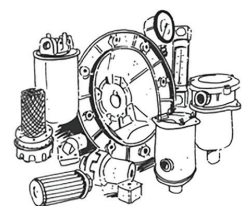




PRICELIST



PRICELIST



WARNING

Hydraulic failures, incorrect or improper use of components and system design by persons without sufficient expertise may cause serious injury, property damage and even Death.

DISCLAIMER

By using this Price List you acknowledge that you have read, understand and you agree to be bound by the following terms and conditions.

This Price List Catalogue is provided by Timalco Hydraulics Pty Ltd to give general product information only. It is the responsibility of the user to have the technical expertise, to evaluate, assess and make final selection. Due to the complexity and diversity of possible hydraulic systems, circuits and working conditions Timalco and its employees can only offer general product information. It is the sole responsibility for the user to ensure that all product specifications, safety warnings, government regulations and correct procedures are considered and met.

Timalco Hydraulics Pty Ltd has endeavoured to produce accurate information in this Price List and shall not be responsible for any incorrect information that results from unintentional oversight.

Due to the continuous improvement of products, the product specifications in this Price List are subject to change by Timalco Hydraulics Pty Ltd at anytime, without notice.

All prices in this price list exclude Goods and Services Tax (GST).

All prices in this price list are subject to change without notice.



A Brief History

Timalco Hydraulics is an Australian Family-Owned hydraulic wholesaler, established in 2001, when our owners Tim and Malcolm, had a vision to offer an affordable, quality, alternative to the Australian Market. Since the beginning, Timalco has endeavoured to provide the best quality products at the best prices in the market.

Ever since, the Timalco family has grown to a team of seventeen dedicated people across two branches who have the knowledge, ability and desire to assist our highly valued customers.

In the last 22 years, Timalco, like so many other businesses, has survived many strange periods including economic downturns, shipping dilemmas and a world pandemic! We are extremely proud to be in the position we are in today and look forward to our future with the focus to continue *to make our customers competitive*. We are always evaluating new quality products with the view and intention to increase our product options and market share to assist our valued customers.

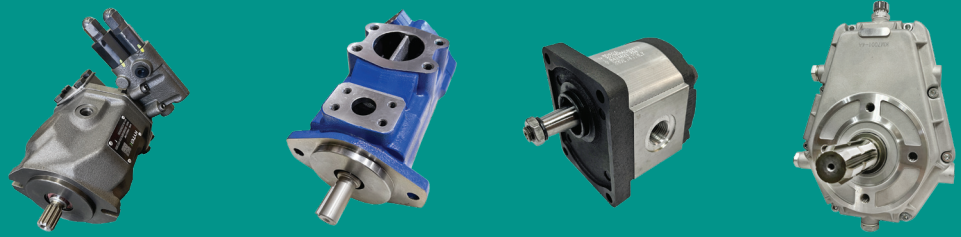
Please still call us, email us and visit us wherever needed.

Adelaide: sales@timalco.com.au 08 8262 4333

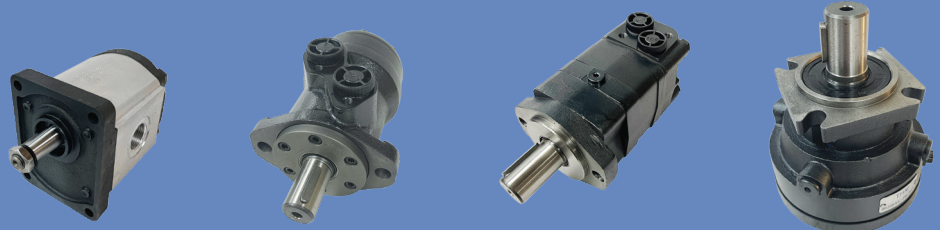
Melbourne: vicsales@timalco.com.au 03 9738 2040



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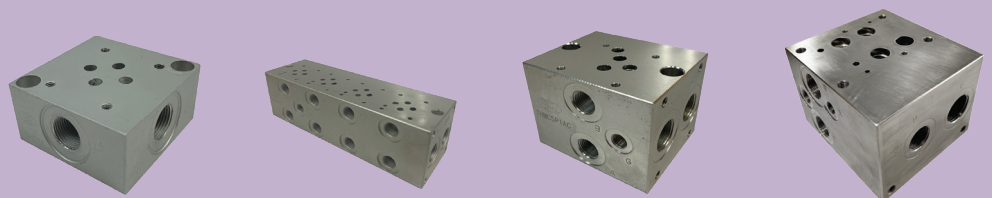
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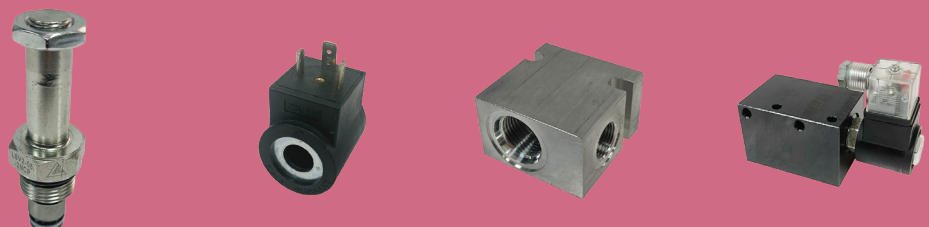
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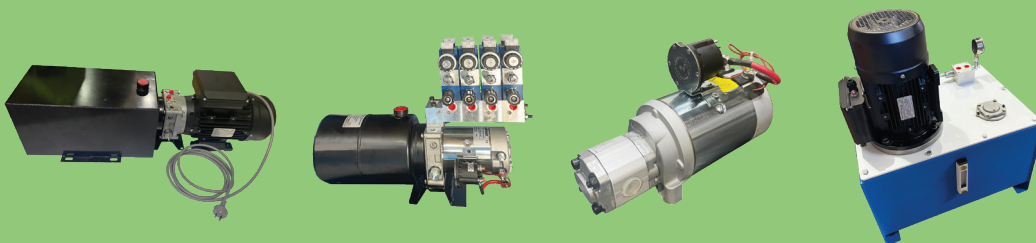
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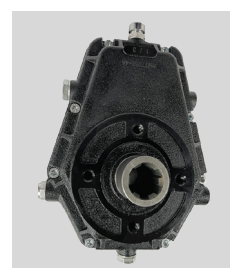
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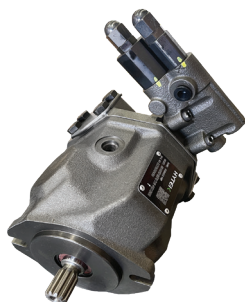
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HA10VSO

Variable Displacement Pumps

Splined or Straight Keyed Shaft
280 Bar
Mechanical Displacement Limiter
Pressure Compensated and Load
Sense Control



The HA10VSO Open Loop Variable Displacement Piston Pump has numerous controller, shaft and mounting options. The single pump comes standard with a maximum displacement adjustment and SAE flange ports. We also stock a through drive version that offers SAE mounting for a rear pump.

Pumps with SAE Splined Shafts

Part Number	Description	Mounting	Flange Ports	Shafts	List
HA10VSO18DFR/31RPSC12N00	18cc Piston Pump L/Sense	SAE A 2 Bolt	3/4" & 1"	3/4" 11T	2166.00
HA10VSO18DFR/31RPUC12N00	18cc Piston Pump L/Sense	SAE A 2 Bolt	3/4" & 1"	5/8" 9T	2166.00
HA10VSO28DFR/31RPSC12N00	28cc Piston Pump L/Sense	SAE B 2 Bolt	3/4" & 1 1/4"	7/8" 13T	2287.00
HA10VSO28DFR/31RPUC12N00	28cc Piston Pump L/Sense	SAE B 2 Bolt	3/4" & 1 1/4"	5/8" 9T	2287.00
HA10VSO45DFR/31RPSC12N00	45cc Piston Pump L/Sense	SAE B 2 Bolt	1" & 1 1/2"	1" 15T	2590.00
HA10VSO45DFR/31RPUC12N00	45cc Piston Pump L/Sense	SAE B 2 Bolt	1" & 1 1/2"	7/8" 13T	2590.00
HA10VSO71DFR/31RPSC12N00	71cc Piston Pump L/Sense	SAE C 2 Bolt	1 1/4" & 2"	1 1/4" 14T	3270.00
HA10VSO100DFR/31RPSC12N00	100cc Piston Pump L/Sense	SAE C 2 Bolt	1 1/4" & 2 1/2"	1 1/2" 17T	5066.00
HA10VSO100DFR/31RPUC12N00	100cc Piston Pump L/Sense	SAE C 2 Bolt	1 1/4" & 2 1/2"	1 1/4" 14T	5066.00
HA10VSO140DFR/31RPSC12N00	140cc Piston Pump L/Sense	SAE D 4 Bolt	1 1/4" & 2 1/2"	1 3/4" 13T	7865.00

Pumps with Straight Keyed Metric Shafts

Part Number	Description	Mounting	Flange Ports	Shafts Str Key	List
HA10VSO18DFR/31RPPC12N00	18cc Piston Pump L/Sense	SAE A 2 Bolt	3/4" & 1"	18mm	2166.00
HA10VSO28DFR/31RPPC12N00	28cc Piston Pump L/Sense	SAE B 2 Bolt	3/4" & 1 1/4"	22mm	2287.00
HA10VSO45DFR/31RPPC12N00	45cc Piston Pump L/Sense	SAE B 2 Bolt	1" & 1 1/2"	25mm	2590.00
HA10VSO71DFR/31RPPC12N00	71cc Piston Pump L/Sense	SAE C 2 Bolt	1 1/4" & 2"	32mm	3270.00
HA10VSO100DFR/31RPPC12N00	100cc Piston Pump L/Sense	SAE C 2 Bolt	1 1/4" & 2 1/2"	40mm	4780.00



HA10VSO Horsepower Control



Part Number	Description	Set @ Kw	Splined Shaft	List
HA10VSO28DFLR/31RPSC12NOO	28cc Piston Pump Horsepower Control	5.5Kw	7/8" 13T	2529.00
HA10VSO45DFLR/31RPSC12NOO	45cc Piston Pump Horsepower Control	7.5Kw	1" 15T	2844.00
HA10VSO71DFLR/31RPSC12NOO	71cc Piston Pump Horsepower Control	11Kw	1 1/4" 14T	3732.00
HA10VSO100DFLR/31RPSC12NOO	100cc Piston Pump Horsepower Control	*	1 1/2" 17T	5770.00
HA10VSO140DFLR/31RPSC12NOO	140cc Piston Pump Horsepower Control	*	1 3/4" 13T	TBA

Seal Kits

Part Number	Size	18	28	45	71	100	140
HA10VSO(size)-SK	LIST	*	\$146.00	\$170.00	\$218.00	\$242.00	\$267.00

HA10VSO Variable Displacement Pumps

280 Bar

Pressure Compensated, Load Sense and Remote Pressure

SAE Through Drive



SAE Through Drive

Part Number	Description	Through Drive		List
		Mount	Splined Shaft	
HA10VSO28DFR/31RPSC12K01	28cc Piston Pump	SAE A 2 Bolt	5/8" 9T	2396.00
HA10VSO28DFR/31RPSC12K52	28cc Piston Pump	SAE A 2 Bolt	3/4" 11T	2396.00
HA10VSO28DFR/31RPSC12K02	28cc Piston Pump	SAE B 2 Bolt	7/8" 13T	2396.00
HA10VSO45DFR/31RPSC12K01	45cc Piston Pump	SAE A 2 Bolt	5/8" 9T	2735.00
HA10VSO45DFR/31RPSC12K52	45cc Piston Pump	SAE A 2 Bolt	3/4" 11T	2735.00
HA10VSO45DFR/31RPSC12K04	45cc Piston Pump	SAE B 2 Bolt	1" 15T	2735.00
HA10VSO71DFR/31RPSC12K01	71cc Piston Pump	SAE A 2 Bolt	5/8" 9T	3438.00
HA10VSO71DFR/31RPSC12K52	71cc Piston Pump	SAE A 2 Bolt	3/4" 11T	3438.00
HA10VSO71DFR/31RPSC12K04	71cc Piston Pump	SAE B 2 Bolt	1" 15T	3438.00
HA10VSO71DFR/31RPSC12K07	71cc Piston Pump	SAE C 2 Bolt	1 1/4" 14T	3438.00
HA10VSO100DFR/31RPSC12K04	100cc Piston Pump	SAE B 2 Bolt	1" 15T	5642.00
HA10VSO100DFR/31RPSC12K07	100cc Piston Pump	SAE C 2 Bolt	1 1/4" 14T	5642.00
HA10VSO100DFR/31RPSC12K52	100cc Piston Pump	SAE A 2 Bolt	3/4" 11T	5642.00
HA10VSO140DFR/31RPS*12K**	140cc Piston Pump			8766.00



Through Drive Couplings Supplied Separately

Part Number	Description	Through Drive		List
		Mount	Splined Shaft	
HA10VSO28-CPLG-K01	Coupling to suit Rear Pump	SAE A 2 Bolt	5/8" 9T	325.00
HA10VSO28-CPLG-K52		SAE A 2 Bolt	3/4" 11T	325.00
HA10VSO28-CPLG-K02		SAE B 2 Bolt	7/8" 13T	325.00
HA10VSO28-CPLG-K04		SAE B 2 Bolt	1" 15T	325.00
HA10VSO45-CPLG-K01		SAE A 2 Bolt	5/8" 9T	368.00
HA10VSO45-CPLG-K52		SAE A 2 Bolt	3/4" 11T	368.00
HA10VSO45-CPLG-K02		SAE B 2 Bolt	7/8" 13T	368.00
HA10VSO45-CPLG-K04		SAE B 2 Bolt	1" 15T	368.00
HA10VSO71-CPLG-K01		SAE A 2 Bolt	5/8" 9T	390.00
HA10VSO71-CPLG-K52		SAE A 2 Bolt	3/4" 11T	390.00
HA10VSO71-CPLG-K02		SAE B 2 Bolt	7/8" 13T	390.00
HA10VSO71-CPLG-K04		SAE B 2 Bolt	1" 15T	390.00
HA10VSO71-CPLG-K07		SAE C 2 Bolt	1 1/4" 14T	390.00
HA10VSO100-CPLG-K01		SAE A 2 Bolt	5/8" 9T	436.00
HA10VSO100-CPLG-K04		SAE B 2 Bolt	1" 15T	436.00
HA10VSO100-CPLG-K07		SAE C 2 Bolt	1 1/4" 14T	436.00
HA10VSO100-CPLG-K24		SAE C 2 Bolt	1 1/2" 17T	436.00
HA10VSO100-CPLG-K52		SAE C 2 Bolt	3/4" 11T	436.00
HA10VSO100-CPLG-K68		SAE B 2 Bolt	7/8" 13T	436.00
HA10VSO140-CPLG-K07		SAE D 4 Bolt	1 1/4" 14T	TBA



HA10VSO

Variable Displacement Pumps

Splined or Keyed Shaft

280 Bar

Mechanical Displacement Limiter

Ordering Code

HA10VS	O	71	DR	/31	R	-P	P	A	21	NOO
Axial piston unit	Type of operation	Size	Control Device	Series	Rotation	Seals	Shaft end	Mounting Flange	Service line connections	Through drives
HA10VS Variable Swashplate Design, for Industrial Applications Nominal Pressure 28Mpa, Peak Pressure 35MPA	O: Pump in Open Circuits	18 28 45 71 100 140	DR: Pressure Control DRG: Pressure Control, remotely controlled DFR: Pressure/ Flow Control DFR1: Pressure/ flow control, without orifice in X-Line	31	(View on shaft end) R: Clockwise L: Anticlockwise	P: NBR nitril-caoutchouc to Din ISO1629 (Shaft seal in FKM) V: FKM fluor-caoutchouc to Din ISO1629	See below	A: ISO 2-Hole B: ISO 4-Bolt C: SAE 2 Bolt	12: Pressure port B, Suction port S, (SAE ports at opposite sides Metric fixing thread)	

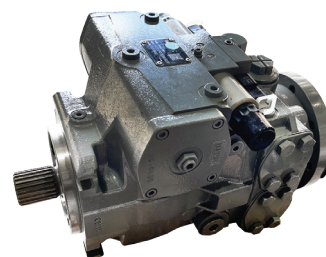
Specifications

Size			18	28	45	71	100	140
Displacement	Max	cc/rev	18	28	45	71	100	140
Max Speed	@ Max Displacement	rpm	3300	3000	2600	2200	2000	1800
Flow	@ Max Displacement & Max Speed	L/Min	59	84	117	156	200	252
	@ 1500 rpm	L/Min	27	42	68	107	150	210
Power	@ Max Flow & Max Pressure 280 Bar	KW	30	39	55	73	93	118
	@ 1500rpm & Max Pressure 280 Bar	KW	12.6	20	32	50	70	98
Torque	@ Max Displacement & Max Pressure 280 Bar	Nm	80	125	200	316	445	623
	@ Max Displacement & 100 Bar	Nm	30	45	72	113	159	223
Torsional Stiffness	Drive Shaft S	Nm/rad	11087	22317	37499	71884	121142	169537
	Drive Shaft R	Nm/rad	14850	26360	41025	76545	-	-
	Drive Shaft P	Nm/rad	13158	25656	41232	80627	132335	188406
Moment of Inertia	Rotary Unit	kgm ²	0.00093	0.0017	0.0033	0.0083	0.0167	0.0242
Case Volume		Litres	0.4	0.7	1.0	1.6	2.2	3.0
Weight	Withought Through Drive	Kg	12	15	21	33	45	60

HA4VTG

Closed Loop Piston Pump

with 24VDC Proportional Control
110cc
SAE B Through Drive



The output flow of the pump is completely variable and proportional to the electrical input to the solenoids.

Part Number	Description	Through Drive		List
		Mount	Splined Shaft	
HA4VTG90EP2/33R-NSD10F025SP	90cc Closed Loop	SAE C 4 Bolt	1 1/2" 23T	8400.00
HA4VTG90HW/33R-NLD10F001S	90cc Closed Circuit	SAE C 4 Bolt	1 1/2" 23T	8349.00
HA4VTG110EP2/33R-NSD10F025SP	110cc Axial Variable Piston Pump	SAE C 4 Bolt	SAE B 7/8" 13T	8858.00
HA4VTG110EP2/33L-NSD10F025SP		SAE C 4 Bolt	SAE B 7/8" 13T	8858.00
Spare Parts				
HA4VTG110-SK	Seal Kit			210.00
HA4VTG110-SS	Shaft Seal			160.00

Ordering Code

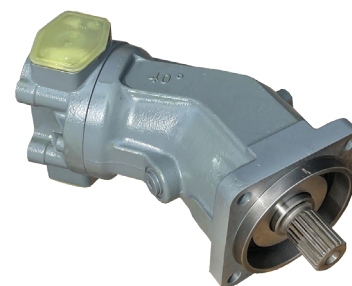
HA4VT	G	110	EP2	/3	3	R	-N	S	D	10	F02	5	S	P
Axial Piston Unit	Operating Mode	Size	Control	Series	Index	Rotation	Seals	Splined Shaft SAE	Mounting Flange		Through Drive	Valves	Filtration	
	Closed Circuits	110cc	EP2 24V Proportional Solenoid			R = Right Hand L = Left Hand	NBR	S: Without Coupling Flange	SAE C 4 bolt		SAE B 2 bolt	With High Pressure Relief Valve. Direct Acting.		

Specifications

Size		90	110
Displacement	mL/r	90	110
Max Speed @ Max Displacement	min	3050	3050
Flow	L/min	275	335.5
Power	kW	183	223.7
Torque	Nm	572	700
Approximate Weight	Kgs	48	48

HAA2FM Piston Motors

Bent Axis
SAE C 4 Bolt



Piston Motor

Part Number	Description	Through Drive		List
		Mount	Splined Shaft	
HAA2FM80/61W-VUX020	Piston Motor Bent Axis	SAE C 4 Bolt	1 3/8" 21T	4235.00
HAA2FM90/61W-VUX020	Piston Motor Bent Axis	SAE C 4 Bolt	1 3/8" 21T	4235.00

**V10 Series****Vane Pumps**

SAE A 2 Bolt Mount, UN O-ring Ports

Model	Ring Size Delivery US Gpm @1200 rpm	Displacement cc/rev	Max Speed rpm	Max Pressure bar	Dimension A mm	Dimension B mm	List
V10	1	3.3	4800	172	15.6	43.3	602.00
	2	6.6	4500	172	15.6	45	
	3	9.8	400	172	15.6	46.5	
	4	13.1	3400	172	22	46.5	
	5	16.4	3200	172	22	47.5	
	6	19.5	3000	152	27	47.5	
	7	22.8	2800	138	27	48.3	
V10F	Including Flow Control & Relief Head						846.00
V10P	Including Priority Flow & Relief Head						886.00

See Ordering Code Page 16



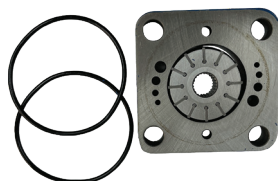
V10



V10F



V10P

V10 Cartridges

Part Number	Ring Size Delivery US Gpm @ 1200 rpm	cc/rev	List
PC-V10-1-R-20	1	3.3	334.00
PC-V10-2-R-20	2	6.6	334.00
PC-V10-3-R-20	3	9.8	334.00
PC-V10-4-R-20	4	13.1	366.00
PC-V10-5-R-20	5	16.4	366.00
PC-V10-6-R-20	6	19.5	366.00
PC-V10-7-R-20	7	22.8	366.00

V10 Shafts

Part Number	Description	List
PS-V10-1-20	Shaft 3/4" Straight Keyed	76.00
PS-V10-11-20	Shaft SAE A 5/8" 9T Splined	76.00
PS-V10-38-20	Shaft 3/4" 11T Splined	76.00

V10 Kits

PSK-V10-20	V10 Seal Kit	38.00
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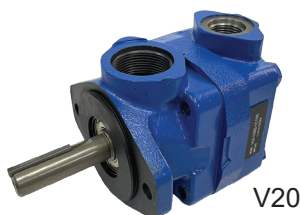
V20 Series

Vane Pumps

SAE A 2 Bolt Mount, UN O-ring Ports

Model	Ring Size Delivery US Gpm @1200 r pm	Displacement cc/rev	Max Speed rpm	Max Pressure bar	Dimension A mm	Dimension B mm	List
V20	6	19.5	3400	172	15.6	64.8	744.00
	7	22.8	3000	172	22	63.5	
	8	26.5	2800	172	22	64	
	9	29.7	2800	172	22	65.3	
	11	36.4	2500	172	27	65.3	
	12	39.0	2400	152	30.5	64.8	
	13	42.4	2400	152	30.5	65.3	
V20F	Including Flow Control & Relief Head						1130.00
V20P	Including Priority Flow and Relief Head						1180.00

See Ordering Code Page 16



V20

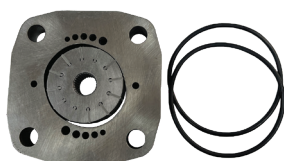


V20F



V20P

V20 Cartridges



Part Number	Ring Size Delivery US Gpm @ 1200 rpm	cc/rev	List
PC-V20-6-R-20	6	19.5	408.00
PC-V20-7-R-20	7	22.8	408.00
PC-V20-8-R-20	8	26.5	408.00
PC-V20-9-R-20	9	29.7	408.00
PC-V20-10-R-20	10	30	408.00
PC-V20-11-R-20	11	36.4	408.00
PC-V20-12-R-20	12	39.0	408.00
PC-V20-13-R-20	13	42.4	408.00
PC-V20-14-R-20	14	45	408.00

V20 Shafts

Part Number	Description	List
PS-V20-1-20	Shaft 3/4" Straight Keyed	124.00
PS-V20-11-20	Shaft 3/4" 11T Splined	124.00
PS-V20-38-20	Shaft 3/4" 11T Splined Heavy Duty	124.00
PS-V20-62-20	Shaft SAE A 5/8" 9T Splined	124.00

V20 Kits

PSK-V20-10	V20 Seal Kit	42.00
PSS-V20-10	V20 Shaft Seal	34.00



V10 and V20 Ordering Codes

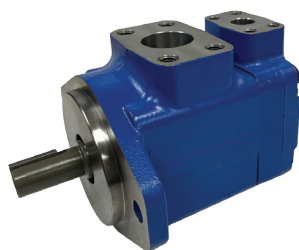
(F3-)	V10	-P	7	S	-1	C	20	-L
Prefix	Series	Inlet Port Connections	Code	Outlet Port Connections	Shafts	Outlet Positions	Design	Rotation
Omit- Using Antiwear Oil Water Glycol fluid F3- Phosphate ester fluid	V10	P-1" NPT Thread S-1.3125-12 Straight Thread (1 5/16" UNO) B-G1" Thread	1, 2, 3, 4 5, 6, 7	P-1/2" NPT Thread S-0.750-16 Straight Thread (3/4" UNO) B-G1/2" Thread	1-3/4" Str. Keyed 11-9T Splined	Viewed from cover end of pump A - Opposite Inlet Port B - 90°CCW from Inlet C - Inline with Inlet D - 90° CW from Inlet	20	Viewed from shaft end of pump L - Left Hand for counter clockwise R - Right Hand for clockwise
	V20	P-1-1/4" NPT Thread S-1.625-12 Straight Thread (1 5/8" UNO) B-G1-1/4" Thread	6, 7, 8, 9 10, 11, 12 13, 14	P-3/4" NPT Thread S-1.065-12 Straight Thread (1 1/6" UNO) B-G3/4" Thread	38-11 Tooth - 3/4" OD 62-Spline (V20 Only)		10	

V10F & P and V20F & P Ordering Codes

(F3-)	V20	F	-P	13	S	-1	A	8H	22	-L
Prefix	Series	Integral Valves	Inlet Port Connections	Code	Outlet Port Connections	Shafts	Outlet Positions	Integral Valves	Design	Rotation
Omit-Using antiwear oil Water Glycol fluid F3- Phosphate Ester Fluid	V10	F: Flow Control & Relief P: Priority Valve & Relief	D: 1 5/16-12str. Thread (V20 Only) P: 1" NPT Thread (v10 only) 1 1/4" NPT Thread (V20 only)	1 2 3 4 5 6 7	See Chart Below	1-3/4" Straight Keyed 3: Threaded with Woodruff Key 11: Splined V10 Only 12: Splined V10 Only 38: Splined 62 - SAE A Spline (V20 Only) See Charts	Viewed from cover end of pump A - Opposite Inlet Port B - 90°CCW from Inlet C - Inline with Inlet D - 90°CW from Inlet	Orifice No. Flow Rate LPM A - 1.7 B - 3.5 C - 5.2 D - 7 E - 8.6 F - 10 G - 12.1 H - 14 J - 15.5 K - 17.5	22	Viewed from shaft end of pump L - Left Hand for counter clockwise R - Right Hand for clockwise
	V20		S: 1 5/16-12 Straight Thread (V10 only) 1 5/8" - 12 Straight Thread (V20 only) T: 1 3/16-12 Straight Thread (V10 only)	6 7 8 9 10 11 12 13						

Porting

Code	Flow Control Cover		Priority Valve Cover		
	Pressure	Tank	Primary Outlet	Secondary Outlet	Tank
K	-	-	9/16-18 (V10P)	3/4-16 (V10P)	9/16-18 (V10P)
P	9/16-18 (V10F & V20F)	1/2" NPT (V10F & V20F)	-	-	-
S	3/4-16 (V10F)	1-1/16-12 (V20F)			
T	3/4-16 (V10F)	3/4-16 (V10F)	3/4-16 (V20P)	7/8-14 (V20P)	3/4-16 (V20P)



Model	Cartridge Code	cc/rev	Max rpm	Max Press bar	List
20VQ SAE B 2 Bolt Mtg	2	7	2700	210	1052.00
	3	11.7	2700	210	
	4	15	2700	210	
	5	18	2700	210	
	6	19	2700	210	
	7	22	2700	210	
	8	27	2700	210	
	9	30	2700	210	
	10	31.5	2700	210	
	11	36	2700	210	
	12	40	2700	160	
	14	45	2700	140	
25VQ SAE B 2 Bolt Mtg	10	32.5	2700	210	1488.00
	12	38.3	2700	210	
	14	43.3	2700	210	
	15	47.3	2500	210	
	17	52.5	2500	210	
	19	60	2500	210	
	21	65	2500	210	
35VQ SAE C 2 Bolt Mtg	21	64	2500	210	1744.00
	25	79.2	2500	210	
	30	95	2500	210	
	32	101	2500	210	
	35	109	2400	210	
	38	118	2400	210	
	45	140	2400	210	
45VQ SAE C 2 Bolt Mtg	42	134	2400	175	2514.00
	45	147	2200	175	
	50	156	2200	175	
	57	180	2200	175	
	60	189	2200	175	
	66	208	2200	175	
	75	237	2200	140	

*Refer next page for ordering code



Ordering Code

(F3-)	20VQ	11	A	(F)	-1	A	30	*
Prefix	Series	Cartridge Code	Port Connections	Mounting	Shaft	Outlet Position	Design	Rotation
Omit-Using antiwear oil water Glycol Fluid F3 - Phosphate Ester Fluid	20VQ	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14	A - SAE 4 Bolt Flange	Omit- Flange Mtd F - Foot Mtg	1 - Str Key 151 - Spline	Viewed from cover end of pump	30	Viewed from shaft end of pump Omit - RH L - LH
	25VQ	10, 12, 14, 15, 17, 19, 21			1 - Str Key 86 - HD Str Key 11 - Spline	A - Opposite inlet port	20	
	35VQ	21, 25, 30, 32, 35, 38, 45				B - 90° CCW from inlet		
	45VQ	42, 45, 50, 57, 60, 66, 75				C - Inline with Inlet D - 90° CW from Inlet		



Cartridges

Part Number	Description	List
F3-PC-20VQ-**-R-10	Cartridge 20VQ	730.00
F3-PC-25VQ-**-R-10	Cartridge 25VQ	888.00
F3-PC-35VQ-**-R-10	Cartridge 35VQ	1052.00
F3-PC-45VQ-**-R-10	Cartridge 45VQ	1222.00

Seal Kits

PSK-20VQ-10	20VQ Seal Kit	86.00
PSK-25VQ-10	25VQ Seal Kit	86.00
PSK-35VQ-10	35VQ Seal Kit	100.00
PSK-45VQ-10	45VQ Seal Kit	126.00

Shafts

PS-20VQ-1-30	Shaft 7/8" Straight Keyed	120.00
PS-20VQ-151-30	Shaft SAE B 7/8" 13T Splined	120.00
PS-25VQ-1-20	Shaft 7/8" Straight Keyed	190.00
PS-25VQ-11-20	Shaft SAE B 7/8" 13T Splined	190.00
PS-25VQ-86-20	Shaft 1" Straight Keyed	190.00
PS-35VQ-1-20	Shaft 1 1/4" Straight Keyed	228.00
PS-35VQ-11-20	Shaft SAE C 1 1/4" 14T Splined	228.00
PS-35VQ-86-20	1 3/8" Straight Keyed	228.00
PS-45VQ-1-20	Shaft 1 1/4" Straight Keyed	324.00
PS-45VQ-11-20	Shaft SAE C 1 1/4" 14T Splined	324.00
PS-45VQ-86-20	Shaft 1 1/2" Straight Keyed	324.00

Double VQ Vane Pumps

Model	Front Section (cc/rev)	Ports SAE Flanged	Rear Section (cc/rev)	Front Flange Mount	Shaft	List
2520VQ	32.5, 38.3, 43.3, 47.3, 52.5, 60, 65	2 1/2" Suction 1" Pressure Front 3/4" Pressure Rear	7, 11.7, 15, 18, 19, 22, 27, 30, 31.5, 36, 40, 45	SAE B 2 Bolt	7/8" Keyed	2118.00
3520VQ	64, 79.2, 95, 101, 109, 118	3" Suction 1 1/4" Pressure Front 3/4" Pressure Rear	7, 11.7, 15, 18, 19, 22, 27, 30, 31.5, 36, 40, 45	SAE C 2 Bolt	1 1/4" Keyed or 1 1/2" Keyed or SAE C 14T Splined	2386.00
3525VQ	64, 79.2, 95, 101, 109, 118	3" Suction 1 1/4" Pressure Front 1" Pressure Rear	32.5, 38.3, 43.3, 47.3, 52.5, 60, 65			2562.00
4520VQ	134, 147, 156, 180, 189, 208, 237	3 1/2" Suction 1 1/2" Pressure Front 3/4" Pressure Rear	7, 11.7, 15, 18, 19, 22, 27, 30, 31.5, 36, 40, 45			2988.00
4525VQ	134, 147, 156, 180, 189, 208, 237	3" 1/2" Suction 1 1/2" Pressure Front 1" Pressure Rear	32.5, 38.3, 43.3, 47.3, 52.5, 60, 65			3220.00
4535VQ	134, 147, 156, 180, 189, 208, 237	4" Suction 1 1/2" Pressure Front 1 1/4" Pressure Rear	64, 79.2, 95, 101, 109, 118, 140			3566.00

*Refer next page for ordering code





Ordering Code

(F3-)	****VQ	** Cartridge Code	A	** Cartridge Code	(F)	-*	**	20	*
Prefix	Series	Front Pump (Shaft End)	Port Connections	Rear Pump (Cover End)	Mounting	Shaft	Port Orientation	Design	Rotation
Omit-Using Antiwear Oil Water Glycol Fluid F3 - Phosphate Ester Fluid	2520VQ	10, 12, 14, 15, 17, 19, 21	A - SAE 4 Bolt Flange	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14	Omit - Flange Mtg F - Foot Mtg	1 - Straight Key 86 - HD Straight Key 11 - Spline	CC Std See Catalogue	20	Viewed from shaft end of pump Omit - RH L - LH
	3525VQ	21, 25, 30, 32, 35, 38, 45		10, 12, 14, 15, 17, 19, 21					
	4525VQ	42, 45, 50, 57, 60, 66, 75		10, 12, 14, 15, 17, 19, 21					
	3520VQ	21, 25, 30, 32, 35, 38, 45		2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14					
	4520VQ	42, 45, 50, 57, 60, 66, 75		2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14					
	4535VQ	42, 45, 50, 57, 60, 66, 75		21, 25, 30, 32, 35, 38, 45					

Cartridges

Part Number	Description	List
F3-PC20VQ-**R-10	Front Cartridge 20VQ	730.00
F3-PC25VQ-**R-10	Front Cartridge 25VQ	888.00
F3-PC35VQ-**R-10	Front Cartridge 35VQ	1052.00
F3-PC45VQ-**R-10	Front Cartridge 45VQ	1222.00
F3-PCT20VQ-**R-10	Rear Cartridge 20VQ	782.00
F3-PCT25VQ-**R-10	Rear Cartridge 25VQ	948.00
F3-PCT35VQ-**R-10	Rear Cartridge 35VQ	TBA

Seal Kits

PSK-2520VQ-10	2520VQ Seal Kit	126.00
PSK-3520VQ-10	3520VQ Seal Kit	134.00
PSK-3525VQ-10	3525VQ Seal Kit	152.00
PSK-4520VQ-10	4520VQ Seal Kit	168.00
PSK-4525VQ-10	4525VQ Seal Kit	182.00
PSK-4535VQ-10	4535VQ Seal Kit	190.00

Shafts

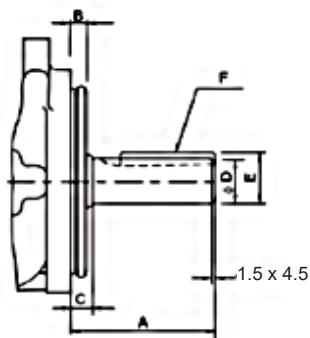
PS-2520VQ-1-20	Shaft 7/8" Straight Keyed	286.00
PS-2520VQ-11-20	Shaft SAE B 78" 13T Splined	286.00
PS-2520VQ-86-20	Shaft 1" Straight Keyed	286.00
PS-352*VQ-1-20	Shaft 1 1/4" Straight Keyed	326.00
PS-352*VQ-11-20	Shaft SAE C 1 1/4" 14T Splined	326.00
PS-352-*VQ-86-20	1 3/8" Straight Keyed	326.00
PS-45**VQ-1-20	Shaft 1 1/4" Straight Keyed	606.00
PS-45**VQ-11-20	Shaft SAE C 1 1/4" 14T Splined	606.00
PS-45**VQ-86-20	Shaft 1 1/2" Straight Keyed	606.00

Straight Keyed Shafts

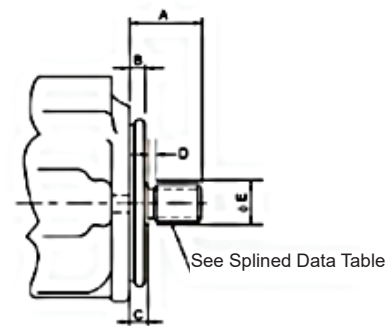
Model VQ	Shaft Code	A	B	C	D	E	F Key Width X Length
20VQ	1	59	9.53	12.1	22.23/22.20	24.5/24.4	4.76 x 32
25VQ	1	59	9.53	11.1	22.23/22.20	24.5/24.4	4.76 x 32
2520VQ	86	78	9.53	11.1	25.37/25.35	28.3/28.1	6.36 x 50.8
35VQ	1	73.2	9.53	11.1	31.75/31.70	35.36/34.10	7.94 x 38.1
352*VQ	86	86	9.53	11.1	34.90/34.87	38.6/38.3	7.94 x 54
45VQ	1	62	12.7	14.22	21.75/31.70	35.36/34.10	7.94 x 28.5
45**VQ	86	87.4	12.7	14.22	38.07/38.05	42.4/42.1	9.54 x 50.8

Splined Shafts

20VQ	151	41.1	9.53	11.1	3.9	27.8	7/8" Dia 13T 16/32
25VQ 2520VQ	11	44.5	9.53	11.1	3.9	27.8	7/8" Dia 13T 16/32
35VQ 352*VQ	11	58.7	9.53	11.1	6.35	35.1	1 1/4" Dia 14T 12/24
45VQ 45**VQ	11	61.9	12.7	14.3	9.7	39.6	1 1/4" Dia 14T 12/24
20VQ	151	41.1	9.53	11.1	3.9	27.8	7/8" Dia 13T 16/32
25VQ 2520VQ	11	44.5	9.53	11.1	3.9	27.8	7/8" Dia 13T 16/32
35VQ 352*VQ	11	58.7	9.53	11.1	6.35	35.1	1 1/4" Dia 14T 12/24
45VQ 45**VQ	11	61.9	12.7	14.3	9.7	39.6	1 1/4" Dia 14T 12/24



Straight Keyed Shaft



Splined Shaft



**Group 1 Single Pumps**

Taper Shaft 1:8
3/8" BSPP Threaded Ports

**Standard Alloy End Plates**

High Pressure Cast Iron End Plates Available Upon Request

Part Number	cc/rev	Ports		List
		Pressure	Suction	
PZ1A11C401D	1.1cc	3/8" BSPP	3/8" BSPP	311.00
PZ1A16C401D	1.6cc			311.00
PZ1A21C401D	2.1cc			311.00
PZ1A26C401D	2.6cc			311.00
PZ1A32C401D	3.2cc			311.00
PZ1A37C401D	3.7cc			311.00
PZ1A42C401D	4.2cc			311.00
PZ1A48C401D	4.8cc			318.00
PZ1A55C401D	5.5cc			318.00
PZ1A62C401D	6.2cc			318.00
PZ1A78C401D	7.8cc			318.00
PZ1A88C401D	8.8cc			318.00

For Left Hand Rotation - Change D to S

**Group 1 Multiple Pumps**

Threaded Ports
Max Torque 27NM
Assembly Kits Supplied with Multiple Pumps

**Front Pump**

Part Number	cc/rev	L Dim	Ports		List
			Pressure	Suction	
PZ1A11C401AD	1.1cc	38.3	3/8" BSPP	3/8" BSPP	376.00
PZ1A16C401AD	1.6cc	40.3			376.00
PZ1A21C401AD	2.1cc	42.3			376.00
PZ1A26C401AD	2.6cc	44.3			374.00
PZ1A32C401AD	3.2cc	46.5			374.00
PZ1A37C401AD	3.7cc	48.6			374.00
PZ1A42C401AD	4.2cc	50.6			374.00
PZ1A48C401AD	4.8cc	53			383.00
PZ1A55C401AD	5.5cc	55.8			383.00
PZ1A62C401AD	6.2cc	58.6			383.00
PZ1A78C401AD	7.8cc	65			383.00
PZ1A88C401AD	8.8cc	69			383.00

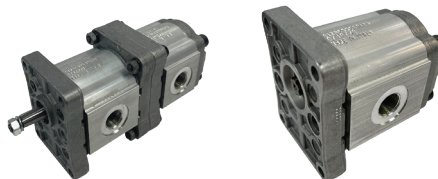
Multiple Pump Assembly Kit Required.



Intermediate Pump

Part Number	cc/rev	Ports		List
		Pressure	Suction	
PZ1A110001ID	1.1cc	3/8" BSPP	3/8" BSPP	378.00
PZ1A160001ID	1.6cc			378.00
PZ1A210001ID	2.1cc			378.00
PZ1A260001ID	2.6cc			378.00
PZ1A320001ID	3.2cc			378.00
PZ1A370001ID	3.7cc			378.00
PZ1A420001ID	4.2cc			378.00
PZ1A480001ID	4.8cc			384.00
PZ1A550001ID	5.5cc			384.00
PZ1A620001ID	6.2cc			384.00
PZ1A780001ID	7.8cc			384.00
PZ1A880001ID	8.8cc			384.00

Multiple Pump Assembly Kit Required.



Rear Pump

Part Number	cc/rev	Ports		List
		Pressure	Suction	
PZ1A0110001PD	1.1cc	3/8" BSPP	3/8" BSPP	355.00
PZ1A0160001PD	1.6cc			355.00
PZ1A0210001PD	2.1cc			355.00
PZ1A0260001PD	2.6cc			355.00
PZ1A0320001PD	3.2cc			355.00
PZ1A0370001PD	3.7cc			355.00
PZ1A0420001PD	4.2cc			355.00
PZ1A0480001PD	4.8cc			360.00
PZ1A0550001PD	5.5cc			360.00
PZ1A0620001PD	6.2cc			360.00
PZ1A0780001PD	7.8cc			360.00
PZ1A0880001PD	8.8cc			360.00

Multiple Pump Assembly Kit Required.

Assembly Kits

Part Number	Description	Pump Type	+	Pump Type	List
K1000000	Group 1 to Group 1	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31		PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31	38.00



Seal Kits

Part Number	Description	List
PZ1A-SK	Group 1 Body Seal Kit	51.00
PZ1A-SS	Group 1 Shaft Seal	32.00

Specifications

Type		1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.8	5.5	6.2	7.8	8.8
Capacity	cc/rev	1,08	1,59	2,09	2,59	3,15	3,68	4,19	4,79	5,49	6,2	7,81	8,82
Max. Working Pressure	bar	210	210	210	210	210	210	190	180	160	140	120	100
Peak Pressure	bar	250	250	250	250	250	250	230	220	200	180	160	140
Max. Speed for P1 Pressure	r.p.m	6000	6000	6000	5500	4500	4000	3800	3500	3500	3000	3000	3000
Max. Speed Without Load	r.p.m	8000	8000	8000	8000	7000	6000	5500	5000	4500	4500	4000	4000
Min. Speed for P1 (unidirect)	r.p.m	1100	950	800	700	600	500	450	400	400	400	400	400
Overall Dimensions	A	73,8	75,8	77,8	79,8	82	84,1	86,1	88,5	91,3	94,1	100,5	104,5
	B	34,6	35,6	36,6	37,6	38,7	39,8	40,8	42	43,4	44,8	48	50

PZ1 Model Identification Code

PZ1A	11	C	4	01	A	D
------	----	---	---	----	---	---

Model

A = Alloy End Plate
AG = Cast Iron End Plate

Capacity cc/rev

1.1
1.6
2.1
2.6
3.2
3.7
4.2
4.8
5.5
6.2
7.8
8.8

Input Shaft

C = Taper Shaft
0 = Splined Shaft

Ports

01 = 3/8" BSPP

Rotation

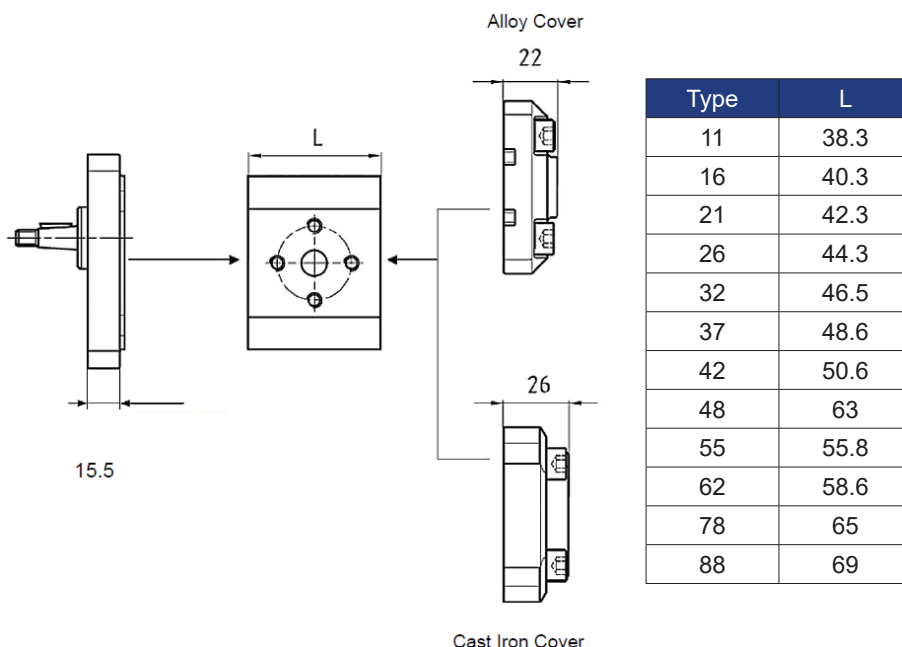
D = Right Hand
S = Left Hand

Flange

0 = Intermediate & Rear
4 = Single & Front

Type

= Single
A = Front
I = Intermediate
P = Rear



Cast Iron Cover

PZ2AG**Group 2**

1:8 Taper Shaft

BSPP Threaded Ports

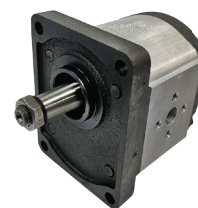
Part Number	cc/rev	Length mm	Ports		List
			Pressure	Suction	
PZ2AG04C034TD	4.40	88	1/2" BSPP	1/2" BSPP	455.00
PZ2AG06C034TD	6.28	91	1/2" BSPP	1/2" BSPP	455.00
PZ2AG08C034TD	8.16	94	1/2" BSPP	1/2" BSPP	455.00
PZ2AG11C034TD	11.30	107	1/2" BSPP	1/2" BSPP	479.00
PZ2AG14C034TD	14.45	112	1/2" BSPP	3/4" BSPP	479.00
PZ2AG17C034TD	16.95	116	1/2" BSPP	3/4" BSPP	479.00
PZ2AG20C034TD	20.10	121	1/2" BSPP	3/4" BSPP	479.00
PZ2AG25C034TD	25.75	130	1/2" BSPP	3/4" BSPP	500.00
PZ2AG31C034TD	31.40	139	1/2" BSPP	3/4" BSPP	528.00

Cast Iron Covers and Special Busings, Projected for Heavy Duty.

For Left Hand Rotation, Change D to S.

PZ2AG**Group 2**

1:8 Taper Shaft

Flanged Ports

Part Number	cc/rev	Length mm	Flanged Porting						List
			Pressure			Suction			
			D	E	F	D	E	F	
PZ2AG04C032D	4.40	88	30	13	M6	30	13	M6	422.00
PZ2AG06C032D	6.28	91	30	13	M6	30	13	M6	422.00
PZ2AG08C032D	8.16	94	30	13	M6	30	13	M6	422.00
PZ2AG11C033D	11.30	107	30	13	M6	40	20	M8	445.00
PZ2AG14C033D	14.45	112	30	13	M6	40	20	M8	455.00
PZ2AG17C033D	16.95	116	30	13	M6	40	20	M8	455.00
PZ2AG20C033D	20.10	121	30	13	M6	40	20	M8	455.00
PZ2AG25C033D	25.75	130	30	13	M6	40	20	M8	467.00
PZ2AG31C033D	31.40	139	30	13	M6	40	20	M8	495.00

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.

For Left Hand Rotation, Change D to S.



PZ2CG

SAE A 2 Bolt Mount
BSPP Threaded Ports



SAE 5/8" Keyed Shaft 5/32" Key

Part Number	cc/rev	Length mm	Porting		List
5/8" Keyed Shaft			Pressure	Suction	
PZ2CG04L4034TD	4.40	88	1/2" BSPP	1/2" BSPP	491.00
PZ2CG06L4034TD	6.28	91	1/2" BSPP	1/2" BSPP	491.00
PZ2CG08L4034TD	8.16	94	1/2" BSPP	1/2" BSPP	491.00
PZ2CG11L4034TD	11.30	107	1/2" BSPP	1/2" BSPP	517.00
PZ2CG14L4041TD	14.45	112	3/4" BSPP	3/4" BSPP	517.00
PZ2CG17L4041TD	16.95	116	3/4" BSPP	3/4" BSPP	517.00
PZ2CG20L4041TD	20.10	121	3/4" BSPP	3/4" BSPP	517.00
PZ2CG25L4041TD	25.75	130	3/4" BSPP	3/4" BSPP	542.00
PZ2CG31L4041TD	31.40	139	3/4" BSPP	3/4" BSPP	571.00

Cast Iron Covers and Special Busings, Projected for Heavy Duty.

For Left Hand Rotation, Change D to S.



SAE 9T Splined Shaft

Part Number	cc/rev	Length mm	Porting		List
9T SAE A Splined Shaft			Pressure	Suction	
PZ2CG04S4034TD	4.40	88	1/2" BSPP	1/2" BSPP	491.00
PZ2CG06S4034TD	6.28	91	1/2" BSPP	1/2" BSPP	491.00
PZ2CG08S4034TD	8.16	94	1/2" BSPP	1/2" BSPP	491.00
PZ2CG11S4034TD	11.30	107	1/2" BSPP	1/2" BSPP	517.00
PZ2CG14S4041TD	14.45	112	3/4" BSPP	3/4" BSPP	517.00
PZ2CG17S4041TD	16.95	116	3/4" BSPP	3/4" BSPP	517.00
PZ2CG20S4041TD	20.10	121	3/4" BSPP	3/4" BSPP	517.00
PZ2CG25S4041TD	25.75	130	3/4" BSPP	3/4" BSPP	542.00
PZ2CG31L4041TD	31.40	139	3/4" BSPP	3/4" BSPP	571.00

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.

For Left Hand Rotation, Change D to S.

PZ2BG

German Style

80mm Spigot

1:5 Taper Shaft

Square Flange Ports



Part Number	cc/rev	Shaft	Length mm	Pressure Port			Suction Port			List
1:5 Taper Shaft				C	D	E	C	D	E	
PZ2BG04A136D	4.40	Taper	88	35	15	M6	40	20	M6	494.00
PZ2BG06A136D	6.28	Taper	91	35	15	M6	40	20	M6	494.00
PZ2BG08A136D	8.16	Taper	94	35	15	M6	40	20	M6	494.00
PZ2BG11A136D	11.30	Taper	107	35	15	M6	40	20	M6	519.00
PZ2BG14A136D	14.45	Taper	112	35	15	M6	40	20	M6	519.00
PZ2BG17A136D	16.95	Taper	116	35	15	M6	40	20	M6	519.00
PZ2BG20A136D	20.10	Taper	121	35	15	M6	40	20	M6	519.00
PZ2BG25A136D	25.75	Taper	130	35	15	M6	40	20	M6	541.00

For Left Hand Rotation, Change D to S.

PZ2BG

German Style

80mm Spigot

Splined 9T DIN

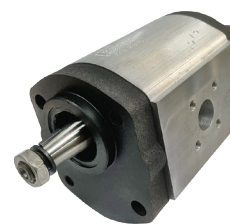
Part Number	cc/rev	Shaft DIN	Length mm	Pressure Port			Suction Port			List
Splined 9T DIN				C	D	E	C	D	E	
PZ2BG04B136D	4.40	9T Spline	88	35	15	M6	40	20	M6	547.00
PZ2BG06B136D	6.28	9T Spline	91	35	15	M6	40	20	M6	547.00
PZ2BG08B136D	8.16	9T Spline	94	35	15	M6	40	20	M6	547.00
PZ2BG11B136D	11.30	9T Spline	107	35	15	M6	40	20	M6	571.00
PZ2BG14B136D	14.45	9T Spline	112	35	15	M6	40	20	M6	571.00
PZ2BG17B136D	16.95	9T Spline	116	35	15	M6	40	20	M6	571.00
PZ2BG20B136D	20.10	9T Spline	121	35	15	M6	40	20	M6	571.00
PZ2BG25B136D	25.75	9T Spline	130	35	15	M6	40	20	M6	593.00

For Left Hand Rotation, change D to S.

**PZ2DG**

Deutz Style

50mm Spigot

1:5 Taper Shaft

Part Number	cc/rev	Shaft	Length mm	Pressure Port			Suction Port			List
RH Rotation				C	D	E	C	D	E	
PZ2DG04A336D	4.40	Taper	88	35	15	M6	40	20	M6	494.00
PZ2DG06A336D	6.28	Taper	91	35	15	M6	40	20	M6	494.00
PZ2DG08A336D	8.16	Taper	94	35	15	M6	40	20	M6	494.00
PZ2DG11A336D	11.30	Taper	107	35	15	M6	40	20	M6	519.00
PZ2DG14A336D	14.45	Taper	112	35	15	M6	40	20	M6	519.00
PZ2DG17A336D	16.95	Taper	116	35	15	M6	40	20	M6	519.00
PZ2DG20A336D	20.10	Taper	121	35	15	M6	40	20	M6	519.00
PZ2DG25A336D	25.75	Taper	130	35	15	M6	40	20	M6	541.00

For Left Hand Rotation, Change D to S.

PZ2DG

Deutz Style

50mm Spigot

Splined 9T DIN

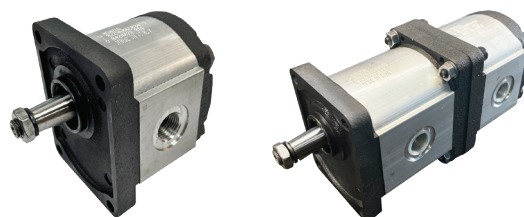
Part Number	cc/rev	Shaft	Length mm	Press Port			Suction Port			List
RH Rotation				C	D	E	C	D	E	
PZ2DG04B336D	4.40	9T Spline	88	35	15	M6	40	20	M6	547.00
PZ2DG06B336D	6.28	9T Spline	91	35	15	M6	40	20	M6	547.00
PZ2DG08B336D	8.16	9T Spline	94	35	15	M6	40	20	M6	547.00
PZ2DG11B336D	11.30	9T Spline	107	35	15	M6	40	20	M6	571.00
PZ2DG14B336D	14.45	9T Spline	112	35	15	M6	40	20	M6	571.00
PZ2DG17B336D	16.95	9T Spline	116	35	15	M6	40	20	M6	571.00
PZ2DG20B336D	20.10	9T Spline	121	35	15	M6	40	20	M6	571.00
PZ2DG25B336D	25.75	9T Spline	130	35	15	M6	40	20	M6	593.00

For Left Hand Rotation, Change D to S.

Group 2 Multiple Pumps

BSPP Threaded Ports

Connecting Kits Supplied with Multiple Pumps



Group 2 Front Pumps

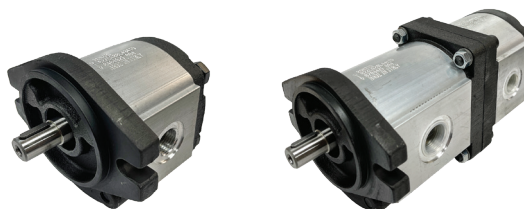
1:8 Taper Shaft

Part Number	cc/rev	Porting		Dimension		List
		Pressure	Suction	A	B	
PZ2AG04C034TD	4.40	1/2" BSPP	1/2" BSPP	89	44.5	455.00
PZ2AG06C034TD	6.28	1/2" BSPP	1/2" BSPP	92	46	455.00
PZ2AG08C034TD	8.16	1/2" BSPP	1/2" BSPP	95	47.5	455.00
PZ2AG11C034TD	11.30	1/2" BSPP	1/2" BSPP	108	54	479.00
PZ2AG14C035TD	14.45	1/2" BSPP	3/4" BSPP	113	56.5	479.00
PZ2AG17C035TD	16.95	1/2" BSPP	3/4" BSPP	117	58.5	479.00
PZ2AG20C035TD	20.10	1/2" BSPP	3/4" BSPP	122	61	479.00
PZ2AG25C035TD	25.75	1/2" BSPP	3/4" BSPP	131	65.5	500.00
PZ2AG31C035TD	31.40	1/2" BSPP	3/4" BSPP	140	70	528.00

For Left Hand Rotation, Change D to S.

SAE A Front Pumps

2 Bolt Mount
BSPP Threaded Ports
5/8" Keyed Shaft



Part Number	cc/rev	Threaded Porting		Dimension		List
5/8" Keyed Shaft		Pressure	Suction	A	B	
PZ2CG04L4034TD	4.40	1/2" BSPP	1/2" BSPP	89	44.5	491.00
PZ2CG06L4034TD	6.28	1/2" BSPP	1/2" BSPP	92	46	491.00
PZ2CG08L4034TD	8.16	1/2" BSPP	1/2" BSPP	95	47.5	491.00
PZ2CG11L4034TD	11.30	1/2" BSPP	1/2" BSPP	108	54	517.00
PZ2CG14L4041TD	14.45	3/4" BSPP	3/4" BSPP	113	56.5	517.00
PZ2CG17L4041TD	16.95	3/4" BSPP	3/4" BSPP	117	58.5	517.00
PZ2CG20L4041TD	20.10	3/4" BSPP	3/4" BSPP	122	61	517.00
PZ2CG25L4041TD	25.75	3/4" BSPP	3/4" BSPP	131	65.5	542.00
PZ2CG31L4041TD	31.40	3/4" BSPP	3/4" BSPP	140	70	571.00

For Left Hand Rotation, Change D to S.

Group 2 Specifications on page 33



SAE A Front Pumps

2 Bolt Mount

BSPP Threaded Ports

9T SAE A Spline Shaft



Part Number	cc/rev	Threaded Porting		Dimension		List
9T SAE A Splined Shaft		Pressure	Suction	A	B	
PZ2CG04S4034TD	4.40	1/2" BSPP	1/2" BSPP	89	44.5	491.00
PZ2CG06S4034TD	6.28	1/2" BSPP	1/2" BSPP	92	46	491.00
PZ2CG08S4034TD	8.16	1/2" BSPP	1/2" BSPP	95	47.5	491.00
PZ2CG11S4034TD	11.30	1/2" BSPP	1/2" BSPP	108	54	517.00
PZ2CG14S4041TD	14.45	3/4" BSPP	3/4" BSPP	113	56.5	517.00
PZ2CG17S4041TD	16.95	3/4" BSPP	3/4" BSPP	117	58.5	517.00
PZ2CG20S4041TD	20.10	3/4" BSPP	3/4" BSPP	122	61	517.00
PZ2CG25S4041TD	25.75	3/4" BSPP	3/4" BSPP	131	65.5	542.00
PZ2CG31S4041TD	31.40	3/4" BSPP	3/4" BSPP	140	70	571.00

For Left Hand Rotation, Change D to S.



Intermediate Pumps

Part Number	cc/rev	Porting		Dim L	List
		Pressure	Suction		
PZ2AG04O034ID	4.40	1/2" BSPP	1/2" BSPP	51	515.00
PZ2AG06O034ID	6.28	1/2" BSPP	1/2" BSPP	54	515.00
PZ2AG08O034ID	8.16	1/2" BSPP	1/2" BSPP	57	515.00
PZ2AG11O034ID	11.30	1/2" BSPP	1/2" BSPP	70	536.00
PZ2AG14O035ID	14.45	1/2" BSPP	3/4" BSPP	75	536.00
PZ2AG17O035ID	16.95	1/2" BSPP	3/4" BSPP	79	536.00
PZ2AG20O035ID	20.10	1/2" BSPP	3/4" BSPP	84	536.00
PZ2AG25O035ID	25.75	1/2" BSPP	3/4" BSPP	93	559.00
PZ2AG31O035ID	31.40	1/2" BSPP	3/4" BSPP	102	588.00

Maximum torque loading must conform to the limitations of splined shaft.

Max torque is 100Nm.

For Left Hand Rotation, Change D to S.



Rear Pumps

Part Number	cc/rev	Porting		Dim L	List
		Pressure	Suction		
PZ2AG04O034ID	4.40	1/2" BSPP	1/2" BSPP	51	515.00
PZ2AG06O034ID	6.28	1/2" BSPP	1/2" BSPP	54	515.00
PZ2AG08O034ID	8.16	1/2" BSPP	1/2" BSPP	57	515.00
PZ2AG11O034ID	11.30	1/2" BSPP	1/2" BSPP	70	536.00
PZ2AG14O035ID	14.45	1/2" BSPP	3/4" BSPP	75	536.00
PZ2AG17O035ID	16.95	1/2" BSPP	3/4" BSPP	79	536.00
PZ2AG20O035ID	20.10	1/2" BSPP	3/4" BSPP	84	536.00
PZ2AG25O035ID	25.75	1/2" BSPP	3/4" BSPP	93	559.00
PZ2AG31O035ID	31.40	1/2" BSPP	3/4" BSPP	102	588.00

For Left Hand Rotation, change D to S.



Group 1 Rear Pumps

Part Number	cc/rev	Porting		List
		Pressure	Suction	+Adaptor
PZ1A0110001PD	1.1cc	3/8" BSPP	3/8" BSPP	355.00
PZ1A0160001PD	1.6cc	3/8" BSPP	3/8" BSPP	355.00
PZ1A0210001PD	2.1cc	3/8" BSPP	3/8" BSPP	355.00
PZ1A0260001PD	2.6cc	3/8" BSPP	3/8" BSPP	355.00
PZ1A0320001PD	3.2cc	3/8" BSPP	3/8" BSPP	355.00
PZ1A0370001PD	3.7cc	3/8" BSPP	3/8" BSPP	355.00
PZ1A0420001PD	4.2cc	3/8" BSPP	3/8" BSPP	355.00
PZ1A0480001PD	4.8cc	3/8" BSPP	3/8" BSPP	360.00
PZ1A0550001PD	5.5cc	3/8" BSPP	3/8" BSPP	360.00
PZ1A0620001PD	6.2cc	3/8" BSPP	3/8" BSPP	360.00
PZ1A0780001PD	7.8cc	3/8" BSPP	3/8" BSPP	360.00
PZ1A0880001PD	8.8cc	3/8" BSPP	3/8" BSPP	360.00

For Left Hand Rotation, Change D to S.

Assembly Kits Group 2 to Group 1

Part Number	Description	Pump Type +	Pump Type	List
K2000003	Group 2 to Group 1	PZ2A 31, 25, 17, 14, 11	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31	216.00
K2000004	Group 2 to Group 1	PZ2A 8, 6, 4	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31	216.00

Maximum torque loading must conform to the limitations of splined shaft. Max torque is 27Nm.

Group 2 Specifications on page 33



Seal Kits

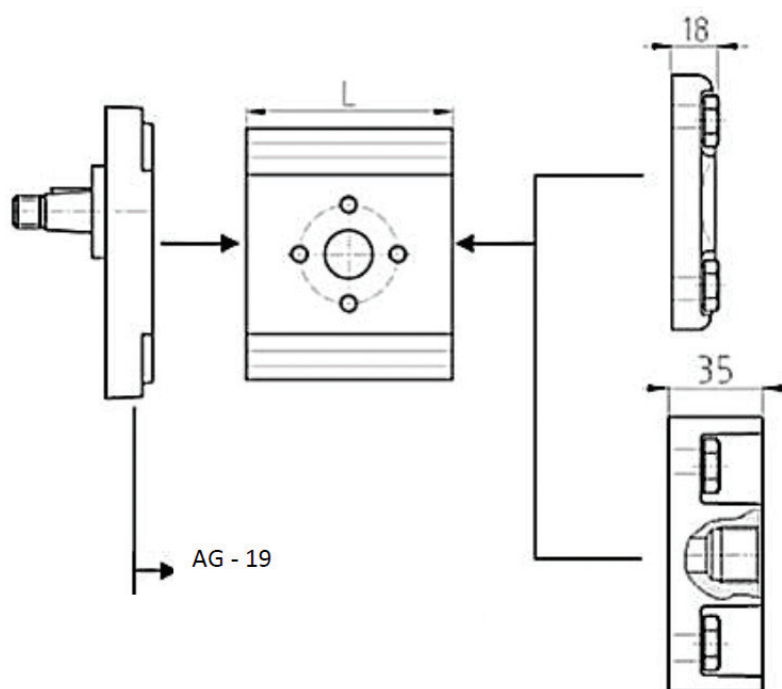
Part Number	Description	List
PZ2A-SK	Group 2 Body Seal Kit	59.00
PZ2A-SS	Group 2 Shaft Seal	38.00

Port Adaptors

EBP-2	35mm PCD Port Adaptor 1/2" BSPP	39.00
EBP-4	40mm PCD Port Adaptor 3/4" BSPP	52.00

Assembly Kits

Part Number	Description	Pump Type +	Pump Type	List
K2000000	Group 2 to Group 2	PZ2A 31, 25, 20, 17, 14, 11	PZ2A 31, 25, 20, 17, 14, 11	65.00
K2000001	Group 2 to Group 2	PZ2A 31, 25, 17, 14, 11	PZ2A 8, 6, 4	65.00
K2000002	Group 2 to Group 2	PZ2A 8, 6, 4	PZ2A 8, 6, 2	65.00
K2000003	Group 2 to Group 1	PZ2A 31, 25, 17, 14, 11	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31	216.00
K2000004	Group 2 to Group 1	PZ2A 8, 6, 4	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31	216.00



Type	L
04	51
06	54
08	57
11	70
14	75
17	79
20	84
25	93
31	102



PZ2 Model Identification Code

PZ2-AG	04	C	0	34	D
Model PZ2-AG Italian Style PZ2-BG German Style PZ2-CG SAE Style PZ2-DG Deutz/IHC Style PZ2-EG Rear/Tang Drive	Capacity cc/rev 04 06 08 11 14 17 20 25 31	Shaft A Taper 1:5 B Splined 9T DIN C Taper 1:8 E Parallel 15mm F Tang L Parallel 5/8" S Splined 9T SAE A	Model 0 = PZ2-AG 1 = PZ2-BG 2 = PZ2-EG 3 = PZ2-DG 4 = PZ2-CG	Ports 32 - Flange Type - 4/6/8/11 33 - Flange Type - 14/17/20/25/31 34 - BSPP Type - 4/6/8/11 35 - BSPP Type - 14/17/20/25/31 36 - Flange All 41 - BSPP Type - 14/17/20/25/31	Rotation D = Right Hand S = Left Hand

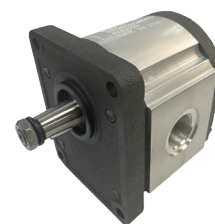
Hydraulic Fluids	Mineral Oil (DIN 51524) For use with fire resistant fluids like water glycol, water - emulsion and phosphate esters
Inlet Pressure	0.7 - 3 Bar (Absolute)
Oil Speed on Suction Line	0.5 - 1.5 m/s
Oil Speed on Pressure Line	6 - 10 m/s
Oil Temperature	-10 Deg C - 80 Deg C
Oil Viscosity	20 - 120 mm ² /s (Cst)
Max Starting Viscosity	700 mm ² /s (Cst)

Type		04	06	08	11	14	17	20	25	31
Capacity	Cm ³ /rev	4.4	6.28	8.16	11.3	14.45	16.95	20.1	25.75	31.4
P1 Max Working Pressure	Bar	300	300	300	300	300	250	210	160	130
P2 Max Peak Pressure	Bar	360	360	360	360	330	310	270	210	150
Max Speed for P1 Pressure	Rpm	4500	4500	3700	3300	2700	2500	2500	2500	2200
Max Speed without Load	Rpm	5500	5500	4700	4000	3300	3000	3000	3000	2700
Min Speed for P1 Pressure	Rpm	1000	700	550	450	400	350	300	250	200

With Bi-directional pumps or motors, pressure is reduced by 15% and the case drain must be fitted.

Shaft Load Capacity

Shaft Code	Shaft Description	Max Torque (Nm)	IMPORTANT When applying a multiple pump, the drive shaft load is the sum of torque of each section. This value can not exceed the value in the table.
A	1:5 Taper	110	
B	Din 5482 B17 x 14 Spline	110	
C	1:8 Taper	150	
E	15mm Str Keyed	75	
F	Tang	75	
L	5/8" Str Keyed	75	
M	Tang	75	
N	19mm Str Keyed	110	
S	SAE A 9T Spline	75	

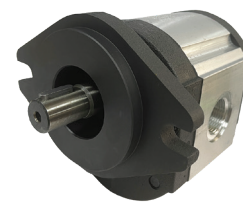
**PZ3AG Group 3**

BSPP Threaded Ports

1:8 Taper Shaft

Part Number	cc/rev	Max Working Pressure bar	Ports	List
RH Rotation				
PZ3AG25C064TD	25	280	1" BSPP	1064.00
PZ3AG30C064TD	30	280	1" BSPP	1064.00
PZ3AG35C064TD	35	280	1" BSPP	1064.00
PZ3AG40C064TD	40	250	1" BSPP	1097.00
PZ3AG45C064TD	45	250	1" BSPP	1097.00
PZ3AG55C065TD	55	230	1 1/4" Suction 1" BSPP Pressure	1097.00
PZ3AG64C065TD	64	200	1 1/4" Suction 1" BSPP Pressure	1146.00
PZ3AG80C067TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure	1247.00

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.

**PZ3BG SAE B**

BSPP Threaded Ports

7/8" Straight Keyed Shaft

Part Number	cc/rev	Max Working Pressure bar	Ports	List
RH Rotation				
PZ3BG25L364TD	25	280	1" BSPP	1092.00
PZ3BG30L364TD	30	280	1" BSPP	1092.00
PZ3BG35L364TD	35	280	1" BSPP	1092.00
PZ3BG40L364TD	40	250	1" BSPP	1126.00
PZ3BG45L364TD	45	250	1" BSPP	1126.00
PZ3BG55L365TD	55	230	1 1/4" Suction 1" BSPP Pressure	1126.00
PZ3BG64L365TD	64	200	1 1/4" Suction 1" BSPP Pressure	1173.00
PZ3BG80L367TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure	1274.00

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.

**PZ3BG SAE B**

BSPP Threaded Ports

7/8" 13T Splined Shaft

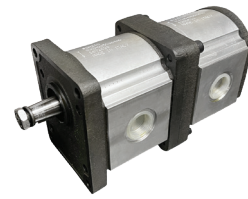
Part Number	cc/rev	Max Working Pressure bar	Ports	List
RH Rotation				
PZ3BG20B364TD	20	280	1" BSPP	1092.00
PZ3BG25B364TD	25	280	1" BSPP	1092.00
PZ3BG30B364TD	30	280	1" BSPP	1092.00
PZ3BG35B364TD	35	280	1" BSPP	1092.00
PZ3BG40B364TD	40	250	1" BSPP	1126.00
PZ3BG45B364TD	45	250	1" BSPP	1126.00
PZ3BG55B365TD	55	230	1 1/4" Suction 1" BSPP Pressure	1126.00
PZ3BG64B365TD	64	200	1 1/4" Suction 1" BSPP Pressure	1173.00
PZ3BG80B367TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure	1274.00

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.



