKING PRESSURE	PART NUMBER
1/4" BSP	1 : 8	20 lpm	350 bar	4.0 bar	VBL314
3/8" BSP	1 : 8	40 lpm	350 bar	3.5 bar	VBL338
1/2" BSP	1 : 7	70 lpm	350 bar	3.5 bar	VBL312

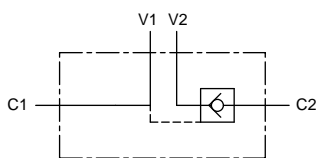
Single Pilot Operated Check Valve

These valves are used to block the cylinder in one direction. The flow is free in one direction and blocked in the reverse direction until the pilot pressure is applied.



Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard

PORTS	PILOT RATIO	MAX FLOW	MAX PRESSURE	CRACKING PRESSURE	PART NUMBER
1/4" BSP	1 : 9.8	15 lpm	350 bar	2.5 bar	VUPSL03001
3/8" BSP	1 : 6.5	30 lpm	300 bar	5.0 bar	VUPSL05001
1/2" BSP	1 : 4.6	45 lpm	300 bar	3.0 bar	VUPSL10001
3/4" BSP	1 : 4.4	80 lpm	250 bar	0.5 bar	VUPSL20001



Single Pilot Operated Check Valve

These valves are used to block the cylinder in one direction. The flow is free in one direction and blocked in the reverse direction until the pilot pressure is applied.

Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard

PORTS	PILOT RATIO	MAX FLOW	MAX PRESSURE	CRACKING PRESSURE	PART NUMBER
1/4" BSP	1 : 5.5	20 lpm	350 bar	4.0 bar	VBPSE14
3/8" BSP	1 : 5	45 lpm	350 bar	8.0 bar	VBPSE38
1/2" BSP	1 : 4	70 lpm	350 bar	3.5 bar	VBPSE12
3/4" BSP	1 : 4	100 lpm	350 bar	2.0 bar	VBPSE34



Symbol	Operating features with solenoid:	
	de-energized	energized
A 	2 1 1 → 2	2 → 1 1 → 2
B 	2 → 1 1 → 2	2 1 1 → 2

Solenoid Operated Check Valve

SPOOL AT REST POSITION	PORTS	MAX FLOW RATE	MAX WORK PRESSURE	VOLTAGE	PART NUMBER
	1, 2				
Normally Closed	1/4" BSP	25 lpm	250 bar	12V	EV2514A
Normally Open	1/4" BSP	25 lpm	250 bar	12V	EV2514B
Normally Closed	3/8" BSP	25 lpm	250 bar	12V	EV2538A
Normally Open	3/8" BSP	25 lpm	250 bar	12V	EV2538B

Note: For replacement coils see Page 93.

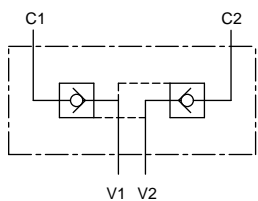


Symbol	Operating features with solenoid:	
	de-energized	energized
A 	2 1 1 → 2	2 → 1 1 → 2
B 	2 → 1 1 → 2	2 1 1 → 2

Solenoid Operated Check Valve

SPOOL AT REST POSITION	PORTS	MAX FLOW RATE	MAX WORK PRESSURE	VOLTAGE	PART NUMBER
	1, 2				
Normally Closed	1/2" BSP	45 lpm	300 bar	12V	EV4012A
Normally Closed	1/2" BSP	45 lpm	300 bar	24V	EV4012A24V
Normally Open	1/2" BSP	45 lpm	300 bar	12V	EV4012B

Note: For replacement coils see Page 93.

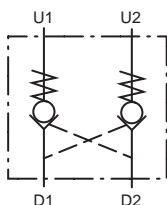


Double Pilot Operated Check Valve - Banjo Mounted

Pilot check valves are used to block the actuator in both directions. Flow is free in one direction and blocked in the reverse direction until pilot pressure is applied. This value can be fixed directly on cylinder through the drilled screw supplied with the valve.

Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard

PORTS	PILOT RATIO	MAX FLOW	MAX PRESSURE	CRACKING PRESSURE	PART NUMBER
1/4" BSP	1 : 5.5	20 lpm	350 bar	4.5 bar	VBPDE14FLV
3/8" BSP	1 : 5.5	30 lpm	350 bar	4.5 bar	VBPDE38FLV

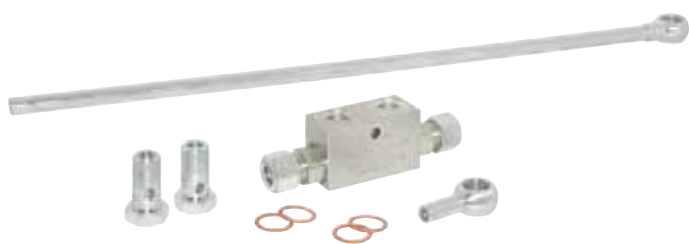


VBPD L - Double Pilot Operated Valve

These dual non-return valves flow from D to U and are applied when a cylinder should remain in any required position. External forces on the cylinder should not influence the position of the cylinder. Internal pilot. Suited for in-line mounting.

Application: High flow and high pressure
 Body: Aluminium
 Seals: BUNA N standard

PORTS	PILOT RATIO	MAX FLOW	MAX PRESSURE	PART NUMBER
1/4" BSP	1 : 5.5	20 lpm	350 bar	VBPDL03001
3/8" BSP	1 : 5.5	35 lpm	350 bar	VBPDL05001
1/2" BSP	1 : 4	70 lpm	350 bar	VBPDL10001
3/4" BSP	1 : 4.5	100 lpm	350 bar	VBPDL20001



Double pilot check valve for direct mounting, protects movement of ram in case of leakage. Use as a safety device.

Applications:
 Hydraulic Doors, Side Legs, Top Links etc.

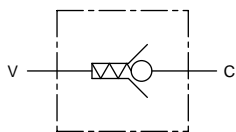


Universal Anti-Creep Valve c/w Banjo Bolts

PORTS	PILOT RATIO	MAX FLOW	MAX PRESSURE	CRACKING PRESSURE	LENGTH ADJUSTMENT		PART NUMBER
					MINIMUM	MAXIMUM	
3/8" BSP	1 : 5.5	35 lpm	350 bar	3 bar	170mm	625mm	FPD382R08027
1/2" BSP	1 : 5	50 lpm	350 bar	3 bar	205mm	560mm	FPD122R08027

Hose Burst Valve

These hose burst valves normally allow free flow in two directions and have a standard setting according to the diagram. In case of hose or pipe fracture an uncontrolled speed arises, because of which the valve closes directly and automatically.



Design: Spring-loaded valve
 Application: High flow and high pressure
 To be used as: Protection against hose and pipe fractures
 Characteristics: Protection direction is indicated by an arrow

Female / Female



PORTS	ADJUSTMENT	PART NUMBER
1/4" BSP	10 lpm	HBV03001
3/8" BSP	20 lpm	HBV05001
3/8" BSP	30 lpm	HBV05002
3/8" BSP	40 lpm	HBV05003
1/2" BSP	60 lpm	HBV10001
1/2" BSP	90 lpm	HBV10002
3/4" BSP	125 lpm	HBV20001
1" BSP	200 lpm	HBV25001

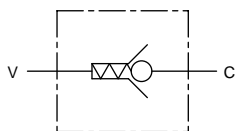
Male / Female



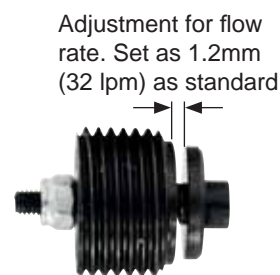
PORTS	ADJUSTMENT	PART NUMBER
1/4" BSP	10 lpm	SBA0410
3/8" BSP	20 lpm	SBA0620
1/2" BSP	60 lpm	SBA0860
3/4" BSP	125 lpm	SBA12125
1" BSP	200 lpm	SBA16200

Hose Burst Insert Valve

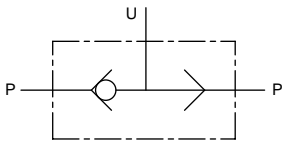
• For use with cylinders



Thickness (mm)	Flow Rate (lpm)
0.2	5.5
04	10.5
0.6	15
0.8	20
1.0	25
1.2 (std)	32
1.4	37
1.6	40
2.8 (max)	45



THREAD	ADJUSTMENT	PART NUMBER
3/8" BSP	5.5 - 45 lpm	HBV90530



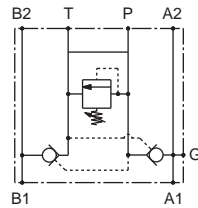
Shuttle Valve

This valve is used to select higher pressure between two pressure lines.

Body: Zinc-plated steel
Seals: BUNA N standard
Tightness: Ball type



PORTS	MAX FLOW	MAX PRESSURE	PART NUMBER
1/4" BSP	30 lpm	450 bar	VU2P04
3/8" BSP	45 lpm	450 bar	VU2P06
1/2" BSP	70 lpm	450 bar	VU2P08
3/4" BSP	110 lpm	350 bar	VU2P12
1" BSP	150 lpm	300 bar	VU2P16



Dual Pilot Check / Relief Combination Valve for use on Block Grabs

Block Grab Valve

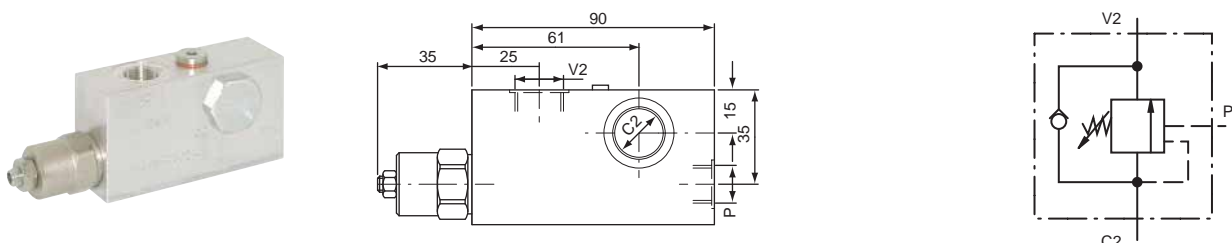
Setting: 180 bar
Adjustment Pressure Range: 40-250 bar

PORTS	PORTS	PILOT RATIO	MAX FLOW	MAX PRESSURE	PART NUMBER
A, B, P, T	G				
3/8" BSP	1/4" BSP	4 : 1	40 lpm	350 bar	BM020600

Counterbalance / Overcentre Valve Introduction

Principle:

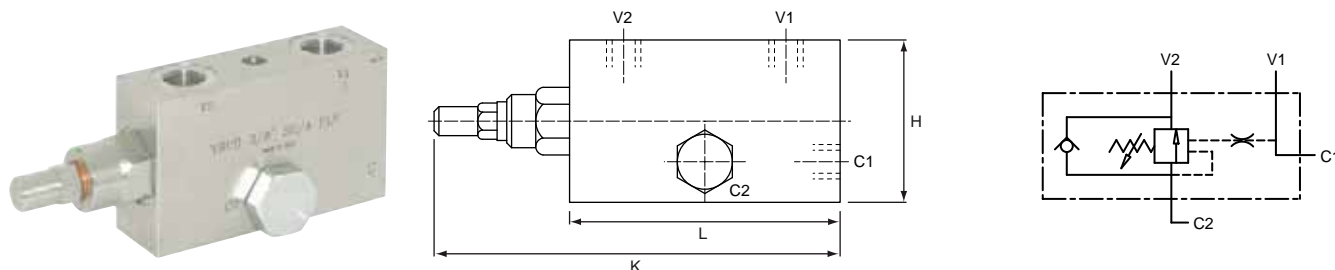
1. A counterbalance valve is a normally closed pressure control valve, constructively comparable to an ordinary pressure relief valve, however with an external pilot.
2. The main function of a counterbalance valve is to support a load or to prevent uncontrolled load drop / machine moves uncontrollably, when a control valve is operated or the pump pressure falls out.
3. The tendency to 'run ahead' means in fact that the pump cannot 'keep up' with the user. That is why a counterbalance valve is mounted as close as possible to the user (if possible), namely at the port where a counter pressure should be created.
4. In normal cases counter pressure is not necessary and desirable, that is why the counterbalance valve can be opened completely via the pilot if there is minimum pressure at the side of the pump.



Single Acting Counter Balance Valve with External Pilot and Banjo Mounting

Material body: Aluminium
 Mounting: Banjo

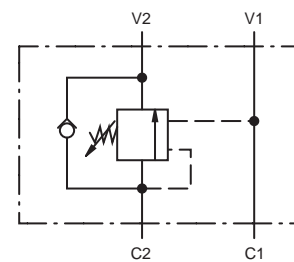
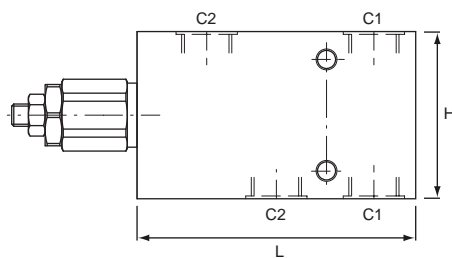
PORTS V2	PORTS P	C2	MAX FLOW	PILOT RATIO	MAX PRESSURE	STANDARD SETTING	ADJ. PRESSURE RANGE	PART NUMBER
1/2" BSP	1/4" BSP	21	60 lpm	4.25 : 1	350 bar	280 (Q=5 lpm)	50 / 350	OVCSEC12



Single Counter Balance Valve Banjo Mounted

Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard
 Mounting: Banjo

PORTS V1, V2	PORTS C1, C2	MAX FLOW	PILOT RATIO	MAX PRESSURE	DIMENSIONS			PART NUMBER
					K	L	H	
3/8" BSP	3/8" BSP	40 lpm	1 : 4.5	350 bar	150	100	60	VBCDSE38FLV
1/2" BSP	1/2" BSP	60 lpm	1 : 4.5	350 bar	150	100	60	VBCDSE12FLV



Single Counter Balance Valve

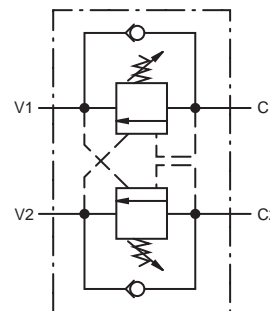
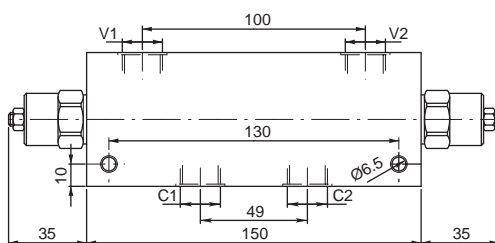
Material body: Aluminium

PORTS V1, V2	PORTS C1, C2	MAX FLOW	PILOT RATIO	MAX PRESSURE	STANDARD SETTING	PRESSURE RANGE	DIMENSIONS		PART NUMBER
							L	H	
3/8" BSP	3/8" BSP	40 lpm	4.25 : 1	350 bar	280 bar	50 / 350	100	60	OVCSEL38
1/2" BSP	1/2" BSP	60 lpm	4.25 : 1	350 bar	280 bar	50 / 350	100	60	OVCSEL12
3/4" BSP	3/4" BSP	100 lpm	4.25 : 1	350 bar	280 bar	50 / 350	125	70	OVCSEL34
1" BSP	1" BSP	120 lpm	4.25 : 1	350 bar	280 bar	50 / 350	140	70	OVCSEL1

OVCDEL38



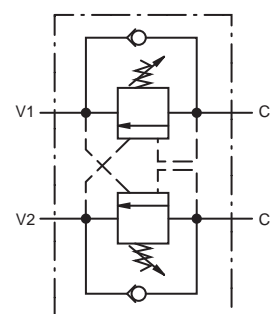
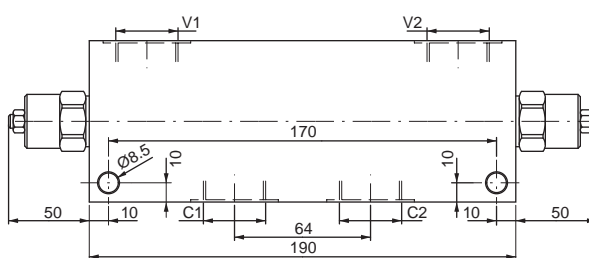
OVCDEL12



Double Acting Counter Balance Valve

Material body: Aluminium

PORTS V1, V2	PORTS C1, C2	MAX FLOW	PILOT RATIO	MAX PRESSURE	STANDARD SETTING	ADJ. PRESSURE RANGE	PART NUMBER
3/8" BSP	3/8" BSP	40 lpm	4.25 : 1	350 bar	280 (Q=5 lpm)	50 / 350	OVCDEL38
1/2" BSP	1/2" BSP	60 lpm	4.25 : 1	350 bar	280 (Q=5 lpm)	50 / 350	OVCDEL12



Double Acting Counter Balance Valve

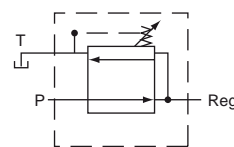
Material body: Aluminium

PORTS V1, V2	PORTS C1, C2	MAX FLOW	PILOT RATIO	MAX PRESSURE	STANDARD SETTING	ADJ. PRESSURE RANGE	PART NUMBER
3/4" BSP	3/4" BSP	100 lpm	4.25 : 1	350 bar	280 (Q=5 lpm)	50 / 350	OVCDEL34
1" BSP	1" BSP	120 lpm	4.25 : 1	350 bar	280 (Q=5 lpm)	50 / 350	OVCDEL1



Pressure Reducing Valve

This pilot operating pressure reducing valve allows flow from P to R. It is applied to realise a constant and lower pressure at port R in case of varying system pressure. In order to guarantee good operation it is absolutely necessary to join port 3 (leakage) pressureless to the tank or into a return port. Suited for in-line mounting.



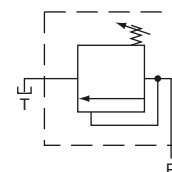
PORTS	MAX FLOW RATE	MAX REGULATED PRESSURE	MAX INLET PRESSURE	PART NUMBER
1/2" BSP	100 lpm	210 bar	300 bar	RP2512



Pressure Relief Valve (Steel)

The relief valve provides overload protection in a fast and accurate way: when it reaches pressure setting, the valve opens allowing pressure relief in order not to exceed this setting.

Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard
 Max Pressure: 210 bar



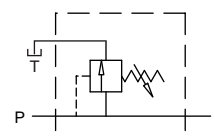
PORTS	MAX FLOW RATE	SETTING RANGE	STANDARD SETTING	PART NUMBER
3/8" BSP	36 lpm	50 - 210 bar	120 bar	HV19



Pressure Relief Valve (Steel)

The relief valve provides overload protection in a fast and accurate way: when it reaches pressure setting, the valve opens allowing pressure relief in order not to exceed this setting.

Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard



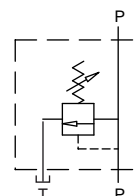
PORTS	MAX FLOW RATE	SETTING RANGE	STANDARD SETTING	PART NUMBER
1/4" BSP	30 lpm	10 - 180 bar	120 bar	VMP14L
3/8" BSP	40 lpm	10 - 180 bar	120 bar	VMP38L



Pressure Relief Valve (Steel)

This Pressure relief valve drains from P to T. Suited for in-line mounting.

Body: Steel
 Design: Spring loaded valve directly operated
 Application: Medium and high pressure
 To be used for: Pump safety devices

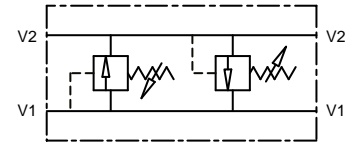


PORTS	MAX FLOW RATE	SETTING RANGE	STANDARD SETTING	PART NUMBER
3/8" BSP	45 lpm	50 - 250 bar	180 bar	VLP40-38
1/2" BSP	70 lpm	50 - 250 bar	180 bar	VLP80-12
3/4" BSP	90 lpm	50 - 250 bar	180 bar	VLP130-34

Dual Cross Relief Valve

Made up by 2 relief valves with crossed tank line, this valve is used to block pressure to a certain setting in the 2 ports of an actuator/hydraulic motor. It's ideal to provide protection against sudden shock pressures and to adjust different pressures in the 2 ports of a hydraulic circuit.

Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard

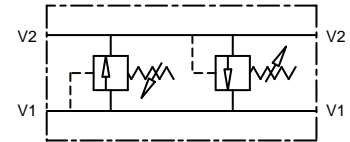


PORTS	MAX FLOW RATE	SETTING RANGE	STANDARD SETTING	PART NUMBER
1/4" BSP	30 lpm	10 - 180 bar	90 bar	VAU14
3/8" BSP	45 lpm	10 - 180 bar	90 bar	VAU38
1/2" BSP	70 lpm	10 - 180 bar	90 bar	VAU12
3/4" BSP	110 lpm	10 - 180 bar	90 bar	VAU34

Dual Cross Relief Valve

Made up by 2 relief valves with crossed tank line, this valve is used to block pressure to a certain setting in the 2 ports of an actuator/hydraulic motor. It's ideal to provide protection against sudden shock pressures and to adjust different pressures in the 2 ports of a hydraulic circuit.

Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard

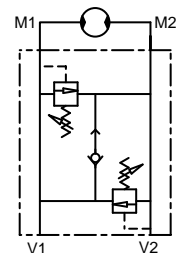


PORTS	MAX FLOW RATE	SETTING RANGE	STANDARD SETTING	PART NUMBER
1/2" BSP	70 lpm	-	210 bar	VAU12L210

Dual Cross Relief Valve Flangeable on Hydraulic Motors

Made up by 2 relief valves with crossed tank line, this valve is used to block pressure to a certain setting in the 2 ports of a hydraulic motor. It's ideal to provide protection against sudden shock pressures and to adjust different pressures in the 2 ports of a hydraulic circuit. Direct flange is ideal for Danfoss motors type OMS, OMP-OMR and OMT and provides a maximum safety, very low pressure drops and solid installation.

Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard



PORTS	MAX FLOW RATE	SETTING RANGE	STANDARD SETTING	TO SUIT DANFOSS	PART NUMBER
1/2" BSP	50 lpm	10 - 180 bar	90 bar	OMS	VAU12OMS
1/2" BSP	60 lpm	10 - 180 bar	90 bar	OMP/OMR	VAU12OMPOMR
3/4" BSP	100 lpm	10 - 180 bar	90 bar	OMT	VAU34OMT

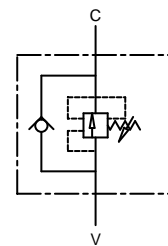
Fitting Bolts to suit Dual Cross Relief Valve

TYPE	SIZE	TO SUIT VALVE	QTY PER VALVE	PART NUMBER
Allen head bolt	M10 x 35	VAU12OMS	2	M1035DIN912
Allen head bolt	M8 x 35	VAU12OMPOMR	4	M835DIN912
Allen head bolt	M10 x 35	VAU34OMT	4	M1035DIN912



Sequence Valve

Sequence valve is used to feed 2 cylinders in sequence, it provides flow to the secondary circuit when a primary circuit function has been completed reaching the pressure setting. Return flow is free. Being insensitive to back pressure, it allows it to use the circuit pressure to control both the actuators.



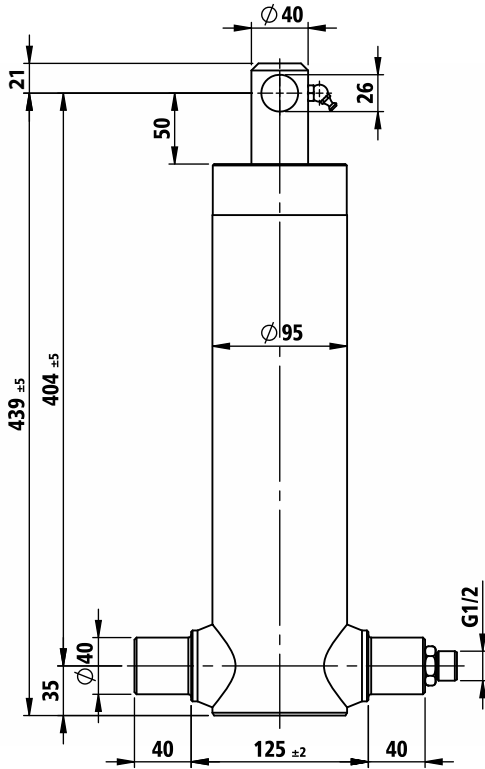
Body: Zinc-plated steel
 Internal Parts: Hardened and ground steel
 Seals: BUNA N standard

PORTS	MAX FLOW RATE	SETTING RANGE	STANDARD SETTING	PART NUMBER
3/8" BSP	35 lpm	10 - 180 bar	90 bar	VDSRL05001
1/2" BSP	70 lpm	10 - 180 bar	90 bar	VDSRL10001
3/4" BSP	120 lpm	10 - 180 bar	90 bar	VDSRL20001



Technical Notes & Specifications

- The normal application of telescopic cylinder is to lift up tipping bodies, loaded with different materials, and consequently discharge this material whilst the cylinder is extended all along its stroke.
- The body weight plus the max payload are the max tipping weight that can be raised by the cylinder. This value, calculated at the max pressure, is a rough indication of the tipping power of the cylinder and must be used as a first criteria for the selection of the cylinder. The real tipping mass can only be calculated by the design engineer of the dump truck, and must take into account the geometry of the dump body and operating conditions. Never exceed the maximum thrust.
- Never exceed maximum pressure.
- The cylinder has been designed for loads along the longitudinal axis: the cylinder is a lifting device only and may not be used as structural member or be subject to side load.
- The ordinary use of telescopic cylinder does not require any coating as the telescopic stages are exposed to atmospheric agents only during the tip-up operation. Therefore telescopic cylinders will be supplied without any coating in absence of any specific requirements.
- H.S.PENTA warranty does not apply to any kind of corrosion of coated or non-coated parts. See terms of warranty.
- Maximum extension speed less than 0.2 m/s.
- Hydraulic oil temperature admitted between -40°C and +100°C.
- In case the cylinders must be stored, do not remove the package. Store them in a dry place, not exposed to rain. Do not store the cylinders for more than 6 (six) months.
- Further specifications see mounting instructions, hydraulic oil specification sheet, user & maintenance manual

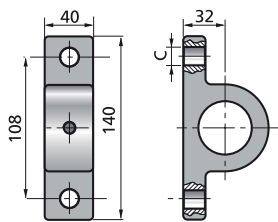


Eye - Pins Tipping Cylinder 4 - 9 Ton

Extension	1	2	3
Diameter (mm)	75	60	45
Stroke (mm)	283	286	291
Thrust (kN)	97	62	35
Oil (dm ³)	1.2	0.8	0.5

