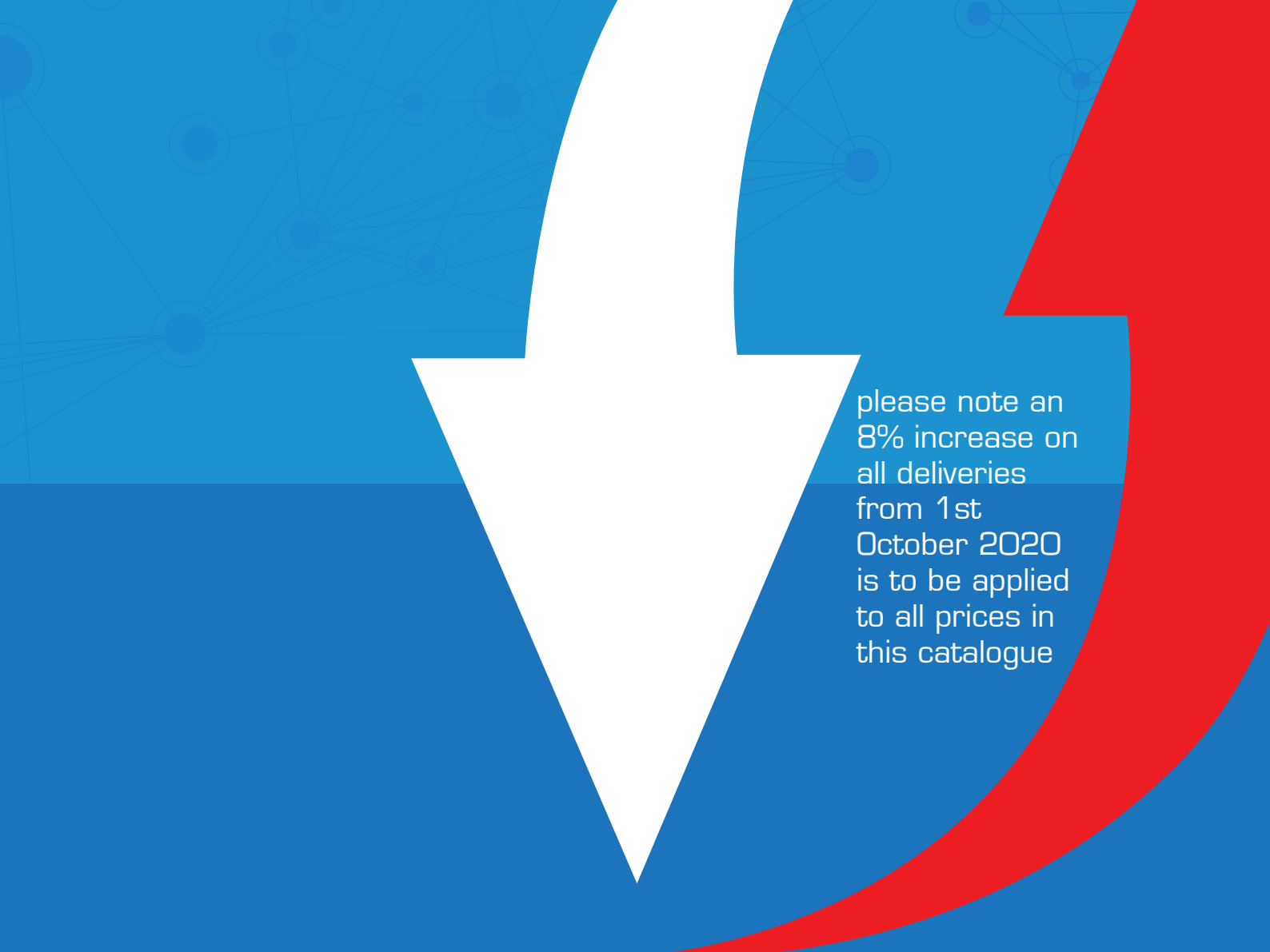




please note an
8% increase on
all deliveries
from 1st
October 2020
is to be applied
to all prices in
this catalogue