Group 3 Multiple Pumps

BSPP Threaded Ports
Connecting Kits Supplied with Multiple Pumps



PZ3AG Group 3 Front Pump 1:8 Taper Shaft

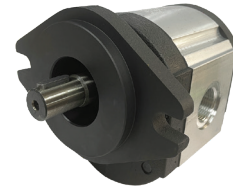
Part Number	cc/rev	Max Working Pressure bar	Ports	List
RH Rotation				
PZ3AG25C064TD	25	280	1" BSPP	1064.00
PZ3AG30C064TD	30	280	1" BSPP	1064.00
PZ3AG35C064TD	35	280	1" BSPP	1064.00
PZ3AG40C064TD	40	250	1" BSPP	1097.00
PZ3AG45C064TD	45	250	1" BSPP	1097.00
PZ3AG55C065TD	55	230	1 1/4" Suction 1" BSPP Pressure	1097.00
PZ3AG64C065TD	64	200	1 1/4" Suction 1" BSPP Pressure	1146.00
PZ3AG80C067TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure	1247.00

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.

PZ3BG SAE B Front Pump

SAE B 2 Bolt Mount

BSPP Threaded Ports

7/8" Straight Keyed Shaft

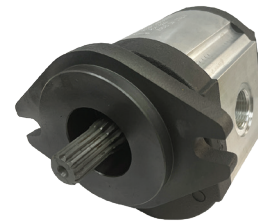
Part Number	cc/rev	Max Working Pressure bar	Ports	List
RH Rotation				
PZ3BG25L364TD	25	280	1" BSPP	1092.00
PZ3BG30L364TD	30	280	1" BSPP	1092.00
PZ3BG35L364TD	35	280	1" BSPP	1092.00
PZ3BG40L364TD	40	250	1" BSPP	1126.00
PZ3BG45L364TD	45	250	1" BSPP	1126.00
PZ3BG55L365TD	55	230	1 1/4" Suction 1" BSPP Pressure	1126.00
PZ3BG64L365TD	64	200	1 1/4" Suction 1" BSPP Pressure	1173.00
PZ3BG80L367TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure	1274.00

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.

PZ3BG SAE B Front Pump

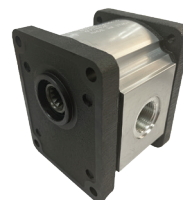
SAE B 2 Bolt Mount

BSPP Threaded Ports

7/8" 13T Splined Shaft

Part Number	cc/rev	Max Working Pressure bar	Ports	List
RH Rotation				
PZ3BG20B364TD	20	280	1" BSPP	1092.00
PZ3BG25B364TD	25	280	1" BSPP	1092.00
PZ3BG30B364TD	30	280	1" BSPP	1092.00
PZ3BG35B364TD	35	280	1" BSPP	1092.00
PZ3BG40B364TD	40	250	1" BSPP	1126.00
PZ3BG45B364TD	45	250	1" BSPP	1126.00
PZ3BG55B365TD	55	230	1 1/4" Suction 1" BSPP Pressure	1126.00
PZ3BG64B365TD	64	200	1 1/4" Suction 1" BSPP Pressure	1173.00
PZ3BG80B367TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure	1274.00

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.



Intermediate Pumps

Part Number	cc/rev	Ports		List
RH Rotation				
PZ3AG250064ID	25	1" BSPP		1169.00
PZ3AG300064ID	30	1" BSPP		1169.00
PZ3AG350064ID	35	1" BSPP		1169.00
PZ3AG400064ID	40	1" BSPP		1201.00
PZ3AG450064ID	45	1" BSPP		1201.00
PZ3AG550065ID	55	1 1/4" BSPP	1" BSPP	1201.00
PZ3AG640065ID	64	1 1/4" BSPP	1" BSPP	1249.00
PZ3AG800065ID	80	1 1/2" BSPP	1 1/4" BSPP	1350.00



Rear Pumps

Part Number	cc/rev	Ports		List
RH Rotation				
PZ3AG250064PD	25	1" BSPP		1169.00
PZ3AG300064PD	30	1" BSPP		1169.00
PZ3AG350064PD	35	1" BSPP		1169.00
PZ3AG400064PD	40	1" BSPP		1201.00
PZ3AG450064PD	45	1" BSPP		1201.00
PZ3AG550065PD	55	1 1/4" BSPP	1" BSPP	1201.00
PZ3AG640065PD	64	1 1/4" BSPP	1" BSPP	1249.00
PZ3AG800065PD	80	1 1/2" BSPP	1 1/4" BSPP	1350.00

Seal Kits

Part Number	Description	List
PZ3A-SK	Group 3 Body Seal Kit	51.00
PZ2A-SS	Group 3 Shaft Seal	57.00

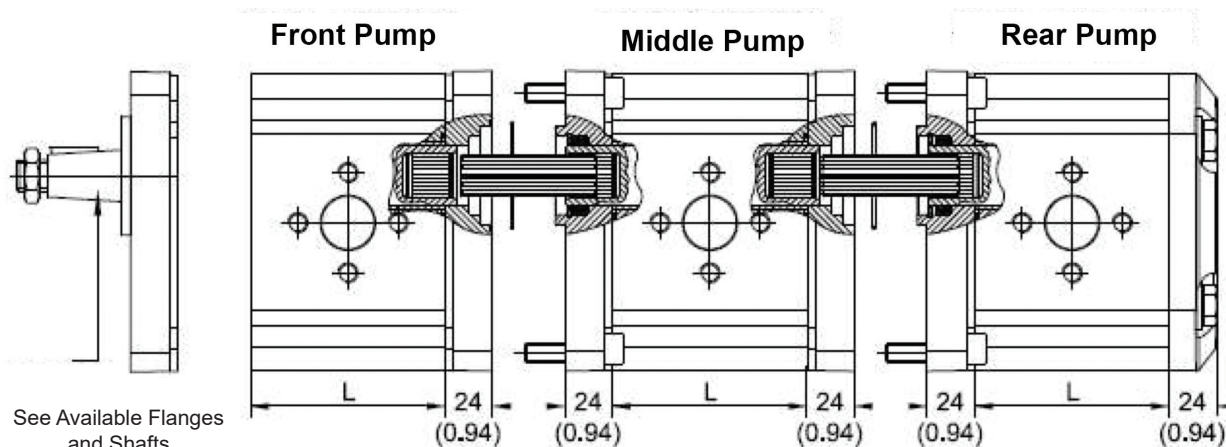
Assembly Kits

Part Number	Description		List
K3000028	Group 3 Cast to Alloy	PZ3 Cast to Alloy	277.00
K3000029	Group 3 to Group 1	PZ3 to PZ1 Alloy	164.00
K3000030	Group 3 to Group 2	PZ3 to PZ2 Alloy	147.00
K3000034	Group 3 to Group 3	PZ3 to PZ3 Alloy	105.00

PZ3 Model Identification Code

PZ3-AG	25	C	0	64	D
Model PZ3-AG Italian Style PZ3-BG SAE B		Shaft B Splined 7/8" 13T C Taper 1:8 L Straight Keyed 7/8"	Model 0 European Mtg 3 SAE B Mtg		Rotation D = Right Hand S = Left Hand
Capacity cc/rev 20 25 30 35 40 45 55 64 80					Ports 64 BSPP Ports

Type		20	25	30	35	40	45	55	64	80
Capacity	Cm ³	19.9	24.9	29.9	34.3	40.5	45.2	54.5	63.9	78.7
P1 Max Working Pressure	Bar	280	280	280	280	250	250	230	200	170
P2 Max Peak Pressure	Bar	310	310	310	310	280	280	250	220	190
Min Speed for P1 Pressure	Rpm	450	450	350	350	350	350	350	350	350
Max Speed	Rpm	3000	3000	3000	3000	2700	2700	2200	2000	1800
Nm		26.9	33.7	40.4	46.4	54.8	61.1	73.7	86.4	106.5
Kg		10.6	10.8	11	11.2	11.4	11.5	11.9	12.2	12.7
L	mm	77	80	83.2	86	90	93	99	105	114.6
Oil Viscosity @ 50°C	2.5 - 6.5°E									





Assembly Kits

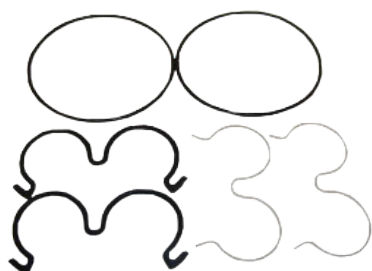
Part Number	Description	Pump Type +	Pump Type	List
K1000000	Group 1 to Group 1	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31	38.00
K2000000	Group 2 to Group 2	PZ2A 31, 25, 20, 17, 14, 11	PZ2A 31, 25, 20, 17, 14, 11	65.00
K2000001	Group 2 to Group 2	PZ2A 31, 25, 17, 14, 11	PZ2A 8, 6, 4	65.00
K2000002	Group 2 to Group 2	PZ2A 8, 6, 4	PZ2A 8, 6, 2	65.00
K2000003	Group 2 to Group 1	PZ2A 31, 25, 17, 14, 11	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31	216.00
K2000004	Group 2 to Group 1	PZ2A 8, 6, 4	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31	216.00
K3000000	Group 3 to Group 3	PW3 Cast	PW3	277.00
K3000001	Group 3 to Group 2	PW3 Cast	PZ2A 31, 25, 17, 14, 11	277.00
K3000002	Group 3 to Group 2	PW3 Cast	PZ2A 8, 6, 4	277.00

K3000028	Group 3 Cast to Alloy	PZ3 Cast to Alloy		277.00
K3000029	Group 3 to Group 1	PZ3 to PZ1 Alloy		164.00
K3000030	Group 3 to Group 2	PZ3 to PZ2 Alloy		147.00
K3000034	Group 3 to Group 3	PZ3 to PZ3 Alloy		105.00



Parts and Accessories

Part Number	Description	List
Port Adaptors		
EGP-2	30mm PCD Port Adaptor 1/2" BSPP	38.00
EGP-4	40mm PCD Port Adaptor 3/4" BSPP	46.00
EGP-5	51mm PCD Port Adaptor 3/4" BSPP	75.00
EGP-7	56mm PCD Port Adaptor 3/4" BSPP	101.00
EGP-8	56mm PCD Port Adaptor 1" BSPP	104.00
EBP-2	35mm PCD Port Adaptor 1/2" BSPP	39.00
EBP-4	40mm PCD Port Adaptor 3/4" BSPP	52.00
Keys		
PZ1A-C-KEY	Group 1 Key	8.00
PZ2A-C-KEY	Group 2 Key	8.00
PZ3-C-KEY	Group 3 Key	10.00
Seal Kits		
PZ1A-SK	Group 1 Seal Kit	51.00
PZ2A-SK	Group 2 Seal Kit	59.00
PZ3A-SK	Group 3 Seal Kit	51.00
PW3-SK	Group 3 Seal Kit	71.00
MZ2A-SK	Group 2 Motor Seal Kit	83.00
MW3-SK	Group 3 Motor Seal Kit	77.00
NF-SK	NF Series Pump Seal Kit	116.00
Shaft Seals		
PZ1A-SS	Group 1 Shaft Seal	32.00
PZ2A-SS	Group 2 Shaft Seal	38.00
PZAA-I-SS	Group 2 Intermediate Shaft Seal	38.00
PZ3A-SS	Group 3 Shaft Seal	57.00
PZ3AI-SS	Group 3 Intermediate Shaft Seal	57.00
PW3-SS	Group 3 Shaft Seal	46.00
MZ2A-SS	Group 2 Motor Shaft Seal	46.00
MW3-SS	Group 3 Motor Shaft Seal	51.00
Rear Covers		
PZ1A-RC	Group 1 Rear Cover with Seals	59.00
PZ2AG-RC	Group 2 Rear Cover	74.00





Group 3 Cast Iron

Flanged Ports
1:8 Taper Shaft



Part Number	cc/rev	Porting						List
		Pressure			Suction			
		E	F	G	E	F	G	
PW325DAC	24.9	40	20	M8	51	28	M10	1052.00
PW335DAC	34.3	40	20	M8	51	28	M10	1052.00
PW345DAC	45.2	40	20	M8	51	28	M10	1105.00
PW355DAC	54.5	40	20	M8	51	28	M10	1118.00
PW364DAC	63.9	51	28	M10	62	33	M12	1194.00
PW380DAC	78.7	51	28	M10	62	33	M12	1279.00

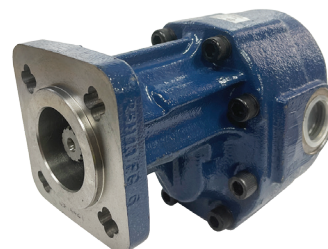
For Left Hand Rotation, Change D to S.

Specifications

Type		25	35	45	55	64	80
Capacity	cc/rev	24.9	34.3	45.2	54.5	63.9	78.7
Max. Working Pressure	bar	300	280	250	230	200	170
Peak Pressure	bar	250	330	300	270	240	210
Max Speed for P1 Pressure	r.p.m	3000	2500	2200	2000	2000	1800
Max. Speed Without Load	r.p.m	3500	3000	2800	2500	2500	2200
Min. Speed for P1 (unidirect)	r.p.m	450	350	350	300	250	200

NFA Chelsea Mount

13T 7/8" Splined Shaft
Optional Rear Suction Port LH



Part Number		cc/rev	Porting		List
RH Rotation	Stamped		Pressure	Suction	
NFA35DPHS	032NF035DOS	34.3	1 1/16 UNO	1 5/16 UNO	1185.00
NFA45DPHS	032NF045DOS	45.2	1 1/16 UNO	1 5/8 UNO	1225.00
NFA55DPHS	032NF055DOS	54.5	1 1/16 UNO	1 5/8 UNO	1251.00
NFA64DPHS	032NF064DOS	63.9	1 5/16 UNO	1 5/8 UNO	1318.00
NFA80DPHS	032NF080DOS	78.7	1 5/8 UNO	1 7/8 UNO	1399.00



Cast Iron Pumps

SAE B Mount

13T 7/8" Splined Shaft

UNO Threaded Ports

Part Number		cc/rev	Porting		List
RH Rotation	Stamped		Pressure	Suction	
PW315SAEBDAS	030W0015BOD	15.6	7/8 UNO	1 1/16 UNO	1146.00
PW325SAEBDAS	030W0025BOD	24.9	7/8 UNO	1 1/16 UNO	1159.00
PW335SAEBDAS	030W0035BOD	34.3	1 1/16 UNO	1 5/16 UNO	1185.00
PW345SAEBDAS	030W0045BOD	45.2	1 1/16 UNO	1 5/8 UNO	1225.00
PW355SAEBDAS	030W0055BOD	54.5	1 1/16 UNO	1 5/8 UNO	1251.00
PW364SAEBDAS	030W0064BOD	63.9	1 5/16 UNO	1 5/8 UNO	1318.00
PW380SAEBDAS	030W0080BOD	78.7	1 5/8 UNO	1 5/8 UNO	1399.00

Cast Iron Pumps

SAE B Mount

15T 1" Splined Shaft

UNO Threaded Ports

Part Number		cc/rev	Porting		List
RH Rotation	Stamped		Pressure	Suction	
PW315SAEBBDAS	030WLB15S374XDON	15.6	7/8 UNO	1 1/16 UNO	1146.00
PW325SAEBBDAS	030WLB25S374XDON	24.9	7/8 UNO	1 1/16 UNO	1159.00
PW335SAEBBDAS	030WLB35S374XDON	34.3	1 1/16 UNO	1 5/16 UNO	1185.00
PW345SAEBBDAS	030WLB45S374XDON	45.2	1 1/16 UNO	1 5/8 UNO	1225.00
PW355SAEBBDAS	030WLB55S374XDON	54.5	1 1/16 UNO	1 5/8 UNO	1251.00
PW364SAEBBDAS	030WLB64S374XDON	63.9	1 5/16 UNO	1 5/8 UNO	1318.00
PW380SAEBBDAS	030WLB80S374XDON	80	1 7/8 UNO	1 5/8 UNO	1399.00

Specifications

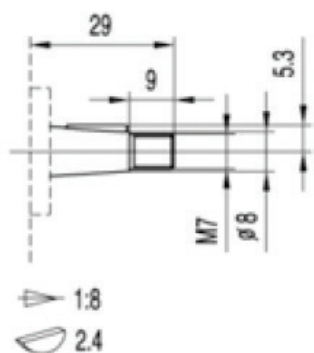
Type		15	25	35	45	55	64	80
Capacity	cc/rev	15.6	24.9	34.3	45.2	54.5	63.9	78.7
Max. Working Pressure	bar	300	300	280	250	230	200	170
Peak Pressure	bar	350	350	330	300	270	240	210
Max. Speed for P1 Pressure	r.p.m	3000	3000	2500	2200	2000	2000	1800
Max. Speed Without Load	r.p.m	3500	3500	3000	2800	2500	2500	2200
Min. Speed for P1 (Unidirect)	r.p.m	450	450	350	350	300	250	200

**KAP Group 1**

3/8" BSPP Threaded Ports

1:8 Taper Shaft

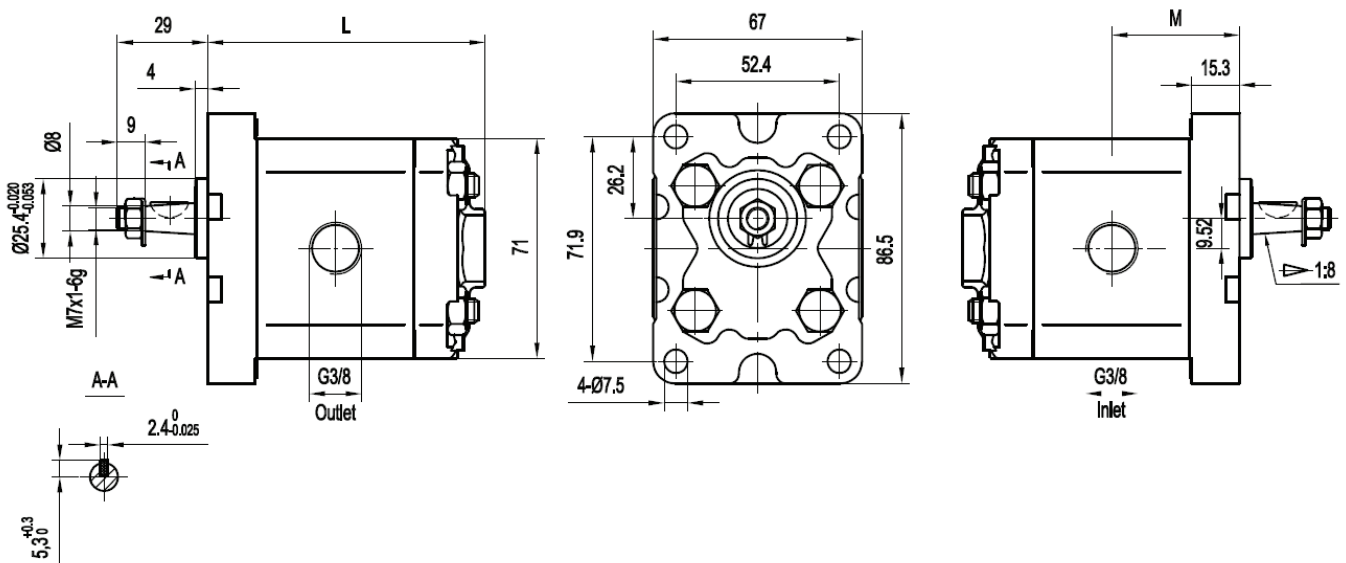
Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	List
		P1	P2	P3			
KAP1E0D0.8Z1L2	0.8	200	225	250	6000	1000	260.00
KAP1E0D1.1Z1L2	1.1	200	225	250	6000	1000	260.00
KAP1E0D1.6Z1L2	1.6	200	225	250	6000	1000	260.00
KAP1E0D2.1Z1L2	2.1	200	225	250	6000	1000	260.00
KAP1E0D2.7Z1L2	2.7	200	225	250	6000	1000	260.00
KAP1E0D3.2Z1L2	3.2	200	225	250	5000	800	260.00
KAP1E0D3.7Z1L2	3.7	200	225	250	4500	800	260.00
KAP1E0D4.2Z1L2	4.2	200	225	250	4000	800	260.00
KAP1E0D4.8Z1L2	4.8	200	225	250	3500	800	260.00
KAP1E0D5.8Z5L2	5.8	160	180	200	3000	800	260.00
KAP1E0D7.0Z1L2	7.0	160	180	200	2500	800	260.00
KAP1E0D8.0Z1L2	8.0	160	180	200	2100	600	260.00

**Z1****1:8 Taper Shaft**

Group 1 Gear Pump Ordering Code

KA	P	1	E0	D	1.1	Z1	L2
Series: KA	Pump	Group 1	Front Cover	Rotation: D - Clockwise S - Anti-Clockwise	Displacement cc/rev: 0.8 1.1 1.6 2.1 2.7 3.2 3.7 4.2 4.8 5.8 7.0 8.0	Shaft: 1:8 Taper	Ports: L2 - 3/8" BSPP

Type	L (mm)	M (mm)
KAP1E0D0.8	77	33.8
KAP1E0D1.1	77.5	34
KAP1E0D1.6	79.5	35
KAP1E0D2.1	81.5	36
KAP1E0D2.7	83.5	37
KAP1E0D3.2	85.5	38
KAP1E0D3.7	39	87.5
KAP1E0D4.2	40	89.5
KAP1E0D4.8	41	91.5
KAP1E0D5.8	43	95.5
KAP1E0D7.0	45	99.5
KAP1E0D8.0	47	103.5

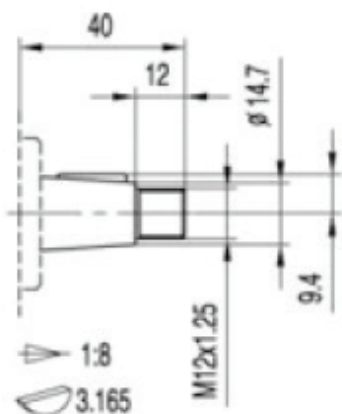


**KGP2E2 Group 2**

BSPP Threaded Ports

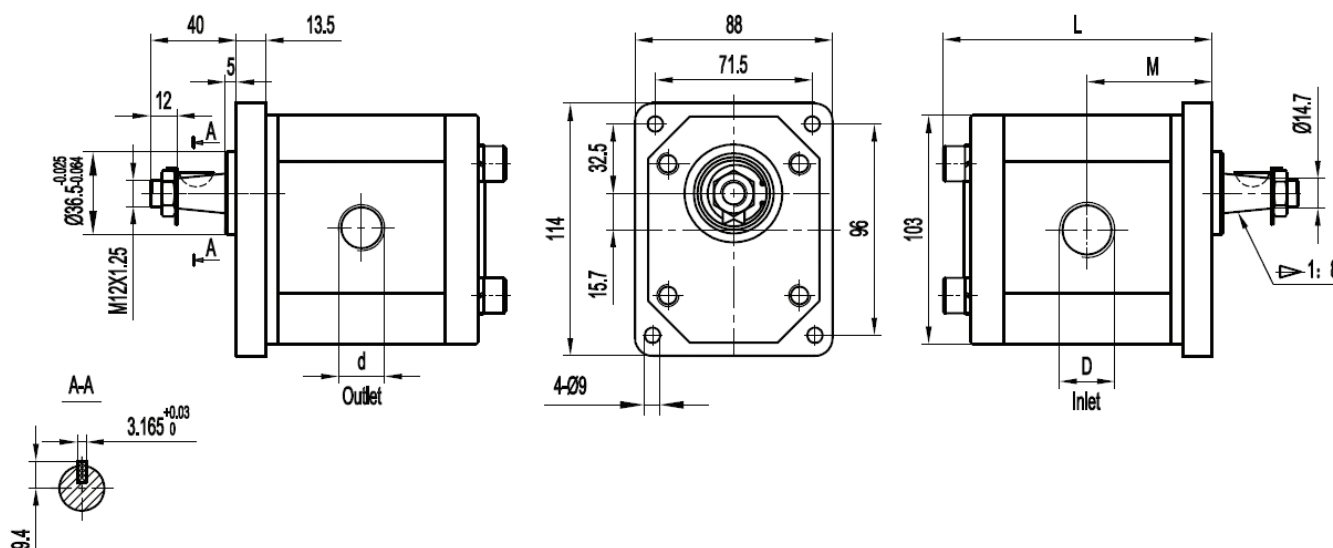
1:8 Taper Shaft

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	List
		P1	P2	P3			
KGP2E2D4Z5L4	4	200	225	250	3000	800	350.00
KGP2E2D6Z5L4	6	200	225	250	3000	800	350.00
KGP2E2D8Z5L4	8	200	225	250	3000	800	350.00
KGP2E2D10Z5L5	10	200	225	250	3000	600	TBA
KGP2E2D12Z5L5	12	200	225	250	3000	600	350.00
KGP2E2D14Z5L5	14	200	225	250	3000	600	350.00
KGP2E2D16Z5L5	16	200	225	250	3000	600	350.00
KGP2E2D18Z5L5	18	200	225	250	3000	600	TBA
KGP2E2D20Z5L5	20	200	225	250	3000	600	350.00
KGP2E2D22Z5L5	22	200	225	250	3000	600	350.00
KGP2E2D25Z5L5	25	200	225	250	3000	600	350.00
KGP2E2D28Z5L5	28	160	170	180	2500	500	TBA
KGP2E2D30Z5L5	30	150	160	170	2500	500	TBA

**Z5****1:8 Taper Shaft**

Group 2 Gear Pump Ordering Code

KG	P	2	E2	D	4	J5	L5
Series: KG = Front and end cover material is cast iron.	Pump	Group 2	Front Cover	Rotation: D - Clockwise S - Anti-Clockwise	Displacement cc/rev: 4 6 8 10 12 14 16 18 20 22 25 28 30	Shaft: J5 = 1:8 Taper	Ports: L4 = 1/2" BSPP L5 = Inlet 3/4" BSPP Outlet 1/2" BSPP L6 = Inlet 3/4" BSPP Outlet 3/4" BSPP



Type	M (mm)	L (mm)	B (mm)	D (mm)	b (mm)	d (mm)	C	c
KGP2E2-D-4	44.5	96.8	30	13	30	13	M6	M6
KGP2E2-D-6	46	100	30	13			M6	
KGP2E2-D-8	47.7	103.3	30	13			M6	
KGP2E2-D-10	49.3	106.6	40	20			M8	
KGP2E2-D-12	51	109.9	40	20			M8	
KGP2E2-D-14	52.6	113	40	20			M8	
KGP2E2-D-16	54.3	116.5	40	20			M8	
KGP2E2-D-18	55.9	119.7	40	20			M8	
KGP2E2-D-20	57.5	123	40	20			M8	
KGP2E2-D-22	59.2	126.4	40	20			M8	
KGP2E2-D-25	61.6	131	40	22			M8	
KGP2E2-D-28	64.1	136	40	22			M8	
KGP2E2-D-30	65.8	140	40	22			M8	

**KGP2A2 Group 2**

SAE A Mount

BSPP Threaded Ports

5/8" Keyed Shaft

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	List
		P1	P2	P3			
KGP2A2D4P12L4	4	200	225	250	3000	800	350.00
KGP2A2D6P12L4	6	200	225	250	3000	800	350.00
KGP2A2D8P12L5	8	200	225	250	3000	800	350.00
KGP2A2D10P12L5	10	200	225	250	3000	600	TBA
KGP2A2D12P12L5	12	200	225	250	3000	600	350.00
KGP2A2D14P12L6	14	200	225	250	3000	600	350.00
KGP2A2D16P12L6	16	200	225	250	3000	600	350.00
KGP2A2D18P12L6	18	200	225	250	3000	600	350.00
KGP2A2D20P12L6	20	200	225	250	3000	600	350.00
KGP2A2D22P12L6	22	200	225	250	3000	600	350.00
KGP2A2D25P12L6	25	200	225	250	3000	600	350.00
KGP2A2D28P12L6	28	160	170	180	2500	500	350.00
KGP2A2D30P12L6	30	150	160	170	2500	500	350.00

KGP2A2 Group 2

SAE A Mount

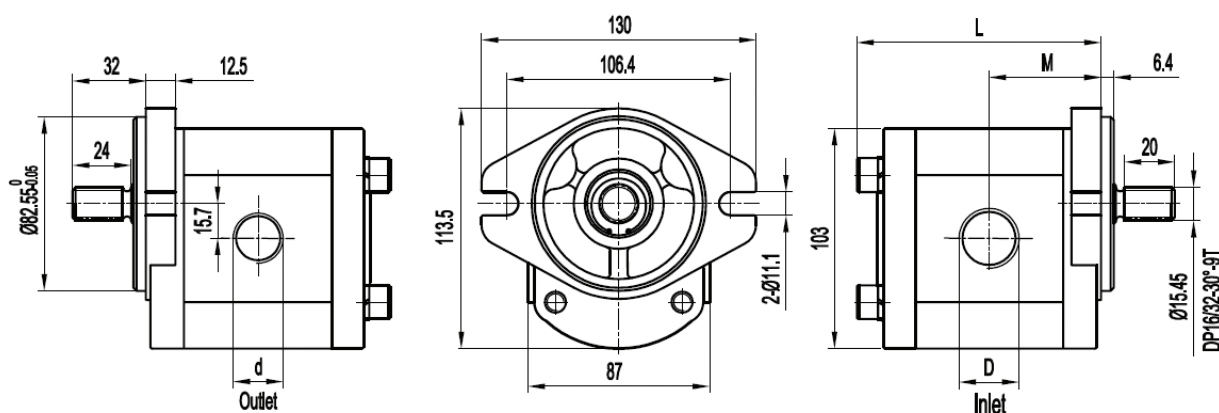
BSPP Threaded Ports

5/8" 9T Splined Shaft

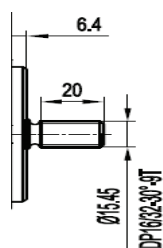
Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	List
		P1	P2	P3			
KGP2A2D4J5L4	4	200	225	250	3000	800	350.00
KGP2A2D6J5L4	6	200	225	250	3000	800	350.00
KGP2A2D8J5L5	8	200	225	250	3000	800	350.00
KGP2A2D10J5L5	10	200	225	250	3000	600	TBA
KGP2A2D12J5L5	12	200	225	250	3000	600	350.00
KGP2A2D14J5L6	14	200	225	250	3000	600	350.00
KGP2A2D16J5L6	16	200	225	250	3000	600	350.00
KGP2A2D18J5L6	18	200	225	250	3000	600	350.00
KGP2A2D20J5L6	20	200	225	250	3000	600	350.00
KGP2A2D22J5L6	22	200	225	250	3000	600	350.00
KGP2A2D25J5L6	25	200	225	250	3000	600	350.00
KGP2A2D28J5L6	28	160	170	180	2500	500	350.00
KGP2A2D30J5L6	30	150	160	170	2500	500	350.00

Group 2 SAE Gear Pump Ordering Code

KG	P	2	A2	D	4	J5	L5
Series: KG = Front and end cover material is cast iron.	Pump	Group 2	Front Cover	Rotation: D - Clockwise S - Anti-Clockwise	Displacement cc/rev: 4 6 8 10 12 14 16 18 20 22 25 28 30	Shaft: J5 = 5/8" 9T Splined P12 = 5/8" Keyed with M6 Screw	Ports: L4 = Inlet 1/2" BSPP Outlet 1/2" BSPP L5 = Inlet 3/4" BSPP Outlet 1/2" BSPP L6 = Inlet 3/4" BSPP Outlet 3/4" BSPP

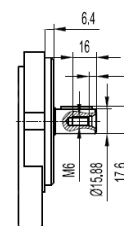


Type	M (mm)	L (mm)	D	d
KGP2A2-D-4	44.5	96.8	1/2	1/2
KGP2A2-D-6	46	100		
KGP2A2-D-8	47.7	103.3		
KGP2A2-D-10	49.3	106.6	3/4	1/2
KGP2A2-D-12	51	105.9		
KGP2A2-D-14	52.6	109.9		
KGP2A2-D-16	54.3	113	3/4	3/4
KGP2A2-D-18	55.9	116.5		
KGP2A2-D-20	57.5	119.7		
KGP2A2-D-22	59.2	123		
KGP2A2-D-25	61.6	131		
KGP2A2-D-28	64.1	136		
KGP2A2-D-30	65.8	140		



J5

5/8" 9T Splined Shaft



P12

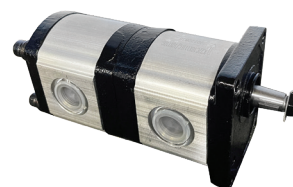
5/8" Keyed Shaft with M6
Screw Thread



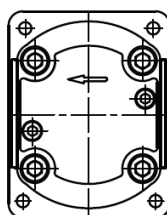
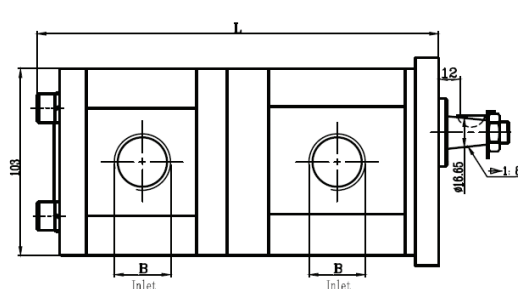
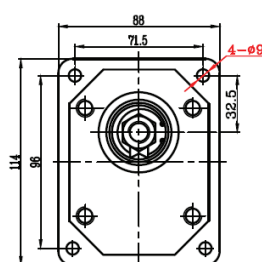
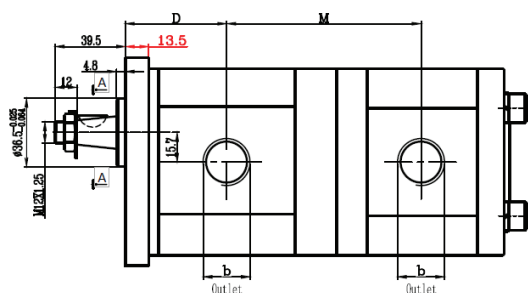
K22 Double Group 2

BSPP Threaded Ports

1:8 Taper Shaft



Part Number	cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	D	M	L	B	b	List
		P1	P2	P3								
K22C4.5X111FG/4.5X110G	4.5	200	225	250	3500	800	44.5	89.1	192	1/2	1/2	780.00
K22C6.3X111FG/6.3X110G	6.3	200	225	250	3500	800	46.1	92.3	199			780.00
K22C8.2X111FG/8.2X110G	8.2	200	225	250	3000	600	47.7	95.5	205			780.00
K22C10X111FG/10X110G	11.3	200	225	250	3000	500	49.3	98.8	212	3/4		780.00
K22C14X111FG/14X110G	14	200	225	250	3000	500	52.6	105.3	225			780.00
K22C16X111FG/16X110G	16	200	225	250	3000	500	54.3	108.7	231			780.00
K22C18X111FG/18X110G	19	200	215	230	3000	500	55.9	111.9	238			780.00
K22C22X111FG/22X110G	22	200	215	230	3000	400	59.2	118.6	251			780.00
K22C25X111FG/25X110G	25	180	200	215	2500	400	61.6	123.4	261			780.00



Group 2 Multiple Pump Ordering Code

K22	C4.5	X110G
Group K20 - Group 2 K22 - Group 2 + Group 2 K222 - Group 2 + Group 2 + Group 2	Capacity cc/rev 4.5 6.3 8.2 10 14 16 18 22 25	Type Front 111G - 1:8 Taper 167G - 5/8" 9T Splined 457G - 5/8" Straight Keyed Middle 156G - Tang Drive Rear 110G - Tang Drive

K20 Front Pump

BSPP Threaded Ports

1:8 Taper Shaft

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d	List
		P1	P2	P3							
K20C4.5X111G	4.5cc	200	225	250	3500	800	44.5	91.1	1/2	1/2	390.00
K20C6.3X111G	6.3cc	200	225	250	3500	800	46.1	94.3			390.00
K20C8.2X111G	8.2cc	200	225	250	3000	600	47.7	97.5			390.00
K20C10X111G	10cc	200	225	250	3000	500	49.3	100.8	3/4		390.00
K20C14X111G	14cc	200	225	250	3000	500	52.6	107.3			390.00
K20C16X111G	16cc	200	225	250	3000	500	54.3	110.7			390.00
K20C18X111G	18cc	200	215	230	3000	500	55.9	113.9			390.00
K20C22X111G	22cc	200	215	230	3000	400	59.2	120.6			390.00
K20C25X111G	25cc	180	200	215	2500	400	61.6	125.4			390.00

K20 Front Pump

BSPP Threaded Ports

SAE A 2 Bolt Mount

5/8" 9T Splined Shaft

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d	List
		P1	P2	P3							
K20C4.5X167G	4.5cc	200	225	250	3500	800	44.5	91.1	1/2	1/2	390.00
K20C6.3X167G	6.3cc	200	225	250	3500	800	46.1	94.3			390.00
K20C8.2X167G	8.2cc	200	225	250	3000	600	47.7	97.5			390.00
K20C10X167G	10cc	200	225	250	3000	500	49.3	100.8	3/4		390.00
K20C14X167G	14cc	200	225	250	3000	500	52.6	107.3			390.00
K20C16X167G	16cc	200	225	250	3000	500	54.3	110.7			390.00
K20C18X167G	18cc	200	215	230	3000	500	55.9	113.9			390.00
K20C22X167G	22cc	200	215	230	3000	400	59.2	120.6			390.00
K20C25X167G	25cc	180	200	215	2500	400	61.6	125.4			390.00

K20 Front Pump

BSPP Threaded Ports

SAE A 2 Bolt Mount

5/8" Straight Keyed Shaft

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d	List
		P1	P2	P3							
K20C4.5X457G	4.5cc	200	225	250	3500	800	44.5	91.1	1/2	1/2	390.00
K20C6.3X457G	6.3cc	200	225	250	3500	800	46.1	94.3			390.00
K20C8.2X457G	8.2cc	200	225	250	4000	600	47.7	97.5			390.00
K20C10X457G	10cc	200	225	250	3000	500	49.3	100.8	3/4		390.00
K20C14X457G	14cc	200	225	250	3000	500	52.6	107.3			390.00
K20C16X457G	16cc	200	225	250	3000	500	54.3	110.7			390.00
K20C18X457G	18cc	200	215	230	3000	500	55.9	113.9			390.00
K20C22X457G	22cc	200	215	230	3000	400	59.2	120.6			390.00
K20C25X457G	25cc	180	200	215	2500	400	61.6	125.4			390.00



K20 Middle Pump

BSPP Threaded Ports

Tang Drive

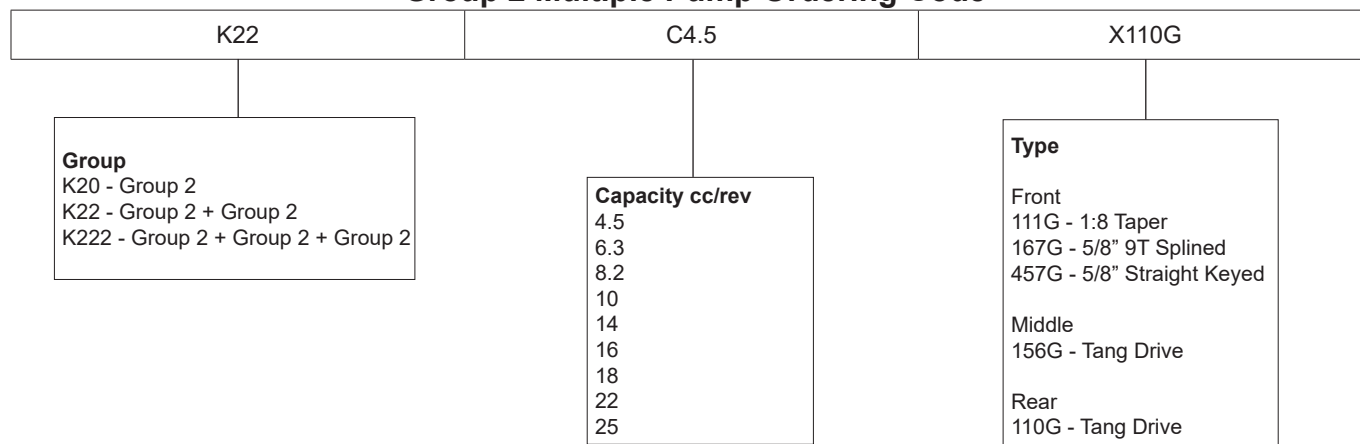
Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d	List
		P1	P2	P3							
K20C4.5X156G	4.5cc	200	215	230	4000	800	42.5	89.1	1/2	1/2	390.00
K20C6.3X156G	6.3cc	200	215	230	4000	800	44.1	92.3			390.00
K20C8.2X156G	8.2cc	200	215	230	4000	600	45.7	95.5			390.00
K20C10X156G	10cc	200	215	230	3000	500	47.3	98.8	3/4		390.00
K20C14X156G	14cc	200	215	230	3000	500	50.6	105.3			390.00
K20C16X156G	16cc	200	215	230	3000	500	52.3	108.7			390.00
K20C18X156G	18cc	200	215	230	3000	500	53.9	111.9			390.00
K20C22X156G	22cc	200	215	230	3000	400	57.2	118.6			390.00
K20C25X156G	25cc	180	200	215	3000	400	59.6	123.4			390.00

K20 Rear Pump

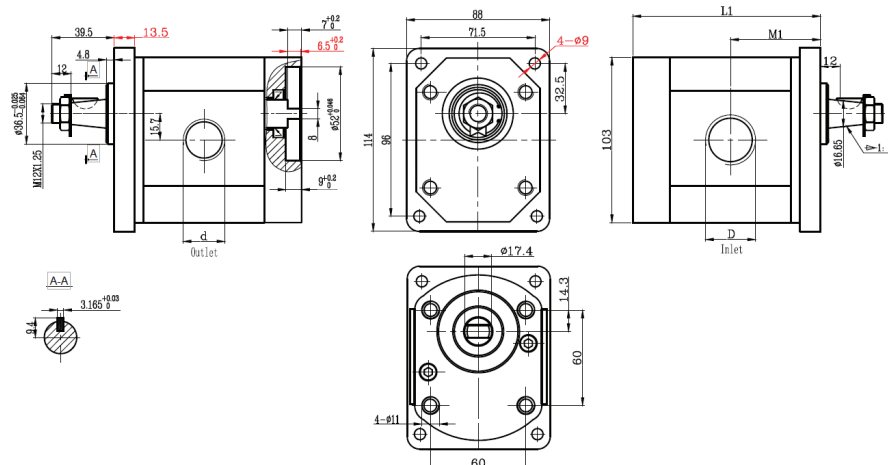
BSPP Threaded Ports

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d	List
		P1	P2	P3							
K20C4.5X110G	4.5cc	200	225	250	3500	800	42.5	82.9	1/2	1/2	390.00
K20C6.3X110G	6.3cc	200	225	250	3500	800	44.1	86.1			390.00
K20C8.2X110G	8.2cc	200	225	250	3000	600	45.7	89.3			390.00
K20C10X110G	10cc	200	225	250	3000	500	47.3	92.6	3/4		390.00
K20C14X110G	14cc	200	225	250	3000	500	50.6	99.1			390.00
K20C16X110G	16cc	200	225	250	3000	500	52.3	102.5			390.00
K20C18X110G	18cc	200	215	230	3000	500	53.9	105.7			390.00
K20C22X110G	22cc	200	215	230	3000	400	57.2	112.4			390.00
K20C25X110G	25cc	180	200	215	2500	400	59.6	117.2			390.00

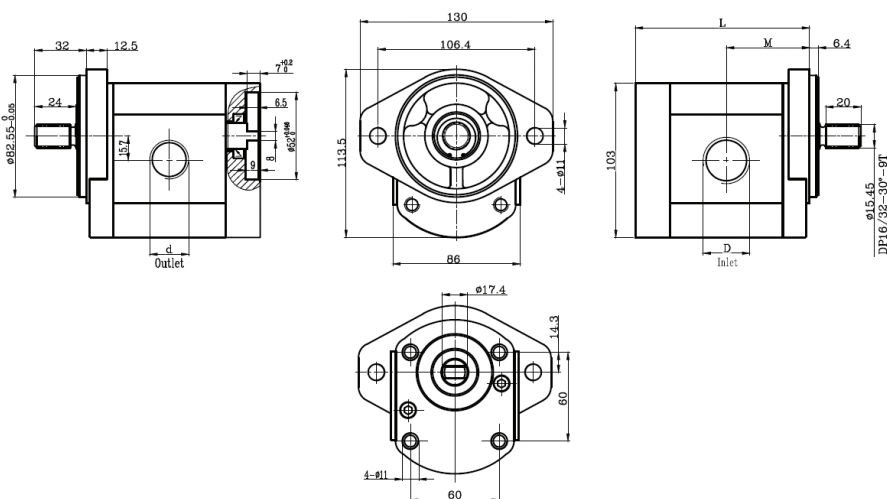
Group 2 Multiple Pump Ordering Code



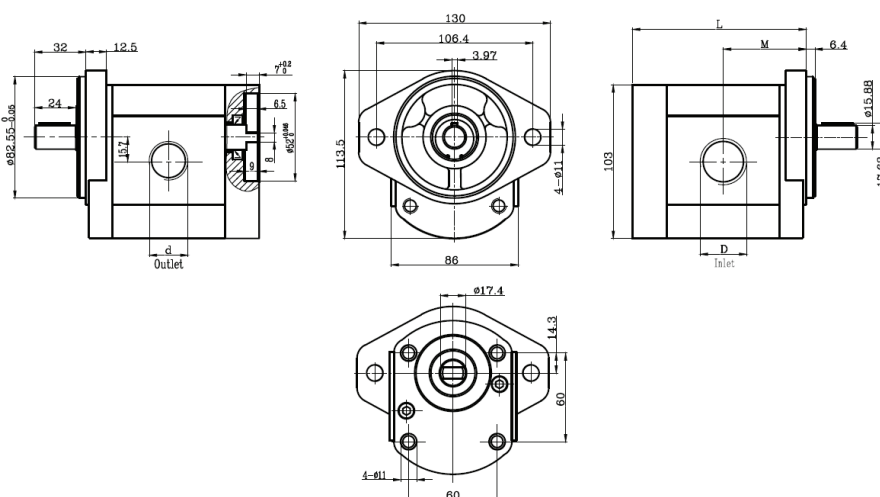
K20 Front Pump 111G



K20 Front Pump 167G

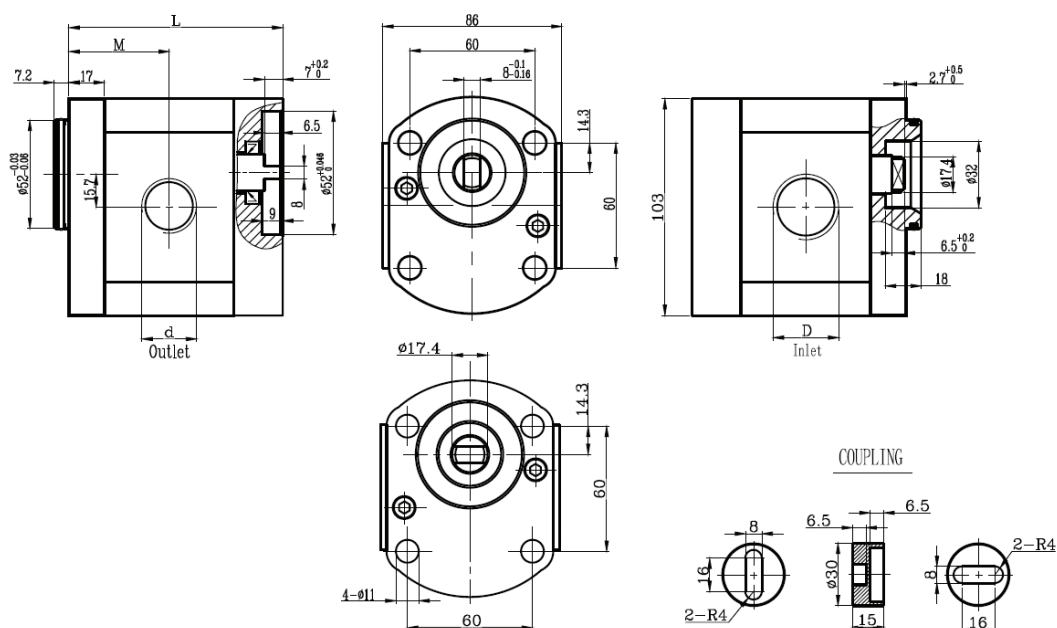


K20 Front Pump 457G

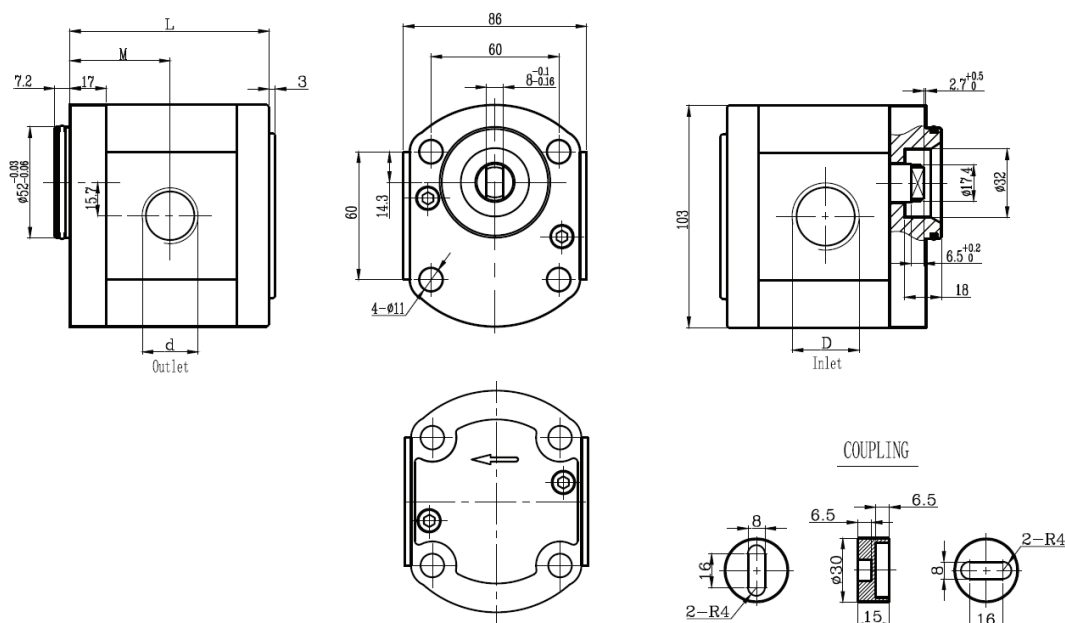




K20 Middle Pump 156G



K20 Rear Pump 110G



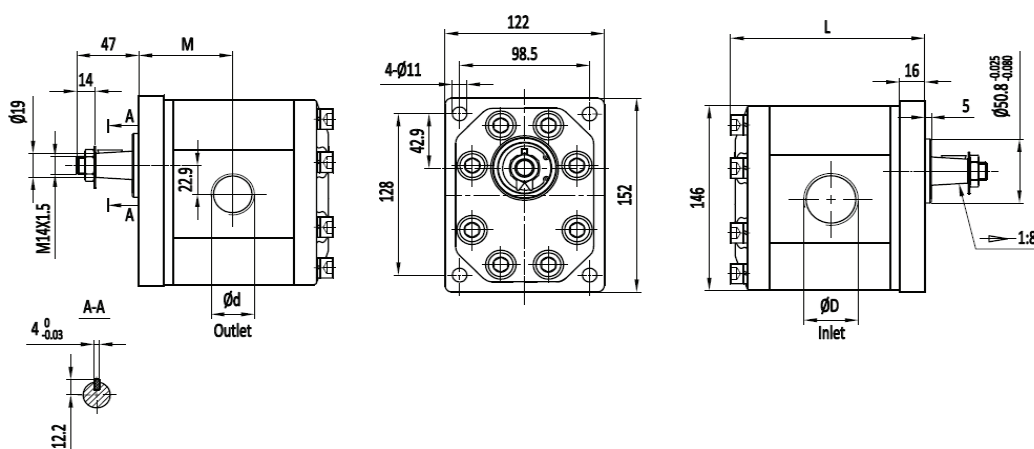
KGP3E8 Group 3

BSPP Threaded Ports

1:8 Taper Shaft



Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d	List
		P1	P2	P3							
KGP3E8D20Z9L6	20	200	225	250	3500	600	63	129	3/4	3/4	630.00
KGP3E8D22Z9L8	22	200	225	250	3500	600	64	131			TBA
KGP3E8D26Z9L8	26	200	225	250	3000	600	65	134	1	3/4	630.00
KGP3E8D33Z9L8	33	200	225	250	3000	500	68	140			630.00
KGP3E8D39Z9L8	39	200	225	250	3000	500	72	147			630.00
KGP3E8D46Z9L10	46	200	225	250	3000	500	75	153	1 1/4	1	630.00
KGP3E8D50Z9L10	50	200	225	250	3000	500	77	157			630.00
KGP3E8D52Z9L10	52	200	225	250	3000	500	78	159			TBA
KGP3E8D55Z9L10	55	200	225	250	2800	500	79	161			630.00
KGP3E8D63Z9L10	63	200	225	250	2800	500	83	169			630.00
KGP3E8D71Z9L12	71	180	200	220	2500	500	86	176	1 1/2	1 1/4	630.00



Group 3 Multiple Pump Ordering Code

KG	P	3	E8	D	4	J5	L*
KG = Front and end cover material are cast iron	Pump	Group 3	Front Cover	Rotation D - Clockwise S - Anti-Clockwise	Size: 20 22 26 33 39 46 50 52 55 63 71	Shaft: Z9 - 1:8 Taper	Ports: L6 - 3/4" BSPP L8 - 1" Inlet, 3/4" Outlet L10 - 1 1/4" Inlet, 1" Outlet L12 - 1 1/2" Inlet, 1 1/4" Outlet



KGP3A8 Group 3

SAE B Mount

BSPP Threaded Ports

7/8" Keyed Shaft

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d	List
		P1	P2	P3							
KGP3A8D20P29L6	20	200	225	250	3500	600	63	129	3/4	3/4	630.00
KGP3A8D26P29L8	26	200	225	250	3000	600	65	134	1	3/4	630.00
KGP3A8D33P29L8	33	200	225	250	3000	500	68	140			630.00
KGP3A8D39P29L8	39	200	225	250	3000	500	72	147			630.00
KGP3A8D46P29L10	46	200	225	250	3000	500	75	153	1 1/4	1	630.00
KGP3A8D50P29L10	50	200	225	250	3000	500	77	157			630.00
KGP3A8D55P29L10	55	200	230	250	2800	400	79	161			630.00
KGP3A8D63P29L10	63	200	230	250	2800	400	83	169			630.00
KGP3A8D71P29L12	71	180	200	220	2500	400	86	176	1 1/2	1 1/4	630.00

KGP3A8 Group 3

SAE B Mount

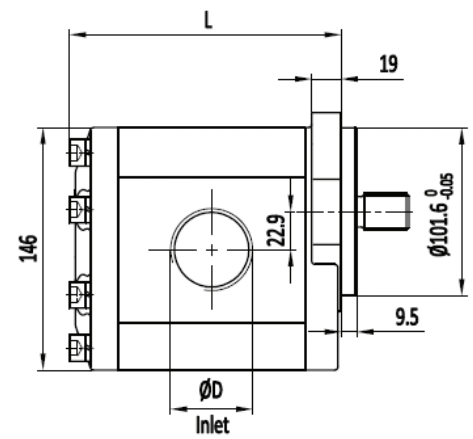
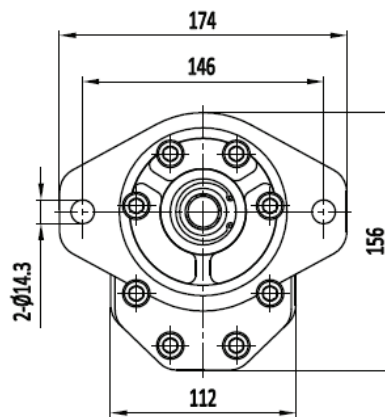
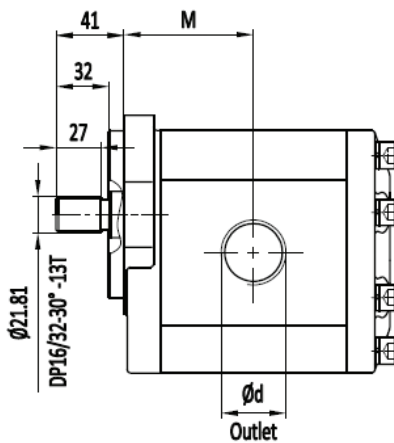
BSPP Threaded Ports

7/8" 9T Splined Shaft

Part Number	Displacement cc/rev	Max Pressure Bar			Max Speed rpm	Min Speed rpm	M	L	D	d	List
		P1	P2	P3							
KGP3A8D20J17L6	20	200	225	250	3500	600	63	129	3/4	3/4	630.00
KGP3A8D22J17L6	22	200	225	250	3500	600	64	131			630.00
KGP3A8D26J17L8	26	200	225	250	3000	600	65	134	1	3/4	630.00
KGP3A8D33J17L8	33	200	225	250	3000	500	68	140			630.00
KGP3A8D39J17L8	39	200	225	250	3000	500	72	147			630.00
KGP3A8D46J17L10	46	200	225	250	3000	500	75	153	1 1/4	1	630.00
KGP3A8D50J17L10	50	200	225	250	3000	500	77	157			630.00
KGP3A8D55J17L10	55	200	225	250	2800	400	79	161			630.00
KGP3A8D63J17L10	63	200	225	250	2800	400	83	169			630.00
KGP3A8D71J17L12	71	180	200	220	2500	400	86	176	1 1/2	1 1/4	630.00

Group 3 SAE Gear Pump Ordering Code

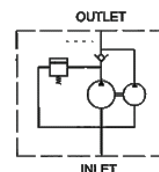
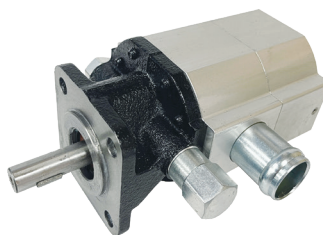
KG	P	3	A8	D	20	J5	L5
Series: KG = Front and end cover material is cast iron.	Pump	Group 3	Front Cover	Rotation: D - Clockwise S - Anti-Clockwise	Displacement cc/rev: 20 26 33 39 46 50 55 63 71	Shaft: P16 = J17 = 7/8" 13T Splined Shaft	Ports: L6 = 3/4" BSPP L8 = 1" Inlet, 3/4" Outlet L10 = 1 1/4" Inlet, 1" Outlet L12 = 1 1/2" Inlet, 1 1/4" Outlet



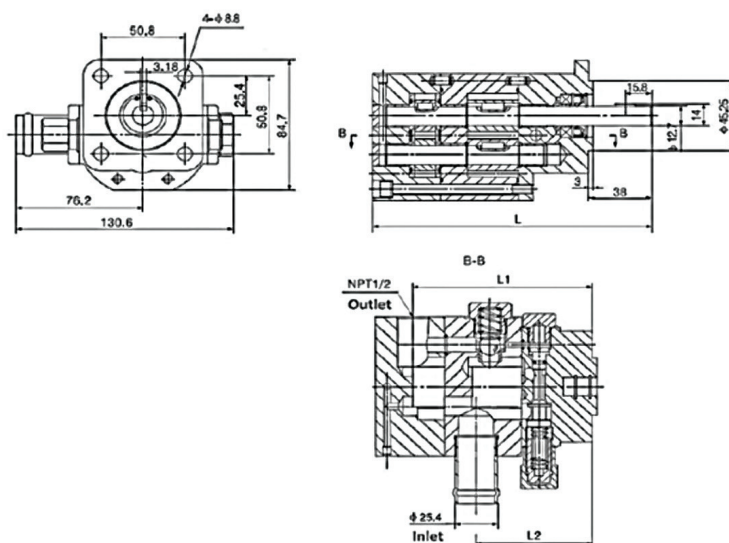


KBNA Hi Lo Gear Pumps

To suit Log Splitters and Presses

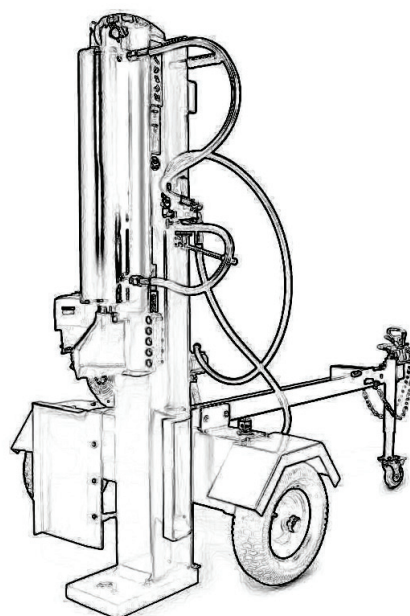


Part Number	Horsepower	Displacement		Max Pressure	Unloading Pressure Range	Speed	Rotating Direction	List
		Front	Rear					
KBNA-8.8-3.6	5 HP	8.8cc	3.6cc	210 bar	45 bar	3600 rpm	CW	379.00
KBNA-13-4.3	10 HP	13cc	4.2cc					401.00



Dimensions

Part Number	L1 (mm)	L2 (mm)	L (mm)
KBNA-8.8/3.6	107.6	69.6	167.9
KBNA-13/4.3	122.1	84.1	184.7



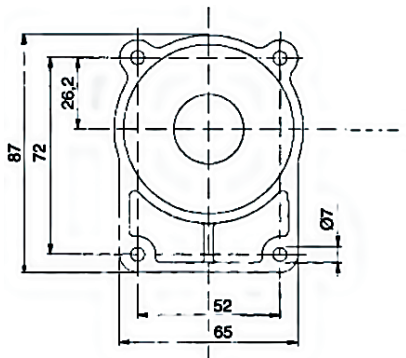


To suit Group 1, Group 2, Group 3 Pumps and Motors

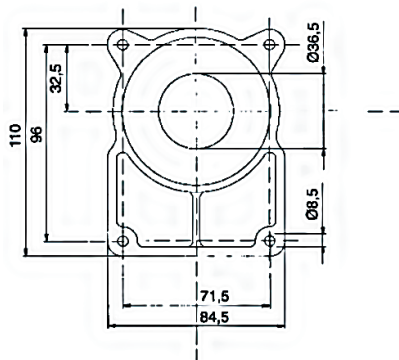


Part Number	Description	Pump Shaft (Input)	Support Shaft (Output)	List
SP-U1P	Bearing Support	Taper 1:8 Group 1	18mm Str Keyed 6mm Key	279.00
SP-R2	Bearing Support	Taper 1:8 Group 2	22mm Str Keyed 6mm Key	337.00
SP-2-C	Bearing Support	Taper 1:8 Group 2	Taper 1:8 Group 2, 4mm Key	323.00
SP-3U	Bearing Support	Taper 1:8 Group 3	24mm Str Keyed 8mm Key	533.00
KS25402	Bearing Support	Taper 1:8 Group 2	Taper 1:8 Group 2	281.00
KS25602	Bearing Support	Taper 1:8 Group 2	18mm Str Keyed 6mm Key Grp 2 Mount	281.00
KS25603	Bearing Support	Taper 1:8 Group 2	22mm Str Keyed 6mm Key Grp 2 Mount	281.00

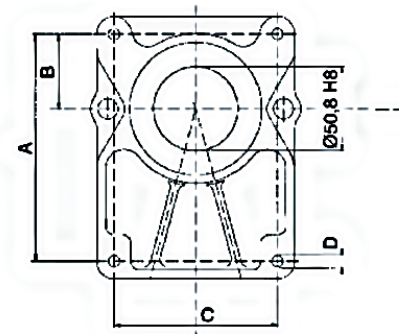
Order Adaptor Coupling Separately



Group 1



Group 2



Group 3

A	B	C	D
128	42	98.5	11

Half Coupling Adaptor

Part Number	Description	Pump Shaft (Input)	Major Shaft Diameter	List
B-U1P	Splined Adaptor for SP-U1P	Taper 1:8 Group 1	9.7mm	27.00
B-R2CA	Splined Adaptor for SP-R2	Taper 1:8 Group 2 (3.2mm Key)	17.2mm	35.00
B-R2U	Splined Adaptor for SP-R2	Taper 1:8 Group 2	17.2mm	35.00
B-2U use KM10005	Splined Adaptor for SP-2-C	Taper 1:8 Group 2	17.2mm	32.00
B-3U	Splined Adaptor for SP-3U	Taper 1:8 Group 3	22.2mm	37.00
KM10007	Splined Adaptor for KM25603	Taper 1:8 Group 2	17.2mm	22.00



10 KW

Aluminium Gear Boxes

Male Shaft



Female Shaft



Female Shaft with Locking Mechanism



600 Series Speed Increaser 3:1 10 KW

Part Number	Input Type	Pump Mount	List
KM6001-4A	Male 6T 1 3/8"	Group 2	412.00
KM6002-4A	Female 6T 1 3/8"	Group 2	412.00
KM6004-4A	Female 6T + Lock 1 3/8"	Group 2	TBA
KM6001-4AS	Male 6T 1 3/8"	SAE A	468.00
KM6002-4AS	Female 6T 1 3/8"	SAE A	468.00
KM6004-4AS	Female 6T + Lock 1 3/8"	SAE A	TBA

600 Series Specifications

Input Nm	Output Nm	Input rpm	Output rpm	Power KW	Kgs
180	55	540	1620	10	5.8

20 KW

Male Shaft



Female Shaft



Female Shaft with Locking Mechanism



700 Series Speed Increaser 3:1 20 KW

Part Number	Input Type	Pump Mount	List
KM7001-4A	Male 6T 1 3/8"	Group 2 & Group 3	630.00
KM7002-4A	Female 6T 1 3/8"	Group 3	630.00
KM7004-4A	Female 6T + Lock 1 3/8"	Group 2	TBA
KM7001-4AS	Male 6T 1 3/8"	SAE A	686.00
KM7002-4AS	Female 6T 1 3/8"	SAE A	686.00
KM7004-4AS	Female 6T + Lock 1 3/8"	SAE A	TBA
KM7001-4AT	Male 6T 1 3/8"	SAE B	698.00
KM7002-4AT	Female 6T 1 3/8"	SAE B	698.00
KM7004-4AT	Female 6T + Lock 1 3/8"	SAE B	TBA

700 Series Specifications

Input Nm	Output Nm	Input rpm	Output rpm	Power KW	Kgs
490	160	540	1620	20	9.7

37 KW

Cast Iron Gear Boxes

Heavy Duty

Male Shaft



Female Shaft



Female Shaft with Locking Mechanism

Cast Iron 700 Series Speed Increaser 3:1 **37KW**

Part Number	Input Type	Pump Mount	List
KMT7001-4A	Male 1 3/8"	Group 2/3	755.00
KMT7002-4A	Female 1 3/8"		755.00
KMT7004-4A	Female 6T + Lock 1 3/8"		755.00

Cast Iron 700 Series Specifications

Input Nm	Output Nm	Input rpm	Output rpm	Power KW	Kgs
660	220	540	1620	37	16

Flanges

	Part Number	Description	List
	KM60100	KM Gear Box to SAE A 2 Bolt Mount Pump	57.00
	KM96101	KM Gear Box to SAE B 2 Bolt Mount Pump	69.00

Couplings - Order Separately from Gear Boxes

	Part Number	Description	List
	KM10005	KM600 to Grp 2 1:8 Taper Pump	22.00
	KM10007	KM25603 Support to Grp 2 1:8 Taper Pump	22.00
	KM10012	KM700 to Grp 2 1:8 Taper	22.00
	KM10014	KM700 to Grp 3 1:8 Taper Pump	22.00
	KM15002	KM700 to SAE B 7/8" Str Keyed Pump	49.00
	KM35505	KM700 to SAE B 13T Splined Pump	49.00
	KM35517	KM600 to SAE A 9T Splined Pump	49.00

SAE 80/90 Oil Type Recommended



Hand Pump - No Tank

Part Number	Description	Displacement CM3/Cycle	Max Pressure bar	List
HP1-20	Hand Pump - No Tank	20 CC	350	339.00
HP1-50	Hand Pump - No Tank	45 CC	260	412.00

Hand Pump Single & Double Acting No Tank

Part Number	Description	Displacement CM3/Cycle	Max Pressure bar	List
HPT-12	Single Acting - No Tank	12 CC	380	351.00
HPT-25	Single Acting - No Tank	25 CC	350	376.00
HPT-45	Single Acting - No Tank	45 CC	280	388.00
HPTD-12	Double Acting - No Tank	12 CC	380	363.00
HPTD-25	Double Acting - No Tank	25 CC	350	388.00
HPTD-45	Double Acting - No Tank	45 CC	280	400.00



Single Acting with 2 Litre Tank & Lever

Part Number	Description	Displacement CM3/Cycle	Max Pressure bar	List
HPT1-2-1	Single Acting - 2L Tank	12	380	519.00
HPT2-2-1	Single Acting - 2L Tank	25	350	543.00
HPT3-2-1	Single Acting - 2L Tank	45	280	555.00

Double Acting with 2 Litre Tank & Lever

Part Number	Description	Displacement CM3/Cycle	Max Pressure bar	List
HPTD1-2-1	Double Acting - 2L Tank	12	380	531.00
HPTD2-2-1	Double Acting - 2L Tank	25	350	555.00
HPTD3-2-1	Double Acting - 2L Tank	45	280	567.00

Optional Tanks

Part Number	Description	Add to List
HP-2	2 Litre	STD
HP-3	3 Litre	20.00
HP-5	5 Litre	61.00
HP-7	7 Litre	85.00
HP-10	10 Litre	182.00

Handle

HP-Lever	Handle Round	35.00
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Mel - 03 9738 2040