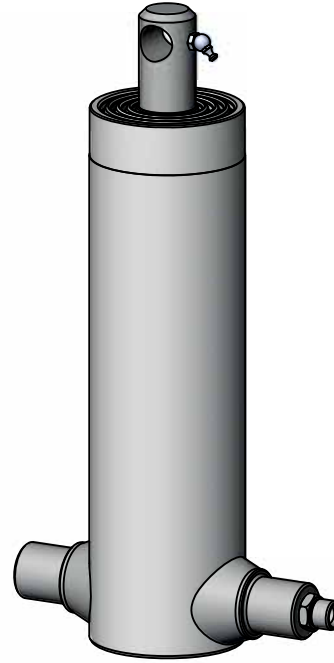
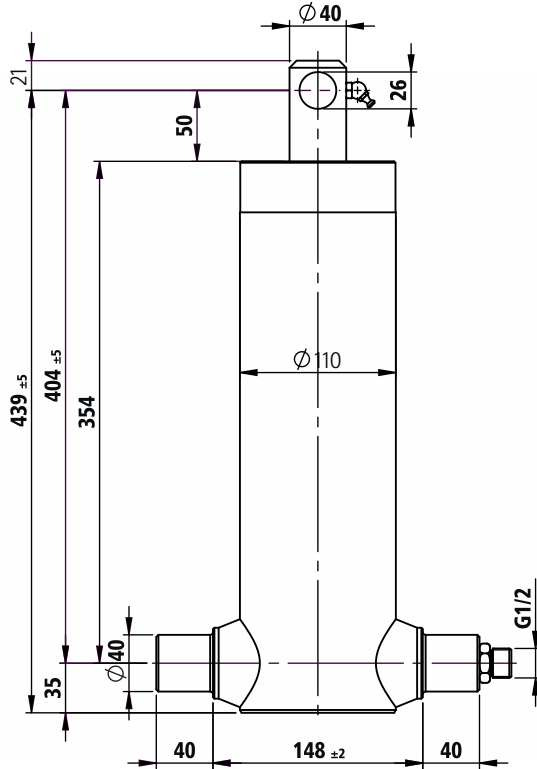
- Weight: 19 Kg
- Total stroke: 860mm
- Max pressure: 220 bar
- Mounting distance: 404mm (+20mm min. pull out)

STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
3	95mm	860mm	41 kN	2.5 dm ³	Light duty	TMC3095860



One Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support one piece	TMC940A

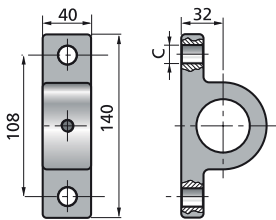


Eye - Pins Tipping Cylinder 5 - 11 Ton

Extension	1	2	3	4
Diameter (mm)	90	75	60	45
Stroke (mm)	280	283	285	292
Thrust (kN)	140	97	62	35
Oil (dm ³)	1.8	1.2	0.8	0.5

- Weight: 24 Kg
- Total stroke: 1140mm
- Max pressure: 220 bar
- Mounting distance: 404mm (+20mm min. pull out)

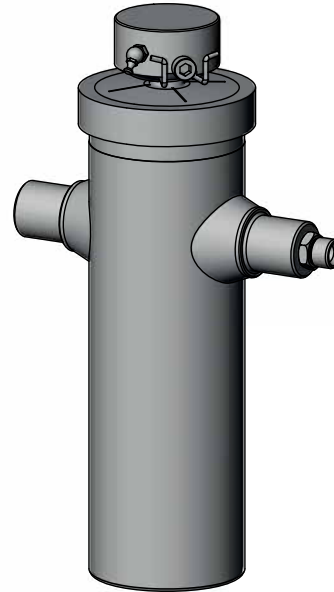
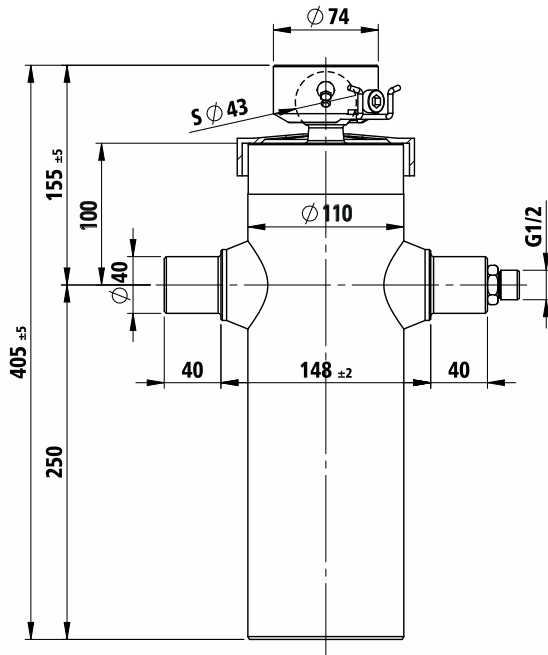
STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
4	110mm	1140mm	50 kN	4.3 dm ³	Light duty	TMC401101140



One Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support one piece	TMC940A

11A

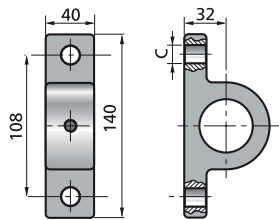


Ball - Pins Tipping Cylinder 5 - 11 Ton

Extension	1	2	3	4
Diameter (mm)	90	75	60	45
Stroke (mm)	241	244	246	253
Thrust (kN)	140	97	62	35
Oil (dm ³)	1.5	1.1	0.7	0.4

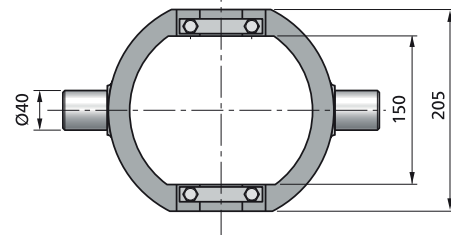
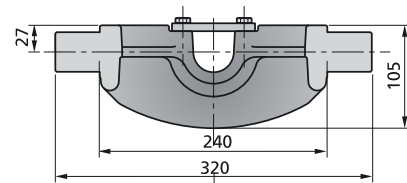
- Weight: 23 Kg
- Total stroke: 984mm
- Max pressure: 220 bar
- Mounting distance: 155mm (+20mm min. pull out)

STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
4	90mm	984mm	50 kN	3.7 dm ³	Light duty	TMC4110984



One Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support one piece	TMC940A



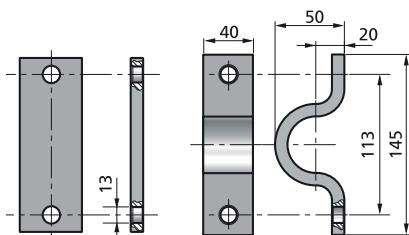
Cylinder Cradle

- Weight: 9 Kg
- Max Capacity: 8 Ton

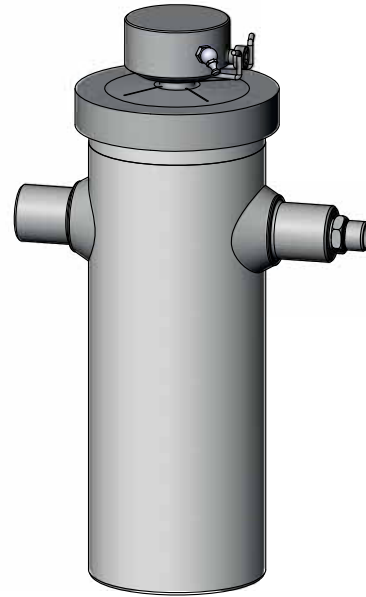
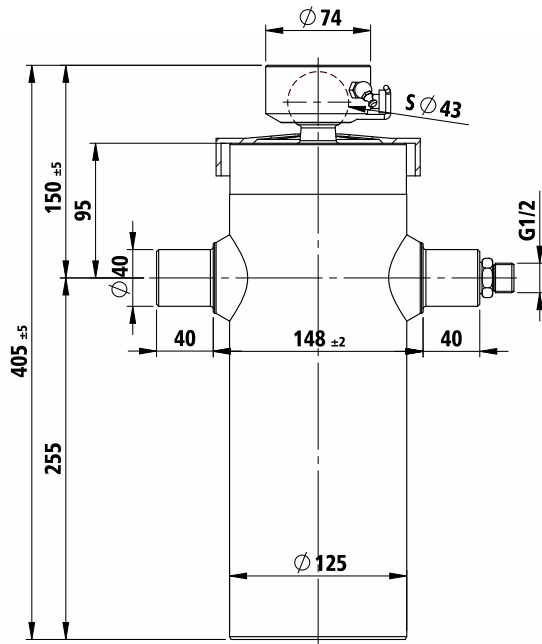
Two Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support two piece	TMC940B

DESCRIPTION	PART NUMBER
Cradle	TMC940C



12A

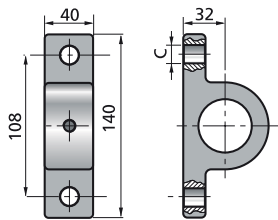


Ball - Pins Tipping Cylinder 6 - 12 Ton

Extension	1	2	3	4	5
Diameter (mm)	105	90	75	60	45
Stroke (mm)	254	241	244	246	252
Thrust (kN)	173	127	88	57	32
Oil (dm ³)	2.2	1.5	1.1	0.7	0.4

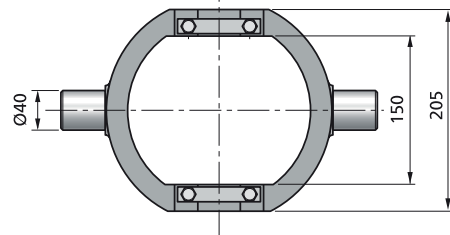
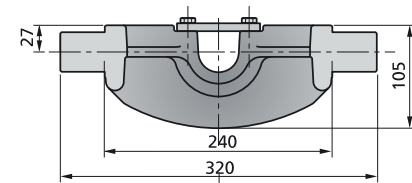
- Weight: 28 Kg
- Total stroke: 1237mm
- Max pressure: 200 bar
- Mounting distance: 150mm (+20mm min. pull out)

STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
5	105mm	1237mm	61 kN	5.9 dm ³	Light duty	TMC51251237



One Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support one piece	TMC940A



Two Piece Cylinder Support

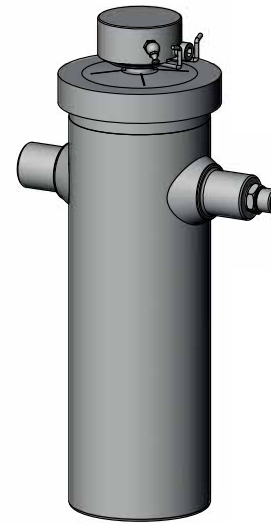
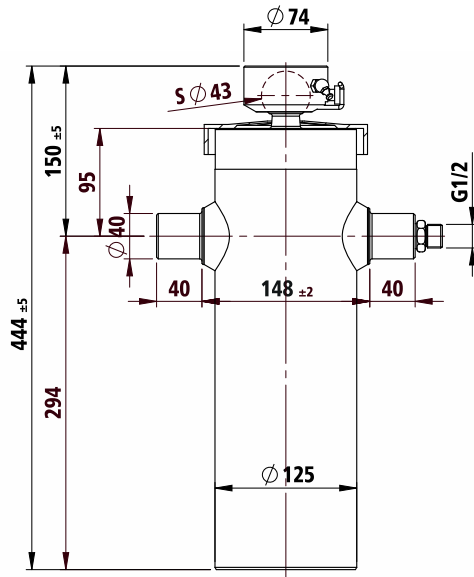
DESCRIPTION	PART NUMBER
Cylinder support two piece	TMC940B

Cylinder Cradle

- Weight: 9 Kg
- Max Capacity: 8 Ton

DESCRIPTION	PART NUMBER
Cradle	TMC940C

12ALS

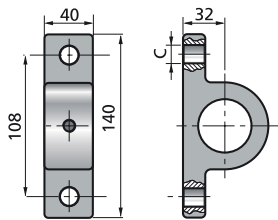


Ball - Pins Tipping Cylinder 6 - 12 Ton

Extension	1	2	3	4	5
Diameter (mm)	105	90	75	60	45
Stroke (mm)	293	280	283	285	291
Thrust (kN)	173	127	88	57	32
Oil (dm ³)	2.5	1.8	1.2	0.8	0.5

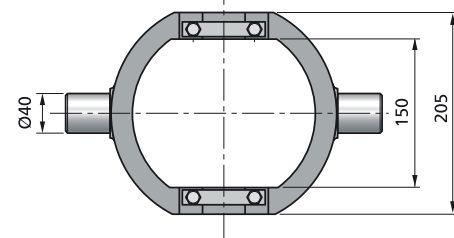
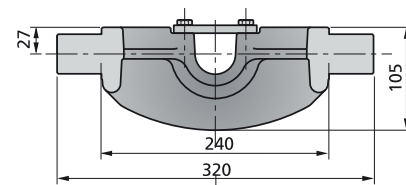
- Weight: 30 Kg
- Total stroke: 1432mm
- Max pressure: 200 bar
- Mounting distance: 150mm (+20mm min. pull out)

STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
5	105mm	1432mm	61 kN	6.8 dm ³	Light duty	TMC51251432



One Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support one piece	TMC940A



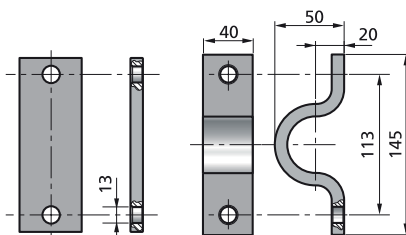
Cylinder Cradle

- Weight: 9 Kg
- Max Capacity: 8 Ton

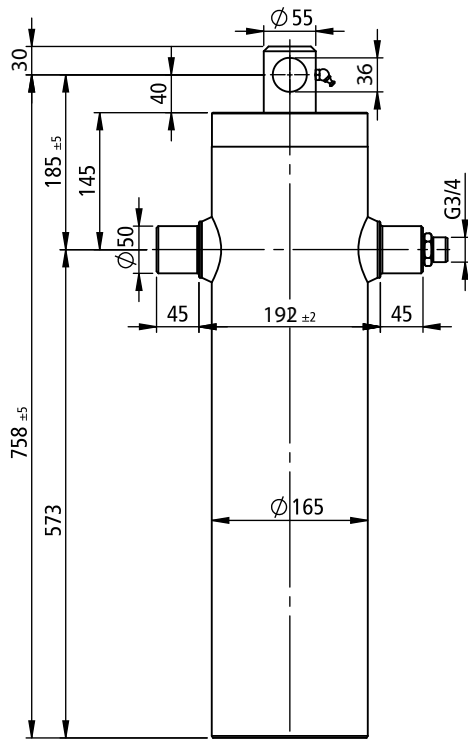
Two Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support two piece	TMC940B

DESCRIPTION	PART NUMBER
Cradle	TMC940C



CHROME FINISH

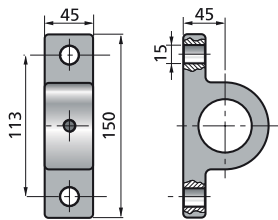


Eye - Pins Tipping Cylinder 13 - 22 Ton

Extension	1	2	3	4	5
Diameter (mm)	140	120	105	90	75
Stroke (mm)	594	600	600	587	589
Thrust (kN)	277	204	156	115	80
Oil (dm ³)	9.1	6.8	5.2	3.7	2.6

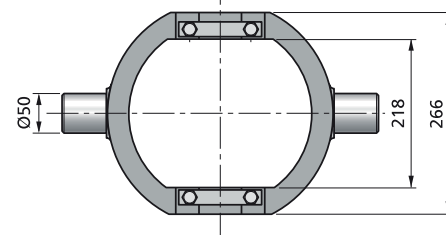
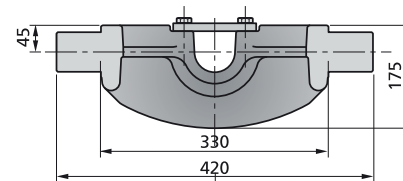
- Weight: 98 Kg
- Total stroke: 2970mm
- Max pressure: 180 bar
- Mounting distance: 185mm (+20mm min. pull out)

STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
5	140mm	2970mm	126 kN	27.4 dm ³	Light duty	TMC551922970



One Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support one piece	TMC950A



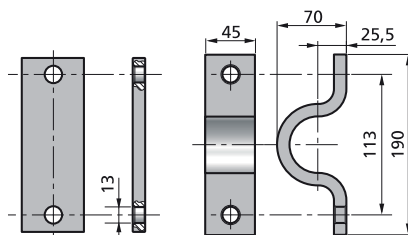
Cylinder Cradle

- Weight: 16 Kg
- Max Capacity: 21 Ton

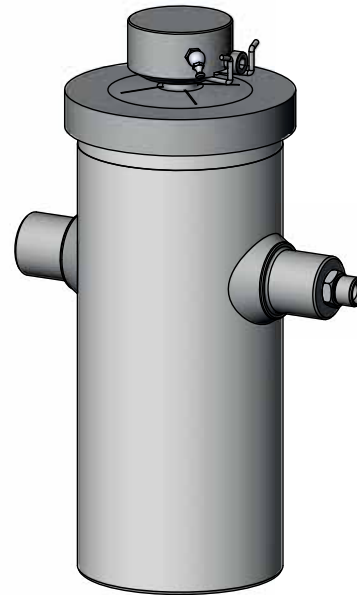
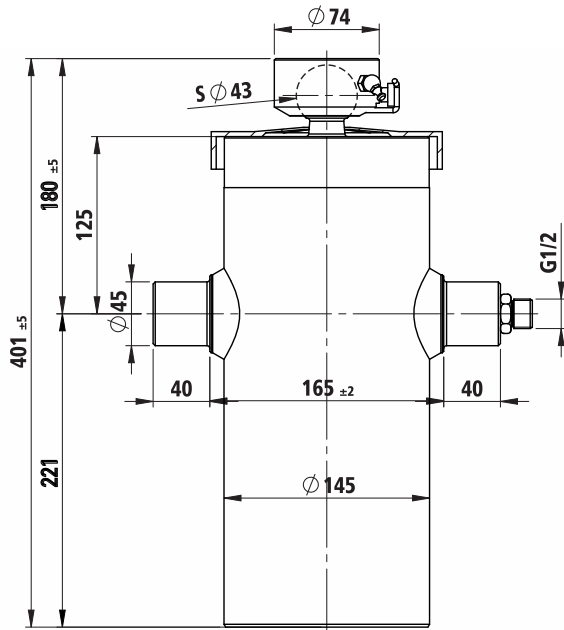
Two Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support two piece	TMC950B

DESCRIPTION	PART NUMBER
Cradle	TMC950C



26A

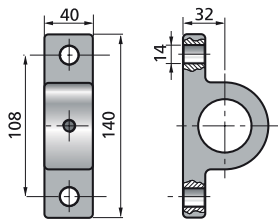


Ball - Pins Tipping Cylinder 7 - 14 Ton

Extension	1	2	3	4	5	6
Diameter (mm)	120	105	90	75	60	45
Stroke (mm)	241	241	228	231	234	240
Thrust (kN)	226	173	127	88	57	32
Oil (dm ³)	2.7	2.1	1.4	1.0	0.7	0.4

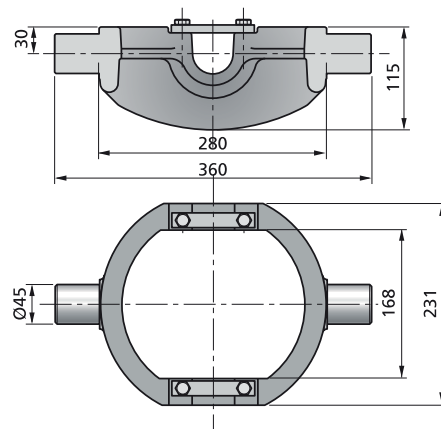
- Weight: 36 Kg
- Total stroke: 1415mm
- Max pressure: 200 bar
- Mounting distance: 180mm (+20mm min. pull out)

STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
6	120mm	1415mm	72 kN	8.3 dm ³	Light duty	TMC61451415



One Piece Cylinder Support

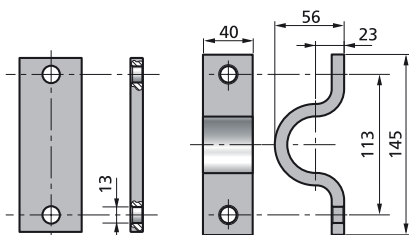
DESCRIPTION	PART NUMBER
Cylinder support one piece	TMC945A



Cylinder Cradle

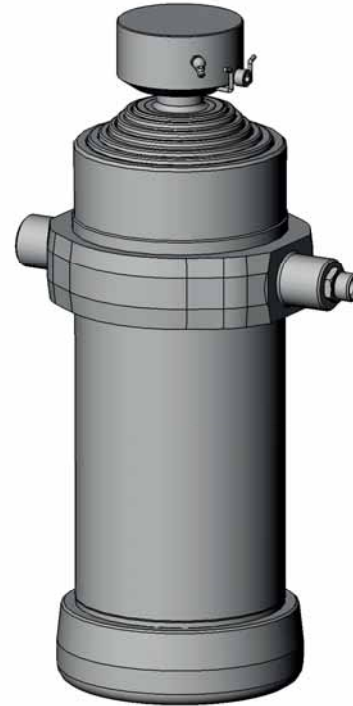
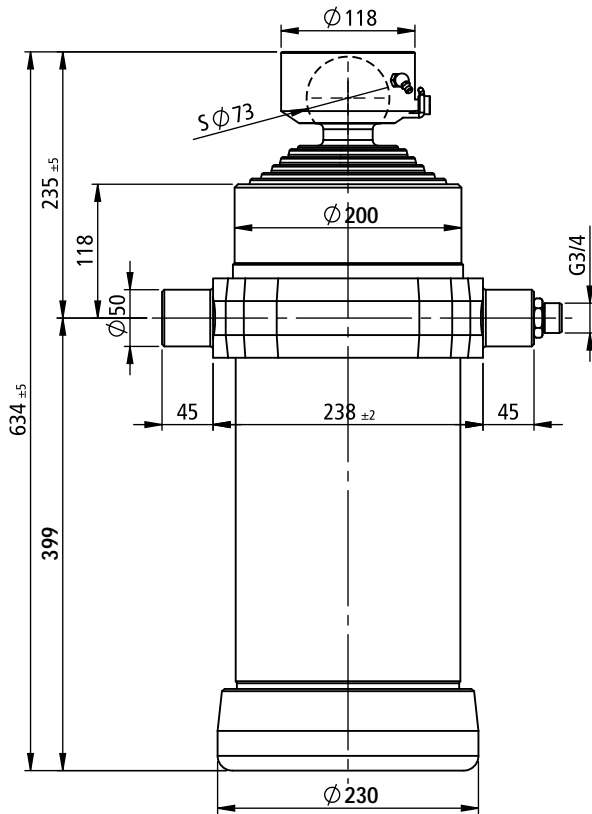
- Weight: 11.5 Kg
- Max Capacity: 11 Ton

DESCRIPTION	PART NUMBER
Cradle	TMC945C



Two Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support two piece	TMC945B

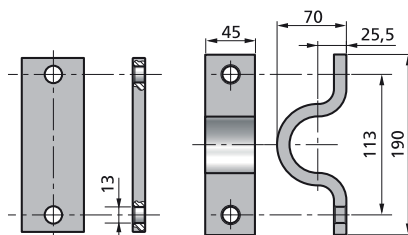


Ball - Pins Tipping Cylinder 18 - 36 Ton

Extension	1	2	3	4	5	6
Diameter (mm)	174	154	135	120	105	90
Stroke (mm)	387	387	385	394	393	394
Thrust (kN)	476	373	286	226	173	127
Oil (dm³)	9.2	7.2	5.5	4.5	3.4	2.5

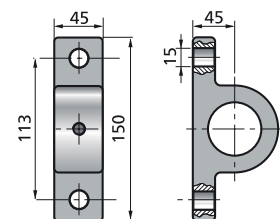
- Weight: 103 Kg
- Total stroke: 2340mm
- Max pressure: 200 bar
- Mounting distance: 235mm (+20mm min. pull out)

STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
6	174mm	2340mm	176 kN	32.3 dm³	Heavy duty	TMC62382340



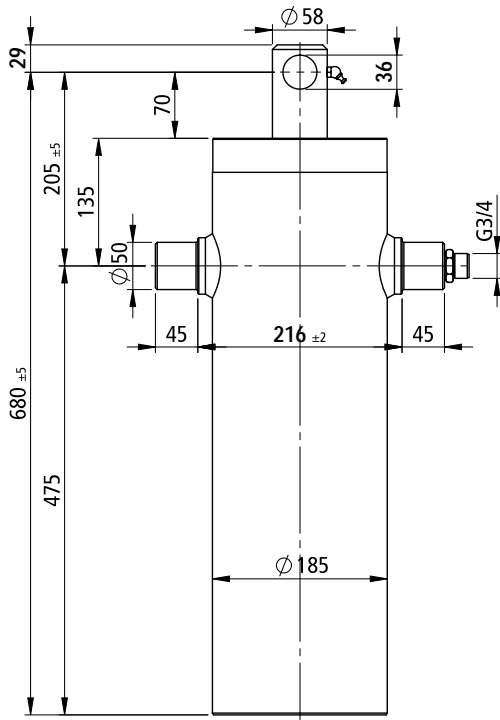
Two Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support two piece	TMC950B



One Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support one piece	TMC950A

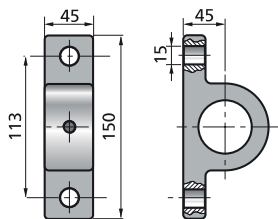


Eye - Pins Tipping Cylinder 15 - 25 Ton

Extension	1	2	3	4	5	6
Diameter (mm)	160	140	120	105	90	75
Stroke (mm)	419	420	422	418	418	418
Thrust (kN)	362	277	204	156	115	80
Oil (dm³)	8.4	6.5	4.8	3.6	2.7	1.8

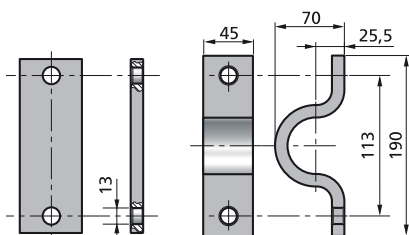
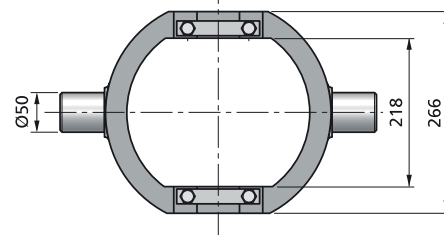
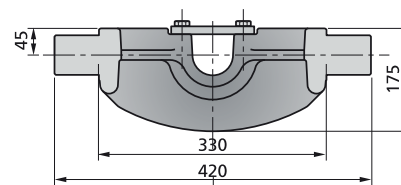
- Weight: 103 Kg
- Total stroke: 2515mm
- Max pressure: 180 bar
- Mounting distance: 205mm (+20mm min. pull out)

STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
6	160mm	2515mm	146 kN	27.8 dm³	Light duty	TMC61852515



One Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support one piece	TMC950A