Oilpath 2020 Product Catalogue and Price List

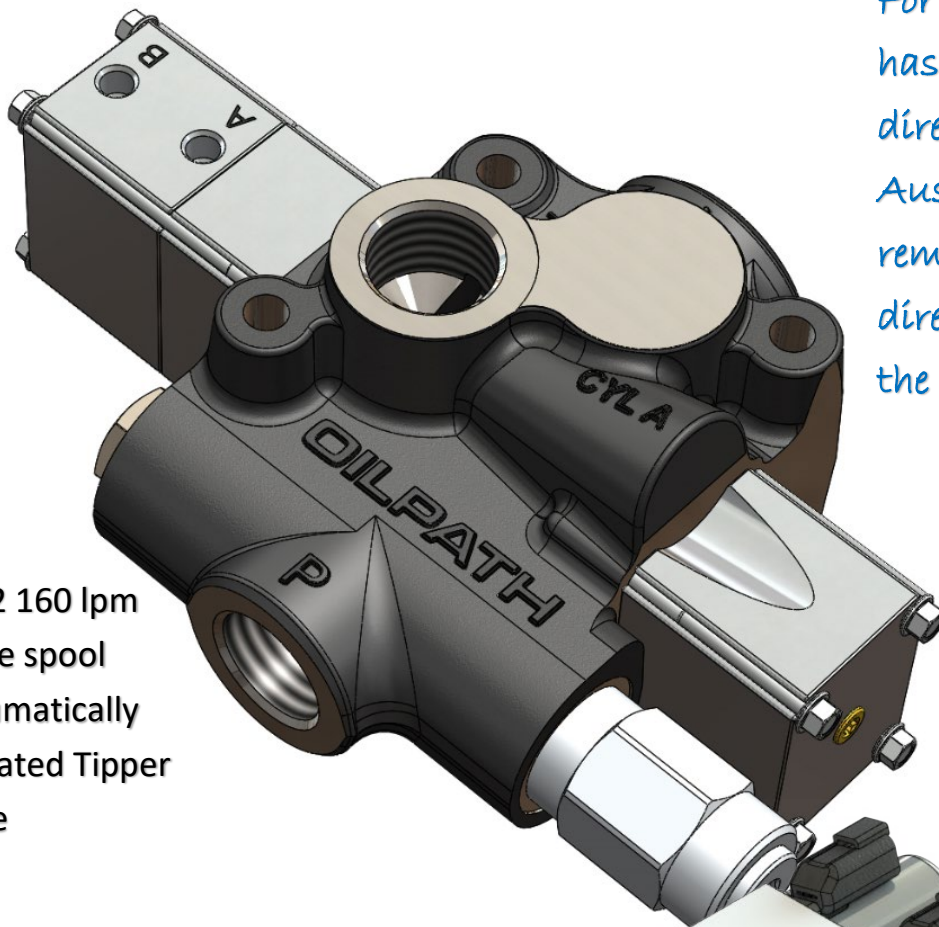




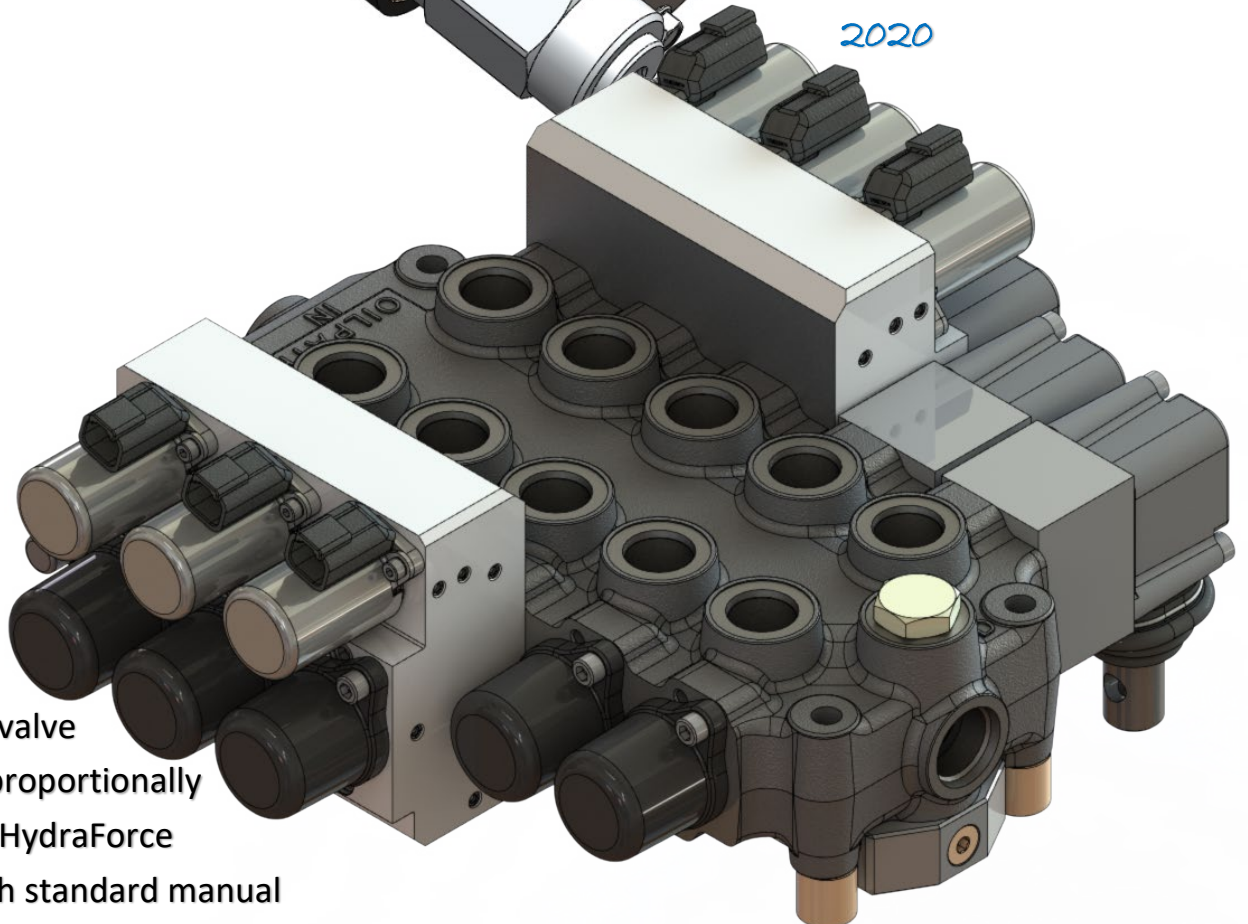
For almost 50 years Oilpath has been manufacturing directional control valves in Australia and to this day remains the sole producer of directional control valves in the country.