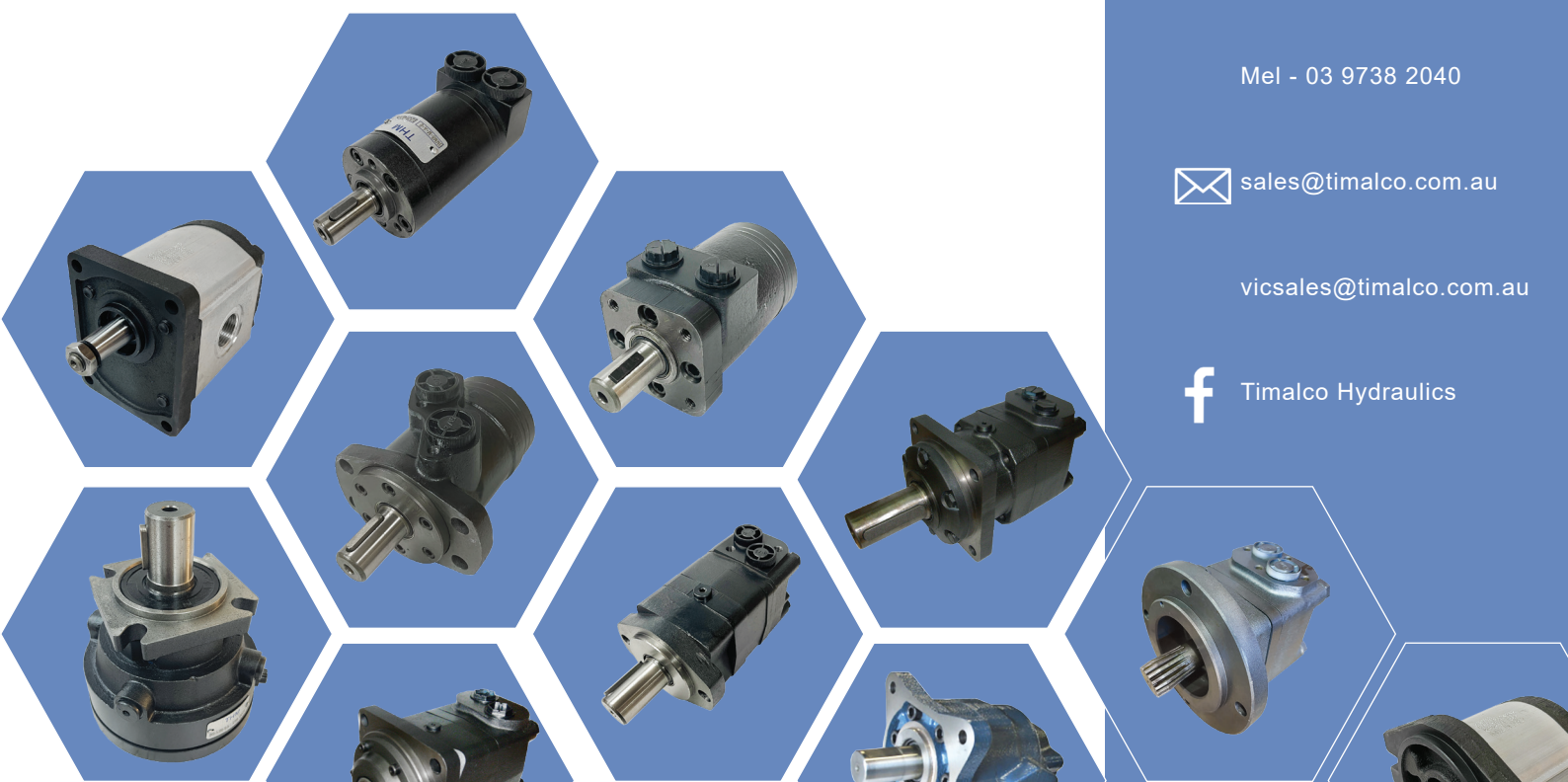


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Timalco Hydraulics





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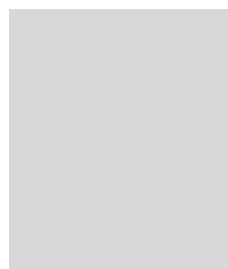
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MZ2AG Group 2, BSPP Threaded Ports, 1:8 Taper Shaft

Part Number	cc/rev	Porting			List
		Pressure	Suction	Drain	
MZ2AG06C034R	6.28	1/2" BSPP	1/2" BSPP	1/4" BSPP	491.00
MZ2AG08C034R	8.16	1/2" BSPP	1/2" BSPP	1/4" BSPP	491.00
MZ2AG11C034R	11.30	1/2" BSPP	1/2" BSPP	1/4" BSPP	517.00
MZ2AG14C041R	14.45	3/4" BSPP	3/4" BSPP	1/4" BSPP	517.00
MZ2AG17C041R	16.95	3/4" BSPP	3/4" BSPP	1/4" BSPP	517.00
MZ2AG20C041R	20.10	3/4" BSPP	3/4" BSPP	1/4" BSPP	517.00
MZ2AG25C041R	25.75	3/4" BSPP	3/4" BSPP	1/4" BSPP	542.00
MZ2AG31C041R	31.40	3/4" BSPP	3/4" BSPP	1/4" BSPP	571.00

CASE DRAIN MUST BE FITTED

Cast Iron Covers and Special Bushings, Heavy Duty



PZ2CG SAE A 2 Bolt Mount, BSPP Threaded Ports

Part Number		cc/rev	Threaded Porting			List
5/8" Keyed Shaft	9T SAE A Splined Shaft		Pressure	Suction	Drain	
PZ2CG06L4034R	PZ2CG06S4034R	6.28	1/2" BSPP	1/2" BSPP	7/16 UNF	491.00
PZ2CG08L4034R	PZ2CG08S4034R	8.16	1/2" BSPP	1/2" BSPP	7/16 UNF	491.00
PZ2CG11L4034R	PZ2CG11S4034R	11.30	1/2" BSPP	1/2" BSPP	7/16 UNF	517.00
PZ2CG14L4041R	PZ2CG14S4041R	14.45	3/4" BSPP	3/4" BSPP	7/16 UNF	517.00
PZ2CG17L4041R	PZ2CG17S4041R	16.95	3/4" BSPP	3/4" BSPP	7/16 UNF	517.00
PZ2CG20L4041R	PZ2CG20S4041R	20.10	3/4" BSPP	3/4" BSPP	7/16 UNF	517.00
PZ2CG25L4041R	PZ2CG25S4041R	25.75	3/4" BSPP	3/4" BSPP	7/16 UNF	542.00
PZ2CG31L4041R	PZ2CG31S4041R	31.40	3/4" BSPP	3/4" BSPP	7/16 UNF	571.00

CASE DRAIN MUST BE FITTED

Cast Iron Covers and Special Bushings, Heavy Duty



Seal Kits

Part Number	Description	List
MZ2A-SK	Group 2 Motor Seal Kit	83.00
MZ2A-SS	Group 2 Motor Shaft Seal	46.00
MW3-SK	Group 3 Motor Seal Kit	77.00
MW3-SS	Group 3 Motor Shaft Seal	51.00



Gerotor Motor - BMM

Rear Ports, 3/8" BSPP				
Part Number	cc/rev	L	L1	List
BMM8-M-A-IE-00	8cc	104	3.5	396.00
BMM12.5-M-A-IE-00	12.5cc	106	5.5	398.00
BMM20-M-A-IE-00	20cc	109	8.5	398.00
BMM32-M-A-IE-00	32cc	114	13.5	404.00
BMM40-M-A-IE-00	40cc	117.5	17	410.00
BMM50-M-A-IE-00	50cc	122	21.5	430.00
BMM-SK	BMM Seal Kit			60.00
BMM-F-Flange	2 Bolt SAE AA Flange 63mm			30.00



Side Ports, 3/8" BSPP				
Part Number	cc/rev	L	L1	List
BMM8-M-A-E-00	8cc	105	3.5	396.00
BMM12.5-M-A-E-00	12.5cc	107	5.5	398.00
BMM20-M-A-E-00	20cc	110	8.5	398.00
BMM32-M-A-E-00	32cc	115	13.5	404.00
BMM40-M-A-E-00	40cc	118.5	17	410.00
BMM50-M-A-E-00	50cc	123	21.5	430.00
BMM-SK	BMM Seal Kit			60.00
BMM-F-Flange	2 Bolt SAE AA Flange 63mm			30.00

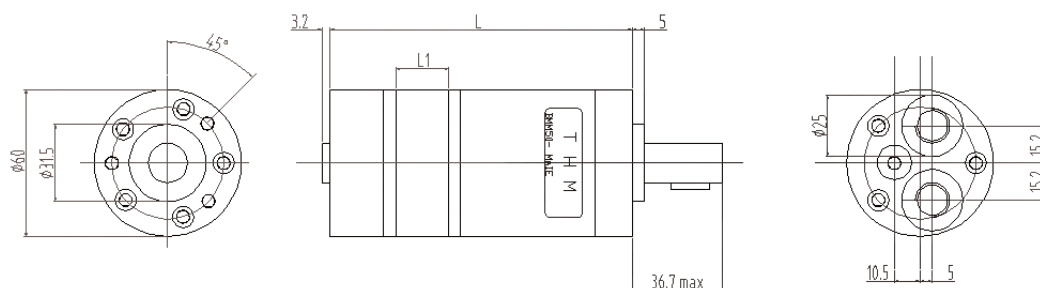


Ordering Code

Pos 1	2	3	4	5	6	7
Code	Disp cc/ rev	Flange	Output Shaft	Ports	Rotation	Paint
BMM	8	3 - M6 Circle Flange, pilot 31.5 x 5	ShaftØ16, parallel key 5 x 5 x 16	3/8 BSPP Side	E	No Paint
	12.5	3 - 1/4 - 28UNF Circle Flange, pilot 31.5 x 5	ShaftØ15.875, parallel key 4.8 x 4.8 x 19.35	G3/8, G38	U	
	16			3/8 BSPP	IE	
	20			9/16 - 18UNF, 3/8 - 24UNF	IU	
	32	2 - 9mm flange, pilot 63 x 2	ShaftØ16.5, involute B17 x 14, DIN5482			
	40					
	50					

Specifications

		BMM8	BMM12.5	BMM20	BMM32	BMM40	BMM50
Geometric Displacement (cm³/rev)		8.2	12.9	19.9	31.6	39.8	50.3
Max Speed (rpm)	Rated	1537	1256	814	513	452	358
	Cont	1950	1550	1000	630	500	400
	Int	2450	1940	1250	800	630	500
Max Torque (N-m)	Rated	8	13	19	31	37	33
	Cont	11	16	25	40	45	46
	Int	15	23	35	57	70	88
Max Pressure Drop (Mpa)	Rated	9	9	9	9	8.5	6
	Cont	10	10	10	10	9	7
	Int	14	14	14	14	14	14
	Peak	20	20	20	16	16	16
Max Flow (L/min)	Rated	14	18	18	18	20	20
	Cont	16	20	20	20	20	20
	Int	20	25	25	25	25	25
Weight (Kg)		1.9	2	2.1	2.2	2.3	2.4



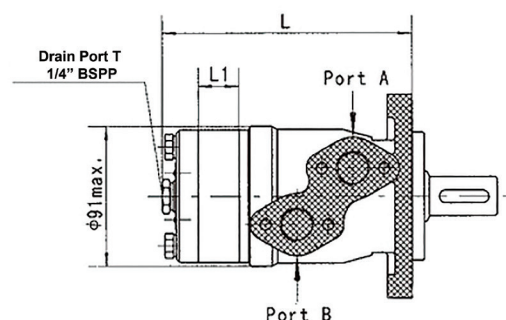


Gerotor Motor - BMP

Needle Bearings

Standard Model							
Part Number	Displacement	Mount	Shaft	Ports	L	L1	List
BMP36-2-C-D-N	36cc	SAE A 2 Bolt	1" Parallel Key	1/2" BSPP	136	7	438.00
BMP50-2-C-D-N	50cc				137	7	438.00
BMP80-2-C-D-N	80cc				140.5	10.5	440.00
BMP100-2-C-D-N	100cc				143	13	454.00
BMP125-2-C-D-N	125cc				146	16	466.00
BMP160-2-C-D-N	160cc				151	21	480.00
BMP200-2-C-D-N	200cc				157	26	494.00
BMP250-2-C-D-N	250cc				162	32	502.00
BMP315-2-C-D-N	315cc				172	42	514.00
BMP400-2-C-D-N	400cc				182	52	554.00

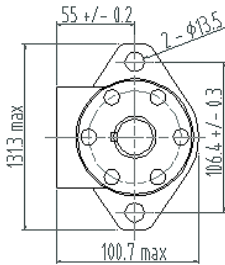
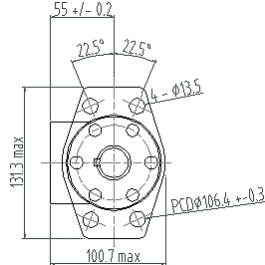
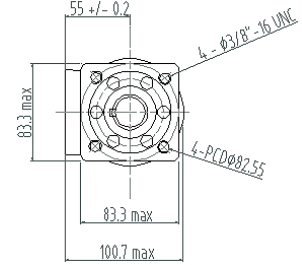
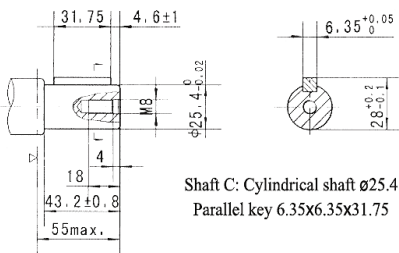
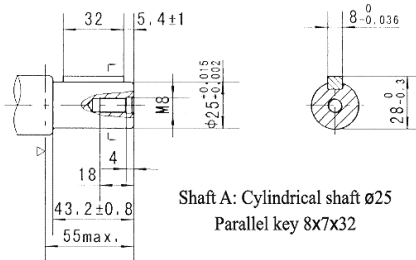
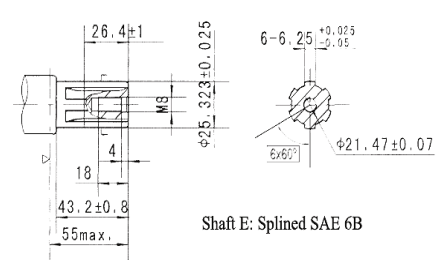
Options		Add to List
Mount Type		
2	Standard SAE A 2 Bolt	N/C
H5	4 Bolt Square Mount M10	30.00
4	SAE A 4 Bolt Magneto Mount	16.00
Shaft Type		
C	Ø 1" Keyed Shaft 25.4 (Key 6.35 x 6.35 x 31.75)	N/C
A	Ø 25mm Keyed Shaft (Key 8 x 7 x 32)	N/C
E	6B 1" Ø SAE 6B Splined Shaft	16.00
Seal Kit		
BMP-SK	Seal Kit	82.00



BMP Ordering Code

Series	Displacement cc/rev	-	Flange	-	Shaft	-	Ports	-	Bearing
BMP	36	-	2 Standard SAE A 2 Bolt	-	C 1" (25.4mm) Parallel Key 6.35 x 6.35 x 31.75	-	D 1/2" BSPP	-	N Radial Force Bearings
	50		4 SAE A 4 Bolt Magneto		A 25mm Metric Parallel Key 8 x 7 x 32				
	80	H5	4 Bolt Square M10		E SAE 6B Splined 1" (25.4mm)				
	100								
	125								
	160								
	200								
	250								
	315								
	400								



**2 Standard SAE 2 Bolt Mount****4 SAE A 4 Bolt Magneto Mount****H5 4 Bolt Square Mount**Shaft C: Cylindrical shaft Ø25.4
Parallel key 6.35x6.35x31.75**C 1" Keyed Shaft**Shaft A: Cylindrical shaft Ø25
Parallel key 8x7x32**A 25mm Keyed Shaft**

Shaft E: Splined SAE 6B

E 6B 1" Splined Shaft

Specifications

		BMP36	BMP50	BMP80	BMP100	BMP125	BMP160	BMP200	BMP250	BMP315	BMP400
Displacement (cm ³ /rev)		36	51.7	77.7	96.2	117.9	155.5	189.9	231	311.7	386.2
Max Speed (rpm)	Rated	1050	850	650	520	390	310	260	200	156	130
	Cont	1078	879	740	589	475	370	296	237	189	149
	Int	1210	975	827	673	594	463	370	297	236	185
Max Torque (N-m)	Rated	55	81	129	161	202	204	259	325	345	435
	Cont	55	81	129	161	202	245	286	360	406	435
	Int	76	106	171	213	268	342	390	456	505	533
Max Output (Kw)	Rated	6	7	8.6	8.6	8	6.5	6.9	6.6	5.5	5.8
	Cont	6	7	9.1	9	9.1	8.7	8.1	8.2	7.2	6.1
	Int	8	8.9	11.8	11.9	11.8	11.9	10.9	10.1	8.6	7.2
Max Pressure Drop (Mpa)	Rated	12.5	12.5	12.5	12.5	12.5	10	10	10	8.5	8.5
	Cont	12.5	12.5	12.5	12.5	12.5	12.5	11	11	11	10
	Int	16.5	16.5	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5
	Peak	16.5	16.5	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5
Max Flow (L/Min)	Rated	40	45	55	55	55	55	55	55	55	55
	Cont	40	45	60	60	60	60	60	60	60	60
	Int	45	50	75	75	75	75	75	75	75	75
Weight (Kg)		5.6	5.6	5.7	5.9	6	6.2	6.4	6.6	6.9	7.4

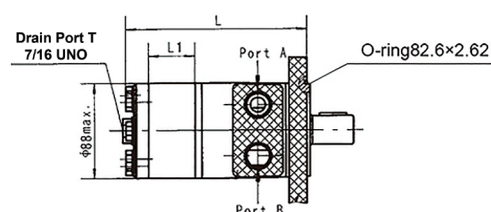


Gerotor Motor - BMPH

Needle Bearings

Standard Model							
Part Number	Displacement	Mount	Shaft	Ports	L	L1	List
BMPH50-H2-K-S-N	50	SAE A 2 Bolt	1" Keyed Shaft	7/8" O-Ring	141	7	438.00
BMPH80-H2-K-S-N	80				144.5	10.5	440.00
BMPH100-H2-K-S-N	100				147	13	454.00
BMPH125-H2-K-S-N	125				150	16	466.00
BMPH160-H2-K-S-N	180				155	21	480.00
BMPH200-H2-K-S-N	200				160	26	494.00
BMPH250-H2-K-S-N	250				166	32	502.00
BMPH315-H2-K-S-N	315				176	42	516.00
BMPH400-H2-K-S-N	400				186	52	556.00

Options		Add to List
Mount Type		
H2	Standard SAE A 2 Bolt	N/C
H4	4 Bolt Square Mount 3/8" unc	30.00
Shaft Type		
K	Ø 1" Keyed Shaft 25.4 (Woodruff Key 6.35)	N/C
S	6B 1" Ø SAE 6B Splined Shaft	16.00
Seal Kit		
BMPH-SK	Seal Kit	82.00

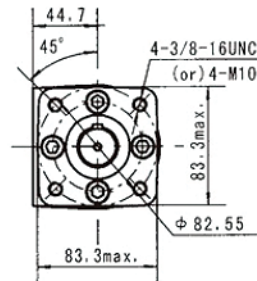
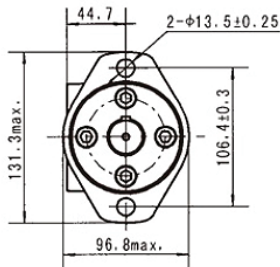
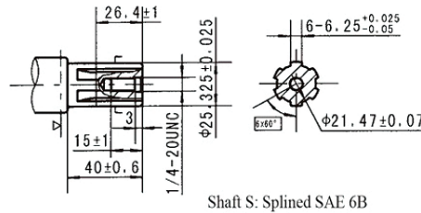
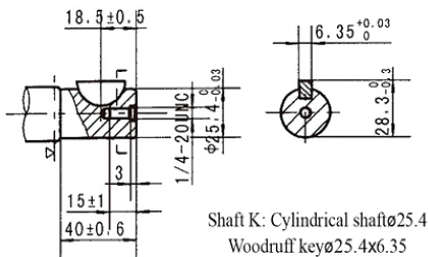


BMPH Ordering Code

Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports		-	Bearing	
BMPH	50	-	H2	Standard SAE A 2 Bolt	-	K	1" (25.4mm) Woodruff Key 25.4 x 6.35	-	S	7/8" - 14 O-ring	-	N	Radial Force Bearings
	80		H4	4 Bolt Square Mount 3/8" unc		S	SAE 6B Splined 1" (25.4mm)						
	125												
	160												
	200												
	250												
	315												
	400												





**H2** SAE A 2 Bolt Mount**H4** 4 Bolt Square Mount**K** 1" Keyed Shaft**S** 6B 1" Splined Shaft

Specifications

		BMP36	BMP50	BMP80	BMP100	BMP125	BMP160	BMP200	BMP250	BMP315	BMP400
Displacement (cm ³ /rev)		36	51.7	77.7	96.2	117.9	155.5	189.9	231	311.7	386.2
Max Speed (rpm)	Rated	1050	850	650	520	390	310	260	200	156	130
	Cont	1078	879	740	589	475	370	296	237	189	149
	Int	1210	975	827	673	594	463	370	297	236	185
Max Torque (N-m)	Rated	55	81	129	161	202	204	259	325	345	435
	Cont	55	81	129	161	202	245	286	360	406	435
	Int	76	106	171	213	268	342	390	456	505	533
Max Output (Kw)	Rated	6	7	8.6	8.6	8	6.5	6.9	6.6	5.5	5.8
	Cont	6	7	9.1	9	9.1	8.7	8.1	8.2	7.2	6.1
	Int	8	8.9	11.8	11.9	11.8	11.9	10.9	10.1	8.6	7.2
Max Pressure Drop (Mpa)	Rated	12.5	12.5	12.5	12.5	12.5	10	10	10	8.5	8.5
	Cont	12.5	12.5	12.5	12.5	12.5	12.5	11	11	11	10
	Int	16.5	16.5	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5
	Peak	16.5	16.5	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5
Max Flow (L/Min)	Rated	40	45	55	55	55	55	55	55	55	55
	Cont	40	45	60	60	60	60	60	60	60	60
	Int	45	50	75	75	75	75	75	75	75	75
Weight (Kg)		5.6	5.6	5.7	5.9	6	6.2	6.4	6.6	6.9	7.4

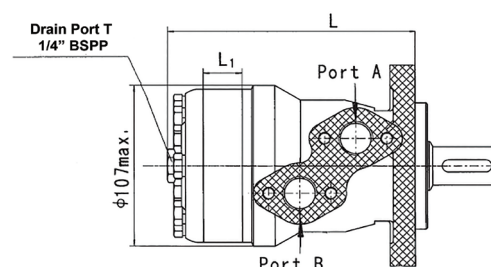


Geroler Motor - BMR

Needle Bearings

Standard Model							
BMR***-2-C-D-N	Displacement	Mount	Shaft	Ports	L	L1	List
BMR36-2-C-D-N	36	SAE A 2 Bolt	1" Keyed Shaft	1/2" BSPP	136	7	550.00
BMR50-2-C-D-N	50				140	10	550.00
BMR80-2-C-D-N	80				146	16	568.00
BMR100-2-C-D-N	100				150	20	576.00
BMR125-2-C-D-N	125				155	25	596.00
BMR160-2-C-D-N	160				161.5	31.5	612.00
BMR200-2-C-D-N	200				170	40	620.00
BMR250-2-C-D-N	250				180	50	678.00
BMR315-2-C-D-N	315				192	62	686.00
BMR400-2-C-D-N	400				204	74	692.00

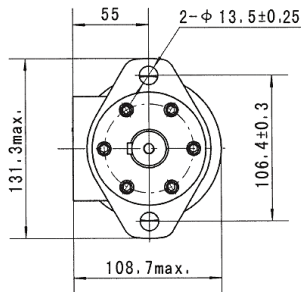
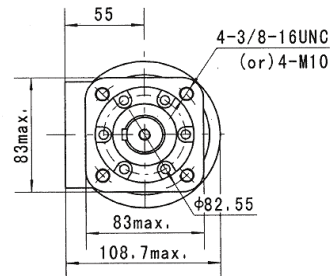
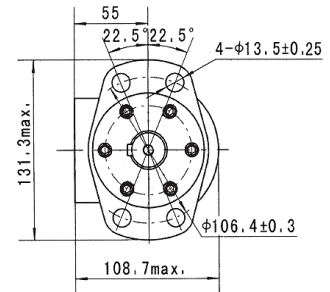
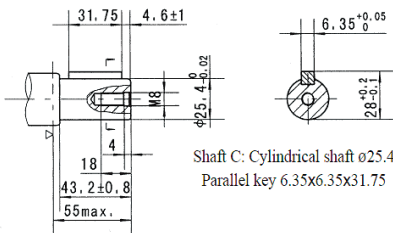
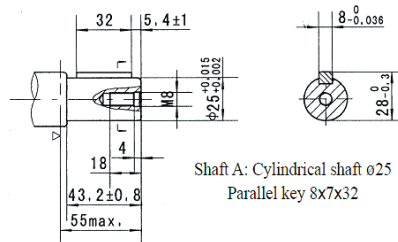
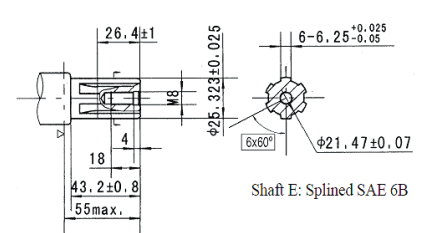
Options		Add to List
Mount Type		
2	Standard SAE A 2 Bolt	N/C
H5	4 Bolt Square Mount M10	30.00
4	4 Bolt Magneto Mount	16.00
Shaft Type		
C	Ø 1" Keyed Shaft 25.4 (Key 6.35 x 6.35 x 31.75)	N/C
A	Ø 25mm Keyed Shaft (Key 8 x 7 x 32)	N/C
E	6B 1"Ø SAE 6B Splined Shaft	16.00
Seal Kit		
BMR-SK	Seal Kit	82.00



BMR Ordering Code

Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports		-	Bearing	
BMR	36	-	2	Standard SAE A 2 Bolt	-	C	Ø 1" Keyed Shaft 25.4 (Key 6.35x6.35x31.75)	-	D	1/2" BSPP	-	N	Radial Force Bearings
	50		H5	4 Bolt Square Mount M10		A	Ø 25mm Keyed Shaft (Key 8x7x32)						
	80		4	4 Bolt Magneto Mount		E	6B 1"Ø SAE 6B Splined Shaft						
	100												
	125												
	160												
	200												
	250												
	315												
	400												



**2** Standard SAE 2 Bolt Mount**H5** 4 Bolt Square Mount M10**4** 4 Bolt Magneto Mount**C** 1" Keyed Shaft**A** 25mm Keyed Shaft**E** 6B 1" Splined Shaft

Specifications

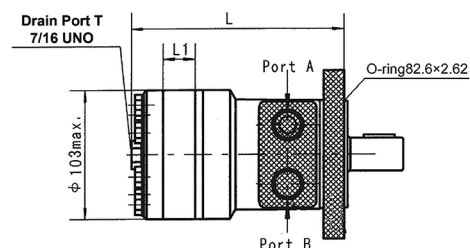
		BMR50	BMR80	BMR100	BMR125	BMR160	BMR200	BMR250	BMR315	BMR400
Geometric Displacement (cm ³ /rev)		51.3	80.6	100.8	124.9	157.2	199.2	252	314.5	370
Max Speed (rpm)	Rated	755	750	600	475	375	300	240	190	160
	Cont	970	940	750	600	470	375	300	240	200
Max Torque (N-m)	Rated	100	160	200	250	320	330	352	360	420
	Cont	100	190	240	292	363	358	352	360	420
	Int	126	220	280	340	430	448	470	470	548
Max Output (Kw)	Rated	7.7	12.3	12.3	12	12.3	10	9	7	6.5
	Cont	7.7	15	15	14	14	11	9	7	6.6
	Int	9.7	17	17	16	16	14	12	9	12
Max Pressure Drop (Mpa)	Rated	14	14	14	14	14	12	11	8.5	8.5
	Cont	14	17.5	17.5	17.5	16.5	13	11	8.5	8.5
	Int	17.5	20	20	20	20	17.5	14	11.5	11.5
Max Flow (L/min)	Cont	40	60	60	60	60	60	60	60	60
	Int	50	75	75	75	75	75	75	75	75
Weight (Kg)		6.7	6.9	6.9	7.2	7.5	8.0	8.5	9	9.3



Geroler Motor - BMRS Needle Bearings

Standard Model							
Part Number	Displacement	Mount	Shaft	Ports	L	L1	List
BMRS50-H2-K-S-N	50	SAE A 2 Bolt	1" Keyed Shaft	7/8" O-Ring	144	10	550.00
BMRS80-H2-K-S-N	80				150	16	566.00
BMRS100-H2-K-S-N	100				154	20	576.00
BMRS125-H2-K-S-N	125				159	25	596.00
BMRS160-H2-K-S-N	160				165	31.5	612.00
BMRS200-H2-K-S-N	200				174	40	620.00
BMRS250-H2-K-S-N	250				184	50	648.00
BMRS315-H2-K-S-N	315				196	62	656.00
BMRS400-H2-K-S-N	400				208	74	692.00

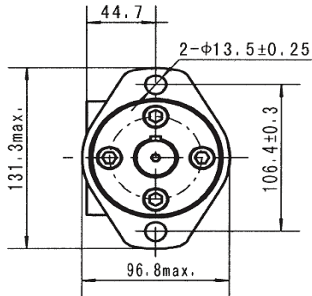
Options		Add to List
Mount Type		
H2	Standard SAE A 2 Bolt	N/C
H4	4 Bolt Square Mount M10	30.00
Shaft Type		
K	Ø 1" Keyed Shaft 25.4 (Woodruff Key 6.35)	N/C
S	6B 1" Ø SAE 6B Splined Shaft	16.00
Seal Kit		
BMRS-SK	Seal Kit	82.00



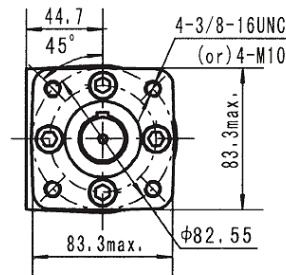
BMRS Ordering Code

Series	Displacement cc/rev	-	Flange	-	Shaft	-	Ports	-	Bearing
BMRS	50	-	H2 Standard SAE A 2 Bolt	-	K Ø 1" Keyed Shaft 25.4 (Woodruff Key 6.35)	-	S 7/8" - 14 O-ring	-	N Radial Force Bearings
	80		H4 4 Bolt Square Mount M10		S 6B 1"Ø SAE 6B Splined Shaft				
	125								
	160								
	200								
	250								
	315								
	400								

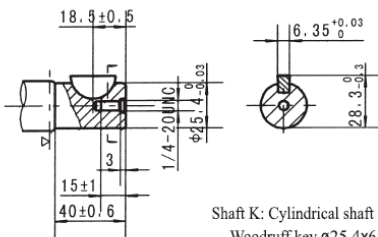




H2 SAE A 2 Bolt Mount

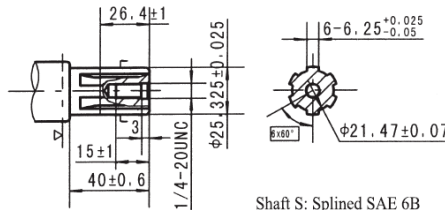


H4 4 Bolt Square Mount



Shaft K: Cylindrical shaft $\phi 25.4$
Woodruff key $\phi 25.4 \times 6.35$

K SAE A 2 Bolt



Shaft S: Splined SAE 6B

S 6B 1" Splined Shaft

Specifications

		BMR50	BMR80	BMR100	BMR125	BMR160	BMR200	BMR250	BMR315	BMR400
Geometric Displacement (cm ³ /rev)		51.3	80.6	100.8	124.9	157.2	199.2	252	314.5	370
Max Speed (rpm)	Rated	755	750	600	475	375	300	240	190	160
	Cont	970	940	750	600	470	375	300	240	200
Max Torque (N-m)	Rated	100	160	200	250	320	330	352	360	420
	Cont	100	190	240	292	363	358	352	360	420
	Int	126	220	280	340	430	448	470	470	548
Max Output (Kw)	Rated	7.7	12.3	12.3	12	12.3	10	9	7	6.5
	Cont	7.7	15	15	14	14	11	9	7	6.6
	Int	9.7	17	17	16	16	14	12	9	12
Max Pressure Drop (Mpa)	Rated	14	14	14	14	14	12	11	8.5	8.5
	Cont	14	17.5	17.5	17.5	16.5	13	11	8.5	8.5
	Int	17.5	20	20	20	20	17.5	14	11.5	11.5
Max Flow (L/min)	Cont	40	60	60	60	60	60	60	60	60
	Int	50	75	75	75	75	75	75	75	75
Weight (Kg)		6.7	6.9	6.9	7.2	7.5	8.0	8.5	9	9.3



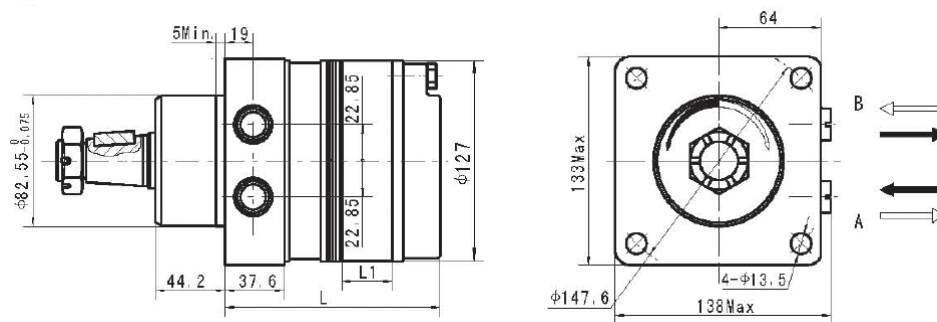
Geroler Motor - BMER

Standard Model							
Part Number	Displacement	Mount	Shaft	Ports	L	L1	List
BMER-2-125-WS-T4	125	Wheel	1:8 Taper	7/8 UNO	119	10.2	TBA
BMER-2-160-WS-T4	160				122	13.5	TBA
BMER-2-200-WS-T4	200				125.5	17	TBA
BMER-2-230-WS-T4	230				128	19.5	TBA
BMER-2-250-WS-T4	250				130.5	22	TBA
BMER-2-300-WS-T4	300				134.5	25.4	TBA
BMER-2-350-WS-T4	350				138	29.5	TBA
BMER-2-375-WS-T4	375				140.5	31.8	TBA
BMER-2-475-WS-T4	475				148	39.4	TBA
BMER-2-540-WS-T4	540				156	47.3	TBA
BMER-2-750-WS-T4	750				176	63.5	TBA

Options		Add to List
Mount Type		
WS	Wheel Mount	N/C
Shaft Type		
T4	Parallel Key	
Seal Kit		
BMER-SK	Seal Kit	TBA

BMER Ordering Code

Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports	
BMER-2	125		WS	Wheel Mount		T4	Ø31.75 Cone Shaft, Parallel Key			7/8 14 Oring
	160									
	200									
	230									
	250									
	300									
	350									
	375									
	475									
	540									
	750									



Specifications

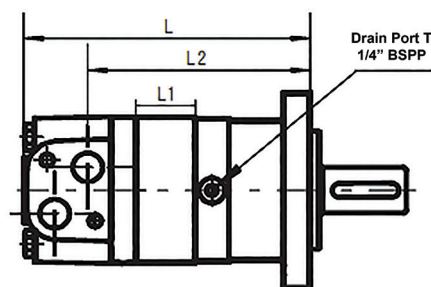
		125	160	200	230	250	300	350	375	475	540	750
Geometric Displacement (cm ³ /rev)		118	156	196	228	257	296	345	371	462	540	745
Max Speed (rpm)	cont.	360	375	330	290	290	250	220	200	160	140	100
	int.	490	470	425	365	350	315	270	240	195	170	120
Max Torque (N-m)	cont.	325	450	530	625	700	810	905	990	1085	980	1050
	int.	380	525	600	710	790	930	1035	1140	1180	1240	1180
	peak.	450	590	750	870	980	1120	1285	1380	1260	1380	1370
Max Output (Kw)	cont.	12.0	15.0	15.5	16.0	17.5	18.0	17.5	16.5	14.5	11.5	8.0
	int.	14.0	17.5	18.0	19.0	20.0	21.0	20.0	19.0	16.5	15.0	10.0
Max Pressure Drop (Mpa)	cont.	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	17.5	14	10.5
	int.	24	24	24	24	24	24	24	24	19	19.5	12
	peak	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	20.5	20.5	14
Max Flow (L/min)	cont.	45	60	70	70	75	80	80	75	75	75	75
	int.	60	75	85	85	90	95	95	90	90	90	90



Geroler Motor - BMSY

Standard Model								
BMSY***-E2-G-D	Displacement	Mount	Shaft	Ports	L	L1	L2	List
BMSY80-E2-G-D	80	SAE A 2 Bolt	1 1/4" Parallel Key	1/2" BSPP	170	16	126.5	834.00
BMSY100-E2-G-D	100				174	20	130.5	844.00
BMSY125-E2-G-D	125				179	25	135.5	852.00
BMSY160-E2-G-D	160				181	27	137.5	862.00
BMSY200-E2-G-D	200				188	34	144.5	870.00
BMSY250-E2-G-D	250				196	42	152.5	906.00
BMSY315-E2-G-D	315				208	54	164.5	976.00
BMSY400-E2-G-D	400				223	69	179.5	1048.00
BMSY475-E2-G-D	475				237	83	193.5	1208.00

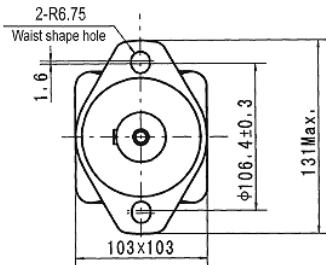
Options		Add to List
Mount Type		
E2	SAE A 2 Bolt Mount	N/C
E4	4 Bolt Square Mount 3/8" UNC	N/C
Shaft Type		
A	Ø 25mm Metric Keyed Shaft 8 x 7 x 32	24.00
B	Ø 32mm Metric Keyed Shaft 10 x 8 x 45	24.00
D	Ø 1" (25.4mm) Keyed Shaft 10 x 8 x 45	24.00
F	Ø 1 1/4" (31.75mm) SAE C 14T Splined Shaft	24.00
G	Ø 1 1/4" (31.75mm) Keyed Shaft 7.96 x 7.96 x 31.75	N/C
Seal Kit		
BMSY-SK	Seal Kit	82.00



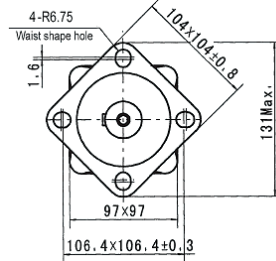
BMSY Ordering Code

Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports	
BMSY	80	-	E2	Standard SAE A 2 Bolt	-	A	25mm Metric Parallel Key 8x7x32	-	D	1/2" BSPP
	100		E4	4 Bolt Square Mount 3/8" UC		B	32mm Metric Parallel Key 10x8x45			
	160					D	1" Keyed Parallel Key 6.35x6.35x25.4			
	200					G	1 1/4" (31.75mm) Parallel Key 7.96x7.96x31.75			
	250					F	SAE C 14T Splined 14-DP12/24			
	315									
	400									
	475									

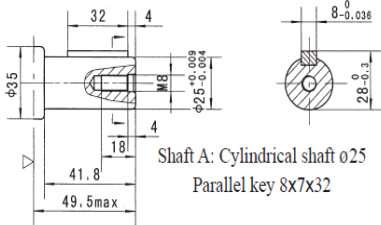




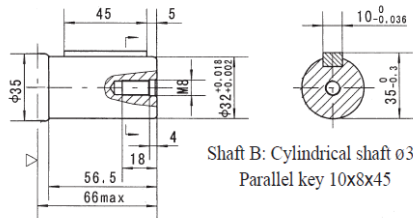
E2 SAE A 2 Bolt Mount



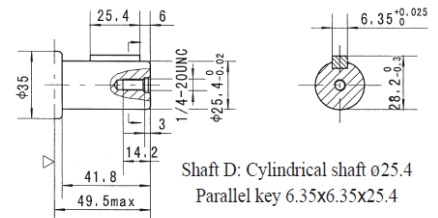
E4 4 Bolt Square Mount 3/8" UNC



Shaft A: Cylindrical shaft ø25
Parallel key 8x7x32



Shaft B: Cylindrical shaft ø32
Parallel key 10x8x45

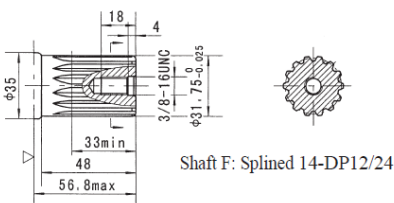


Shaft D: Cylindrical shaft ø25.4
Parallel key 6.35x6.35x25.4

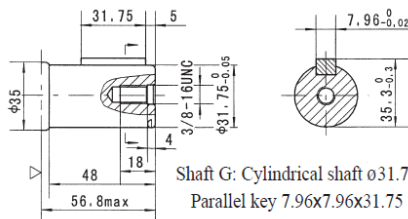
A 25mm Metric Keyed Shaft

B 32mm Metric Keyed Shaft

D 1" (25.4mm) Keyed Shaft



Shaft F: Splined 14-DP12/24



Shaft G: Cylindrical shaft ø31.75
Parallel key 7.96x7.96x31.75

F 1 1/4" SAE C 14T Splined Shaft

G 1 1/4" Keyed Shaft

Specifications

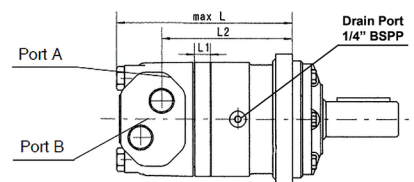
		BMSY80	BMSY100	BMSY125	BMSY160	BMSY200	BMSY250	BMSY315	BMSY400	BMSY475
Displacement (cm ³ /rev)		80.6	100.8	125	154	194	243	311	394	475
Max Speed (rpm)	Cont	800	748	600	470	375	300	240	185	155
	Int	988	900	720	560	450	360	280	225	185
Max Torque (N-m)	Cont	225	290	365	485	586	708	880	880	910
	Int	250	320	400	540	645	806	960	960	960
Max Output (Kw)	Cont	16	18	18	18.1	18.1	18	17	11	9
	Int	20	22	23	25	24	23.8	20.2	12	11
Max Pressure Drop (Mpa)	Cont	20.5	20.5	20.5	21	21	20	20	16	14
	Int	22.5	22.5	22.5	22.5	22.5	22.5	22.5	17.5	15
	Peak	29.5	29.5	29.5	28	27	27	26	21	17.5
Max Flow (L/min)	Cont	65	75	75	75	75	75	75	75	75
	Int	80	90	90	90	90	90	90	90	90
Max Inlet Pressure	Cont	25	25	25	25	25	25	25	25	25
	Int	30	30	30	30	30	30	30	30	30
Weight (Kg)		9.8	10	10.3	10.7	11.1	11.6	12.3	13.2	14.3



Geroler Motor - BMT

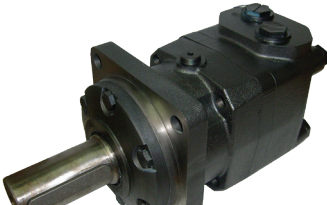
Standard Model								
BMT***-4-M-D-00	Displacement	Mount	Shaft	Ports	L	L1	L2	List
BMT160-4-M-D-00	160	4 Bolt Square Mount	Straight Keyed	3/4" BSPP	193	17	142.5	1532.00
BMT200-4-M-D-00	200				179	21	146.5	1558.00
BMT250-4-M-D-00	250				203	27	152.5	1584.00
BMT315-4-M-D-00	315				210	20	158.5	1624.00
BMT400-4-M-D-00	400				217	27	165.5	1690.00
BMT500-4-M-D-00	500				225	35	173.5	1798.00
BMT630-4-M-D-00	630				237	47	185.5	1930.00
BMT800-4-M-D-00	800				248	58	195.5	1984.00

Options			Add to List
Mount Type			
4	4 Bolt Square Mount		NC
Shaft Type			
M	40mm Straight Keyed Shaft		NC
G	1 1/2" Straight Keyed Shaft		NC
Seal Kit			
BMT-SK	Seal Kit		82.00

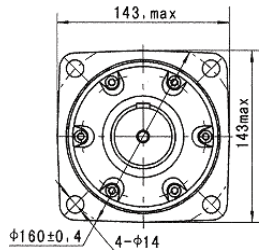
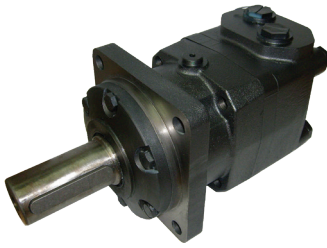


BMT Ordering Code

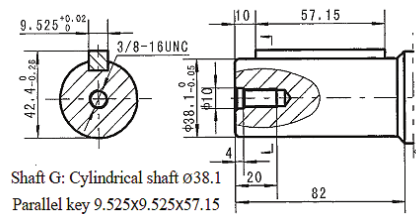
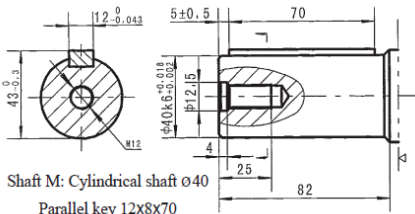
Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports		-	Paint	
BMT	160	-	4	4 Bolt Square Mount	-	M	40mm Straight Keyed Shaft	-	D	3/4" BSPP	-	00	No Paint
	200					G	1 1/2" Straight Keyed Shaft						
	250												
	315												
	400												
	500												
	630												
	800												







4 Bolt Square Mount



M 40mm Straight Keyed Shaft

G 1 1/2" Straight Keyed Shaft

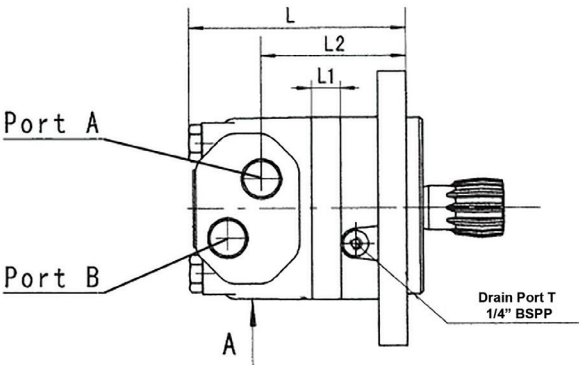
Specifications

		BMT160	BMT200	BMT250	BMT315	BMT400	BMT500	BMT630	BMT800
Geometric Displacement (cm ³ /rev)		161.1	201.4	251.8	326.3	410.9	523.6	629.1	801.8
Max Speed (rpm)	Rated	470	475	381	294	228	183	150	121
	Cont	614	615	495	380	302	237	196	154
	Int	770	743	592	458	364	284	233	185
Max Torque (N-m)	Rated	379	471	582	758	896	1063	1156	1207
	Cont	471	589	727	962	1095	1245	1318	1464
	Int	573	718	888	1154	1269	1409	1498	1520
	Peak	669	838	1036	1346	1450	1643	1618	1665
Max Output (Kw)	Rated	18.7	23.4	23.2	23.3	21.4	20.4	18.2	15.3
	Cont	27.7	34.9	34.5	34.9	31.2	28.8	25.3	22.2
	Int	32	40	40	40	35	35	27.5	26.8
Max Pressure Drop (Mpa)	Rated	16	16	16	16	15	14	12	10.5
	Cont	20	20	20	20	18	16	14	12.5
	Int	24	24	24	24	21	18	16	13
	Peak	28	28	28	28	24	21	19	16
Max Flow (L/Min)	Rated	80	100	100	100	100	100	100	100
	Cont	100	125	125	125	125	125	125	125
	Int	125	150	150	150	150	150	150	150
Max Inlet Pressure	Rated	21	21	21	21	21	21	21	21
	Cont	21	21	21	21	21	21	21	21
	Int	25	25	25	25	25	25	25	25
	Peak	30	30	30	30	30	30	30	30
Weight (Kg)		19.5	20	20.4	21	22	23	24	25



Geroler Motor - BMTS

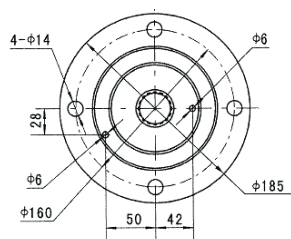
Standard Model								
BMTS***-D-D	Displacement	Mount	Shaft	Ports	L	L1	L2	List
BMTS160-D-D	160	4x14 160pcd Circle Flange	Short Shaft 16-DP 12/24	3/4" BSPP	148	17	95.5	TBA
BMTS200-D-D	200				152	21	100.5	TBA
BMTS250-D-D	250				157	14	109	TBA
BMTS315-D-D	315				163	20	115	TBA
BMTS400-D-D	400				170	27	122	TBA
BMTS500-D-D	500				178	35	130	TBA
BMTS630-D-D	630				190	47	142	TBA
BMTS800-D-D	800				201	58	153	TBA



BMTS Ordering Code

Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports		-
BMTS	160	-	D	4x14 160pcd Circle Flange	-	-	Short Shaft 16-DP 12/24	-	D	3/4" BSPP	-
	200										
	250										
	315										
	400										
	500										
	630										
	800										





D 4X14 160pcd Circle Flange

Specifications

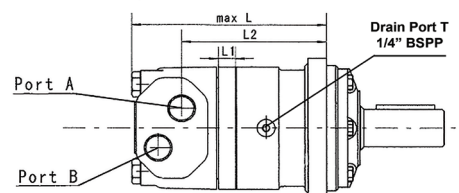
		BMT160	BMT200	BMT250	BMT315	BMT400	BMT500	BMT630	BMT800
Geometric Displacement (cm ³ /rev)		161.1	201.4	251.8	326.3	410.9	523.6	629.1	801.8
Max Speed (rpm)	Rated	470	475	381	294	228	183	150	121
	Cont	614	615	495	380	302	237	196	154
	Int	770	743	592	458	364	284	233	185
Max Torque (N-m)	Rated	379	471	582	758	896	1063	1156	1207
	Cont	471	589	727	962	1095	1245	1318	1464
	Int	573	718	888	1154	1269	1409	1498	1520
	Peak	669	838	1036	1346	1450	1643	1618	1665
Max Output (Kw)	Rated	18.7	23.4	23.2	23.3	21.4	20.4	18.2	15.3
	Cont	27.7	34.9	34.5	34.9	31.2	28.8	25.3	22.2
	Int	32	40	40	40	35	35	27.5	26.8
Max Pressure Drop (Mpa)	Rated	16	16	16	16	15	14	12	10.5
	Cont	20	20	20	20	18	16	14	12.5
	Int	24	24	24	24	21	18	16	13
	Peak	28	28	28	28	24	21	19	16
Max Flow (L/Min)	Rated	80	100	100	100	100	100	100	100
	Cont	100	125	125	125	125	125	125	125
	Int	125	150	150	150	150	150	150	150
Max Inlet Pressure	Rated	21	21	21	21	21	21	21	21
	Cont	21	21	21	21	21	21	21	21
	Int	25	25	25	25	25	25	25	25
	Peak	30	30	30	30	30	30	30	30
Weight (Kg)		19.5	20	20.4	21	22	23	24	25



Geroler Motor - BMV

Standard Model								
Part Number	Displacement	Mount	Shaft	Ports	L	L1	L2	List
BMV315-4-A-D-00	315	4 Bolt Square Mount	Straight Keyed	1" BSPP	217	27	161.5	1890.00
BMV400-4-A-D-00	400				224	34	168.5	1970.00
BMV500-4-A-D-00	500				232	42	176.5	2076.00
BMV630-4-A-D-00	630				244	54	188.5	2330.00
BMV800-4-A-D-00	800				255	65	199.5	2476.00

Options		
Seal Kit		
BMV-SK	Seal Kit	90.00

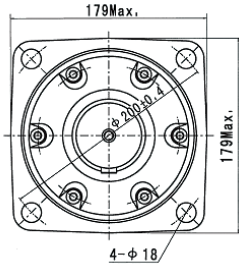
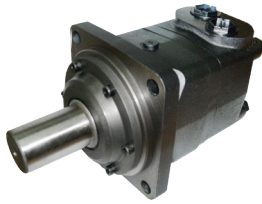


BMV Ordering Code

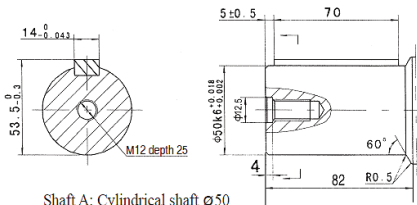
Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports		-	Paint	
BMV	315	-	4	4 Bolt Square Mount	-	A	50mm Straight Keyed Shaft	-	D	1" BSPP	-	00	No Paint
	400												
	500												
	630												
	800												







4 4 Bolt Square Mount



Shaft A: Cylindrical shaft $\phi 50$
Parallel key 14x9x70

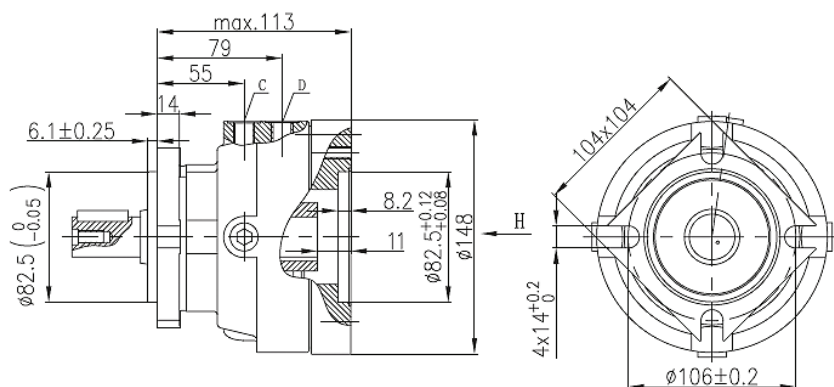
A 50mm Straight Keyed Shaft

Specifications

		BMV315	BMV400	BMV500	BMV630	BMV800
Geometric Displacement (cm ³ /rev)		333	419	518	666	801
Max Speed (rpm)	Rated	335	270	215	170	140
	Cont	446	354	386	223	185
	Int	649	526	425	331	275
Max Torque (N-m)	Rated	730	1020	1210	1422	1590
	Cont	925	1220	1450	1640	1810
	Int	1100	1439	1780	2000	2110
	Peak	1349	1700	2121	2338	2470
Max Output (Kw)	Rated	25.6	28.8	27.2	25.3	23.3
	Cont	43	45.2	58.6	38.3	35.1
	Int	52	52	52	46	40
Max Pressure Drop (Mpa)	Rated	16	16	16	16	14
	Cont	20	20	20	18	16
	Int	24	24	24	21	18
	Peak	28	28	28	24	21
Max Flow (L/Min)	Rated	110	110	110	110	110
	Cont	150	150	150	150	150
	Int	225	225	225	225	225
Max Inlet Pressure	Rated	21	21	21	21	21
	Cont	21	21	21	21	21
	Int	25	25	25	25	25
	Peak	30	30	30	30	30
Weight (Kg)		31.8	32.6	33.5	34.9	36.5



Model	Input Shaft	Output Shaft	Torque	Max Pressure	List
BK2-1-430-E-B	1" 6B Spline	32mm Str Keyed	410-450 Nm	300 Bar	776.00
BK2-1-430-E-C	1" 6B Spline	1" Str Keyed			776.00
BK2-1-430-C-C	1" Str Keyed	1" Str Keyed			776.00
BK2-1-430-G-G	1 1/4" Str Keyed	1 1/4" Str Keyed			766.00



C Drain Port - G1/4" 9mm Depth

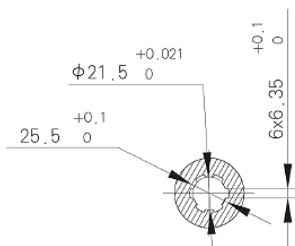
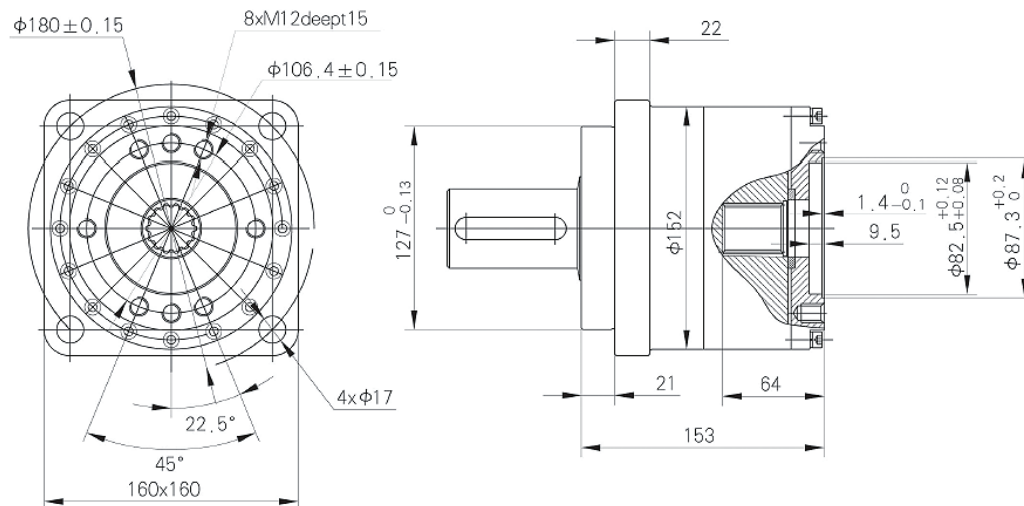
D Brake Release Port - G1/4" 9mm Depth

Specifications	BK2-1
Min Static Torque Nm	410 - 450
Min Opening Pressure MPa	1.7-2.3
Max Opening Pressure MPa	30
Min Oil Quantity for Brake Releasing cm ³	7-8
Oil Volume cm ³	50-120
Max Pressure in Drain Space MPa	0.05
Weight Kg	9

*Static torque is obtained at 0 MPa working pressure

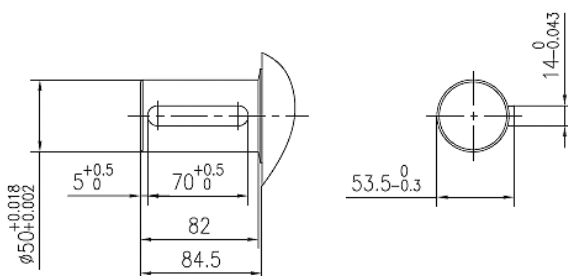


Model	Input Shaft	Output Shaft	Max Torque	Ratio	List
HGB3.65EA	1" 6B Splined	50mm Str Keyed	2000 Nm	3.65:1	1598.00



Input Hole E

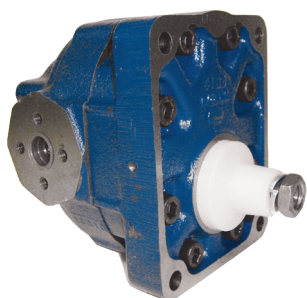
Shaft A





Group 3 Bi-Directional Gear Motor
Cast Iron Gear Motor with Group 3.5 Flange
Screen Motors

Part Number	cc/rev	Shaft	Ports	Case Drain	List
030W0MD64G564XR0BN	64cc	30mm Straight Keyed	1" BSPP	3/8" BSPP	1743.00



Group 3 Left Hand Gear Motor
Cast Iron Gear Motor
Milk Tanker Motor

Part Number	cc/rev	Shaft	Ports	Case Drain	List
03MW003500S	35cc	1:8 Tapered Keyed Shaft	Flanged Ports	No Case Drain	1185.00



SAE A Mount
Left Hand
Milk Tanker Motor

Part Number	cc/rev	Shaft	Ports	List
MZ2CG25C438S	25cc	1:8 Tapered Shaft	UNO Ring Ports	632.00



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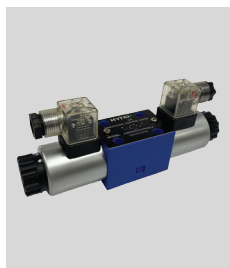


Timalco Hydraulics





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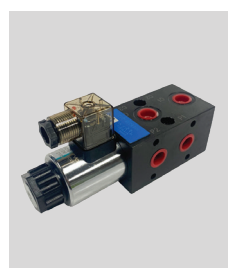
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Cetop 3 & 5 Soft Switch
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6 Port Solenoid Selector
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Cetop 3 FWS Manual Lever
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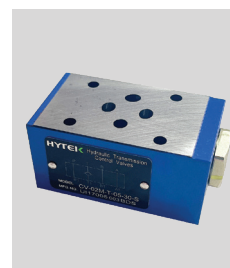
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2 Position Cetop 3 (NG6) Solenoid Valves w/ Single Coils

Each Valve is Supplied with LED Din Plugs and Bolts



Symbol	Part Number	@ v - 41mm ² /s and t = 50°C		Voltage	List
		Switching Power Limits Max Flow @ 200 bar	Approx Pressure Drop at 30LPM		
2 Position Open Crossover	4WE6C60/EG12N9K4ZSLS	70 LPM	3 Bar	12VDC	173.00
	4WE6C60/EG24N9K4ZSLS			24VDC	
	4WE6C60/ERAC220N9K4Z5LS			220VAC	
2 Position Open Crossover	4WE6X60/EG12N9K4Z5LS	70 LPM	3 Bar	12VDC	173.00
	4WE6X60/EG24N9K4Z5LS			24VDC	
	4WE6X60/ERAC220N9K4Z5LS			220VAC	
2 Position Closed Crossover	4WE6D60/EG12N9K4Z5LS	70 LPM	3 Bar	12VDC	173.00
	4WE6D60/EG24N9K4Z5LS			24VDC	
	4WE6D60/ERAC110N9K4Z5LS			110VAC	
	4WE6D60/ERAC220N9K4Z5LS			220VAC	
2 Position Closed Crossover	4WE6D60/OFEG24N9K4Z5LS	70 LPM	3 Bar	24VDC Detent	253.00
	4WE6D60/OFERAC220N9K4Z5LS			220VAC Detent	
2 Position Closed Crossover	4WE6Y60/EG12N9K4Z5LS	70 LPM	3 Bar	12VDC	173.00
	4WE6Y60/EG24N9K4Z5LS			24VDC	
	4WE6Y60/ERAC110N9K4Z5LS			110VAC	
	4WE6Y60/ERAC220N9K4Z5LS			220VAC	
	4WE6EA60/EG12N9K4Z5LS	70 LPM	3 Bar	12VDC	173.00
	4WE6EA60/EG24N9K4Z5LS			24VDC	
	4WE6EA60/ERAC220N9K4Z5LS			220VAC	
	4WE6GA60/EG12N9K4Z5LS	50 LPM	5 Bar	12VDC	173.00
	4WE6GA60/EG24N9K4Z5LS			24VDC	
	4WE6GA60/ERAC220N9K4Z5LS			220VAC	
	4WE6HA60/EG12N9K4Z5LS	50 LPM	3 Bar	12VDC	173.00
	4WE6HA60/EG24N9K4Z5LS			24VDC	
	4WE6HA60/ERAC220N9K4Z5LS			220VAC	
	4WE6JA60/EG12N9K4Z5LS	80 LPM	3 Bar	12VDC	173.00
	4WE6JA60/EG24N9K4Z5LS			24VDC	
	4WE6JA60/ERAC220N9K4Z5LS			220VAC	

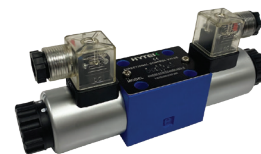
The switching power limits given are for featuring two flow directions. (e.g. from P to A and simultaneous return flow from B to T). Due to the flow forces active within the valves, the permitted power limit may be considerably less where there is only one direction of flow. The power limit was determined using solenoids at their operating temperature, 10% under voltage and with no preloading of the tank.

Note: Refer to technical data sheet for precise specifications. Copies can be supplied upon request.



3 Position Cetop 3 (NG6) Solenoid Valves w/ Dual Coils

Each Valve is Supplied with LED Din Plugs and Bolts



Symbol	Part Number	@ v - 41mm ² /s and t = 50°C		Voltage	List
		Switching Power Limits Max Flow @ 200 bar	Approx Pressure Drop at 30LPM		
	4WE6E60/EG12N9K4Z5LS	80 LPM	3 Bar	12VDC	253.00
	4WE6E60/EG24N9K4Z5LS			24VDC	
	4WE6E60/ERAC110N9K4Z5LS			110VAC	
	4WE6E60/ERAC220N9K4Z5LS			220VAC	
	4WE6G60/EG12N9K4Z5LS	50 LPM	5 Bar	12VDC	253.00
	4WE6G60/EG24N9K4Z5LS			24VDC	
	4WE6G60/ERAC110N9K4Z5LS			110VAC	
	4WE6G60/ERAC220N9K4Z5LS			220VAC	
	4WE6H60/EG12N9K4Z5LS	50 LPM	3 Bar	12VDC	253.00
	4WE6H60/EG24N9K4Z5LS			24VDC	
	4WE6H60/ERAC110N9K4Z5LS			110VAC	
	4WE6H60/ERAC220N9K4Z5LS			220VAC	
	4WE6J60/EG12N9K4Z5LS	80 LPM	3 Bar	12VDC	253.00
	4WE6J60/EG24N9K4Z5LS			24VDC	
	4WE6J60/ERAC110N9K4Z5LS			110VAC	
	4WE6J60/ERAC220N9K4Z5LS			220VAC	

The switching power limits given are for featuring two flow directions. (e.g. from P to A and simultaneous return flow from B to T). Due to the flow forces active within the valves the permitted power limit may be considerably less where there is only one direction of flow. The power limit was determined using solenoids at their operating temperature, 10% under voltage and with no preloading of the tank.

Note: Refer to technical datasheet for precise specifications. Copies can be supplied upon request.

Specifications			4WE-6	4WE-10
Weight	Single Solenoid Valve	Kg	1.65	4.80
	Valve with 2 Solenoids	Kg	2.25	6.15
Operating Pressure Ports A, B, P		MPA	35	31.5
Port T		MPA	Up to 21	
Flow Max (see Power Limit Charts)		L/min	Up to 80 L/min	Up to 120 L/min
Ambient Temperature		Max	Up to 50°C	
Fluid Temperature Range		°C	-30 to + 80 (NBR Seals)	
Viscosity Range		mm ² /s	2.8 to 500	
Degree of Fluid Contamination			Maximum permissible degree of contamination of fluid is to NAS 1638 class 9. We therefore recommend a minimum retention of 10.	

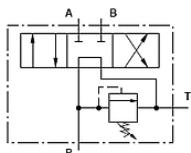
Cetop 3 Lever Operated Spring Centered or Detented



Symbol	Part Number	@ v - 41mm ² /s and t = 50°C		Spool Control	List
		Max Flow	Approx Pressure Drop at 30LPM		
2 Position Closed Crossover	4WMM6D	60 LPM	3 Bar	Spring Return	235.00
	4WMM6E	60 LPM	3 Bar	Spring Return	235.00
	4WMM6G	40 LPM	5 Bar	Spring Return	235.00
	4WMM6H	60 LPM	3 Bar	Spring Return	235.00
	4WMM6J	60 LPM	3 Bar	Spring Return	235.00
2 Position Closed Crossover	4WMM6D-F	60 LPM	3 Bar	2 Pos Detent	255.00
	4WMM6E-F	60 LPM	3 Bar	3 Pos Detent	255.00
	4WMM6G-F	40 LPM	5 Bar	3 Pos Detent	255.00
	4WMMH-F	60 LPM	3 Bar	3 Pos Detent	255.00
	4WMMJ-F	60 LPM	3 Bar	3 Pos Detent	255.00

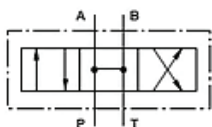
Also available in CBF - DC3's, refer to next page.

Compact Manual Control Valves with Relief, 3/8" BSPP Ports



Symbol	Part Number	Control	Max Flow	Max Pressure	List
	DM1A1	3 Pos Spring Centred	30 LPM	350 Bar	278.00
	DM1A2	3 Pos Spring Centred			278.00
	DM1A3	3 Pos Spring Centred			278.00
	DM1D1	3 Pos Detent			278.00
	DM1D2	3 Pos Detent			278.00
	DM1D3	3 Pos Detent			278.00
	DM1Q2	2 Pos Detent			278.00

Cetop 3 (NG6) Cetop Mount



Symbol	Part Number	Control	Max Flow	Max Pressure	List
	DC3A1	3 Pos Spring Centred	30 LPM	350 Bar	413.00
	DC3A2	3 Pos Spring Centred			413.00
	DC3A3	3 Pos Spring Centred			413.00
	DC3D1	3 Pos Detent			413.00
	DC3D3	3 Pos Detent			413.00
	DC3Q2	2 Pos Detent			413.00
	DC3R2	2 Pos Spring Offset			453.00

Subplates

Part Number	Material	Ports	Description	List
THSPC3SA	Alloy	3/8"	Subplate Side Ports A, B, P, T	73.00
THSPC3BA			Subplate Rear Ports A, B, P, T	73.00
BEC3VLP4002			Rear P & T, Side A & B with Relief	264.00
BEC3VLP40RFP50			Subplate with Relief & Priority Flow	689.00

Multi Station Manifolds

Part Number	Material	P & T	A & B	Description	List
THMC3P1AC	Alloy	1/2"	3/8"	Manifold Single Station with Relief Cavity	116.00
THMC3P2AC				2 Station	167.00
THMC3P3AC				3 Station	226.00
THMC3P4AC				4 Station	285.00
THMC3P5AC				5 Station	344.00
THMC3P6AC				6 Station	403.00

Bolts

Part Number	List
M5X45 SHCS	2.00
M5X50 SHCS	2.00
M5X70 SHCS	4.00
M5X80 SHCS	5.00
M5X90 SHCS	9.00
M5X110 SHCS	11.00
M5X130 SHCS	14.00
M5X140 SHCS	14.00
M5X180 SHCS	12.00

Coils

Part Number	Volt	List
4WE6A-D12	12VDC	59.00
4WE6A-D24	24VDC	59.00
4WE6A-D99	110VDC	59.00
4WE6A-D198	240VDC	59.00
4WE6-NUT		15.00

DIN Plugs

Part Number	Description	List
18209N	Din Plug - Black	5.00
18209G	Din Plug - Grey	5.00
18209-10-50V-S	12V or 24V LED & Suppressor	22.00
18209-12V	12V LED	22.00
18209-24V	24V LED	22.00
18209-110V	110V LED	22.00
18209-240V	240V LED	22.00
18209-DMR	Din Plug with Diode 10-50VDC	22.00
18209-110RAC	Rectifier 110V	43.00
18209-240RAC	Rectifier 240V	43.00



More Subplates and Manifolds available
in Section 4



2 Position Cetop 5 (NG10) Solenoid Valves w/ Single Coils

Each Valve is Supplied with LED Din Plugs and Bolts



Symbol	Part Number	@ v - 41mm ² /s and t = 50°C		Voltage	List
		Switching Power Limits Max Flow @ 200 bar	Approx Pressure Drop at 30LPM		
2 Position Open Crossover	4WE10C30/CG12N9K4Z5LS	120 LPM	2.5 Bar	12VDC	280.00
	4WE10C30/CG24N9K4Z5LS			24VDC	
	4WE10C30/CR220N9K4Z5LS			220 RAC	
	4WE10C30/CW220N9K4Z5LS1			220 AC	
2 Position Closed Crossover	4WE10D30/CG12N9K4Z5LS	120 LPM	2.5 Bar	12VDC	280.00
	4WE10D30/CG24N9K4Z5LS			24VDC	
	4WE10D30/CR220N9K4Z5LS			220 RAC	
	4WE10D30/CW220N9K4Z5LS1			220 AC	
	4WE10EA30/CG12N9K4Z5LS	120 LPM	2.5 Bar	12VDC	280.00
	4WE10EA30/CG24N9K4Z5LS			24VDC	
	4WE10EA30/CRAC220N9K4Z5LS			220 RAC	
	4WE10GA30/CG12N9K4Z5LS	75 LPM	5 Bar	12VDC	280.00
	4WE10GA30/CG24N9K4Z5LS			24VDC	
	4WE10GA30/CRAC220N9K4Z5LS			220 RAC	
	4WE10HA30/CG12N9K4Z5LS	100 LPM	3 Bar	12VDC	280.00
	4WE10HA30/CG24N9K4Z5LS			24VDC	
	4WE10HA30/CRAC220N9K4Z5LS			220 RAC	
	4WE10JA30/CG12N9K4Z5LS	115 LPM	2 Bar	12VDC	280.00
	4WE10JA30/CG24N9K4Z5LS			24VDC	
	4WE10JA30/CRAC110N9K4Z5LS			110 RAC	
	4WE10JA30/CRAC220N9K4Z5LS			220 RAC	

The switching power limits given are for featuring two flow directions. (e.g. from P to A and simultaneous return flow from B to T). Due to the flow forces active within the valves the permitted power limit may be considerably less where there is only one direction of flow. The power limit was determined using solenoids at their operating temperature, 10% under voltage and with no preloading of the tank.