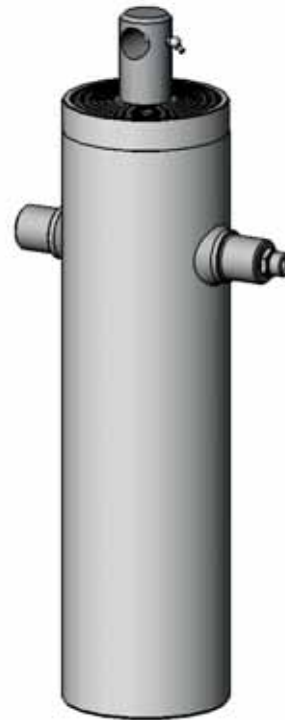
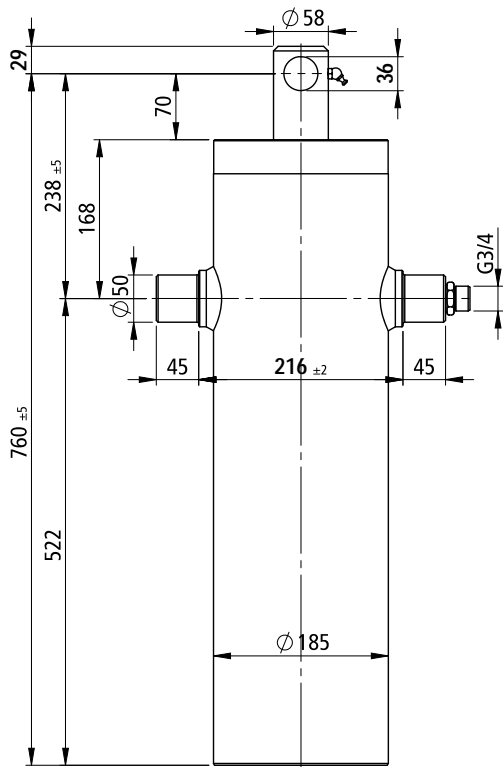
Two Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support two piece	TMC950B

Cylinder Cradle

- Weight: 16 Kg
- Max Capacity: 21 Ton

DESCRIPTION	PART NUMBER
Cradle	TMC950C

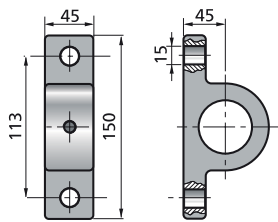


Eye - Pins Tipping Cylinder 15 - 25 Ton

Extension	1	2	3	4	5	6
Diameter (mm)	160	140	120	105	90	75
Stroke (mm)	499	500	502	498	498	498
Thrust (kN)	362	277	204	156	115	80
Oil (dm ³)	10.0	7.7	5.7	4.3	3.2	2.2

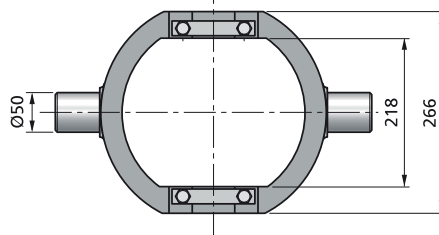
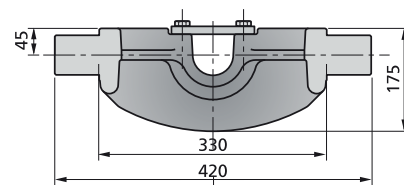
- Weight: 116 Kg
- Total stroke: 2995mm
- Max pressure: 180 bar
- Mounting distance: 238mm (+20mm min. pull out)

STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
6	160mm	2995mm	146 kN	33.1 dm ³	Light duty	TMC61852995



One Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support one piece	TMC950A



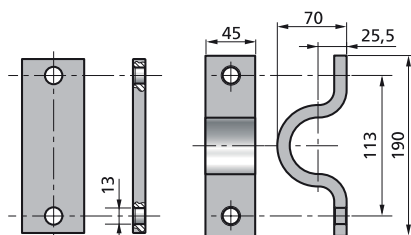
Cylinder Cradle

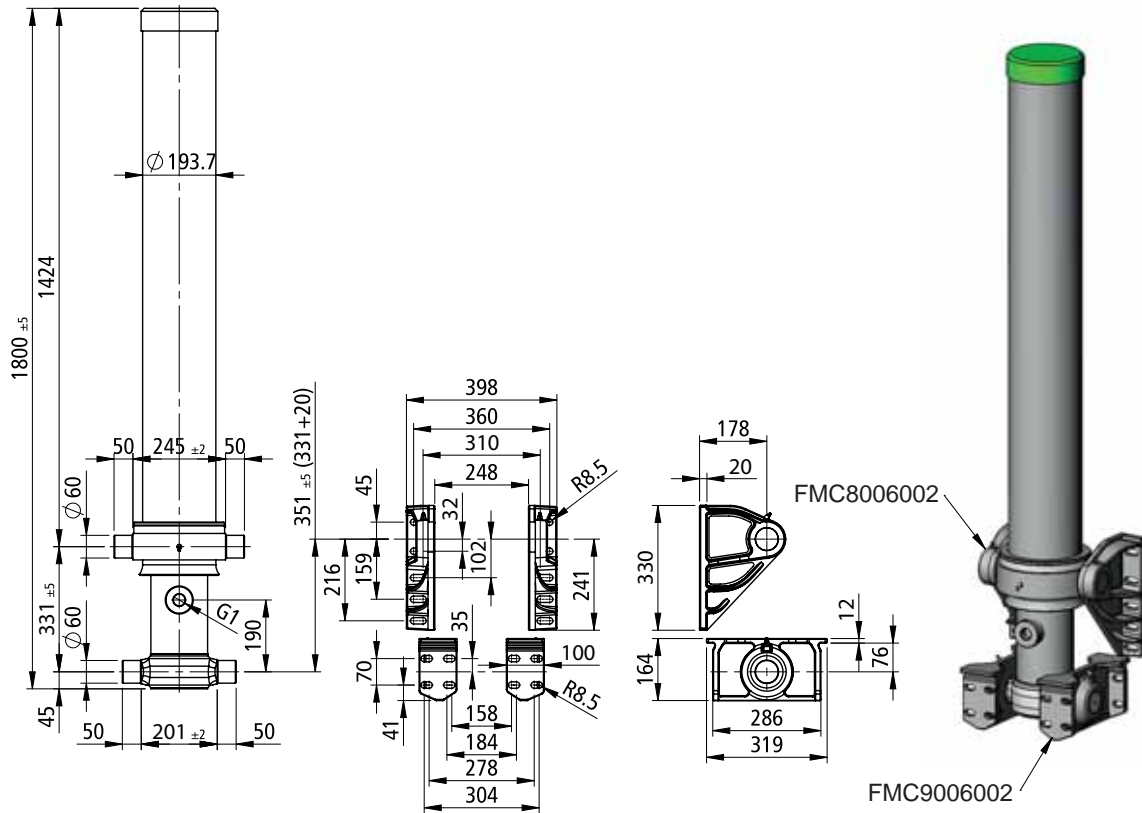
- Weight: 16 Kg
- Max Capacity: 21 Ton

Two Piece Cylinder Support

DESCRIPTION	PART NUMBER
Cylinder support two piece	TMC950B

DESCRIPTION	PART NUMBER
Cradle	TMC950C





Front End Cylinder with Outer Cover 24 - 47 Ton

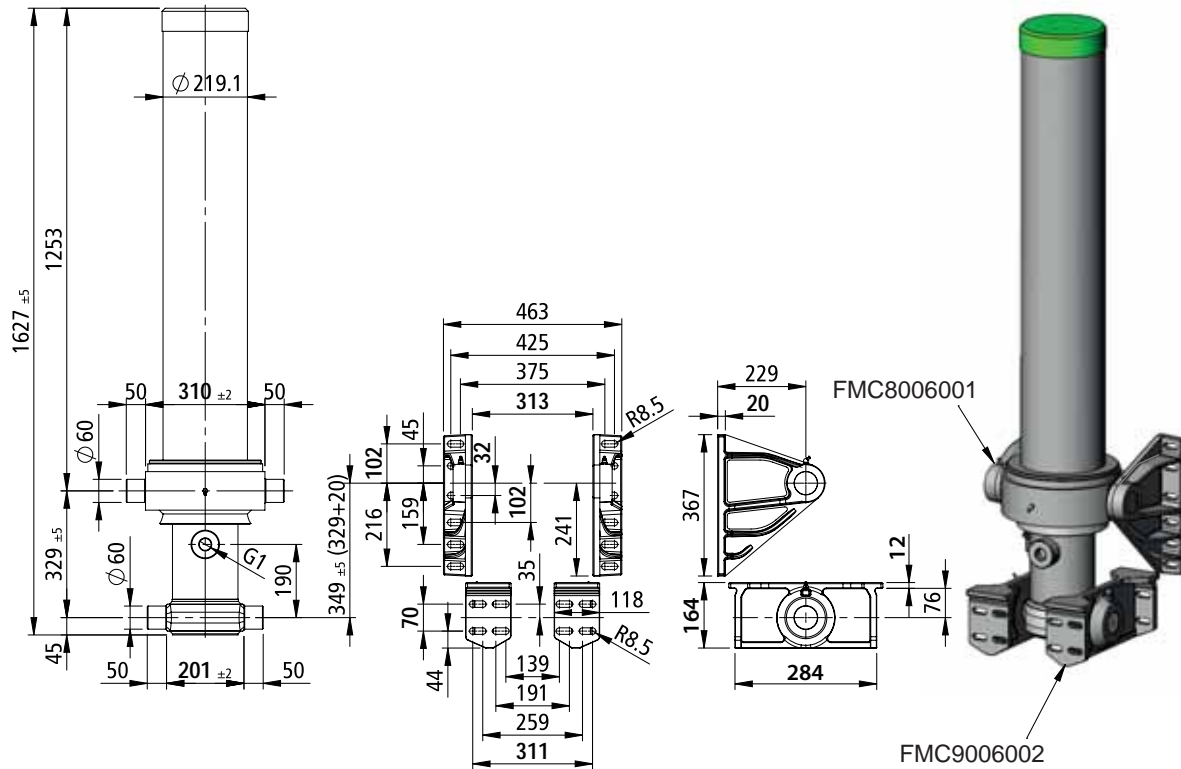
Extension	1	2	3	4
Diameter (mm)	129	111	95	80
Stroke (mm)	1425	1430	1435	1440
Thrust (kN)	261	194	142	101
Oil (dm ³)	18.6	13.8	10.2	7.2

- Weight: 216 Kg
- Total stroke: 5730mm
- Max pressure: 200 bar
- Mounting distance: 331mm (+20mm min. pull out)

STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
4	129mm	5730mm	-	49.8 dm ³	Front end	FMC41935730

Brackets & Bolt Kits to suit Front End Cylinder

DESCRIPTION	BOLT KIT TO SUIT	BRACKET PART NUMBER
Upper bracket to suit front end cylinder FMC41935730	FMC5008	FMC8006002
Lower bracket to suit front end cylinder FMC41935730	FMC5005	FMC9006002



Front End Cylinder with Outer Cover 34 - 64 Ton

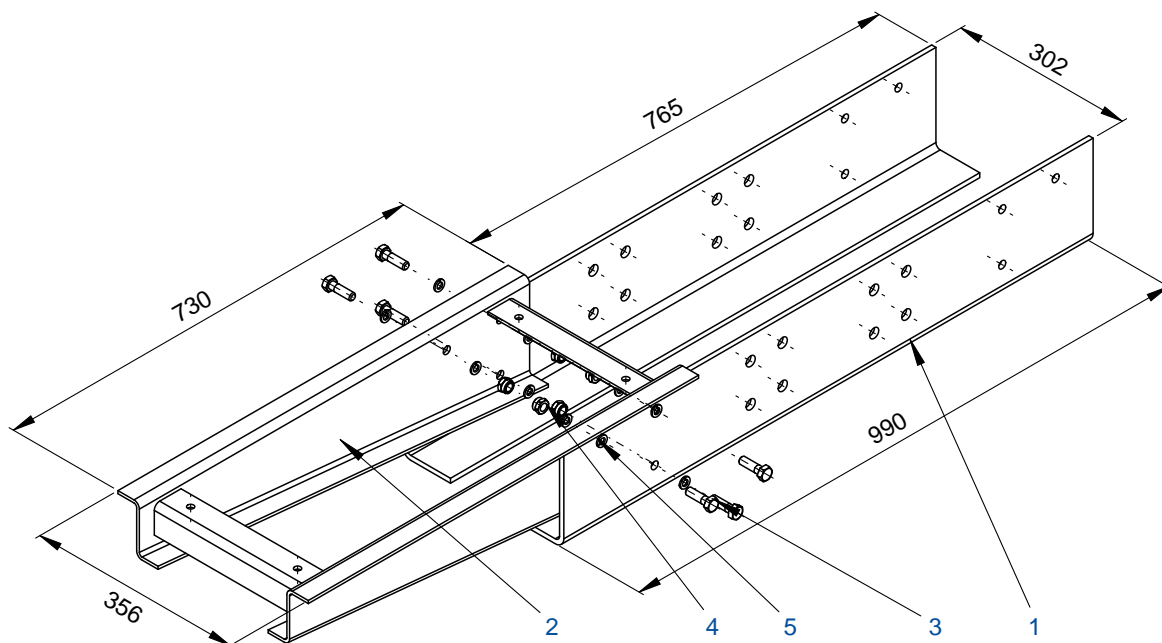
Extension	1	2	3	4
Diameter (mm)	149	129	111	95
Stroke (mm)	1270	1275	1280	1285
Thrust (kN)	349	261	194	142
Oil (dm ³)	22.1	16.7	12.4	9.1

- Weight: 250 Kg
- Total stroke: 5110mm
- Max pressure: 200 bar
- Mounting distance: 329mm (+20mm min. pull out)

STAGES	DIAMETER Ø	STROKE	MAX TRUST	OIL TOTAL	APPLICATION	PART NUMBER
4	149mm	5110mm	-	60.3 dm ³	Front end	FMC42195110

Brackets & Bolt Kits to suit Front End Cylinder

DESCRIPTION	BOLT KIT TO SUIT	BRACKET PART NUMBER
Upper bracket to suit front end cylinder FMC42195110	FMC5008	FMC8006001
Lower bracket to suit front end cylinder FMC42195110	FMC5005	FMC9006002

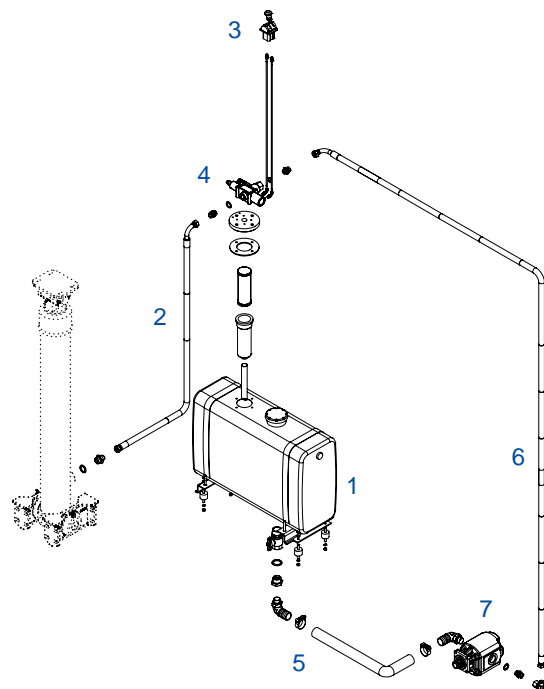


Front End Beam Kit

Contents:

- 1. L plate - 170 x 90 x 8mm (x2)
- 2. Oil tank 70 litre bracket
- 3, 4 & 5 Bolts, nuts and washers

DESCRIPTION	MAX PRESSURE	PART NUMBER
Front end beam kit containing items 1 - 5	200 bar	FMC0012



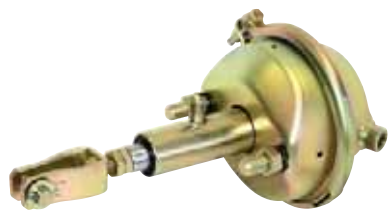
Wet Kit Assembly

Contents:

- 1. 100 litre rear mounted oil tank
- 2. Pressure kit, valve to cylinder and 3/4" hose 1500mm
- 3. Pneumatic control kit, hose 6x4 25m, Pneumatic control, 3 way tristable
- 4. Hydraulic distributor kit, immersed filter and valve's plate kit, hydraulic distributor, 130 or 150 lpm oil flow, 200 TVM
- 5. Suction kit, hose Ø 51mm 2000mm
- 6. Pressure kit, pump to valve and hose 2000mm
- 7. Gear pump, 84cc displacement, bi-rotational, 4 holes

DESCRIPTION	PART NUMBER
Wet kit assembly containing items 1 - 7, 130 lpm	FMCWK001
Wet kit assembly containing items 1 - 7, 150 lpm	FMCWK002

Hydraulic / Pneumatic Brake Actuators-Internal Spring



AIR POT TYPE	HYDRAULIC RAM ROD SIZE	AIR POT PORT	HYDRAULIC RAM PORT	PART NUMBER
12	25	16mm	3/8" BSP	BCDT1225
16	25	16mm	3/8" BSP	BCDT1625
20	25	16mm	3/8" BSP	BCDT2025
20	30	16mm	3/8" BSP	BCDT2030
24	25	16mm	3/8" BSP	BCDT2425
24	30	16mm	3/8" BSP	BCDT2430

Pneumatic Brake Actuator c/w Clevis



TYPE	DESCRIPTION	PART NUMBER
T24	Pneumatic brake actuators with clevis	772600AB

Pneumatic Brake Actuator less Clevis

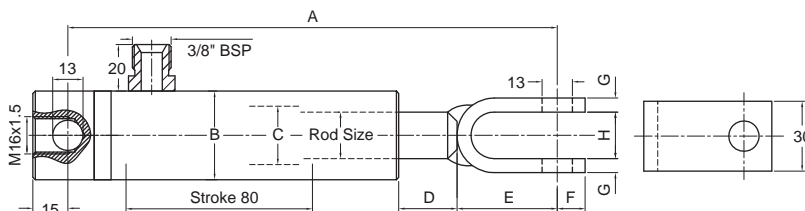


TYPE	DESCRIPTION	PART NUMBER
T12	Pneumatic brake actuators less clevis	772100AB
T16	Pneumatic brake actuators less clevis	772700AB
T20	Pneumatic brake actuators less clevis	772200AB
T30	Pneumatic brake actuators less clevis	772400AB

Clevises to suit Pneumatic Brake Actuator

DESCRIPTION	PART NUMBER
Standard Clevis to suit Brake Actuators T12, T20, T24 and T30	772500AB
Short Clevis to suit Brake Actuators T12, T20, T24 and T30	772501AB

SATURN



Brake Ram c/w Dual Pin Hole / Threaded Base - Pin Hole Clevis

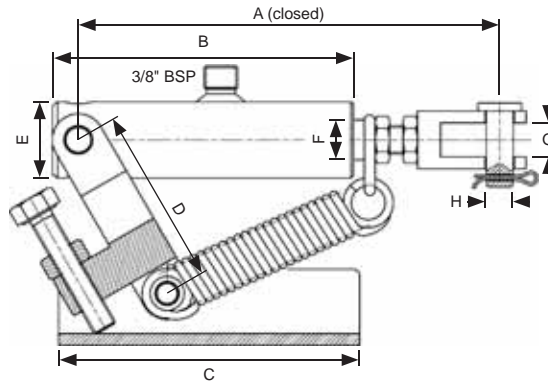
External Spring Return.

ROD SIZE	STROKE	DIMENSIONS								MAX WORKING PRESSURE	PORT SIZE MALE	PART NUMBER
		A	B	C	D	E	F	G	H			
20mm	80mm	210	38	25	25	43	12	6	20	250bar	3/8" BSP	BC2080TH
25mm	80mm	230	45	30	28	60	14	8	15	250bar	3/8" BSP	BC2580TH
30mm	80mm	230	45	35	28	60	14	8	15	230bar	3/8" BSP	BC3080TH

Springs to suit



LENGTH	OD	ID	WIRE Ø	PART NUMBER
190mm	27mm	19mm	4mm	BCS190
220mm	38mm	28mm	5mm	BCS220
235mm	27mm	19mm	4mm	BCS235



Dimensions

A	210
B	150
C	150
D	88
E	38
F	20
G	16
H	13.8

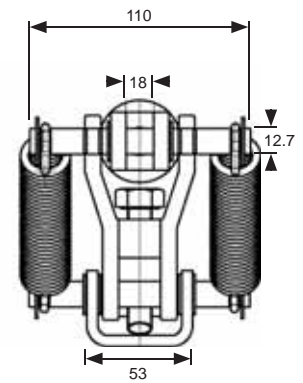
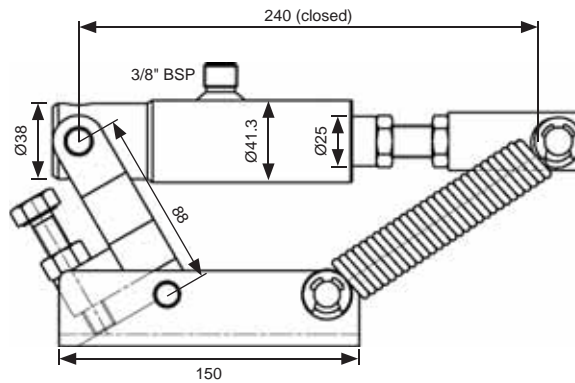
Brake Ram Kit - Single Spring Return

STROKE	MAX WORKING PRESSURE	PORT SIZE	OD	ROD SIZE	PART NUMBER
75mm	210 bar	3/8" BSP Male	38mm	20mm	D008



Replacement Parts to suit OLD Type Brake Ram Kits

REPLACEMENT PARTS TO SUIT	PART NUMBER
External spring	D008SPRING
Hook to suit spring	D008HOOK
Seal kit to suit D008 - WYE	SEISP0494
Seal kit to suit D008 - KAVEE	BCB2098SEAL



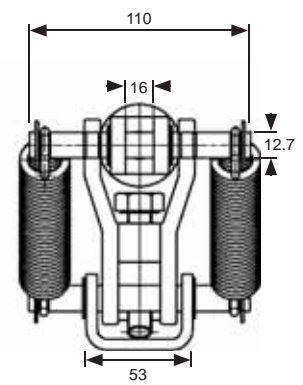
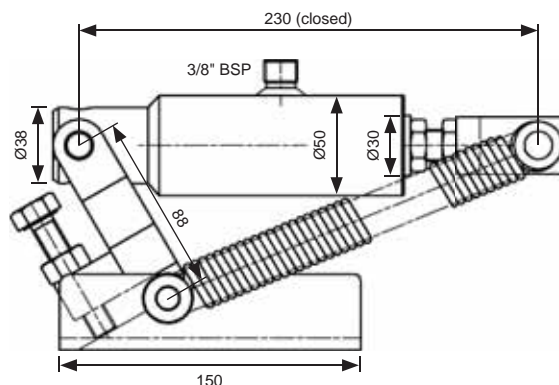
Brake Ram Kit - Double Spring Return

STROKE	MAX WORKING PRESSURE	PORT SIZE	OD	ROD SIZE	PART NUMBER
75mm	210 bar	3/8" BSP Male	38 / 41.3mm	25mm	BC2575C2B



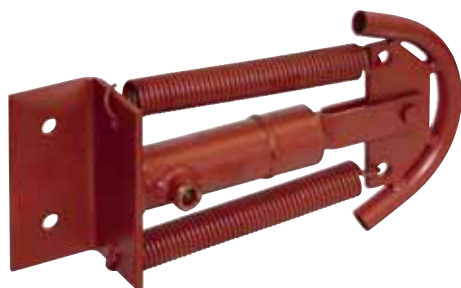
Replacement Parts to suit Brake Ram Kit - BC2575C2B

REPLACEMENT PARTS TO SUIT	PART NUMBER
External spring to suit BC2575C2B	BC2575C2BSPRING



Brake Ram Kit - Double Spring Return

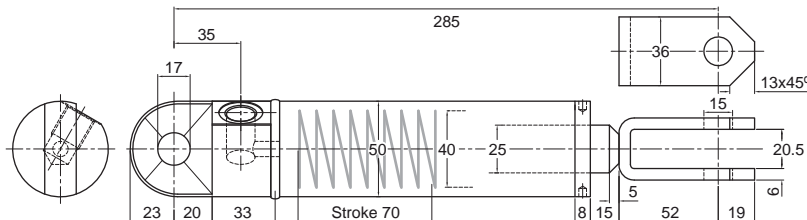
STROKE	MAX WORKING PRESSURE	PORT SIZE	OD	ROD SIZE	PART NUMBER
75mm	210 bar	3/8" BSP Male	38 / 50mm	30mm	BC3075C2A



Brake Ram with External Return Springs / Bracket

ROD SIZE	STROKE	MAX WORKING PRESSURE	PORT SIZE	PART NUMBER
			MALE	
35	90	-	3/8" BSP	F435

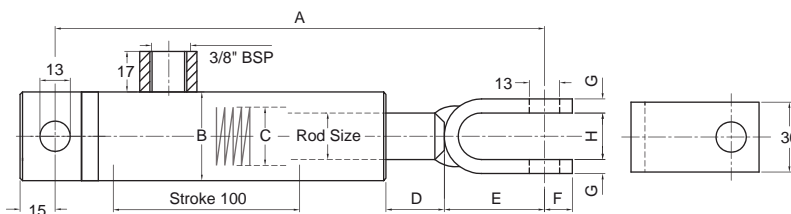
SATURN



Brake Ram
Internal spring return.

STROKE	MAX WORKING PRESSURE	PORT SIZE	ROD SIZE	PART NUMBER
		FEMALE		
70mm	250 bar	3/8" BSP	25mm	5600

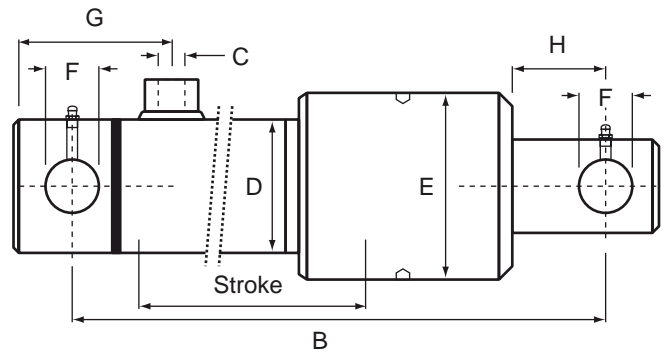
SATURN



Brake Ram
Internal Spring Return.