The OP range remains the benchmark for quality and reliability with new solenoid control valves hitting the market in 2020

OP22 160 lpm
Single spool
pneumatically
operated Tipper
Valve



OP20 5 spool valve
with 3 being proportionally
controlled by HydraForce
cartridges with standard manual
override handle levers





Oilpath Hydraulics About Us

Oilpath has been manufacturing hydraulic control valves in Australia for over 40 years, steadily building our product range to compete with the multi-national importers present in the market, and proudly remain the sole manufacturers of directional control valves in Australia, including our propriety range of OP monoblock control valves, tipping truck valves and safety systems. Today Oilpath is a specialist designer and manufacturer of hydraulic valves and manifolds for the agricultural, mobile, mining, industrial, defence and shipbuilding industries.

Oilpath is proud to be the preferred Australian partner for HydraForce, and the largest importer and stockist of their comprehensive range of high-performance cartridge valves and electronic control systems. Oilpath utilise the HydraForce product as the primary cartridge in our standard and custom manifold designs. Oilpath's experienced engineers are available to discuss your specific requirements and will optimise the most efficient, economical and compact solution.

Oilpath has been assessed and approved by QAS International to the following management systems, standards and guidelines:

Integrated Management System PAS99:2012
certificate number AUP1242PAS

ISO9001:2015

ISO14001:2015

ISO45001:2018

AS/NZS 4801:2001

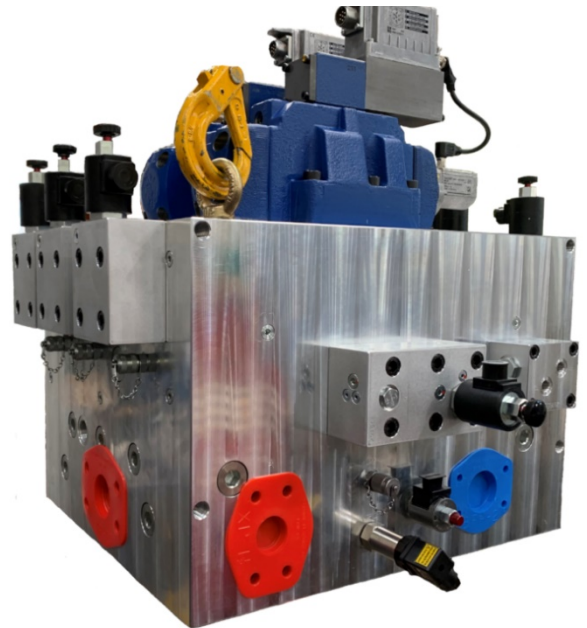


ISO 9001 : 2015

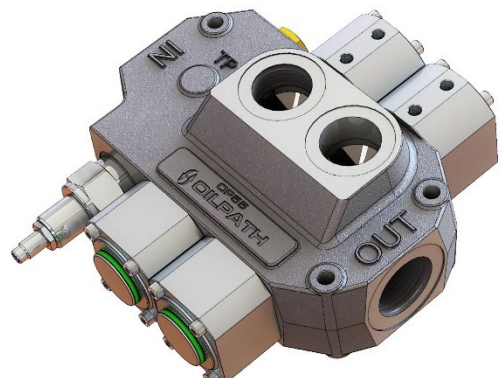
The approved administration systems apply to the following:

Oilpath Hydraulics Pty Ltd, located in Edwardstown, SA, designs, manufactures and supplies specialised hydraulic valving, manifold systems and components for all industries.