Note: Refer to technical datasheet for precise specifications. Copies can be supplied upon request.

3 Position Cetop 5 (NG10) Solenoid Valves w/ Dual Coils

Each Valve is Supplied with LED Din Plugs and Bolts



Symbol	Part Number	@ v - 41mm ² /s and t = 50°C		Voltage	List
		Switching Power Limits Max Flow @ 200 bar	Approx Pressure Drop at 30LPM		
	4WE10E30/CGN9K4Z5LS	120 LPM	2.5 Bar	12VDC	387.00
	4WE10E30/CG24N9K4Z5LS			24VDC	
	4WE10E30/CRAC110N9K4Z5LS			110 RAC	
	4WE10E30/CRAC220N9K4Z5LS			220 RAC	
	4WE10G30/CG12N9K4Z5LS	75 LPM	5 Bar	12VDC	387.00
	4WE10G30/CG24N9K4Z5LS			24VDC	
	4WE10G30/CR110N9K4Z5LS			110 RAC	
	4WE10G30/CR220N9K4Z5LS			220 RAC	
	4WE10G30/CW110N9K4Z5LS1			110 AC	
	4WE10G30/CW220N9K4Z5LS1			220 AC	
	4WE10H30/CG12N9K4Z5LS	100 LPM	3 Bar	12VDC	387.00
	4WE10H30/CG24N9K4Z5LS			24VDC	
	4WE10H30/CRAC220N9K4Z5LS			220 RAC	
	4WE10J30/CG12N9K4Z5LS	115 LPM	2 Bar	12VDC	387.00
	4WE10J30/CG24N9K4Z5LS			24VDC	
	4WE10J30/CRAC110N9K4Z5LS			110 RAC	
	4WE10J30/CRAC220N9K4Z5LS			220 RAC	

The switching power limits given are for featuring two flow directions. (e.g. from P to A and simultaneous return flow from B to T). Due to the flow forces active within the valves the permitted power limit may be considerably less where there is only one direction of flow. The power limit was determined using solenoids at their operating temperature, 10% under voltage and with no preloading of the tank.

Note: Refer to technical datasheet for precise specifications. Copies can be supplied upon request.

Specifications			4WE-6	4WE-10
Weight	Single Solenoid Valve	Kg	1.65	4.80
	Valve with 2 Solenoids	Kg	2.25	6.15
Operating Pressure Ports A, B, P		MPA	35	31.5
Port T		MPA	Up to 21	
Flow Max (see Power Limit Charts)		L/min	Up to 80 L/min	Up to 120 L/min
Ambient Temperature		Max	Up to 50°C	
Fluid Temperature Range		°C	-30 to + 80 (NBR Seals)	
Viscosity Range		mm ² /s	2.8 to 500	
Degree of Fluid Contamination			Maximum permissible degree of contamination of fluid is to NAS 1638 class 9. We therefore recommend a minimum retention of 10.	



Subplates

Part Number	Material	Ports	Description	List
THSPC5SA	Alloy	1/2"	Subplate Side Ports A, B, P & T	117.00
THSPC5BA			Subplate Rear Ports A, B, P & T	117.00
BEC5VLP8002			Rear P & T, Side A & B with Relief	372.00

Multi Station Manifolds

Part Number	Material	P & T	A & B	Description	List
THMC5P1AC	Alloy	3/4"	1/2"	Manifold Single Station with Relief Cavity	182.00
THMC5P2AC				2 Station	293.00
THMC5P3AC				3 Station	412.00
THMC5P4AC				4 Station	532.00
THMC5P5AC				5 Station	682.00
THMC5P6AC				6 Station	775.00



More Subplates and Manifolds available
in Section 4

Bolts

Part Number	List
M6X40 SHCS (STD)	2.00
M6X50 SHCS	2.00
M6X70 SHCS	4.00
M6X80 SHCS	5.00
M6X90 SHCS	8.00
M6X140 SHCS	16.00
M6X150 SHCS	16.00



Coils

Part Number	Description	List
4WE10A-D12	12VDC Coil	118.00
4WE10A-D24	24VDC Coil	118.00
4WE10A-D99	110VDC Coil	118.00
4WE10-A-D198	220VDC Coil	118.00
4WE10-NUT		15.00

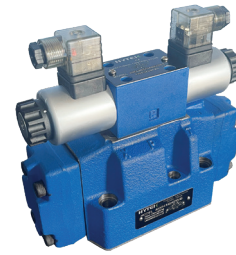


DIN Plugs

Part Number	Description	List
18209N	Din Plug - Black	5.00
18209G	Din Plug - Black	5.00
18209-10-50V-S	12V or 24V LED & Suppressor	22.00
18290-12V	12V LED	22.00
18209-24V	24V LED	22.00
18209-110V	110V LED	22.00
18209-240V	240V LED	22.00
18209-DMR	Din Plug with Diode 10-50VDC	22.00
18209-110RAC	Rectifier 110V	43.00
18209-240RAC	Rectifier 240V	43.00

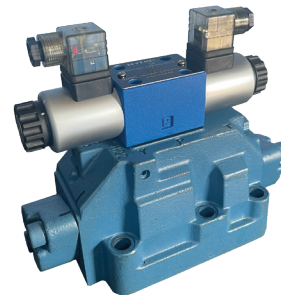


4WE16 Solenoid Operated Directional Valve Cetop 7 (NG16) Industrial Valves



Symbol	@ v - 41mm ² /s and t = 50°C		Kg	Part Number	Voltage	List
	Switching Power Limits Max Flow @ 210 bar	Approx Pressure Drop at 200LPM				
	260 LPM	5 Bar	8.3	4WEH16D-A-(voltage)-6X	D12	786.00
	300 LPM	4 Bar	8.3	4WEH16EA-A-(voltage)-6X		786.00
	240 LPM	7 Bar	8.3	4WEH16GA-A-(voltage)-6X		786.00
	300 LPM	5 Bar	8.3	4WEH16HA-A-(voltage)-6X	D24	786.00
	300 LPM	5 Bar	8.3	4WEH16JA-A-(voltage)-6X		786.00
	300 LPM	4 Bar	8.6	4WEH16E-A-(voltage)-6X	R110	866.00
	240 LPM	7 Bar	8.6	4WEH16G-A-(voltage)-6X		866.00
	300 LPM	5 Bar	8.6	4WEH16H-A-(voltage)-6X	R220	866.00
	300 LPM	5 Bar	8.6	4WEH16J-A-(voltage)-6X		866.00
Pilot Pressure Insert				4WH16PI		87.00

4WE22 Solenoid Operated Directional Valve Cetop 8 (NG22) Industrial Valves



Symbol	@ v - 41mm ² /s and t = 50°C		Kg	Part Number	Voltage	List
	Switching Power Limits Max Flow @ 210 bar	Approx Pressure drop at 200LPM				
	450 LPM	5Bar	11.5	4WEH22D-A-(voltage)-6X	D12	866.00
	450 LPM	6 Bar	11.5	4WEH22EA-A-(voltage)-6X		866.00
	250 LPM	8 Bar	11.5	4WEH25GA-A-(voltage)-6X		866.00
	300 LPM	5 Bar	11.5	4WEH22HA-A-(voltage)-6X	D24	866.00
	450 LPM	5 Bar	11.5	4WEH22JA-A-(voltage)-6X		866.00
	450 LPM	6 Bar	11.9	4WEH22E-A-(voltage)-6X	R110	945.00
	250 LPM	8 Bar	11.9	4WEH25G-A-(voltage)-6X		945.00
	300 LPM	5 Bar	11.9	4WEH22H-A-(voltage)-6X	R220	945.00
	450 LPM	5 Bar	11.9	4WEH22J-A-(voltage)-6X		945.00

**Subplates**

Part Number	Material	Ports	Description	List
THSPC7SS	Steel	1" and 1/4" X & Y	Subplate Side Ports A, B, P, T, X & Y	240.00
THSPC7BS			Subplate Rear Ports A, B, P, T, X & Y	233.00

**Manifolds**

Part Number	Material	P, A & B	T	X & Y	Description	List
THMC7P1SC	Steel	3/4"	1"	1/4" & 3/8"	Manifold Single Station with Relief Cavity	337.00
THMC7P2SC					2 Station	577.00
THMC7P3SC					3 Station	TBA
LPSRV2-10	Pilot Operated Relief Valve					Add 87.00
THRC-PLUG	Relief Valve Cavity Plug					10.00

Soft Switch Valves

Cetop 3 (NG6) 4WE6S Solenoid Operated Directional Valves with Soft Switching



Symbol	Part Number	@ v - 41mm ² /s and t = 50°C		Voltage	List
		Switching Power Limits Max Flow @ 200 bar	Approx Pressure Drop at 30LPM		
	4WE6SE60/EG12N9K4Z5LS	80 LPM	3 Bar	12VDC	306.00
	4WE6SE60/EG24N9K4Z5LS			24VDC	
	4WE6SG60/EG12N9K4Z5LS	50 LPM	5 Bar	12VDC	306.00
	4WE6SG60/EG24N9K4Z5LS			24VDC	
	4WE6SG60/ERAC220N9K4Z5LS			220RAC	
	4WE6SH60/EG12N9K4Z5LS	50 LPM	3 Bar	12VDC	306.00
	4WE6SH60/EG24N9K4Z5LS			24VDC	
	4WE6SH60/ERAC220N9K4Z5LS			220RAC	
	4WE6SJ60/EG12N9K4Z5LS	80 LPM	3 Bar	12VDC	306.00
	4WE6SJ60/EG24N9K4Z5LS			24VDC	
	4WE6SJ60/ERAC220N9K4Z5LS			220RAC	

Cetop 5 (NG10) 4WE10S Solenoid Operated Directional Valves with Soft Switching

Symbol	Part Number	@ v - 41mm ² /s and t = 50°C		Voltage	List
		Switching Power Limits Max Flow @ 200 bar	Approx Pressure Drop at 30LPM		
	4WE10SE30/CRAC220N9K4Z5LS	120 LPM	2.5 Bar	220RAC	453.00
	4WE10SG30/CG12N9K4Z5LS	75 LPM	5 Bar	12VDC	453.00
	4WE10SG30/CG24N9K4Z5LS			24VDC	
	4WE10SG30/CRAC220N9K4Z5LS			220RAC	
	4WE10SH30/CG12N9K4Z5LS	100 LPM	3 Bar	12VDC	453.00
	4WE10SH30/CG24N9K4Z5LS			24VDC	
	4WE10SH30/CRAC220N9K4Z5LS			220RAC	
	4WE10SHA30/CG24N9K4Z5LS			24VDC	347.00
	4WE10SJ30/CG24N9K4Z5LS	120 LPM	2.5 Bar	24VDC	453.00



Single or Stackable 6 Port Selector Valves

3/8" or 1/2" BSPP Ports

12 & 24 VDC

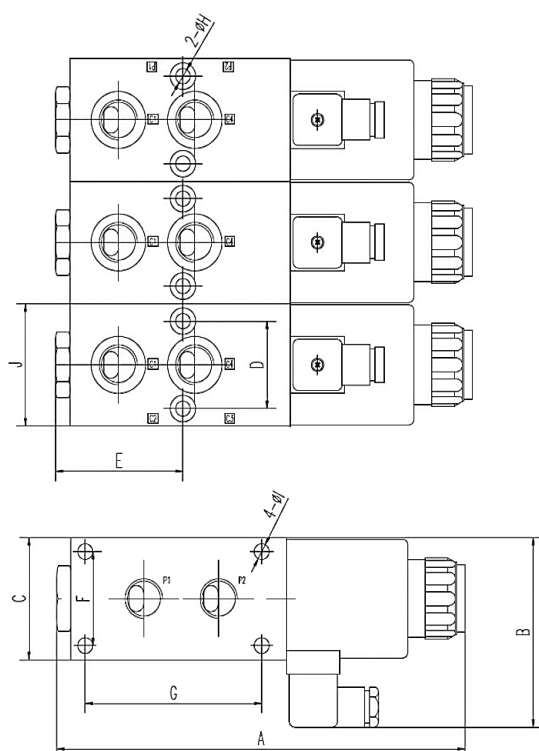


Part Number	Ports	Max Flow	Max Pressure	Voltage	List
HYE6238-D12	3/8" BSPP	40 LPM	250 Bar	12 VDC	291.00
HYE6238-D24	3/8" BSPP	40 LPM	250 Bar	24 VDC	291.00
HYE6212-D12	1/2" BSPP	60 LPM	250 Bar	12 VDC	327.00
HYE6212-D24	1/2" BSPP	60 LPM	250 Bar	24 VDC	327.00

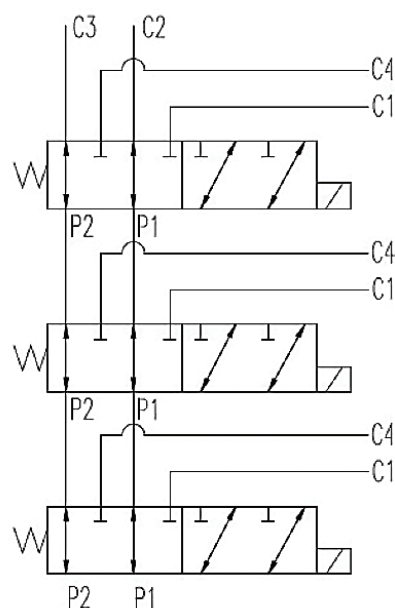
Specifications

	Max Pressure	Max Flow Rate	Hydraulic Fluid	Fluid Temperature Range	Recommended Viscosity
E6238	250 Bar	40 LPM	Mineral Oil, Phosphate Ester	-20 ~ 80°C	10 ~ 400 ² mm
E6212		60 LPM			

Dimensions



Spool Function



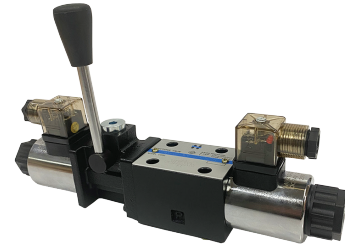
Dimensions

	A	B	C	D	E	F	G	H	I	J
E6238	175.2	84	52	36	57.5	38	42	6.4	6	52
E6212	229	100.6	65	46	70	50	99	8	8.4	65

Solenoid Valves with a Manual Lever

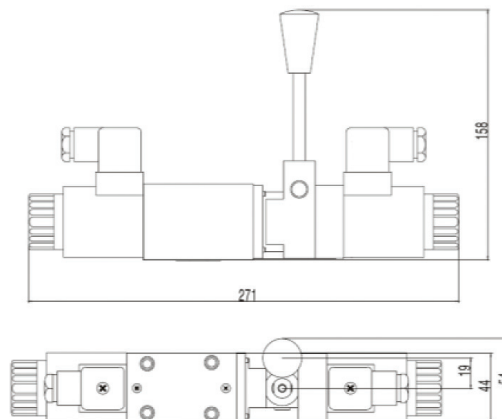
Cetop 3 (NG6)

Each Valve is Supplied with High Powered Solenoid Coils, Din Plugs and Bolts



Symbol	Part Number	Maximum Pressure	Maximum Pressure	Voltage	List
	FWS-02-3C2-D12Z5L/50	80 LPM	350 Bar	12VDC	315.00
	FWS-02-3C2-D24Z5L/50			24VDC	
	FWS-02-3C2-B220Z5L/50			240RAC	
	FWS-02-3C3-D12Z5L/50			12VDC	315.00
	FWS-02-3C3-D24Z5L/50			24VDC	
	FWS-02-3C3-B220Z5L/50			240RAC	
	FWS-02-3C4-D12Z5L/50			12VDC	315.00
	FWS-02-3C4-D24Z5L/50			24VDC	
	FWS-02-3C4-D220Z5L/50			240V	
	FWS-02-3C6-D12Z5L/50			12VDC	315.00
	FWS-02-3C6-D24Z5L/50			24VDC	
	FWS-02-3C6-B220Z5L/50			240RAC	

Specifications		Cetop 3 (02)
Pressure Range (MPa)	Oil Port P, A, B	35
Max Flow Rate (L/min)		80
Installation		Any, Horizontal Installation is Recommended
Working Fluid		Mineral Hydraulic Oil Phosphate Ester Hydraulic Oil
Fluid Temperature (°C)		-20 ~ 70
Fluid Viscosity (mm ² /s)		2.8 ~ 100
Working Voltage	DC	12VDC, 24VDC, 240 RAC
	AC	110, 220
Protection Grade		IP65
Filtration		NAS1638 Class 9 Recommended Filtration Precision Min $\beta_{10} \geq 75_0$





Proportional Throttle Valves **Cetop 3 (NG6)**

Symbol	Part Number	Nom Flow @ 10Bar rP	List
	BFW-02-2B2B-07-50	7 LPM	872.00
	BFW-02-2B2B-15-50	15 LPM	872.00
	BFW-02-2B2B-17-50	17 LPM	872.00
	BFW-02-2B2B-30-50	26 LPM	872.00



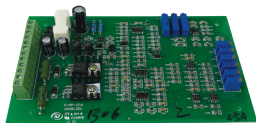
Proportional Throttle Valves (Flow Control)

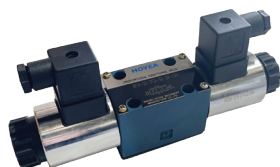
Symbol	Part Number	Nom Flow @ 10Bar rP	List
	BFW-03-2B2B-30-50	30 LPM	1114.00
	BFW-03-2B2B-50-50	50 LPM	1114.00
	BFW-03-2B2B-60-50	60 LPM	1114.00



Amplifier Cards and Drivers

Part Number	Description	Type	List
VPC00	Din Plug Connector Type (1 per Solenoid)	1	579.00
H-AP-206-2.5u	Card Type	2	351.00
HY-BFDM	Digital Electronic Module Type (Panel Mount) 1 per Valve	3	460.00



Proportional Directional Valve (Closed Centre) **Cetop 3 (NG6)**

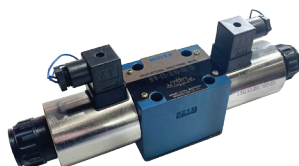
Symbol	Part Number	Nom Flow @ 10Bar rP	List
	BFW-02-3C2-07-50	7 LPM	944.00
	BFW-02-3C2-17-50	17 LPM	944.00
	BFW-02-3C2-30-50	26 LPM	944.00

Proportional Directional Valve (Closed Centre) **Cetop 5 (NG10)**

Symbol	Part Number	Nom Flow @ 10Bar rP	List
	BFW-03-3C2-30-50	30 LPM	1206.00
	BFW-03-3C2-50-50	50 LPM	1206.00
	BFW-03-3C2-60-50	60 LPM	1206.00

Proportional Directional Valve (A & B to T De-energised) **Cetop 3 (NG6)**

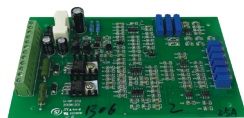
Symbol	Part Number	Nom Flow @ 10Bar rP	List
	BFW-02-3C40-07-50	7 LPM	944.00
	BFW-02-3C40-17-50	17 LPM	944.00
	BFW-02-3C40-30-50	26 LPM	944.00

Proportional Directional Valve (A & B to T De-energised) **Cetop 5 (NG10)**

Symbol	Part Number	Nom Flow @ 10Bar rP	List
	BFW-03-3C40-30-50	30 LPM	1206.00
	BFW-03-3C40-50-50	50 LPM	1206.00
	BFW-03-3C40-60-50	60 LPM	1206.00



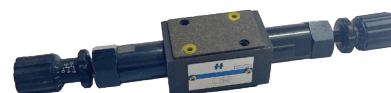
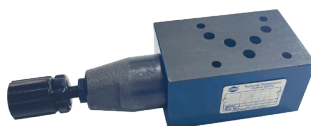
Amplifier Cards and Drivers



Part Number	Description	Type	List
VPC00	Din Plug Connector Type (1 per Solenoid)	1	579.00
H-AP-206-2.5u	Card Type	2	351.00
HY-BFDM	Digital Electronic Module Type (Panel Mount) 1 per Valve	3	460.00



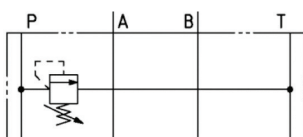
Modular Relief Valves



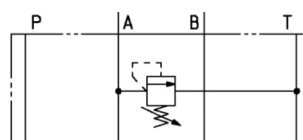
Part Number	Description	P/ADJ Range	Max Flow	Bolts +	Kg	List
Cetop 3						
RV-02M-P-1-B	P Port to T	7 - 70 Bar	35 LPM	40mm	1.2	186.00
RV-02M-P-2-B	P Port to T	35 - 140 Bar	35 LPM	40mm	1.2	186.00
RV-02M-P-3-B	P Port to T	70 - 210 Bar	35 LPM	40mm	1.2	186.00
RV-02M-A-1-B	A Port to T	7 - 70 Bar	35 LPM	40mm	1.2	186.00
RV-02M-A-2-B	A Port to T	35 - 140 Bar	35 LPM	40mm	1.2	186.00
RV-02M-A-3-B	A Port to T	70 - 210 Bar	35 LPM	40mm	1.2	186.00
RV-02M-B-1-B	B Port to T	7 - 70 Bar	35 LPM	40mm	1.2	186.00
RV-02M-B-2-B	B Port to T	35 - 140 Bar	35 LPM	40mm	1.2	186.00
RV-02M-B-3-B	B Port to T	70 - 210 Bar	35 LPM	40mm	1.2	186.00
DY-02-W-21	A & B Port to T	210 Bar	35 LPM	40mm	2.2	240.00
DY-02-W-31.5	A & B Port to T	315 Bar	35 LPM	40mm	2.2	240.00



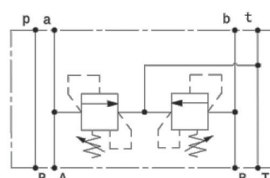
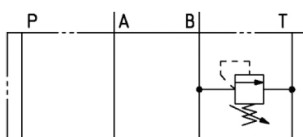
VLP40DFC302	A & B to T	250 Bar	40 LPM			351.00
VLP40DIFC302	Crossline (A to B) (B to A)	250 Bar	40 LPM	40mm		388.00
Cetop 5						
RV-03M-P-3-A	P Port to T Knob on A	7 - 210 Bar	70 LPM	55mm	2.7	253.00
RV-03M-P-3-B	P Port to T Knob on B	70 - 210 BAR	70 LPM	55mm	2.7	253.00



P Port to T



A Port to T

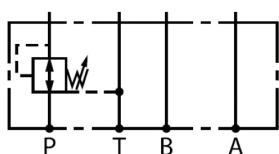


Modular Reducing Valves

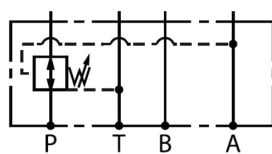


Part Number	Description	P/ADJ Range	Max Flow	Bolts +	Kg	List
Cetop 3						
BRV-02M-P-1-B	Pilot from P Port	7 - 70 Bar	35 LPM	40mm	1.2	173.00
BRV-02M-P-2-B		35 - 140 Bar				173.00
BRV-02M-P-3-B		70 - 210 Bar				173.00
BRV-02M-A-1-B	Pilot from A Port	7 - 70 Bar			1.2	173.00
BRV-02M-A-2-B		35 - 140 Bar				173.00
BRV-02M-A-3-B		70 - 210 Bar				173.00
BRV-02M-B-1-B	Pilot from B Port	7 - 70 Bar			1.3	173.00
BRV-02M-B-2-B		35 - 140 Bar				173.00
BRV-02M-B-3-B		70 - 210 Bar				173.00
Cetop 5						
BRV-03M-P-1-B	Pilot from P Port	7 - 70 Bar	50 LPM	55mm	2.8	253.00
BRV-03M-P-3-B		70 - 210 Bar				253.00
BRV-02-05-3 Spring	Spring to Suit BRV	70 - 210 Bar				11.00
BRV-03M-P1 Spring	Spring to Suit BRV03M-P1	7 - 70 Bar				14.00

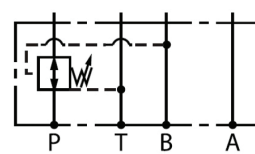
Other Pressure Ranges Available on Request



Pilot from P Port

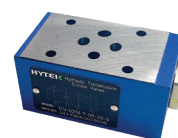


Pilot from A Port

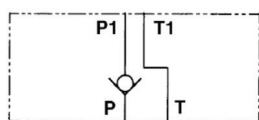


Pilot from B Port

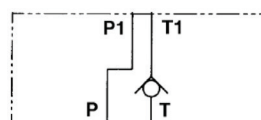
Modular Check Valves



Part Number	Description	Crack Press	Max Flow	Bolts +	Kg	List
Cetop 3						
CV-02M-P-05	P Port	.35 Bar	35 LPM	40mm	1.1	112.00
CV-02M-T-05	T Port	.35 Bar	35 LPM	40mm	1.1	112.00
Cetop 5						
CV-03M-P-05	P Port	3.5 Bar	70 LPM	55mm	2.8	214.00
CV-03M-T-05	T Port	3.5 Bar	70 LPM	55mm	2.8	214.00



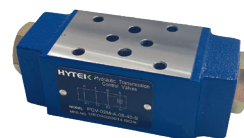
Check in P
B Port to T



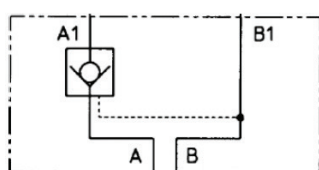
Check in T
A & B Ports to T



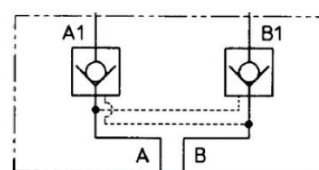
Modular Pilot Operated Check Valves



Part Number	Description	Crack Press	Max Flow	Bolts +	Kg	List
Cetop 3						
PCV-02M-A-05	Check on A	.35	35 LPM	40mm	1.1	173.00
PCV-02M-B-05	Check on B	.35	35 LPM	40mm	1.1	173.00
PCV-02M-W-05	Check on A & B	.35	35 LPM	40mm	1.1	185.00
Cetop 5						
PCV-03M-W-05	Check on A & B	3.5	70 LPM	55mm	2.8	214.00

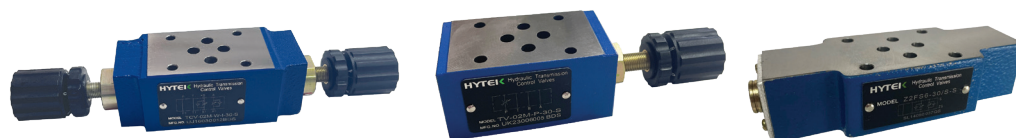


Single Lock Valve

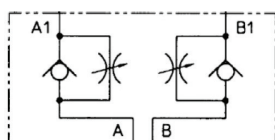


Dual Lock Valve

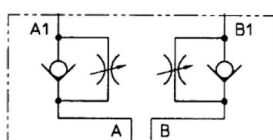
Modular Flow Control Valves



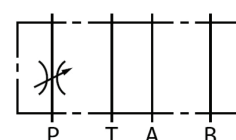
Part Number	Description	Max Flow	Bolts +	Kg	List
Cetop 3					
TCV-02M-W-I	Dual Flow Control (In to Actuator)	35 LPM	40mm	1.3	173.00
TCV-02M-W-O	Dual Flow Control (Out of Actuator)	35 LPM	40mm	1.3	173.00
STD-VU-F-C3-A	Dual Flow Control (Out of Actuator)	40 LPM	43mm	0.60	230.00
TV-02M-P	Flow Control on P	35 LPM	40mm	1.2	173.00
Z2FS6-30-S/S	Flow Control on A & B	80 LPM	80mm	0.95	242.00
RFP50FC301	Priority Flow Control	30 LPM	90mm	0.70	559.00
RFP50FC3VU02A	Priority Flow Control	30 LPM	90mm	0.70	596.00
Cetop 5					
TCV-03M-W-I	Flow Control (In to Actuator)	70 LPM	55mm	2.8	214.00
TCV-03M-W-O	Flow Control (Out of Actuator)	70 LPM	55mm	2.8	214.00



Meter Into Actuator



Meter Out of Actuator



Flow Control on P



Modular Overcentre Valves (Counterbalance)



Part Number	Description	P/ADJ Range	Ratio	Max Flow	Bolts +	List
Cetop 3						
OVCSEFC3A01	Single, Locked in A	5 - 200 Bar	4.25:1	35 LPM	40mm	437.00
OVCSEFC3A02	Single, Locked in A	40 - 350 Bar	4.25:1	35 LPM	40mm	437.00
OVCSEFC3B01	Single, Locked in B	5 - 200 Bar	4.25:1	35 LPM	40mm	437.00
OVCSEFC3B02	Single, Locked in B	40 - 350 Bar	4.25:1	35 LPM	40mm	437.00
OVCDEFC301	Dual	5 - 200 Bar	4.25:1	35 LPM	40mm	640.00
OVCDEFC302	Dual	40 - 350 Bar	4.25:1	35 LPM	40mm	640.00
Cetop 5						
OVCSEFC5A02	Single, Locked in A	40-350 Bar	4.25:1	80 LPM	70mm	TBA
OVCSEFC5B02	Single, Locked in B	40-350 Bar	4.25:1	80 LPM	70mm	TBA
OVCDEFC502	Dual	40-350 Bar	4.25:1	80 LPM	70mm	906.00
SCV-03-A-1-A	Counterbalance on A	7-70 Bar		70 LPM	70mm	546.00





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Cetop 7 & 8 Manifolds & Subplates	120



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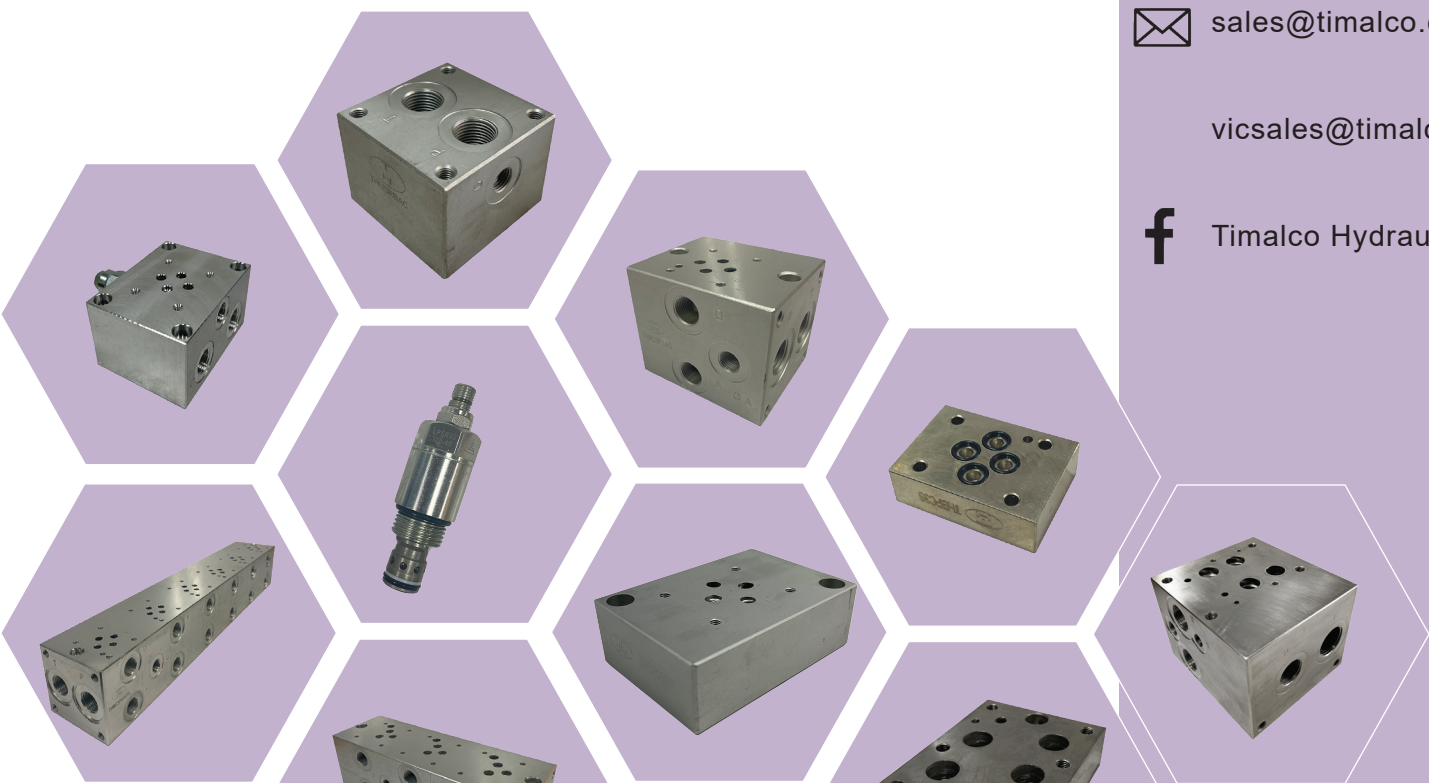


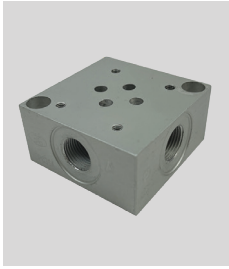
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Timalco Hydraulics





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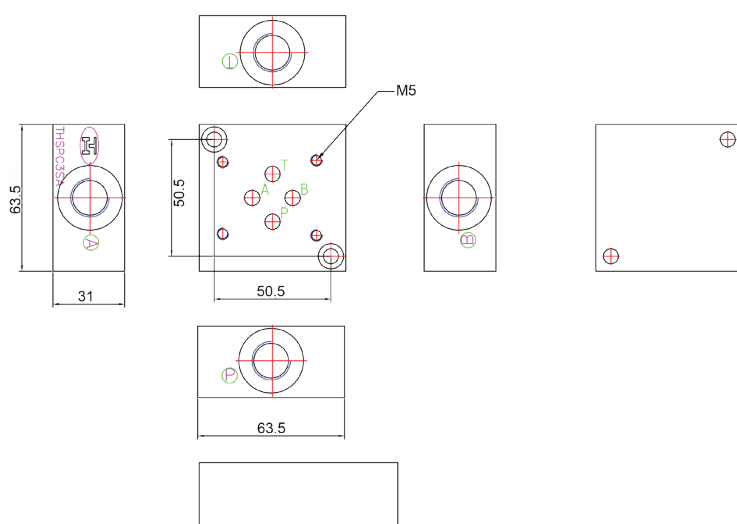


Cetop 3 Subplates				
Part Number	Material	Ports	Description	List
THSPC3SA	Alloy	3/8" BSPP	Side Ports A,B,P&T	73.00
THSPC3BA	Alloy	3/8" BSPP	Bottom Ports A,B,P&T	73.00
THSPC3SS	Steel	3/8" BSPP	Side Ports A,B,P&T Steel	109.00
THSPC3BS	Steel	3/8" BSPP	Bottom Ports A,B,P&T Steel	109.00
BEC3VLP4002	Alloy	3/8" BSPP	Bottom P&T, Side A&B with Relief	264.00



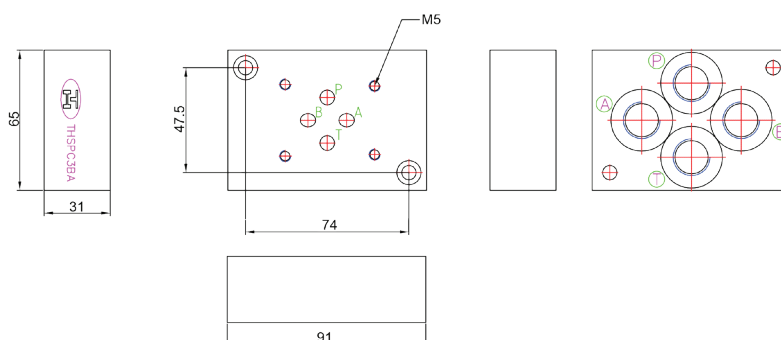
THSPC3SA
THSPC3SS

Side Ported



THSPC3BA
THSPC3BS

Bottom Ported



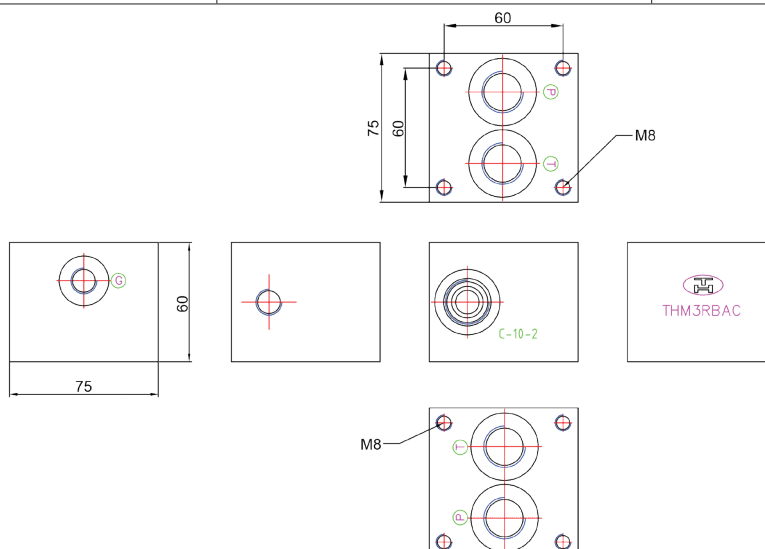
Tank Manifold				
Part Number	Material	Ports	Description	List
THM3RBAC	Alloy	1/2" BSPP	Tank Manifold with C10-2 Cavity	116.00



P & T Ports 1/2" BSPP
with C10-2 Cavity

G Port - 1/4" BSPP

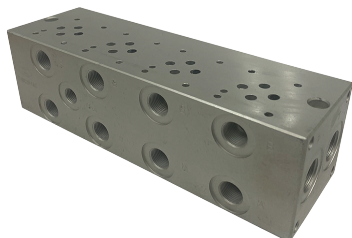
Relief or Unloading
Valve





Alloy Parallel with Plugged Relief Cavity

Part Number	Ports		Description	L Dim mm	L1 Dim mm	List
	P & T	A & B				
THMC3P1AC	1/2" BSPP	3/8" BSPP	1 Station	90	74	116.00
THMC3P2AC	1/2" BSPP	3/8" BSPP	2 Station	137	121	167.00
THMC3P3AC	1/2" BSPP	3/8" BSPP	3 Station	192	176	226.00
THMC3P4AC	1/2" BSPP	3/8" BSPP	4 Station	247	231	285.00
THMC3P5AC	1/2" BSPP	3/8" BSPP	5 Station	302	286	344.00
THMC3P6AC	1/2" BSPP	3/8" BSPP	6 Station	357	341	403.00
THMC3P6ACXL	1/2" BSPP	3/8" BSPP	6 Station	457	441	700.00
LPSRV2-10	Pilot Operated Relief Valve					Add 87.00



Steel with Plugged Relief Cavity

Part Number	Ports		Description	L Dim mm	L1 Dim mm	List
	P & T	A & B				
THMC3P1SC	1/2" BSPP	3/8" BSPP	1 Station	90	74	154.00
THMC3P2SC	1/2" BSPP	3/8" BSPP	2 Station	137	121	218.00
THMC3P3SC	1/2" BSPP	3/8" BSPP	3 Station	192	176	291.00
THMC3P4SC	1/2" BSPP	3/8" BSPP	4 Station	247	231	365.00
THMC3P5SC	1/2" BSPP	3/8" BSPP	5 Station	302	286	438.00
THMC3P6SC	1/2" BSPP	3/8" BSPP	6 Station	357	341	512.00
LPSRV2-10	Pilot Operated Relief Valve					Add 87.00

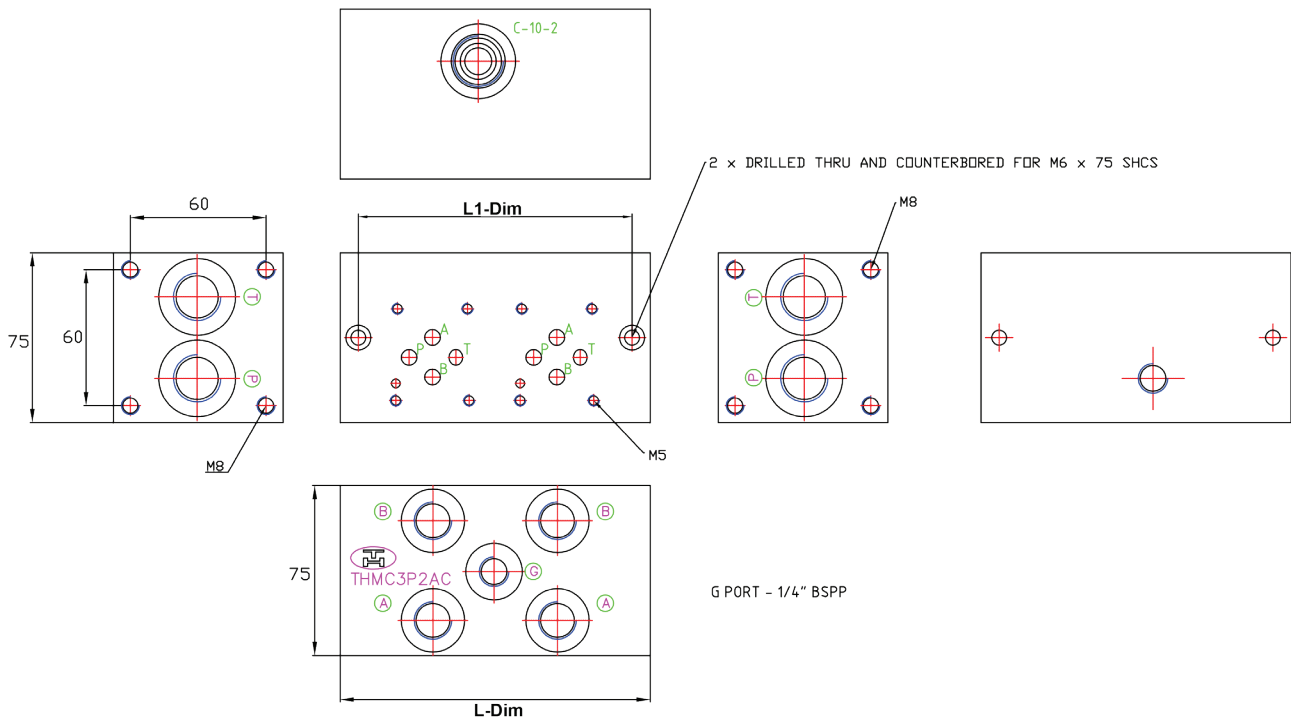




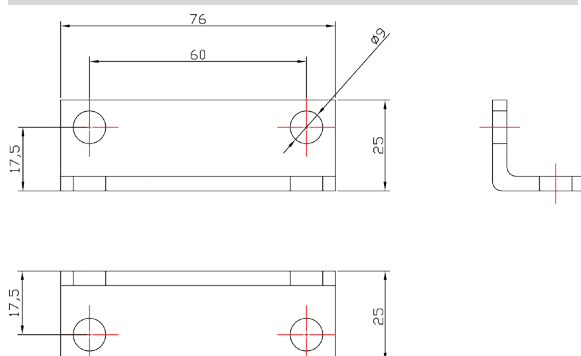
Series with Plugged Relief Cavity						
Part Number	Ports		Description	L Dim mm	L1 Dim mm	List
	P & T	A & B				
THMC3S2AC	1/2" BSPP	3/8" BSPP	2 Station	137	121	184.00
THMC3S3AC	1/2" BSPP	3/8" BSPP	3 Station	192	176	240.00
THMC3S4AC	1/2" BSPP	3/8" BSPP	4 Station	247	231	299.00
THMC3S5AC	1/2" BSPP	3/8" BSPP	5 Station	302	286	383.00
THMC3S6AC	1/2" BSPP	3/8" BSPP	6 Station	357	341	456.00
LPSRV2-10	Pilot Operated Relief Valve					Add 87.00



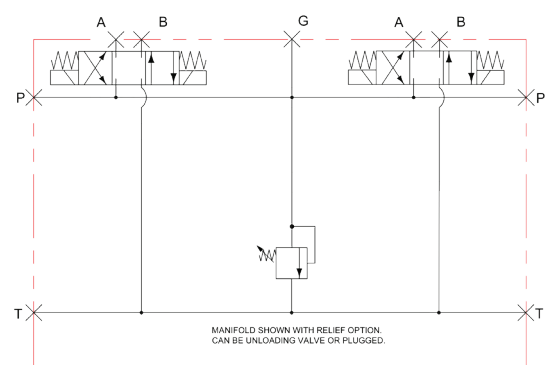
Cetop 3 Manifold Dimensions



Cetop 3 Foot Bracket



Manifold Schematic

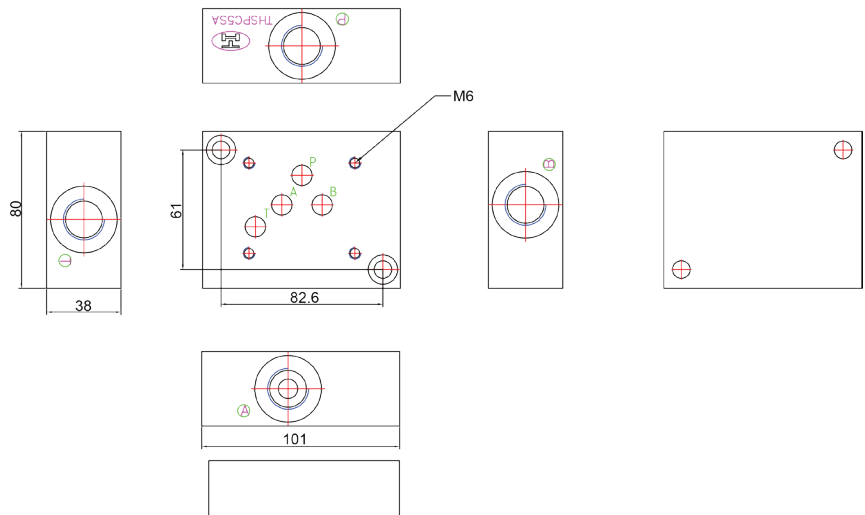




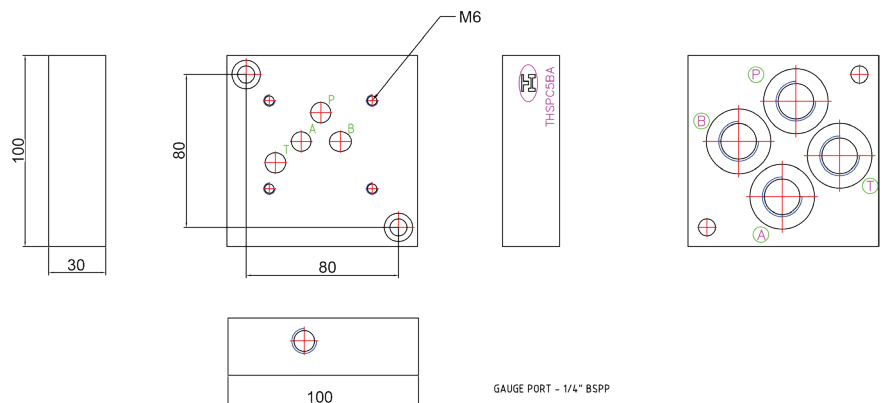
Cetop 5 Subplates				
Part Number	Material	Ports	Description	List
THSPC5SA	Alloy	1/2" BSPP	Side Ports A,B,P&T	117.00
THSPC5BA	Alloy	1/2" BSPP	Bottom Ports A,B,P&T	117.00
THSPC5SS	Steel	1/2" BSPP	Side Ports A,B,P&T Steel	150.00
THSPC5BS	Steel	1/2" BSPP	Bottom Ports A,B,P&T Steel	150.00
BEC5VLP801202	Alloy	1/2" BSPP	Bottom P&T, Side A&B with Relief	372.00

THSPC5SA
THSPC5SS

Side Ported

THSPC5BA
THSPC5BS

Bottom Ported

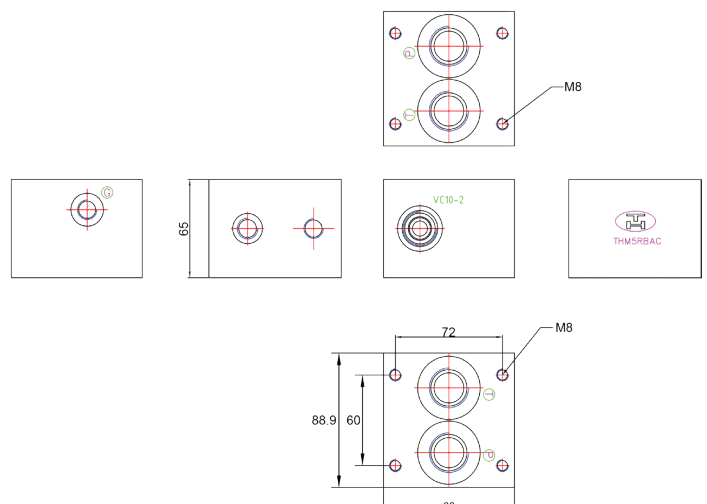


GAUGE PORT - 1/4" BSPP

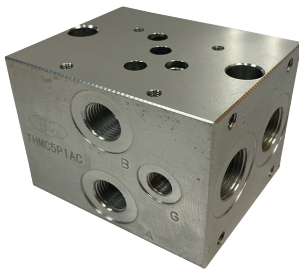
Tank Manifold				
Part Number	Material	Ports	Description	List
THM5RBAC	Alloy	3/4" BSPP	Tank Manifold with C10-2 Cavity	158.00

P & T Ports 3/4" BSPP
with C10-2 Cavity

G Port - 1/4" BSPP

Relief or Unloading
Valve

Alloy Parallel with Plugged Relief Cavity						
Part Number	Ports		Description	L Dim mm	L1 Dim mm	List
	P & T	A & B				
THMC5P1AC	3/4" BSPP	1/2" BSPP	1 Station	108	90	182.00
THMC5P2AC	3/4" BSPP	1/2" BSPP	2 Station	191	173	293.00
THMC5P3AC	3/4" BSPP	1/2" BSPP	3 Station	273	255	412.00
THMC5P4AC	3/4" BSPP	1/2" BSPP	4 Station	355	337	532.00
THMC5P5AC	3/4" BSPP	1/2" BSPP	5 Station	437	419	682.00
THMC5P6AC	3/4" BSPP	1/2" BSPP	6 Station	519	501	775.00
LPSRV2-10	Pilot Operated Relief Valve					Add 87.00



Steel Parallel with Plugged Relief Cavity						
Part Number	Ports		Description	L Dim mm	L1 Dim mm	List
	P & T	A & B				
THMC5P1SC	3/4" BSPP	1/2" BSPP	1 Station	108	90	237.00
THMC5P2SC	3/4" BSPP	1/2" BSPP	2 Station	191	173	392.00
THMC5P3SC	3/4" BSPP	1/2" BSPP	3 Station	273	255	545.00
THMC5P4SC	3/4" BSPP	1/2" BSPP	4 Station	355	337	677.00
THMC5P5SC	3/4" BSPP	1/2" BSPP	5 Station	437	419	789.00
THMC5P6SC	3/4" BSPP	1/2" BSPP	6 Station	519	501	920.00
LPSRV2-10	Pilot Operated Relief Valve					Add 87.00



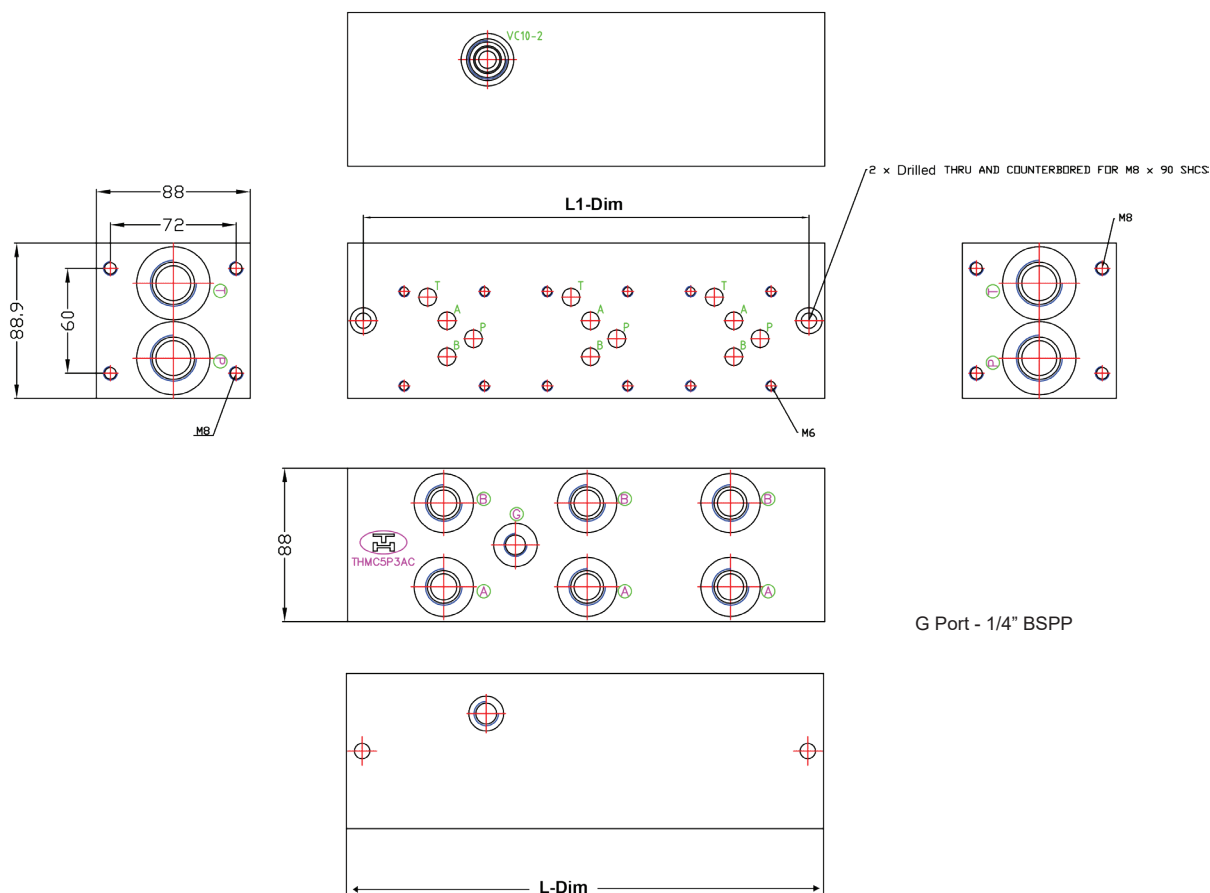


Alloy Series with Plugged Relief Cavity

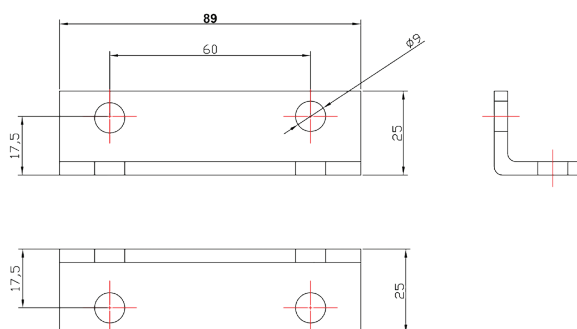
Part Number	Ports		Description	L Dim mm	L1 Dim mm	List
	P & T	A & B				
THMC5S2AC	3/4" BSPP	1/2" BSPP	2 Station	191	173	303.00
THMC5S3AC	3/4" BSPP	1/2" BSPP	3 Station	273	255	428.00
THMC5S4AC	3/4" BSPP	1/2" BSPP	4 Station	355	337	555.00
LPSRV2-10	Pilot Operated Relief Valve					Add 87.00



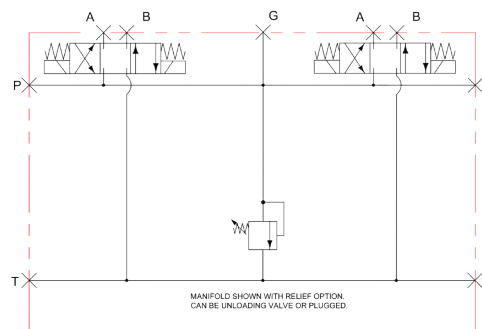
Cetop 5 Manifold Dimensions



Cetop 5 Foot Bracket



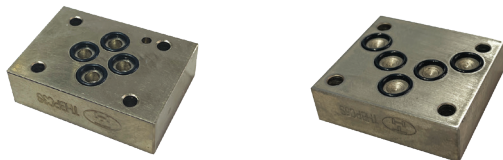
Manifold Schematic





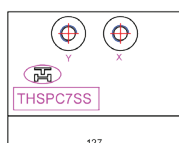
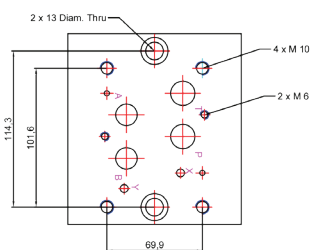
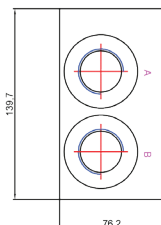
Cetop 3 & 5 Blanking Plates

Part Number	Description	List
THBPC3S	Cetop 3 Blanking Plate (all ports blocked)	39.00
THBPC5S	Cetop 5 Blanking Plate (all ports blocked)	53.00

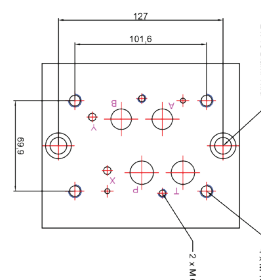
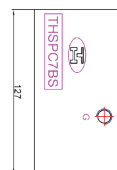
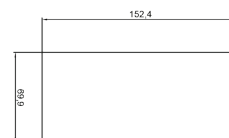


Steel Cetop 7 Subplates

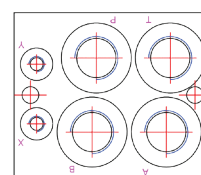
Part Number	Ports P, T, A & B	Ports X & Y	Description	List
THSPC7SS	1" BSPP	1/4" BSPP	Side Ports	240.00
THSPC7BS	1" BSPP	1/4" BSPP	Bottom Ports	233.00

THSPC7SS
Side Ported

A & B Ports - 1" BSPP
P & T Ports - 1" BSPP
X & Y Ports - 1/4" BSPP

THSPC7BS
Bottom Ported

A & B Ports - 1" BSPP
P & T Ports - 1" BSPP
X & Y Ports - 1/4" BSPP
G Port - 1/4" BSPP



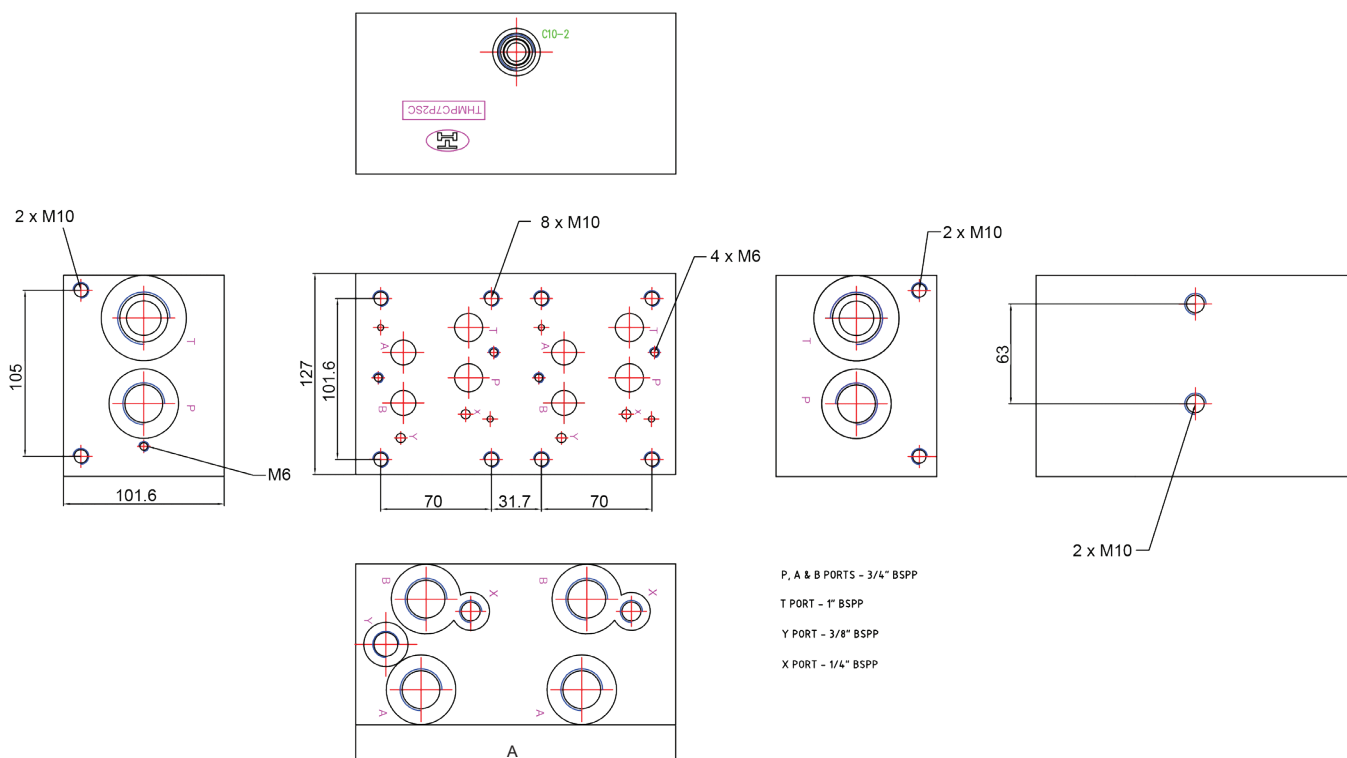


Steel Cetop 7 Manifolds

Part Number	Ports				Description	A Dim mm	List
	P A & B	T	X	Y			
THMC7P1SC	3/4" BSPP	1" BSPP	1/4" BSPP	3/8" BSPP	Manifold 1 Station	101.6	337.00
THMC7P2SC	3/4" BSPP	1" BSPP	1/4" BSPP	3/8" BSPP	Manifold 2 Stations	203.2	577.00
THMC7P3SC	3/4" BSPP	1" BSPP	1/4" BSPP	3/8" BSPP	Manifold 3 Stations	304.8	TBA
LPSRV2-10	Relief Valve C10-2 Cav						Add 87.00



Cetop 7 Manifold Dimensions



Steel Cetop 8 Subplates

Part Number	Ports P, T, A & B	Ports X & Y	Description	List
THSPC8BS	1 1/4" BSPP	1/4" BSPP	Bottom Ports	255.00



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DCV40 Mobile Directional Valves	124
DCV60A Mobile Directional Valves	126
DCV100 Mobile Directional Valves	128
DCV150 Mobile Directional Valves	130
DCV200 Mobile Directional Vales	132



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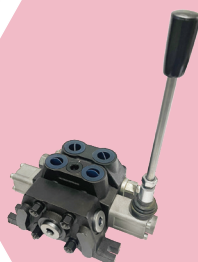
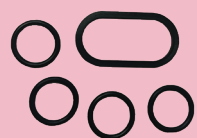


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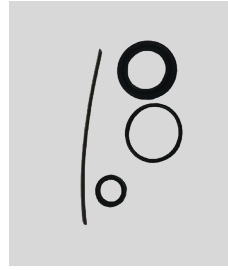




DCV20 Mobile Directional
Valves
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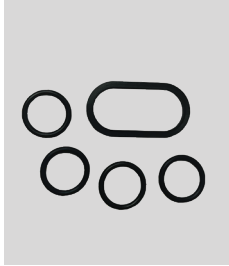
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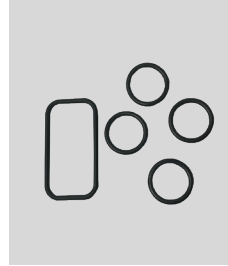
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DCV60A Options and
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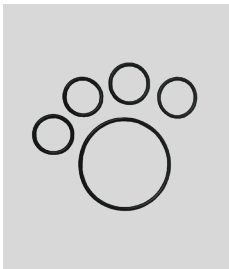
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DCV100 Options and
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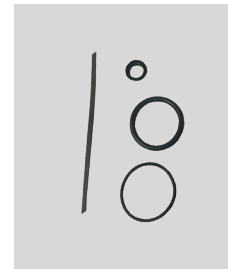
DCV150 Mobile Directional
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DCV150 Options and
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DCV200 Mobile Directional
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DCV200 Options and
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DCV20

Manually Operated Directional Control Valve

Double Acting - Spring Centred

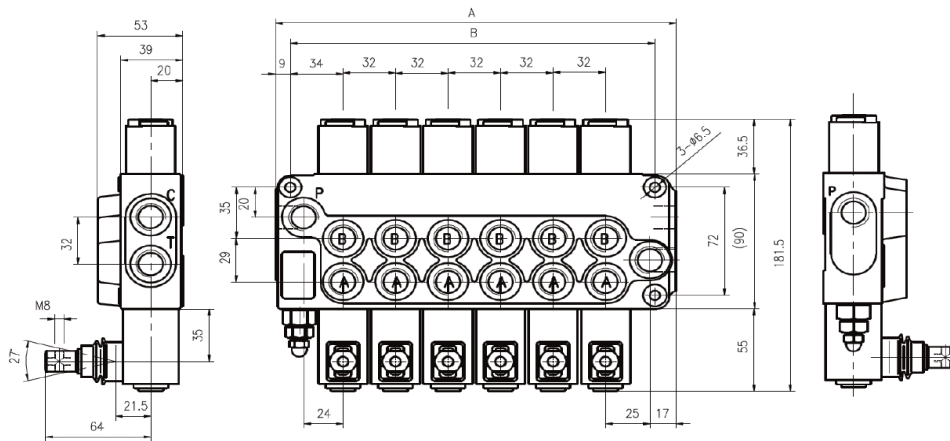
Monoblock

Common Load Hold Check

Microswitch Kits Available



Part Number	Max Flow	Max Pressure	Ports	A	B	Weight (Kg)	List
DCV20/1-E7(200)-S1C1A1-U1-G06	35 LPM	350 Bar	3/8" BSPP	85	62	3.3	233.00
DCV20/2-E7(200)-S1C1A1-U1-G06				117	94	4.4	368.00
DCV20/3-E7(200)-S1C1A1-U1-G06				149	126	5.5	504.00
DCV20/4-E7(200)-S1C1A1-U1-G06				181	158	6.6	640.00
DCV20/5-E7(200)-S1C1A1-U1-G06				213	190	7.7	775.00
DCV20/6-E7(200)-S1C1A1-U1-G06				245	222	8.8	910.00



Options

Part Number	Description	List
DCV20-A1	3 Position Spring Kit	48.00
DCV20-A2	Detent Kit 3 Position	48.00
DCV20-A3	Detent Kit 2 Position - Detent in A	48.00
DCV20-A4	Detent Kit 2 Position - Detent in B	48.00
DCV20-A14	Pneumatic Control Kit	160.00
DCV20-A18	Micro Switch (per Spool)	150.00
DCV-A171-12V	Electric Pneumatic On/Off Kit 12VDC	267.00
DCV-A172-24V	Electric Pneumatic On/Off Kit 24VDC	267.00
DCV20-C1	Lever Box	53.00
DCV20-RB	Rubber Boot	13.00
DCV20-RV	Main Relief Valve	108.00
DCV20/40-U2	HPCO Plug	9.00
DCV20-S1	Double Acting Spool	Add 14.00
DCV20-S4	Motor Spool	Add 14.00
DCV20-S8	Single Acting	Add 14.00
DCV20-SK	DCV20 Seal Kit	48.00

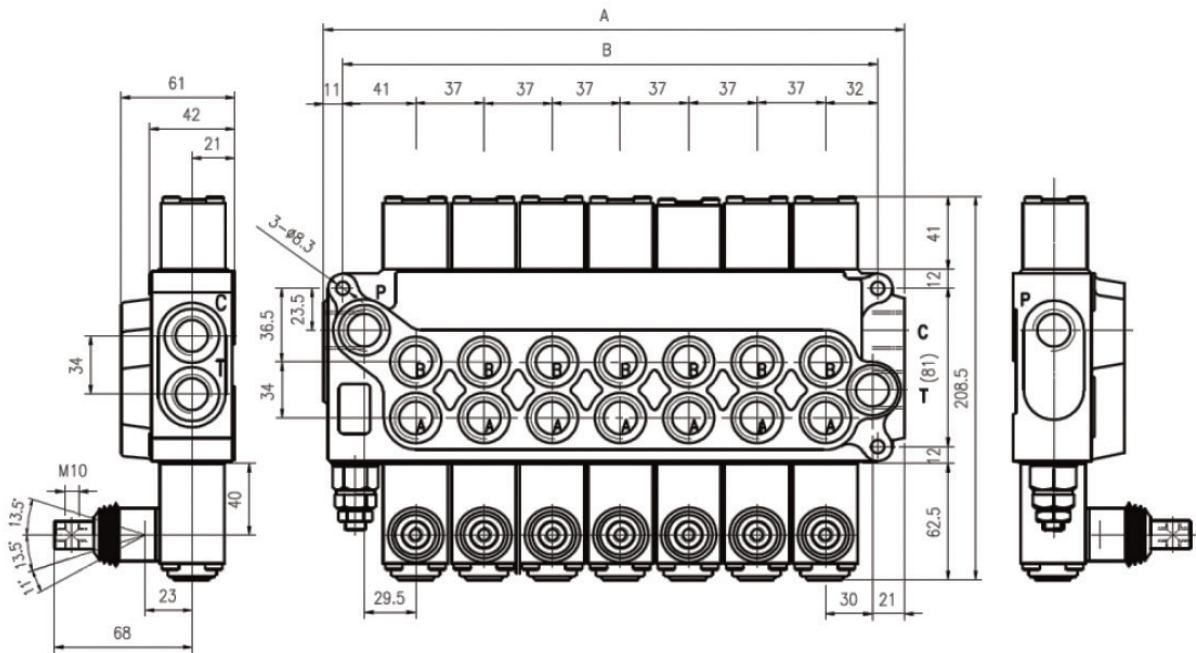


DCV40

Manually Operated Directional Control Valve
Double Acting - Spring Centred
Common Load Hold Check
Monoblock



Part Number	Max Flow	Max Pressure	Ports	A	B	Weight (Kg)	List
DCV40/1-E7(200)-S1C1A1-U1-G08	40 LPM	350 Bar	1/2" BSPP	103	73	5.4	314.00
DCV40/2-E7(200)-S1C1A1-U1-G08				140	110	7.4	492.00
DCV40/3-E7(200)-S1C1A1-U1-G08				177	147	9.4	653.00
DCV40/4-E7(200)-S1C1A1-U1-G08				214	184	11.4	839.00
DCV40/5-E7(200)-S1C1A1-U1-G08				251	221	13.4	1012.00
DCV40/6-E7(200)-S1C1A1-U1-G08				288	258	15.4	1185.00