ROD SIZE	STROKE	DIMENSIONS								MAX WORKING PRESSURE	PORT SIZE	PART NUMBER
		A	B	C	D	E	F	G	H		MALE	
20mm	100mm	300	45	39	32	60	14	8	15	250 bar	3/8" BSP	BCS20100
25mm	100mm	300	45	39	32	60	14	8	15	250 bar	3/8" BSP	BCS25100
30mm	100mm	300	45	39	32	60	14	8	15	250 bar	3/8" BSP	BCS30100

SATURN



Single Acting ST Cylinder

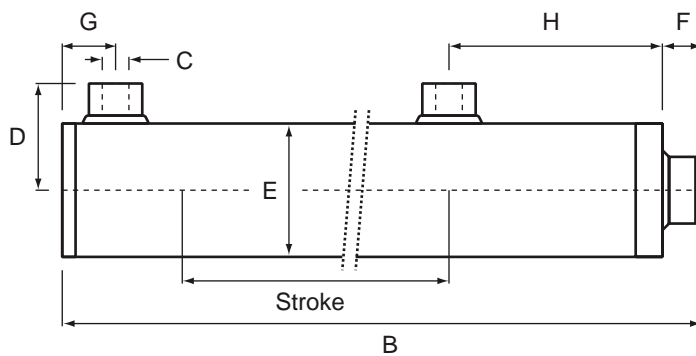
Working Pressure: 250bar

Material: Bore: St52, H10, Rod: 20MnV6, Chromium plated Ra 0.25, Head Nut: Cast iron, Welded port: Steel, Guide Ring: Plastic

Construction: Welded, single piece head nut and piston

ROD	STROKE	C	B	D	E	F	G	H	PART NUMBER
20	100	1/4"	178	35	50	10.2	26	15	EPL20100ST
	150	1/4"	228						EPL20150ST
	200	1/4"	278						EPL20200ST
	250	1/4"	328						EPL20250ST
30	100	1/4"	204	45	60	15.2	24	22	EPL30100ST
	150	1/4"	254						EPL30150ST
	200	1/4"	304						EPL30200ST
	250	1/4"	354						EPL30250ST
	300	1/4"	404						EPL30300ST
	350	1/4"	454						EPL30350ST
	400	1/4"	505						EPL30400ST
	500	1/4"	604						EPL30500ST
	600	3/8"	704						EPL30600ST
700	3/8"	804	EPL30700ST						
40	100	3/8"	232	55	70	20.4	39	40	EPL40100ST
	150	3/8"	282						EPL40150ST
	200	3/8"	332						EPL40200ST
	250	3/8"	382						EPL40250ST
	300	3/8"	432						EPL40300ST

ROD	STROKE	C	B	D	E	F	G	H	PART NUMBER						
40	350	3/8"	482	55	70	20.4	39	40	EPL40350ST						
	400	3/8"	532						EPL40400ST						
	500	3/8"	632						EPL40500ST						
	600	3/8"	732						EPL40600ST						
	700	3/8"	832						EPL40700ST						
	1000	3/8"	1132						EPL401000ST						
50	200	3/8"	361	65	80	25.4	37	35	EPL50200ST						
	300	3/8"	461						EPL50300ST						
	400	3/8"	561						EPL50400ST						
	500	3/8"	661						EPL50500ST						
	550	3/8"	711						EPL50550ST						
	600	3/8"	761						EPL50600ST						
	700	3/8"	861						EPL50700ST						
	1000	3/8"	1161						EPL501000ST						
	60	400	3/8"						578	75	90	25.4	39	43	EPL60400ST
		550	3/8"						728						EPL60550ST
700		3/8"	878	EPL60700ST											
70	300	3/8"	509	85	110	30.4	42	60	EPL70300ST						



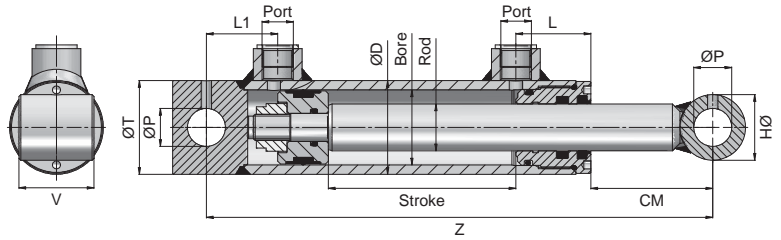
Double Acting Cylinder (Pre-Assembled)

Working Pressure: 250bar
 Material: Bore: St52, H10, Rod: 20MnV6, Chromium plated Ra 0.20, Head Nut: Cast iron, Welded port: Steel
 Construction: Welded, single piece head nut and piston
 Assembly: Mounting eyes to be ordered separately

ROD	BORE	STROKE	C	B	D	E	F	G	H	PART NUMBER
16	25	50	1/4"	135	33.5	35	40	18	44	KVD1625050
		100		185						KVD1625100
		125		255						KVD1625125
		150		235						KVD1625150
		175		305						KVD1625175
		200		285						KVD1625200
		250		380						KVD1625250
20	30	100	1/4"	236	37	40	40	20	44	KVD2030100
		125		261						KVD2030125
		175		311						KVD2030175
		300		436						KVD2030300
		350		486						KVD2030350
20	32	150	1/4"	255	37	42	16	20	33	KVD2032150
		200		305						KVD2032200
		300		405						KVD2032300
25	40	100	Contarini 1/4" Kramp 3/8"	230	42	50	45	17	47	KVD2540100
		150		280						KVD2540150
		200		330						KVD2540200
		250		380						KVD2540250
		300		430						KVD2540300
		350		480						KVD2540350
		400		530						KVD2540400
		450		580						KVD2540450
		500		630						KVD2540500
		600		730						KVD2540600
25	50	100	3/8"	240	47	60	47	19	53	KVD2550100
		150		290						KVD2550150
		200		340						KVD2550200
		250		390						KVD2550250
		300		440						KVD2550300
		350		490						KVD2550350
		400		540						KVD2550400
		450		590						KVD2550450
		500		640						KVD2550500
		600		740						KVD2550600
30	50	100	3/8"	256	47	60	47	19	53	KVD3050100
		150		290						KVD3050150
		200		340						KVD3050200
		250		390						KVD3050250
		300		440						KVD3050300
		350		490						KVD3050350
		400		540						KVD3050400
		450		590						KVD3050450
		500		640						KVD3050500
		600		740						KVD3050600
		700		840						KVD3050700
800	940	KVD3050800								
1000	1140	KVD30501000								

ROD	BORE	STROKE	C	B	D	E	F	G	H	PART NUMBER								
30	60	100	3/8"	260	52	70	39	24	58	KVD3060100								
		150		310						KVD3060150								
		200		360						KVD3060200								
		250		410						KVD3060250								
		300		460						KVD3060300								
		350		510						KVD3060350								
		400		560						KVD3060400								
30	60	450	3/8"	610	52	70	39	24	58	KVD3060450								
		500		660						KVD3060500								
		600		760						KVD3060600								
		800		960						KVD3060800								
		1000		1160						KVD30601000								
		35		60						100	3/8"	260	52	70	39	24	58	KVD3560100
										125		285						KVD3560125
										150		310						KVD3560150
200	360		KVD3560200															
250	410		KVD3560250															
300	460		KVD3560300															
350	510		KVD3560350															
400	560		KVD3560400															
450	610		KVD3560450															
500	660		KVD3560500															
600	760	KVD3560600																
800	960	KVD3560800																
1000	1160	KVD35601000																
35	70	100	3/8"	260	57	80	53	21	60	KVD3570100								
		150		310						KVD3570150								
		175		351						KVD3570175								
		200		360						KVD3570200								
		250		410						KVD3570250								
		300		460						KVD3570300								
		350		510						KVD3570350								
		400		560						KVD3570400								
		450		610						KVD3570450								
		500		660						KVD3570500								
600	760	KVD3570600																
800	960	KVD3570800																
1000	1160	KVD35701000																
45	80	100	1/2"	291	64	90	50	25	68	KVD4580100								
		150		341						KVD4580150								
		200		391						KVD4580200								
		250		441						KVD4580250								
		300		491						KVD4580300								
		350		541						KVD4580350								
		400		591						KVD4580400								
		450		641						KVD4580450								
		500		691						KVD4580500								
		600		791						KVD4580600								
		800		991						KVD4580800								
1000	1191	KVD45801000																

Note: Replacement Seal Kits on page 119.

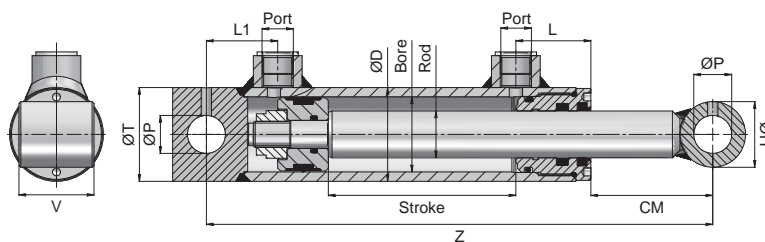


Double Acting Cylinder - Bushed (Unpainted)

Working Pressure: 210bar
 Material: Bore: St52.3 DIN2393 ISO H9
 Piston: 9SMn28
 Rod: Steel: UNI C45 SAE1045
 Chrome: 25Mn ±5 Rating 9/120 h ISO 10289 - 1999/ISO 9227-NSS

ROD	BORE	ØD	STROKE	Z	PORTS	L	L1	CM	ØP	ØH	V	ØT	PART NUMBER
16	25	35	50	160	1/4"	33	22	31	12.1	25	25	35	DAB1625050
			100	210									DAB1625100
			150	260									DAB1625150
			200	310									DAB1625200
20	32	42	50	205	1/4"	33	35	51	16.2	30	35	40	DAB2032050
			100	255									DAB2032100
			150	305									DAB2032150
			200	355									DAB2032200
			250	405									DAB2032250
			300	455									DAB2032300
			400	555									DAB2032400
			500	655									DAB2032500
25	40	50	100	270	3/8"	40	38	65	20.25	35	40	50	DAB2540100
			150	320									DAB2540150
			200	370									DAB2540200
			250	420									DAB2540250
			300	470									DAB2540300
			400	570									DAB2540400
			500	670									DAB2540500
			600	770									DAB2540600
			700	870									DAB2540700
800	970	DAB2540800											
30	50	60	100	300	3/8"	43	42	85	25.25	40	45	60	DAB3050100
			150	350									DAB3050150
			200	370									DAB3050200P*
			200	400									DAB3050200
			250	450									DAB3050250
			300	500									DAB3050300
			400	600									DAB3050400
			500	700									DAB3050500
			600	800									DAB3050600
			700	900									DAB3050700
			800	1000									DAB3050800
			900	1100									DAB3050900
1000	1200	DAB30501000											
30	60	70	100	300	3/8"	50	36	83	25.25	40	45	70	DAB3060100
			150	350									DAB3060150
			200	400									DAB3060200
			250	450									DAB3060250
			300	500									DAB3060300
			350	550									DAB3060350
			400	600									DAB3060400
			450	650									DAB3060450
			500	700									DAB3060500
			600	800									DAB3060600
700	900	DAB3060700											

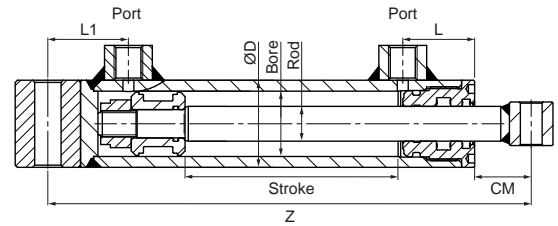
*DAB3050200P is supplied pre-painted in a gloss black finish



Double Acting Cylinder - Bushed (Unpainted)

Working Pressure: 210bar
 Material: Bore: St52.3 DIN2393 ISO H9
 Piston: 9SMn28
 Rod: Steel: UNI C45 SAE1045
 Chrome: 25Mn ±5 Rating 9/120 h ISO 10289 - 1999/ISO 9227-NSS

ROD	BORE	ØD	STROKE	Z	PORTS	L	L1	CM	ØP	ØH	V	ØT	PART NUMBER
35	60	70	200	400	3/8"	50	36	83	25.25	40	45	70	DAB3560200
			300	500									DAB3560300
			400	600									DAB3560400
			500	700									DAB3560500
			600	800									DAB3560600
			700	900									DAB3560700
			800	1000									DAB3560800
			900	1100									DAB3560900
			1000	1200									DAB35601000
40	70	80	200	410	3/8"	50	46	82	30.25	50	55	80	DAB4070200
			250	460									DAB4070250
			300	510									DAB4070300
			350	560									DAB4070350
			400	610									DAB4070400
			450	660									DAB4070450
			500	710									DAB4070500
			600	810									DAB4070600
			700	910									DAB4070700
			800	1010									DAB4070800
			900	1110									DAB4070900
40	80	92	200	410	3/8"	60	42	70	30.25	50	55	90	DAB4080200
			250	460									DAB4080250
			300	510									DAB4080300
			350	560									DAB4080350
			400	610									DAB4080400
			500	710									DAB4080500
			600	810									DAB4080600
			700	910									DAB4080700
			800	1010									DAB4080800
			900	1110									DAB4080900
			1000	1210									DAB40801000
50	100	115	200	425	1/2"	66	45	75	30.25	60	70	115	DAB50100200
			300	525									DAB50100300
			400	600									DAB50100400600
			400	625									DAB50100400
			500	725									DAB50100500
			700	925									DAB50100700
			900	1125									DAB50100900
			1000	1225									DAB501001000



Double Acting Cylinder - Bushed (Unpainted) - Special Application

Working Pressure: 210bar
 Material: Bore: St52.3 DIN2393 ISO H9
 Piston: 9SMn28
 Rod: Steel: UNI C45 SAE1045
 Chrome: 25Mn ±5 Rating 9/120 h ISO 10289 - 1999/ISO 9227-NSS

Note: Cylinder has two different bush sizes
 Body bush: ID 12.1, OD 30, Width 40
 Rod bush: ID 10.0, OD 20, Width 20

ROD	BORE	ØD	STROKE	Z	PORTS	L	L1	CM	BUSH SIZES	PART NUMBER
16	30	40	100	222	1/4"	33	37	26	(see note)	DAB1630100-12-10



Seal Kits to suit KVD Clinders

• To suit Contarini cylinders



DESCRIPTION	ROD	BORE	PART NUMBER
Complete seal kit to suit KVD1625 cylinders	16	25	KVD1625SK
Complete seal kit to suit KVD2540 cylinders	25	40	KVD2540SK
Complete seal kit to suit KVD2550 cylinders	25	50	KVD2550SK
Complete seal kit to suit KVD3050 cylinders	30	50	KVD3050SK
Complete seal kit to suit KVD3060 cylinders	30	60	KVD3060SK
Complete seal kit to suit KVD3560 cylinders	35	60	KVD3560SK
Complete seal kit to suit KVD3570 cylinders	35	70	KVD3570SK

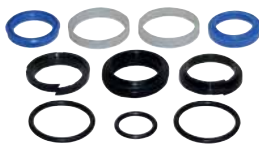


Seal Kits to suit DAB Clinders

• To suit Contarini cylinders



Complete seal kit



Piston seal kit

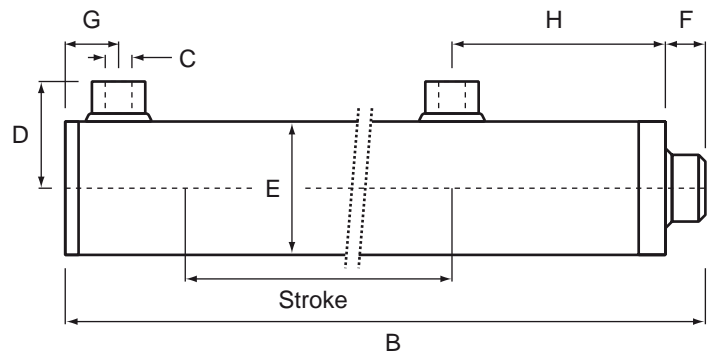


Head bush seal kit



DESCRIPTION	ROD	BORE	PART NUMBER
Complete seal kit to suit DAB1625 cylinders	16	25	DAB1625SK
Complete seal kit to suit DAB2032 cylinders	20	32	DAB2032SK
Piston seal kit to suit DAB2540	25	40	DAB2540SK1
Head bush seal kit to suit DAB2540			DAB2540SK2
Piston seal kit to suit DAB3050	30	50	DAB3050SK1
Head bush seal kit to suit DAB3050			DAB3050SK2
Piston seal kit to suit DAB3060	30	60	DAB3060SK1
Head bush seal kit to suit DAB3060			DAB3060SK2
Piston seal kit to suit DAB3560	35	60	DAB3060SK1
Head bush seal kit to suit DAB3560			DAB3560SK2
Piston seal kit to suit DAB4070	40	70	DAB4070SK1
Head bush seal kit to suit DAB4070			DAB4070SK2
Piston seal kit to suit DAB4080	40	80	DAB4080SK1
Head bush seal kit to suit DAB4080			DAB4080SK2
Piston seal kit to suit DAB50100	50	100	DAB50100SK1
Head bush seal kit to suit DAB50100			DAB50100SK2

SATURN



D.I.Y. Double Acting Cylinder Kit

Working Pressure: 250bar
 Material: Bore: St52, H10, Rod: 20MnV6, Chromium plated Ra 0.20, Head Nut: Steel with surface treatment, Welded port: Steel
 Construction: Single piece head nut and piston
 Assembly: Mounting eyes to be ordered separately

ROD	BORE	STROKE	C	B	D	E	F	G	H	PART NUMBER
20	30	350	1/4"	443	37	40	47	20	44	D2030300
60	100	500	1/2"	711	75.5	115	49	28	81	D60100500



SATURN

Customized Hydraulic Cylinders

Along with our standard SATURN range, we can also produce cylinders to your specifications.

- 30 years of experience in the field of cylinders
- A professional engineer and R&D department
- Modern ACAD and CAD-CAM systems
- Certified welders and welding methods
- Modern production facility and possibilities for single or large scale production
- ISO 9001-2000 certificate

Manufacturing Specifications:

- Stroke length up to 5000 mm
- Bore up to 360 mm
- Welded or screwed
- Single acting, double acting, telescopic (single and double acting)
- Standard range 0 - 250 bar, Standard range 0 - 320 bar
- Deviated working pressures on request
- Seals - reach temperature of -60 °c tot +170 °C, suction speed until 1 m/s, suitable for several types of oil (mineral/biologic) and other liquids
- Surface plating, Hard chromium, Double chromium, Induction hardened, Nikkel chromium
- Stainless Steel, Ceramic, Nitrocarbonated
- Certified: 31B, 31C, Lloyd's, ABS, etc.

SATURN

Double Acting Cylinder Cronis I Replacement parts

TO SUIT ROD	TO SUIT BORE	PISTON	GLAND NUT	CAP	RAM PORT		SEAL KIT TO SUIT D/A RAM
mm	mm						
16	25	DC2902504VM	DC2902513016	DC3902501	1/4"	LSN04E	DC251625000
20	30	DC2903004VM	DC2903013020	DC3903001	1/4"	LSN04E	DC252030000
25	40	DC2904004VM	DC2904013025	DC3904001	3/8"	LSN06E	DC252540000
25	50	DC2905004VM	DC2905013025	DC3905001	3/8"	LSN06E	DC252550000
30	50	DC2905004VM	DC2905013030	DC3905001	3/8"	LSN06E	DC253050000
30	60	DC2906004VM	DC2906013030	DC3906001	3/8"	LSN06E	DC253060000
35	60	DC2906004VM	DC2906013035	DC3906001	3/8"	LSN06E	DC253560000
35	70	DC2907004VM	DC2907013035	DC3907001	3/8"	LSN06E	DC253570000
45	80	DC2908004VM	DC2908013045	DC3908001	1/2"	LSN08E	DC254580000
60	100	DC2910004VM	DC2910013060	DC3910001	1/2"	LSN08E	DC256010000

Note: When ordering replacement parts to suit SATURN Double Acting Cylinders please ensure you identify if the cylinder is a CRONIS I or II as parts are unique to each cylinder. CRONIS I (old type) has a Piston secured to the rod by a nut, and CRONIS II (new type) has a piston secured with a special retaining ring.

SATURN

Double Acting Cylinder Cronis II Replacement parts

TO SUIT ROD	TO SUIT BORE	PISTON	GLAND NUT	CAP	RAM PORT		SEAL KIT TO SUIT D/A RAM
mm	mm						
16	25	DS2902504	DS2902513016	DS3902501A	1/4"	LSN04E	DS251625000
20	30	DS2903004	DS2903013020	DS3903001A	1/4"	LSN04E	DS252030000
25	40	DS2904004	DS2904013025	DS3904001A	3/8"	LSN06E	DS252540000
25	50	DS2905004	DS2905013025	DS3905001A	3/8"	LSN06E	DS252550000
30	50	DS2905004	DS2905013030	DS3905001A	3/8"	LSN06E	DS253050000
30	60	DS2906004	DS2906013030	DS3906001A	3/8"	LSN06E	DS253060000
35	60	DS2906004	DS2906013035	DS3906001A	3/8"	LSN06E	DS253560000
35	70	DS2907004	DS2907013035	DS3907001A	3/8"	LSN06E	DS253570000
45	80	DS2908004	DS2908013045	DS3908001A	1/2"	LSN08E	DS254580000
60	100	DS2910004	DS2910013060	DS3910001A	1/2"	LSN08E	DS256010000



Vent

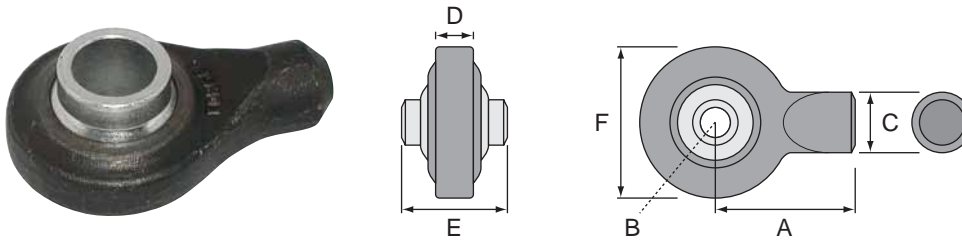
THREAD	PART NUMBER
1/4" BSP	OF04
3/8" BSP	OF06

THREAD	PART NUMBER
1/2" BSP	OF08
1" BSP	OF16

Weld On Bush with Threaded Hole for Grease Nipple to suit Double Acting Cylinders



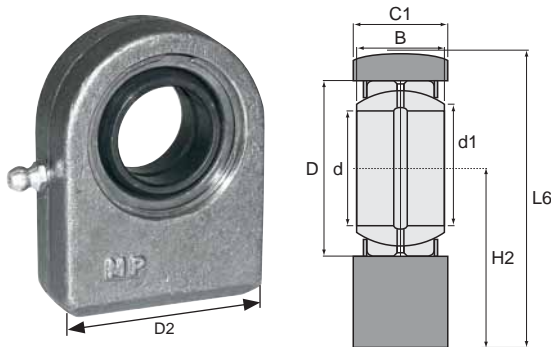
ID	OD	LENGTH	PART NUMBER
12.10	25	25	WOB122525
16.20	30	35	WOB163035
20.25	35	40	WOB203540
25.50	50	45	WOB255045
30.50	50	55	WOB305055
30.50	65	70	WOB306570



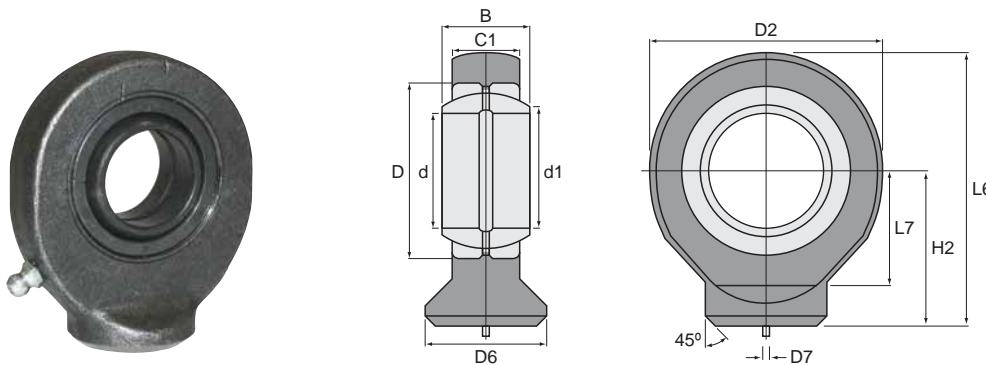
Weld-On Ball End - Round Head

TYPE	SIZE	A	B	HOLE SIZE	C	D	E	F	PART NUMBER
Standard	CAT 1	55mm	19mm	3/4"	25.4mm	12mm	44.5mm	54mm	P324
Standard	CAT 2	73mm	25.4mm	1"	30mm	16mm	50.8mm	76mm	P325
Heavy Duty	CAT 3	85mm	32mm	1 1/2"	36mm	22mm	50.8mm	100mm	P326H

Rod End with Welding Face - Series GF..DO



d	B	D	d1	D2	H2	L6	C1	PART NUMBER
20	16	35	24.1	50	38	63	19	GF20DO
25	20	42	29.3	55	45	72.5	23	GF25DO
30	22	47	34.2	65	51	83.5	28	GF30DO
35	25	55	39.7	83	61	102.5	30	GF35DO
40	28	62	45	100	69	119	35	GF40DO
45	32	68	50.7	110	77	132	40	GF45DO
50	35	75	55.9	123	88	149.5	40	GF50DO
60	44	90	66.8	140	100	170	50	GF60DO
70	49	105	77.8	164	115	197	55	GF70DO
80	55	120	89.4	180	141	231	60	GF80DO
90	60	130	98.1	226	150	263	65	GF90DO
100	70	150	109.5	250	171	295	70	GF100DO



Rod End with Round Welding Flange - Series GK..DO

d	B	D	d1	D2	H2	L6	C1	D6	D7	L7	PART NUMBER
10	9	19	13.2	29	24	38.5	7	15	3	15	GK10DO
12	10	22	14.9	34	27	44	8	17.5	3	18	GK12DO
15	12	26	18.4	40	31	51	10	21	4	20	GK15DO
17	14	30	20.7	46	35	58	11	24	4	23	GK17DO
20	16	35	24.1	53	38	64.5	13	27.5	4	27	GK20DO
25	20	42	29.3	64	45	77	17	33.5	4	32	GK25DO
30	22	47	34.2	73	51	87.5	19	40	4	37	GK30DO
35	25	55	39.7	82	61	102	21	47	4	42	GK35DO
40	28	62	45	92	69	115	23	52	4	48	GK40DO
45	32	68	50.7	102	77	128	27	58	6	52	GK45DO
50	35	75	55.9	112	88	144	30	62	6	60	GK50DO
60	44	90	66.8	135	100	167.5	38	70	6	75	GK60DO
70	49	105	77.8	160	115	195	42	80	6	87	GK70DO
80	55	120	89.4	180	141	231	47	95	6	100	GK80DO

Standard Hydraulic Top Link

Fitting guidelines shown on Page 122a



ROD mm	BORE mm	OD mm	PORTS	ADJUSTMENT		STROKE mm	END	SEAL KIT TO SUIT	PART NUMBER
				FROM	TO				
30	50	60	3/8" BSP	440	640	200	Cat 1	DC253050000	TOP20
30	50	60	3/8" BSP	550	835	285	Cat 1	DC253050000	3050550HTL
35	70	80	3/8" BSP	550	770	220	Cat 2	SK21 / SK24*	3570250HTL
35	70	80	3/8" BSP	606	876	270	Cat 2	SK21 / SK24*	3570300600HTL
35	70	80	3/8" BSP	650	964	314	Cat 2	SK21 / SK24*	3570300630HTL

*Note: SK21 is to suit SATURN type hydraulic top link, SK24 is to suit NEW type.

Standard Hydraulic Top Link c/w Safety Valve

Fitting guidelines shown on Page 122a



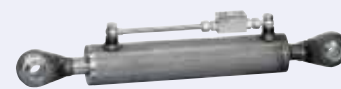
ROD mm	BORE mm	OD mm	PORTS	ADJUSTMENT		STROKE mm	END	SEAL KIT TO SUIT	PART NUMBER
				FROM	TO				
35	70	80	3/8" BSP	550	770	220	Cat 2	SK21 / SK24*	3570250SVHTL
35	70	80	3/8" BSP	606	876	270	Cat 2	SK21 / SK24*	3570300600SVHTL
35	70	80	3/8" BSP	650	964	314	Cat 2	SK21 / SK24*	3570300630SVHTL

*Note: SK21 is to suit SATURN type hydraulic top link, SK24 is to suit NEW type.



Double pilot check valve for direct mounting, protects movement of ram in case of leakage. Use as a safety device.

Applications:
Hydraulic Doors, Side
Legs, Top Links etc.