Original Approval	25 th October 2018
Current Certificate	25 th October 2019
Certificate Expiry	25 th October 2020
Certificate Number	AUP1242CA



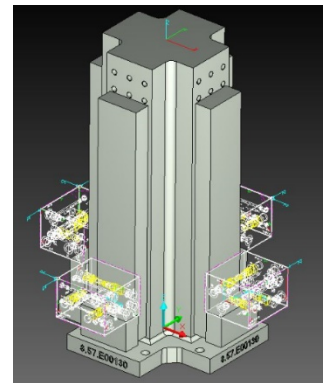
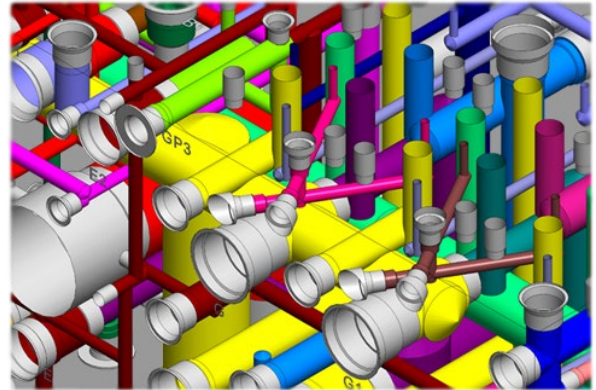
Oilpath has successfully designed and commercialised a comprehensive range of hydraulic valving products for the transport, mobile, industrial and mining markets.



Oilpath Hydraulics Design and Manufacture

Engineering is deep seeded in Oilpath's history and stems back to the 1970's when Oilpath pioneered control valve manufacture in Australia providing locally made product. Oilpath has successfully developed and introduced new customised CAD & CAM Software systems to facilitate the ultimate in efficient "design-to-market" system processes in the industry and optimise the development of the most cost-effective manifolds; thus shortening lead times for the customer and increasing Oilpath's productivity. The system includes feature recognition, feature manipulation, machine simulation and extensive valve cavity libraries.

Oilpath has dedicated staff to liaise with you or your engineers and designers to work through any issues that may arise during design or prototyping. With their background, proven track record and design resources at hand, Oilpath will work with you to bring concept or hydraulic valving project to fruition.



Early in 2019 Oilpath invested heavily in an additional four new machine tools, two of which will be dedicated to manifold production. These machine tools are state of the art, with capabilities that are ideal for accurate and efficient manifold manufacture. Facilities such as high spindle speeds, through spindle coolant, high rapid travel movements, extremely fast tool change times with preselected tooling. The machines are also equipped with the latest in programable rotating tables, robust fixtures, hydraulic vices and the latest in cutting tools, and in-process telemetry touch probes for accuracy of positioning and in-process measuring.

With a focus on quality, function and performance, at Oilpath we want to make it easy for you to make the most informed and best choice when it comes to your next hydraulic valving purchase.

Oilpath has successfully developed and introduced new customised CAD & CAM Software to optimise the development of the most cost-effective manifold design combined with the ultimate in efficient design to manufacturing system processes in the industry



Mining & Related Products

Mining as a mainstay of Australian business has long been an integral component of Oilpath. From complex custom designed and manufactured manifolds through to special hydraulic cartridge valves and special custom mining related jacking pumps. There is no industry demanding higher levels of service and reliability than mining.

Oilpath's structured manufacturing systems and highly service driven culture combines perfectly to "deliver the goods": whether it be individual valves or complex designed and manufactured Hydraulic manifolds.