Options

Part Number	Description	List
DCV40/60-A1	3 Position Spring Kit	48.00
DCV40/60-A2	Detent Kit 3 Position	53.00
DCV40/60-A3	Detent Kit 2 Position - Detent in A	53.00
DCV40/60-A4	Detent Kit 2 Position - Detent in B	53.00
DCV40/60-A8	Spring Kit 2 Position A&O	53.00
DCV40/60-A9	Spring Kit 2 Position B&O	53.00
DCV40/60-A14	Pneumatic Control Kit	160.00
DCV40/60-A25	12 VDC Electric On/Off	N/A
DCV40/60-A26	24 VDC Electric On/Off	N/A
DCV-A171-12V	Electric Pneumatic On/Off 12VDC	267.00
DCV-A172-24V	Electric Pneumatic On/Off 24VDC	267.00
DCV40/60-C1	Lever Box	53.00
DCV40/60-RB	Rubber Boot	13.00
DCV20/40-U2	HPCO Plug	9.00
DCV40-S1	Double Acting Spool	Add 14.00
DCV40-S4	Motor Spool	Add 14.00
DCV40-S8	Single Acting Spool in A	Add 14.00
DCV40-S9	Single Acting Spool in B	Add 14.00
DCV40-RV-A	Main Relief Valve	131.00
DCV40-RV-B	Main Relief Cartridge (150 - 250)	131.00
DCV40-RV-D	Main Relief Cartridge (280 - 350)	131.00
DCV40/60-A14-SK	Seal Kit to Suit DCV40/60-A14 Pneumatic Kit	48.00
DCV40-SK	DCV40 Seal Kit	48.00

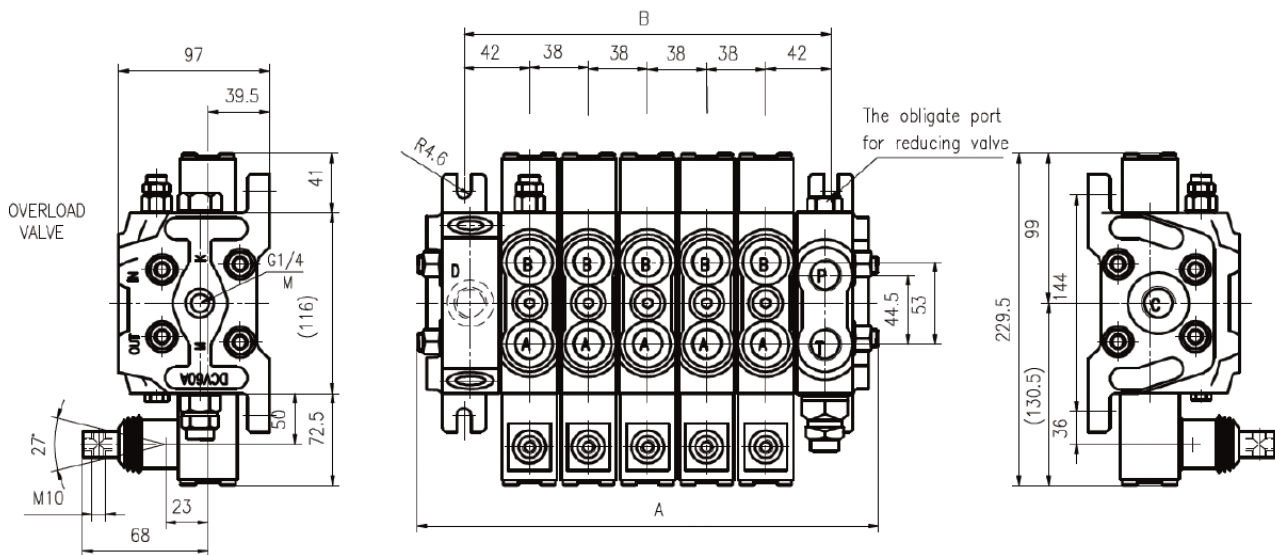


DCV60A Sectional 1-12 Sections

Manually Operated Directional Control Valve
Double Acting - Spring Centred
Load Hold Checks



Part Number	Max Flow	Max Pressure	Ports	A	B	Weight (Kg)	List
DCV60A/1-E2(200)-S1C1A1-U1-G08	60 LPM	315 Bar	1/2" BSPP	103	73	5.4	553.00
DCV60A/2-E2(200)-S1C1A1-U1-G08				140	110	7.4	779.00
DCV60A/3-E2(200)-S1C1A1-U1-G08				177	147	9.4	1007.00
DCV60A/4-E2(200)-S1C1A1-U1-G08				214	184	11.4	1235.00
DCV60A/5-E2(200)-S1C1A1-U1-G08				251	221	13.4	1462.00
DCV60A/6-E2(200)-S1C1A1-U1-G08				288	258	15.4	1690.00





Part Number	Description	List
DCV60-S*-Section	Add per Extra Section	228.00
DCV40/60-A1	Spring Kit	48.00
DCV40/60-A2	Detent Kit 3 Position	53.00
DCV40/60-A3	Detent Kit 2 Position - Detent in A	53.00
DCV40/60-A4	Detent Kit 2 Position - Detent in B	53.00
DCV40/60-A8	Spring Kit 2 Position A&O	53.00
DCV40/60-A9	Spring Kit 2 Position B&O	53.00
DCV40/60-A14	Pneumatic Kit	160.00
DCV-A171-12V	Electric Pneumatic On/Off 12VDC	267.00
DCV-A172-24V	Electric Pneumatic On/Off 24VDC	267.00
DCV40/60-C1	Lever Box	53.00
DCV60-E2(140)	Inlet with Relief	TBA
DCV60-RV	Standard Relief Valve	85.00
DCV60-S1	Double Acting Spool	Add 14.00
DCV60-S4	Motor Spool	Add 14.00
DCV60-S7	Single Acting Spool in A	Add 14.00
DCV60-S8	Single Acting Spool in B	Add 14.00
DCV60-V*1-B	140 Bar Port Relief	83.00
DCV60-V*1-C	200 Bar Port Relief	83.00
DCV60-U1-G08	Outlet Section	107.00
DCV60-U2	HPCO Plug	11.00
DCV60-U2-G08	Outlet Section	107.00
DCV60-E2(200)	Inlet Section	134.00
DCV60-MRV	Main Relief Valve	85.00
DCV60-MRV-D	Main Relief Valve 315 Bar	85.00
DCV60-RB	Rubber Boot	13.00
DCV60-SK	Seal Kit	40.00
Bolt Kits		
DCV60A-BK1	4 Bolts per Kit (10X158) to suit 1 Section	7.00
DCV60A-BK2	4 Bolts per Kit (10X200) to suit 2 Section	7.00
DCV60A-BK3	4 Bolts per Kit (10X242) to suit 3 Section	10.00
DCV60A-BK4	4 Bolts per Kit (10X284) to suit 4 Section	10.00
DCV60A-BK5	4 Bolts per Kit (10X326) to suit 5 Section	15.00
DCV60A-BK6	4 Bolts per Kit (10X370) to suit 6 Section	29.00



DCV100

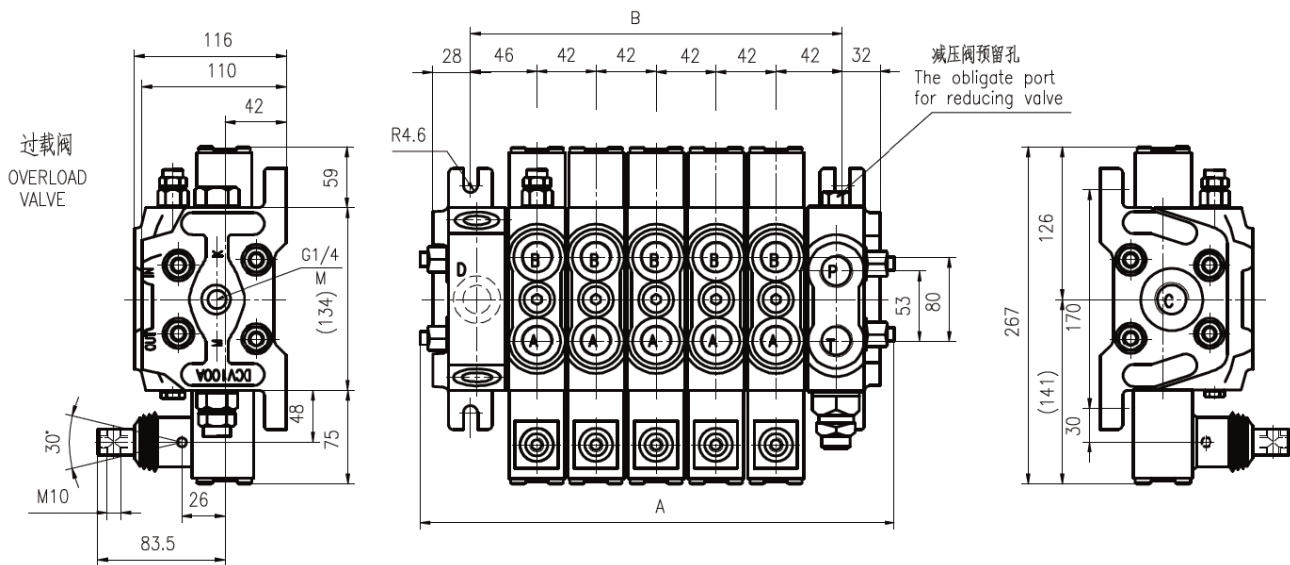
Sectional

1-12 Sections

Manually Operated Directional Control Valve
Double Acting - Spring Centred
Load Hold Checks



Part Number	Max Flow	Max Pressure	Ports	A	B	Weight (Kg)	List
DCV100/1-E2(200)-S1C1A1-U1-G12	100 LPM	315 Bar	3/4" BSPP	158	88	9.8	821.00
DCV100/2-E2(200)-S1C1A1-U1-G12				200	130	13.7	1286.00
DCV100/3-E2(200)-S1C1A1-U1-G12				242	172	17.6	1754.00
DCV100/4-E2(200)-S1C1A1-U1-G12				284	214	21.5	2219.00
DCV100/5-E2(200)-S1C1A1-U1-G12				326	256	25.4	2686.00
DCV100/6-E2(200)-S1C1A1-U1-G12				370	298	29.3	3153.00



Bolt Kits

Part Number	Description	List
DCV100-BK1	4 Bolts per Kit (10X158) to suit 1 Section	25.00
DCV100-BK2	4 Bolts per Kit (10X200) to suit 2 Section	31.00
DCV100-BK3	4 Bolts per Kit (10X242) to suit 3 Section	38.00
DCV100-BK4	4 Bolts per Kit (10X284) to suit 4 Section	44.00
DCV100-BK5	4 Bolts per Kit (10X326) to suit 5 Section	50.00
DCV100-BK6	4 Bolts per Kit (10X370) to suit 6 Section	58.00



Inlet Section

Part Number	Description	List
DCV100-E2(200)-G12	Inlet Section with Relief	218.00

Working Sections

DCV100-S1C1A1-G12	Double Acting Valve Section Only	460.00
DCV100-S1C1A2-G12	Double Acting Valve Section with 3 Position Detent	543.00
DCV100-S1C1A14-G12	Double Acting Valve Section with Pneumatic Controls	618.00
DCV100-S4C1A1-G12	Double Acting Motor Spool Valve Section	482.00
DCV100-S4C1A2-G12	Double Acting Motor Spool Valve Section with 3 Position Detent	565.00
DCV100-S4C1A14-G12	Double Acting Spool Valve Section with Pneumatic Controls	640.00
DCV100-S7C1A1-G12	Single Acting Valve Section in A	618.00
DCV100-S7C1A14-G12	Single Acting Valve Section in A with Pneumatic Controls	775.00
DCV100-S8C1A1-G12	Single Acting Valve Section in B	618.00
DCV100-S8C1A14-G12	Single Acting Valve Section in B with Pneumatic Controls	775.00

Outlet Section

DCV100-U1-G12	Outlet Section Open Centre	119.00
DCV100-U2-G12	Outlet Section Closed Centre & Power Beyond	119.00

Options

DCV100/150-A1	Spring Kit	36.00
DCV100/150-A2	Detent Kit 3 Position	83.00
DCV100/150-A3	Detent Kit 2 Position - Detent in A	83.00
DCV100/150-A4	Detent Kit 2 Position - Detent in B	83.00
DCV100/150-A14	Pneumatic Kit	158.00
DCV-A171-12V	Electric Pneumatic On/Off 12VDC	264.00
DCV-A172-24V	Electric Pneumatic On/Off 24VDC	
DCV100/150-C1	Handle End Cover	83.00
DCV100-U2	HPCO Plug	16.00
DCV100-S1	Double Acting Spool	22.00
DCV100-S4	Motor Spool	22.00
DCV100-S7	Single Acting Spool	158.00
DCV100-S8	Single Acting Spool	158.00
DCV100/150-Va1/Vb1-B	A & B Port Relief Valves (80-160 Bar)	83.00
DCV100/150-Va1/Vb1-C	A & B Port Relief Valves (140-220 Bar)	83.00
DCV100/150-Va3/Vb3-B	Combined Anti Cav + Port Relief Valves (80-160 Bar)	95.00
DCV100/150-Va3/Vb3-C	Combined Anti Cav + Port Relief Valves (140-220 Bar)	95.00
DCV100-Body-SK	Section Seal Kit	22.00
DCV100-RB	Rubber Boot for Handle	13.00
DCV100-RV-B	Relief Valve (100 - 240 Bar)	143.00
DCV100-RV-D	Main Relief Cartridge (175 - 320)	184.00
DCV100-SK	Seal Kit	46.00
DCV100/150-A14-SK	Seal Kit to Suit DCV100/150-A14 Pneumatic Kit	48.00



DCV150 Sectional 1-12 Sections

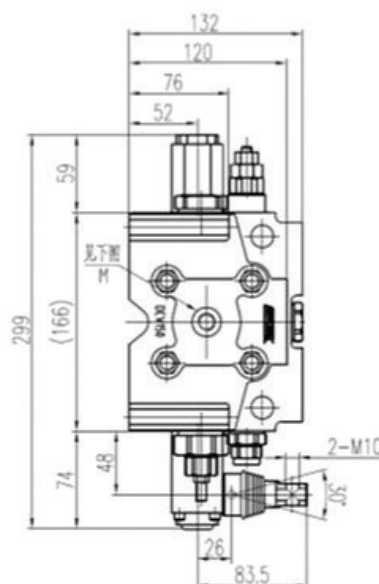
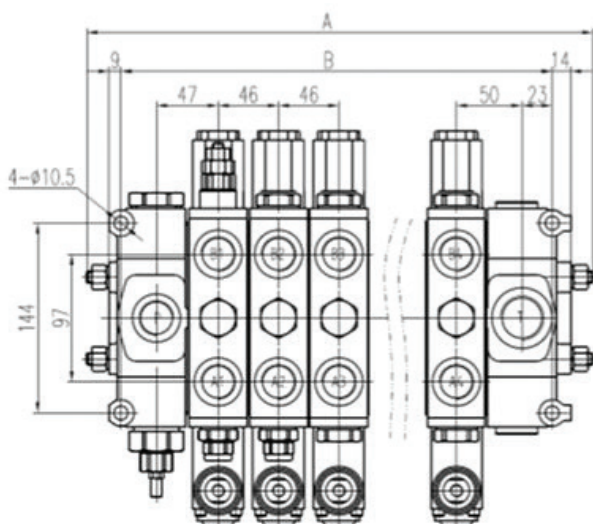
150 LPM

315 Bar

Load Hold Checks



Part Number	A Dim	B Dim	Max Flow	Max Pressure	Ports		List
DCV150/1-E2(200)-S1C1A1-U1-G16	204	147	150 LPM	315 Bar	P 3/4" BSPP T 1" BSPP	A and B 3/4" BSPP	1043.00
DCV150/2-E2(200)-S1C1A1-U1-G16	250	193					1559.00
DCV150/3-E2(200)-S1C1A1-U1-G16	296	239					2077.00
DCV150/4-E2(200)-S1C1A1-U1-G16	342	285					2594.00
DCV150/5-E2(200)-S1C1A1-U1-G16	388	331					3111.00
DCV150/6-E2(200)-S1C1A1-U1-G16	434	377					3629.00



Bolt Kits

Part Number	Description	List
DCV150-BK1	4 Bolts per Kit (10X158) to suit 1 Section	27.00
DCV150-BK2	4 Bolts per Kit (10X200) to suit 2 Section	32.00
DCV150-BK3	4 Bolts per Kit (10X242) to suit 3 Section	39.00
DCV150-BK4	4 Bolts per Kit (10X284) to suit 4 Section	47.00
DCV150-BK5	4 Bolts per Kit (10X326) to suit 5 Section	52.00
DCV150-BK6	4 Bolts per Kit (10X370) to suit 6 Section	60.00



Inlet Section

Part Number	Description	List
DCV150-E2(200)-G16	Inlet Section with Relief	339.00

Working Sections

DCV150-S1C1A1-G16	Double Acting Valve Section Only	511.00
DCV150-S1C1A2-G16	Double Acting Valve Section with 3 Position Detent	593.00
DCV150-S1C1A14-G16	Double Acting Valve Section with Pneumatic Controls	668.00
DCV150-S4C1A1-G16	Double Acting Motor Spool Valve Section	511.00
DCV150-S4C1A2-G16	Double Acting Motor Spool Valve Section with 3 Position Detent	483.00
DCV150-S4C1A14-G16	Double Acting Motor Spool Valve Section with Pneumatic Controls	668.00
DCV150-S7C1A1-G16	Single Acting Valve Section in A	702.00
DCV150-S7C1A14-G16	Single Acting Valve Section in A with Pneumatic Controls	860.00
DCV150-S8C1A1-G16	Single Acting Valve Section in B	702.00
DCV150-S8C1A14-G16	Single Acting Valve Section in B with Pneumatic Controls	860.00

Outlet Section

DCV150-U1-G16	Outlet Section Open Centre	168.00
DCV150-U2-G16	Outlet Section Closed Centre & Power Beyond	168.00
DCV150-U1/U2-G16	Outlet Section U1 or U2	168.00

Options

DCV150-A1	Spring Kit	83.00
DCV150-A2	Detent Kit 3 Position	83.00
DCV150-A3	Detent Kit 2 Position - Detent in A	83.00
DCV150-A4	Detent Kit 2 Position - Detent in B	83.00
DCV150-A14	Pneumatic Kit	158.00
DCV150-A17	Electric Pneumatic On/Off	264.00
DCV150-C1	Handle End Cover	83.00
DCV150-U2	HPCO Plug	32.00
DCV150-S1	Double Acting Spool	35.00
DCV150-S4	Motor Spool	35.00
DCV150-S7	Single Acting Spool	192.00
DCV150-S8	Single Acting Spool	192.00
DCV150-Va1/Vb1-B	A & B Port Relief Valves (80-160 Bar)	83.00
DCV150-Va1/Vb1-C	A & B Port Relief Valves (140-220 Bar)	83.00
DCV150-Va3/Vb3-B	Combined Anti Cav + Port Relief Valves (80-160 Bar)	95.00
DCV150-Va3/Vb3-C	Combined Anti Cav + Port Relief Valves (140-220 Bar)	95.00
DCV150-SK	Seal Kit	46.00
DCV100/150-A14-SK	Seal Kit to Suit DCV100/150-A14 Pneumatic Kit	48.00
DCV150/200-MRV	Main Relief Cartridge (50 - 315 Bar)	228.00
DCV150/200-V*1	Port Relief Cartridges (50 - 315 Bar)	99.00

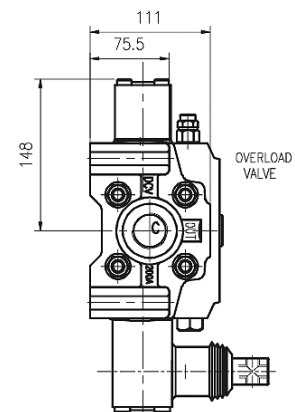
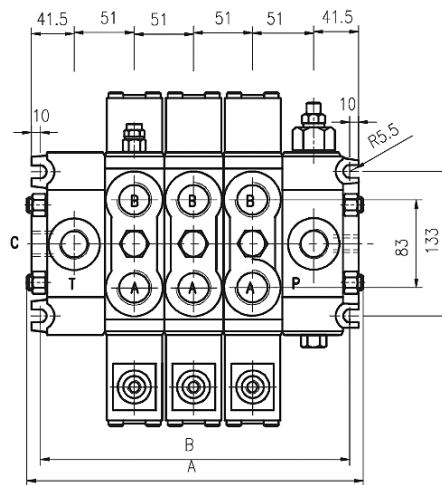
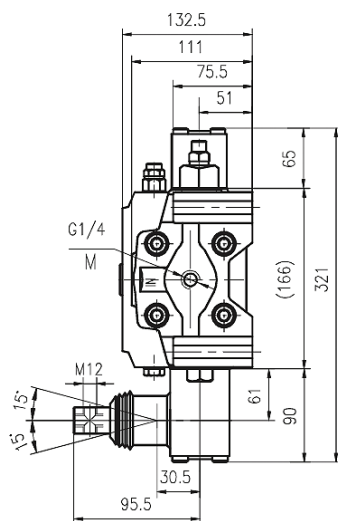


DCV200 Sectional 1-12 Sections

200 LPM
315 Bar



Part Number	Max Flow	Max Pressure	Ports	A	B	Weight (Kgs)	List
DCV200/1-E2(140)-S1C1A1-U1-G16	200 LPM	315 Bar	1" BSPP	190	165	16.2	1273.00
DCV200/2-E2(140)-S1C1A1-U1-G16				241	216	22.8	1983.00
DCV200/3-E2(140)-S1C1A1-U1-G16				292	267	29.4	2694.00
DCV200/4-E2(140)-S1C1A1-U1-G16				343	318	36	3404.00
DCV200/5-E2(140)-S1C1A1-U1-G16				394	368	42.6	4117.00
DCV200/6-E2(140)-S1C1A1-U1-G16				445	420	49.2	4828.00



Bolt Kits

Part Number	Description	List
DCV200-BK1	4 Bolts per Kit (12X190) to suit 1 Section	39.00
DCV200-BK2	4 Bolts per Kit (12X241) to suit 2 Section	47.00
DCV200-BK3	4 Bolts per Kit (12X292) to suit 3 Section	57.00
DCV000-BK4	4 Bolts per Kit (12X343) to suit 4 Section	65.00
DCV200-BK5	4 Bolts per Kit (12X394) to suit 5 Section	75.00
DCV200-BK6	4 Bolts per Kit (12X445) to suit 6 Section	85.00



Inlet Section

Part Number	Description	List
DCV200-E2(200)-G16	Inlet Section with Relief	339.00

Working Sections

DCV200-S1C1A1-G16	Double Acting Valve Section Only	702.00
DCV200-S1C1A2-G16	Double Acting Valve Section with 3 Position Detent	785.00
DCV200-S1C1A14-G16	Double Acting Valve Section with Pneumatic Controls	898.00
DCV200-S4C1A1-G16	Double Acting Motor Spool Valve Section	702.00
DCV200-S4C1A2-G16	Double Acting Motor Spool Valve Section with 3 Position Detent	785.00
DCV200-S4C1A14-G16	Double Acting Motor Spool Valve Section with Pneumatic Controls	898.00
DCV200-S7C1A1-G16	Single Acting Valve Section in A	978.00
DCV200-S7C1A14-G16	Single Acting Valve Section in A with Pneumatic Controls	1174.00
DCV200-S8C1A1-G16	Single Acting Valve Section in B	978.00
DCV200-S8C1A14-G16	Single Acting Valve Section in B with Pneumatic Controls	1174.00

Outlet Section

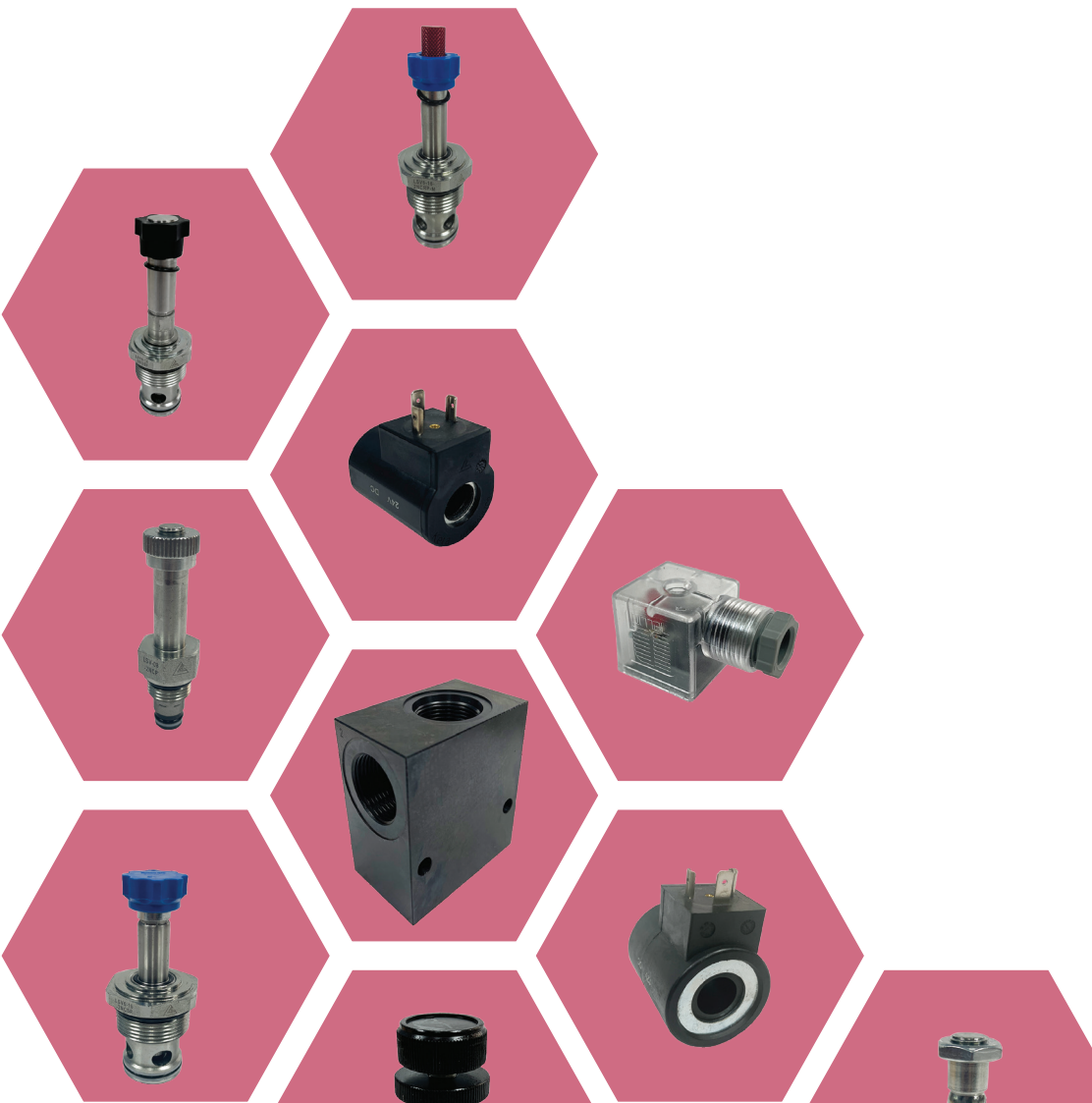
DCV200-U1-G16	Outlet Section Open Centre	194.00
DCV200-U2-G16	Outlet Section Closed Centre & Power Beyond	194.00

Options

DCV200-A1	Spring Kit	83.00
DCV200-A2	Detent Kit 3 Position	83.00
DCV200-A3	Detent Kit 2 Position - Detent in A	83.00
DCV200-A4	Detent Kit 2 Position - Detent in B	83.00
DCV200-A14	Pneumatic Kit	196.00
DCV200-A17	Electric Pneumatic On/Off	303.00
DCV200-C1	Handle End Cover	59.00
DCV200-U2	HPCO Plug	32.00
DCV200-S1	Double Acting Spool	35.00
DCV200-S4	Motor Spool	35.00
DCV200-S7	Single Acting Spool	277.00
DCV200-S8	Single Acting Spool	277.00
DCV200-Va1/Vb1-B	A & B Port Relief Valves (80-160 Bar)	99.00
DCV200-Va1/Vb1-C	A & B Port Relief Valves (140-220 Bar)	99.00
DCV200-V*-1-B	Port Relief Valve (80-160 Bar)	99.00
DCV200-V*-1-C	Port Relief Valve (140-220 Bar)	99.00
DCV200-V*1-D	Port Relief Cartridge (200-300 Bar)	228.00
DCV200-SK	Seal Kit	52.00
DCV200-A14-SK	Seal Kit to suit A14 Pneumatic Kit	48.00
DCV200-E24	Inlet Section	339.00
DCV200-RB	Rubber Boot	13.00



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Timalco Hydraulics



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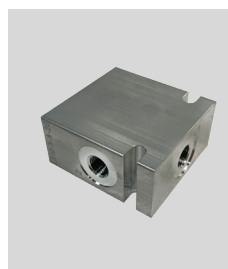
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2 Port Bodies
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3 Port Bodies
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Sun Type Cartridges
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Sun Type Bodies
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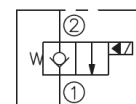
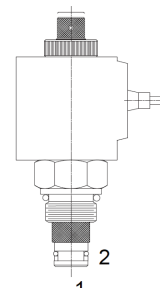
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Normally Closed 2 Position Solenoid Operated Cartridge Valves

Normally Closed - No Reverse Flow when Energised.						
Part Number	Flow Rate LPM	Pressure Bar	Common Cavity		Coil	List
LSV-08-2NCP	18	210	08-2	3/4-16 2 Way	LC2-08-C-*H	81.00
LSV2-08-2NCP	30	250	08-2	3/4-16 2 Way	LC2-08-C-*H	87.00
LSV6-08-2NCP	50	350	08-2	3/4-16 2 Way	LC6-08-S-*H	124.00
LSV2-10-2NCP	60	250	10-2	7/8-14 2 Way	LC2-10-C-*H	87.00
LSV2-12-2NCP	113	250	12-2	1-1/16-12 2 Way	LC2-10-C-*H	141.00
LSV6-16-2NCP	150	350	16-2	1-5/16-12 2 Way	LC6-08-S-*H	226.00

with Manual Override

LSV-08-2NCP-M	18	210	08-2	3/4-16 2 Way	LC2-08-C-*H	102.00
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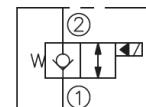
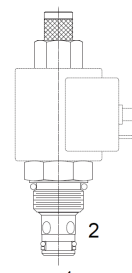
Normally Closed - With Reverse Flow when Energised.						
Part Number	Flow Rate LPM	Pressure Bar	Common Cavity		Coil	List
LSV2-08-2NCRP	22	250	08-2	3/4-16 2 Way	LC2-08-C-*H	87.00
LSV6-08-2NCRP	50	350	08-2	3/4-16 2 Way	LC6-08-S-*H	153.00
LSV2-10-2NCRP	56	250	10-2	7/8-14 2 Way	LC2-10-C-*H	99.00
LSV6-10-2NCRP	70	350	10-2	7/8-14 2 Way	LC6-08-S-*H	174.00
LSV2-12-2NCRP	113	250	12-2	1-1/16-12 2 Way	LC2-10-C-*H	153.00
LSV6-16-2NCRP	150	350	16-2	1-5/16-12 2 Way	LC6-08-S-*H	233.00

with Manual Override

LSV2-08-2NCRP-M	22	250	08-2	3/4-16 2 Way	LC2-08-C-*H	119.00
LSV2-10-2NCRP-M	56	250	10-2	7/8-14 2 Way	LC2-10-C-*H	131.00
LSV2-12-2NCRP-M	113	250	12-2	1-1/16-12 2 Way	LC2-10-C-*H	182.00
LSV6-16-2NCRP-M	150	350	16-2	1-5/16-12 2 Way	LC6-08-S-*H	259.00



Manual Override



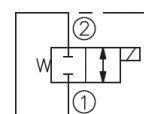
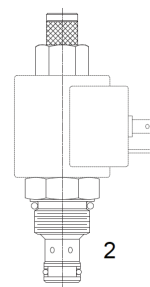
Coils, Din Plugs and Bodies Supplied Separately.
Please refer to Datasheets for Flow Rates and Pressure Drops.



Normally Closed 2 Position Solenoid Operated Cartridge Valves

Normally Closed - 2 Way, 2 Position, Spool Type, Bi-Directional.

Part Number	Flow Rate LPM	Pressure Bar	Common Cavity		Coil	List
LSV2-08-2NCS	16	207	08-2	3/4-16 2 Way	LC2-08-C-*H	90.00
LSV2-10-2NCS	36	207	10-2	7/8-14 2 Way	LC2-08-C-*H	97.00



Normally Closed - 2 Way, 2 Position, Bi-Directional.

Part Number	Flow Rate LPM	Pressure Bar	Common Cavity		Coil	List
LSV2-08-2NCSP-L	15	207	08-2	3/4-16 2 Way	LC3-08-S-*H	134.00
LSV6-08-2NCSP	40	350	08-2	3/4-16 2 Way	LC6-08-S-*H	206.00
LSV6-10-2NCSP	70	350	10-2	7/8-14 2 Way	LC6-08-S-*H	230.00
LSV6-16-2NCSP	150	350	16-2	1-5/16-12 2 Way	LC6-08-S-*H	307.00

with Manual Override

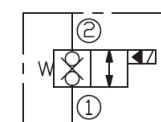
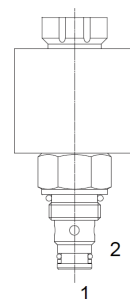
LSV-08S-2NCSP-LM	18	250	08S-2	3/4-16 2 Way	LC3-10-C-*H	202.00
LSV6-08-2NCSP-M	40	350	08-2	3/4-16 2 Way	LC6-08-S-*H	228.00
LSV6-10-2NCSP-M	70	350	10-2	7/8-14 2 Way	LC6-08-S-*H	252.00
LSV6-16-2NCSP-M	150	350	16-2	1-5/16-12 2 Way	LC6-08-S-*H	TBA



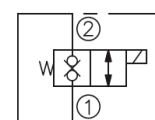
Manual
Override



Manual
Override



NCSP



NCSP - L

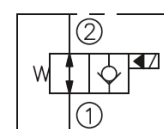
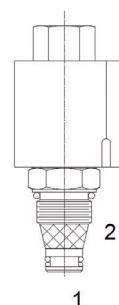
Coils, Din Plugs and Bodies Supplied Separately.
Please refer to Datasheets for Flow Rates and Pressure Drops.

Normally Open 2 Position Solenoid Operated Cartridge Valves

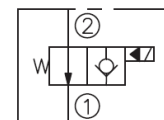
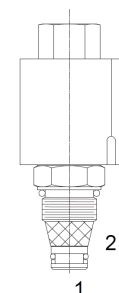
Normally Open - With Reverse Flow when De-Energised.						
Part Number	Flow Rate LPM	Pressure Bar	Common Cavity		Coil	List
LSV2-08-2NORP	38	250	08-2	3/4-16 2 Way	LC2-08-C-*H	102.00
LSV2-10-2NORP	68	250	10-2	7/8-14 2 Way	LC2-10-C-*H	134.00
LSV2-12-2NORP	113	250	12-2	1-1/16-12 2 Way	LC2-10-C-*H	190.00

with Manual Override

LSV2-08-2NORP-M	38	250	08-2	3/4-16 2 Way	LC2-08-C-*H	121.00
LSV2-10-2NORP-M	68	250	10-2	7/8-14 2 Way	LC2-10-C-*H	148.00
LSV2-12-2NORP-M	113	250	12-2	1-1/16-12 2 Way	LC2-10-C-*H	204.00
LSV6-16-2NORP-M	150	350	16-2	1-5/16-12 2 Way	LC3-10-C-*H	305.00

Manual
Override

Normally Open - Restricted Reverse Flow when Energised.						
Part Number	Flow Rate LPM	Pressure Bar	Common Cavity		Coil	List
LSV2-08-2NOP	38	250	08-2	3/4-16 2 Way	LC2-08-C-*H	93.00
LSV2-10-2NOP	66	250	10-2	7/8-14 2 Way	LC2-10-C-*H	120.00
LSV2-12-2NOP	113	250	12-2	1-1/16-12 2 Way	LC2-10-C-*H	184.00

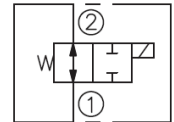
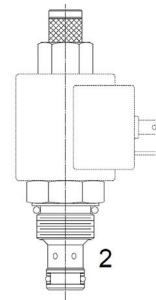


Coils, Din Plugs and Bodies Supplied Separately.
Please refer to Datasheets for Flow Rates and Pressure Drops.



Normally Open 2 Position Solenoid Operated Cartridge Valves

Normally Open - 2 Way, 2 Position, Spool Type, Bi-Directional.						
Part Number	Flow Rate LPM	Pressure Bar	Common Cavity		Coil	List
LSV2-08-2NOS	11	207	08-2	3/4-16 2 Way	LC2-08-C-*H	93.00
LSV2-10-2NOS	22	207	10-2	7/8-14 2 Way	LC2-10-C-*H	119.00



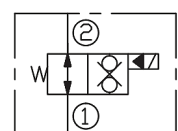
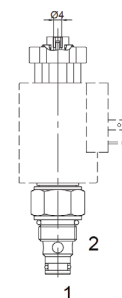
Normally Open - Reverse Free Flow, Checked 1 & 2 when Energised.						
Part Number	Flow Rate LPM	Pressure Bar	Common Cavity		Coil	List
LSV6-08-2NOSP	50	350	08-2	3/4-16 2 Way	LC3-10-C-*H	233.00
LSV6-10-2NOSP	70	350	10-2	7/8-14 2 Way	LC3-10-C-*H	277.00
LSV6-16-2NOSP	150	350	16-2	1-5/16-12 2 Way	LC3-10-C-*H	351.00

with Manual Override

LSV6-08-2NOSP-M	50	350	08-2	3/4-16 2 Way	LC3-10-C-*H	255.00
LSV6-10-2NOSP-M	70	350	10-2	7/8-14 2 Way	LC3-10-C-*H	299.00



Manual
Over-Ride



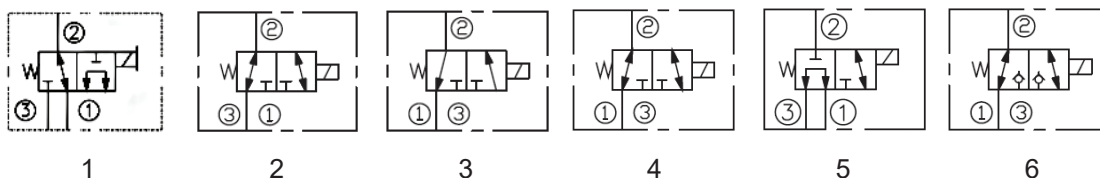
Coils, Din Plugs and Bodies Supplied Separately.
Please refer to Datasheets for Flow Rates and Pressure Drops.

Solenoid Operated Cartridge Valves

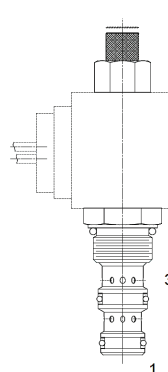
3 Way 2 Position							
Part Number	Flow Rate LPM	Pressure Bar	Common Cavity		Coil	Diagram	List
LSV2-08-3	11	207	08-3	3/4-16 3 Way	LC2-08-*-*H	1	87.00
LSV2-10-3	22	207	10-3	7/8-14 3 Way	LC2-10-C-*H	1	97.00
LSV2-08-3A	11	207	08-3	3/4-16 3 Way	LC2-08-*-*H	2	87.00

LSV2-08-3B	18	207	08-3	3/4-16 3 Way	LC2-08-*-*H	3	93.00
LSV2-08-3B-M	18	207	08-3	3/4-16 3 Way	LC2-08-*-*H	3	148.00
LSV2-10-3B	22	207	10-3	7/8-14 3 Way	LC2-10-C-*H	4	112.00
LSV2-08-3C	11	207	08-3	3/4-16 3 Way	LC2-08-*-*H	5	87.00

LSV-08-3L	20	350	08-3	3/4-16 3 Way	LC3-10-C-*H	6	192.00
LSV-10-3L-M	25	250	10-3	7/8-14 3 Way	LC3-10-C-*H	6	206.00

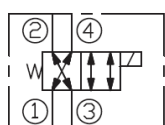


Manual
Override

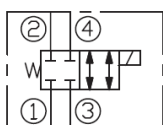




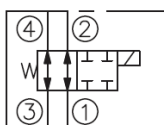
4 Way Valves						
Part Number	Flow Rate LPM	Pressure Bar	Common Cavity		Coil	Diagram
LSV2-08-4-CO	11	207	08-4	3/4-16 4 Way	LC2-08-*-H	1
LSV2-10-4-CO	22	207	10-4	7/8-14 4 Way	LC2-10-*-H	1
LSV2-08-4-NC	11	207	08-4	3/4-16 4 Way	LC2-08-*-H	2
LSV2-10-4-NO	22	207	10-4	7/8-14 4 Way	LC2-10-*-H	3
LSV-08-34-T	11	207	08-4	3/4-16 4 Way	LC2-08-*-H X2	4
LSV-08-34-M	11	207	08-4	3/4-16 4 Way	LC2-08-*-H X2	5
LSV-08-34-C	11	207	08-4	3/4-16 4 Way	LC2-08-*-H X2	6
LSV-08-34-O	11	207	08-4	3/4-16 4 Way	LC2-08-*-H X2	7



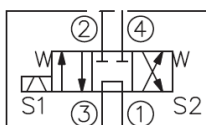
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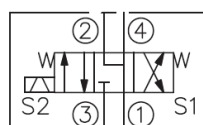
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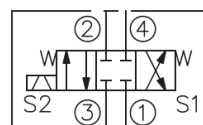
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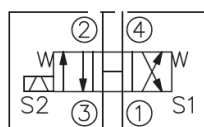
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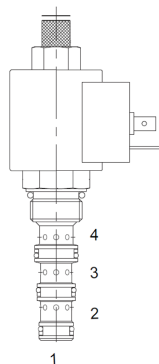
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6



7



Coils							
	Part Number	Coil Type	Voltage	Power Watts	Dimensions width x length	Stem Dia approx	List
	LC-08-S-1H	Square	12VDC	18	30.4 x 38.8	13 mm	29.00
	LC-08-S-2H		24VDC	18	30.4 x 38.8	13 mm	29.00
	LC-08-S-3H		110VAC	18	30.4 x 38.8	13 mm	59.00
	LC-08-S-4H		220VAC	18	30.4 x 38.8	13 mm	35.00
	LC2-08-C-1H	Cylindrical	12VDC	18	34.3 x 37	13 mm	29.00
	LC2-08-C-2H		24VDC	18	34.3 x 37	13 mm	29.00
	LC2-08-C-3H		110VAC	18	34.3 x 37	13 mm	59.00
	LC2-08-C-4H		220VAC	18	34.3 x 37	13 mm	35.00
	LC2-08-C-8H		24VAC	18	34.3 x 37	13 mm	49.00
	LC2-08-C-XER Water-Proof	Cylindrical	24VDC	18	35.8 x 36.3	13 mm	87.00
	LC2-10-C-1H	Cylindrical	12VDC	20	44 x 51.3	16 mm	37.00
	LC2-10-C-2H		24VDC	20	44 x 51.3	16 mm	37.00
	LC2-10-C-3H		110VAC	20	44 x 51.3	16 mm	65.00
	LC2-10-C-4H		220VAC	20	44 x 51.3	16 mm	41.00
	LC3-08-S-1H	Square	12VDC	22	36 x 38.8	13 mm	29.00
	LC3-08-S-2H		24VDC	22	36 x 38.8	13 mm	29.00
	LC3-08-S-3H		110VAC	22	36 x 38.8	13 mm	59.00
	LC3-08-S-4H		220VAC	22	36 x 38.8	13 mm	35.00
	LC3-10-C-1H	Cylindrical	12VDC	26	37.7 x 50.5	16 mm	37.00
	LC3-10-C-2H		24VDC	26	37.7 x 50.5	16 mm	37.00
	LC3-10-C-3H		110VAC	26	37.7 x 50.5	16 mm	65.00
	LC3-10-C-4H		220VAC	26	37.7 x 50.5	16 mm	41.00
	LC6-08-S-1H	Square	12VDC	21	36 x 38.5	13 mm	37.00
	LC6-08-S-2H		24VDC	21	36 x 38.5	13 mm	37.00
	LC6-08-S-3H		110VAC	21	36 x 38.5	13 mm	65.00
	LC6-08-S-4H		220VAC	21	36 x 38.5	13 mm	65.00

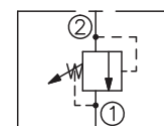
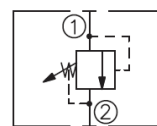
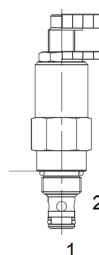


DIN Plug Connectors		
Part Number	Description	List
18209N	Din Plug - Black	5.00
18209G	Din Plug - Grey	5.00
18209-12V	12V LED Din Plug	22.00
18209-24V	24V LED Din Plug	22.00
18209-10-50V-S	12V or 24V LED & Suppressor	22.00
18209-110V	110V LED	22.00
18209-240V	240V LED	22.00
18209-DMR	Din Plug with Diode 10-50VDC	22.00
18209-110RAC	Rectifier 110V	43.00
18209-240RAC	Rectifier 240V	43.00
18209RAC	Rectifier AC-DC	38.00



Relief Valve Cartridges						
Part Number	Type	Adjustment Range	Common Cavity		Max Flow Rate	List
LADRV6-08-18	Direct Acting	17-160 Bar	08-2	3/4 - 16UNF 2 Way	22 LPM	63.00
LADRV6-08-33	Direct Acting	17-250 Bar	08-2	3/4 - 16UNF 2 Way	22 LPM	63.00
LADRV6-10-23	Direct Acting	17-158 Bar	10-2	7/8 - 14UNF 2 Way	37 LPM	71.00
LADRV6-10-33	Direct Acting	17-230 Bar	10-2	7/8 - 14UNF 2 Way	37 LPM	71.00
LNRV-08M-2-14	Direct Acting	30-100 Bar	08M-2	M20X1.5 - 7H 2 Way	30 LPM	TBA
LNRV-08M-2-30	Direct Acting	50-210 Bar	08M-2	M20X1.5 - 7H 2 Way	30 LPM	TBA
LNRV-08M-2-50	Direct Acting	100-350 Bar	08M-2	M20X1.5 - 7H 2 Way	30 LPM	61.00
LPSRV2-08-30	Pilot Operated	3.5-207 Bar	08-2	3/4 - 16UNF 2 Way	37 LPM	85.00
LPSRV2-10-08	Pilot Operated	7-55 Bar	10-2	7/8 - 14UNF 2 Way	120 LPM	87.00
LPSRV2-10-20	Pilot Operated	35-140 Bar	10-2	7/8 - 14UNF 2 Way	120 LPM	87.00
LPSRV2-10-40	Pilot Operated	70-280 Bar	10-2	7/8 - 14UNF 2 Way	120 LPM	87.00
LPSRV2-10-40K	Pilot Operated with KNOB	70-290 Bar	10-2	7/8 - 14UNF 2 Way	120 LPM	107.00
LPSRV2-10-60	Pilot Operated	140-420 Bar	10-2	7/8 - 14UNF 2 Way	120 LPM	87.00
LPSRV2-16-60	Pilot Operated	10-420 Bar	16-2	1-5/16 - 12UNF 2 Way	400 LPM	269.00

LDRV6-10-35	Direct Acting	17-240 Bar	10-2	7/8 - 14UNF 2 Way	110 LPM	84.00
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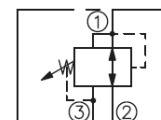
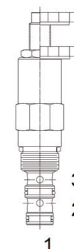


LADRV6

Pressure Reducing/Relieving Cartridges						
Part Number	Type	Adjustment Range	Common Cavity		Max Flow Rate	List
LDPR-08-12	Direct Acting	21-82 Bar	08-3	3/4-16 3 Way	11 LPM	97.00
LDPR-10-15	Direct Acting	20-103 Bar	10-3	7/8-14 3 Way	30 LPM	102.00
LPPR-10-30	Pilot Operated	28-207 Bar	10-3	7/8-14 3 Way	56 LPM	168.00
LPRPS2-10-50	Pilot Operated	28-350 Bar	10-3	7/8-14 3 Way	40 LPM	233.00

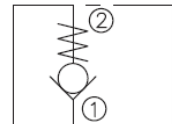
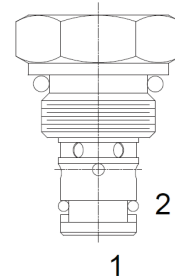
Reducing Cartridge Only

LPRPS-10-30	Pilot Operated	4-207 Bar	10-3	7/8-14 3 Way	38 LPM	184.00
LPPR2-10-30	Pilot Operated	28-207 Bar	10-3	7/8-14 3 Way	56 LPM	172.00



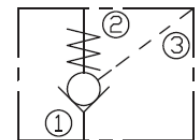
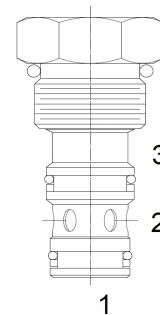
Check Valves - Poppet Type

Part Number	Cracking Pressure	Pressure	Common Cavity		Flow Rate	List
LCV-08-P-0.7	.7 Bar	250 Bar	08-2	3/4-16 2 Way	20 LPM	27.00
LCV-10-P-0.7	.7 Bar	250 Bar	10-2	7/8-14 2 Way	38 LPM	35.00
LCV-10-P-4.5	4.5 Bar	350 Bar	10-2	7/8-14 2 Way	38 LPM	41.00
LCV-12-P-1.7	1.7 Bar	250 Bar	12-2	1-1/16-12 2 Way	120 LPM	53.00
LCV-16-P-1.7	1.7 Bar	350 Bar	16-2	1-5/16-12 2 Way	220 LPM	119.00
LCVR-08-P-0.7	.7 Bar	350 Bar	08-2	3/4-16 2 Way	20 LPM	TBA



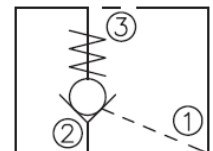
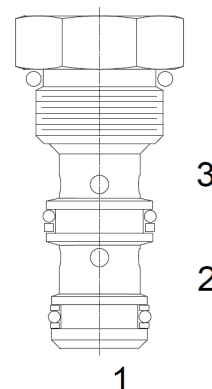
Check Valves - Pilot to Close

Part Number	Cracking Pressure	Pressure	Common Cavity		Flow Rate	List
LPC2-10-N-2.1	2.1 Bar	250 Bar	10-3	7/8-14 3 Way	45 LPM	69.00



Check Valves - Pilot to Open

Part Number	Cracking Pressure	Pressure	Common Cavity		Flow Rate	List
LPC-08-N-1.4	1.4 Bar	250 BAR	08-3	3/4-16 3 Way	25 LPM	65.00
LPOC1-10-3S-2.0	2 Bar	350 BAR	10-3S	7/8-14 3 Way	56 LPM	TBA





Needle Valve Cartridges

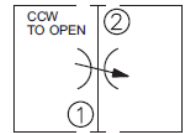
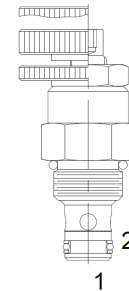
Part Number		Pressure	Common Cavity		Flow Rate	List
LVN2-08		250 Bar	08-2	3/4-16 2 Way	16 LPM	44.00
LVN2-10		250 Bar	10-2	7/8-14 2 Way	30 LPM	47.00
LVN2-10-K	Knob	250 Bar	10-2	7/8-14 2 Way	30 LPM	59.00
LVN2-12		250 Bar	12-2	1-1/16-12 2 Way	100 LPM	90.00
LS-08	Manually Adjustable	250 Bar	08-2	3/4-16 2 Way	18 LPM	61.00



Knob

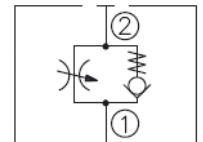
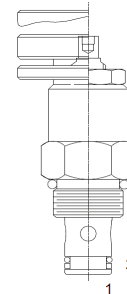


Manually Adjustable



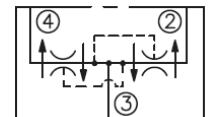
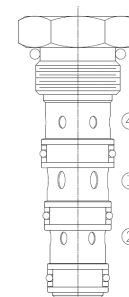
Flow Control Cartridges with Reverse Free Flow

Part Number		Pressure	Common Cavity		Flow Rate	List
LFC-08		250 Bar	08-2	3/4-16 2 Way	20 LPM	59.00
LFC-10		250 Bar	10-2	7/8-14 2 Way	40 LPM	69.00
LFC-12		240 Bar	12-2	1-1/16-12 2 Way	100 LPM	88.00



Flow Divider - Pressure Compensated Divider Combiner

Part Number		Pressure	Common Cavity		Flow Rate	List
LFD-10-3.0		240 Bar	10-4	7/8-14 4 Way	11 LPM	143.00
LFD-10-16.0-5/5		240 Bar	10-4	7/8-14 4 Way	60 LPM	143.00



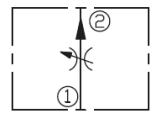
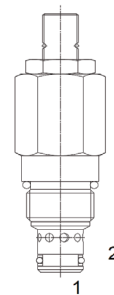
Flow Control - Pressure Compensated Adjustable

Part Number		Pressure	Common Cavity		Flow Rate	List
LFRA-08-Flow Range		240 Bar	08-2	3/4-16 2 Way	1-20 LPM	63.00
LFRA-10-Flow Range		240 Bar	10-2	7/8-14 2 Way	3-10 LPM 11-26 LPM	73.00
LFRA-10-M4.6		240 Bar	10-2	7/8-14 2 Way	3-10 LPM	73.00
LFR-10-2A-M20		350 Bar	10-2	7/8-14 2 Way	0.8-34 LPM	134.00

Non Adjustable

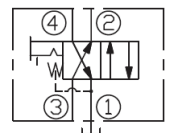
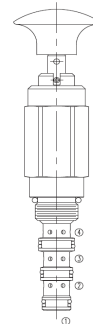
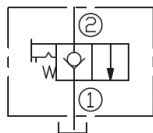
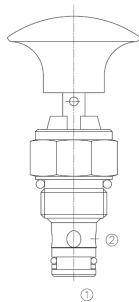
LFR-08-M6.5		250 Bar	08-2	3/4-16 2 Way	6.5 LPM	66.00
LFR-08-M7.0		250 Bar	08-2	3/4-16 2 Way	7.0 LPM	66.00
LFR-08-2.5GPM		250 Bar	08-2	3/4-16 2 Way	9.5 LPM	66.00

Please Advise Flow Range



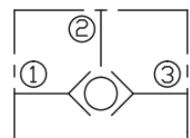
Manual 2 Position Directional Valves

Part Number		Pressure	Common Cavity		Flow Rate	List
LMP-08-L		210 Bar	08-2	3/4-16 2 Way	30 LPM	163.00
LMP-08-4-L		207 Bar	08-4	3/4-16 4 Way	12 LPM	163.00



Shuttle Valve - Inline Ball Type

Part Number		Pressure	Flow Rate	List
LSLV-G18		250 Bar	15 LPM	32.00

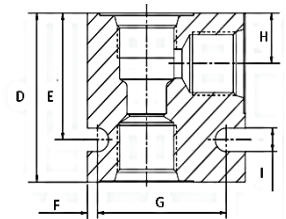
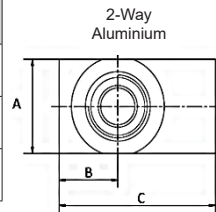


Bodies BSPP Ports Aluminium and Steel Housings to Suit Cartridge Valves



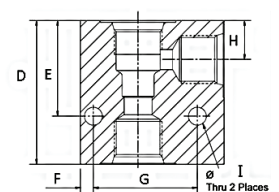
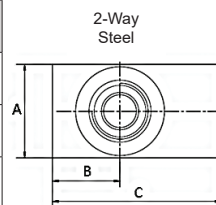
2 Port Aluminium Bodies					
Part Number	Max Pressure	Common Cavity		Ports	List
LB08-2-A-2G	210 Bar	08-2	3/4-16 2 Way	1/4" BSPP	35.00
LB08-2-A-3G	210 Bar	08-2	3/4-16 2 Way	3/8" BSPP	35.00
LB10-2-A-3G	210 Bar	10-2	7/8-14 2 Way	3/8" BSPP	37.00
LB10-2-A-4G	210 Bar	10-2	7/8-14 2 Way	1/2" BSPP	37.00
LB12-2-A-4G	210 Bar	12-2	1-1/16-12 2 Way	1/2" BSPP	63.00
LB12-2-A-6G	210 Bar	12-2	1-1/16-12 2 Way	3/4" BSPP	63.00
LB12-2-A-8G	210 Bar	12-2	1-1/16-12 2 Way	1" BSPP	73.00

	A	B	C	D	E	F	G	H	I
LB08-2-A-**-	28.7	19.05	50.8	50.8	38.1	3.3	41.4	15.2	7.11
LB10-2-A-**-	31.75	19.05	50.8	50.8	38.1	3.3	41.4	19.05	7.11
LB12-2-A-**-	50.8	28.7	76.2	76.2	57.2	4.1	65	26.2	8.6



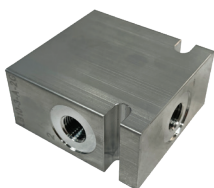
2 Port Steel Bodies					
Part Number	Max Pressure	Common Cavity		Ports	List
LB08-2-S-2G	350 Bar	08-2	3/4-16 2 Way	1/4" BSPP	49.00
LB08-2-S-3G	350 Bar	08-2	3/4-16 2 Way	3/8" BSPP	49.00
LB08-2-S-3G3 Special	350 Bar	08-2	3/4-16 2 Way	3/8" BSPP x 3 Through Ports	77.00
LB10-2-S-3G	350 Bar	10-2	7/8-14 2 Way	3/8" BSPP	57.00
LB10-2-S-4G	350 Bar	10-2	7/8-14 2 Way	1/2" BSPP	59.00
LB12-2-S-6G	350 Bar	12-2	1-1/16-12 2 Way	3/4" BSPP	93.00
LB12-2-S-8G	350 Bar	12-2	1-1/16-12 2 Way	1" BSPP	95.00
LB16-2-S-6G	350 Bar	16-2	1-5/16-12 2 Way	3/4" BSPP	124.00
LB16-2-S-8G	350 Bar	16-2	1-5/16-12 2 Way	1" BSPP	126.00

	A	B	C	D	E	F	G	H	I
LB08-2-S-**-	31.75	22.9	57.15	57.15	38.1	5.08	41.4	15.49	7.14
LB10-2-S-**-	35.05	22.86	57.15	57.15	38.1	5.08	41.4	19.08	7.14
LB12-2-S-**-	50.8	33.7	82.6	88.9	57.2	8.9	65	26.9	8.6
LB16-2-S-**-	50.8	33.8	82.6	88.9	57.2	8.9	65	25.4	8.6



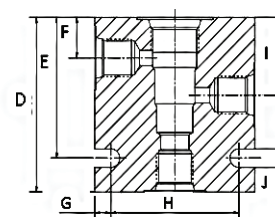
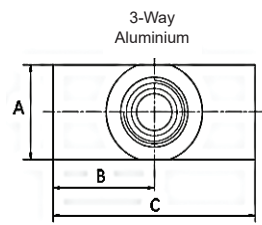
Bodies BSPP Ports

Aluminium and Steel Housings to Suit Cartridge Valves



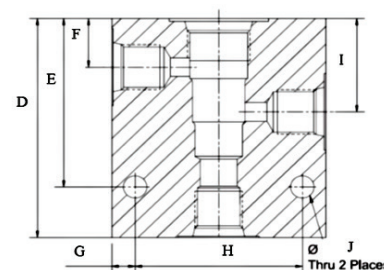
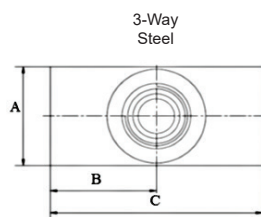
3 Port Aluminium Bodies					
Part Number	Max Pressure	Cavity		Ports	List
LB08-3-A-3G	210 Bar	08-3	3/4-16 3 Way	3/8" BSPP	47.00
LB10-3-A-2G	210 Bar	10-3	7/8-14 3 Way	1/4" BSPP	57.00
LB10-3-A-3G	210 Bar	10-3	7/8-14 3 Way	3/8" BSPP	59.00

	A	B	C	D	E	F	G	H	I	J
LB08-3-A-**	28.7	31.75	63.5	66.5	53.8	15.2	6.35	50.8	29.7	7.11
LB10-3-A-**	31.75	31.75	63.5	66.5	53.8	18.8	6.35	50.8	34.5	7.11



3 Port Steel Bodies					
Part Number	Max Pressure	Cavity		Ports	List
LB08-3-S-2G	350 Bar	08-3	3/4-16 3 Way	1/4" BSPP	71.00
LB08-3-S-3G	350 Bar	08-3	3/4-16 3 Way	3/8" BSPP	71.00
LB10-3-S-2G	350 Bar	10-3	7/8-14 3 Way	1/4" BSPP	83.00
LB10-3-S-3G	350 Bar	10-3	7/8-14 3 Way	3/8" BSPP	83.00
LB12-3-S-4G	350 Bar	12-3	1-1/16-12 3 Way	1/2" BSPP	102.00

	A	B	C	D	E	F	G	H	I	J
LB08-3-S-**	31.75	32.5	65	69.8	53.8	15.5	7.11	50.8	29.7	7.14
LB10-3-S-**	35.1	33	65	69.8	53.8	19.05	7.11	50.8	34.5	7.14

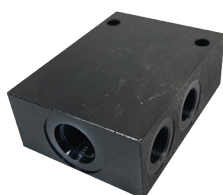
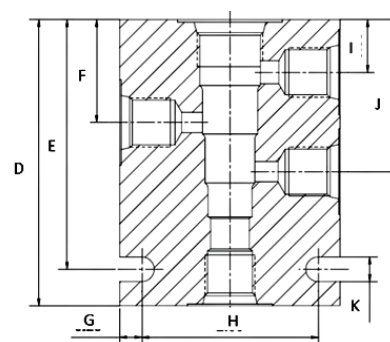
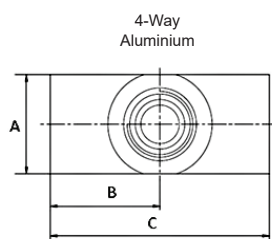


Bodies BSPP Ports Aluminium and Steel Housings to Suit Cartridge Valves



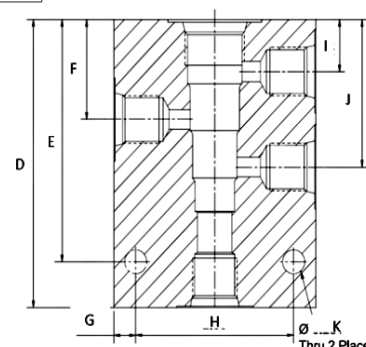
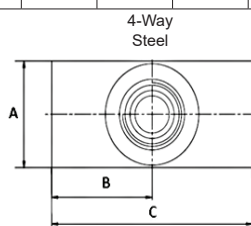
4 Port Aluminium Bodies					
Part Number	Max Pressure	Cavity		Ports	List
LB08-4-A-2G	210 Bar	08-4	3/4-16 4 Way	1/4" BSPP	63.00
LB08-4-A-3G	210 Bar	08-4	3/4-16 4 Way	3/8" BSPP	63.00
LB10-4-A-2G	210 Bar	10-4	7/8-14 4 Way	1/4" BSPP	71.00
LB10-4-A-3G	210 Bar	10-4	7/8-14 4 Way	3/8" BSPP	71.00
LB10-4-A-3G/S	210 Bar	10-4	7/8-14 4 Way	3/8" BSPP	75.00

	A	B	C	D	E	F	G	H	I	J	K
LB08-4-A-**	28.7	31.75	63.5	82.5	72.1	29.7	6.35	50.8	15.2	43.9	7.11
LB10-4-A-**	31.75	31.75	63.5	82.5	72.1	34.5	6.35	50.8	18.8	50.5	7.11



4 Port Steel Bodies					
Part Number	Max Pressure	Cavity		Ports	List
LB08-4-S-2G	350 Bar	08-4	3/4-16 4 Way	1/4" BSPP	93.00
LB08-4-S-3G	350 Bar	08-4	3/4-16 4 Way	3/8" BSPP	93.00
LB10-4-S-2G	350 Bar	10-4	7/8-14 4 Way	1/4" BSPP	105.00
LB10-4-S-3G	350 Bar	10-4	7/8-14 4 Way	3/8" BSPP	105.00

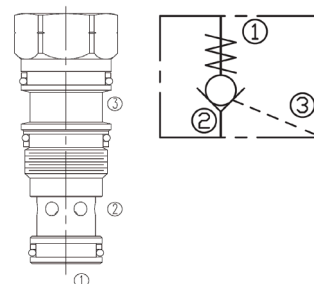
	A	B	C	D	E	F	G	H	I	J	K
LB08-4-S-**	31.75	32.5	65	85.9	72.1	29.7	7.11	50.8	15.5	43.9	7.14
LB10-4-S-**	35	32	65	85.9	72.1	34.5	7.11	50.8	19	50.5	7.14



Sun Type Cavity Cartridges and Bodies Aluminium and Steel

Pilot Operated Check Valves - SUN Type

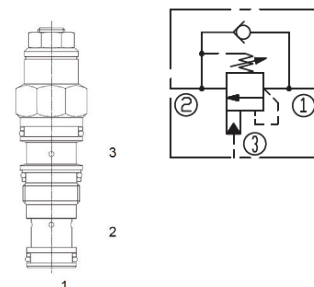
Part Number	Description	Pressure Bar	Cracking Pressure	Ratio	Cavity	Max Flow Rate LPM	List
LCKCB-XCN	Pilot to Open	350	2.0 Bar	3:1	SUN T-11A	60	TBA
LCODA-XCN	Pilot to Close	350	2.0 Bar	1.8:1	SUN T-11A	80	TBA



Counterbalance Cartridge - Sun Type Cavity

Part Number	Description	Pressure Range Bar	Ratio	Cavity	Check	Max Flow Rate LPM	List
LCBCA-LAN	Counter Balance	70-280	3:1	SUN T-11A	0.3 Bar	60 LPM	126.00
LCBCA-LHN		70-280	3:1	SUN T-11A	1.7 Bar	60 LPM	126.00
LCBEA-LAN		70-280	3:1	SUN T-2A	0.3 Bar	120 LPM	174.00
LCBEG-LJN		140-350	4.5	SUN T-2A	1.7Bar	120 LPM	218.00

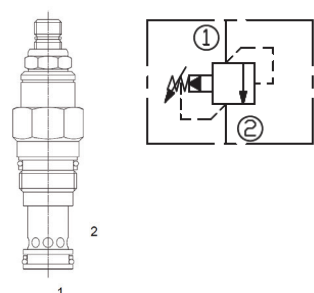
Bodies to suit on next page



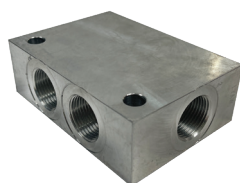
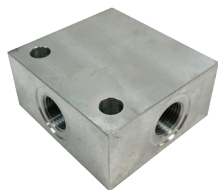
Relief Valve Cartridge - Sun Type Cavity

Part Number	Description	Pressure Range Bar	Cavity	Max Flow Rate LPM	List
LRPEE-KDN	Pilot Operated Relief	2-55	SUN T-10A	95 LPM	105.00
LRPEE-LAN		7-210	SUN T-10A	95 LPM	105.00
LRPEC-LCN		7-210	SUN T-10A	100 LPM	105.00
LRPGC-LAN		7-210	SUN T-3A	200 LPM	131.00

Bodies to suit on next page



Sun Type Cavity Bodies



Aluminium Bodies				
Part Number	Description	Cavity	Ports	List
LBCV	3 Port Body	T-2A	1/2" BSPP	95.00
LBCW	3 Port Body	T-2A	3/4" BSPP	95.00
LCAV	2 Port Body	T-3A	1/2" BSPP	63.00
LCAW	2 Port Body	T-3A	3/4" BSPP	63.00
LCAX	2 Port Body	T-3A	1" BSPP	160.00
LECU	3 Port Body	T-11A	3/8" BSPP	71.00
LECV	3 Port Body	T-11A	1/2" BSPP	71.00
LFAT	2 Port Body	T-10A	1/4" BSPP	57.00
LFAU	2 Port Body	T-10A	3/8" BSPP	57.00
LFAV	2 Port Body	T-10A	1/2" BSPP	65.00
LFAW	2 Port Body	T-10A	3/4" BSPP	65.00
LHCW	3 Port Body	T-17A	3/4" BSPP	172.00
LHCY	3 Port Body	T-17A	1 1/4" BSPP	172.00
LIAW	2 Port Body	T-16A	3/4" BSPP	174.00
LIAX	2 Port Body	T-16A	1" BSPP	174.00
LIAY	2 Port Body	T-16A	1 1/4" BSPP	174.00
LYAV	4 Port Body	T-2A x2	1/2" BSPP	170.00
LYAW	4 Port Body	T-2A x2	3/4" BSPP	170.00
LYEK	4 Port Body	T-11A x2	SAE-10 7/8" UNO	131.00
LYEV	4 Port Body	T-11A x2	1/2" BSPP	131.00

Steel Bodies				
Part Number	Description	Cavity	Ports	List
LBCW-S	3 Port Body	T-2A	3/4" BSPP	131.00
LCAW-S	2 Port Body	T-3A	3/4" BSPP	95.00
LCAX-S	2 Port Body	T-3A	1" BSPP	279.00
LECV-S	3 Port Body	T-11A	1/2" BSPP	102.00
LFAV-S	2 Port Body	T-10A	1/2" BSPP	95.00
LHCY-S	3 Port Body	T-17A	1 1/4" BSPP	257.00
LIAX-S	2 Port Body	T-16A	1" BSPP	245.00
LYAW-S	4 Port Body	T-2A x2	3/4" BSPP	257.00
LYEV-S	4 Port Body	T-11A x2	1/2" BSPP	196.00

Directional Valve

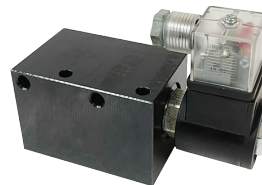
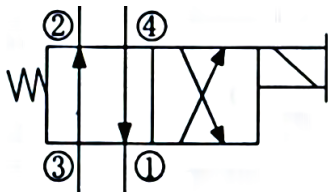
1/4" BSPP Ports

2 Position, 4 Port Steel Body

207 Bar

11 LPM

Quick Hitch Valve Steel Body, 1/4" BSPP Ports, 207 Bar, Including LED Din Plug					
Individual Parts					Complete Assembly List
Part Number	Description	Voltage DC		List Each	
LB-TIMA-S01012	Q/Hitch Manifold Block			106.00	299.00
LSV2-08-4-CO	Solenoid Cartridge 4 Port 2 Position			119.00	
LC2-08-C-1H	Coil 12 Volt VDC Round	12V		29.00	
LC2-08-C-2H	Coil 24 Volt VDC Round		24V	29.00	
18209-10-50V	Din Plug Connector with LED			20.00	