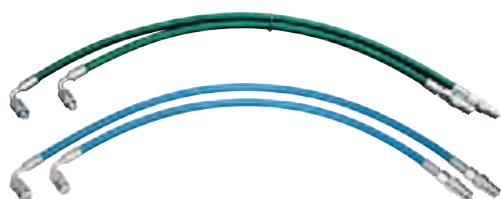
Universal Anti-Creep Valve c/w Banjo Bolts

PORTS	PILOT RATIO	MAX FLOW	MAX PRESSURE	CRACKING PRESSURE	LENGTH ADJUSTMENT		PART NUMBER
					MINIMUM	MAXIMUM	
3/8" BSP	1 : 5.5	35 lpm	350 bar	3 bar	170mm	625mm	FPD382R08027
1/2" BSP	1 : 5	50 lpm	350 bar	3 bar	205mm	560mm	FPD122R08027

Replacement Banjo Tubes



EYE SIZE	TUBE LENGTH	PART NUMBER
3/8"	40mm	FPD380040
3/8"	500mm	FPD380500
1/2"	400mm	FPD120400



Standard Hydraulic Top Link Hose Assembly Kit

Contains: 2 Hoses, 760mm and 920mm. 3/8" hose, 90° and adaptors one end with 1/2" quick release coupling on the other end.

DESCRIPTION	COLOUR	PART NUMBER
Hose assembly kit to fit hydraulic toplinks	Black	TLHK1
Hose assembly kit to fit hydraulic toplinks	Blue	TLHKBLUE

Hydraulic Top Link c/w Ball & Hook End

Working pressure: 250bar

Material:

- Tube: St52, H10
 - Rod: 20MnV6, chromed Ra 0.20
 - Nut: Cast iron or steel
 - Welding nipple: Steel
- Equipped with ball, cable, safety valve and hook



Fitting guidelines shown on Page 358a

ROD mm	BORE mm	OD mm	PORTS	CLOSED CENTRES	STROKE	MOUNTINGS		SEAL KIT TO SUIT	PART NUMBER
						BOTTOM	ROD END		
30	50	60	3/8" BSP	440mm	150mm	Cat 1	Cat 1 hook	DC253050000	305015011HTL
30	50	60	3/8" BSP	490mm	200mm	Cat 1	Cat 1 hook	DC253050000	305020011HTL
30	50	60	3/8" BSP	590mm	285mm	Cat 2	Cat 2 hook	DC253050000	305028522HTL
35	63	73	3/8" BSP	560mm	230mm	Cat 2	Cat 2 hook	DC253563000	356323022HTL
35	63	73	3/8" BSP	590mm	250mm	Cat 2	Cat 2 hook	DC253563000	356325022HTL
35	63	73	3/8" BSP	620mm	300mm	Cat 2	Cat 2 hook	DC253563000	356330022HTL
35	70	80	3/8" BSP	610mm	250mm	Cat 2	Cat 3 hook	DC253570000	357025023HTL
35	70	80	3/8" BSP	630mm	250mm	Cat 3	Cat 3 hook	DC253570000	357025033HTL
35	70	80	3/8" BSP	640mm	300mm	Cat 2	Cat 3 hook	DC253570000	357030023HTL
35	70	80	3/8" BSP	660mm	300mm	Cat 3	Cat 3 hook	DC253570000	357030033HTL

Hydraulic Top Link c/w Hook and Open End

Clevis for Open End needs to be purchased separately (see below)

Working pressure: 250bar

Material:

- Tube: St52, H10
- Rod: 20MnV6, chromed Ra 0.20
- Nut: Cast iron or steel
- Welding nipple: Steel

Construction:

Cap nut and piston in 1 part. Fitted with a double controlled non-return valve

Technical Information:

Tractors 74kW = 63mm bore, Tractors 135kW = 70mm bore, Tractors 206kW = 90mm bore,



Fitting guidelines shown on Page 358a

ROD mm	BORE mm	OD mm	PORTS	CLOSED CENTRES	STROKE	MOUNTINGS		SEAL KIT TO SUIT	PART NUMBER
						BOTTOM	ROD END		
35	63	73	3/8" BSP	505mm	180mm	20mm eye	Cat 2 hook	DC253563000	3563180K2HTL
35	63	73	3/8" BSP	555mm	230mm	20mm eye	Cat 2 hook	DC253563000	3563230K2HTL
35	70	80	3/8" BSP	540mm	185mm	25mm eye	Cat 3 hook	DC253570000	3570185K3HTL
35	70	80	3/8" BSP	605mm	250mm	25mm eye	Cat 3 hook	DC253570000	3570250K3HTL
40	90	102	3/8" BSP	565mm	185mm	25mm eye	Cat 3 hook	DC254090000	4090185K3HTL
40	90	102	3/8" BSP	640mm	250mm	25mm eye	Cat 3 hook	DC254090000	4090250K3HTL

Note: Closed Centres measurement does not include the length of the clevis.

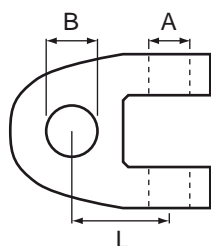
Short



Long



Clevis to suit Hydraulic Top Link with Open End

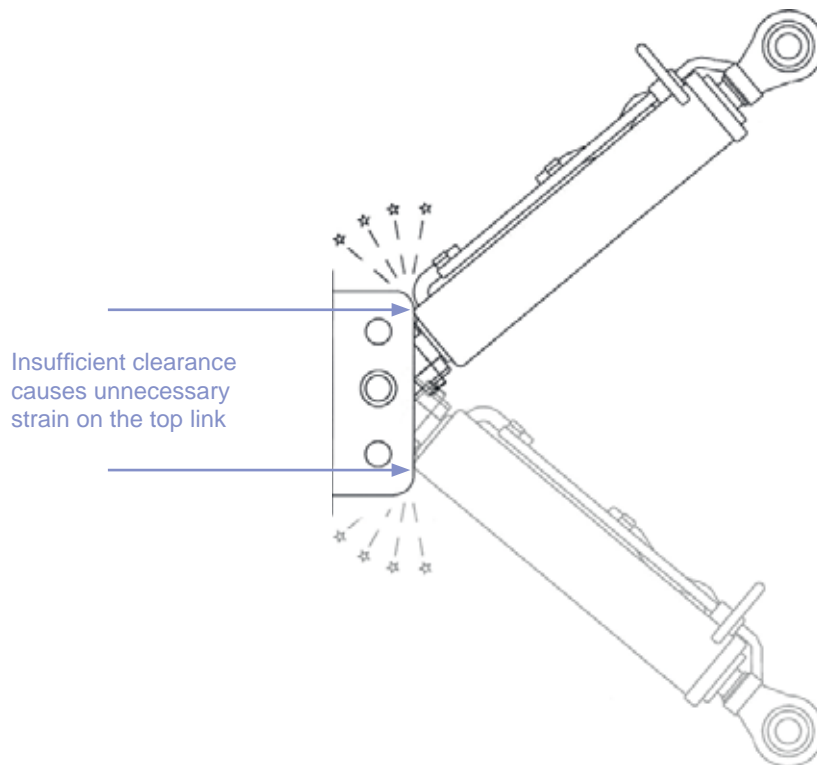


TYPE	TO SUIT TOPLINK	A	B	L	THICKNESS	PART NUMBER
		mm	mm	mm		
Short	Cat 2	20	19.3	46.5	44	TL20193465
Short	Cat 2	20	22.2	46.5	44	TL20222465
Short	Cat 2	20	25.7	46.5	44	TL20257465
Short	Cat 3	25	28.2	63.0	50	TL25282630
Short	Cat 3	25	32.3	63.0	50	TL25323630
Short	Cat 3	25	35.2	63.0	50	TL25352630
Long	Cat 3	25	32.3	100.0	50	TL25323100
Long	Cat 3	25	35.2	100.0	50	TL25352100

Correct Fitting of Hydraulic Top Link




To avoid damage or breakage to Hydraulic Top Link it is essential to ensure there is sufficient clearance when fitting.






Hydraulic Ram (Gas Return) to suit MZ Gate Valves


TYPE	TO SUIT	SEAL KIT TO SUIT	REPLACEMENT PISTON	PART NUMBER
	MZ 4" Gate valve	-	-	0004004
	MZ 6" Gate valve	SK1	0003001	0003000
	MZ 8" Gate valve	-	-	0008000CZ

Hydraulic Ram (Gas Return) to suit RIV Gate Valves


TYPE	TO SUIT	SEAL KIT TO SUIT	REPLACEMENT PISTON	PART NUMBER
	RIV Gate valve	SK1	-	0005000



Double Acting Hydraulic Ram to suit MZ Gate Valves

TYPE	TO SUIT	PART NUMBER
	MZ 6" Gate valve	6003055DW
	MZ 8" Gate valve	0008000DA

Spring Loaded Hydraulic Ram to suit MZ Gate Valve

TYPE	TO SUIT	PORT	SEAL KIT TO SUIT	REPLACEMENT SPRING	PART NUMBER
	4" valve	3/8" Female	-	-	0004400
	6" valve	3/8" Female	SK25	0004SPRING	Replaced by 0004005
	6" valve	3/8" Male	-	-	0004005
	8" valve	M18x1.5 Male	-	-	0008000



Single-acting Hydraulic Jack with Spring Return

OUTSIDE TUBE	CLOSED HEIGHT	STROKE	STATIC LOAD CAPACITY (150 bar)	SEAL KIT TO SUIT	PART NUMBER
102	448	250	8200 Kg	DH9714S	DH714
102	470	250	8500 Kg	SP985	SP85250CS*

* Supplied with quick release drop down plate / pins.



Replacement Parts to suit SP85250CS

DESCRIPTION	PART NUMBER
Replacement pin to suit SP85250CS	SP9PIN



Double-Acting Hydraulic Jack

With pre-mounted bracket

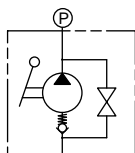
OUTSIDE TUBE	CLOSED HEIGHT	SCREW STROKE	STATIC LOAD CAPACITY	PART NUMBER
110	760	400	3800 Kg (@ 100 bar)	10176BR*

Introduction to Hand Pumps

Our hand pumps are an ideal solution in low-cost applications and simple mechanical systems where heavy handwork has to be done and lightened, eg. in hydraulic jacks, small mobile cranes, tilting cabins and platform lifts. The hand pumps are constructed with or without an integrated oil tank and hydraulic functions (eg. a 2/2 valve). In this group of pumps one can choose from different integrated oil tank capacities, hydraulic functions, stroke volumes and operating pressures, and a choice can be made between manual and foot operation.

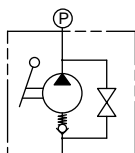
PM 20 / 50 / 70 Single Acting Hand Pumps

Design: Hand pump with shut off valve less handle
 Action: Pumps on both Push and Pull stroke
 Application: Single acting cylinders
 To be used from: Medium pressure and large stroke volume



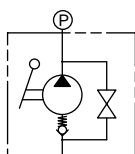
PM20 Hand Pump - Supplied without Handle

MAX PRESSURE	DISPLACEMENT cm ³			PORTS		PART NUMBER
	FULL	PULL	PUSH	PRESSURE END	TANK END	
300 bar	20cm ³	10.8cm ³	9.2cm ³	3/8" BSP	1/2" BSP	PM20
Handle to suit						PM920



PM50 Hand Pump - Supplied without Handle

MAX PRESSURE	DISPLACEMENT cm ³			PORTS		PART NUMBER
	FULL	PULL	PUSH	PRESSURE END	TANK END	
250 bar	50cm ³	29.8cm ³	20.7cm ³	1/2" BSP	1/2" BSP	PM50
Handle to suit						PMS96901332



PM70 Hand Pump - Supplied without Handle

MAX PRESSURE	DISPLACEMENT cm ³			PORTS		PART NUMBER
	FULL	PULL	PUSH	PRESSURE END	TANK END	
200 bar	70cm ³	37.1cm ³	32.9cm ³	1/2" BSP	1/2" BSP	PM70
Handle to suit						PMS96901330



HP12.1 Single Acting Hand Pump

Compact single acting hand pump with built-in pressure relief valve, 1.2 litre oil reservoir and lowering valve. The unit must be placed horizontally.

DESCRIPTION	PART NUMBER
Single acting hand pump with 1.2 litre tank	HP121M



Single Acting Hand Pump c/w 3 Litre Tank

Working Volume: 18cm³
 Rated Pressure: 200 bar
 Application: Single acting cylinders
 Supplied with Handle

TANK CAPACITY	MAX PRESSURE	DISPLACEMENT	PART NUMBER
3 litre	200 bar	18 cm ³	PRP18S3LT

Build Your Own Hand Pump

Single Acting Hand Pump c/w Handle

Application: Single acting cylinders

TANK CAPACITY	MAX PRESSURE	DISPLACEMENT	PART NUMBER
-	200 bar	18 cm ³	PRP18S
-	160 bar	25 cm ³	PRP25S



Tank to suit Single Acting Hand Pump

TANK CAPACITY	DESCRIPTION	PART NUMBER
2 litre	Round tank to suit S/A hand pump	HPT2L
3 litre	Round tank to suit S/A hand pump	HPT3L
5 litre	Round tank to suit S/A hand pump	HPT5L
7 litre	Round tank to suit S/A hand pump	HPT7L



Double Acting Hand Pump c/w 3 Litre Tank

Working Volume: 25cm³
 Rated Pressure: 250 bar
 Application: Double acting cylinders
 Supplied with Handle

TANK CAPACITY	MAX PRESSURE	DISPLACEMENT	PART NUMBER
3 litre	250 bar	25 cm ³	PRBD253LT

Build Your Own Hand Pump

Double Acting Hand Pump c/w Handle

Application: Double acting cylinders

TANK CAPACITY	MAX PRESSURE	DISPLACEMENT	PART NUMBER
-	250 bar	25 cm ³	PRBD25



Tank to suit Double Acting Hand Pump

TANK CAPACITY	DESCRIPTION	PART NUMBER
1 litre	Square tank to suit D/A hand pump	HPTS1LT
2 litre	Square tank to suit D/A hand pump	HPTS2LT
3 litre	Square tank to suit D/A hand pump	HPTS3LT
5 litre	Square tank to suit D/A hand pump	HPTS5LT
7 litre	Square tank to suit D/A hand pump	HPTS7LT



Replacement Handle to suit Hand Pump

DESCRIPTION	PART NUMBER
Replacement handle to suit hand pump	PRHANDLE




Power Packs shown are complete with Cetop Valves which are not supplied with standard units.

Modular Power Pack Units with Aluminium Tank, Suction and Return Line Filter

1 Phase 220-240V

TANK SIZE	PUMP CC	MAX FLOW	MOTOR	VOLTAGE	MAX WORKING PRESURE	PART NUMBER
30 litres	2.0	2.8 lpm	2.2 kW 1395 rev/min	230V	250 bar	MPP001
30 litres	4.0	5.6 lpm	2.2 kW 1395 rev/min	230V	212 bar	MPP002
30 litres	6.5	9.1 lpm	2.2 kW 1395 rev/min	230V	131 bar	MPP003
30 litres	8.3	11.6 lpm	2.2 kW 1395 rev/min	230V	102 bar	MPP004

3 Phase 380-400V

TANK SIZE	PUMP CC	MAX FLOW	MOTOR	VOLTAGE	MAX WORKING PRESURE	PART NUMBER
44 litres	6.5	9.2 lpm	3.0 kW 1410 rev/min	400V	176 bar	MPP005
44 litres	8.3	11.7 lpm	3.0 kW 1410 rev/min	400V	138 bar	MPP006
44 litres	8.3	11.7 lpm	4.0 kW 1410 rev/min	400V	184 bar	MPP007
44 litres	11.1	15.7 lpm	4.0 kW 1410 rev/min	400V	138 bar	MPP008
70 litres	11.1	15.7 lpm	4.0 kW 1410 rev/min	400V	138 bar	MPP009
70 litres	11.1	15.9 lpm	5.5 kW 1435 rev/min	400V	186 bar	MPP010
70 litres	14.4	20.7 lpm	5.5 kW 1435 rev/min	400V	143 bar	MPP011
70 litres	16.6	23.4 lpm	7.5 kW 1410 rev/min	400V	173 bar	MPP012

We can customise Power Packs to suit your requirements with short delivery times.



Penta Wet Kits are the best option for the maximum efficiency of our cylinders : superior quality components, for the best efficiency, durability, power and precision under any working condition.



Flow Control Valves

Wide range of hydraulic tipping valves, pneumatically or mechanically operated, with or without rope operated end-of-stroke.

For remote or tank mounting, end-of-stroke devices, descent speed control valves. Max relief valves for remote mounting for both under-body and front-end cylinders. Truck/trailer oil diverters.



Power Take-off

One of the largest selections of Power Take Off's available for ZF, Eaton/Fuller, Mercedes, Scania, Volvo, Iveco, Kamaz, and many more.

Once we know the application and the gearbox model, HS PENTA selects for you the best PTO option.



Devices and Pneumatic Switches

Complete range of cab controls and accessories, switches and handles to operate the PTO and tipping valve.

Mechanical cable control, both lever and push-pull type.



Pumps

HS PENTA offers the best pump for the requested application.

High-pressure gear pumps, for pressure up to 300 bars.

Swash plate and bent axis design piston pumps, 3 and 4 bolt ISO flange.



Oil Tanks

As for the other components, HS PENTA can fulfil any demand and complete your wet kit with the best size of oil tank.

Side mounted, rear cab and chassis mounted tanks in painted steel, stainless steel, aluminium. Mounting block for tipping valve and oil filter provision (return line) as option.

STONE

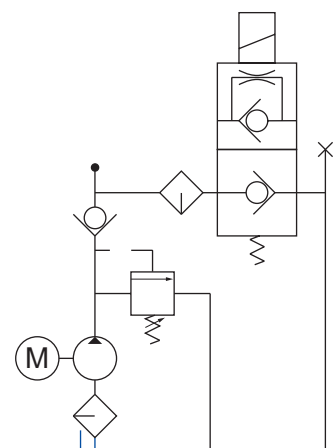


DC Hydraulic Power Unit Applications

No	VOLTAGE	MAXIMUM PRESSURE	TANK SIZE	PUMP	ADDITIONAL INFORMATION	PART NUMBER
-	12V	180 bar	5 litres	3.1cc	Power pack with 5 litre tank complete with pressure switch (hand pump not included)	UD2233B
1	12V	200 bar	6 litres	2.0cc	Double acting power pack c/w 4/2 valve. No hold function. Suitable for low loader ramps etc.	UD2244A
1	12V	180 bar	7 litres	3.1cc	Power pack with 7 litre tank without hand pump suitable for 3½ Tonne Tippers	UD1845A
1	24V	180 bar	7 litres	3.1cc	Power pack with 7 litre tank without hand pump suitable for 3½ Tonne Tippers	UD2116B
1	12V	210 bar	9.8 litres	3.1cc	Power pack with 9.8 litre tank suitable for Tippers	UD2259B
1	24V	210 bar	9.8 litres	3.1cc	Power pack with 9.8 litre tank suitable for Tippers	UD2262B
2	24V	180 bar	14 litres	4.0cc	Power pack with 14 litre steel tank with extended heavy duty motor suitable for 7½ Tonne Tippers	UD2578
3	24V	180 bar	15 litres	4.0cc	Power pack with 15 litre steel tank with extended heavy duty motor suitable for 7½ Tonne Tippers	UD2588



These power units have been designed for Dump Truck applications with power lift, hold and gravity lowering via a solenoid or manual release valve. Various tank sizes can be supplied to suit hydraulic cylinder capacities. An option to add a "Tipper Up" indication or warning pressure switch is available.



Typical Hydraulic Circuit



Control to suit Power Pack

DESCRIPTION	PART NUMBER
12 volt 2 button hand control to suit power pack	EF7119



Controller Adaptor Cable

DESCRIPTION	PART NUMBER
Adaptor cable to convert EF7119 for use on 24V	3467AA



Wiring Loom to suit Power Pack

DESCRIPTION	PART NUMBER
Fits directly onto power pack socket for wiring controls into cab	EF5092



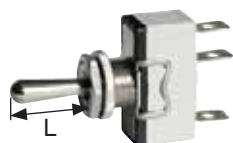
2 Button UP / DOWN Switch

DESCRIPTION	PART NUMBER
2 button UP / DOWN switch with led light for cab mounting	1491550027



Momentary UP / DOWN Switch - Plastic

DESCRIPTION	PART NUMBER
Momentary UP / DOWN switch for cab mounting	12201101150



Momentary UP / DOWN Switch - Steel

FUNCTION	L	POSITIONS	PART NUMBER
MOM - OFF - MOM	17.5	3	SAL400459

Note: ON = Permanent OFF = Momentary



Power Pack Protection Cover

DESCRIPTION	PART NUMBER
Power pack protection cover	KF0037



Lowering Solenoid Coil

DESCRIPTION	PART NUMBER
12V Lowering solenoid coil	EF1097
24V Lowering solenoid coil	EF1098



Smart Start Switch Kit

DESCRIPTION	PART NUMBER
12 / 24V Smart start switch kit	KS5



Hydraulic Test Unit

An easy to use range of portable tester for field and workshop testing of hydraulic circuits. The RFIK series of reversible hydraulic test kits requires no batteries or external power.

FLOW RANGE	PRESSURE RANGE	TEMPERATURE RANGE	PART NUMBER
5 - 120 lpm	420 bar	20 - 110°C	RFIK120
10 - 200 lpm	420 bar	20 - 110°C	RFIK200



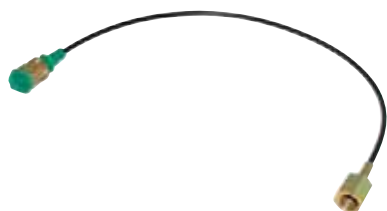
Test Point Adaptor

DESCRIPTION	PART NUMBER
1/4" x 1/8" Test point adaptor	626-04-04TP
3/8" x 1/8" Test point adaptor	626-06-06TP
1/2" x 1/8" Test point adaptor	626-08-08TP
3/4" x 1/8" Test point adaptor	626-12-12TP
1" x 1/4" Test point adaptor	626-16-16TP



Test Point Coupling

DESCRIPTION	PART NUMBER
1/8" BSP Test point coupling	TP02
1/4" BSP Test point coupling	TP04



Test Point Hose Assembly

COUPLING ENDS	LENGTH	PART NUMBER
16mm x 2.0 Female and 1/4" BSP Female	0.5m	TPHA500
16mm x 2.0 Female and 1/4" BSP Female	1.0m	TPHA1000
16mm x 2.0 Female and 1/4" BSP Female	2.0m	TPHA2000
16mm x 2.0 Female on both ends	0.5m	TPHA500M16
16mm x 2.0 Female on both ends	1.0m	TPHA1000M16
16mm x 2.0 Female on both ends	2.0m	TPHA2000M16



Adjustable Pressure Switch - K4 Series

K4 adjustable pressure switches permit opening or closing of an electric circuit upon reaching predetermined pressure valve. The preset pressure is found by rotating the external screw located at the centre of the instrument clockwise to increase and vice-versa to decrease the pressure set point value.

Maximum load: 2 Amp at 48 Volt AC, 1 Amp at 48 Volt DC

Normally Open →|:

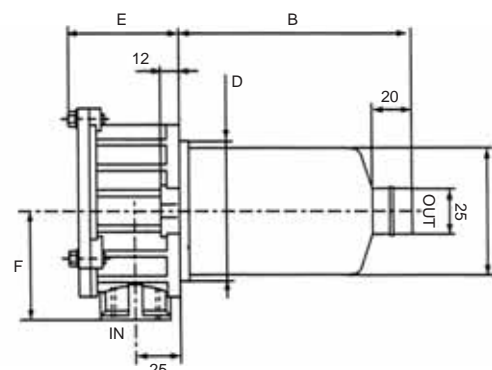
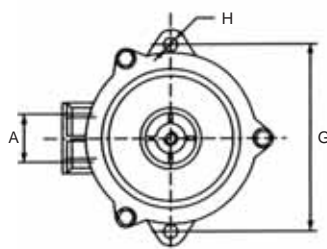
PRESSURE RANGE	MAXIMUM PRESSURE	CONNECTION	PROTECTION CAP	1/8" BSP THREAD	1/4" BSP THREAD
1 - 12 bar	300 bar	6.3mm Spade	Yes	K4SPAF0P1	K4SPAF1P1
5 - 50 bar	300 bar	6.3mm Spade	Yes	K4TPAF0P1	K4TPAF1P1
10 - 100 bar	300 bar	6.3mm Spade	Yes	K4VAF0P1	K4VAF1P1
20 - 200 bar	300 bar	6.3mm Spade	Yes	K4ZAF0P1	K4ZAF1P1
50 - 400 bar	600 bar	6.3mm Spade	Yes	K4YAF0P1	K4YAF1P1

Normally Closed →|:

PRESSURE RANGE	MAXIMUM PRESSURE	CONNECTION	PROTECTION CAP	1/8" BSP THREAD	1/4" BSP THREAD
1 - 12 bar	300 bar	6.3mm Spade	Yes	K4SPCF0P1	K4SPCF1P1
5 - 50 bar	300 bar	6.3mm Spade	Yes	K4TPCF0P1	K4TPCF1P1
10 - 100 bar	300 bar	6.3mm Spade	Yes	K4VCF0P1	K4VCF1P1
20 - 200 bar	300 bar	6.3mm Spade	Yes	K4ZCF0P1	K4ZCF1P1
50 - 400 bar	600 bar	6.3mm Spade	Yes	K4YCF0P1	K4YCF1P1

In Tank Mounting Filter

Design: Return filter
 Working pressure: Maximum 3 bar N (standard) type, maximum 10 bar H-type
 Temperature: -25°C to +110°C
 Material: Cavity: Aluminium
 Seals: NBR, viton on request
 Mounting: Tank mounting (BSP), on request NPT and SAE port
 Flow: Depends on type
 Filtering: From outside to inside
 Pressure drop: Flow dependent
 Medium: Mineral oil, emulsion and most synthetic oils. Maximum working pressure 3 bar. Bypass pressure 1.75 bar



In Tank Mounting Filter - Type MPF 030

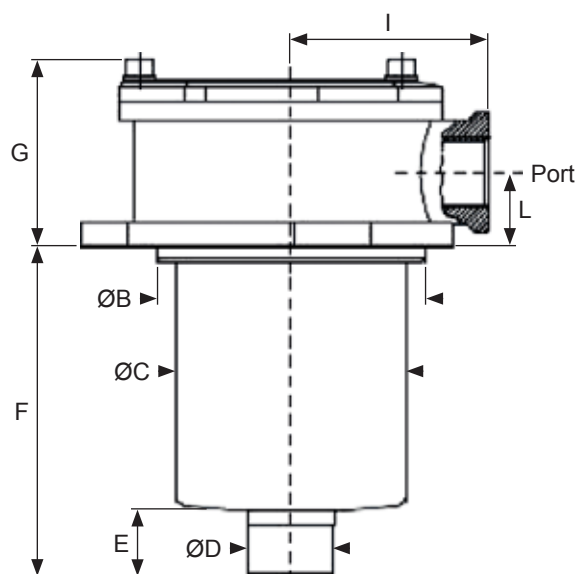
DIMENSIONS							FILTER MATERIAL		PORT A	SPARE ELEMENT	OUTLET	PART NUMBER
B	C	D	E	F	G	H	MICRONS	TYPE				
86	60	66	56	51	90	7	10	Glass fibre	1/2" BSP	MF0301A10	15 lpm	MPF0301A10H
86	60	66	56	51	90	7	10	Paper	1/2" BSP	MF0301P10	33 lpm	MPF0301P10
86	60	66	56	51	90	7	25	Paper	1/2" BSP	MF0301P25	65 lpm	MPF0301P25
100	60	66	56	51	90	7	60	Metal	1/2" BSP	MF0301M60	120 lpm	MPF0301M60