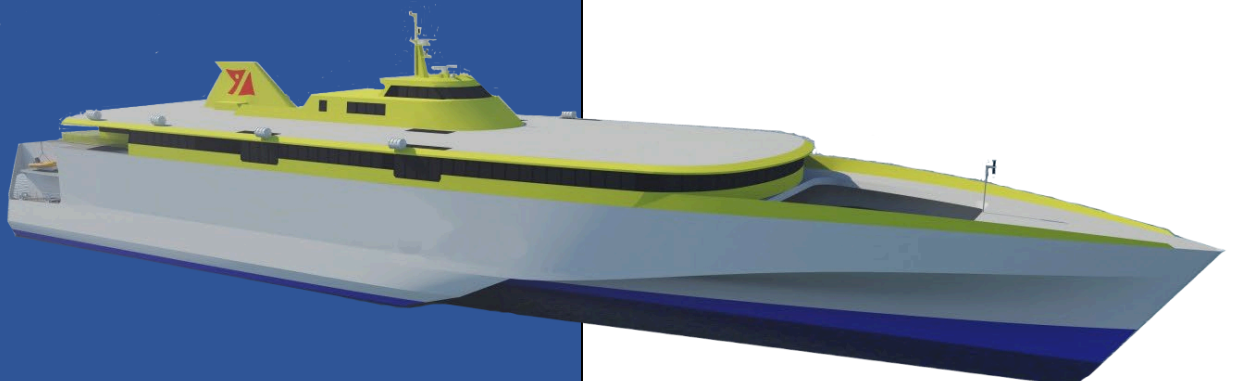


Ship Building & Industrial

Oilpath has gained valuable experience in designing and manufacturing large complex manifold solutions for the ship building and Industrial sectors, this has included extensive Factory Acceptance Testing.

Oilpath has a global partner in HydraForce Inc. HydraForce has comprehensive lines of quality cartridge valves and electronic equipment utilised in some of the worlds largest OEM's

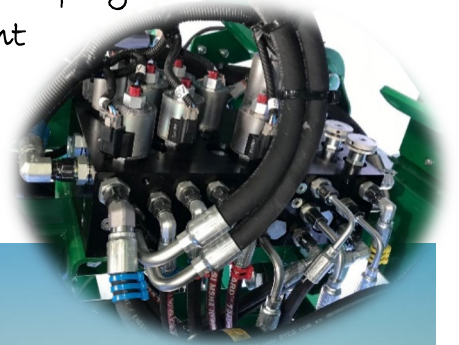
Oilpath utilise HydraForce cartridge valves and electronic control systems. Oilpath valving solutions are utilised in a wide range of ship building and industrial applications such as elevating work platforms, winches, skid loaders and in ship roll controls and other applications



Agriculture

Oilpath Hydraulic Control Valves have been the Agricultural Industry benchmark since the 1970's. The OP20 valve has been utilised on a wide range of equipment from Wool Presses to Front End Loading attachments and is now the only Australian owned and manufactured Hydraulic Control Valve in the market. Today Oilpath is a market leader in the design and manufacturing of Hydraulic Control Manifolds for the state of art agricultural equipment

Oilpath manifolds are utilised on a wide range of machinery such as Air Seeders, Sugar Cane Harvesters, tillage and spray equipment



Transport, Tipper Truck & Mobile

The Diversity of Oilpath's manufacturing capabilities combined with industry specific experience provides a powerful and competitive resource for Transport and Mobile Industry manufacturers. Long association with industry icons is testimony to Oilpath's ability to deliver to the demanding criteria of major and complex Hydraulic valving Projects. Whether your projects are simple or complex, please ask one of our specialist sales people to call in and discuss your current and upcoming requirements