Directional Valve with Pressure Reducing Cartridge

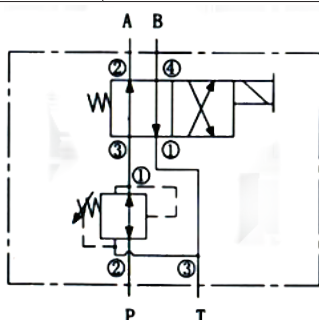
1/4" BSPP Ports

2 Position, 4 Port Steel Body

350 Bar

11 LPM

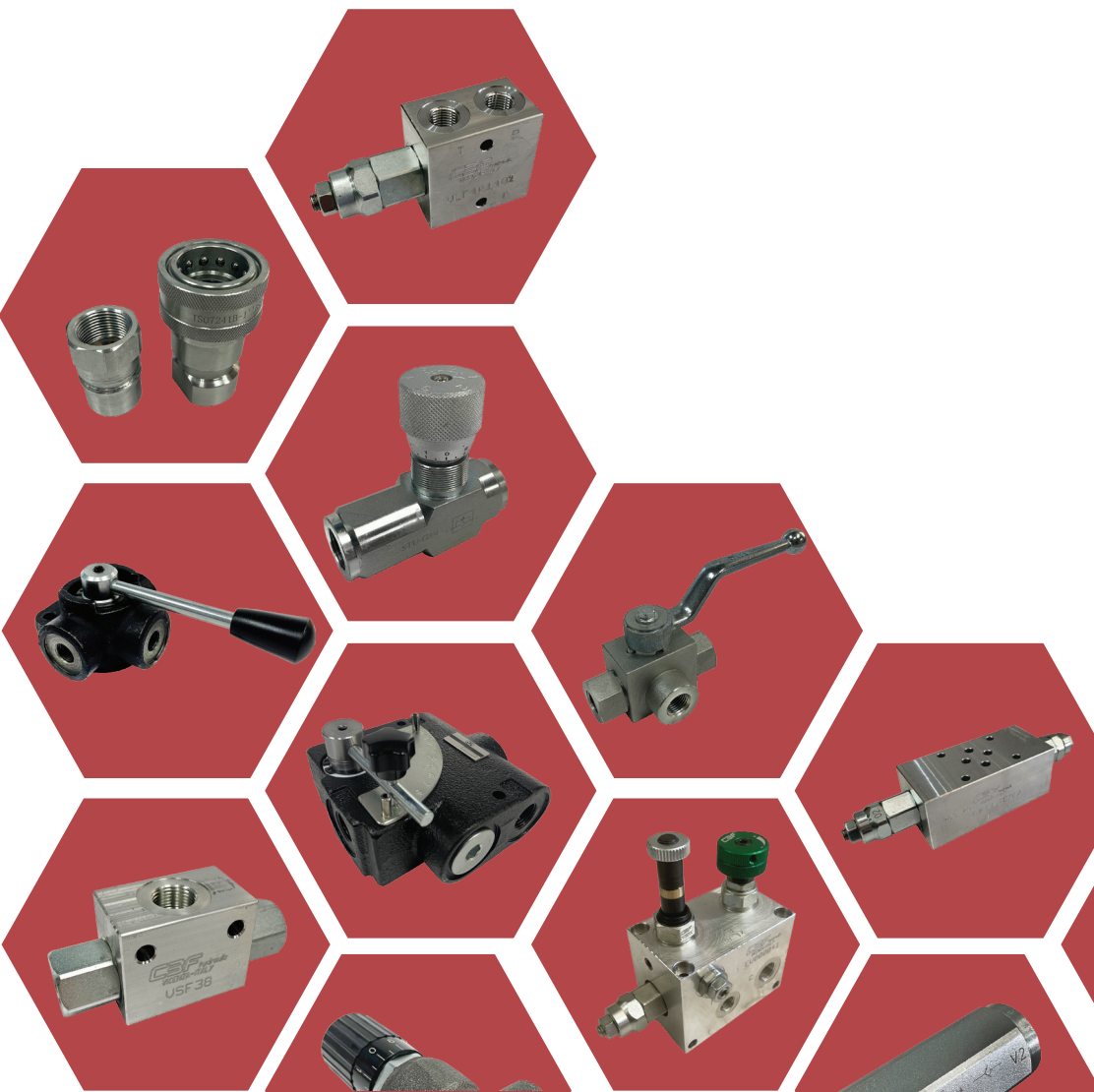
Quick Hitch Valve with Pressure Reducer Steel Body, 1/4" BSPP Ports, 350 Bar, Inlcuding LED Din Plug					
Individual Parts					Complete Assembly List
Part Number	Description	Voltage DC		List Each	
LB-TIMA-S02012	Q/Hitch Manifold Block			165.00	597.00
LSV2-08-4-CO	Solenoid Cartridge 4 Port 2 Position			119.00	
LPRPS2-10-50	Pressure Reducing Cartridge 5-350 Bar			211.00	
LC2-08-C-1H	Coil 12 Volt VDC Round	12V		29.00	
LC2-08-C-2H	Coil 24 Volt VDC Round		24V	29.00	
18209-10-50V	Din Plug Connector with LED			20.00	







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Timalco Hydraulics



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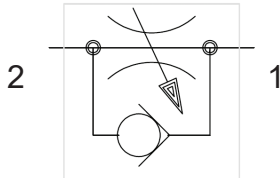


Cartridges & Spare Parts
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Needle Valves

Part Number	Max Flow	Max Pressure	Ports	List
STB-G14	15 LPM	350 Bar	1/4" BSPP	55.00
STB-G38	30 LPM	350 Bar	3/8" BSPP	69.00
STB-G12	45 LPM	350 Bar	1/2" BSPP	83.00
STB-G34	60 LPM	300 Bar	3/4" BSPP	110.00
STB-G1	76 LPM	300 Bar	1" BSPP	161.00



Flow Control with Reverse Free Flow

Part Number	Max Flow	Max Pressure	Ports	List
STU-G14	15 LPM	350 Bar	1/4" BSPP	61.00
STU-G38	30 LPM	350 Bar	3/8" BSPP	72.00
STU-G12	45 LPM	350 Bar	1/2" BSPP	88.00
STU-G34	60 LPM	350 Bar	3/4" BSPP	109.00
STU-G1	76 LPM	300 Bar	1" BSPP	160.00



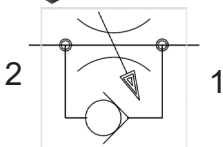
Mounting Nuts

Part Number	Panel Mount Nuts	List
ST-14-Nuts	To Suit STB & STU - 14	10.00
ST-38-Nuts	To Suit STB & STU - 38	10.00
ST-12-Nuts	To Suit STB & STU - 12	10.00
ST-34-Nuts	To Suit STB & STU - 34	13.00
ST-1-Nuts	To Suit STB & STU - 1	13.00



Needle Valves

Part Number	Max Flow	Max Pressure	Ports	List
LG-8	15 LPM	315 Bar	1/4" BSPP	55.00
LG-10	30 LPM		3/8" BSPP	69.00
LG-12	45 LPM		1/2" BSPP	83.00
LG-16	60 LPM		3/4" BSPP	110.00



Flow Control with Reverse Free Flow

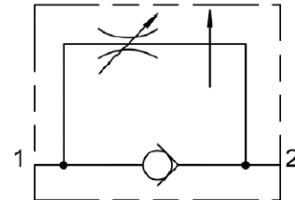
Part Number	Max Flow	Max Pressure	Ports	List
LAG-8	15 LPM	315 Bar	1/4" BSPP	61.00
LAG-10	30 LPM		3/8" BSPP	72.00
LAG-12	45 LPM		1/2" BSPP	88.00
LAG-16	60 LPM		3/4" BSPP	109.00



Pressure Compensated Flow Control Valves

Inline with reverse free flow

Part Number	Max Flow	Max Pressure	Ports	List
VCC014G	10	250 Bar	1/4" BSPP	182.00
VCC038G	18		3/8" BSPP	182.00
VCC012G	33		1/2" BSPP	218.00



Adjustable, Lockable, Steel Knob

Barrel Flow Control Valves



Part Number	Max Flow	Max Pressure	Ports	List
VRFU-038G	30 LPM	350 Bar	3/8" BSPP	95.00
VRFU-012G	45 LPM	350 Bar	1/2" BSPP	108.00
VRFU-034G	85 LPM	300 Bar	3/4" BSPP	165.00
VRFU-100G	150 LPM	250 Bar	1" BSPP	251.00
VRFU-114G	200 LPM	250 Bar	1 1/4" BSPP	656.00

High Pressure Ball Valves

Ball Valves 2 Way Inline



Part Number	Max Flow	Max Pressure	Ports	List
KHB-G14	15 LPM	500 Bar	1/4" BSPP	38.00
KHB-G38	30 LPM	500 Bar	3/8" BSPP	43.00
KHB-G12	60 LPM	500 Bar	1/2" BSPP	51.00
KHB-G34	80 LPM	380 Bar	3/4" BSPP	88.00
KHB-G1	125 LPM	350 Bar	1" BSPP	110.00
KHB-G114	125 LPM	280 Bar	1 1/4" BSPP	201.00
KHB-G112	125 LPM	220 Bar	1 1/2" BSPP	297.00



Ball Valves 3 Way

Part Number	Max Flow	Max Pressure	Ports	List
KHB3K-G14	15 LPM	380 Bar	1/4" BSPP	53.00
KHB3K-G38	30 LPM	380 Bar	3/8" BSPP	61.00
KHB3K-G12	60 LPM	320 Bar	1/2" BSPP	75.00
KHB3K-G34	80 LPM	300 Bar	3/4" BSPP	143.00
KHB3K-G1	125 LPM	280 Bar	1" BSPP	160.00



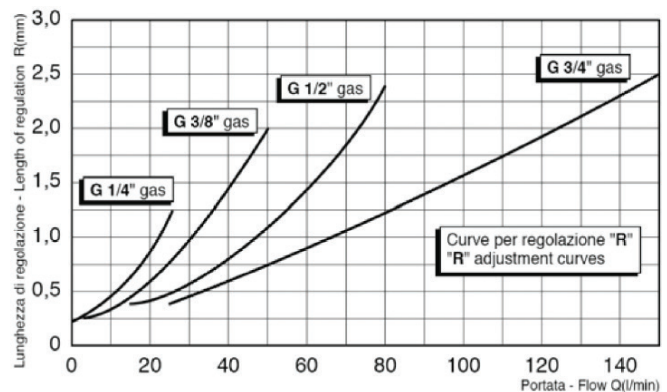
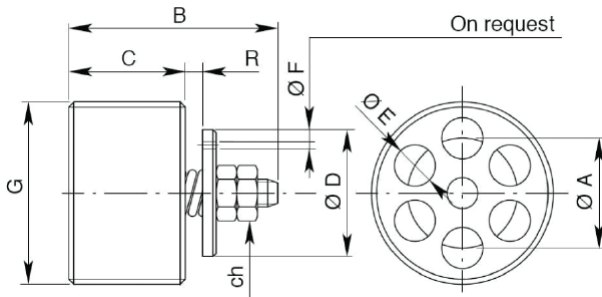
Hose Burst Valves

Part Number	Ports	Preset	Max Flow	Max Pressure	List
VPN14FF	1/4" BSPP	0.5mm	25 LPM	350 Bar	53.00
VPN38FF	3/8" BSPP	0.5mm	50 LPM		53.00
VPN12FF	1/2" BSPP	0.7mm	80 LPM		59.00
VPN34FF	3/4" BSPP	0.7mm	150 LPM		80.00



Hose Burst - Cartridge Only

Part Number	Ports	Preset	Max Flow	Max Pressure	List
VPN14	1/4" BSPP	0.5mm	25 LPM	350 Bar	39.00
VPN38	3/8" BSPP	0.5mm	50 LPM		39.00
VPN12	1/2" BSPP	0.7mm	80 LPM		47.00
VPN34	3/4" BSPP	0.7mm	150 LPM		71.00



Important - Settings are approximate only. Actual settings must be confirmed at installation/commissioning.

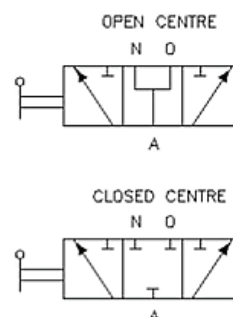
Dimensions

Part Number	G	A	B	C	D	E	H	R	Ch
VPN-14	1/4" Gas	8.5	17.5	8	9.5	2.4	11	0.5	5.5
VPN-38	3/8" Gas	10.5	23	10.5	12.5	3.5	11	0.5	5.5
VPN-12	1/2" Gas	13	25	12	15	4.5	15	0.7	7
VPN-34	3/4" Gas	16	30.5	17	18	6	16	0.7	7



3 Way Selector Valves

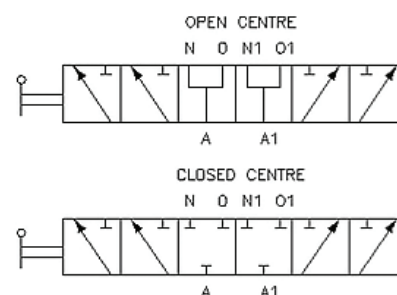
Open & Closed Centre



Part Number		Max Flow LPM	Pressure Bar	Ports BSP	Weight Kgs	List
Open Centre	Closed Centre					
D3-14GCA	D3-14GCC	60	350	1/4"	0.8	81.00
D3-38GCA	D3-38GCC	60	350	3/8"	0.8	81.00
D3-12GCA	D3-12GCC	90	350	1/2"	1.2	87.00
D3-34GCA	D3-34GCC	120	350	3/4"	1.8	99.00
D3-1GCA	D3-1GCC	200	300	1"	2.7	138.00
D6AK		D6 Assembly Kit (Joins 2 x D3's together)				13.00

6 Way Selector Valves

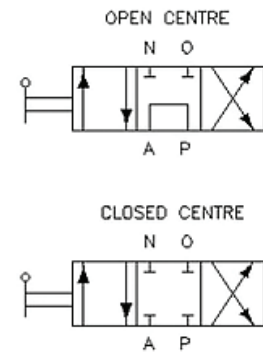
Open & Closed Centre



Part Number		Flow LPM	Pressure Bar	Ports BSP	Weight Kgs	List
Open Centre	Closed Centre					
D6-14GCA	D6-14GCC	60 + 60	350	1/4"	1.5	172.00
D6-38GCA	D6-38GCC	60 + 60	350	3/8"	1.5	172.00
D6-12GCA	D6-12GCC	90 + 90	350	1/2"	2.3	186.00
D6-34GCA	D6-34GCC	120 + 120	350	3/4"	3.5	211.00
D6-1GCA	D6-1GCC	200 + 200	300	1"	5.3	289.00
D6AK		D6 Assembly Kit (Joins 2 x D3's together)				13.00

4 Way Selector Valves

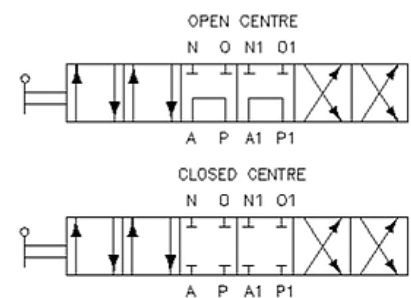
Open & Closed Centre



Part Number		Flow LPM	Pressure Bar	Ports BSP	Weight Kgs	List
Open Centre	Closed Centre					
D4-14GCA	D4-14GCC	60	350	1/4"	0.8	114.00
D4-38GCA	D4-38GCC	60	350	3/8"	0.8	114.00
D4-12GCA	D4-12GCC	90	350	1/2"	1.2	124.00
D4-34GCA	D4-34GCC	120	350	3/4"	1.8	178.00
D4-1GCA	D4-1GCC	200	300	1"	2.7	186.00
D8AK		D8 Assembly Kit (Joins 2 x D4's together)				17.00

8 Way Selector Valves

Open & Closed Centre



Part Number		Flow LPM	Pressure Bar	Ports BSP	Weight Kgs	List
Open Centre	Closed Centre					
D8-14GCA	D8-14GCC	60 + 60	350	1/4"	1.5	240.00
D8-38GCA	D8-38GCC	60 + 60	350	3/8"	1.5	240.00
D8-12GCA	D8-12GCC	90 + 90	350	1/2"	2.3	259.00
D8-34GCA	D8-34GCC	120 + 120	350	3/4"	3.5	366.00
D8-1GCA	D8-1GCC	200 + 200	300	1"	5.3	385.00
D8AK		D8 Assembly Kit (Joins 2 x D4's together)				17.00



Single or Stackable 6 Port Selector Valves

3/8" or 1/2" BSPP Ports

12 & 24 VDC

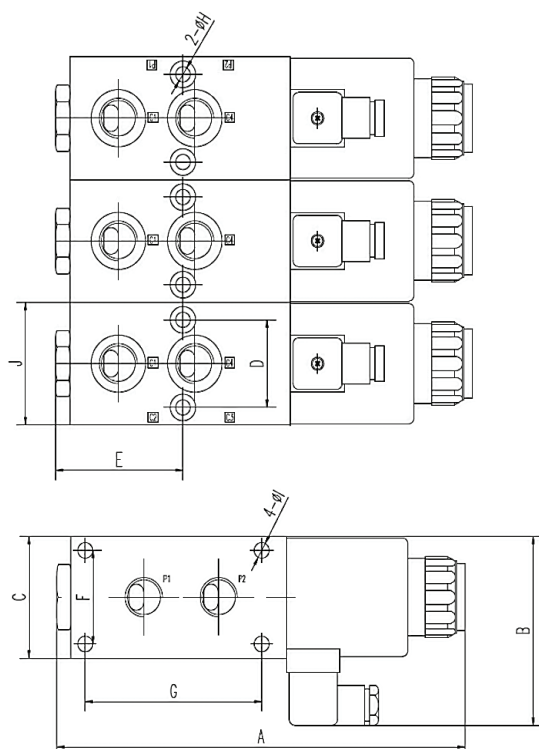


Part Number	Ports	Max Flow	Max Pressure	Voltage	List
HYE6238-D12	3/8" BSPP	40 LPM	250 Bar	12 VDC	291.00
HYE6238-D24	3/8" BSPP	40 LPM	250 Bar	24 VDC	291.00
HYE6212-D12	1/2" BSPP	60 LPM	250 Bar	12 VDC	327.00
HYE6212-D24	1/2" BSPP	60 LPM	250 Bar	24 VDC	327.00

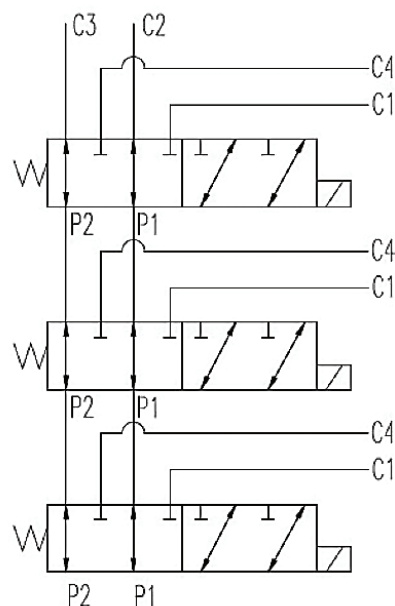
Specifications

	Max Pressure	Max Flow Rate	Hydraulic Fluid	Fluid Temperature Range	Recommended Viscosity
E6238	250 Bar	40 LPM	Mineral Oil, Phosphate Ester	-20 ~ 80°C	10 ~ 400 ² mm
E6212		60 LPM			

Dimensions



Spool Function



Dimensions

	A	B	C	D	E	F	G	H	I	J
E6238	175.2	84	52	36	57.5	38	42	6.4	6	52
E6212	229	100.6	65	46	70	50	99	8	8.4	65



QR Couplings - Poppet Type

Part Number	Type	Max Flow LPM	Max Pressure Bar	Ports BSPP	List
QRC-S2-02-G14	Complete	12	345	1/4"	35.00
QRC-S2-02-G14F	Female				
QRC-S2-02-G14M	Male				
QRC-S2-03-G38	Complete	25	276	3/8"	37.00
QRC-S2-03-G38F	Female				
QRC-S2-03-G38M	Male				
QRC-S2-04-G12	Complete	45	276	1/2"	51.00
QRC-S2-04-G12F	Female				
QRC-S2-04-G12M	Male				
QRC-S2-06-G34	Complete	105	173	3/4"	83.00
QRC-S2-06-G34F	Female				
QRC-S2-06-G34M	Male				
QRC-S2-08-G1	Complete	185	138	1"	129.00
QRC-S2-08-G1F	Female				
QRC-S2-08-G1M	Male				



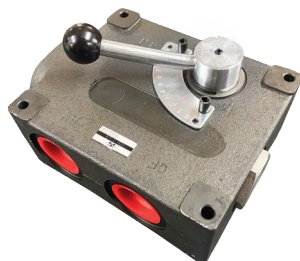
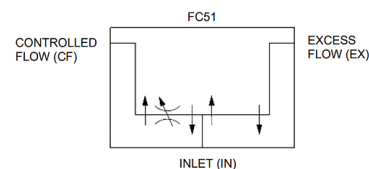
QR Couplings - Flat Face Type

Part Number	Type	Max Flow LPM	Max Pressure Bar	Ports BSPP	List
QRC-PT-G38	Complete	22	250	3/8"	129.00
QRC-PT-G38F	Female				
QRC-PT-G38M	Male				
QRC-PT-G12	Complete	45	250	1/2"	168.00
QRC-PT-G12F	Female				
QRC-PT-G12M	Male				
QRC-PT-G34	Complete	75	250	3/4"	240.00
QRC-PT-G34F	Female				
QRC-PT-G34M	Male				
QRC-PT-G1	Complete	100	250	1"	277.00
QRC-PT-G1F	Female				
QRC-PT-G1M	Male				



Lever Operated Priority Flow
BSPP Ports
With or Without Relief
207 Bar Max Pressure

Part Number	Ports	Max Flow P	CF Flow Priority	Relief	List
FC51-12	1/2" BSPP	60 LPM	0-80 LPM	No Relief	255.00
FC51-34	3/4" BSPP	100 LPM	0-100 LPM	No Relief	255.00
FCR51-12	1/2" BSPP	80 LPM	0-80 LPM	With Relief	279.00
FCR51-34	3/4" BSPP	114 LPM	0-100 LPM	With Relief	279.00



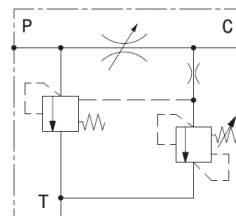
300 LPM Lever Operated Priority Flow
BSPP Ports Without Relief

Part Number	Ports	Max Flow P	CF Flow Priority	Max Pressure	List
FC51-11/4	1 1/4" BSPP	300 LPM	0-180 LPM	207 Bar	843.00



Priority Flow
220 LPM Max
With Relief

Part Number	Ports				Max Flow P	Max Flow C Priority	Max Pressure	List
	P	T	C					
RFAVLP10-12C	1/2" BSPP				100 LPM	65 LPM	250 Bar	520.00
RFAVLP10-34C	3/4" BSPP				150 LPM	90 LPM		702.00
RFAVLP10-10C	1" BSPP				220 LPM	190 LPM		999.00

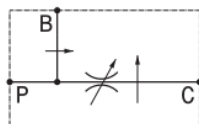


Steel Priority Flow
With or Without Relief

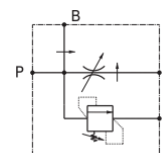
Part Number	Ports				Max Flow P	Max Flow C Priority	Max Pressure	List
	P	T	B	C				
RFG	3/4" BSPP		1/2" BSPP		90 LPM	50 LPM	350 Bar	387.00
RFGV	3/4" BSPP		1/2" BSPP		90 LPM	50 LPM		444.00



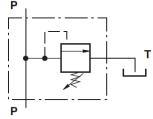
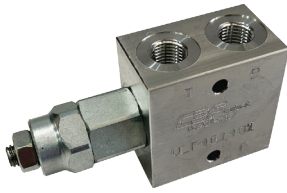
RFG



RFGV
with Relief Valve

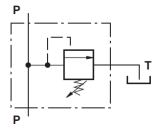


Relief Valves



Part Number	Ports		Max Flow	Max Pressure	List
	P	T			
VLP401402	1/4" BSPP		25 LPM	250 Bar	157.00
VLP403802	3/8" BSPP		35 LPM	250 Bar	165.00
VLP401202	1/2" BSPP		40 LPM	250 Bar	173.00
VLP803402	3/4" BSPP		80 LPM	250 Bar	225.00
VLP1303402	3/4" BSPP		100 LPM	250 Bar	327.00
VLP1301002	1" BSPP		130 LPM	250 Bar	377.00

Inline and Tank Mounted Relief Valves



Part Number	Ports		Max Flow	Max Pressure	List
	P	T			
VLP40L3802	3/8" BSPP		35 LPM	250 Bar	129.00
VLP40L1202	1/2" BSPP		40 LPM	250 Bar	130.00
VLP80L1202	1/2" BSPP		80 LPM	250 Bar	192.00
VLP80L3402	3/4" BSPP		80 LPM	250 Bar	198.00
VLP130L3402	3/4" BSPP		100 LPM	250 Bar	319.00
VLP130L1002	1" BSPP		130 LPM	250 Bar	336.00

Spring Options

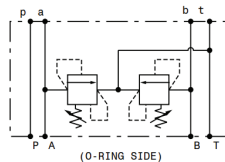
Code	Standard Setting Bar (Q=5L/min)	Adjustment Pressure Range Bar	Colour
01	80	20 - 100	White
02	180	40 - 250	Yellow
03	250	60 - 350	Black

Modular Relief Valves Cetop 3 (NG6)

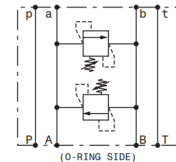


Part Number	Description	Max Flow	Max Pressure	List
VLP40DFC302	A & B to T	40 LPM	250 Bar	351.00
VLP40DIFC302	Crossline (A to B) (B to A)	40 LPM	250 Bar	388.00

DFC



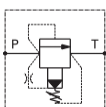
DIFC



200 LPM Steel Relief Valve



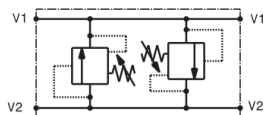
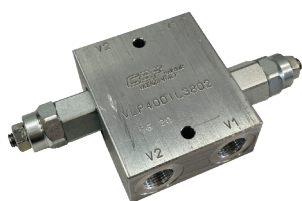
Pilot Operated



Part Number	Ports		Max Flow	Max Pressure	List
	P	T			
VLP200P1003	1" BSPP		200 LPM	350 Bar	453.00

Springs

Code	STD Setting Bar (Q=5L/min)	Adjustment Pressure Range (Bar)	Colour
03	250	60 - 350	Black

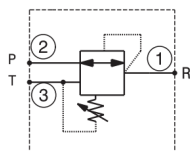


Crossline Relief Valves

Part Number	Ports		Max Flow	Max Pressure	List
	V	V1			
VLP40DIL3802	3/8" BSPP		40 LPM	250 Bar	267.00
VLP40DIL1202	1/2" BSPP		40 LPM	250 Bar	275.00
VLP80DIL3402	3/4" BSPP		80 LPM	250 Bar	380.00
VLP130DIL1002	1" BSPP		130 LPM	250 Bar	715.00

Springs

Code	Standard Setting Bar (Q=5L/min)	Adjustment Pressure Range Bar	Colour
01	80	20 - 100	White
02	180	40 - 250	Yellow
03	250	60 - 350	Black



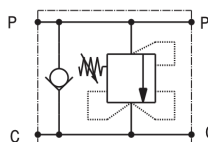
Pressure Reducer

Part Number	Ports			Max Flow	Max Inlet Working Pressure	Max Regulated Pressure	List
	P	T	Reg				
RP251201A	1/2" BSPP			25 LPM	250 Bar	100 Bar	362.00
RP251202A	1/2" BSPP			25 LPM	250 Bar	180 Bar	362.00

Springs

Code	Standard Setting Bar (Q=5L/min)	Adjustment Pressure Range Bar	Colour
01	80	20 - 100	Yellow
02	150	40 - 180	Black

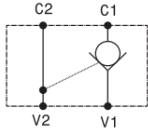
Sequence Valve



Part Number	Ports		Adjustment Range	Max Flow	Max Pressure	List
	P	C				
VSQ40LCC3802	3/8" BSPP		40-250	40 LPM	250 Bar	239.00
VSQ40LCC1201	1/2" BSPP		20-100	40 LPM	250 Bar	239.00
VSQ40LCC1202	1/2" BSPP		40-250	40 LPM	250 Bar	239.00
VSQ80LCC1202	1/2" BSPP		40-250	80 LPM	250 Bar	319.00

Springs

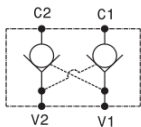
Code	Standard Setting Bar (Q=5L/min)	Adjustment Pressure Range Bar	Colour
01	80	20 - 100	White
02	180	40 - 250	Yellow
03	250	60 - 350	Black

ALUMINIUM Single Lock Valves

Part Number	V1 V2 C1 C2	Pilot Ratio	Max Flow	Max Pressure	List
VBSL14	1/4" BSPP	4:1	20 LPM	250 Bar	148.00
VBSL38	3/8" BSPP	4:1	35 LPM	250 Bar	152.00
VBSL12	1/2" BSPP	4:1	50 LPM	250 Bar	161.00
VBSL34	3/4" BSPP	4:1	80 LPM	250 Bar	238.00

STEEL Single Lock Valves

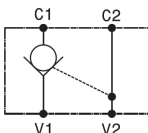
Part Number	V1 V2 C1 C2	Pilot Ratio	Max Flow	Max Pressure	List
VBSL14A	1/4" BSPP	4:1	20 LPM	350 Bar	171.00
VBSL38A	3/8" BSPP	4:1	35 LPM	350 Bar	174.00
VBSL12A	1/2" BSPP	4:1	50 LPM	350 Bar	185.00
VBSL34A	3/4" BSPP	4:1	80 LPM	350 Bar	250.00

ALUMINIUM Double Lock Valves

Part Number	V1 V2 C1 C2	Pilot Ratio	Max Flow	Max Pressure	List
VBDL14	1/4" BSPP	4:1	25 LPM	250 Bar	194.00
VBDL38	3/8" BSPP	4:1	35 LPM	250 Bar	165.00
VBDL12	1/2" BSPP	4:1	50 LPM	250 Bar	211.00
VBDL34	3/4" BSPP	4:1	80 LPM	250 Bar	360.00

STEEL Double Lock Valves

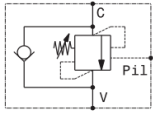
Part Number	V1 V2 C1 C2	Pilot Ratio	Max Flow	Max Pressure	List
VBDL14A	1/4" BSPP	4:1	25 LPM	350 Bar	227.00
VBDL38A	3/8" BSPP	4:1	35 LPM	350 Bar	229.00
VBDL12A	1/2" BSPP	4:1	50 LPM	350 Bar	250.00
VBDL34A	3/4" BSPP	4:1	80 LPM	350 Bar	446.00

ALUMINIUM Inline Lock Valves - Direct Cylinder Mount

Part Number	V1 V2 C1 C2	Type	Pilot Ratio	Max Flow	Max Pressure	List
VBS14SF	1/4" BSPP	Single	4:1	20 LPM	250 Bar	104.00
VBS38SF	3/8" BSPP	Single	4:1	35 LPM	250 Bar	109.00
VBS12SF	1/2" BSPP	Single	4:1	50 LPM	250 Bar	124.00
VBS34SP	3/4" BSPP	Single	4:1	80 LPM	250 Bar	184.00
VBD14SF	1/4" BSPP	Double	4:1	20 LPM	250 Bar	116.00
VBD38SF	3/8" BSPP	Double	4:1	35 LPM	250 Bar	121.00
VBD12SF	1/2" BSPP	Double	4:1	50 LPM	250 Bar	136.00
VBD34SP	3/4" BSPP	Double	4:1	80 LPM	250 Bar	225.00

STEEL Inline Lock Valves - Direct Cylinder Mount

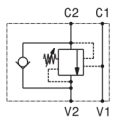
Part Number	V1 V2 C1 C2	Type	Pilot Ratio	Max Flow	Max Pressure	List
VBS14SF	1/4" BSPP	Single	4:1	20 LPM	350 Bar	114.00
VBS38SF	3/8" BSPP	Single	4:1	35 LPM	350 Bar	120.00
VBS12SF	1/2" BSPP	Single	4:1	50 LPM	350 Bar	136.00
VBS34SP	3/4" BSPP	Single	4:1	80 LPM	350 Bar	301.00
VBD14SF	1/4" BSPP	Double	4:1	20 LPM	350 Bar	124.00
VBD38SF	3/8" BSPP	Double	4:1	35 LPM	350 Bar	134.00
VBD12SF	1/2" BSPP	Double	4:1	50 LPM	350 Bar	149.00
VBD34SP	3/4" BSPP	Double	4:1	80 LPM	350 Bar	TBA



Single Overcentre Valves - External Pilot

Part Number	V2 C2	Pilot	Pilot Ratio	Max Flow	Max Pressure	List
OVCSE3802	3/8" BSPP	1/4" BSPP	4.25:1	40 LPM	250 Bar	208.00
OVCSE1202	1/2" BSPP	1/4" BSPP	4.25:1	60 LPM	250 Bar	220.00
OVCSE3402	3/4" BSPP	1/4" BSPP	4.25:1	100 LPM	250 Bar	323.00

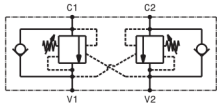
Low Pressure 20 - 200 Bar Range Available



Single Overcentre Valves - Internal Pilot

Part Number	V1 V2 C1 C2	Pilot Ratio	Max Flow	Max Pressure	Adjustment Range	List
OVCSEL3802	3/8" BSPP	4.25:1	40 LPM	250 Bar	50-350 Bar	220.00
OVCSEL1201	1/2" BSPP	4.25:1	60 LPM	250 Bar	20-200 Bar	229.00
OVCSEL1202	1/2" BSPP	4.25:1	60 LPM	250 Bar	50-350 Bar	229.00
OVCSEL3402	3/4" BSPP	4.25:1	100 LPM	250 Bar	50-350 Bar	347.00

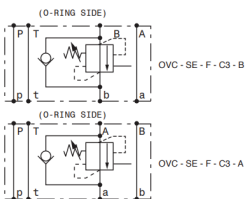
Low Pressure 20 - 200 Bar Range Available



Double Overcentre Valves

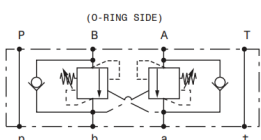
Part Number	V1 V2 C1 C2	Pilot Ratio	Max Flow	Max Pressure	Adjustment Range	List
OVCDEL3801	3/8" BSPP	4.25:1	40 LPM	250 Bar	20-200 Bar	343.00
OVCDEL3802	3/8" BSPP	4.25:1	40 LPM	250 Bar	50-350 Bar	343.00
OVCDEL1201	1/2" BSPP	4.25:1	60 LPM	250 Bar	20-200 Bar	351.00
OVCDEL1202	1/2" BSPP	4.25:1	60 LPM	250 Bar	50-350 Bar	351.00
OVCDEL3402	3/4" BSPP	4.25:1	100 LPM	250 Bar	50-350 Bar	648.00
OVCDEL1002	1" BSPP	4.25:1	120 LPM	250 Bar	50-350 Bar	670.00

Low Pressure - 20 - 200 Bar Range Available



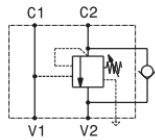
Modular Single Overcentre Valves

Part Number	Type	Pilot Ratio	Max Flow	Max Pressure	Adjustment Range	List
OVCSEFC3A01	Locked on A	4.25:1	35 LPM	250 Bar	20 - 200 Bar	437.00
OVCSEFC3A02	Locked on A	4.25:1	35 LPM	250 Bar	50 - 350 Bar	437.00
OVCSEFC3B01	Locked on B	4.25:1	35 LPM	250 Bar	20 - 200 Bar	437.00
OVCSEFC3B02	Locked on B	4.25:1	35 LPM	250 Bar	50 - 350 Bar	437.00



Modular Double Overcentre Valves

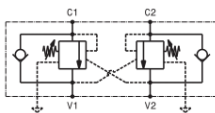
Part Number	Mount	Pilot Ratio	Max Flow	Max Pressure	Adjustment Range	List
OVCDEFC301	Cetop 3	4.25:1	35 LPM	250 Bar	20 - 200 Bar	640.00
OVCDEFC302	Cetop 3	4.25:1	35 LPM	250 Bar	50 - 350 Bar	640.00
OVCDEFC502	Cetop 5	4.25:1		250 Bar	50 - 350 Bar	906.00



Single CC Overcentre Valves - Internal Pilot

Insensitive to Back Pressure, Double Effect, Vented Spring Chamber

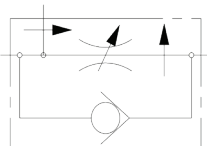
Part Number	V1 V2 C1 C2	Pilot Ratio	Max Flow	Max Pressure	List
OVCSELCC3802	3/8" BSPP	4.25:1	40 LPM	250 Bar	264.00
OVCSELCC1202	1/2" BSPP	4.25:1	60 LPM	250 Bar	269.00
OVCSELCC3402	3/4" BSPP	4.25:1	100 LPM	250 Bar	TBA



Double CC Overcentre Valves

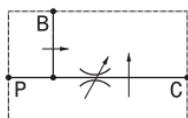
Insensitive to Back Pressure, Double Effect, Vented Spring Chamber

Part Number	V1 V2 C1 C2	Pilot Ratio	Max Flow	Max Pressure	List
OVCDELCC3802	3/8" BSPP	4.25:1	40 LPM	250 Bar	424.00
OVCDELCC1202	1/2" BSPP	4.25:1	60 LPM	250 Bar	424.00
OVCDELCC3402	3/4" BSPP	4.25:1	100 LPM	250 Bar	TBA
OVCDELCC1002	1" BSPP	4.25:1	120 LPM	250 Bar	TBA



Inline Priority Flow Valves

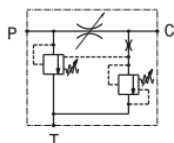
Part Number	C	B	P	Max Flow P	Max Flow C Priority	Max Pressure	List
RFP5012B	1/2" BSPP			40 LPM	25 LPM	250 Bar	358.00
RFP9034B	3/4" BSPP			90 LPM	50 LPM	250 Bar	387.00



Inline Priority Flow Valves

Part Number	P	B	C	Max Flow P	Max Flow C Priority	Max Pressure	List
RFPA38A	3/8" BSPP			60 LPM	35 LPM	250 Bar	439.00
RFPA12A	1/2" BSPP			90 LPM	55 LPM	250 Bar	439.00
RFPA34A	3/4" BSPP			150 LPM	90 LPM	250 Bar	TBA
RFPA10A	1" BSPP			380 LPM	190 LPM	250 Bar	TBA

Up to 220 LPM



Priority Flow with Relief

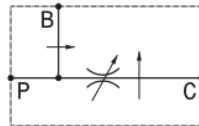
Part Number	P	T	C	Max Flow P	Max Flow C Priority	Max Pressure	List
RFAVLP10-12C	1/2" BSPP			100 LPM	65 LPM	250 Bar	520.00
RFAVLP10-34C	3/4" BSPP			150 LPM	90 LPM	250 Bar	702.00
RFAVLP10-10C	1" BSPP			220 LPM	190 LPM	250 Bar	999.00



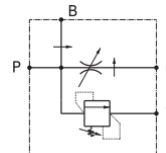
Priority Flow Control Valve - Steel

Part Number	P	T	B	C	Max Flow P	Max Flow C Priority	Max Pressure	List
RFG	3/4"		1/2"	1/2"	90 LPM	50 LPM	350 Bar	387.00
RFPV	3/4"	1/2"	1/2"	1/2"	90 LPM	50 LPM	350 Bar	444.00

RFG



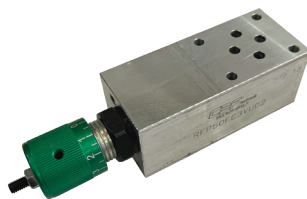
RFGV
with Relief Valve



Cetop 3

Modular Priority Flow Control Valves - no reverse flow

Part Number	Priority on	Max Flow P	Max Flow C Priority	Max Pressure	List
RFP50FC3B01	P Port	40 LPM	25 LPM	250 Bar	559.00
RFP50FC3B02	A Port	40 LPM	25 LPM	250 Bar	559.00
RFP50FC3B03	B Port	40 LPM	25 LPM	250 Bar	559.00



Cetop 5

Modular Priority Flow Control Valves - with reverse free flow

Part Number	Priority on	Max Flow P	Max Flow C Priority	Max Pressure	List
RFP50FC3VU02A	A Port	40 LPM	25 LPM	250 Bar	596.00
RFP50FC3VU03A	B Port	40 LPM	25 LPM	250 Bar	596.00

Modular Priority Flow Control Valves

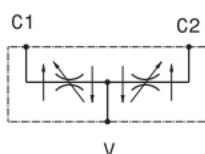
Part Number	Priority on	Max Flow P	Max Flow C Priority	Max Pressure	List
RFP90FC5PA	P Port	90 LPM	2 - 50 LPM	250 Bar	821.00
RFP90FC5AA	A Port	90 LPM	2 - 50 LPM	250 Bar	1060.00

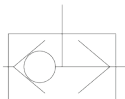


50/50 Flow Divider/Combiners

Part Number	V	C1 & C2	Ratio	Range	Max Pressure	List
DFR1201	1/2" BSPP	3/8" BSPP	50% - 50%	3 - 6 LPM	210 Bar	455.00
DFR1202	1/2" BSPP	3/8" BSPP		7 - 12 LPM		455.00
DFR1203	1/2" BSPP	3/8" BSPP		13 - 25 LPM		455.00
DFR1204	1/2" BSPP	3/8" BSPP		26 - 40 LPM		455.00
DFR1205	1/2" BSPP	3/8" BSPP		40 - 70 LPM		455.00
DFR3406	3/4" BSPP	1/2" BSPP		60 - 95 LPM		666.00
DFR1007	1" BSPP	3/4" BSPP		90 - 150 LPM		666.00

Up to 150 LPM





Shuttle Valves

Part Number	V V1 U	Max Flow	Max Pressure	List
VSF14	1/4" BSPP	20 LPM	250 Bar	68.00
VSF38	3/8" BSPP	40 LPM	250 Bar	74.00
VSF12	1/2" BSPP	60 LPM	250 Bar	92.00
VSF34A	3/4" BSPP	100 LPM	280 Bar	159.00

Inline Check Valves



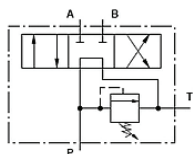
1 Bar Cracking				
Part Number	V1 V2	Max Flow	Max Pressure	List
VU14SF01	1/4" BSPP	15 LPM	500 Bar	32.00
VU38SF01	3/8" BSPP	30 LPM	500 Bar	32.00
VU12SF01	1/2" BSPP	50 LPM	500 Bar	43.00
VU34SF01	3/4" BSPP	90 LPM	350 bar	51.00
VU10SP01	1" BSPP	150 LPM	350 Bar	116.00

Inline Check Valves

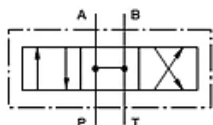


5 Bar Cracking				
Part Number	V1 V2	Max Flow	Max Pressure	List
VU14SF03	1/4" BSPP	15 LPM	500 Bar	32.00
VU38SF03	3/8" BSPP	30 LPM	500 Bar	32.00
VU12SF03	1/2" BSPP	50 LPM	500 Bar	43.00
VU34SF03	3/4" BSPP	90 LPM	350 Bar	57.00
VU10SP03	1" BSPP	150 LPM	350 Bar	118.00

Compact Manual Control Valves with Relief, 3/8" BSPP Ports



Symbol	Part Number	Control	Max Flow	Max Pressure	List
	DM1A1	3 Pos Spring Centred	30 LPM	350 Bar	278.00
	DM1A2	3 Pos Spring Centred			278.00
	DM1A3	3 Pos Spring Centred			278.00
	DM1D1	3 Pos Detent			278.00
	DM1D2	3 Pos Detent			278.00
	DM1D3	3 Pos Detent			278.00
	DM1Q2	2 Pos Detent			278.00



Cetop 3 (NG6) Cetop Mount

Symbol	Part Number	Control	Max Flow	Max Pressure	List
	DC3A1	3 Pos Spring Centred	30 LPM	350 Bar	413.00
	DC3A2	3 Pos Spring Centred			413.00
	DC3A3	3 Pos Spring Centred			413.00
	DC3D1	3 Pos Detent			413.00
	DC3D3	3 Pos Detent			413.00
	DC3Q2	2 Pos Detent			413.00
	DC3R2	2 Pos Spring Offset			453.00



Manual Rotary Directional Valve with Relief

Part Number	Max Flow	Max Pressure	List
DM4	10 LPM	400 Bar	470.00
DM41	10 LPM	250 Bar	500.00



Auto Cycle Valves Cetop Mount

Part Number	Cetop	Max Flow	Max Pressure	List
VADFC3	3	30 LPM	250 Bar	773.00
VADFC5	5	70 LPM	250 Bar	972.00

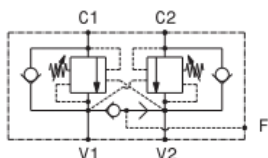


Crossline Relief Valves

Part Number	To suit Motor	Ports	Max Flow	Max Pressure	List
VLP40DFMD02OMP	BMP & BMR	1/2" BSPP	40 LPM	250 Bar	234.00
VLP40DFMD102OMS	BMS	1/2" BSPP	40 LPM	250 Bar	234.00

Dual Overcentre Valves with Brake Release Shuttle

Part Number	To suit Motor	V1 V2	F	Pilot Ratio	Max Flow	Max Pressure	List
OVCDEFMDSF1202OMP	BMP & BMR	1/2" BSPP	1/4"	4.25:1	60 LPM	250 Bar	447.00
OVCDEFMDSF12102OMS	BMS	1/2" BSPP	1/4"	4.25:1	60 LPM	250 Bar	447.00
OVCDEFMDSFC1202OMP	BMP & BMR	1/2" BSPP	1/4"	4.25:1	60 LPM	250 Bar	447.00



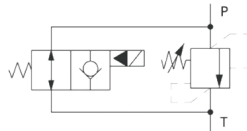


Solenoid Unloading Valve with Relief

Part Number	Ports	Max Flow	Max Pressure	Voltage	List
EV0823VLP401202A-12VDC	1/2" BSPP	40 LPM	250 Bar	12 VDC	TBA
EV0823VLP401202A-24VDC	1/2" BSPP	40 LPM	250 Bar	24 VDC	TBA
EV1023VLP803402A-12VDC	3/4" BSPP	70 LPM	250 Bar	12 VDC	719.00
EV1023VLP803402A-24VDC	3/4" BSPP	70 LPM	250 Bar	24 VDC	719.00

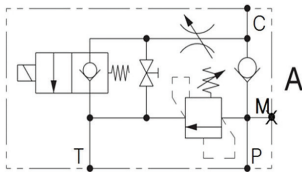
Unloading Valve Normally Open

Normally Closed on Request



Solenoid Operated Lowering Valve

Part Number	Ports	Max Flow	Max Pressure	List
EV25VLP40VNR40ST38A-**VDC	3/8" BSPP	25 LPM	250 Bar	799.00
EV70VLP80VNR80ST12A-**VDC	1/2" BSPP	70 LPM	250 Bar	TBA





Relief Valve Cartridges

Part Number	Pressure Range	Nominal Flow Rate	List
VLP40C01A	20 - 100 Bar	40 LPM	71.00
VLP40C02A	40 - 250 Bar	40 LPM	71.00
VLP40C03A	60 - 350 Bar	40 LPM	71.00
VLP80C01A	20 - 100 Bar	80 LPM	97.00
VLP80C02A	40 - 250 Bar	80 LPM	97.00
VLP80C03A	60 - 350 Bar	80 LPM	97.00
VLP130CD01A	20 - 100 Bar	130 LPM	159.00
VLP130CD02A	40-250 Bar	130 LPM	159.00
VLP130CD03A	60 - 350 Bar	130 LPM	159.00
VLP200PC03A	60 - 350 Bar	200 LPM	230.00



Knob Kits

Part Number	To Suit Cartridge	List
VLP-Knob Kit M8	VLP40	19.00
VLP-Knob Kit M10	VLP80 & VLP130	24.00



Springs

Part Number	Range	To Suit Cartridge	List
M057	3 - 70 Bar	VLP40	32.00
M022	20 - 100 Bar	VLP40	17.00
M023	40 - 250 Bar	VLP40	17.00
M024	60 - 350 Bar	VLP40	17.00
M025	20 - 100 Bar	VLP80/130	20.00
M026	40 - 250 Bar	VLP80/130	20.00
M027	60 - 350 Bar	VLP80/130	20.00
M059	20 - 200 Bar	OVC60	15.00



Seal Kits

Part Number	Description	List
OVC38SK	Seal Kit to suit 3/8" and 1/2" OVC	21.00
OVC34SK	Seal Kit to suit 3/4" OVC	31.00
VLP40SK	Seal Kit	15.00
VLP80SK	Seal Kit	21.00
VLP130SK	Seal Kit	29.00



Priority Cartridges

Part Number		List
RFP50CB	Cartridge	314.00
RFP90CB	Cartridge	360.00



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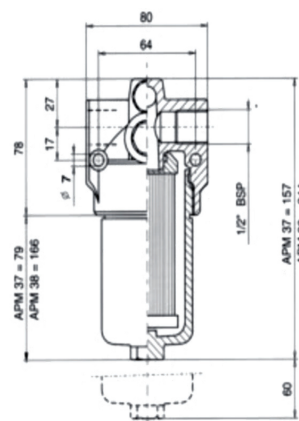


APM Medium Pressure Inline Filters

60 and 90 Litre Inline Filters

Ideal for low pressure systems and return lines

110 Bar
1/2" BSPP Ports



APM Filter Assembly

Part Number	Filter Type	Ports	Max Flow LPM	Max Press Bar	Micron Rating	ByPass setting Bar	List
APM37GNR	Inorganic Fibre 10µm βx³ 75	1/2" BSPP	60	110	10	6	290.00
APM38GNR	Inorganic Fibre 10µm βx³ 75	1/2" BSPP	90	110	10	6	376.00
DC500	Visual Clogging Indicator 5 Bar						153.00



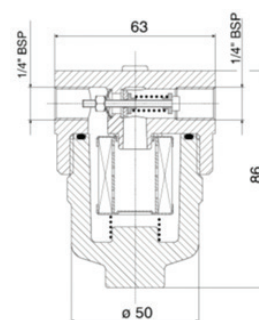
APM Elements

Part Number	Filter Media	Max Flow	Max Pressure	Micron Rating	List
CPM37GNR	Inorganic Fibre 10µm βx³ 75	60 LPM	110 Bar	10	72.00
CPM37ANR	Resin Treated Cellulose 10µm βx³ 2	60 LPM	110 Bar	10	60.00
CPM37BNR	Resin Treated Cellulose 25µm βx³ 2	60 LPM	110 Bar	25	60.00
CPM38GNR	Inorganic Fibre 10µm βx³ 75	90 LPM	110 Bar	10	96.00
CPM38ANR	Resin Treated Cellulose 10µm βx³ 2	90 LPM	110 Bar	10	68.00
CPM38BNR	Resin Treated Cellulose 25µm βx³ 2	90 LPM	110 Bar	25	68.00



MHP Mini Pressure Filters

20 LPM Max
280 Bar Max
1/4" BSPP Ports



MHP Mini Filter Assembly

Part Number	Filter Type	Ports	Max Flow	Max Pressure	Micron Rating	ByPass setting	List
MHP220ANR	High Pressure Inline	1/4" BSPP	20 LPM	280 Bar	10	6 Bar	238.00
MHP220BNR	High Pressure Inline	1/4" BSPP	20 LPM	280 Bar	25	6 Bar	238.00



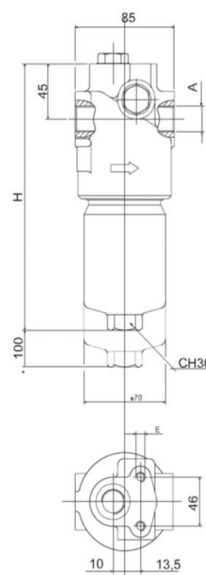
MHP Elements

Part Number	Max Flow	Max Pressure	Micron Rating	List
MHPR220AN	20 LPM	280 Bar	10 Bar	22.00
MHPR220BN	20 LPM	280 Bar	25 Bar	22.00



HPM High Pressure Inline Filters

Inline Filters
420 Bar Max
BSPP Ports



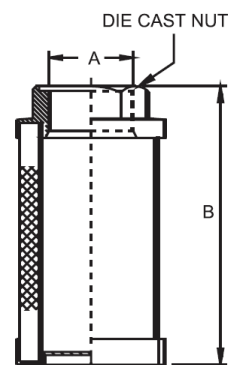
HPM Filter Assembly

Part Number	Filter Media Type	Ports A	Max Flow	Max Pressure	Micron Rating	ByPass setting	H	List
HPM281F10XNR	Inorganic Fibre 10µm βx³ 75	1/2"	35 LPM	420 Bar	10	6 Bar	189	412.00
HPM282F10XNR1	Inorganic Fibre 10µm βx³ 75	3/4"	55 LPM	420 Bar	10	6 Bar	219	424.00
HPM283F10XNR1	Inorganic Fibre 10µm βx³ 75	3/4"	70 LPM	420 Bar	10	6 Bar	319	520.00
HPM421F10XNR	Inorganic Fibre 10µm βx³ 75	3/4"	80 LPM	420 Bar	10	6 Bar	277	620.00
HPM422F10XNR1	Inorganic Fibre 10µm βx³ 75	1"	135 LPM	420 Bar	10	6 Bar	390	770.00
HPM622F10XNR1	Inorganic Fibre 10µm	1 1/4"	300 LPM	420 Bar	10	6 Bar	393	1220.00
DV500	Visual Clogging Indicator							142.00



HPM Elements

Part Number	Filter Media	Max Flow	Max Pressure	Micron Rating	List
CHP281F10XN	Inorganic Fibre 10µm βx³ 75	35 LPM	420 Bar	10	76.00
CHP282F10XN	Inorganic Fibre 10µm βx³ 75	55 LPM	420 Bar	10	85.00
CHP283F10XN	Inorganic Fibre 10µm βx³ 75	70 LPM	420 Bar	10	118.00
CHP421F10XN	Inorganic Fibre 10µm βx³ 75	80 LPM	420 Bar	10	106.00
CHP422F10XN	Inorganic Fibre 10µm βx³ 75	135 LPM	420 Bar	10	140.00



Suction Strainers

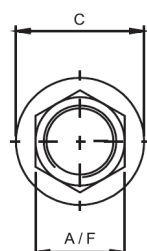
Part Number	Old Type	Nom Flow	Micron	Port (A)	Overall Length B	Dia Cap C	Nut A/F	List
SC3-002	ST14BB	8 LPM	149	1/4" BSPP	90	46	24	22.00
SC3-003	ST38BB	12 LPM	149	3/8" BSPP	90	46	24	22.00
SC3-005	ST12BB	20 LPM	149	1/2" BSPP	105	46	30	25.00
SC3-007	ST34BB	28 LPM	149	3/4" BSPP	109	64	36	29.00
SC3-010	ST100ABB	40 LPM	149	1" BSPP	139	64	46	37.00
SC3-015	ST114BB	60 LPM	149	1 1/4" BSPP	139	86	52	47.00
SC3-020	ST112ABB	80 LPM	149	1 1/2" BSPP	168	86	60	47.00
SC3-030	ST112BB	120 LPM	149	1 1/2" BSPP	200	86	60	53.00
SC3-050	ST200ABB	200 LPM	149	2" BSPP	260	100	70	65.00
SC3-075	ST212BB	300 LPM	149	2 1/2" BSPP	211	150	90	105.00
SC3-100	ST300BB	400 LPM	149	3" BSPP	272	150	100	129.00

Sight Glass - Aluminium



Part Number	Size	Thread	List
SGA-04B	1/2	1/2" BSPP	7.00
SGA-06B	3/4	3/4" BSPP	7.00
SGA-08B	1	1" BSPP	13.00
SGA-10B	1 1/4	1 1/4" BSPP	20.00
SGA-12B	1 1/2	1 1/2" BSPP	29.00

Sight Glass - Plastic



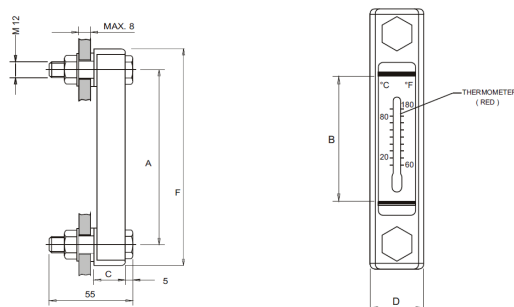
Part Number	Size	Thread	List
SGP-06B	3/4	3/4" BSPP	7.00
SGP-08B	1	1" BSPP	7.00
SGP-10B	1 1/4	1 1/4" BSPP	11.00
SGP-12B	1 1/2	1 1/2" BSPP	15.00



Level & Level/Temperature Indicators

Part Number	Old Series	Size Bolt Centres	Bolts	Type	List
LG2-03-M10	LI-1-M10	76mm	M10	Level	22.00
LG2-03-M12	LI-1-M12	76mm	M12	Level	22.00
LG2-03T-M10	LI/T-1-M10	76mm	M10	Level & Temperature	25.00
LG2-03T-M12	LI/T-1-M12	76mm	M12	Level & Temperature	25.00
LG2-05-M10	LI-2-M10	127mm	M10	Level	25.00
LG2-05-M12	LI-2-M12	127mm	M12	Level	25.00
LG2-05T-M10	LI/T-2-M10	127mm	M10	Level & Temperature	32.00
LG2-05T-M12	LI/T-2-M12	127mm	M12	Level & Temperature	32.00
LG2-10-M12	LI-3	254mm	M12	Level	41.00
LG2-10T-M12	LI-T-3	254mm	M12	Level & Temperature	47.00
LVSE2 (M12)	LIE	127mm	M12	Level with Electric Switch	170.00
LVSE3		254mm	M12	Level with Electric Switch	1232.00

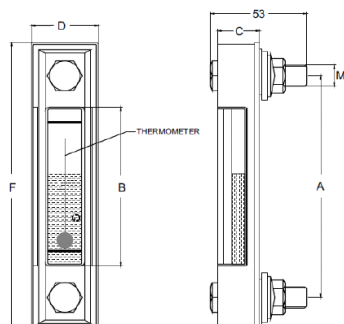
Type	A	B	C	D	E	F
LG2-03	76	37	20	34	M10/M12	108
LG2-05	127	76	20	34	M10/M12	159
LG2-10	254	203	20	34	M10/M12	286



Level/Temperature Indicators - Cast Alloy

Part Number	Size	Type	Thread	List
LG6-03T-M12	76mm	Level & Temperature	M12	32.00
LG6-05T-M12	127mm	Level & Temperature	M12	37.00
LG6-10T-M12	254mm	Level & Temperature	M12	57.00

Type	A	B	C	D	E	F
LG6-03	76.2	34	23	35	M12	111
LG6-05	127.0	89	23	35	M12	162
LG6-10	254.0	89	23	35	M12	289



Filler Breathers - Flange Mount

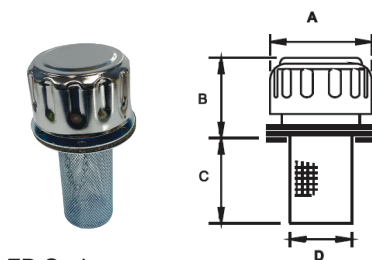
Part Number	Rated Flow LPM	Filtration Microns	Mounting Type	A	B	C	D	List
FB-1	150	40	41mm Diameter Flange	45	49	65	28	22.00
FB-1P	150	40	41mm Pressurised	45	49	65	28	35.00
FB-2	720	40	73mm Diameter Flange	77	62	91	48	29.00
FB-2P	720	40	73mm Pressurised	77	62	91	48	43.00
FB-3	720	40	73mm Diameter Flange	77	62	148	48	37.00
FBC-2	720	40	73mm Locking Tab	77	62	91	48	44.00
FBC-3	720	40	73mm Locking Tab	77	62	148	48	51.00
FB-3P	720	40	73mm Pressurised	77	62	148	48	51.00
FSB-25BM	720	40	Side Mount	77	62			61.00
FSB-25HN	720	40	High Neck	77	122	91	48	59.00

Filler Breathers Threaded

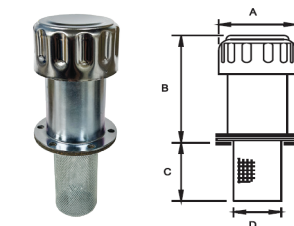
AB-1	150	40	1/4" BSPP	45	55	7	13	15.00
AB-2	720	40	3/4" BSPP	77	71	7	16	19.00
AB20-10-BF	1500	10	73mm Diameter Flange	177	146	3/4" BSPP	96	29.00
AB20-25-BF	2000	25		177	146	3/4" BSPP	96	29.00
AB50-10-BF	2600	10	73mm Diameter Flange	211	180	1 1/4" BSPP	129	TBA
AB50-25-BF	3000	25		211	180	1 1/4" BSPP	129	TBA
AB20-10-BS	1500	10	3/4" BSPP		146	3/4" BSPP	96	24.00
AB20-25-BS	2000	25			146	3/4" BSPP	96	24.00
AB50-10-BS	2600	10	1 1/4" BSPP		180	1 1/4" BSPP	129	TBA
AB50-25-BS	3000	25			180	1 1/4" BSPP	129	TBA
AB-20BF	Flange Adaptor							TBA
AB-20BS	BSPP Threaded Adaptor							TBA
AB-50BF	Flange Adaptor							TBA
AB-50BS	BSPP Threaded Adaptor							TBA

Filler Breathers Push On

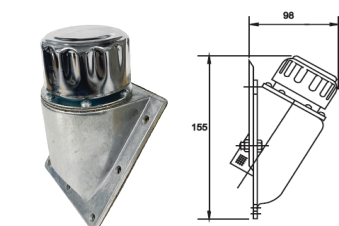
PB-25 (ABT)	720	40	1 1/2" Push On	77	50			22.00
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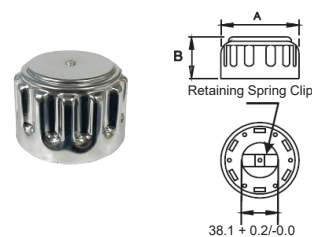
FB Series



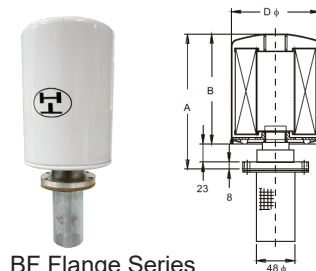
FSB-25HN Series



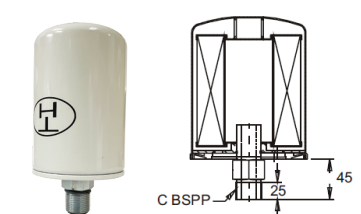
FSB-25BM Series



PB-25 (ABT) Series



BF Flange Series



BS BSPP Threaded Series



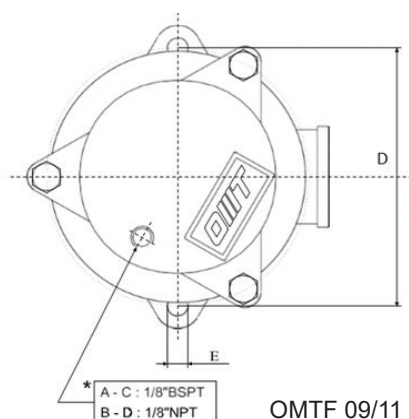
Tank Top Return Filters

Part Number	Old Part Numbers		Nom Flow	Micron	Max Pressure	Port	List
OMTF091C10NA	OMTF40AN	RTF3-10	40 LPM	10	3 Bar	1/2" BSPP	70.00
OMTF111C10NA	OMTF65AN		81 LPM			1/2" BSPP	94.00
OMTF111C10NA1	OMTF75AN	RTF6-10	81 LPM			3/4" BSPP	94.00
OMTF112C10NA1	OMTF85AN		85 LPM			3/4" BSPP	94.00
OMTF112C10NA2	OMTF100AN	RTF10-10	100 LPM			1" BSPP	94.00
OMTF171C10NA1	OMTF200AN	RTF18-10	214 LPM			1 1/4" BSPP	188.00
OMTF221C10NA	OMTF280AN	RTF22-10	276 LPM			1 1/4" BSPP	252.00
OMTF222C10NA1	OMTF300AN	RTF33-10	319 LPM			1 1/2" BSPP	274.00
OMTF224C10NA2	OMTF350AN	RTF60-10	380 LPM			2" BSPP	298.00

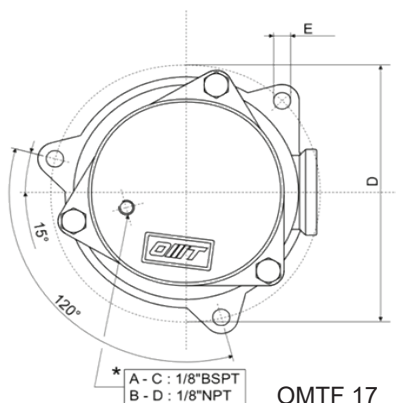


Elements

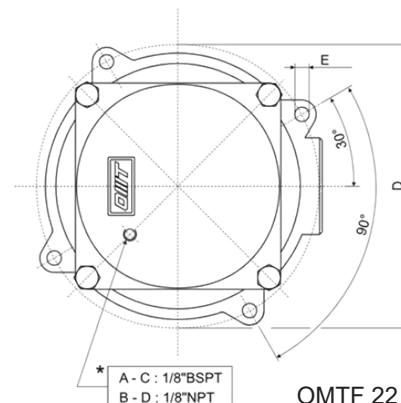
Part Number	Nom Flow	Micron	To Suit	Dimensions mm H x D x Hole	List
CR091C10R	40 LPM	10	OMTF09 & 40, RTF3	70 x 50 x 25	24.00
CR111C10R	81 LPM		OMTF111, OMTF65, & 75, RTF6	84 x 69 x 28.5	32.00
CR112C10R	100 LPM		OMTF112, OMTF85 & 100, RTF8 & 10	129 x 70 x 29	36.00
CR171C10R	214 LPM		OMTF171, OMTF150 & 200, RTF18	208 x 99 x 41	59.00
CR221C10R	276 LPM		OMTF221, OMTF280 & RTF22	139 x 136 x 50	68.00
CR222C10R	319 LPM		OMTF222, OMTF300 & RTF33	199 x 136 x 50	82.00
CR224C10R	380 LPM		OMTF224, OMTF350 & RTF60	249 x 136 x 65	88.00
CR091C25R	40 LPM	25	OMTF09 & 40, RTF3	70 x 50 x 25	25.00
CR112C25R	100 LPM		OMTF112, OMTF85 & 100, RTF8 & 10	129 x 70 x 29	36.00
CR171C25R	214 LPM		OMTF171, OMTF150 & 200, RTF18	208 x 99 x 41	59.00



OMTF 09/11

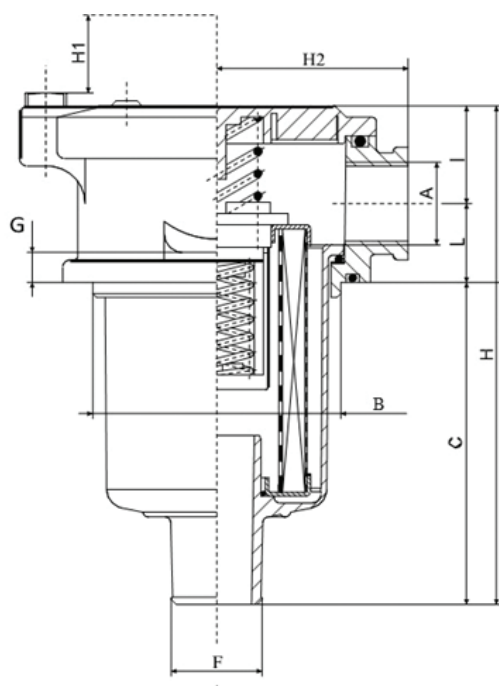


OMTF 17



OMTF 22

	A BSPP	B	C	D	E	F	G	H	H1	H2
OMTF091C10NA	1/2"	66	85	90	7	24.5	8	129	110	50
OMTF111C10NA	1/2"	86	92	115	9	30	10	155	130	67
OMTF111C10NA1	3/4"	86	92	115	9	30	10	155	130	67
OMTF112C10NA1	3/4"	86	150	115	9	30	10	200	175	67
OMTF112C10NA2	1"	86	150	115	9	30	10	200	175	67
OMTF171C10NA	1"	129	244	175	11	40	10	324	255	95
OMTF171C10NA1	1 1/4"	129	244	175	11	40	10	324	255	95
OMTF221C10NA	1 1/4"	173	176	220	11	51	11	262	210	120
OMTF222C10NA1	1 1/2"	173	236	220	11	51	11	322	260	120
OMTF224C10NA2	2"	173	283	220	11	64	11	368	320	120





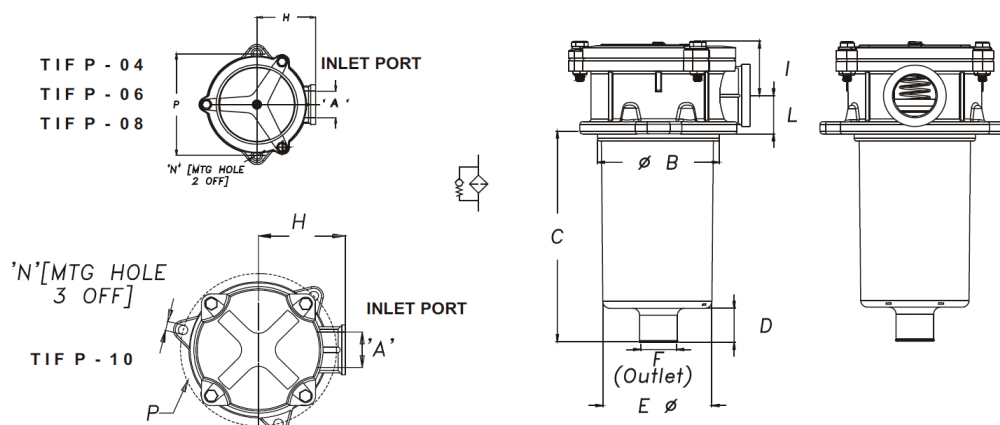
Not Compatible with OMTF or RTF, check dimensions and flow rates



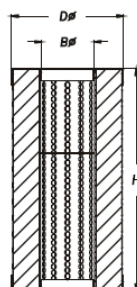
Tank Top Return Filters

Part Number	Nom Flow	Max Pressure	Micron	Port	List
TIFP-04B-P10	25 LPM	7 Bar	10	1/2" BSPP	63.00
TIFP-06B-P10	50 LPM			3/4" BSPP	81.00
TIFP-08B-P10	80 LPM			1" BSPP	90.00
TIFP-08B-P10-XL				1" BSPP	102.00
TIFP-10B-P10	150 LPM			1 1/4" BSPP	172.00