In Tank Mounting Filter - Type MPF 100

DIMENSIONS							FILTER MATERIAL		PORT A	SPARE ELEMENT	OUTLET	PART NUMBER
B	C	D	E	F	G	H	MICRONS	TYPE				
100	80	88	75	67.5	115	8.5	10	Glass fibre	3/4" BSP	MF1001A10	35 lpm	MPF1001A10H
100	80	88	75	67.5	115	8.5	10	Paper	3/4" BSP	MF1001P10	75 lpm	MPF1001P10
100	80	88	75	67.5	115	8.5	60	Metal	3/4" BSP	MF1001M60	250 lpm	MPF1001M60
150	80	88	75	67.5	115	8.5	10	Glass fibre	1" BSP	MF1002A10	55 lpm	MPF1002A10H
150	80	88	75	67.5	115	8.5	10	Paper	1" BSP	MF1002P10NB	120 lpm	MPF1002P10
150	80	88	75	67.5	115	8.5	25	Paper	1" BSP	MF1002P25	250 lpm	MPF1002P25
150	80	88	75	67.5	115	8.5	60	Metal	1" BSP	MF1002M60	450 lpm	MPF1002M60

In Tank Mounting Filter - Type MPF 180

DIMENSIONS							FILTER MATERIAL		PORT A	SPARE ELEMENT	OUTLET	PART NUMBER
B	C	D	E	F	G	H	MICRONS	TYPE				
235	110	129	89	96	175	10.5	10	Glass fibre	1 1/4" BSP	MF1801A10	170 lpm	MPF1801A10H
235	110	129	89	96	175	10.5	10	Paper	1 1/4" BSP	MF1801P10	220 lpm	MPF1801P10
235	110	129	89	96	175	10.5	25	Paper	1 1/4" BSP	MF1801P25	330 lpm	MPF1801P25
235	110	129	89	96	175	10.5	60	Metal	1 1/4" BSP	MF1801M60	450 lpm	MPF1801M60

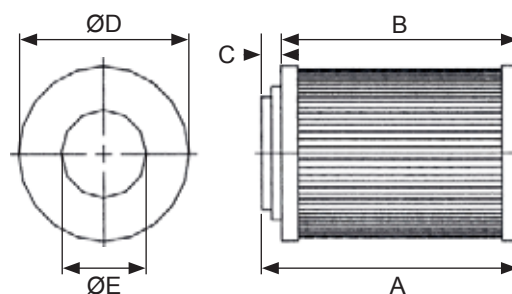


Semi-Submerged Return Filter Housing

Element to suit must be ordered separately

- Max working pressure: 8 bar
- Test pressure: 12 bar
- Bursting pressure: 16 bar
- Working temperature: -25°C to 100°C
- Max flow: 600 lpm
- Materials:
 - Cover & Head: Aluminium
 - Bowl: Nylon - Carbon steel
 - Seal: Buna-N

SIZE	ØB	ØC	ØD	E	F	G	I	L	PORT	ELEMENT TO SUIT	PART NUMBER
10	66.5	62	24	22	83	54	51	20.5	1/2" BSP	R110 Type (see below)	FR110
21	87.5	80	27.5	27	106	73	67	28.5	3/4" BSP	R120 Type (see below)	FR121
22	87.5	80	27.5	27	151	73	67	28.5	3/4" BSP	R122 Type (see below)	FR122
23	87.5	80	27.5	27	151	73	67	28.5	1" BSP	R122 Type (see below)	FR123
40	129	111	40	36	230	87	95	35.5	1 1/4" BSP	R140 Type (see below)	FR141



Element to suit Semi-Submerged Return Filter Housing

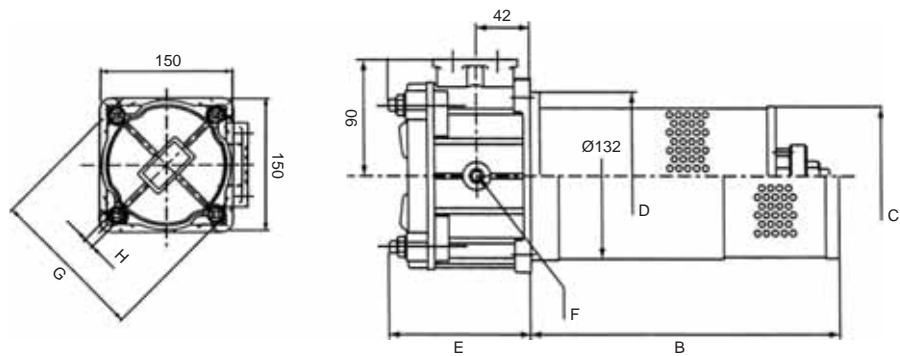
To suit Semi-Submergible Return Filter Housing (Shown Above)

- Collapse pressure: 10 bar
- By-pass in Return Line: 1.7 bar
- Filter media: Cellulose 10 µ, 25 µ Wire mesh: 60 µ

SIZE	ØD	ØE	A	B	C	FILTRATION DEGREE	TO SUIT HOUSING	PART NUMBER
10	50	25	76	70	6	25 µ	FR110 Type (see above)	R110C25B
20	70	29	86	80	6	25 µ	FR121 Type (see above)	R120C25B
20	70	29	86	80	6	60 µ	FR121 Type (see above)	R120T60B
22	70	29	136	130	6	10 µ	FR122 or FR123 Type (see above)	R122C10B
22	70	29	136	130	6	25 µ		R122C25B
40	99	41	214	206	9	25 µ	FR141 Type (see above)	R140C25B

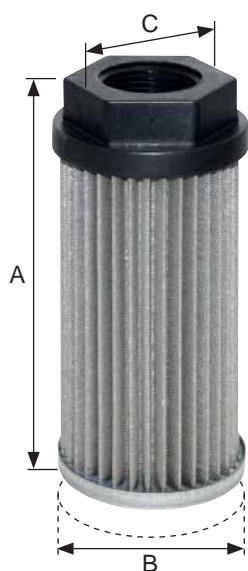
In Tank Mounting Filter

Design: Return filter
 Working pressure: 10 bar
 Temperature: -25°C to +110°C
 Material: Cavity: Aluminium
 Seals: NBR, viton on request
 Mounting: Tank mounting (BSP), on request NPT and SAE port
 Flow: Depends on type
 Filtering: From outside to inside
 Pressure drop: Flow dependent
 Medium: Mineral oil, emulsion and most synthetic oils. Maximum working pressure 3 bar. Bypass
 Note: Includes pressure gauge



In Tank Mounting Filter - Type MPH

DIMENSIONS								FILTER MATERIAL		PORT A	SPARE ELEMENT	OUTLET	PART NUMBER
B	C	D	E	F	G	H	MICRONS	TYPE					
240	106	130	110	1/8"	175	11	10	Paper	1 1/2" BSP	MR2501P10	220 lpm	MPH2501P10	
240	106	130	110	1/8"	175	11	25	Glass Fibre	1 1/2" BSP	MR2501A25	220 lpm	MPH2501A25	
240	106	130	110	1/8"	175	11	10	Paper	1 1/2" BSP	MR2502P10	260 lpm	MPH2502P10	
240	106	130	110	1/8"	175	11	25	Glass Fibre	1 1/2" BSP	MR2502A25	375 lpm	MPH2502A25	
310	106	130	110	1/8"	175	11	10	Paper	1 1/2" BSP	MR2503P10	370 lpm	MPH2503P10	
310	106	130	110	1/8"	175	11	25	Glass Fibre	1 1/2" BSP	MR2503A25	450 lpm	MPH2503A25	
515	106	130	110	1/8"	175	11	10	Paper	1 1/2" BSP	MR2504P10	500 lpm	MPH2504P10	
515	106	130	110	1/8"	175	11	25	Glass Fibre	1 1/2" BSP	MR2504A25	600 lpm	MPH2504A25	
515	106	130	110	1/8"	175	11	10	Glass Fibre	1 1/2" BSP	MR2504P10	420 lpm	MPH2504A10	



Suction Filter - Type FS1

• Suction filters are suitable for use in the suction line, submerged

• Protects pump against coarse pollution

Temperature: -25°C to +100°C

Material: Head - nylon, End cap - carbon steel, Filter - wire mesh

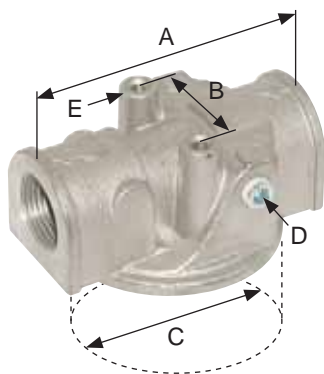
Seals: NBR, viton on request

Mounting: Threaded port (BSP) on the suction pipe of the pump.

Filtering: From outside to inside

Fluid compatibility: ISO2943: Filter assembly compatible with mineral oils and some synthetic or vegetable oils

DIMENSIONS			FILTER FINENESS	FEMALE THREAD	MAX FLOW	PART NUMBER
A	B Ø	C				
91	46	36	125	3/8" BSP	15 lpm	FS110T125
106	46	36	125	1/2" BSP	35 lpm	FS111T125
109	64	50	125	3/4" BSP	52 lpm	FS120T125
139	64	50	125	1" BSP	100 lpm	FS121T125
139	86	65	125	1 1/4" BSP	160 lpm	FS131T125
200	86	65	125	1 1/2" BSP	215 lpm	FS133T125
260	86	75	125	2" BSP	280 lpm	FS134T125



Spin-On Filter / Filter Head

Working pressure: 12 bar

Temperature: -25°C to +110°C

Material: Housing: Aluminium

Seals: NBR, viton on request

Mounting: Suited for in-line mounting. Spin-on

TYPE	FEMALE THREAD	SUITS FILTER	DIMENSIONS					PART NUMBER
			A	B	C	D	E	
Return	3/4" BSP	CS050 / 70	95	38	75	1/8"	M6	MPS9050RG1
Suction	3/4" BSP	CS050 / 70	95	38	75	1/8"	M6	MPS9050SG1
Return	1 1/4" BSP	CS0100 / 150	133	50	133	1/8"	M6	MPS9100RG1
Suction	1 1/4" BSP	CS0100 / 150	133	50	133	1/8"	M6	MPS9100SG1



Spin-On Suction / Return Line Filter

Application: Pipe suction or return filter

Seals: NBR, viton on request

Temperature: -25°C to +110°C

Suitable for: Mineral oil

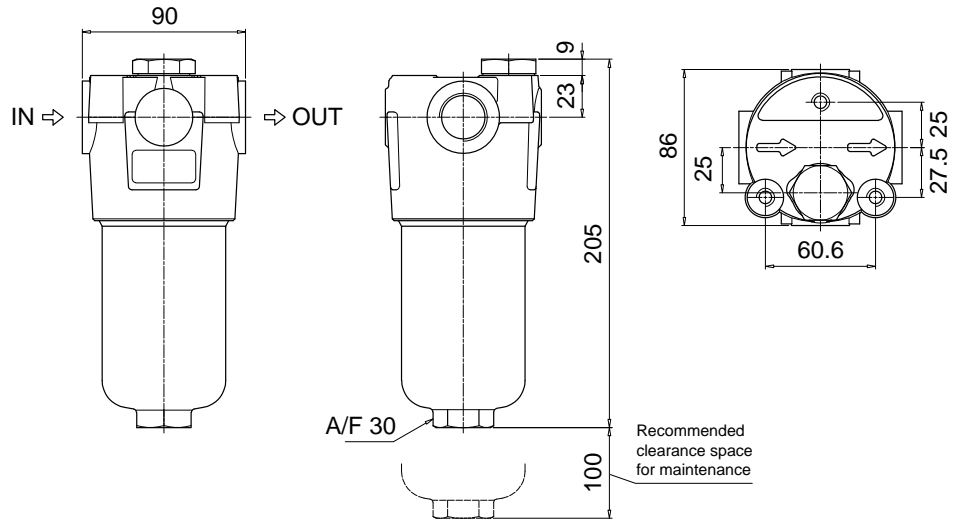
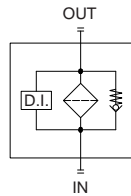
Max Operating Pressure: 12 bar

Note: Glass fibre available on request

TYPE	FILTER FINENESS	A	B	THREAD	PART NUMBER
CS050	P10 (paper)	142	94	3/4" BSP	HF6173
CS050	P25 (paper)	142	94	3/4" BSP	HF35102
CS070	P25 (paper)	205	94	3/4" BSP	HF6538
CS100	P10 (paper)	180	128	1 1/4" BSP	HF6177
CS100	P25 (paper)	180	128	1 1/4" BSP	HF7835
CS150	P10 (paper)	226	128	1 1/4" BSP	HF35082
CS150	P25 (paper)	231	132	1 1/4" BSP	HF6359

Pressure Line Filter - 3/4" BSP

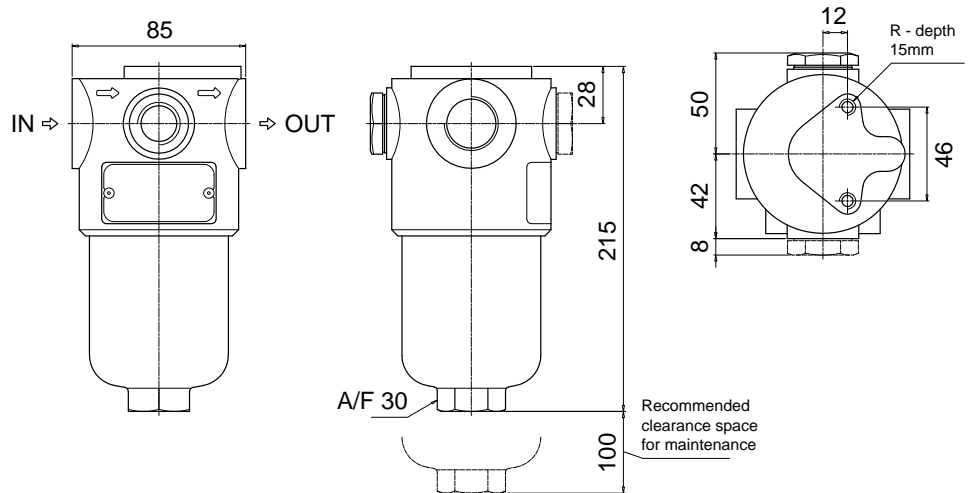
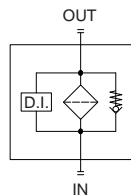
Design: In-line filter
 Working pressure: Maximum 420 bar
 Filter element material: Glass fibre
 Seals: NBR
 Mounting: Vertical
 Flow rate: 125 lpm
 Filter fineness: 25µm



FILTER MATERIAL		INLET PORT	OUTLET PORT	FLOW RATE	SPARE ELEMENT	PART NUMBER
MICRONS	TYPE					
25	Glass fibre	3/4" BSP	3/4" BSP	125 lpm	HP0502A25ANP01	FMM0502BADA25NP01

Pressure Line Filter - 1" BSP

Design: In-line filter
 Working pressure: Maximum 320 bar
 Filter element material: Glass fibre
 Seals: NBR
 Mounting: Vertical
 Flow rate: 112 lpm
 Filter fineness: 10µm



FILTER MATERIAL		INLET PORT	OUTLET PORT	FLOW RATE	SPARE ELEMENT	PART NUMBER
MICRONS	TYPE					
10	Glass fibre	1" BSP	1" BSP	112 lpm	HP1351A10ANP01	FMP1351BAG2A10NP01



Threaded Steel Tank Type KVT

Design: These tanks are extremely suitable for mobile applications
 Finish: Sprayed primer (standard)
 Technical Info: Steel plate tanks complete with suction and return port
 Note: Filler cap, return filter and gauge glass ordered separately.
 Return filter element 25 or 60 possible

CAPACITY	LENGTH	WIDTH	HEIGHT	FILTER (THREAD) *	SUCTION PORT	FILLER CAP *	PART NUMBER
15 litres	314	205	314	MPF0301P25 (1/2" BSP)	3/4" BSP	TA46FL10B00C65	KVT015
30 litres	404	205	404	MPF0301P25 (1/2" BSP)	3/4" BSP	TA46FL10B00C65	KVT030
50 litres	494	234	494	MPF1001P25 (3/4" BSP)	3/4" BSP	TA80FL10B00C80	KVT050
80 litres	494	355	494	MPF1002P25 (1" BSP)	1" BSP	TA80FL10B00C80	KVT080
100 litres	624	314	624	MPF1002P25 (1" BSP)	2" BSP	TA80FL10B00C80	KVT100

* ordered separately



Filling Cap - Type TA

Material: Galvanised steel and aluminium
 Seals: Cork
 Attachment: Flange
 Filtration: 10 microns
 Temperature: -30° to +100°C
 Mounting: Flange mounting on tank

DIMENSIONS			OPTIONS	RELIEF VALVE	BASKET	PART NUMBER
A	B	C				
52	29	111	Without Lock	None	C65	TA46FL10B00C65
83	50	134	Without Lock	None	C80	TA80FL10B00C80
83	50	134	With Lock	None	C80	TA80FL10B0LC80
83	50	134	Without Lock	0.7 bar	C80	TA80FL10B10C80

Filling Cap - Type TSD with Dipstick

Design: Indicates level of oil in tank
 Material: Nylon
 Seals: Buna-N
 Temperature: -30° to +100°C
 Mounting: Screw mounting on tank cover



MALE THREAD	DIPSTICK LENGTH	PART NUMBER
3/8" BSP	210	TSD06
1/2" BSP	210	TSD08
3/4" BSP	210	TSD12
1" BSP	245	TSD16
1 1/4" BSP	295	TSD20
1 1/2" BSP	295	TSD24

Magnetic Plug TKM

Design: Captures dirt by means of magnetism
 Material: Aluminium
 Seals: Fibre
 Temperature: -30° to +100°C
 Mounting: Screw mounting on tank



MALE THREAD	PART NUMBER
1/2" BSP	TKM08
3/4" BSP	TKM12
1" BSP	TKM16

Oil Observation Glass - Threaded Type LCP

Design: Level control

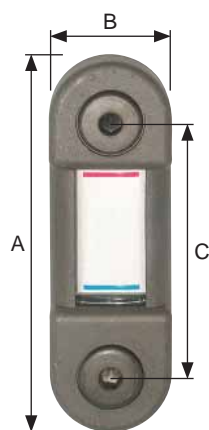
Material: Nylon Aluminium
 Temperature: -30° to +100°C -30° to +120°C
 Pressure: Max 2 Bar Max 5 Bar



MALE THREAD	NYLON PART NUMBER	ALUMINIUM PART NUMBER
1/4" BSP	LCPG13	LCPG13A
3/8" BSP	-	LCPG16A
1/2" BSP	-	LCPG20A
3/4" BSP	-	LCPG26A
1" BSP	LCPG33	LCPG33A
1 1/4" BSP	-	LCPG42A
1 1/2" BSP	-	LCPG48A
2" BSP	-	LCPG60A

Oil Level Indicator (Optional Thermometer)

Design: Level control
 Material: Nylon
 Seals: NBR
 Temperature: -30° to +100°C
 Mounting: Screw mounting on tank



DIMENSIONS			BOLT SIZE	THERMOMETER	PART NUMBER
A	B	C			
114	38	76	M10	Without thermometer	LVA1SA
114	38	76	M10	With thermometer	LVA1TA
165	38	127	M12	Without thermometer	LVA2SA
165	38	127	M12	With thermometer	LVA2TA



Pressure Gauge Shut-off Cock

Material: Steel with plastic knob

DESCRIPTION	PART NUMBER
Pressure gauge stop with 1/4" BSP thread	EM180

Pressure Gauge (Glycerine Filled) - 63mm Face

The housing is filled with glycerine to dampen movement of the dial in case of dynamic loads, pressure peaks and vibrations. Constructed from ABS (plastic) with a brass port.

Standard: ANSI B 40.1-B
 Scale Division: Bar
 Temperature: -20° to +60°C



CONNECTION	PRESS. RANGE	SCALE DIVISION	BOTTOM CONNECTION	REAR CONNECTION
1/4" BSP	0 - 1.6	0.05 bar	MA63016	-
1/4" BSP	0 - 2.5 bar	-	MA63025	-
1/4" BSP	0 - 6 bar	0.2 bar	MA636	MA636A
1/4" BSP	0 - 10 bar	0.5 bar	MA6310	MA6310A
1/4" BSP	0 - 16 bar	0.2 bar	MA6316	MA6316A
1/4" BSP	0 - 25 bar	1.0 bar	MA6325	MA6325A
1/4" BSP	0 - 40 bar	2.0 bar	MA6340	MA6340A
1/4" BSP	0 - 60 bar	2.0 bar	MA6360	MA6360A
1/4" BSP	0 - 100 bar	5.0 bar	MA63100	MA63100A
1/4" BSP	0 - 160 bar	5.0 bar	MA63160	MA63160A
1/4" BSP	0 - 250 bar	10.0 bar	MA63250	MA63250A
1/4" BSP	0 - 400 bar	20.0 bar	MA63400	MA63400A

Pressure Gauge (Glycerine Filled) - 100mm Face

The housing is filled with glycerine to dampen movement of the dial in case of dynamic loads, pressure peaks and vibrations. Constructed from stainless steel with a brass port.

Standard: ANSI B 40.1-B
 Scale Division: Bar
 Temperature: -20° to +60°C



CONNECTION	PRESS. RANGE	SCALE DIVISION	BOTTOM CONNECTION	REAR CONNECTION
1/4" BSP	0 - 16 bar	0.2 bar	-	MA1001614RVS
1/2" BSP	0 - 16 bar	0.2 bar	MA10016RVS	-
1/2" BSP	0 - 60 bar	1.0 bar	MA10060RVS	MA10060ARVS
1/2" BSP	0 - 100 bar	2.0 bar	MA100100RVS	-
1/2" BSP	0 - 160 bar	5.0 bar	MA100160RVS	MA100160ARVS
1/2" BSP	0 - 250 bar	5.0 bar	MA100250RVS	-
1/2" BSP	0 - 400 bar	10.0 bar	MA100400RVS	-
1/2" BSP	0 - 600 bar	10.0 bar	MA100600RVS	-

Metric Adaptors to suit Pressure Gauges

Design: Pressure test point couplings
 Material: Steel (stainless steel on request)
 Standard: Thread acc. DIN-ISO 228 (R...,DIN259), O-ring acc. DIN 3865

To suit LIGHT series piping



FEMALE LIGHT THREAD	TO SUIT GAUGE THREAD	MAX PRESSURE	PART NUMBER
M12x1.5 6L	1/4" BSP	500 bar	EMASD6LR14
M14x1.5 8L	1/4" BSP	500 bar	EMASD8LR14
M16x1.5 10L	1/4" BSP	500 bar	EMASD10LR14
M18x1.5 12L	1/4" BSP	400 bar	EMASD12LR14

To suit Heavy series piping

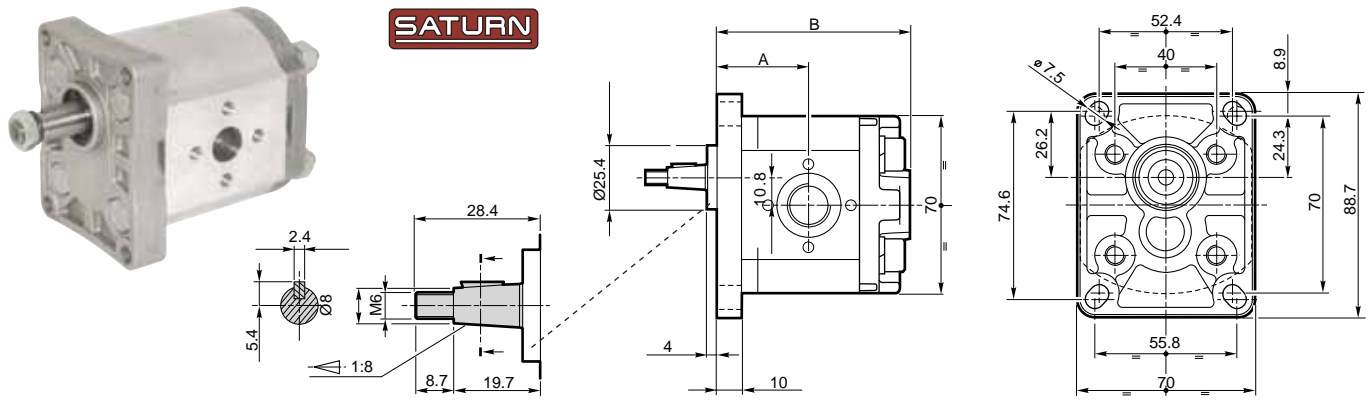


FEMALE HEAVY THREAD	TO SUIT GAUGE THREAD	MAX PRESSURE	PART NUMBER
M14x1.5 6S	1/2" BSP	630 bar	EMASD6SR12
M16x1.5 8S	1/2" BSP	630 bar	EMASD8SR12
M18x1.5 10S	1/2" BSP	630 bar	EMASD10SR12
M20x1.5 12S	1/2" BSP	630 bar	EMASD12SR12



BSP Adaptor to suit Pressure Gauges

MALE THREAD	TO SUIT GAUGE THREAD	MAX PRESSURE	PART NUMBER
1/4" BSP	1/4" BSP	500 bar	626-04-04GA

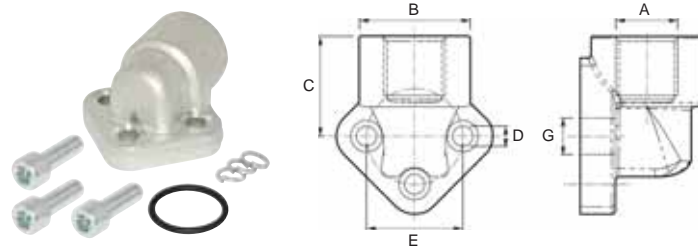


Group 1 Gear Pump

DISPLACEMENT cm ³ /rev	MAX WORKING PRESSURE bar			MAX SPEED rpm	MAX FLOW lpm	INLET PORT mm	OUTLET PORT mm	DIMENSIONS		↺	↻
	P1	P2	P3					A	B	LEFT HAND	RIGHT HAND
0.89	240	260	290	6000	5.3	26	26	34.80	73.6	1SPA0.9S	1SPA0.9D
1.18	240	260	290	6000	7.1	26	26	35.35	74.7	1SPA1.2S	1SPA1.2D
1.6	240	260	290	6000	9.6	26	26	36.20	76.4	1SPA1.6S	1SPA1.6D
2.0	220	250	270	5500	11	26	26	36.95	77.9	1SPA2.0S	1SPA2.0D
2.5	220	250	270	5000	12.5	30	30	37.95	79.9	1SPA2.5S	1SPA2.5D
3.2	210	240	260	4500	14.4	30	30	39.30	82.6	1SPA3.2S	1SPA3.2D
3.7	210	240	260	4000	14.8	30	30	40.30	84.6	1SPA3.7S	1SPA3.7D
4.2	190	210	230	3500	14.7	30	30	41.25	86.5	1SPA4.2S	1SPA4.2D
5.0	180	210	230	3000	15	30	30	42.80	89.6	1SPA5.0S	1SPA5.0D
6.3	170	190	210	2700	17	30	30	45.35	94.7	1SPA6.3S	1SPA6.3D
7.76	170	190	210	2500	19.4	30	30	48.20	100.4	1SPA7.8S	1SPA7.8D
9.78	150	170	190	2000	19.6	30	30	52.15	108.3	1SPA9.8S	1SPA9.8D

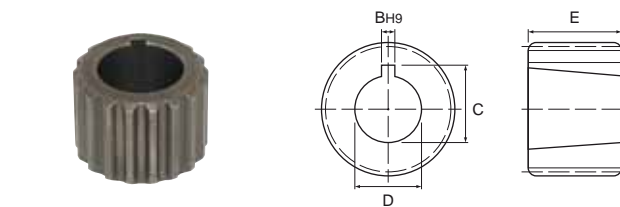
Note: Contact our Sales Staff if you are unable to find any of your requirements here as it is possible to acquire different variations of pump.