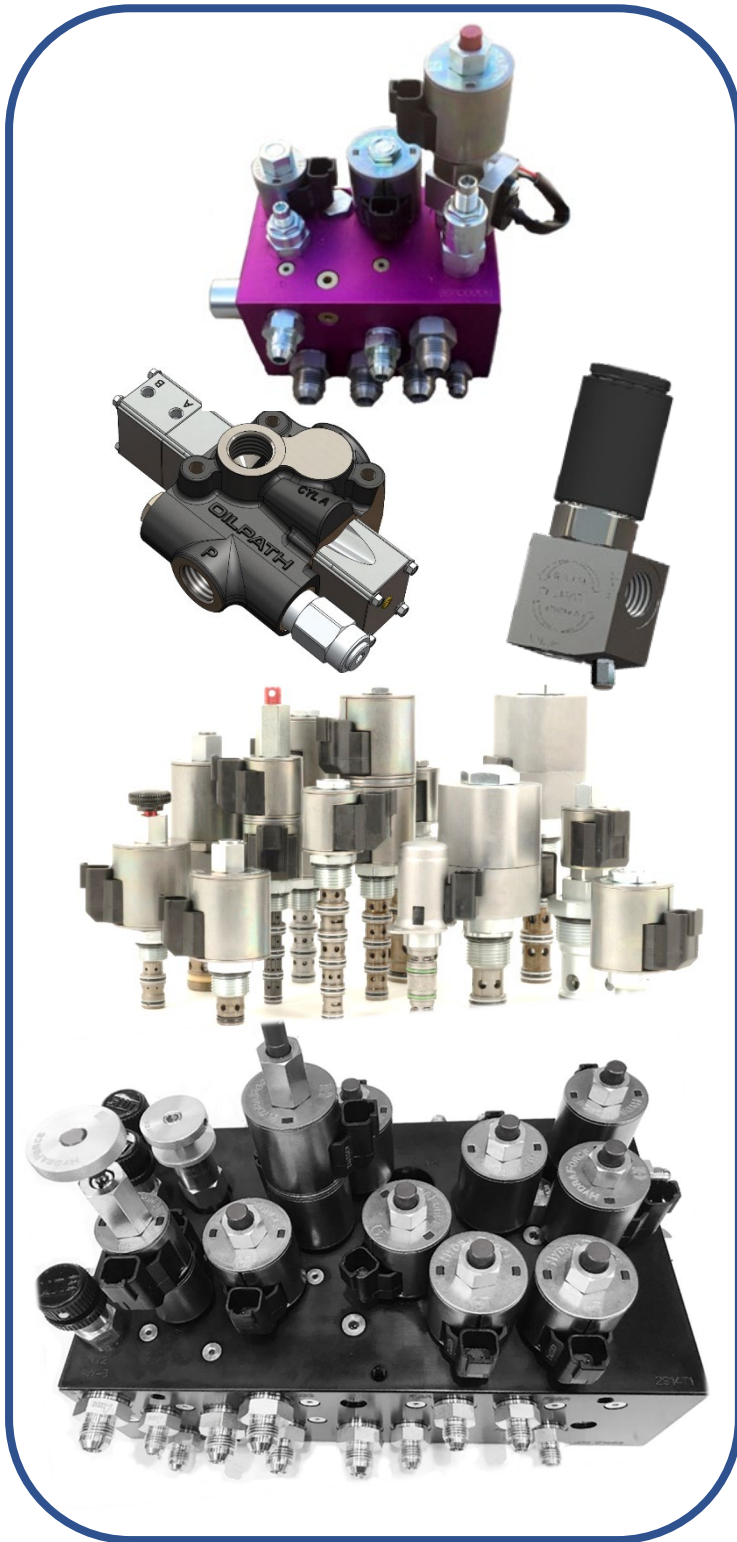


2020 Price List

www.oilpathhydraulics.com.au



THE AUSTRALIAN DESIGNER & MANUFACTURER OF DIRECTIONAL CONTROL VALVES & CUSTOM MANIFOLDS



2020 PRICE LIST



Directional Control Valves,
Design & Manufacture of
Custom and Standard Hydraulic
Manifolds & Valve Packages



Prime Australian Partners for
HydraForce Cartridge Valves
and Control Equipment



Counterbalance Cartridges and
Parts-in Body Counterbalance
Solutions



Mazak Machine Tools

Phone: 08 82774933 sales@oilpathhydraulics.com.au

Various Oilpath products are protected by Australian Registered Designs and International Patents

OILPATH HYDRAULICS PTY LTD



sales@oilpathhydraulics.com.au
Phone 08 82774933

Page	Product	Description
11	OP11	75 Litres Per Minute Directional Control Valves New upgraded flow characteristics
16	OP11	OP10 / 11 Pricing Matrix
18	OP20	120 Litres Per Minute Directional Control Valves New upgraded flow characteristics
21	OP20	OP20 Pricing Matrix
26	OP22	160 lpm Single Acting Pneumatically Controlled Tipping valves
30	OP55	250 lpm Single Acting Pneumatically Controlled Tipping valve
32	OP-APV-16-22	Pneumatically Controlled Hoist Blocking Valve
34	Electric Hoist Check	Electric Hoist Check
35	OP27	160 lpm 3 Port Diverter Valve
38	OP51FC	114 lpm pressure Compensated Flow Control Valve
40	OP80	118 lpm 6 port Diverter Valve
43	OP80S	40 & 60 lpm Solenoid Operated 6 Port Diverter Valves
45	OP101	55 lpm Pilot Operated Check Valves
46	OP110	Through Ported Relief Valves
48	OP111	Cetop 3 & 5 Sub Plates
49	OP112 & OP114	Cetop 3 & 5 Bar Manifolds
50	OP115	Cross Line Relief Valves
52	OP129	100 lpm Cross line relief with anti-cavitation checks
53	OP156	100 lpm Double Sequence Valve
54	OP157	3-way pressure compensated flow regulator