Part Number	Port A	B	C	D	E	F	H	I	L	N	P
TIFP-04B-P10	1/2" BSPP	68	89	15	58	19	53	27	24	7.0	90
TIFP-06B-P10	3/4" BSPP	87	104	25	78	22	65	36	28	8.5	115
TIFP-08B-P10	1" BSPP	87	153	25	78	22	65	36	28	8.5	115
TIFP-08B-P10-XL	1" BSPP	87	221	25	78	22	65	36	28	8.5	115
TIFP-10B-P10	1 1/4" BSPP	129	278	40	110	39	97	47	37	10.5	175



Elements



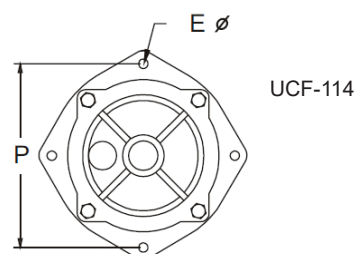
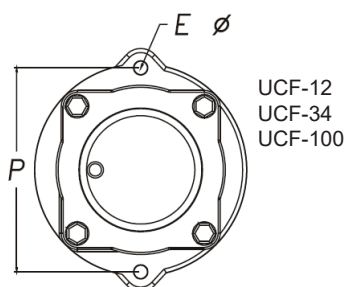
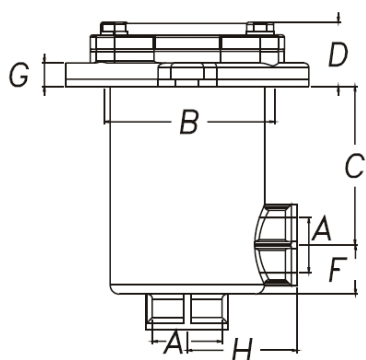
Part Number	Nom Flow	D	B	H	Micron	Port	List
TIE-04-P10	25 LPM	52	25.5	72	10	1/2" BSPP	22.00
TIE-06-P10	50 LPM	66	30.5	85		3/4" BSPP	29.00
TIE-08-P10	80 LPM	66	30.5	130		1" BSPP	35.00
TIE-08-P10-XL	100 LPM	66	30.5	215		1" BSPP	47.00
TIE-10-P10	150 LPM	90	40.5	245		1 1/4" BSPP	59.00
TIE-08-P25	80	66	30.5	130	25	1" BSPP	35.00



Under Tank Filter

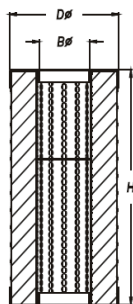
Part Number	Old Part Number	Porting	Nom Flow	Max Pressure	Micron	List
FIF-04B-P10	UCF12-10	1/2" BSPP	25 LPM	10 Bar	10	126.00
FIF-06B-P10	UCF34-10	3/4" BSPP	50 LPM			178.00
FIF-08B-P10	UCF100-10	1" BSPP	80 LPM			198.00
FIF-10B-P10	UCF114-10	1 1/4" BSPP	150 LPM			283.00

Model	Old Model	A	B	C	D	E	F	G	H	P
FIF-04	UCF-12	1/2" BSPP	88	71	23	7	34	7	48	100
FIF-06	UCF-34	3/4" BSPP	110	68	24	9	48	10	58	126
FIF-08	UCF-100	1" BSPP	110	110	24	9	55	10	58	126
FIF-10	UCF114	1 1/4" BSPP	156	190	35	9	62	14	83	175



Elements

Part Number	Old Part Number	Micron Nom	D	B	H	List
FIE-04-P10	UE12-10	10	52	25.5	72	20.00
FIE-04-P25	UE12-25	25	52	25.5	72	20.00
FIE-06-P10	UE34-10	10	66	30.5	85	22.00
FIE-06-P25	UE34-25	25	66	30.5	85	22.00
FIE-08-P10	UE10-10	10	66	30.5	130	27.00
FIE-08-P25	UE10-25	25	66	30.5	130	27.00
FIE-10-P10	UE114-10	10	95	40.5	200	49.00
FIE-10-P25	UE114-25	25	95	40.5	200	49.00

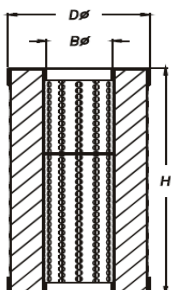
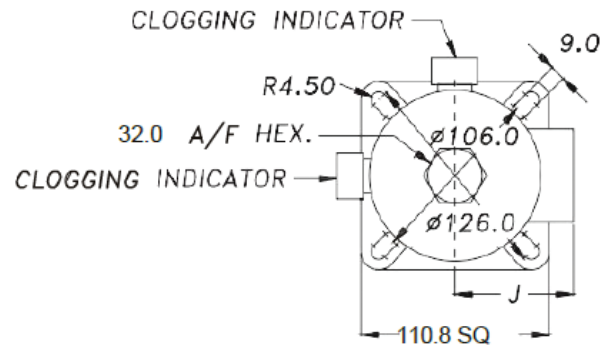
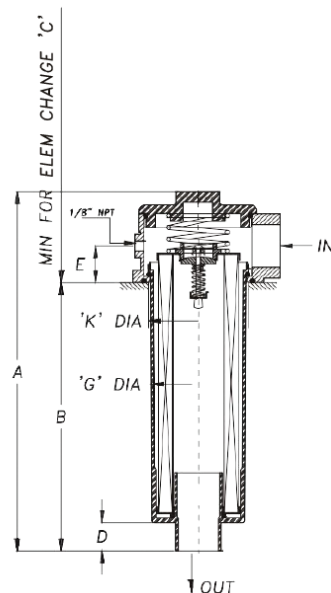




Return Line Filter - Tank Top Mount

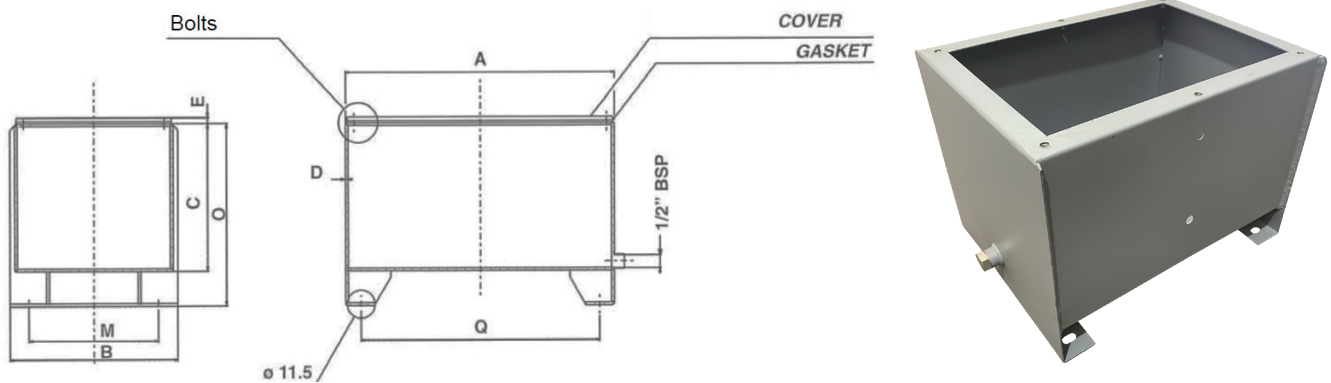
Part Number	Port	Max Pressure	Bypass	Bowl Length	Nom Flow	Micron	List
RPF-06B-L1-P10-R4	3/4" BSPP	7 Bar	1.7 Bar	220	60 LPM	10	132.00
RPF-08B-L1-P10-R4	1" BSPP				75 LPM		136.00
RPF-10B-L2-P10-R4	1 1/4" BSPP			300	110 LPM		148.00
RPFB-10B-L2-P10-R4							148.00

Part Number	Port	A	B	C	D	E	G	H	J	K Cut Out
RPF-06B-L2-P10-R4	3/4" BSPP	307	230	350	24	30	80	38	66	80
RPF-08B-L2-P10-R4	1" BSPP	307	230	350	24	30	80	38	66	80
RPF-10B-L2-P10-R4	1 1/4" BSPP	390	311	405	24	30	80	38	66	80
RPFB-10B-L2-P10-R4	1 1/4" BSPP	392	311	405	24	32	80	38	68	84



Elements

Part Number	Bypass	Microns	D	B	H	List
RPE-L1-P10	1.7 Bar	10	70	40	220	34.00
RPE-L2-P10			70	40	300	37.00



Standard Steel Hydraulic Tank

Part Number	Nom Capacity Litres	Air Volume Litres	Length A	Width B	Height C	D	E	M	O	Q	Bolts	List
OT-12	13	21	335	270	235	1.5	4	208	290	286	6xM8	396.00
OT-16	20	33	410	325	250	1.5	4	270	305	364	6xM8	450.00
OT-30	30	49	470	375	280	1.5	4	312	335	428	6xM8	682.00
OT-55	55	87	600	470	310	2	4	401	365	548	6xM8	842.00
OT-75	75	112	600	470	400	2	4	401	455	548	10XM8	1080.00
OT-100	100	157	675	520	450	2.5	5	455	505	625	10XM8	1240.00
OT-180	180	249	805	620	500	2.5	5	555	555	755	10XM8	1598.00

Nominal Capacity is Based on Approximately 60 - 65% of aActual Air Volume.
Allowing for Pumps, Bell Housing and Air Space etc

Powder Coated on Request

Gaskets

Part Number	Length	Width	List
GCF12	335	270	17.00
GCF16	410	325	19.00
GCF30	470	375	25.00
GCF55-75	600	470	35.00
GCF100	675	520	39.00
GCF180	805	620	68.00

Blank Lids

Part Number	Length	Width	Bolts	Thickness	List
OTC-12 Blank	335	270	6xM8	4	61.00
OTC-16 Blank	410	325	6xM8	4	74.00
OTC-30 Blank	470	375	6xM8	4	87.00
OTC-55 Blank	600	470	6xM8	4	136.00
OTC-75 Blank	600	470	10XM8	4	136.00
OTC-100 Blank	675	520	10XM8	5	174.00
OTC-180 Blank	805	620	10XM8	5	332.00

Standard and Special Laser Cut Lids on Request



Aluminium Hydraulic Tanks

Part Number	Nom Capacity	Length	Width	Height Inc Feet	List
CP3	3 Litres	220	160	150	116.00
CP10	10 Litres	340	247	220	198.00
CP16	16 Litres	368	290	243	293.00
CP25	25 Litres	490	340	285	398.00
CP55	55 Litres	595	450	345	1571.00
CP75	75 Litres	595	450	465	1961.00

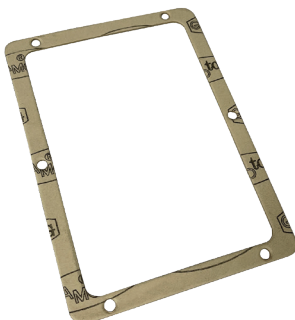
Blank Steel Lids



Part Number	Description	List
CCP3	Blank Lid	29.00
CCP10		81.00
CCP16		97.00
CCP25		112.00
CCP55		180.00
CCP75		180.00

Standard and Special Laser Cut Lids on Request

Gaskets



Part Number	Description	List
GCP3	Gasket to Suit CP3	11.00
GCP10	Gasket to Suit CP10	15.00
GCP16	Gasket to Suit CP16	20.00
GCP25	Gasket to Suit CP25	21.00
GCP55	Gasket to Suit CP55	44.00
GCP75	Gasket to Suit CP75	44.00



Inline Spin On Return Filters



Part Number		Nom Flow	Micron	Type	Ports	List
S05-10		75 LPM	10	Return	3/4" BSPP	71.00
S05-25		85 LPM	25		3/4" BSPP	71.00
S06-10		85 LPM	10		3/4" BSPP	97.00
S06-25		95 LPM	25		3/4" BSPP	97.00
S010-10		160 LPM	10		1 1/4" BSPP	129.00
S010-25		200 LPM	25		1 1/4" BSPP	129.00
S015-10		180 LPM	10		1 1/4" BSPP	158.00
S015-25		220 LPM	25		1 1/4" BSPP	158.00
S020-10	Dual Elements Opposite	325 LPM	10		1 1/2" BSPP	240.00
S030-10	Dual Elements Side x Side	380 LPM	10		1 1/2" BSPP	465.00

Spin on Elements



Part Number	Nom Flow	Micron	Type	List
S0E5-10	75 LPM	10	Inline	37.00
S0E5-25	85 LPM	25		37.00
S0E5-125		125		73.00
S0E6-10	85 LPM	10		63.00
S0E6-25	95 LPM	25		63.00
S0E10-10	160 LPM	10		63.00
S0E10-25	200 LPM	25		63.00
S0E10-125		125		107.00
S0E15-10	180 LPM	10		96.00
S0E15-25	220 LPM	25		96.00
S0ET5-10	60 LPM	10	Tank Top	57.00
SOET10-10	130 LPM	10		95.00
GSOE5-25	85 LPM	25	Inline	41.00
GSOE10-25	200 LPM	25		65.00

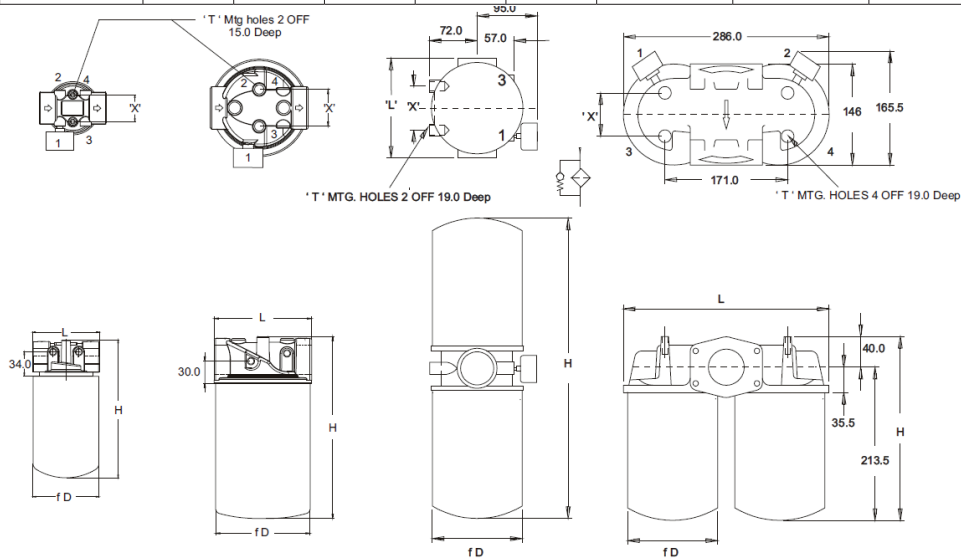
Spin on Filter Heads



Part Number	Description	Ports	List
S0H-5	S05 & S06 Head	3/4" BSPP	35.00
S0H-10	S010 & S015 Head	1 1/4" BSPP	65.00
S0H-20	S020 Head	1 1/2" BSPP	114.00
S0H-30	S030 Head	1 1/2" BSPP	339.00
S0H-5-S	S05 & S06 Suction Head	3/4" BSPP	35.00
S0H-10-S	S010 & S015 Suction Head	1 1/4" BSPP	65.00



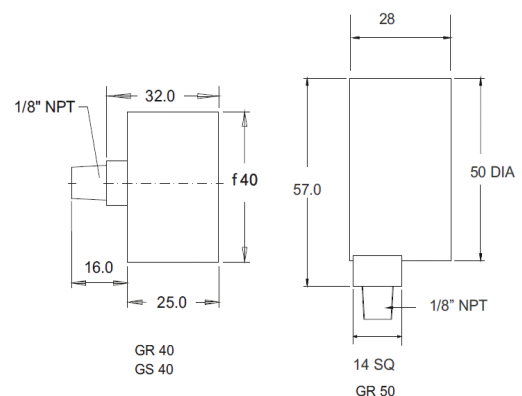
Filter	Head	Element	A	L	D	H	X	T Mounting Holes		N	Weight
SO-5	SOH-5	SOE-5	3/4"	95	93	196	38	2 off	M6x1	1/8" NPT	1.0
SO-6	SOH-5	SOE-6	3/4"	95	93	263	38	2 off	M6x1	1/8" NPT	1.2
SO-10	SOH-10	SOE-10	1 1/4"	132	129	249	50	2 off	M8x1.25	1/8" NPT	2.2
SO-15	SOH-10	SOE-15	1 1/4"	132	129	294	50	2 off	M8x1.25	1/8" NPT	2.4
SO-20	SOH-20	SOE-10	1 1/2"	148	129	431	65	2 off	M10x1.5	1/8" NPT	3.6
SO-25	SOH-20	SOE-15	1 1/2"	148	129	522	65	2 off	M10x1.5	1/8" NPT	4.0
SO-30	SOH-30	SOE-10	1 1/2"	286	129	273	60	4 off	M10x1.5	1/8" NPT	5.5
SO-30F	SOH-30	SOE-10		286	129	273	60	4 off	M10x1.5	1/8" NPT	6.2
SO-35	SOH-30	SOE-15	1 1/2"	286	129	317	60	4 off	M10x1.5	1/8" NPT	5.5
SO-35F	SOH-30	SOE-15		286	129	317	60	4 off	M10x1.5	1/8" NPT	6.2



Clogging Indicators



Part Number	Type	Mounting Type	Range	List
GR40	Gauge 40mm Diameter	1/8" NPT	0 - 35 PSI	43.00
GR50	Gauge 50mm Diameter	1/8" NPT	0 - 35 PSI	43.00
VCIP/COLOUR	Pressure Gauge	1/8" BSPP	0-6 Bar	43.00
EIP	ER Electric Switch	1/8" NPT	0 - 5 Bar	71.00
EIV	Vacuum Electrical Switch	1/8" NPT	0.15 - 8 Bar	71.00
GS40	Vacuum Gauge 40mm Diameter	1/8" NPT	-1 to 1.5 Bar	43.00
VCIV/COLOUR	Vacuum Gauge	1/8" BSPP	0 to - 1 Bar	43.00





Suction Filters Inline

Part Number		Micron	Type	Ports	List
S05-25S		25	Suction	3/4" BSPP	71.00
S05-125S		125		3/4" BSPP	107.00
S010-25S		25		1 1/4" BSPP	129.00
S010-125S		125		1 1/4" BSPP	172.00



Elements

Part Number		Micron	Type		List
S0E5-25		25	Suction		37.00
S0E5-125		125			73.00
S0E10-25		25			63.00
S0E10-125		125			107.00



Vacuum Gauge

Part Number	Description	Type	Ports	List
VCIV/COLOUR	Green, Yellow, Red	Suction	1/8" BSPP	43.00
GS40	Vacuum Gauge 40mm Diameter	-1 to 1.5 Bar	1/8" NPT	43.00
EIV	Vacuum Electrical Switch	1/8" NPT	0.15 - 8 Bar	71.00



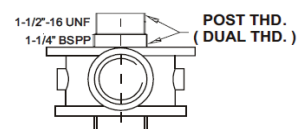
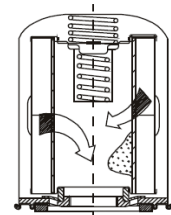
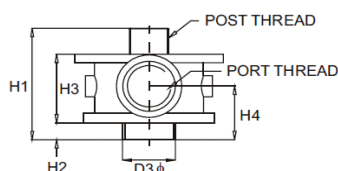
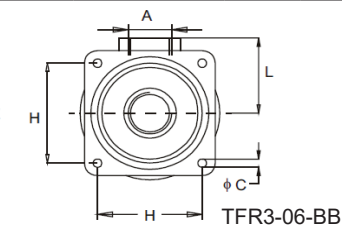
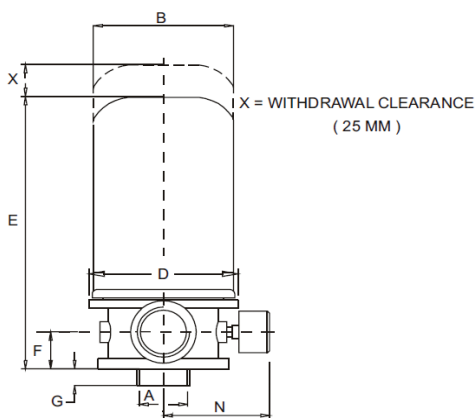
Tank Top Mount Return Filter

Part Number	Nom Flow	Micron	Type	Ports	List
SOT5-10	75 LPM	10	Return	3/4" BSPP	112.00
SOT10-10	130 LPM	10		1 1/4" BSPP	180.00
TFR3-06-BB			Head	3/4" BSPP	59.00

Elements

Part Number	Nom Flow	Micron	Type		List
S0ET5-10	75 LPM	10	Return		57.00
S0ET10-10	130 LPM	10			95.00

Model	A BSPP	B	C	D	D3	E	F	G	H	H1	H2	H3	H4	L	N	Kgs
SOT5	3/4"	96	7	75	35	196	25	18	70	80	18	53	43	55	72	1.3
SOT10	1 1/2"	129	9	135	60	252	36	22	100	127	22	73	58	72	90	2.3





AISI 302 Stainless Steel
Case, Glycerine Filled



63mm Diameter, 1/4" BSPP Bottom Entry

Part Number	Range	List
PG63-B-006-B	0-6 Bar	35.00
PG63-B-010-B	0-10 Bar	35.00
PG63-B-016-B	0-16 Bar	35.00
PG63-B-025-B	0-25 Bar	35.00
PG63-B-040-B	0-40 Bar	35.00
PG63-B-060-B	0-60 Bar	35.00
PG63-B-100-B	0-100 Bar	35.00
PG63-B-160-B	0-160 Bar	35.00
PG63-B-250-B	0-250 Bar	35.00
PG63-B-315-B	0-315 Bar	35.00
PG63-B-400-B	0-400 Bar	35.00

63mm Diameter, 1/4" BSPP Rear Entry with Clamp

Part Number	Range	List
PG63-C-010-B	0-10 Bar	41.00
PG63-C-016-B	0-16 Bar	41.00
PG63-C-025-B	0-25 Bar	41.00
PG63-C-040-B	0-40 Bar	41.00
PG63-C-060-B	0-60 Bar	41.00
PG63-C-100-B	0-100 Bar	41.00
PG63-C-160-B	0-160 Bar	41.00
PG63-C-250-B	0-250 Bar	41.00
PG63-C-315-B	0-315 Bar	41.00
PG63-C-400-B	0-400 Bar	41.00



100mm Diameter, 1/2" BSPP Bottom Entry

Part Number	Range	List
PG100-B-010-B	0-10 Bar	93.00
PG100-B-016-B	0-16 Bar	93.00
PG100-B-025-B	0-25 Bar	93.00
PG100-B-040-B	0-40 Bar	93.00
PG100-B-060-B	0-60 Bar	93.00
PG100-B-100-B	0-100 Bar	93.00
PG100-B-160-B	0-160 Bar	93.00
PG100-B-250-B	0-250 Bar	93.00
PG100-B-315-B	0-315 Bar	93.00
PG100-B-400-B	0-400 Bar	93.00



100mm Diameter, 1/2" BSPP Rear Entry with Flange Mount

Part Number	Range	List
PG100-F-010-B	0-10 Bar	97.00
PG100-F-016-B	0-16 Bar	97.00
PG100-F-025-B	0-25 Bar	97.00
PG100-F-040-B	0-40 Bar	97.00
PG100-F-060-B	0-60 Bar	97.00
PG100-F-100-B	0-100 Bar	97.00
PG100-F-160-B	0-160 Bar	97.00
PG100-F-250-B	0-250 Bar	97.00
PG100-F-315-B	0-315 Bar	97.00
PG100-F-400-B	0-400 Bar	97.00





OAC Series Oil Coolers

Aluminium
BSPP Ports
1/2" BSPP Sensor Port

Part Number	Nom Flow	Max Pressure	Voltage	Ports	List
OAC10A-DC12V	80 LPM	16 Bar	12VDC	3/4" BSPP	823.00
OAC10A-DC24V			24VDC		
OAC10A-AC220V			220VAC		
OAC10A-AC415V			415VAC		
OAC16A-DC12V	120 LPM		12VDC	1" BSPP	988.00
OAC16A-DC24V			24VDC		
OAC16A-AC220V			220VAC		
OAC16A-AC415V			415VAC		
OAC20A-DC12V	180 LPM		12VDC	1 1/4" BSPP	1521.00
OAC20A-DC24V			24VDC		
OAC20A-AC220V			220VAC		
OAC20A-AC415V			415VAC		
OAC30A-DC12V	300 LPM		12VDC	1 1/4" BSPP	1973.00
OAC30A-DC24V			24VDC		
OAC30A-AC220V			220VAC		
OAC30A-AC415V			415VAC		

Cooler Fan Kits

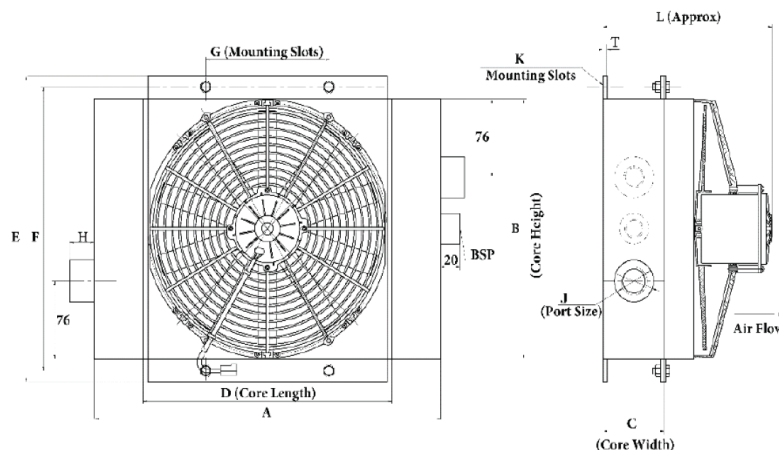


Part Number	Voltage	List
OAC10-FK-12VDC	12VDC	170.00
OAC10-FK-24VDC	24VDC	170.00
OAC10-FK-220VAC	220VAC	170.00
OAC10-FK-415VAC	415VAC	170.00
OAC16-FK-12VDC	12VDC	170.00
OAC16-FK-24VDC	24VDC	170.00
OAC16-FK-220VAC	220VAC	170.00
OAC16-FK-415VAC	415VAC	170.00
OAC20-FK-12VDC	12VDC	480.00
OAC20-FK-24VDC	24VDC	480.00
OAC20-FK-220VAC	220VAC	480.00
OAC20-FK-415VAC	415VAC	480.00
OAC30-FK-12VDC	12VDC	595.00
OAC30-FK-24VDC	24VDC	595.00
OAC30-FK-220VAC	220VAC	595.00
OAC30-FK-415VAC	415VAC	595.00



Dimensions

Model	A	B	C	D	E	F	G	H	J	K	L	T	Amp Draw		Approx Weight (Kg)
													12V	24V	
OAC10	355	253	63	255	298	276	126	25	3/4" BSPP	8x13	173	4	5.2	2.6	9
OAC16	405	300	63	305	343	324	149	30	1" BSPP	8x13	173	4	8.2	4.1	11
OAC20	500	410	63	400	468	440	305	40	1 1/4" BSPP	11x19	181	5	19	9.5	14
OAC30	600	504	63	500	562	534	405	40	1 1/4" BSPP	11x19	183	5	19	9.5	24



Heat Dissipation in Kw

Oil Flow LPM	10	15	20	30	40	50	60	70	80	90	100	150	200	250	300	350	400
OAC10	3.2	3.5	3.7	4.0	4.1	4.3	4.3										
OAC16		4.8	5.2	5.6	5.8	6.0	6.1	6.3	6.4								
OAC20			8.2	9.4	10.0	10.4	10.8	11.1	11.4	11.5	11.6	12.2					
OAC30			11.4	13.2	14.3	15.2	15.8	16.4	16.8	17.1	17.4	18.3	19.0	19.6	20.0		

Note: Based on 40 Degree C Temperature Differential Between Inlet Oil Temperature and Ambient Air Temperature.



TS Type Thermostat

Normally Open/ Normally Closed Electrical Contact

Part Number	Preset Temperature Setting	Maximum Pressure	Hydraulic Connection Mal	List
TS44-1	40°C	200 Bar	1/2" BSPP Male	97.00
TS45-1	50°C			97.00
TS46-1	60°C			97.00
TS47-1	70°C			97.00
TS48-1	80°C			97.00



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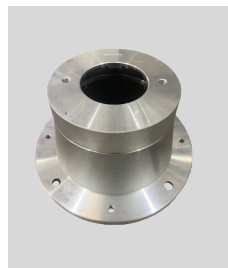




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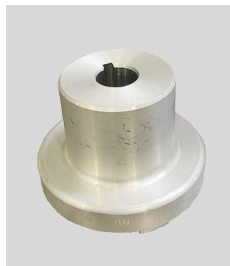
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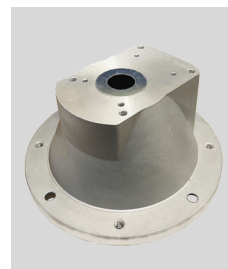
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Group 3 Pump Mounts
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SAE B 2 Bolt Pump Mounts
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Noisless Bell Housings
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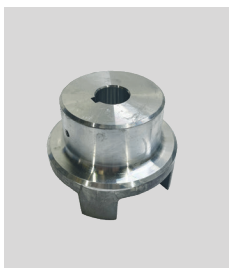
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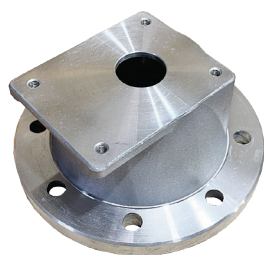
Couplings - 300 Series
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Couplings - 500 Series
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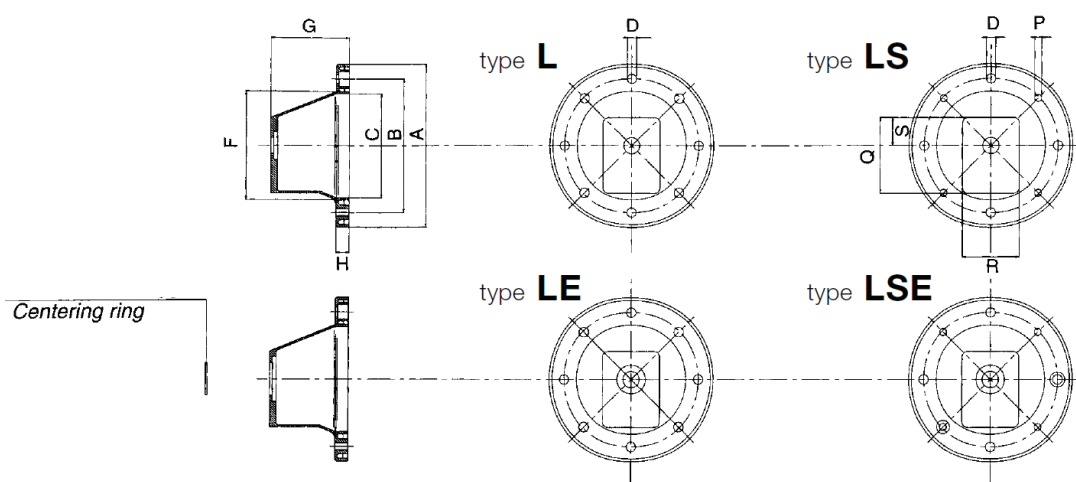


Couplings - 700 Series
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Metric Frame Electric Motor Bell Housings to Suit Group 1, Group 2 and Group 3 Standard Mount Pumps

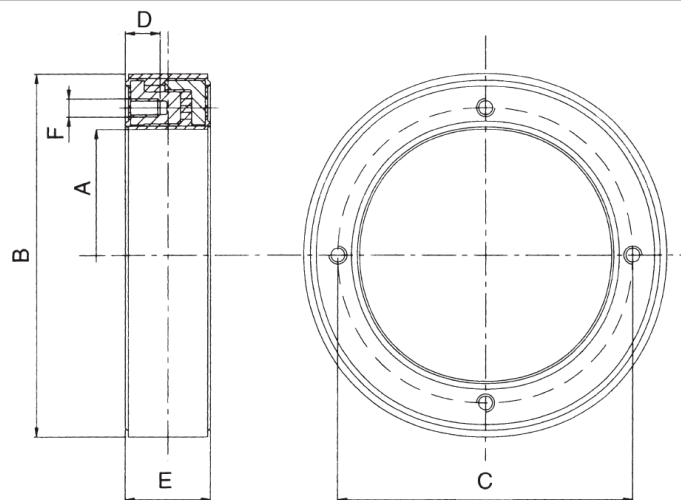
Electric Motor Bell Housings					OMT
Frame	Kw @ 1440	Pump Type	Part Number		List
			Bell Housings	Centering Ring	
63	.12, .25	Group 1	L1402	-	37.00
71	.37	Group 1	L1602	-	44.00
80, 90	.55,.75,1.1,1.5	Group 1	LSE20BDF1	+ Group 1 C-Ring	64.00
80, 90	.55,.75,1.1,1.5	Group 2	LSE20BDF1	+ Group 2 C-Ring	64.00
100, 112	2.2, 3, 4	Group 1	LSE25ADF1	+ Group 1 C-Ring	82.00
100, 112	2.2, 3, 4	Group 2	LSE25ADF1	+ Group 2 C-Ring	82.00
132	5.5, 7.5	Group 2	LSE30ADF4	+ Group 2 C-Ring	132.00
132	5.5, 7.5	Group 3	LSE30ADF4	+ Group 3 C-Ring	132.00
160, 180	11,15,18.5,22	Group 2	LSE35CDF4	+ Group 2 C-Ring	246.00
160, 180	11,15,18.5,22	Group 3	LSE35CDF4	+ Group 3 C-Ring	246.00
B14		Group 1	LS149		99.00
B14		Group 2	LS148		99.00



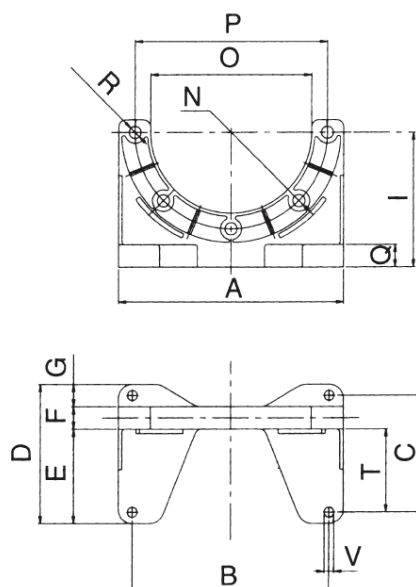
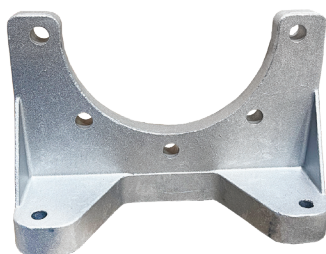
Bell Housing	Frame	A	B	C	D	F	G	H	P	Q	R	S
L1402	63	140	115	95	10	100	60	11	M8	90	69	34
L1602	71	160	130	110	10	110	70	17	M8	90	69	34
LSE20BDF1	80/90	200	165	130	12	135	95	15	M10	90	69	34
LSE25ADF1	100/112	250	215	180	14	185	105	21	M12	118	86	43
LSE30ADF4	132	300	265	230	14	238	143	21	M12	170	120	59
LSE35CDF4	160/180	350	300	250	18	253	178	25	M16	235	235	117.5



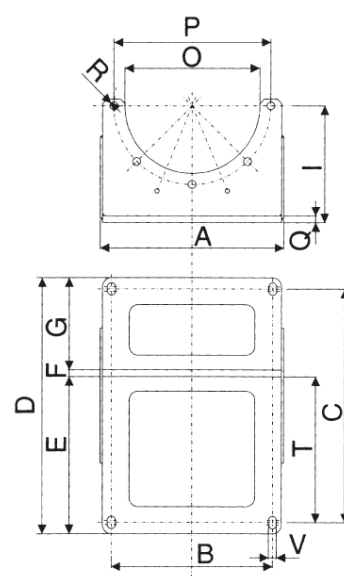
Damping Rings - Noise Reducing Rings							OMT
Part Number	A	B	C	D	E	F	List
A200	146	200	165	15	43	M10	148.00
A250	191	250	215	18	48	M12	182.00
A300	238	300	265	18	53	M12	250.00
A350	261	350	300	24	61.5	M16	358.00
A400	311	400	350	24	69	M16	990.00



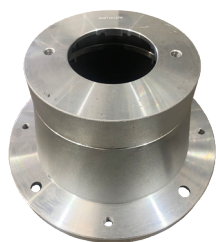
Foot Mounts							OMT
Part Number	A	B	C	D	E	F	List
P160	165	135	80	100	45	10	48.00
P200	202	168	103	125	54	19	60.00
P250	252	220	130	155	105	25	104.00
P300	302	265	160	190	115	25	138.00
P350	362	310	250	286	183	30	242.00



From Ø 160 to Ø 350



From Ø 400 to Ø 550

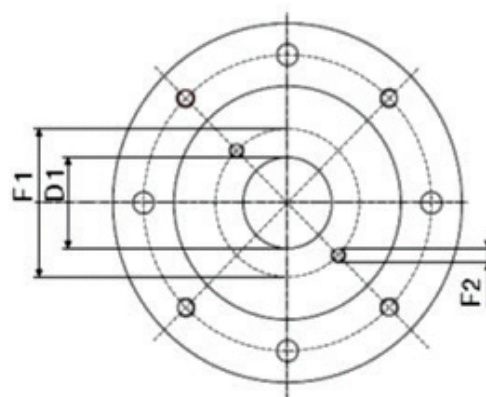
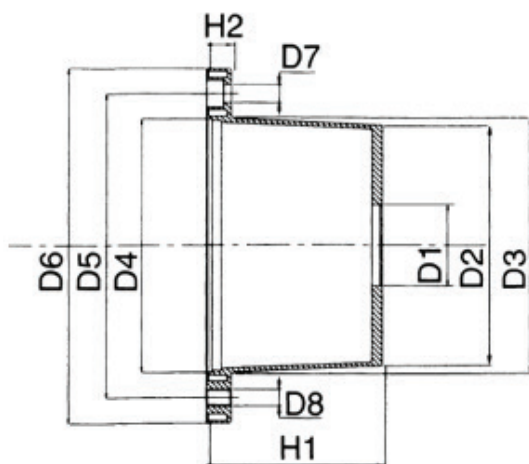


80/90 Frame Bell Housing																OMT
Part Number	Frame	Kw @ 1440	Pump Type Mount	D1	D2	D3	D4	D5	D6	D7	D8	F1	F2	H1	H2	List
TH20A-45X	80/90	.55/.75/ 1.1/1.5	Blank 45mm Pilot	45	130	135	130	165	200	12	M10			95	16	90.00
TH20A-508A			SAE A 2 Bolt Mount	50.8								82.55	M8	95		84.00
TH1-825A			SAE A 2 Bolt Mount	82.55								106	M10	126		84.00

100/112 Frame Bell Housing																OMT
Part Number	Frame	Kw @ 1440	Pump Type Mount	D1	D2	D3	D4	D5	D6	D7	D8	F1	F2	H1	H2	List
TH2-63X	100/112	2.2/3/4	Blank 53mm Pilot	63	176	183	180	215	250	14	M12			136	21	122.00
TH2-825A			SAE A 2 Bolt Mount	82.55								106	M10			120.00
TH2-101A			SAE B 2 Bolt Mount	101.6								146	M12			122.00
TH2-101B			SAE B 4 Bolt Mount	101.6								127	M12			122.00

132 Frame Bell Housing																OMT
Part Number	Frame	Kw @ 1440	Pump Type Mount	D1	D2	D3	D4	D5	D6	D7	D8	F1	F2	H1	H2	List
TH3-80X	132	5.5/7.5	Blank 80mm Pilot	80	230	235	230	265	300	14	M12			170	21	164.00
TH3-825A			SAE A 2 Bolt Mount	82.55								106	M10			164.00
TH3-101A			SAE B 2 Bolt Mount	101.6								146	M12			164.00
TH3-101B			SAE B 4 Bolt Mount	101.6								127	M12			164.00
TH3-127A			SAE C 2 Bolt Mount	127								181	M16			164.00
TH3-127C			SAE C 4 Bolt Mount	127								162	M16			164.00

160/180 Frame Bell Housing																OMT
Part Number	Frame	Kw @ 1440	Pump Type Mount	D1	D2	D3	D4	D5	D6	D7	D8	F1	F2	H1	H2	List
TH4-80X	160/180	11, 15, 18.5 & 22	Blank 80mm Pilot	80	240	253	250	300	350	18	M16			195	25	232.00
TH4-825A			SAE A 2 Bolt Mount	82.55								106	M10			234.00
TH4-101A			SAE B 2 Bolt Mount	101.6								146	M12			234.00
TH4-101B			SAE B 4 Bolt Mount	101.6								127	M12			234.00
TH4-127A			SAE C 2 Bolt Mount	127								181	M16			234.00
TH4-127C			SAE C 4 Bolt Mount	127								162	M16			234.00





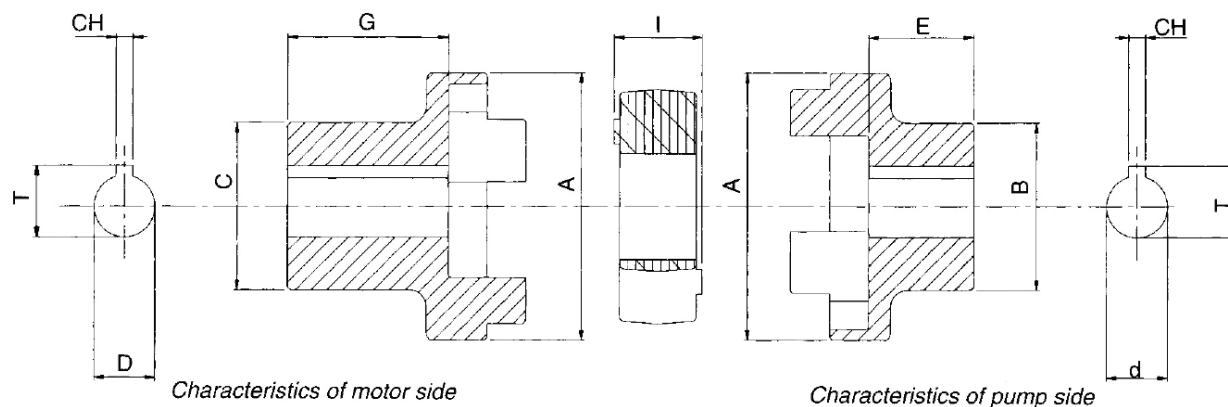
48 Series Coupling Halves

48mm Dia
Torque 6.8NM Max



OMT

Part Number	Motor Frame	Pre-bored	Keyway CH	A	B	C	D	E	G	I	List
ND48A	63	11mm	4mm	48		30	11	17	19	16	14.00
ND48B	71	14mm	5mm	48		30	14	17	29	16	14.00
ND48C	80	19mm	6mm	48		38	19	17	54	16	18.00
ND48D	90	24mm	8mm	48		38	24	17	54	16	18.00
ND48P05M	Group 05	6mm	2mm	48	30		6	19		16	14.00
ND48P05GT	Group 05	7mm	2mm	48	30		7	19		16	14.00
ND48PU1P	Group 1	9.7mm 1:8 Taper	2.4mm	48	30		9.7	17		16	14.00
ND48HD716		7/16"	2.4mm	48	30		11.11	17		16	35.00
NS48CD62		1/2"	3.18mm	48	38		12.7	54		16	35.00
NS48CD10		5/8"	4mm	48	38		15.88	54		16	35.00
ND48CC22		3/4"	4.76mm	48	38		19.05	54		16	35.00
NS48CC23		20mm	5mm	48	38		20	54		16	35.00
NS48CC16	Engine	18mm	5mm	48		33	18		54	16	48.00
ND48CC22	Engine	3/4"	4.76mm	48		33	19.05		54	16	35.00
NS48C	Blank			48		38		54		16	27.00
R42	Rubber Insert										4.00





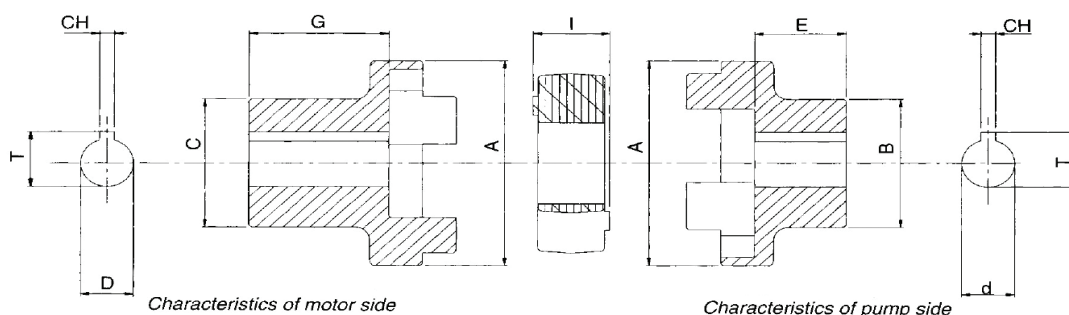
65 Series Coupling Halves

65mm Dia
Torque 38NM Max



OMT

Part Number	Motor Frame	Pre-bored	Keyway CH	A	B	C	D	E	G	I	List
ND65A	80	19mm	6mm	65		42	19		47.5	18	20.00
ND65B	90	24mm	8mm	65		48	24		47.5	18	20.00
ND65C	100/112	28mm	8mm	65		53	28		57.5	18	24.00
ND65PU1P	Group 1	9.7mm 1:8 Taper	2.4	65	34		9.7	21.5		18	20.00
ND65P2	Group 2	17.2mm 1:8 Taper	3.2/4	65	34		17.2	21.5		18	20.00
ND65Q3U	Group 3	22.2mm 1:8 Taper	4	65	48		22.2	21.5		18	20.00
ND65PZF	Group 2	1:5 Taper									20.00
ND65HD16		18mm	5mm								40.00
ND65HD716		7/16"	2.4	65	34		11.11	21.5		18	47.00
NS65PD62		1/2"	3.18	65	34		12.7	21.5		18	25.00
ND65QD10		5/8"	4	65	34		15.88	31.5		18	32.00
ND65HD22		3/4"	4.76	65	42		19.05	50		18	35.00
ND65H4D22	Engine	3/4"	4.76	65	42		19.05	40		18	47.00
ND65HD99		7/8"	4.76/6.35	65	42		22.22	50		18	35.00
ND65H8D99		7/8"	6.35	65	42		22.22	40		18	47.00
NS65CD35		1"	6.35	65	53		25.4	57.5		18	37.00
ND65MC35	Engine	1"	6.35	65		53	25.4		66.5	18	47.00
ND65HD24		20mm	6	65	42		20	50		18	37.00
ND65HD34		25mm	8	65	42		25	50		18	37.00
ND65MC33	Engine	25mm	7	65		53	25		66.5	18	41.00
NS65C	Blank			65		53		57.5		18	47.00
R62	Rubber Insert										8.00





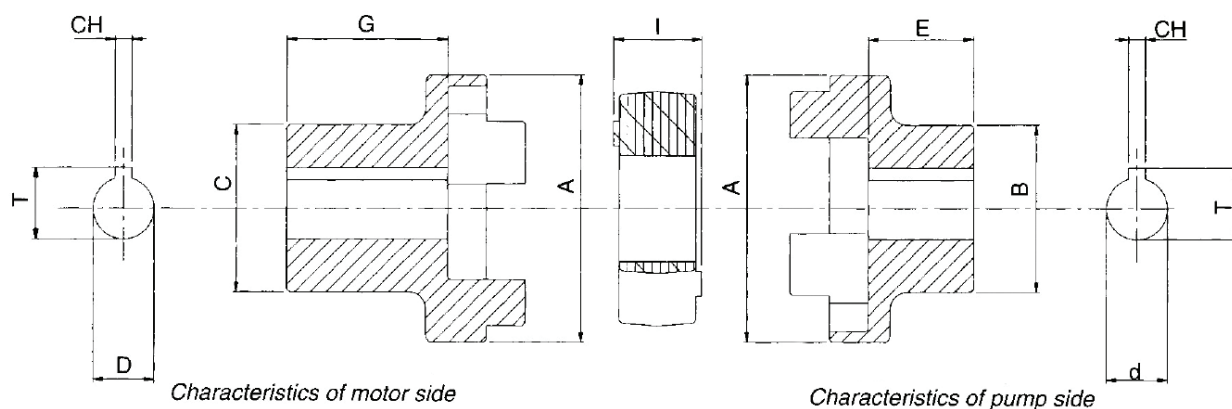
86 Series Coupling Halves

86mm Dia
Torque 87NM Max



OMT

Part Number	Motor Frame	Pre-bored	Keyway CH	A	B	C	D	E	G	I	List
ND86HD20	80	19mm	6mm	86		55	19		48	20	45.00
ND86HD31	90	24mm	8mm	86		55	24		48	20	45.00
ND86A	100/112	28mm	8mm	86		55	28		60	20	45.00
ND86B	132	38mm	10mm	86		73	38		88	20	65.00
NS86BD51	160	42mm	12mm	86		73	42		88	20	107.00
ND86P2	Group 2	Group 2 1:8 Taper	3.2, 4	86	48		17.2	27		20	32.00
ND86H3U	Group 3	Group 3, 1:8 Taper	4	86	55		22.2	48		20	49.00
ND86P3U	Group 3	Group 3, 1:8 Taper	4	86	48		22.2	27		20	35.00
ND86PD10		5/8"	4	86	48		15.88	27		20	47.00
ND86HD22		3/4"	4.76	86	55		19.05	48		20	47.00
ND86HD99		7/8"	4.76/6.35	86	55		22.22	48		20	47.00
ND86KD35		1"	6.35	86	64		25.4	68		20	59.00
ND86HD17		18mm	6	86	55		18	48		20	49.00
ND86HD24		20mm	6	86	55		20	48		20	49.00
ND86HD34		25mm	8	86	55		25	48		20	49.00
ND86KD43		32mm	10	86	64		32	68		20	59.00
NS86B	Blank	SAE 3/4"		86		73		88		20	97.00
NDG86-9T-58		SAE 5/8" 9T Splined		86	56			30	60	20	233.00
NDG86-11T-34		11T Splined		86	56			50	60	20	233.00
NDG86-13T-78		SAE 7/8" 13T Splined		86	56			50	60	20	233.00
NDG86-14T-114		SAE 1 1/4" 14T Splined		86	56			60	60	20	233.00
NDG86-15T-1		SAE 1" 15T Splined		86	56			30	60	20	233.00
R82	Rubber Insert										11.00





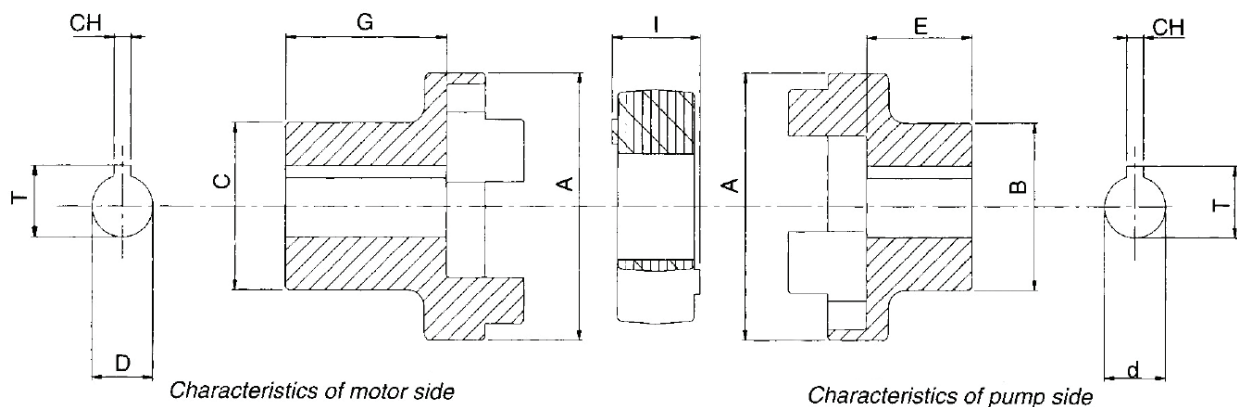
108 Series Coupling Halves

108mm Dia
Torque 210NM Max



OMT

Part Number	Motor Frame	Pre-bored	Keyway CH	A	B	C	D	E	G	I	List
ND108A	132	38mm	10mm	108		73	38		77	24	116.00
ND108B	160	42mm	12mm	108		84	42		110	24	116.00
ND108C	180	48mm	14mm	108		100	48		110	24	143.00
ND108D	200	55mm	16mm	108		100	55		110	24	143.00
ND108P2	Group 2	Group 2, 1:8 Taper	3.2, 4	108	64		17.2	34		24	51.00
ND108P3U	Group 3	Group 3, 1:8 Taper	4	108	64		22.2	34		24	51.00
NS108A3D10		5/8"	4	108	64		15.88	70		24	109.00
ND108HD22		3/4"	4.76	108	64		19.05	48		24	63.00
ND108HD99		7/8"	4.76/6.35	108	64		22.22	48		24	63.00
NS108A3D35		1"	6.35	108	64		25.4	70		24	109.00
ND108HD98		1 1/4"	7.94	108	64		31.75	48		24	63.00
ND108KD48		1 1/2"	9.52	108	64		38.1	70		24	63.00
ND108HD24		20mm	6	108	64		20	48		24	63.00
ND108HD34		25mm	8	108	64		25	48		24	63.00
ND108KD43		32mm	10	108	64		32	70		24	65.00
ND108KD50		40mm	12	108	64		40	70		24	65.00
NS108C	Blank			108		100		110		24	190.00
R103	Rubber Insert										15.00



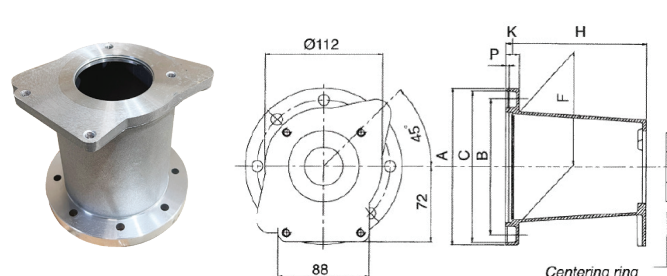
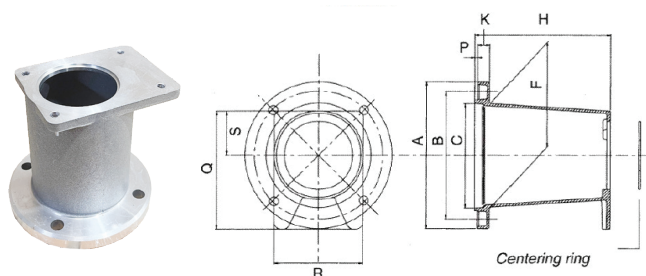


OMT

Part Number	A	B	C	H	Pump Type	Power Kw (HP)	Engine Spigot	List
LMH151	110	92	78.5	98	Group 1 4 Bolt	2.2-4 (3-5.5)	Male 41.3mm	64.00
LMH401	146	127	110	134	Group 1 4 Bolt	5-13.5 (7-18)	Male 110mm	106.00
LMH403	146	127	110	134	Group 2 4 Bolt	5-13.5 (7-18)	Male 110mm	106.00
LB152U1P	152	128	146	142	Group 1 4 Bolt	5-13.5 (7-18)	Female 146mm	82.00
LB1522	152	128	146	142	Group 2 4 Bolt	5-13.5 (7-18)	Female 146mm	82.00
LB152825A	152	128	146	142	SAE A 2 Bolt	5-13.5 (7-18)	Female 146mm	73.00
LB152101A	152	128	146	142	SAE B 2 Bolt	5-13.5 (7-18)	Female 146mm	73.00
LB170U1P	170	128	163.5	142	Group 1 4 Bolt	13.5Kw (18Hp)	Female 163.5mm	92.00
LB1702	170	128	163.5	142	Group 2 4 Bolt	13.5Kw (18Hp)	Female 163.5mm	94.00
LB1703U	170	128	163.5	142	Group 3 4 Bolt	13.5Kw (18Hp)	Female 163.5mm	94.00
LB170825A	170	127	163.5	142	SAE A 2 Bolt	13.5Kw (18Hp)	Female 163.5mm	73.00
LB170101A	170	127	163.5	142	SAE B 2 Bolt	13.5Kw (18Hp)	Female 163.5mm	73.00

LMH Dimensions

LB Dimensions



Couplings to suit Petrol Engine Bell Housings

OMT

Part Number	Pump Shaft	To Suit Bell Housing	Power Kw (HP)	Engine Shaft Ø	List
ND48CC22	3/4" Keyed	LMH151	2.2 - 4 (3 - 5.5)	3/4" Keyed	35.00
ND48PU1P	Group 1 Taper				14.00
R42	Insert				4.00
ND65MC35	1" Keyed	LMH401	5 - 13.5 (7 - 18)	1" Keyed	47.00
ND65PU1P	Group 1 Taper				20.00
R62	Insert				8.00
ND65MC35	1" Keyed	LB1522	5 - 13.5 (7 - 18)	1" Keyed	47.00
ND65P2	Group 2 Taper				20.00
R62	Insert				8.00
ND65MC35	1" Keyed	LB152825A	5 - 13.5 (7 - 18)	1" Keyed	47.00
ND65QD10	5/8" Keyed				32.00
R62	Insert				8.00

Group 05 Pump - 2 Bolt Mount - 22mm Spigot

RB

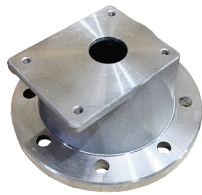
Frame	KW @ 1440	KW @ 2900	Part Number		List
			Bell Housing	Adaptor	
D71	0.37	0.55	BH161-02-01	AR1-01	60.00



Group 1 Pumps - 4 Bolt Mount - 25.4mm Spigot

RB

Frame	KW @ 1440	KW @ 2900	Part Number		List
			Bell Housing	Adaptor	
D63	.12, .18		L1402		37.00
D71	0.25, 0.37	0.55	BH161-02-01	AR1-02	60.00
D80	.55 / .75	.75 / 1.1	BH202-04-02	AR3-02	76.00
D90	1.1 / 1.5	1.5 / 2.2	BH202-04-02	AR3-02	76.00
D100	2.2 / 3	3	BH252-04-02	AR3-02	94.00
D112	4	4	BH252-04-02	AR3-02	94.00



Group 2 Pump - 4 Bolt Mount - 36.5mm Spigot

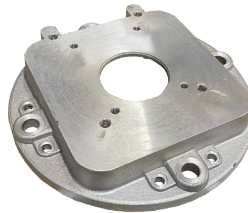
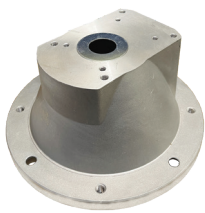
RB

Frame	KW @ 1440	KW @ 2900	Part Number		List
			Bell Housing	Adaptor	
D80	.55 / .75	.75 / 1.1	BH202-04-02	AR3-04	76.00
D90	1.1 / 1.5	1.5 / 2.2	BH202-04-02	AR3-04	76.00
D100	2.2 / 3	3	BH252-04-02	AR3-04	94.00
D112	4	4	BH252-04-02	AR3-04	94.00
D132	5.5 / 7.5	7.5 / 11	BH303-06-04	AR3-04	154.00
160	11 / 15	15 / 18.5	B350A	F24P033-06-04	346.00
180	18.5 / 22	22	B350A	F24P033-06-04	346.00
200	30		B400A	F24P033-06-04	532.00
225	37 / 45		B450A	F24P033-06-04	614.00





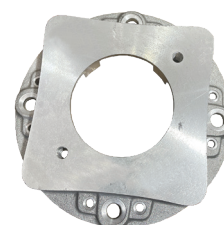
Group 3 Pump - 4 Bolt Mount - 50.8mm Spigot					RB
Frame	KW @ 1440	KW @ 2900	Part Number		List
			Bell Housing	Adaptor	
132	5.5 / 7.5	7.5 / 11	BH303-06-04	AR3-06	154.00
132	5.5 / 7.5	7.5 / 11	B300A	F24P033-06-04	436.00
160	11 / 15	15 / 18.5	B350A	F24P033-06-04	346.00
180	18.5 / 22	22	B350A	F24P033-06-04	346.00
200	30		B400A	F24P033-06-04	532.00
225	37 / 45		B450A	F24P033-06-04	614.00



SAE A Pump - 2 Bolt Mount - 82.55mm Spigot						RB
Frame	KW @ 1440	KW @ 2900	Length	Part Number		List
				Bell Housing	Adaptor	
D80	.55 / .75	.75 / 1.1	98mm	BH202-82A		80.00
D80	.55 / .75	.75 / 1.1	127mm	BH202-17/080U	FR50-082A	142.00
D90	1.1 / 1.5	1.5 / 2.2	98mm	BH202-82A		80.00
D90	1.1 / 1.5	1.5 / 2.2	127mm	BH202-17/080U	FR50-082A	142.00
D100	2.2 / 3	3	110mm	BH252-82A		104.00
D100	2.2 / 3	3	139mm	BH252-17/080U	FR50-082A	160.00
D112	4	4	110mm	BH252-82A		104.00
D112	4	4	139mm	BH252-17/080U	FR50-082A	160.00
D132	5.5 / 7.5	7.5 / 11	139mm	BH303-82A		164.00
D132	5.5 / 7.5	7.5 / 11	152mm	B300A	F24P046-082A	456.00
160	11 / 15	15 / 18.5	182mm	B350A	F24P046-082A	364.00
180	18.5 / 22	22	182mm	B350A	F24P046-082A	364.00
200	30		186mm	B400A	F24P046-082A	550.00
225	37 / 47		216mm	B450A	F24P046-082A	632.00



SAE B Pump 2 Bolt Mount - 101.6mm Spigot						RB
Frame	Kw @ 1440	Kw @ 2900	Length	Part Number		List
				Bell Housings	Adaptor	
D80	.55 / .75	.75 / 1.1	127mm	BH202-17/080U	FR60-101B	154.00
D90	1.1 / 1.5	1.5 / 2.2	127mm	BH202-17/080U	FR60-101B	154.00
D100	2.2 / 3	3	139mm	BH252-17/080U	FR60-101B	172.00
D112	4	4	139mm	BH252-17/080U	FR60-101B	172.00
D132	5.5 / 7.5	7.5 / 11	139mm	BH303-101B		172.00
D132	5.5 / 7.5	7.5 / 11	165mm	B300A	F24P059-101B	462.00
160	11 / 15	15 / 18.5	195mm	B350A	F24P059-101B	372.00
180	18.5 / 22	22	195mm	B350A	F24P059-101B	372.00
200	30		199mm	B400A	F24P059-101B	558.00
225	37 / 45		229mm	B450A	F24P059-101B	640.00



SAE C Pump - 2 Bolt Mount - 127mm Spigot					RB
Frame	Kw @ 1440	Kw @ 2900	Part Number		List
			Bell Housings	Adaptor	
132	5.5 / 7.5	7.5 / 11	B300A	F24P059-127A	462.00
160	11 / 15	15 / 18.5	B350A	F24P059-127A	372.00
180	18.5 / 22	22	B350A	F24P059-127A	372.00
200	30		B400A	F24P059-127A	558.00
225	37 / 45		B450A	F24P059-127A	640.00

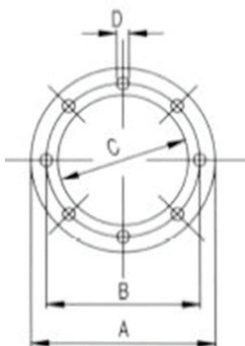




SAE C - 4 Bolt Mount - 127mm Spigot					RB
Frame	Kw @ 1440	Kw @ 2900	Part Number		List
			Bell Housings	Adaptor	
132	5.5 / 7.5	7.5 / 11	B300A	F24P059-127C	462.00
160	11 / 15	15 / 18.5	B350A	F24P059-127C	372.00
180	18.5 / 22	22	B350A	F24P059-127C	372.00
200	30		B400A	F24P059-127C	558.00
225	37/45		B450A	F24P059-127C	640.00



SAE D Pump - 4 Bolt Mount - 152.4mm Spigot					RB
Frame	Kw @ 1440	Kw @ 2900	Part Number		List
			Bell Housings	Adaptor	
132	5.5 / 7.5	7.5 / 11	B300A	F24C124-152G	746.00
160	11 / 15	15 / 18.5	B350A	F24C124-152G	656.00
180	18.5 / 22	22	B350A	F24C124-152G	656.00
200	30		B400A	F24C124-152G	842.00
225	37/45		B450A	F24C124-152G	924.00



Gaskets - Bell Housing						
Part Number	Electric Motor Frame	A	B	C	D	List
BHG160	71	160	130	111	9	6.00
BHG200	80, 90	200	165	146	11	6.00
BHG250	100, 112	250	215	191	14	12.00
BHG300	132	300	265	235	14	14.00
BHG350	160, 180	350	300	261	18	15.00



Bell Housings - German Style Pump Mounts					RB
Frame	Kw @ 1440	Pump Type	Part Number		List
			Bell Housings	Adaptor	
71	.37	B Series	BH161-16		70.00
80, 90	.55,.75,1.1,1.5	B Series	BH202-16		86.00
80, 90	.55,.75,1.1,1.5	F Series	BH202-17/080U		88.00
110, 112	2.2, 3, 4	F Series	BH252-17/080U		106.00
132	5.5, 7.5	F Series	BH303-17/080U		170.00
132	5.5, 7.5	F Series	B300A	F24A033-17	436.00
160, 180	11,15,18.5,22	F Series	B350A	F24A033-17	348.00
200	30	F Series	B400A	F24A033-17	532.00
225	37,45	F Series	B450A	F24A033-17	614.00
132	5.5, 7.5	G Series	B300A	F24A033-18	436.00
160, 180	11,15,18.5,22	G Series	B350A	F24A033-18	348.00
200	30	G Series	B400A	F24A033-18	532.00
225	37,45	G Series	B450A	F24A033-18	614.00

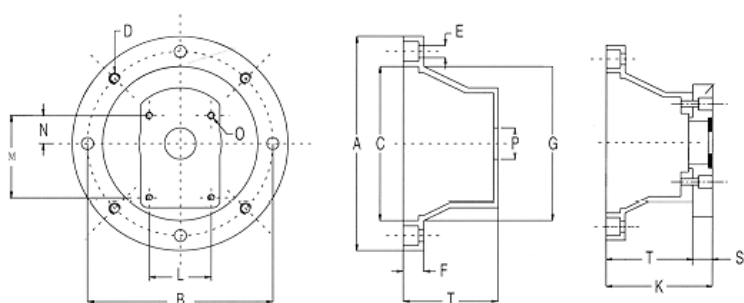
Base - Electric Motor Half										RB
Part Number	Frame	A	B	C	D	E	F	G	H	List
B300A	132	300	265	230	M12	14	20	234	106	266.00
B350A	160/180	350	300	250	M16	18	30	260	136	176.00
B400A	200	400	350	300	M16	18	30	300	140	362.00
B450A	225	450	400	350	M16	18	30	350	170	444.00

Adaptor - Pump Half					RB
Part Number	Pump Flange	Code	S	P Pump Spigot	List
*FR50-082A	SAE A 2 Bolt	082A	29	82.55	56.00
*FR60-101B	SAE B 2 Bolt	101B	29	101.3	66.00
F24P033-06-04	Group 2 Italian		33	36.45	170.00
F24P033-06-04	Group 3 Italian		33	50.75	170.00
F24A033-17	Bosch F Series		33	80	170.00
F24A033-18	Bosch G Series		33	105	170.00
F24P046-082A	SAE A 2 Bolt	082A	46	82.55	188.00
F24P059-101B	SAE B 2 Bolt	101B	59	101.6	196.00
F24P059-127A	SAE C 2 Bolt	127A	59	127	196.00
F24P059-127C	SAE C 4 Bolt	127C	59	127	196.00
F24C124-152G	SAE D 4 Bolt	152G	124	152	480.00

* To suit BH***-17/080U Type Bell Housings

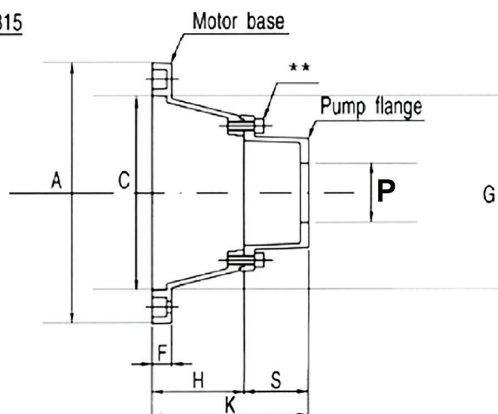
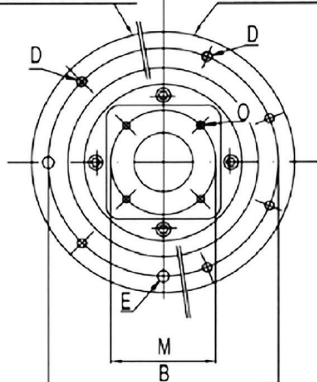


Electric Motor		Bell Housing			A	B	C	D	E	F	G	L	M	N	O	P	T	S	K
		Pump	Part Number	Adaptor															
71	0.27 0.37	Group 05	BH161-02-01	AR1-01	160	130	110	M8	9	14	110	-	66	25.6	M6	22	70	-	-
		Group 1		AR1-02								52.4	72	26.2	M6	25.4			
80	0.75	Group 1	BH202-04-02	AR3-02	200	165	130	M10	11.5	16	136	52.4	72	26.2	M6	25.4	98	-	-
		Group 1		AR3-04								71.5	96	32.5	M8	36.5			
90	1.1 1.5	Group 1	BH202-04-02	AR3-02	200	165	130	M10	11.5	16	136	52.4	72	26.2	M6	25.4	98	-	-
		Group 2		AR3-04								71.5	96	32.5	M8	36.5			
80 90	0.55 0.75 1.1 1.5	SAE A	BH202-082A	-	200	165	130	M10	11.5	16	145	106.4			M10	82.55	98	-	-
			BH202-12/080U	FR50-082A								106.4			M10	82.55	98	29	127
80 90	0.55 0.75 1.1 1.5	SAE B	BH202-17/080U	FR60-101B	200	165	130	M10	11.5	16	145	146			M12	101.6	98	29	127
100 112	2.2 3, 4	Group 1	BH252-04-02	AR3-02	250	215	180	M12	13.5	20	182	52.4	72	26.2	M6	25.4	110	-	-
		Group 2		AR3-04								71.5	96	32.5	M8	36.5			
100 112	2.2 3 4	SAE A	BH252-082A	-	250	215	180	M12	13.5	20	190	106.4			M10	82.55	110	-	-
			BH252-17/080U	FR50-082A								106.4			M10	82.55	110	29	139
100 112	2.2 6 4	SAE B	BH252-17-080U	FR60-101B	250	215	180	M12	13.5	20	182	146			M12	101.6	110	29	139
132	5.5 7.5	Group 2	BH303-06-04	AR3-04	300	265	230	M12	13.5	20	237	71.5	96	32.5	M8	36.5	139	-	-
		Group 3		AR3-06								98.5	128	42	M10	50.8			
132	5.5 7.5 9	SAE A	BH303-082A	-	300	265	230	M12	13.5	20	234	106.4			M10	82.55	110	-	-
132	5.5 7.5 9	SAE B	BH303-101B	-	300	265	230	M12	13.5	20	234	146			M12	101.6	139	-	-



Electric Motor		Bell Housing			A	B	C	D	E	F	G	H	L	M	N	O	P	S	K
Frame	Kw	Pump	Part Number	Adaptor															
132	5.5 7.5 9	Group 2	B300A	F24P033-06-04	300	265	230	M12	13.5	20	234	106	71.5	96	32.5	M8	36.5	33	139
		Group 3		F24P033-06-04									98.5	128	42	M10	50.8	33	139
		SAE A		F24P046-082A									106.4			M10	82.55	46	152
		SAE B		F24P059-101B								106		146		M12	101.6	59	165
		SAE C		F24P059-127A								106		181.2		M16	127	59	165
		SAE C		F24P059-127C								106		161.5		M14	127	59	165
		SAE D		F24C124-152G								106		228.6		M20	152.4	124	230
160	11 15	Group 2	B350A	F24P033-06-04	350	300	250	M16	17.5	30	260	136	71.5	96	32.5	M8	36.5	33	169
		Group 3		F24P033-06-04									98.5	128	42	M10	50.8	33	169
		SAE A		F24P046-082A									106.4			M10	82.55	46	152
		SAE B		F24P059-101B								136		146		M12	101.6	59	195
		SAE C		F24P059-127A								136		181.2		M16	127	59	195
		SAE C		F24P059-127C								136		161.5		M14	127	59	195
		SAE D		F24C124-152G								136		228.6		M20	152.4	124	260
180	18.5 22	Group 2	B350A	F24P033-06-04	350	300	250	M16	17.5	30	260	136	71.5	96	32.5	M8	36.5	33	169
		Group 3		F24P033-06-04									98.5	128	42	M10	50.8	33	169
		SAE A		F24P046-082A									106.4			M10	82.55	46	182
		SAE B		F24P059-101B								136		146		M12	101.6	59	195
		SAE C		F24P059-127A								136		181.2		M16	127	59	195
		SAE C		F24P059-127C								136		161.5		M14	127	59	195
		SAE D		F24C124-152G								136		228.6		M20	152.4	124	260
200	30	Group 2	B400A	F24P033-06-04	400	350	300	M16	17.5	30	300	140	71.5	96	32.5	M8	36.5	33	173
		Group 3		F24P033-06-04									98.5	128	42	M10	50.8	33	173
		SAE A		F24P046-082A									106.4			M10	82.55	46	186
		SAE B		F24P059-101B								140		146		M12	101.6	59	199
		SAE C		F24P059-127A								140		181.2		M16	127	59	199
		SAE C		F24P059-127C								140		161.5		M14	127	59	199
		SAE D		F24C124-152G								140		228.6		M20	152.4	124	264
225	37 45	Group 2	B450A	F24P033-06-04	450	400	350	M16	17.5	30	350	170	71.5	96	32.5	M8	36.5	33	203
		Group 3		F24P033-06-04									98.5	128	42	M10	50.8	33	203
		SAE A		F24P046-082A									106.4			M10	82.55	46	216
		SAE B		F24P059-101B								170		146		M12	101.6	59	229
		SAE C		F24P059-127A								170		181.2		M16	127	59	229
		SAE C		F24P059-127C								170		161.5		M14	127	59	229
		SAE D		F24C124-152G								170		228.6		M20	152.4	124	294

Electric motor frame 132-200 Electric motor frame 225-315





Significant Noise Reduction Compared with all Metal Bell-Housings.