P1 = Continuous Pressure
 P2 = Max Intermediate Pressure
 P3 = Max Peak Pressure



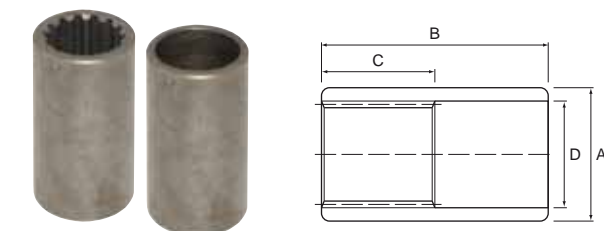
Group 1 Gear Pump Elbow Connector

BSP	DIMENSIONS					PART NUMBER
	A	B	C	D	E	
3/8"	30	27.5	5.5	26	11	FG3/8-26
3/8"	30	27.5	6.5	30	12	FG3/8-30
1/2"	30	27.5	6.5	30	12	FG1/2-30



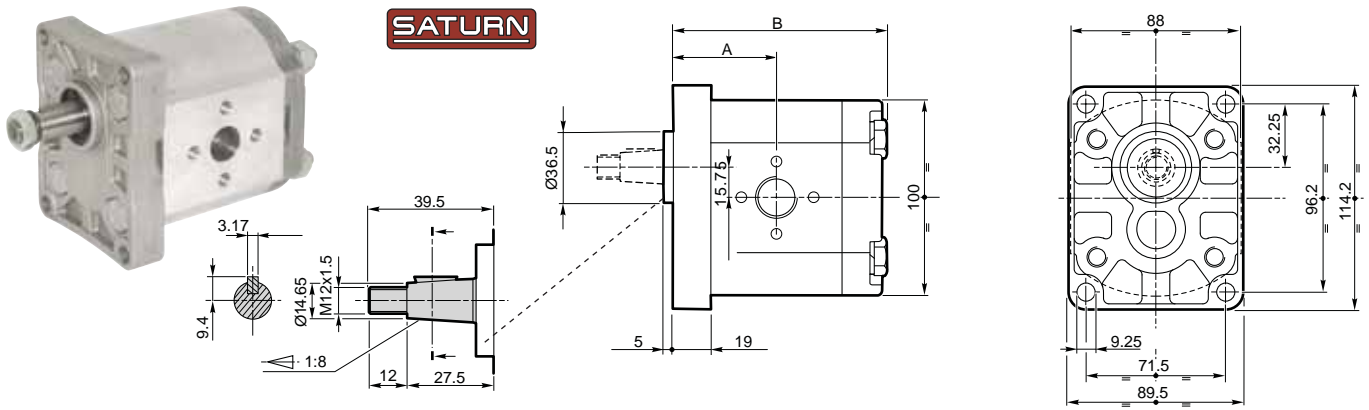
Group 1 Gear Pump Male Coupling

PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		B	C	D	E	
B20x17	12	2.4	9.6	7.82	14.5	1IS/12M
B25x22	14	2.4	9.6	7.82	14.5	1IS/14M



Group 1 Gear Pump Female Coupling

PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		A	B	C	D	
A20x17	12	25	50	25	20.5	1IS/12F
A25x22	14	32	60	30	25.5	1IS/14F



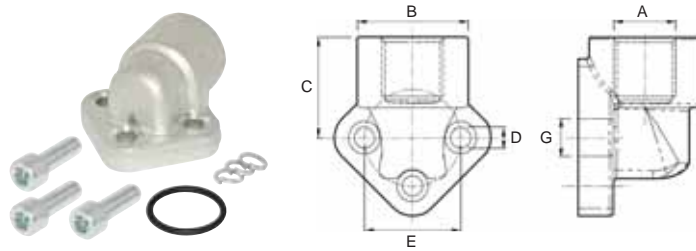
Group 2 Gear Pump

DISPLACEMENT cm ³ /rev	MAX WORKING PRESSURE bar			MAX SPEED rpm	MAX FLOW lpm	INLET PORT mm	OUTLET PORT mm	DIMENSIONS		LEFT HAND	RIGHT HAND
	P1	P2	P3					A	B		
4	250	270	290	4000	16	30	30	44.4	93	2SPA4S	2SPA4D
6	250	270	290	4000	24	30	30	46	96.3	2SPA6S	2SPA6D
8.5	250	270	290	3500	29.7	30	30	48.1	100.5	2SPA8S	2SPA8D
11	250	270	290	3500	38.5	30	30	50.2	104.6	2SPA11S	2SPA11D
14	250	270	290	3500	49	40	30	52.7	109.6	2SPA14S	2SPA14D
16.5	230	240	250	3500	57.7	40	30	54.8	113.8	2SPA16S	2SPA16D
19.5	210	220	230	3300	64.3	40	30	57.3	118.8	2SPA19S	2SPA19D
22.5	190	200	210	2800	63	40	30	59.8	123.8	2SPA22S	2SPA22D
26	170	180	190	2500	65	40	30	62.7	129.6	2SPA26S	2SPA26D

Note: Contact our Sales Staff if you are unable to find any of your requirements here as it is possible to acquire different variations of pump.

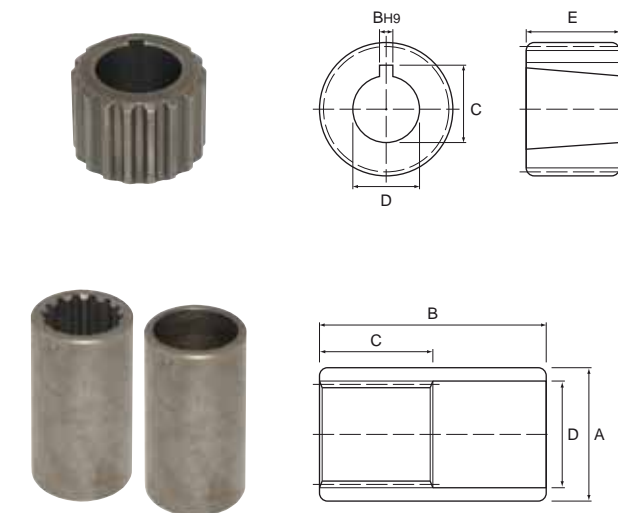
- P1 = Continuous Pressure
- P2 = Max Intermediate Pressure
- P3 = Max Peak Pressure

Group 2 Gear pumps to suit KOMATSU Mini Excavator, KUBOTA Mini Excavator and PERKINS are available on request. Contact our Sales Staff with your enquiry.



Group 2 Gear Pump Elbow Connector

BSP	DIMENSIONS						PART NUMBER
	A	B	C	D	E	G	
3/8"	30	27.5	6.5	30	12		FG3/8-30
1/2"	30	27.5	6.5	30	12		FG1/2-30
3/4"	38	36	8.5	40	19		FG3/4-40

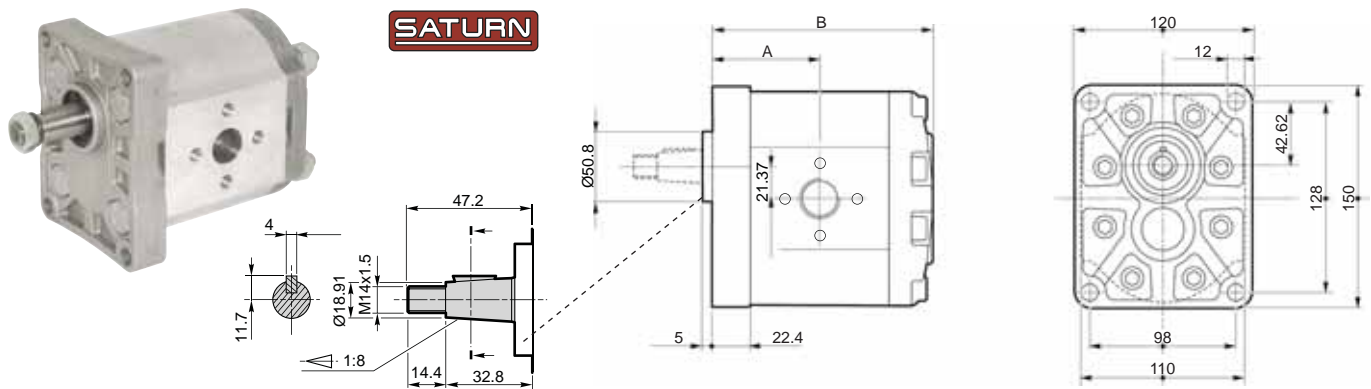


Group 2 Gear Pump Male Coupling

PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		B	C	D	E	
B25x22	14	3.17	16.5	14.3	22	2IS/14M
B28x25	15	3.17	15.8	14.3	22	2IS/15M

Group 2 Gear Pump Female Coupling

PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		A	B	C	D	
A25x22	14	32	60	30	25.5	2IS/14F
A28x25	15	34	60	30	28.5	2IS/15F

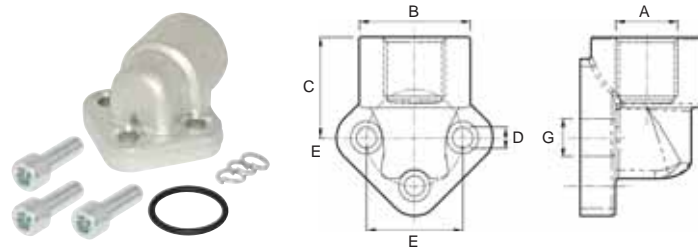


Group 3 Gear Pump

DISPLACEMENT cm ³ /rev	MAX WORKING PRESSURE bar			MAX SPEED rpm	MAX FLOW lpm	INLET PORT mm	OUTLET PORT mm	DIMENSIONS		↺	↻
	P1	P2	P3					A	B	LEFT HAND	RIGHT HAND
19	250	270	300	3500	66.5	51	40	62.4	128.3	3SPA19S	3SPA19D
22.3	240	260	290	3500	78	51	40	63.9	131.3	3SPA22.3S	3SPA22.3D
29.3	220	240	260	3300	96.7	51	40	66.9	137.3	3SPA29.3S	3SPA29.3D
32.9	220	230	260	3300	108.6	51	40	68.4	140.3	3SPA32.9S	3SPA32.9D
36.4	210	230	250	3300	120.1	51	40	69.9	143.3	3SPA36.4S	3SPA36.4D
43.5	200	220	240	3000	130.5	51	40	72.9	149.3	3SPA43.5S	3SPA43.5D
51.7	200	210	240	3000	155.1	51	40	76.4	156.3	3SPA51.7S	3SPA51.7D
61.1	180	190	200	2500	152.7	51	40	80.4	164.3	3SPA61.1S	3SPA61.1D

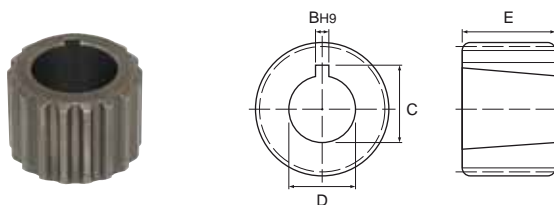
Note: Contact our Sales Staff if you are unable to find any of your requirements here as it is possible to acquire different variations of pump.

P1 = Continuous Pressure
 P2 = Max Intermediate Pressure
 P3 = Max Peak Pressure



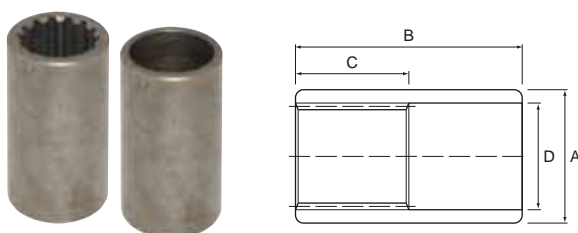
Group 3 Gear Pumps Elbow Connector

DIMENSIONS						PART NUMBER
A	B	C	D	E	G	
BSP	mm	mm	mm	mm	mm	
3/4"	38	36	8.5	40	19	FG3/4-40
1"	45	47	10.5	51	25	FG1-51



Group 3 Gear Pumps Male Coupling

PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		B	C	D	E	
		mm	mm	mm	mm	
B35x31	18	4	21	18.4	26	3IS/18M



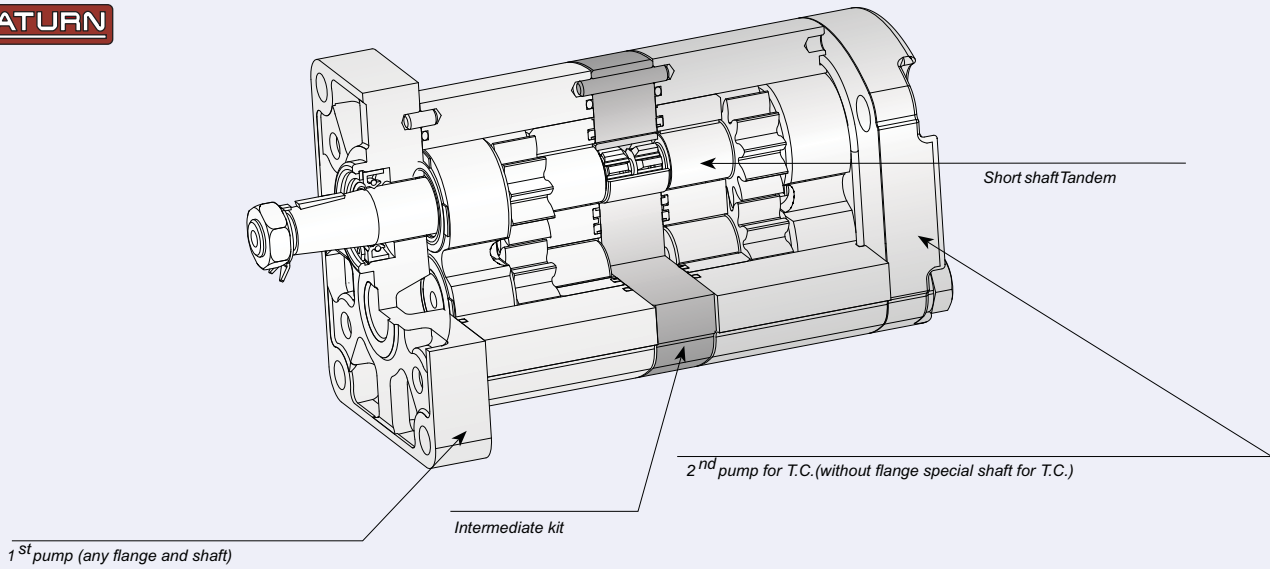
Group 3 Gear Pumps Female Coupling

PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		A	B	C	D	
		mm	mm	mm	mm	
A35x31	18	42	60	30	35.5	3IS/18F

Multiple Gear Pump Kits

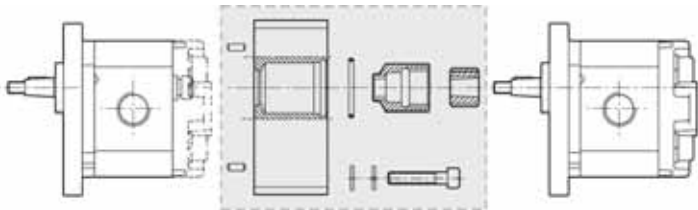
The versatility of Saturn Gear Pumps permits the assembly of multiple pumps using single pumps and a gear pump attachment kit, making it a simple operation of disassembly / assembly.

SATURN



Multiple Gear Pump Kit Group 1 to Group 1

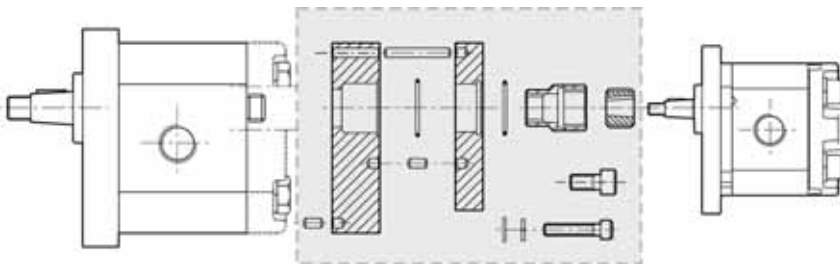
SATURN



PART NUMBER
01091100

Multiple Gear Pump Kit Group 2 to Group 1

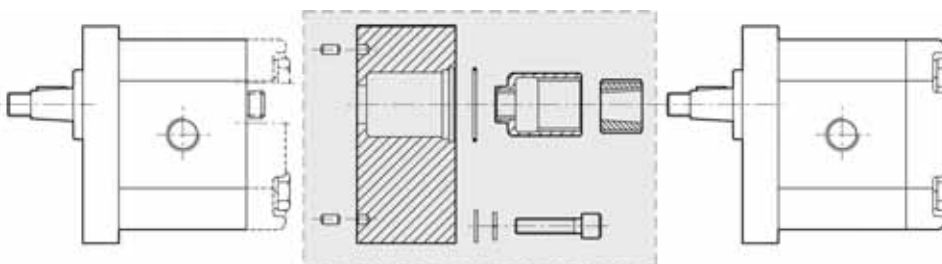
SATURN



PART NUMBER
0109211

Multiple Gear Pump Kit Group 2 to Group 2

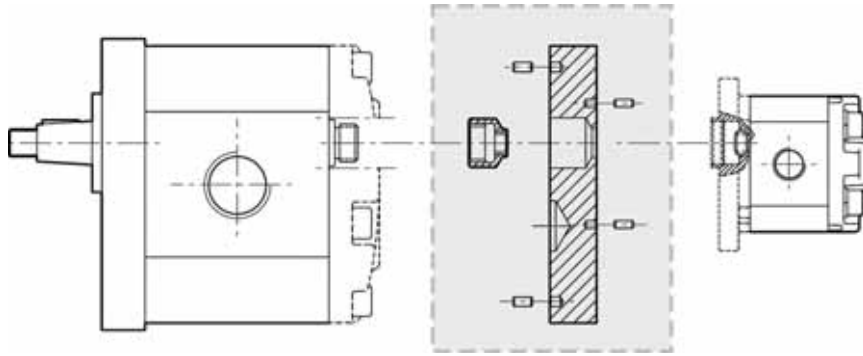
SATURN



PART NUMBER
0109220

Multiple Gear Pump Kit Group 3 to Group 1

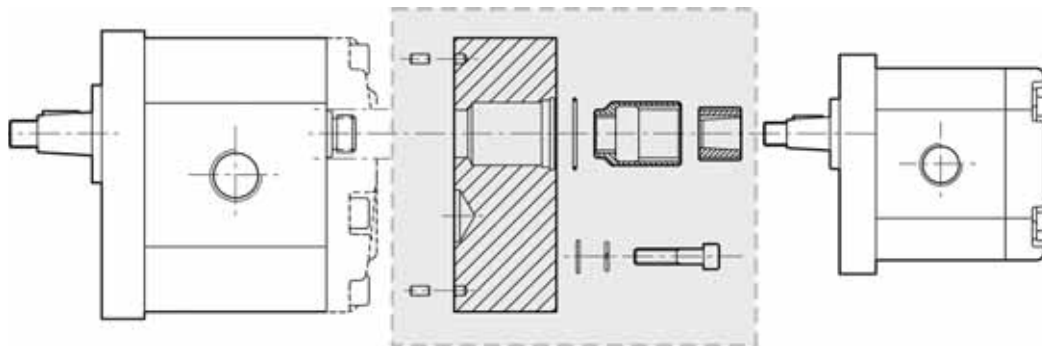
SATURN



PART NUMBER
0109310

Multiple Gear Pump Kit Group 3 to Group 2

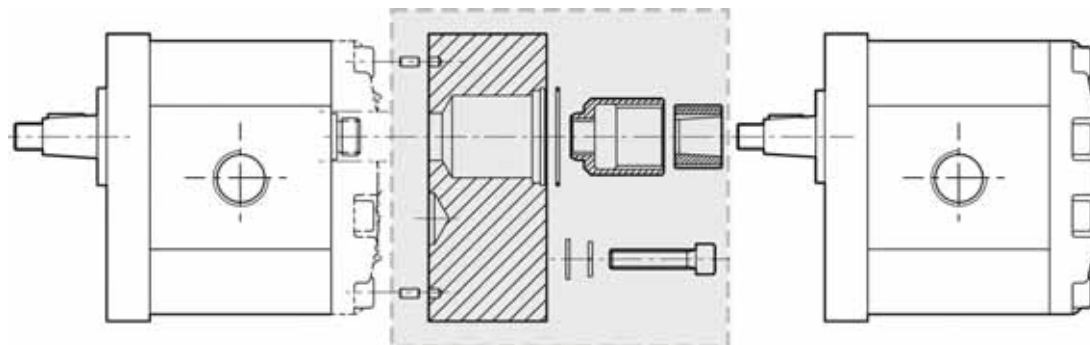
SATURN



PART NUMBER
0109320

Multiple Gear Pump Kit Group 3 to Group 3

SATURN



PART NUMBER
0109330

Introduction to Gearboxes and Support Boxes

Supply Program

Slip-on gear mechanisms of this group, in combination with gear pumps, are the solution for accelerating a relatively low rotation speed to a high rotation speed, so that the pump output is increased.

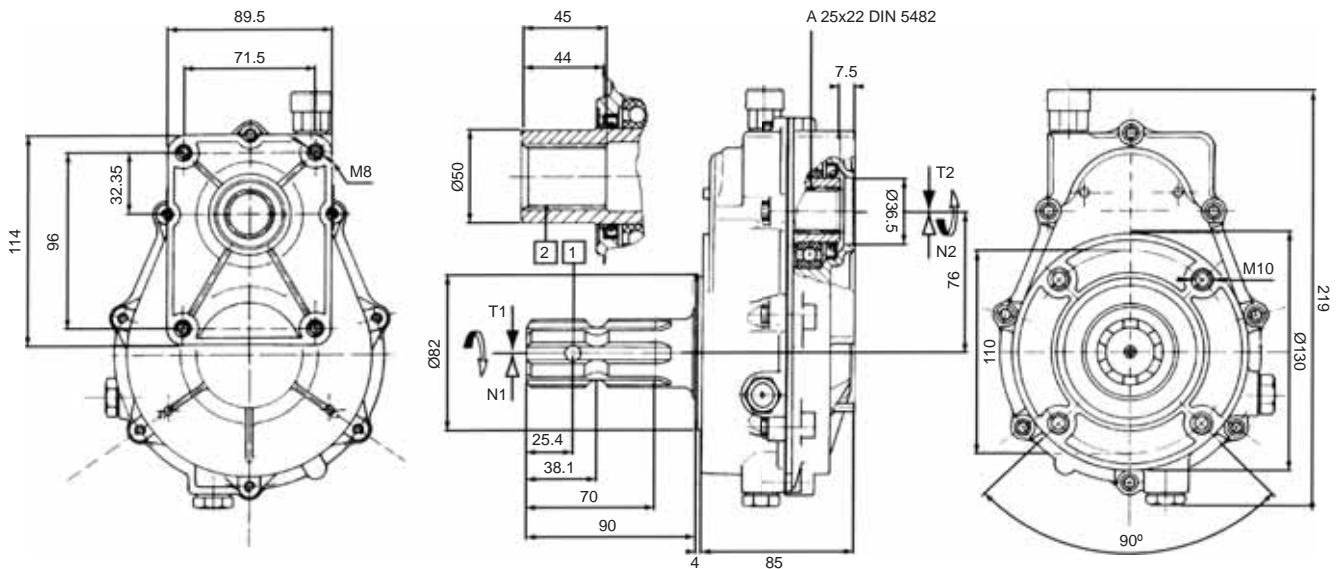
Support for Gear Pumps

By means of support a gearbox is available to take radial and axial forces, so that your pump can be driven by a chain wheel or a 'V' belt.

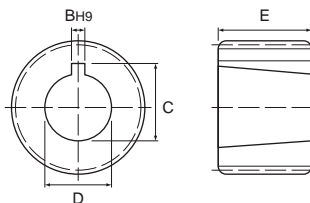
Gearboxes to suit Group 2 Gear Pumps

Slip-on gearboxes for gear pumps of Group 2 series. The input shafts of the gear boxes have a male and female 1 3/8" 6 spline profile (respectively: shaft and bush type)

- Pump Series: Group 2
- Min. / Max. Torque T1: 152/186 Nm
- Max. RPM pump side (n): 3000 rev/min
- Temperature range: -20°C to +80°C
- Oil change: After 30 to 50 operating hours
- Recommended oil: Viscosity class CPL/CC 150
(comparable to: DIN 51517 T3 or ISO 3498)
- Additional information: Coupling sleeves are to be ordered separately
(standard coupling sleeve is 2IS/14M)



TYPE	DESCRIPTION	RATIO	N1	T1	N2	T2	PART NUMBER
			rpm	Nm	rpm	Nm	
ML32	Gearbox with 1 3/8" Male input shaft	3:1	540	180	1680	58	ML3213
ML32	Gearbox with 1 3/8" Female input bush	3:1	540	180	1680	58	ML3223



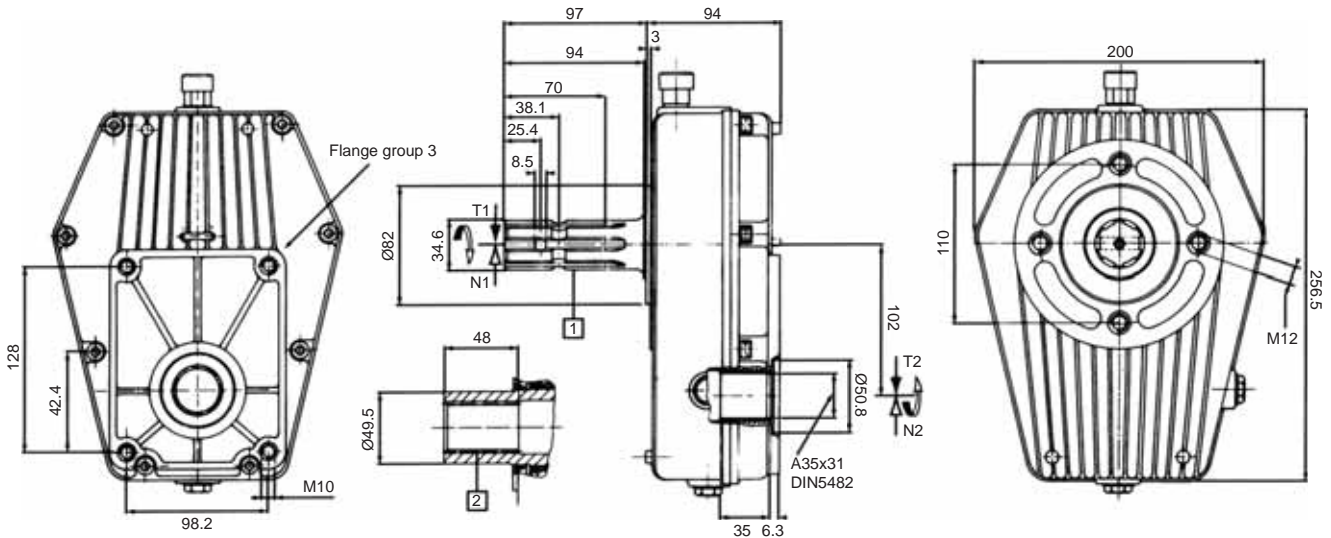
Group 2 Gear Pump Male Coupling

PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		B	C	D	E	
		mm	mm	mm	mm	
B25x22	14	3.17	16.5	14.3	22	2IS/14M

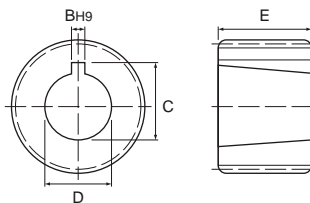
Gearbox to suit Group 3 Gear Pumps

Slip-on gearboxes for gear pumps of Group 3 series. The input shafts of the gearboxes have a male and female 1 3/8" 6 spline profile (respectively: shaft and bush type).