55	OP128	120 lpm Hi-Low Pump System Manifold
56	OP137	Quick Hitch Valve
57	OP140	Quick Hitch & Tilt Valve
58	Manifolds	Manifold Capability
60	Valvole	Counterbalance Product
64	Source	Motorised Flow Control Cartridges
66	OP700	60 lpm Motorised Flow Control with Pressure Compensation
67	OP701	120 lpm Motorised Flow Control with Pressure Compensation
68	OP720	60 lpm Motorised Flow Control with Pressure Compensation (by-pass style)
69	OP721	120 lpm Motorised Flow Control with Pressure Compensation (by-pass style)
70	OP722	60 lpm Motorised Flow Control with Pressure Compensation and unloader relief function
71	OP723	120 lpm Motorised Flow Control with Pressure Compensation and unloader relief function
72	OP724	120 lpm Motorised Flow Control with Priority and relief function
74	HydraForce	HydraForce Short Form Catalogue (technical details)
100	HydraForce List Prices	This is not an exhaustive list of available products, other products available upon request

Disclaimer

“Oilpath is not responsible for any errors or omissions, or for the results obtained from the use of the information in this price list. All information in this document is provided “as is”, with no guarantee of completeness, accuracy, timeliness or of the results obtained from the use of this information...”

OP11

Monoblock Directional Control Valve

OILPATH
VALVE & MANIFOLD MANUFACTURING

New Development OP11 Upgraded to 75 l/min with 3/4"UNO or 1/2"BSPP ports

OP11 Monoblock Valve

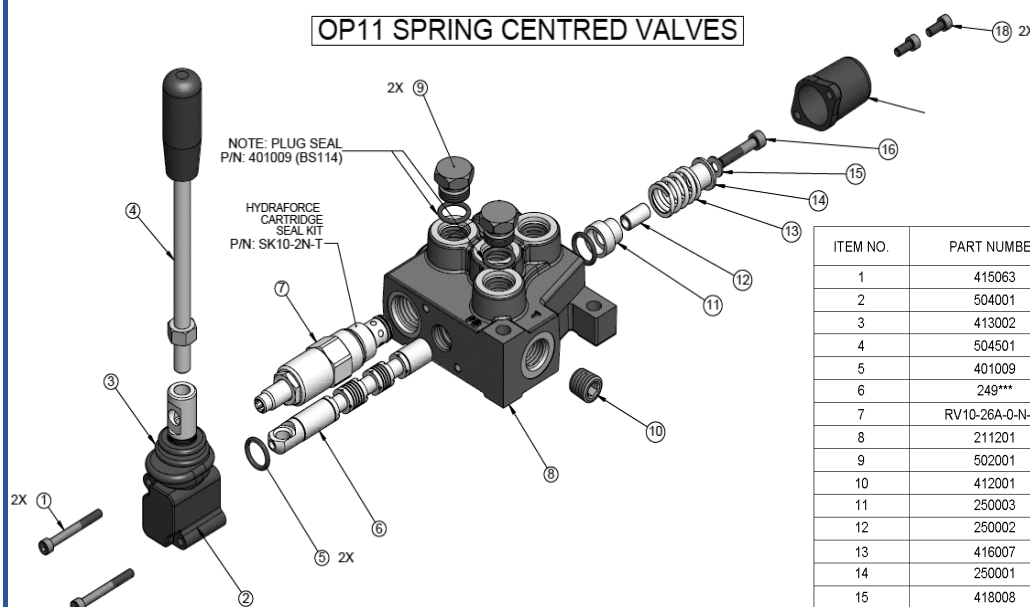
Part No.	No of Spools	Nom Flow l/min	Max Pressure P,A,B	Max Pressure T	Ports (BSPP)	*List Prices From
0111*	1	75	315 bar	25bar	1/2" P,A&B T- 3/4"	\$305
0112*	2					\$468
0113*	3	60				\$622
0104*	4	55				\$767

***prices as per listings on page 15**

The OP11 Directional Valve provides a compact range of manually operated directional valves for medium flow applications. Like all Oilpath DCV's the handle assembly is fully enclosed to reduce the likelihood of corrosion affecting the handle mechanism. The handle bracket and spring end cover are made from glass filled nylon that has better impact and wear properties than aluminium. Each valve is supplied with a 3/8" bspt plug that can be easily inserted into a pre-tapped gallery to create Power Beyond (H.P.C.) and closed centre facility.