No separate damping flange required.

Complete Electrical Insulation Electric Motor/ Pump.

High Impact Resistance, 100% Recyclable.

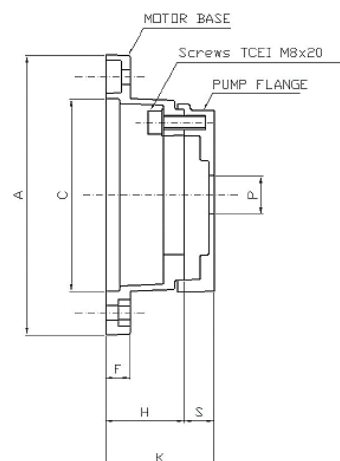
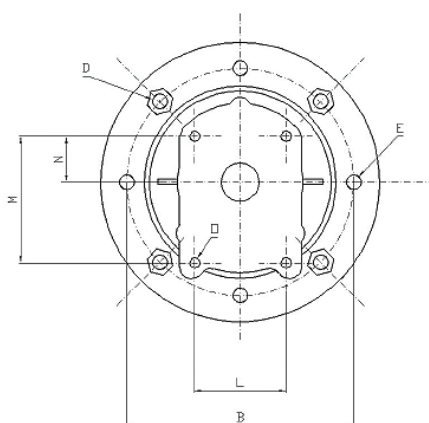
2 Piece Construction.

Bell Housing Base - Electric Motor Half

Electric Motor		Bell Housing	A	B	C	D	E	F	G	H	RB
Frame	Kw	Part Number									Base Only List
63	.12, .25	BHP140	140	115	95	8.5	8.5	14	100	46	30.00
71	.25, .37	BHP160	160	130	110	8.5	8.5	14	110	53	38.00
80	0.75	BHP200	200	165	130	11	11	16	130	73	54.00
90	1.1, 1.5	BHP200	200	165	130	11	11	16	130	73	54.00
100, 112	2.2, 3, 4	BHP250	250	215	180	13.5	13.5	20	180	85	66.00
132	5.5, 7.5	BHP300	300	265	230	13.5	13.5	20	234	106	90.00
160	11, 15	BHP350	350	300	250	M16	17.5	30	260	136	114.00
180	18.5, 22	BHP350	350	300	250	M16	17.5	30	260	136	114.00

Example for Ordering

BHP200 + F10B-04
80 Frame to Group 2 Pump



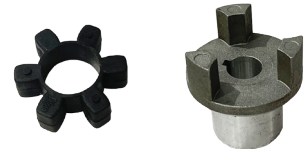
Bell Housing Adaptor Flange - Pump Half

To Suit Bell Housing Bases	Pump Flange Part Number	Pump Type	L	M	N	O	P	S	RB Flange Only List
BHP140 BHP160 BHP200 BHP250	F10A-01	Group 5	-	66	25.6	M6	22	17	40.00
	F10A-02	Group 1	52.4	72	26.2	M6	25.4	17	40.00
	F10B-04	Group 2	71.5	96	32.5	M8	36.5	25	42.00
	F10B-082A	SAE 2	106.4	-		M10	82.55	25	42.00
	F10E-082M	SAE A Extended	106.4	-		M10	82.55	54	62.00
BHP300 BHP350	F24PA033-06-04	Group 2	71.5	96	32.5	M8	36.5	33	170.00
	F24PA033-06-04	Group 3	98.5	128	42	M10	50.8	33	170.00
	F24PA046-082A	SAE A	106.4			M10	82.55	46	188.00
	F24PA059-101B	SAE B	146			M12	101.6	59	196.00
	F24PA059-127A	SAE C 2 Bolt	181.2			M16	127	59	196.00
	F24PA059-127C	SAE C 4 Bolt	161.5	161.5		M14	127	59	196.00



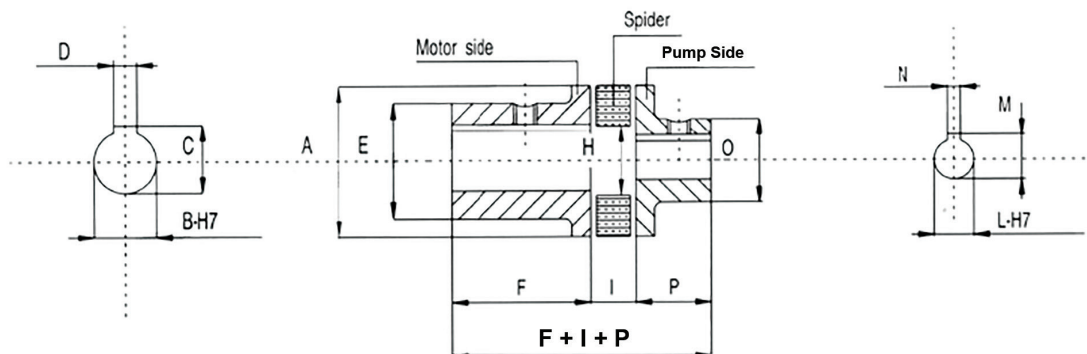
100 Series Coupling Halves

42mm Diameter
Torque Max 20NM



RB

Part Number	Pump Type	Electric Motor Frame	Prebored	Keyway	List
HC101A	Group 1		1 : 8 Taper	2.4 mm	18.00
HC101D	B Series		1 : 5 Taper	2 mm	18.00
HC105A	Group 05		6 mm	2 mm	18.00
HC105B	Group 05		7mm	2 mm	18.00
HC1110		D63	11 mm	4	24.00
HC112H30			12.7mm 1/2"	3.17	28.00
HC1140		D71	14 mm	5	24.00
HC1190		D80	19 mm	6	24.00
HC1240		D90	24 mm	8	24.00
ER100	Insert				10.00



Electric Motor		Pump Type	A	B	C	D	E	F	H	I	L	Taper	M	N	O	P	Part Number
Frame	Kw																
		Group 05	42							15	6		7	2	28	20	HC105A
		Group 05	42							15	7		8	2	28	20	HC105B
		Group 1	42							15	9.8	1:8	10.8	2.4	28	20	HC101A
		B Series	42							15	9.6	1:5	10.7	2	28	17	HC101D
63	.12, .18	-	42	11	11.8	4	28	23	22	15							HC1110
71	.25, .37	-	42	14	16.3	5	28	30	22	15							HC1140
80	.55, .75	-	42	19	21.8	6	36	50	22	15							HC1190
90	1.1, 1.5	-	42	24	27.3	8	36	50	22	15							HC1240
		42								15	12.7		14.3	3.17	28	30	HC112H30



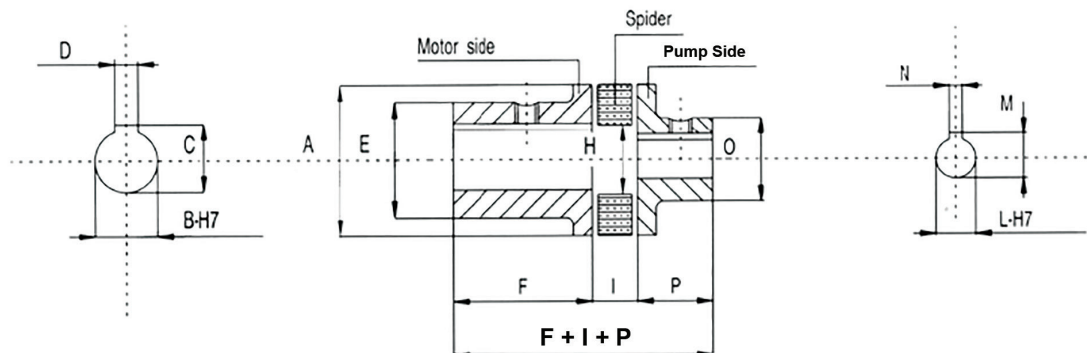
200 Series Coupling Halves

55mm Diameter
Torque Max 80NM



RB

Part Number	Pump Type	Electric Motor Frame	Prebored	Keyway	List
HC201A	Group 1		1:8 Taper	2.4 mm	22.00
HC201D	B Series		1:5 Taper	2 mm	28.00
HC202AB	Group 2		1:8 Taper	3.2, 4mm	30.00
HC2140		D71	14 mm	5 mm	28.00
HC2190		D80	19 mm	6 mm	28.00
HC2240		D90	24 mm	8 mm	28.00
HC2280		100 / 112	28 mm	8 mm	30.00
ER200	Insert				12.00



Electric Motor		Pump Type	A	B	C	D	E	F	H	I	L	Taper	M	N	O	P	Part Number
Frame	Kw																
		Group 1	55							18	9.8	1:8	10.8	2.4	34	25	HC201A
		B Series	55							18	9.6	1:5	10.7	2	34	23	HC201D
		Group 2	55							18	17.2	1:8	18.3	3.2,4	36	23	HC202AB
71	.25, .37	-	55	14	16.3	5	36	21	27	18							HC2140
80	.55, .75	-	55	19	21.8	6	38	49	27	18							HC2190
90	1.1, 1.5	-	55	24	27.3	8	46	49	27	18							HC2240
100, 112	2.2, 3, 4	-	55	28	31.3	8	50	61	27	18							HC2280



300 Series Coupling Halves

65mm Dia
Torque Max 190NM



RB

Part Number	Pump Type	Elec Motor Frame	Prebored	Keyway	List
HC301A	Group 1		1:8 Taper	2.4 mm	28.00
HC302AB	Group 2		1:8 Taper	3.2, 4 mm	28.00
HC302D	F Series		1:5 Taper	3 mm	34.00
HC303A	Group 3		1:8 Taper	4 mm	38.00
HC312H22	1/2" Straight Keyed		1/2"	1/8"	50.00
HC3140		D71	14 mm	5 mm	30.00
HC315L22	5/8" Straight Keyed		5/8"	5/32"	50.00
HC315M22	5/8" Straight Keyed		5/8"	3/16"	50.00
HC3190		D80	19 mm	6 mm	28.00
HC318A35	18mm Straight Keyed		18 mm	6 mm	50.00
HC319M22	3/4" Straight Keyed		3/4"	3/16"	50.00
HC320A35	20mm Straight Keyed		20 mm	6 mm	50.00
HC322A35	22mm Straight Keyed		22 mm	6 mm	50.00
HC322M35	7/8" Straight Keyed		7/8"	3/16"	50.00
HC322M45	7/8" Straight Keyed		7/8"	3/16"	50.00
HC322N45	7/8" Straight Keyed		7/8"	1/4"	50.00
HC3240		D90	24 mm	8 mm	30.00
HC325A45	25mm Straight Keyed		25 mm	8 mm	52.00
HC325N45	1" Straight Keyed		1"	1/4"	50.00
HC331P45	1 1/4" Straight Keyed		1 1/4"	5/16"	50.00
HC3280		100 / 112	28 mm	8 mm	30.00
HC3380		D132	38 mm	10 mm	70.00
ER300		Insert			12.00

Electric Motor		Pump Type	A	B	C	D	E	F	H	I	L	Taper	M	N	O	P	Part Number
Frame	Kw																
		Group 1	65						30	20	9.7	1:8	10.8	2.4	36	26	HC301A
		Group 2	65						30	20	17.2	1:8	18.3	3.2, 4	36	22	HC302AB
		F Series	65						30	20	16.9	1:5	18.1	3	36	22	HC302D
		Group 3	65						30	20	22.1	1:8	23.5	4	46	38	HC303A
			65						30	20	12.7		14.3	3.17	36	22	HC312H22
			65						30	20	15.87		18.1	4.76	36	22	HC315M22
80	.55, .75		65	19	21.8	6	38	48	30	20							HC3190
			65						30	20	19.05		21.3	4.76	36	22	HC319M22
			65						30	20	20		22.8	6	46	35	HC320A35
			65						30	20	22		24.8	6	46	35	HC322A35
			65						30	20	22.22		24.5	4.76	46	35	HC322M35
			65						30	20	22.22		24.5	4.76	46	45	HC322M45
			65						30	20	22.22		25.2	6.35	46	45	HC322N45
90	1.1, 1.5		65	24	27.3	8	46	48	30	20							HC3240
			65						30	20	25		28.3	8	46	45	HC325A45
			65						30	20	25.4		28.4	6.35	46	45	HC325N45
			65						30	20	31.75		35.4	7.94	46	45	HC331P45
100, 112	2.2, 3, 4		65	28	31.3	8	50	60	30	20							HC3280
132	5.5, 7.5		65	38	41.3	10	64	89	30	20							HC3380



500 Series Coupling Halves

95mm Dia
Torque Max 530NM



RB

Part Number	Pump Type	Elec Motor Frame	Prebored	Keyway	List
HC502AB	Group 2		1:8 Taper	3.2, 4 mm	54.00
HC502D	F Series		1:5 Taper	3 mm	56.00
HC503A	Group 3		1:8 Taper	4 mm	56.00
HC503D	G Series		1:5 Taper	5 mm	56.00
HC515L35	5/8" Straight Keyed		5/8"	5/32"	70.00
HC515M35	5/8" Straight Keyed		5/8"	3/16"	70.00
HC518A35	18mm Straight Keyed		18 mm	6 mm	70.00
HC519M35	3/4" Straight Keyed		3/4"	3/16"	70.00
HC520A35	20mm Straight Keyed		20 mm	6 mm	70.00
HC522A35	22mm Straight Keyed		22 mm	6 mm	70.00
HC522M35	7/8" Straight Keyed		7/8"	3/16"	70.00
HC522N35	7/8" Straight Keyed		7/8"	1/4"	70.00
HC522N48	7/8" Straight Keyed		7/8"	1/4"	70.00
HC525A35	25mm Straight Keyed		25 mm	8 mm	70.00
HC525N48	1" Straight Keyed		1"	1/4"	70.00
HC528A48	28mm Straight Keyed		28 mm	8 mm	70.00
HC530A48	30mm Straight Keyed		30 mm	8 mm	70.00
HC531P48	1 1/4" Straight Keyed		1 1/4"	5/16"	70.00
HC532A48	32mm Straight Keyed		32 mm	10 mm	70.00
HC535A48	35mm Straight Keyed		35 mm	10 mm	70.00
HC545A48	45mm Straight Keyed		45 mm	14 mm	TBA
HC5380		132	38 mm	10 mm	84.00
HC5420		160	42 mm	12 mm	104.00
HC5480		180	48 mm	14 mm	1323.00
ER500	Insert				24.00

Electric Motor		Pump Type	A	B	C	D	E	F	H	I	L	Taper	M	N	O	P	Part Number
Frame	Kw																
		Group 2	95						46	26	17.2	1:8	18.3	3.2, 4	50	25	HC502AB
		F Series	95						46	26	16.9	1:5	18.1	3	50	25	HC502D
		Group 3	95						46	26	22.1	1:8	23.5	4	50	25	HC503A
			95						46	26	25.6	1:5	27.7	5	50	25	HC503D
			95						46	26	15.87		18.1	4.76	56	35	HC515M35
			95						46	26	18		20.8	6	56	35	HC518A35
			95						46	26	19.05		21.3	4.76	56	35	HC519M35
			95						46	26	20		22.8	6	56	35	HC520A35
			95						46	26	22.22		24.5	4.76	56	35	HC522M35
			95						46	26	22.22		25.2	6.35	56	35	HC522N35
			95						46	26	25		28.3	8	56	35	HC525A35
			95						46	26	25.4		28.4	6.35	70	48	HC525N48
			95						46	26	28		31.3	8	70	48	HC528A48
			95						46	26	31.75		35.4	7.94	70	48	HC531P48
			95						46	26	32		35.3	10	70	48	HC532A48
			95						46	26	35		38.3	10	70	48	HC535A48
			95						46	26	45		48.8	14	70	48	HC545A48
132	5.5, 7.5		95	38	41.3	10	70	80	46	26							HC5380
160	11, 15		95	42	45.3	12	85	110	46	26							HC5420
180	18.5, 22		95	48	51.8	14	85	110	46	26							HC5480



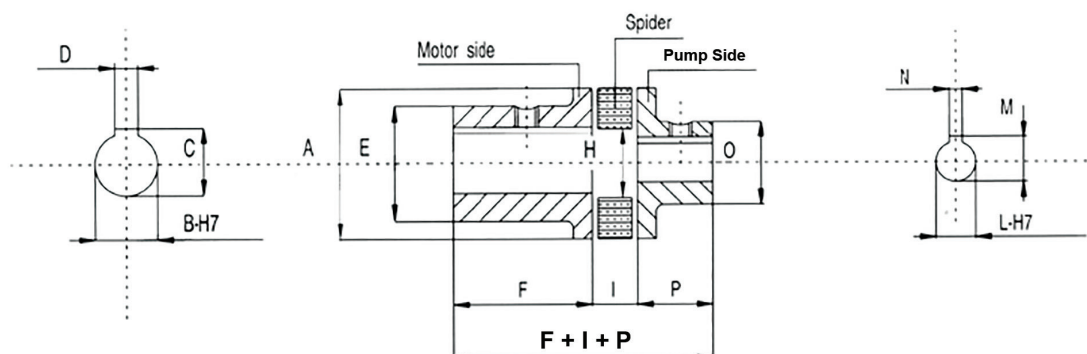
700 Series Coupling Halves

120mm Dia
Torque Max 750NM



RB

Part Number	Pump Type	Elec Motor Frame	Prebored	Keyway	List
HC703A	Group 3		1:8 Taper	4 mm	152.00
HC703D	G Series		1:5 Taper	5 mm	152.00
HC722N48	7/8" Keyed		7/8"	1/4"	200.00
HC725N48	1" Keyed		1"	1/4"	200.00
HC731P48	1 1/4" Keyed		1 1/4"	5/16"	200.00
HC731P65	1 1/4" Keyed		1 1/4"	5/6"	200.00
HC738R48	1 1/2" Keyed		1 1/2"	3/8"	200.00
HC745A65	45mm Keyed		45 mm	14 mm	220.00
HC7480		180	48 mm	14 mm	234.00
HC7550		200	55 mm	16 mm	234.00
HC7600		225	60 mm	18 mm	234.00
ER700	Insert				70.00



Electric Motor		Pump Type	A	B	C	D	E	F	H	I	L	Taper	M	N	O	P	Part Number
Frame	Kw																
		Group 3	120						60	30	22.1	1:8	23.5	4	50	25	HC703A
		G Series	120						60	30	25.6	1:5	27.7	5	50	25	HC703D
			120						60	30	22.22		25.2	6.35	56	35	HC722N35
			120						60	30	25.4		28.4	6.35	70	48	HC725N48
			120						60	30	31.75		35.4	7.94	70	48	HC731P48
			120						60	30	31.75		35.4	7.94	70	65	HC731P65
			120						60	30	38.1		42.5	9.52	70	48	HC738R48
			120						60	30	45		48.8	14	70	48	HC745A48
180	18.5, 22		120	48	51.8	14	85	110	60	30							HC7480
200			120	55	59.3	16	105	110	60	30							HC7550
225			120	60	64.4	18	105	110	60	30							HC7600



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Timalco Hydraulics



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Adjustment between terminals
2mm allen key



F4 Series Pressure Switch - Adjustable - Terminals

Part Number	Switching Pressure Range	Maximum Pressure	Electrical Contact	Port BSPP	List
F4R1/P3	0.2 - 2.5 Bar	25 Bar	NO/NC	G 1/4"	83.00
F4S1/P3	1 - 12 Bar	25 Bar			83.00
F4SP1/P3	1 - 12 Bar	300 Bar			83.00
F4T1/P3	5 - 50 Bar	300 Bar			83.00
F4V1/P3	10 – 100 Bar	300 Bar			83.00
F4Z1/P3	20 – 200 Bar	300 Bar			83.00
F4Y1/P3	50 – 400 Bar	600 Bar			83.00
F4-P2	Rubber Boot				8.00

F4 Series Pressure Switch - Adjustable - M2 & M3 Type Connector

F4 Pressure Switch - Adjustable M2 & M3 Type Connectors					
Part Number	Switching Pressure Range	Maximum Pressure	Electrical Contact	Port BSPP	List
F4R1/M2	0.2 - 2.5 Bar	25 Bar	NO/NC	G 1/4"	107.00
F4S1/M2	1 - 12 Bar	25 Bar			107.00
F4SP1/M2	1 - 12 Bar	300 Bar			107.00
F4T1/M2	5 - 50 Bar	300 Bar			107.00
F4V1/M2	10 – 100 Bar	300 Bar			107.00
F4Z1/M2	20 – 200 Bar	300 Bar			107.00
F4Y1/M2	50 – 400 Bar	600 Bar			107.00
Optional M3 Connectors Available					



K5 Series Pressure Switch - Adjustable

Part Number	Switching Pressure Range	Maximum Pressure	Electrical Contact	Port BSPP	List
K53	2 - 40 Bar	200 Bar	NO/NC	G 1/4"	277.00
K54	5 - 100 Bar	300 Bar			277.00
K55	20 - 200 Bar	400 Bar			277.00
K55P (with adjusting knob)	20 - 200 Bar	400 Bar			323.00
K57	30 - 300 Bar	500 Bar			277.00
K59	40 - 400 Bar	600 Bar			277.00



KTR5 Series Pressure Switch - Adjustable - Built In Relay

Part Number	Switching Pressure Range	Maximum Pressure	Electrical Contact	Port BSPP	List
KTR55	10 - 200 Bar	500 Bar	NO/NC	G 1/4"	460.00



TR4 Series Pressure Transducer 4 - 20mA

Part Number	Adjustment Pressure Range	Maximum Pressure	Supply Voltage	Electrical Connection	Port BSPP	List
TR40/2-M3	0 - 5 Bar	12 Bar	9 - 28 VDC	4 - 20mA 2 Wires	1/4" Male	388.00
TR41/2-M3	0 - 10 Bar	25 Bar				388.00
TR42/2-M3	0 - 20 Bar	50 Bar				388.00
TR43/2-M3	0 - 50 Bar	120 Bar				388.00
TR44/2-M3	0 - 100 Bar	200 Bar				388.00
TR45/2-M3	0 - 200 Bar	400 Bar				388.00
TR49/2-M3	0 - 400 Bar	600 Bar				388.00

TR4 Series Pressure Transducer 0 - 10VDC

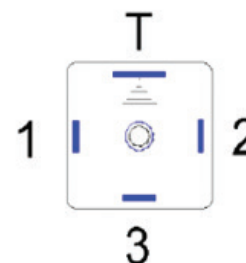
Part Number	Adjustment Pressure Range	Maximum Pressure	Supply Voltage	Electrical Connection	Port BSPP	List
TR40/3-M3	0 - 5 Bar	12 Bar	9 - 28 VDC	0 - 10VDC 3 Wires	1/4" Male	388.00
TR41/3-M3	0 - 10 Bar	25 Bar				388.00
TR42/3-M3	0 - 20 Bar	50 Bar				388.00
TR43/3-M3	0 - 50 Bar	120 Bar				388.00
TR44/3-M3	0 - 100 Bar	200 Bar				388.00
TR45/3-M3	0 - 200 Bar	400 Bar				388.00
TR49/3-M3	0 - 400 Bar	600 Bar				388.00



Electric Connections:

4-20mA 2 Wires:
Pin 1 Power Supply +
Pin 2 Signal 4-20mA

0-10V 3 Wires:
Pin 1 Power Supply +
Pin 2 Signal 0-10V
Pin 3 Gnd



Digital Pressure Switch - Adjustable High and Low Settings

Part Number	Switching Pressure Range	Max Pressure	Supply Voltage	Adjustable Range	Port	List
KL55-M12-24VDC	10 - 200 Bar	500 Bar	24VDC	2 - 95%	G 1/4” BSPP Female	461.00
KL55	0 - 200 Bar	500 Bar	12VDC or 24VDC	2 - 95%		462.00
KL59	0 - 400 Bar	600 Bar				462.00



Electronic Pressure Switch - 2 Separate Adjustable Outputs - Digital Readout

Part Number	Switching Pressure Range	Max Pressure	Supply Voltage	Adjustable Range	Electrical Outputs	Port BSPF	List
KLV59	0 - 400 Bar	600 Bar	12VDC or 24VDC	100%	2	G 1/4" Fem	961.00



Digital Pressure Switch - Adjustable High and Low Settings - 2 Independent output relays

Part Number	Display	Analogue Input	Supply Voltage	Output Relays	List
ATR144	4 Digit 9.6mm	0-10VDC/ 4-20mA	240V	2x 5A-240VAC	654.00

ATR144 Electronic Pressure Switch Works with a 4 - 20mA or 0 - 10Volt Input Signal (Transducer). It constantly displays working pressure and allows activation of 2 fully adjustable Normally Open or Normally Closed relays which can be individually set with minimum and maximum values.



Digital Pressure Switch - Adjustable High and Low Settings - 2 Independent output relays

Part Number	Switching Pressure Range	Max Display Pressure	Supply Voltage	Output Relays	List
KD59	0 - 400 Bar	400 Bar	24VDC	2	908.00

KD59 Electronic Pressure Switch Works with a 4 - 20mA or 0 - 10 Volt Input Signal (Transducer). It constantly displays working pressure and allows activation of 2 fully adjustable Normally Open or Normally Closed relays which can be individually set with minimum and maximum values.



Modular Cetop Adaptors - NG6 & NG10

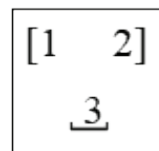
Part Number	Cetop	Maximum Pressure	Connected Ports	List
B6	Cetop 3 (NG6)	350 Bar	A & B or P	134.00
B10	Cetop 5 (NG10)			214.00



TS Type Thermostat

Normally Open/ Normally Closed Electrical Contact

Part Number	Preset Temperature Setting	Maximum Pressure	Hydraulic Connection	List
TS44-1	40°C	200 Bar	1/2" BSPP Male	97.00
TS45-1	50°C			97.00
TS46-1	60°C			97.00
TS47-1	70°C			97.00
TS48-1	80°C			97.00



1 > 2 N/Closed
1 > 3 N/Open

TM Type Thermostat

Normally Open/ Normally Closed Electrical Contact

Part Number		Preset Temperature Setting	Maximum Pressure	Hydraulic Connection	List
Normally Open	Normally Closed				
TM44A1	TM44C1	40°C	200 Bar	1/2" BSPP Male	97.00
TM45A1	TM45C1	50°C			97.00
TM46A1	TM46C1	60°C			97.00
TM47A1	TM47C1	70°C			97.00
TM48A1	TM48C1	80°C			97.00
TM49A1	TM49C1	90°C			97.00

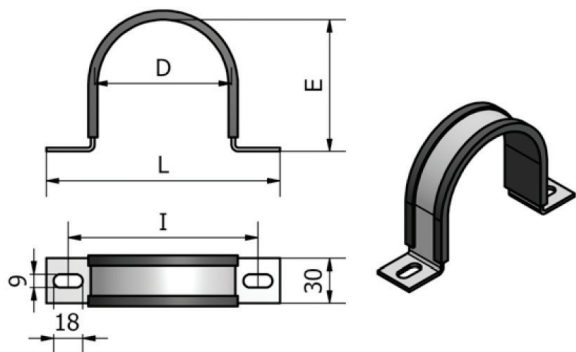
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Part Number		Pre Set Temperature Degree C	Max Pressure	Type of Electrical Contact	Hydraulic Connection	Max Contact Load Amps		
						12VDC	24VDC	220VAC
TM44	TS44	40°C	200 Bar	A Normally Open Contacts	1 1/2" BSPP	10 Amp	5 Amp	10 Amp
TM45	TS45	50°C						
TM46	TS46	60°C		C Normally Closed Contacts	2 3/8" BSPP			
TM47	TS47	70°C						
TM48	TS48	80° C		TS Exchange Contacts 1 > 2 Normally Closed 1 > 3 Normally Open	3 M22x1.5			
TM49		90°C						



Diaphragm Accumulators

Part Number	Size Volume L	Max Pressure	Port	Weight Kg	List
HST-0.35	0.35	300 Bar	M18 x 1.5	3.2	208.00
HST-0.7	0.7			5.5	247.00
HST-1.3	1.3			7.9	600.00
HST-2.3	2.3			10.5	786.00



Clamps

Part Number	L mm	I mm	D mm	E mm	List
CRE100	165	140	100	98	59.00
CRE125	190	165	125	123	71.00
CRE138	215	190	138	136	83.00



Q Series Button Remote Controls

Part Number	Transmitter Function	Dimensions	List
Q400	4 single-speed functions	14.5 x 7.5 x 3.8cm	720.00
Q800	8 single-speed functions	19 x 7.2 x 3.9cm	1040.00
Q1200	12 single-speed functions	23.9 x 7.2 x 3.9cm	2604.00

Transmitter Specifications

Frequency	433MHz
Transmitter RF Power	<10 mW
Remote Control Distance	100m
Power Supply DC	LR6(AA) 1.5Vx2 DC3V
Modulation	GFSK
Frequency Control	PLL
Antenna Impedance	50Ω
Command Response Time	<100ms
Stop Command Response Time	<100ms
Average Power Consumption	8mA@DC3V
Working Temperature	-10°C-+75°C
Net Weight (with Battery)	380g
Case Material	PA6130%GF
Protection Level	IP65

Receiver Specifications

Frequency	433MHz
Transmitter RF Power	-112 dBm
Remote Control Distance	100m
Power Supply AC/DC	Low Voltage 24V ~ 48V High Voltage 110V ~ 460V
Modulation	GFSK
Frequency Control	PLL
Antenna Impedance	50Ω
Reaction Time	50-100ms
Power Capacity	A@AC 5A@250V
Average Power Consumption	15mA@AC220V
Operating Temperature	-10°C-+75°C
Case Material	PA6130%GF
Protection Level	IP65

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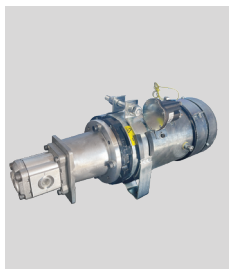

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Timalco Hydraulics





12 & 24 VDC Pump & Motor
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AC Compact Power Units
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Micro Reversible Power
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5HP Petrol Engine
Horizontal Power Unit
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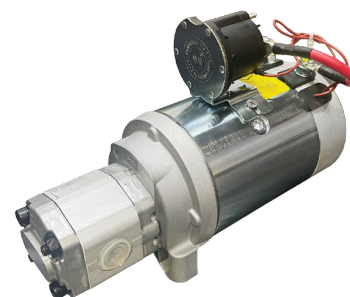
Accessories
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Industrial Power Units
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EPB Pump & Motor Unit Assembly Code

EPB	114	1.6	12DC	ST150	K1.2
Pump Motor Unit	Frame Size 114 151	1.6 Kw 2.2 Kw	Voltage 12DC 24DC	Thermal Switch and Starter Switch (150)	Pump 1.2cc 1.6cc 2.1cc 2.7cc

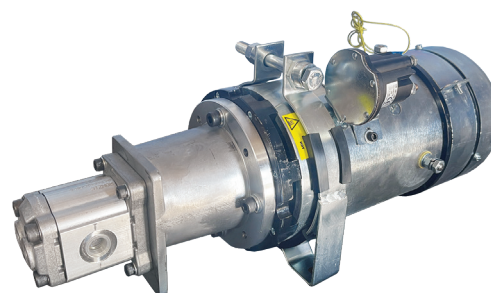


12 VDC 3/8" BSPP Rear Inlet, 1/4" BSPP Side Pressure Outlet

Part Number	Kw	Frame	Volts	Nom Flow @ 2800 rpm	Max Pressure	Max Amps	Nominal Duty Cycle	List
EPB114-1.6 12DCST150K1.2	1.6	114	12 VDC	3.3 LPM	See Chart	210	S2: 3 Min S3: 10%ED	872.00
EPB114-1.6 12DCST150K1.6				4.5 LPM				872.00
EPB114-1.6 12DCST150K2.1				5.8 LPM				872.00
EPB114-1.6 12DCST150K2.7				7.5 LPM				872.00

24 VDC 3/8" BSPP Rear Inlet, 1/4" BSPP Side Pressure Outlet

Part Number	Kw	Frame	Volts	Nom Flow @ 2400 rpm	Max Pressure	Max Amps	Nominal Duty Cycle	List
EPB114-2.2 24DCST150K1.1	2.2	114	24 VDC	2.6 LPM	See Chart	130	S2: 3.5 Min S3: 15%ED	872.00
EPB114-2.2 24DCST150K1.6				3.8 LPM				872.00
EPB114-2.2 24DCST150K2.1				5.0 LPM				872.00
EPB114-2.2 24DCST150K2.7				6.4 LPM				872.00
EPB114-2.2 24DCST150K3.2				7.6 LPM				872.00
EPB114-2.2 24DCST150K3.8				9.1 LPM				872.00



12 VDC Heavy Duty Pump Unit

Part Number	Kw	Frame	Volts	Nom Flow	Max Pressure	Max Amps	Nominal Duty Cycle	List
EPB151-2.5 12DCST150K1.2	2.5	90 Fr 151 Ø	12 VDC	Refer Chart	Refer Chart	290	S2: 16 Min S3: 20% ED	2013.00
EPB151-2.5 12DCST150K1.6								2013.00
EPB151-2.5 12DCST150K2.1								2013.00
EPB151-2.5 12DCST150K2.7								2013.00

24VDC Heavy Duty Pump Unit

Part Number	Kw	Frame	Volts	Nom Flow	Max Pressure	Max Amps	Nominal Duty Cycle	List
EPB151-4.0 24DCST150K1.2	4.0	90Fr 151 Ø	24 VDC	Refer Chart	Refer Chart	240	S2: 10 Min S3: 15% ED	2094.00
EPB151-4.0 24DCST150K1.6								2094.00
EPB151-4.0 24DCST150K2.1								2094.00
EPB151-4.0 24DCST150K2.7								2094.00
EPB151-4.0 24DCST150K3.2								2094.00
EPB151-4.0 24DCST150K3.8								2094.00

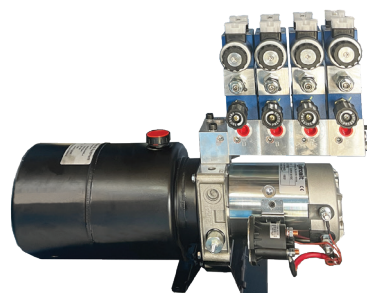
DC Compact Power Unit Assembly Code

PPC	1612DC	S	A	K26	D Cavity 1	G Cavity 2	5	B	+	E60403010	4WE6D60
Compact Power Unit			Central Manifold	Pump	Relief Valve 200 Bar Max		5L Tank Please find more tank size options on the next page.			Standard Cetop Manifold Block	
1612DC STANDARD 1.6 Kw, 12VDC 2224DC STANDARD 2.2 Kw, 24VDC Other options available on request		Starter Switch and Thermal Switch STANDARD				G P & T STANDARD A Single Acting STANDARD U P & T with Hand Pump STANDARD		B Horizontal Unit STANDARD BV Verticle Unit		Solenoid Valve 4WE6D60/EG12N9K4Z5LS 2 Position Cetop 3, 12VDC 4WED60/EG24N9K4Z5LS 2 Position Cetop 3, 24VDC 4WEG60/EG12N9K4Z5LS 3 Position Cetop 3, 12VDC 4WE6G60/EG24N9K4Z5LS 3 Position Cetop 3, 24VDC	



PPC Compact Power Units DC

Part Number	Voltage	Relief Setting	Type	Nom Tank	List
PPC1612DCSAK26D200G5B	12 VDC	200 Bar	P & T	5 Litre Horizontal	1225.00
PPC2224DCSAK26D200G5B	24 VDC				1225.00
PPC1612DCSAK26D200A5B LSV2-08-2NCRP LC2-08C*H 18209-12V	12 VDC		Single Acting		1339.00
PPC2224DCSAK26D200A5B LSV2-08-2NCRP LC2-08C*H 18209-24V	24 VDC				1339.00
PPC1612DCSAK26D200U5B CM04M000	12 VDC		P & T with Hand Pump		1329.00
PPC2224DCSAK26D200U5B CM04M000	24 VDC				1329.00
E60543006	Foot Mount Option		Not Included	Add	39.00



PPC Compact DC Power Units Double Acting

Part Number	Voltage	Relief Setting	Type	Nom Tank	List
PPC1612DCSAK26D200G5B E60403010 4WE6D60/EG12N9K4Z5LS	12 VDC	200 Bar	2 Position NG6 Double Acting	5 Litre Horizontal	1492.00
PPC2224DCSAK26D200G5B E60403010 4WE6D60/EG24N9K4Z5LS	24 VDC				1492.00
PPC1612DCSAK26D200G5B E60403010 4WE6G60/EG12N9K4Z5LS	12 VDC		3 Position NG6 P-T in Neutral		1572.00
PPC2224DCSAK26D200G5B E60403010 4WE6G60/EG24N9K4Z5LS	24 VDC		Double Acting		1572.00



Tank Options

Part Number	Size	Filling Volume Litres		Shape	Length	Width	Depth	ØD	Weight	Add to List
		Horizontal	Vertical							
E60303001	1.5	1.5	1.0	Round	150			130	0.78 Kg	13.00
E60303004	2.5	2.5	2.0	Round	235			130	1.05 Kg	13.00
E60303006	5	6.3	5.1	Round	300			180	1.82 Kg	NC
E60303011	10	8.3	6.3	Round	262			220	2.01Kg	27.00
E60303012	12	12.5	10.9	Round	380			220	2.47 Kg	53.00
E60303042	10	9.6	8.1	Square	330	185	185		5.50 Kg	53.00
E60303044	22	20.6	18.5	Square	470	223	223		6.80 Kg	247.00
E60303041	8		10.4	Square	156	306	256		4.50 Kg	107.00
E60303014	15		18.5	Square	260	306	256		5.20 Kg	128.00
E60303015	20		20.8	Square	293	350	280		6.50 Kg	247.00
E60303048	30		33.5	Square	423	350	280		8.50 Kg	301.00

AC Compact Power Unit Assembly Code

PPC	B14	0.37	AC	S	4	71	UA	K11	J Cavity 0	V200 Cavity 1	G Cavity 2	5B
Compact Power Unit	Flange Type	KW 0.37 0.55 0.75 1.10 1.50 2.20	AC	Phases S = Single 3 = 3 Phase	Poles 4 = 4 Poles 2 = 2 Poles	Frame Size 71 80 90 100 112	Central Manifold	Pump Type & cc 1.1 1.6 2.1 2.6 3.2 3.7 4.2 5.0 6.0 7.9	Cavity 0 (Standard) Check Valve	Cavity 1 (Standard) Relief Valve	Cavity 2 (Standard) Plug	Tank (Standard) 5L Round Steel



240 Volt, Single Phase 4 Pole Power Units
1/4" BSPP P & T Ports, 5L Round Steel Tank

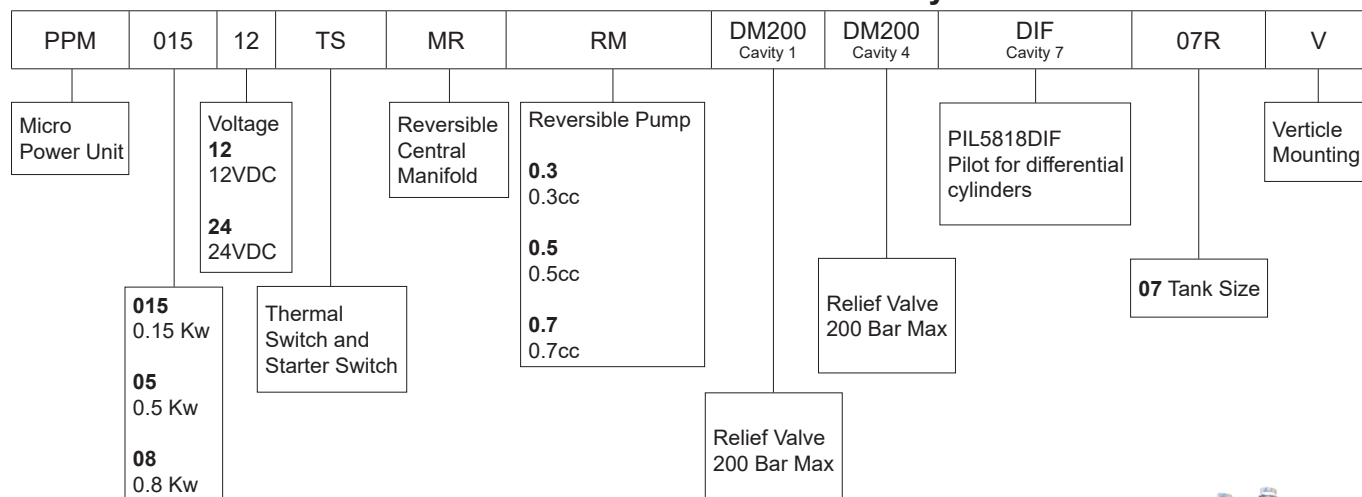
Part Number	Kw	Frame	Volts	Flow	Max Press	Steel Tank Size	List
PPC-B14 037 AC S4 71-UA K11 J V200 G 5B	.37	71FR	240	1.5 LPM	140 Bar	5 Litre	1382.00
PPC-B14 055 AC S4 71-UA K16 J V200 G5 B	.55	71FR		2.3 LPM			1527.00
PPC-B14 075 AC S4 80-UA K21 J V200 G5 B	.75	80FR		3 LPM			1500.00
PPC-B14 110 AC S4 90-UA K32 J V200 G5 B	1.1	90FR		4.6 LPM			1540.00
PPC-B14 150 AC S4 90-UA K42 J V200 G5 B	1.5	90FR		6 LPM			1679.00
PPC-B14 220 AC S4 100-UA K49 J V200 G5 B	2.2	100FR		7 LPM			2088.00

415 Volt, 3 Phase 4 Pole Power Units
1/4" BSPP P & T Ports, 5L Round Steel Tank

Part Number	Kw	Frame	Volts	Flow	Max Press	Steel Tank Size	List
PPC-B14 037 AC 34 71-UA K11 J V200 G 5B	.37	71FR	415	1.5 LPM	140 Bar	5 Litre	1249.00
PPC-B14 055 AC 34 71-UA K16 J V200 G5 B	.55	71FR		2.3 LPM			1356.00
PPC-B14 075 AC 34 80-UA K21 J V200 G5 B	.75	80FR		3 LPM			1356.00
PPC-B14 110 AC 34 90-UA K32 J V200 G5 B	1.1	90FR		4.6 LPM			1413.00
PPC-B14 150 AC 34 90-UA K42 J V200 G5 B	1.5	90FR		6 LPM			1554.00
PPC-B14 220 AC 34 100-UA K49 J V200 G5 B	2.2	100FR		7 LPM			1764.00



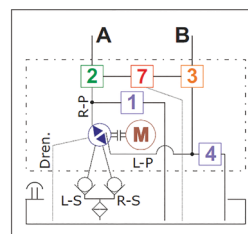
Micro Reversible Power Unit Assembly Code



Micro Power Units
12 & 24 Volt DC

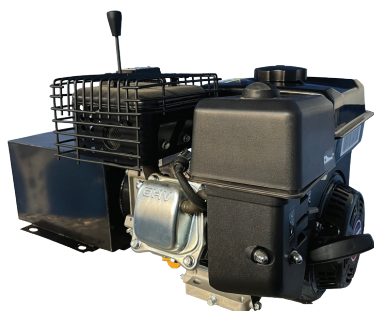
With Pilot Check Valves
Suitable for Cylinders

Reversible



PPM Micro Reversible DC Power Units

Part Number	Kw	Voltage	Relief Setting	Type	Nom Tank	List
PPM01512TSMR03200DIF07RV	0.15	12 VDC	200 Bar	A & B With PO Check	.7 Litre Vertical	1460.00
PPM01524TSMR03200DIF07RV	0.15	24 VDC				1460.00
PPM0512TSMR05200DIF07RV	0.5	12 VDC				1460.00
PPM0524TSMR05200DIF07RV	0.5	24 VDC				1460.00
PPM0812TSMR07200DIF07RV	0.8	12 VDC				1460.00
PPM0824TSMR07200DIF07RV	0.8	24 VDC				1460.00



5HP Petrol Engine Horizontal Power Unit

200 Bar Relief

Part Number	HP	Tank	Pump Displacement	Max Engine Speed	List
PPC-MG50-UAK27D200G-10C	5	10L Horizontal Steel	2.7cc	3600 rpm	3850.00



Tank Options

Part Number	Size	Capacity Litres		Type	L	Dia	List
		Horizontal	Vertical				
H50403001	0.4 L	.45	.35	Round Plastic	90	97	102.00
H50403002	0.7 L	.75	.62		124	97	106.00



Tank Spare Parts

Part Number	Size	Filling Volume Litres		Shape	Length	Width	Depth	ØD	Weight	List
		Horizontal	Vertical							
E60303001	1.5	1.5	1.0	Round	150			130	0.78 Kg	82.00
E60303004	2.5	2.5	2.0	Round	235			130	1.05 Kg	162.00
E60303006	5	6.3	5.1	Round	300			180	1.82 Kg	147.00
E60303011	10	8.3	6.3	Round	262			220	2.01Kg	168.00
E60303012	12	12.5	10.9	Round	380			220	2.47 Kg	186.00
E60303042	10	9.6	8.1	Square	330	185	185		5.50 Kg	238.00
E60303044	22	20.6	18.5	Square	470	223	223		6.80 Kg	351.00
E60303014	15		18.5	Square	260	306	256		5.20 Kg	253.00
E60303015	20		20.8	Square	293	350	280		6.50 Kg	347.00
E60303048	30		33.5	Square	423	350	280		8.50 Kg	400.00



DC Electric Motors with Thermal Overload Protection



DC Electric Motors

Part Number	Dia	Watts	Assembly Code	Volts	Nom Speed	Nom Current	Nom Duty Cycle	List
M46C1ST05	80mm	500	0.5 12DC_T	12	2400	68A	S2: 5min S3: 15%ED	368.00
M46C2ST05	80mm	500	0.5 24DC_T	24	2500	31A	S2: 3min S3: 10%ED	368.00
M46C1ST08	80mm	800	0.8 12DC_T	12	2800	119A	S2: 3min S3: 10%ED	368.00
M46C2ST08	80mm	800	0.8 24DC_T	24	3100	52A	S2: 3min S3: 10%ED	368.00
M46C1ST16	114mm	1600	1.6 12DC_T	12	2800	210A	S2: 3min S3: 10%ED	506.00
M46C1ST21	114mm	2100	2.1 12DC_T	12	2400	300A	S2: 2.5min S3: 10%ED	751.00
M46C2ST22	114mm	2200	2.2 24DC_T	24	2400	130A	S2: 3.5min S3: 15%ED	506.00
M46C2ST30	125mm	3000	3 24DC_T	24	2600	180A	S2: 4min S3: 8%ED	981.00
M46C2SSF30FE	125mm	3000	3 24DC_FE	24	2600	180A	S2: 5min S3: 10%ED	1194.00
MB14C1ST25	151mm	2500	2.5HD 12DC_T	12	1700	290A	S2: 16min S3: 20%ED	1452.00
MB14C2ST40	151mm	4000	4HD 24DC_T	24	2000	240A	S2: 10min S3: 15%ED	1533.00
M46FP1125	Modular Fan Cooling Kit to Suit PPC 114 and 125 Motors							119.00



DC Starting Relays

Part Number	Volts	Nom Current Amps	Peak Current Amps	Max Current Draw	Weight Kgs	List
M47SC0001	12V	150A	800A	2.07A	0.36	112.00
M47SC0002	24V	150A	800A	0.99A	0.36	112.00
M47ZC0001	12V	200A	800A	1.6A	0.50	129.00
M47ZC0002	24V	200A	800A	0.7A	0.70	129.00
Reversible						
M47NB0001	12V	100A	400A	1A	0.50	553.00
M47NB0002	24V	100A	400A	0.5A	0.50	553.00



Accessories

Part Number		List
P46FP1401	Pulley Drive	388.00
FTE270000	Petrol Engine Mount	608.00
T54001010	Petrol Engine Coupling	496.00
E60543006	Foot Mount Bracket	39.00
CM04M0000	Manual Lever with Microswitch	245.00
PMC02000	Hand Pump 2cc Cartridge Type	105.00
P02.1	2 Button Switch & 4M Cord Set	165.00
P02.2	4 Button Switch & 4M Cord Set	165.00
VSC01A	1 LPM Pressure Compensated Flow Control Cartridge 1/4" BSPP	37.00
VSC01B	2 LPM Pressure Compensated Flow Control Cartridge 1/4" BSPP	37.00
VSC01C	3 LPM Pressure Compensated Flow Control Cartridge 1/4" BSPP	37.00
VSC040102	1 LPM Pressure Compensated Flow Control Cartridge O-Ring	37.00
VSC040202	2 LPM Pressure Compensated Flow Control Cartridge O-Ring	37.00
VSC040302	3 LPM Pressure Compensated Flow Control Cartridge O-Ring	37.00
M46FP1125	Modular Fan Cooling Kit to suit 114 and 125 Dia Motors Increases S2 Time by 25-30%	119.00
F16000001	Plastic Cover to Suit 114 Diameter DC Motors	51.00
E70100004	Plug 3/4" - 16 UNF	10.00
E70100005	Cavity Plug Code G 3/4" UNF Cavities 2, 3, 4	27.00
EM9001C	Gauge Isolator 1/4" BSPP Straight	39.00
F0201385	Filter Element Spin On to Suit E60403020	95.00
F16000001	Plastic Cover 112mm Diameter DC Motors refer MACCH00001	51.00
F2503003	Adaptor Flange B14 71 Frame Electric Motor to PPC Micro Power Units	61.00
F27010001	Adaptor Flange B14 71 Frame Electric Motor 20mm	68.00
F27010002	Adaptor Flange B14 80 Frame Electric Motor 22mm	74.00
F27010003	Adaptor Flange B14 90 Frame Electric Motor 32mm	74.00
F27010004	Adaptor Flange B14 100/112 Frame Electric Motor 58mm	82.00
FTE270000	Bell Housing Adaptor to Suit MG50 Petrol Engine to Central Manifold	608.00
M47SK0801	Start Switch Assembly Kit 800KW 150Amp	22.00
M47SK1121	Start Switch Solenoid Mounting Kit	15.00
M47SK1251	Solenoid Mounting Kit 200 Amp Heavy Duty	22.00
MACVH00001	Cover to Suit 114 Diameter DC Motors - Plastic replaces F16000001	53.00
MASRH00001	Starting Switch 200 Amp 12VDC replaces M472C0001	129.00
MASRH00002	Starting Switch 200 Amp 24VDC replaces M472C0002	129.00

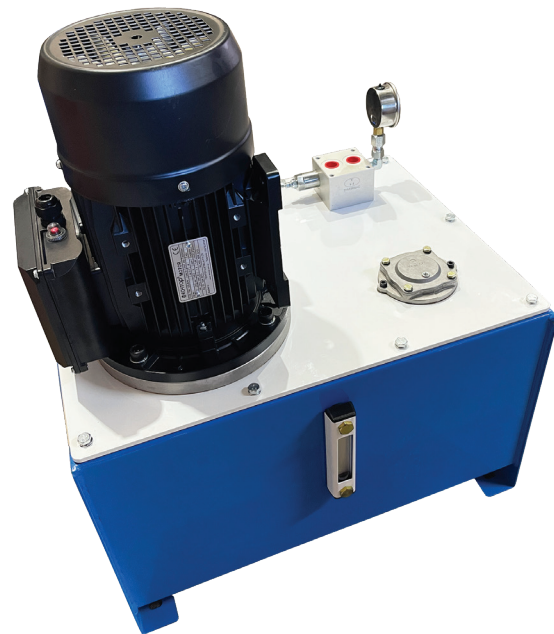


Manifolds

Part Number		List
E60102032	Micro Central Manifold Reversible	654.00
E60102033	Micro Central Manifold Type M4 for Directional Cartridge Valve	307.00
E60104020	PPC Central Manifold UA Type	228.00
E60104021	PPC Central Manifold UB Type inc VUC Check	228.00
E60104022	PPC Central Manifold U4 Type	228.00
E60403010	NG6 (Cetop 3) Modular Manifold, Parallel Connection, Side Ports	95.00
E60403011	NG6 (Cetop 3) Modular Manifold, Series Connection, Side Ports	97.00
E60403020	Manifold for Return Line Filter	83.00
E60403030	Manifold 2 Port to Suit 3/4" UNF Cartridge	154.00
E60403031	Manifold 3 Port to Suit 3/4" UNF Cartridge	80.00
E60403001	PPC Manifold Cetop 3 Rear Ports	93.00
E60433000	Body Cetop 3 with Dual 3/4 UN Cavity 8-2	152.00
E60403002	90 Degree Rotation Manifold, 49mm	120.00
E60403004	Modular Spacer Block 28mm	32.00
E60403006	Adaptor PPC to SD01	83.00
E60403008M	Adaptor Manifold PPC to PPM	83.00
E60403005DF	90 Degree Rotation Manifold, Double Sided 79mm	170.00
M60403004	Adaptor Spacer Manifold for PPM 23mm	63.00
M60403005	Manifold PPM 90 Degree Rotation	117.00
M60403010	NG3 Parallel Manifold 1/4" BSPP Lateral Ports	117.00

Base Power Units Include

- 3 Phase Electric Motor (240V Single Phase upon request)
- Powder Coated Blue Tank
- Laser Cut, White Powder Coated Lid
- Level Gauge & Filler Breather
- Bell Housing & Coupling
- High Quality Gear Pump
- 10 Micron Tank Top Filter with Under Tank Porting (Easy Access Element)
- Tank Top Relief Block with BSPP P, T and Gauge Ports
- Relief Set to 140 Bar
- (Easy changeable to Cetop Single or Multi- Station Manifold)
- All Under Tank Hose & Fittings



Options

- Single & Multi-Station Cetop Manifolds
- Cetop Valves and Modular Valves
- Gauges
- Suction Strainers

Important

All Flows, Pressures and Power Requirements are Theoretical Only.

Based on $Kw \times 600 = Pressure \times Flow$

Electric Motor Speed based on 1450 RPM

Use as guide only

Standard Power Units with Gear Pumps

Ordering Code

PU	-	30	-	3	-	2.2Kw	-	9 LPM	-	140
Standard Power Unit		Nom Tank Size		Single or 3 Phase		Electric Motor & Frame Size		Approx Max Flow @ 140 Bar		Pressure Setting
		12 Litre				0.37 Kw (71FR)		1.6 LPM		
		16 Litre				.55 Kw (80FR)		2.3 LPM		
		30 Litre				.75 Kw (80 FR)		3 LPM		
		55 Litre				1.1 Kw (90 FR)		4 LPM		
		75 Litre				1.5 Kw (90FR)		6 LPM		
		100 Litre				2.2 Kw (100FR)		9 LPM		
		180 Litre				3 Kw (100 FR)		11 LPM		
				1 PH (240V) or 3 PH (415V)		4 Kw (112 FR)		16 LPM		Std = 140 bar
						5.5 Kw (132FR)		24 LPM		
						7.5 Kw (132FR)		29 LPM		
						11 Kw (160 FR)		43 LPM		
						15 Kw (160 FR)		64 LPM		
						18.5 Kw (180 FR)		79 LPM		
						22 K2 (180 FR)		92 LPM		



3 Phase 415V (240V Single Phase Available)

12 Litre Industrial Power Units

Part Number	Tank Size	Phase	Kw	Frame	Flow @ 1450 RPM	Relief Setting	List
PU12-3-.37KW-1.6-140	12 Litre Nom	3 PH	0.37Kw	71	1.6 LPM	140 Bar (2000PSI)	2422.00

16 Litre Industrial Power Units

Part Number	Tank Size	Phase	Kw	Frame	Flow @ 1450 RPM	Relief Setting	List
PU16-3-.55KW2.3-140	16 Litre Nom	3 PH	.55 Kw	80	2.3 LPM	140 Bar (2000 PSI)	2556.00
PU16-3-.75KW-3-140			.75 Kw	80	3 LPM		2744.00
PU16-3-1.1KW-4-140			1.1 Kw	90	4 LPM		2903.00
PU16-3-1.5KW-6-140			1.5 Kw	90	6 LPM		2992.00
PU16-3-2.2KW-9-140			2.2 Kw	100	9 LPM		3262.00
PU16-3-3KW-11-140			3 Kw	100	11 LPM		3513.00
PU16-3-4KW-16-140			4 Kw	112	16 LPM		3827.00

30 Litre Industrial Power Units

Part Number	Tank Size	Phase	Kw	Frame	Flow @ 1450 RPM	Relief Setting	List
PU30-3-.75KW-3-140	30 Litre Nom	3 PH	.75 Kw	80	3 LPM	140 Bar (2000 PSI)	3075.00
PU30-3-1.5KW-6-140			1.5 Kw	90	6 LPM		3277.00
PU30-3-2.2KW-9-140			2.2 Kw	100	9 LPM		3687.00
PU30-3-3KW-11-140			3 Kw	100	11 LPM		3798.00
PU30-3-4KW-16-140			4 Kw	112	16 LPM		4110.00

55 Litre Industrial Power Units

Part Number	Tank Size	Phase	Kw	Frame	Flow @ 1450 RPM	Relief Setting	List
PU55-3-3KW-11-140	55 Litre Nom	3 PH	3 Kw	100	11 LPM	140 Bar (2000 PSI)	4215.00
PU55-3-4KW-16-140			4 Kw	112	16 LPM		4529.00
PU55-3-5.5KW-24-140			5.5 Kw	132	24 LPM		5080.00
PU55-3-7.5KW-29-140			7.5Kw	132	29 LPM		5464.00

75 Litre Industrial Power Units

Part Number	Tank Size	Phase	Kw	Frame	Flow @ 1450 RPM	Relief Setting	List
PU75-3-3KW-11-140	75 Litre Nom	3 PH	3 Kw	100	11 LPM	140 Bar (2000 PSI)	4461.00
PU75-3-4KW-16-140			4 Kw	112	16 LPM		4776.00
PU75-3-5.5KW-24-140			5.5 Kw	132	24 LPM		5327.00
PU75-3-7.5KW-29-140			7.5 Kw	132	29 LPM		5706.00

Different Pumps, Flows and Pressure Settings Available



3 Phase 415V (240V Single Phase Available)

100 Litre Industrial Power Units

Part Number	Tank Size	Phase	Kw	Frame	Flow @ 1450 RPM	Relief Setting	List
PU100-3-5.5KW-24-140	100 Litre Nom	3 PH	5.5 Kw	132	24 LPM	140 Bar	5619.00
PU100-3-5.5KW-16-210			5.5 Kw	132	16 LPM	210 Bar	5619.00
PU100-3-7.5KW-29-140			7.5 Kw	132	29 LPM	140 Bar	5988.00
PU100-3-11KW-44-140			11 Kw	160	44 LPM	140 Bar	7615.00
PU100-3-15KW-44-200			15 Kw	160	65 LPM	140 Bar	8058.00
PU100-3-18.5KW-51-200			18.5 Kw	180	80 LPM	140 Bar	8996.00
PU100-3-22KW-66-200			22 Kw	180	92 LPM	140 Bar	9366.00

180 Litre Industrial Power Units

Part Number	Tank Size	Phase	Kw	Frame	Flow @ 1450 RPM	Relief Setting	List
PU180-3-5.5KW-24-140	180 Litre Nom	3 PH	5.5Kw	132	24 LPM	140 Bar (2000 PSI)	6305.00
PU180-3-7.5KW-29-140			7.5Kw	132	29 LPM		6685.00
PU180-3-11KW-43-140			11Kw	160	43 LPM		8164.00
PU180-3-15KW-64-140			15Kw	160	64 LPM		8640.00
PU180-3-18.5KW-79-140			18.5Kw	180	79 LPM		9686.00
PU180-3-22KW-92-140			22	180	92 LPM		10058.00

Different Pumps, Flows and Pressure Settings Available



Industrial Power Unit Options

Single Phase Electric Motors

Part Number	Description	Add to List
SELG71-.37KW	.37Kw 240V 4 Pole B35 Flange	POA
SELG80-.55KW	.55Kw 240V 4 Pole B35 Flange	POA
SELG80-.75KW	.75Kw 240V 4 Pole B35 Flange	POA
SELG90-1.1KW	1.1Kw 240V 4 Pole B35 Flange	POA
SELG90-1.5KW	1.5Kw 240V 4 Pole B35 Flange	POA
SELG100-2.2KW	2.2Kw 240V 4 Pole B35 Flange	POA
SELG100-3KW	3 Kw 240V 4 Pole B35 Flange	POA
SELG112-4KW	4 Kw 240V 4 Pole B35 Flange	POA

Cetop Valves & Manifolds

Part Number	Description	Add to List
Cetop 3 when replacing THM3RBAC Relief Block		Plus Valves
THMC3P1AC	Cetop 3 Single Manifold inc Relief Cav	NC
THMC3P2AC	Cetop 3 2 Bank Manifold inc Relief Cav	51.00
THMC3P3AC	Cetop 3 3 Bank Manifold inc Relief Cav	110.00
THMC3P4AC	Cetop 3 4 Bank Manifold inc Relief Cav	170.00
THMC3P5AC	Cetop 3 5 Bank Manifold inc Relief Cav	229.00
THMC3P6AC	Cetop 3 6 Bank Manifold inc Relief Cav	289.00
Cetop 3 Valves (NG6)		
4WE6*	Cetop 3 2 Postion Valve	173.00
4WE6*	Cetop 3 3 Postion Valve	253.00
Cetop 5 when replacing THM5RBAC Relief Block		Plus Valves
THMC5P1AC	Cetop 5 Single Manifold inc Relief Cav	25.00
THMC5P2AC	Cetop 5 2 Bank Manifold inc Relief Cav	136.00
THMC5P3AC	Cetop 5 3 Bank Manifold inc Relief Cav	255.00
THMC5P4AC	Cetop 5 4 Bank Manifold inc Relief Cav	374.00
THMC5P5AC	Cetop 5 5 Bank Manifold inc Relief Cav	525.00
THMC5P6AC	Cetop 5 6 Bank Manifold inc Relief Cav	618.00
Cetop 5 Valves (NG10)		
4WE10*	Cetop 5 2 Postion Valve	280.00
4WE10*	Cetop 5 3 Postion Valve	387.00





INTRODUCTION

1. These terms govern the supply of goods and services by TIMALCO to you, unless other terms are agreed in writing between you and TIMALCO.
2. In these terms:
 - a. "TIMALCO" means Timalco Hydraulics Pty Ltd. A.B.N. 37 097 977 645;
 - b. "you" means the company or person receiving goods or services from TIMALCO;
 - c. "goods" means products manufactured by or on behalf of TIMALCO;
 - d. "services" means product evaluation and analysis, hydraulic systems maintenance and repair and other services that TIMALCO may supply to you from time to time;
 - e. "agency lines" means products sold by TIMALCO but not manufactured by TIMALCO.

ORDERING

3. Quotations shall be in writing and on the TIMALCO's official quotation form. TIMALCO will not recognise any other form of quotation.
4. If TIMALCO does not accept your order, it will notify you.
5. An order is binding, i.e. TIMALCO must supply and you must buy, when the earlier of the following occurs:
 - a. TIMALCO commencing work or ordering material to make the goods for the order;
 - b. TIMALCO dispatching goods or agency lines ordered or provides a service; or
 - c. 7 days has elapsed since you placed the order.
6. TIMALCO will invoice you at the current or most recent list price of goods ordered plus Goods and Services Tax (GST) and at the price specified by TIMALCO from time to time for the provision of services plus "GST", unless otherwise agreed by TIMALCO.

DELIVERY, RISK AND TITLE

7. TIMALCO will arrange delivery of goods to you F.O.T (Free on Transport), unless otherwise agreed by TIMALCO.
8. If TIMALCO agrees that you arrange delivery of goods you must pay the cost of delivery (plus GST) and comply with any special conditions reasonably imposed by TIMALCO.
9. TIMALCO is not in breach of these terms if delivery is delayed by a cause outside TIMALCO's control (including but not limited to unavailability of goods).
10. Risk in goods passes to you on delivery of the goods to you, unless you arrange delivery. If you arrange delivery risk passes to you when goods leave TIMALCO's branches or premises in the manner agreed.
11. Title in goods passes to you on payment in full for goods plus "GST". Until full payment, you hold goods as a bailee for TIMALCO. You owe fiduciary obligations to TIMALCO in respect of goods until full payment is received. At any time before then, TIMALCO may enter your premises and take possession of goods. At TIMALCO's request, you must treat goods for which full payment has not been received by TIMALCO as trust property. You must pay to TIMALCO the proceeds of sale of trust property, and hold those proceeds on trust for TIMALCO until paid to it.

WARRANTY & RETURNS

12. TIMALCO warrants that goods will be free from manufacturing defects or defects in materials and that services will be provided with due care and skill. This express warranty is subject to the following conditions:
 - a. TIMALCO will accept returns of defective goods under the warranty if:
 - i. you follow the TIMALCO returns procedure (in clause 13); and
 - ii. not more than 30 days has passed since the goods were delivered to you;
 - b. you use the goods in accordance with the manufacturer's product specifications, installation guide and instructions in TIMALCO's or the manufacturer's goods and service catalogues;

- c. you must not modify goods without TIMALCO's prior written approval;
- d. TIMALCO does not warrant the performance of agency lines; and
- e. If products other than goods comprise part of an assembly serviced or supplied by TIMALCO, TIMALCO does not warrant the performance of those products

13. The TIMALCO's returns procedure is that you must:
 - a. contact TIMALCO and give TIMALCO full details of any defect (If the defect is a delivery defect you must contact TIMALCO within 7 days of delivery);
 - b. return the goods to TIMALCO when approval for the return is given; and
 - c. pay for the freight charge of returning the goods to TIMALCO
14. TIMALCO reserves the right to refuse to accept goods for return following inspection by TIMALCO of the goods returned in accordance with the returns procedure if in TIMALCO's reasonable opinion, the goods are not defective.

PAYMENT

15. Unless other payment terms have been specified in writing, you must pay TIMALCO's invoices plus "GST" within 30 days after the end of the month in which the invoice has been issued. All payments are strictly net.
16. TIMALCO may charge default interest on amounts owing, but not paid. The interest rate shall be that charged by TIMALCO's bankers for overdrafts under \$100,000.

LIABILITY

17. TIMALCO does not exclude, restrict or modify any condition, warranty or right relating to goods, services or agency lines which under the Trade Practices Act or other relevant legislation may not be excluded, restricted or modified ("non-excludable condition") but TIMALCO does, apart from the warranty set out in clause 12, exclude all other conditions and warranties applied by custom, the general law or statute and is not liable for any damage suffered by you arising in any way (including negligence by TIMALCO) out of the supply, delay in supplying or failure to supply goods, services or agency lines, except as set out in clause 12, 13, and 14.
18. TIMALCO's liability under any non-excludable implied condition or warranty (except a non-excludable conditional warranty implied by section 69 of the Trade Practices Act or similar legislative provision) is limited to, at TIMALCO's option:
 - a. the cost of repair of goods or agency lines;
 - b. the cost of replacement of goods or agency lines;
 - c. resupplying the services; or
 - d. the cost of supply of the services.
19. The environmental control at your site is your responsibility and you agree to indemnify TIMALCO in respect of any liability (including but not limited to damages and legal costs payable by TIMALCO) arising from contraventions at your site of laws relating to environmental safety and pollution.

DEFAULT BY YOU

20. You are in default if:
 - a. you fail to pay when due any amount owing to TIMALCO;
 - b. an application is made to the court, an order is made, or a resolution is passed or proposed in a meeting for you to enter into an arrangement, composition or compromise with your creditors;
 - c. you cease to be able to pay your debts as they become due;
 - d. you cease to carry on business; or
 - e. any step is taken to appoint a receiver, a receiver manager, a trustee in bankruptcy, a liquidator, a provisional liquidator, an administrator or other person of the whole or any part of your assets or business.
21. If you are in default, TIMALCO may do any or all of the following (in addition to any other rights TIMALCO may have):
 - a. require you to pay immediately all amounts invoiced but unpaid or to pay in advance of or on delivery;
 - b. suspend or cease supplying goods to you;
 - c. request that you treat a trust property goods for which full payment has not been received by TIMALCO; or
 - d. enter your premises and repossess goods for which payment has not been made.

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24. You acknowledge by this agreement that copyright exists in TIMALCO's goods and services catalogues and other such marked material and that reproduction of any part of this material must be authorised in writing by TIMALCO, otherwise you may infringe pm.gs10/00

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