Pump Series: Group 3
 Min. / Max. Torque T1: 317/483 Nm
 Max. RPM pump side (n): 3000 rev/min
 Temperature range: -20°C to +80°C
 Oil change: After 30 to 50 operating hours
 Recommended oil: Viscosity class CPL/CC 150
 (comparable to: DIN 51517 T3 or ISO 3498)
 Additional information: Coupling sleeves are to be ordered separately
 (standard coupling sleeve is 3IS/18M)

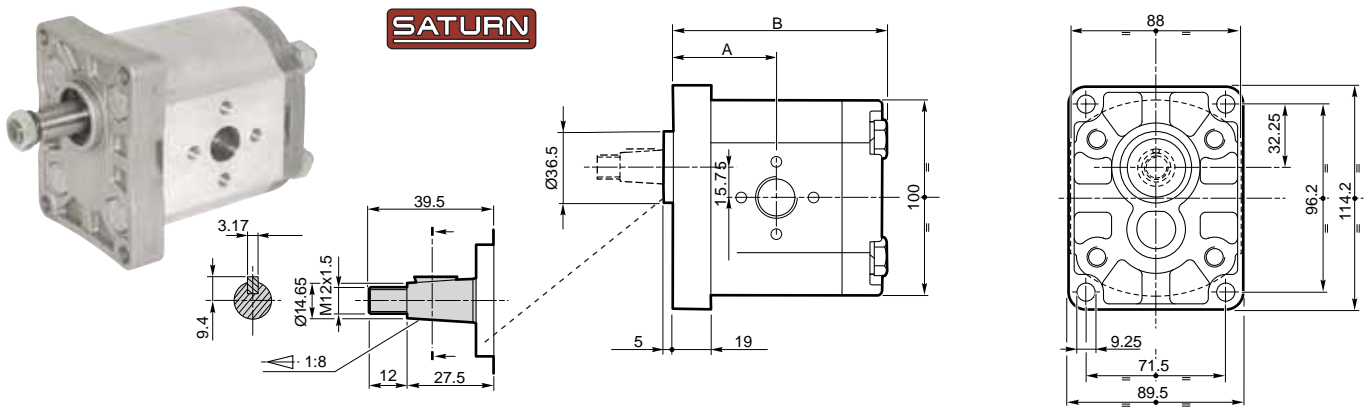


TYPE	DESCRIPTION	RATIO	N1	T1	N2	T2	PART NUMBER
			rpm	Nm	rpm	Nm	
ML52	Gearbox with 1 3/8" Male input shaft	3:1	540	483	1620	160	ML5213
ML52	Gearbox with 1 3/8" Female input bush	3:1	540	483	1620	160	ML5223



Group 3 Gear Pumps Male Coupling

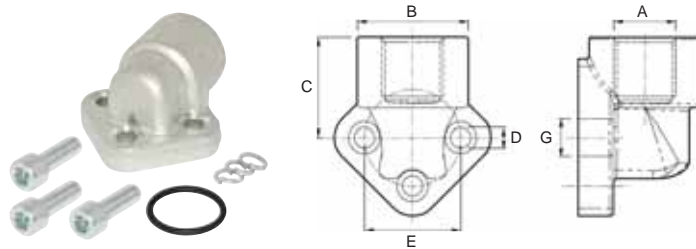
PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		B	C	D	E	
B35x31	18	4	21	18.4	26	3IS/18M



Group 2 Gear Motor

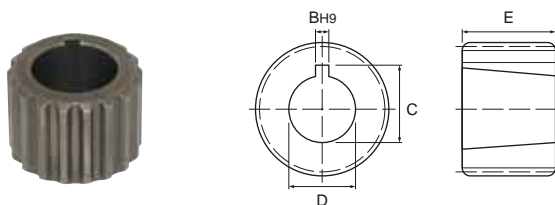
DISPLACEMENT	WORKING PRESSURE	MAX SPEED	MAX FLOW	INLET PORT	OUTLET PORT					
cm ³ /rev	bar	rpm	lpm	mm	mm	A	B	LH	RH	REVERSIBLE
4	230	4000	16	30	30	44.4	93	2SMA4S	2SMA4D	2SMA4R
6	230	4000	24	30	30	46	96.3	2SMA6S	2SMA6D	2SMA6R
8.5	230	3500	29.7	30	30	48.1	100.5	2SMA8S	2SMA8D	2SMA8R
11	230	3500	38.5	30	30	50.2	104.6	2SMA11S	2SMA11D	2SMA11R
14	230	3500	49	30	40	52.7	109.6	2SMA14S	2SMA14D	2SMA14R
16.5	230	3500	57.7	30	40	54.8	113.8	2SMA16S	2SMA16D	2SMA16R
19.5	185	3300	64.3	30	40	57.3	118.8	2SMA19S	2SMA19D	2SMA19R
22.5	170	2800	63	30	40	59.3	123.8	2SMA22S	2SMA22D	2SMA22R
26	150	2500	65	30	40	62.7	129.6	2SMA26S	2SMA26D	2SMA26R

Note: Contact our Sales Staff if you are unable to find any of your requirements here, as it is possible to acquire different variations of pump.



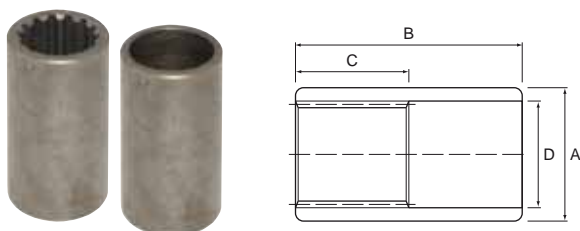
Group 2 Gear Motor Elbow Connectors

DIMENSIONS						PART NUMBER
A	B	C	D	E	G	
BSP	mm	mm	mm	mm	mm	
3/8"	30	27.5	6.5	30	12	FG3/8-30
1/2"	30	27.5	6.5	30	12	FG1/2-30
3/4"	38	36	8.5	40	19	FG3/4-40



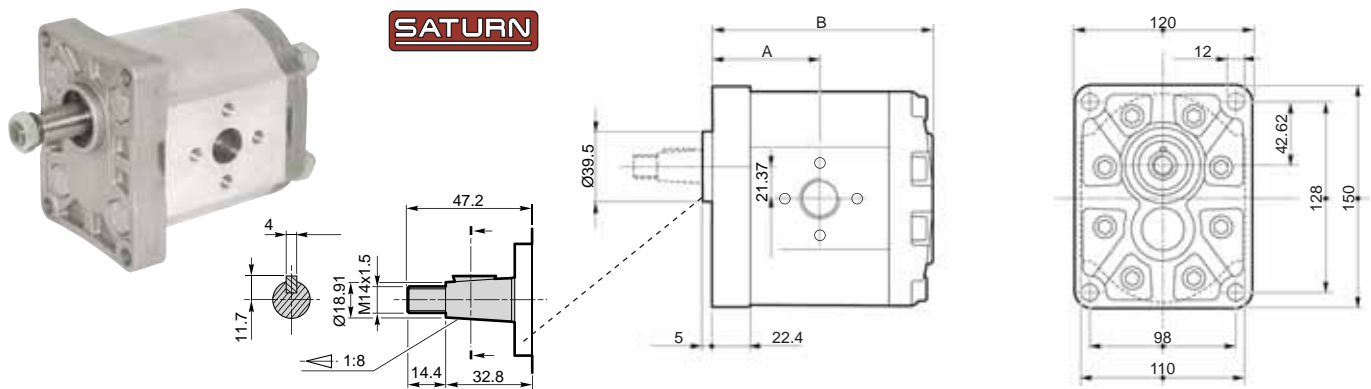
Group 2 Gear Motor Male Coupling

PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		B	C	D	E	
		mm	mm	mm	mm	
B25x22	14	3.17	16.5	14.3	22	2IS/14M
B28x25	15	3.17	15.8	14.3	22	2IS/15M



Group 2 Gear Motor Female Coupling

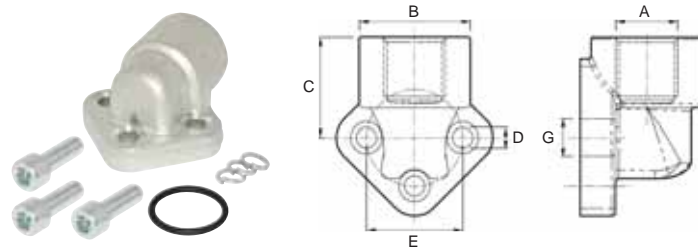
PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		A	B	C	D	
		mm	mm	mm	mm	
A25x22	14	32	60	30	25.5	2IS/14F
A28x25	15	34	60	30	28.5	2IS/15F



Group 3 Gear Motor

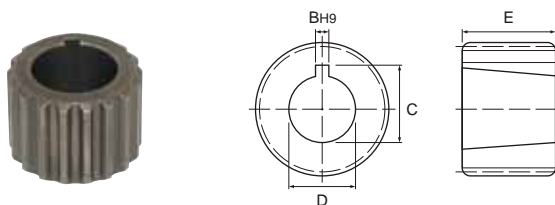
DISPLACEMENT	WORKING PRESSURE	MAX SPEED	MAX FLOW	INLET PORT	OUTLET PORT					
cm ³ /rev	bar	rpm	lpm	mm	mm	A	B	LH	RH	REVERSIBLE
19	215	3500	66.5	40	51	62.4	128.3	3SMA19S	3SMA19D	3SMA19R
22.3	205	3500	78	40	51	63.9	131.3	3SMA22S	3SMA22D	3SMA22R
29.3	190	3300	96.7	40	51	66.9	137.3	3SMA29S	3SMA29D	3SMA29R
32.9	190	3300	108.6	40	51	68.4	140.3	3SMA33S	3SMA33D	3SMA33R
36.4	180	3300	120.1	40	51	69.9	143.3	3SMA36S	3SMA36D	3SMA36R
43.5	170	3000	130.5	40	51	72.9	149.3	3SMA44S	3SMA44D	3SMA44R
51.7	170	3000	155.1	40	51	76.4	156.3	3SMA52S	3SMA52D	3SMA52R
61.1	160	2500	152.7	40	51	80.4	164.3	3SMA62S	3SMA62D	3SMA62R

Note: Contact our Sales Staff if you are unable to find any of your requirements here as it is possible to acquire different variations of pump.



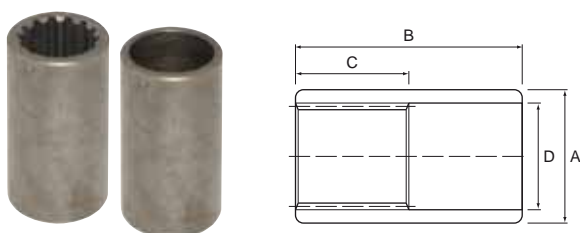
Group 3 Gear Motor Elbow Connectors

DIMENSIONS						PART NUMBER
A	B	C	D	E	G	
BSP	mm	mm	mm	mm	mm	
3/4"	38	36	8.5	40	19	FG3/4-40
1"	45	47	10.5	51	25	FG1-51



Group 3 Gear Motor Male Coupling

PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		B	C	D	E	
B35x31	18	4	21	18.4	26	3IS/18M

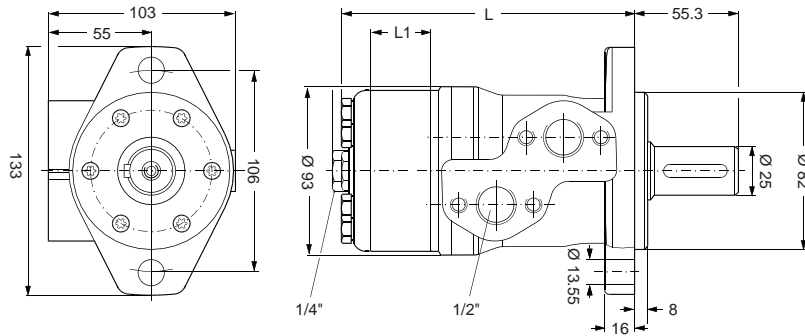


Group 3 Gear Motor Female Coupling

PROFILE DIN 5482	NO OF TEETH	DIMENSIONS				PART NUMBER
		A	B	C	D	
A35x31	18	42	60	30	35.5	3IS/18F

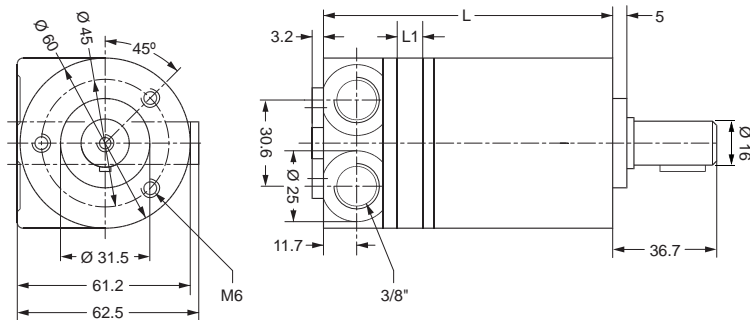
Orbital Motors

Orbital motors offer compact construction and simple mounting. High torque and shaft load, because of shorter distance from mounting flange to the point of load application. The drain makes it possible to use several motors in series without any problems. The drain also makes these motors suitable for use in a closed hydraulic system.



Orbital Motor Type SMP (RBP)

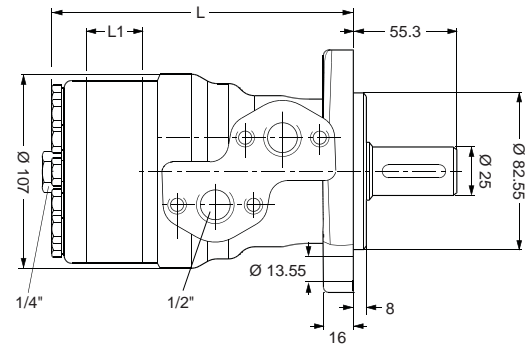
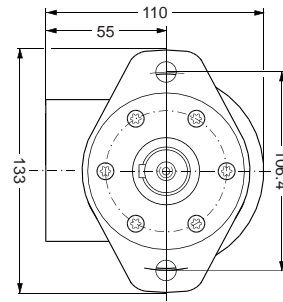
DISPLACEMENT cm ³ /rev	MAX WORKING PRESSURE bar			MAX SPEED rpm	TORQUE daNm	DIMENSIONS		PART NUMBER
	P1	P2	P3			L	L1	
51.7	125	165	165	879	8.1	137	7	SMP50
77.7	125	165	165	740	12.9	140.5	10.5	SMP80
96.2	125	165	165	589	16.1	143	13	SMP100
117.9	125	165	165	475	20.2	146	16	SMP125
155.5	125	165	165	370	24.5	151	21	SMP160
189.9	110	165	165	296	28.6	157	26	SMP200
231.0	110	140	140	237	36.0	162	32	SMP250
311.7	110	125	125	189	40.6	172	42	SMP315
386.2	100	105	105	149	43.5	182	52	SMP400
Seal kit to suit SMP orbital motor								SMP9AFDZ



Orbital Motor Type OMM

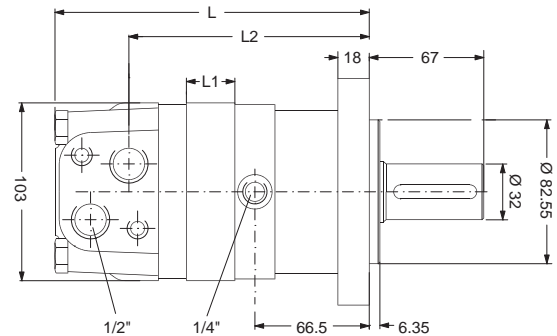
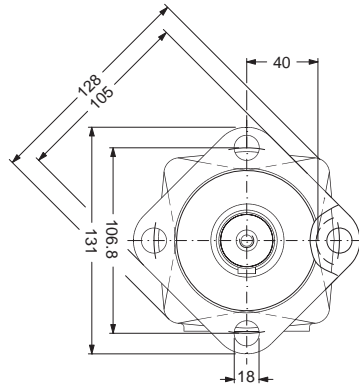
Flange Type: 3-hole round flange

DISPLACEMENT cm ³ /rev	MAX WORKING PRESSURE bar			MAX SPEED rpm	PORTS		DIMENSIONS		ORIGINAL NUMBER	PART NUMBER
	P1	P2	P3		POSITION	SIZE	L	L1		
8.2	100	140	200	1950	Side	3/8" BSP	112.5	3.5	151G0041	OMM8S
8.2	100	140	200	1950	Rear	3/8" BSP	104	3.5	151G0040	OMM8R
12.9	100	140	200	1550	Side	3/8" BSP	114.5	5.5	151G0004	OMM125S
12.9	100	140	200	1550	Rear	3/8" BSP	106	5.5	151G0001	OMM125R
19.9	100	140	200	1000	Side	3/8" BSP	112.5	8.5	151G0005	OMM20S
19.9	100	140	200	1000	Rear	3/8" BSP	109	8.5	151G0002	OMM20R
31.6	100	140	160	630	Side	3/8" BSP	117.5	13.5	151G0006	OMM32S
31.6	100	140	160	630	Rear	3/8" BSP	114	13.5	151G0003	OMM32R
Seal kit to suit OMM orbital motor										OMM9AFD



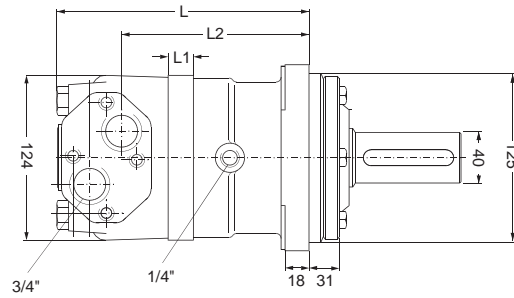
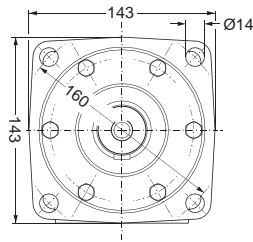
Orbital Motor Type SMR (RBR)

DISPLACEMENT cm ³ /rev	MAX WORKING PRESSURE bar			MAX SPEED rpm	TORQUE daNm	DIMENSIONS		PART NUMBER
	P1	P2	P3			L	L1	
51.3	140	175	210	755	10.0	140	10	SMR50
80.6	175	200	225	750	19.0	146	16	SMR80
100.8	175	200	225	600	24.0	150	20	SMR100
124.9	175	200	225	475	29.2	155	25	SMR125
157.2	165	200	225	375	36.3	161.5	31.5	SMR160
199.2	130	175	210	300	35.8	170	40	SMR200
252.0	110	140	200	240	35.2	180	50	SMR250
314.5	85	115	160	190	36.0	192	62	SMR315
370.0	85	115	160	160	42.0	204	74	SMR400
Seal kit to suit SMR orbital motor								SMR9AFDZ



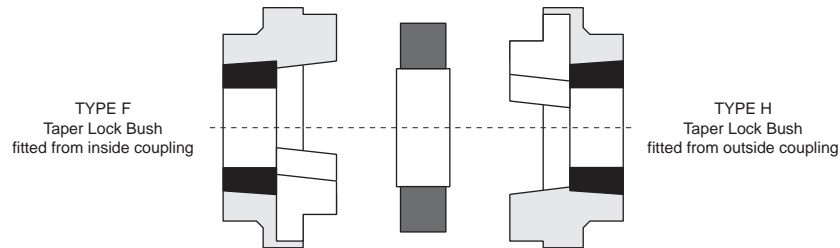
Orbital Motor Type SMS (RBS)

DISPLACEMENT cm ³ /rev	MAX WORKING PRESSURE bar			MAX SPEED rpm	TORQUE daNm	DIMENSIONS			PART NUMBER
	P1	P2	P3			L	L1	L2	
80.6	175	210	225	800	19.0	167	16	123.2	SMS80
100.8	175	210	225	748	24.0	171	20	127.2	SMS100
125.0	175	210	225	600	31.0	176	25	132.2	SMS125
157.2	150	210	225	470	31.6	182	31.5	138.7	SMS160
200.0	140	160	225	375	40.0	191	40	147.2	SMS200
252.0	125	160	200	300	45.0	201	50	157.2	SMS250
314.5	120	140	185	240	56.0	213	62	169.2	SMS315
370.0	100	120	140	200	53.6	225	74	181.2	SMS400
Seal kit to suit SMS orbital motor								SMS9AFDZ	

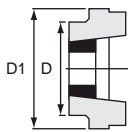


Orbital Motor Type SMT (OMT)

DISPLACEMENT cm ³ /rev	MAX WORKING PRESSURE bar			MAX SPEED rpm	TORQUE daNm	DIMENSIONS			PART NUMBER
	P1	P2	P3			L	L1	L2	
160.1	200	240	280	614	47.1	195	14	134.5	SMT160
201.4	200	240	280	615	58.9	200	19	148.5	SMT200
251.8	200	240	280	615	72.7	202	21	150.5	SMT250
326.3	200	240	280	380	96.2	208	27	156.5	SMT315
410.9	180	210	240	302	109.5	215	34	163.5	SMT400
523.6	160	180	210	237	124.5	223	42	171.5	SMT500
629.1	140	160	190	196	131.8	235	54	183.5	SMT630
801.8	125	130	160	154	146.4	246	65	194.5	SMT800
Seal kit to suit SMT orbital motor									SMT9AFDZ



HRC Couplings

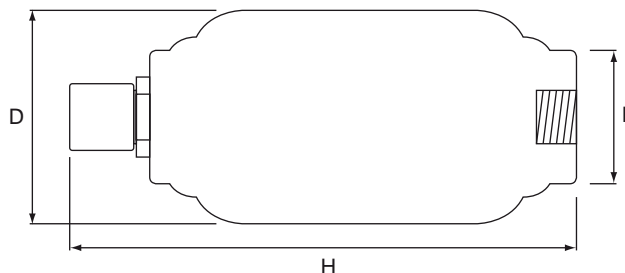


SIZE	D1	D	TYPE B FLANGE PILOT BORE	TYPE F FLANGE TAPER LOCK	TAPER LOCK BUSH	TYPE H FLANGE TAPER LOCK	PLASTIC COUPLING
70	69	60	HRC70B	HRC70FTL	1008	HRC70HTL	HRC970
90	85	70	HRC90B	HRC90FTL	1108	HRC90HTL	HRC990
110	112	100	HRC110B	HRC110FTL	1610	HRC110HTL	HRC9110
130	130	105	HRC130B	HRC130FTL	1610	HRC130HTL	HRC9130
150	150	115	HRC150B	HRC150FTL	2012	HRC150HTL	HRC9150

Diaphragm Type Hydropneumatic Accumulator

Technical Features

Maximum working pressure: 250 bar
 Test pressure: PS x 1.43 bar
 Maximum preload: 160 bar
 Body: In cold formed steel
 Construction: End parts welded in protected argon atmosphere
 Working temperature: -20°C to +80°C
 Additional information: Non replaceable can be used with mineral oils and non corrosive fluids
 Compression ratio: Recommended: P2/P0 = 2.5 (Maximum P2/P0 = 4)
 Mechanical Life: The number of cycles is inversely proportional to the increase of the compression ratio



MAX PRESSURE	NITROGEN VOLUME	MAX PRELOAD	FEMALE PORT	MAX FLOW	DIMENSIONS			PART NUMBER
					H	D	E	
250 bar	0.15 litres	160 bar	1/2" BSP	40 lpm	142	70	45	H100R12
250 bar	0.35 litres	160 bar	1/2" BSP	35 lpm	205	70	35	H350R12
250 bar	0.45 litres	160 bar	1/2" BSP	50 lpm	167	92	55	H500R12
250 bar	0.7 litres	160 bar	1/2" BSP	40 lpm	220	92	40	H700R12
250 bar	1.0 litres	160 bar	1/2" BSP	50 lpm	200	115	60	H1000R12
250 bar	1.4 litres	160 bar	1/2" BSP	40 lpm	270	115	60	H1400R12
250 bar	2.0 litres	160 bar	1/2" BSP	40 lpm	350	115	60	H2000R12
210 bar	3.8 litres	135 bar	3/4" BSP	80 lpm	320	170	95	H4000R34

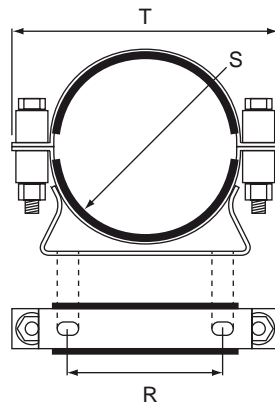
Note: When ordering Accumulators the required precharge of the Accumulator must be stated.
 e.g. If a type H700R with 1/2" thread and a precharge of 30 bar is required the Part Number is H700R1230.



Loader Soft Drive Kit 0.70 Litre

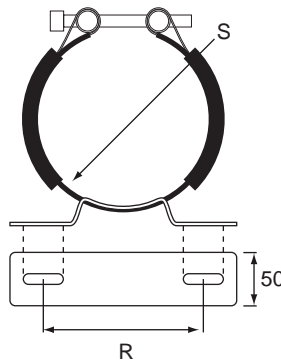
Soft drive kit complete with accumulator precharged to 30 bar. Comes with clamp, valve and fittings.
 Application: Front end loaders

DESCRIPTION	PART NUMBER
Soft drive kit 0.7 litre with manual ON / OFF valve	SDK750
Soft drive kit 0.7 litre with electric ON / OFF valve with LED 'ON' indicator	SDK75012V



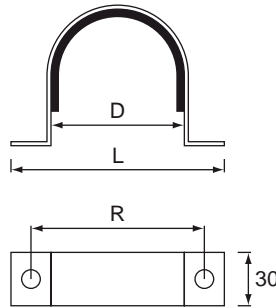
Accumulator Clamp - CR Series

DIMENSIONS			PART NUMBER
S	R	T	
114 - 116	100	180	CR114
168 - 172	148	230	CR168
223 - 225	216	290	CR223



Accumulator Clamp - CRO Series

DIMENSIONS		PART NUMBER
S	R	
68 - 73	101 - 135	CRO70
92 - 101	101 - 135	CRO92
109 - 117	101 - 135	CRO114
117 - 126	101 - 135	CRO125
158 - 169	101 - 135	CRO168



Accumulator Clamp - CRE Series

DIMENSIONS			PART NUMBER
L	R	D	
125	99	70	CRE70
150	125	92	CRE92
185	160	115	CRE115
215	190	138	CRE138



AR Type Filling and Testing Equipment

This equipment is essential for the operations of control and restoration of nitrogen pressure in accumulators.

Pressure range: 0 - 250 bar
 Body: In zinc-plated steel
 Standard Execution: 2.5m flexible pipe for cylinder nitrogen with threaded connection of 3/8" BSP

TYPE	DESCRIPTION	MANOMETER SCALE	PART NUMBER
AR5	Accumulator filling and testing equipment	0 - 250 bar	AR50250