OPTIONS

- 2 and 3 position detent & spring centred detent
- Pneumatic spool actuation
- Closed circuit & power beyond
- Electric limit switch

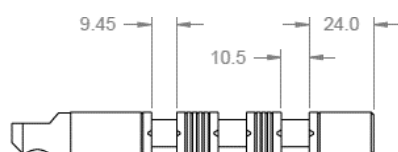
Note 4 spool valves remain as OP10 designation*OP11 SPRING CENTRED VALVES**

ITEM NO.	PART NUMBER	DESCRIPTION	SPRG CNTRD/QTY
1	415063	M5 x 45 SHCS	2
2	504001	OP10 LEVER BOX ASSEMBLY	1
3	413002	OP10 Lever Box Boot	1
4	504501	OP10 LEVER STEM ASSEMBLY	1
5	401009	N7 114 NITRILE O RING	2
6	249***	OP10 * Spool	1
7	RV10-26A-0-N-30	HYDRAFORCE CARTRIDGE	1
8	211201	OP11 01 3/4" UNF FIN. MACHINED	1
9	502001	3/4" UNF PLUG ASSEMBLY	2
10	412001	3/8" BSPT PRESSURE PLUG	1
11	250003	OP10 Long Spring Cup	1
12	250002	OP10 Spring Centering Bush	1
13	416007	OP S/C SPRING STD	1
14	250001	OP10 Short Spring Cup	1
15	418008	1/4" x 1/2" ZP Washer	1
16	415004	M6 x 30 SHCS	1
17	340001	OP10 Spring Cap	1
18	415005	M5 x 12 SHCS	2

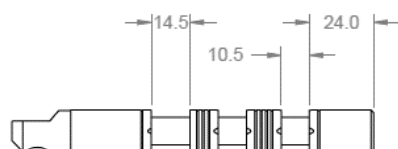
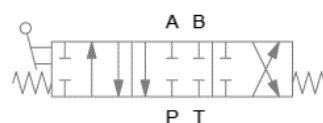
OP11

Monoblock Directional Control Valve

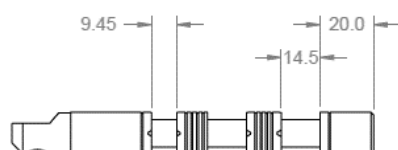
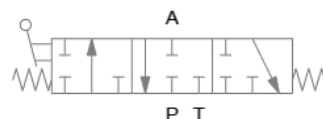

OILPATH
 VALVE & MANIFOLD MANUFACTURING

New Development OP11 Upgraded to 75 l/min with 3/4"UNO or 1/2"BSPP ports
**D Spool**

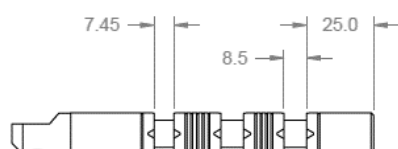
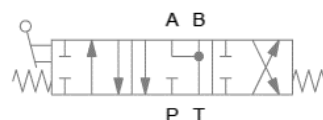
PART NO: 249002

**S Spool**

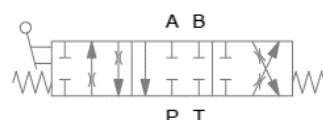
PART NO: 249003

**M Spool**

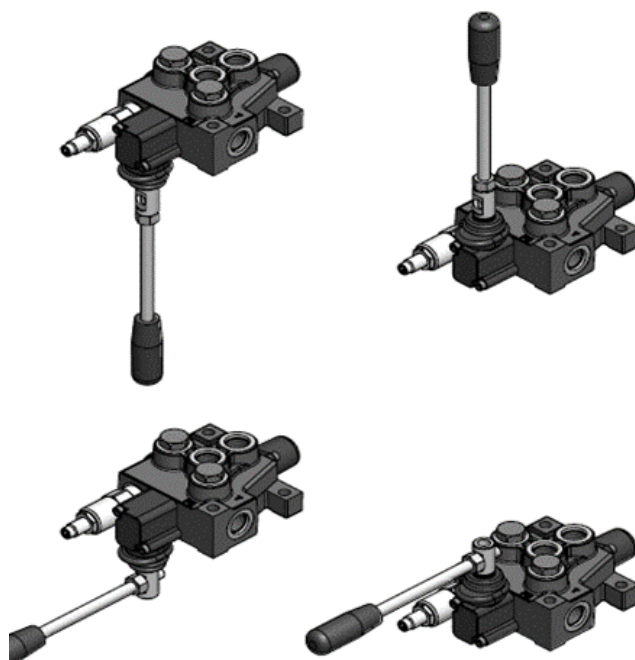
PART NO: 249004

**Q Spool**

PART NO: 249017



**NOTE: ALTERNATE HANDLE
ORIENTATION FOR OP11 VALVE**

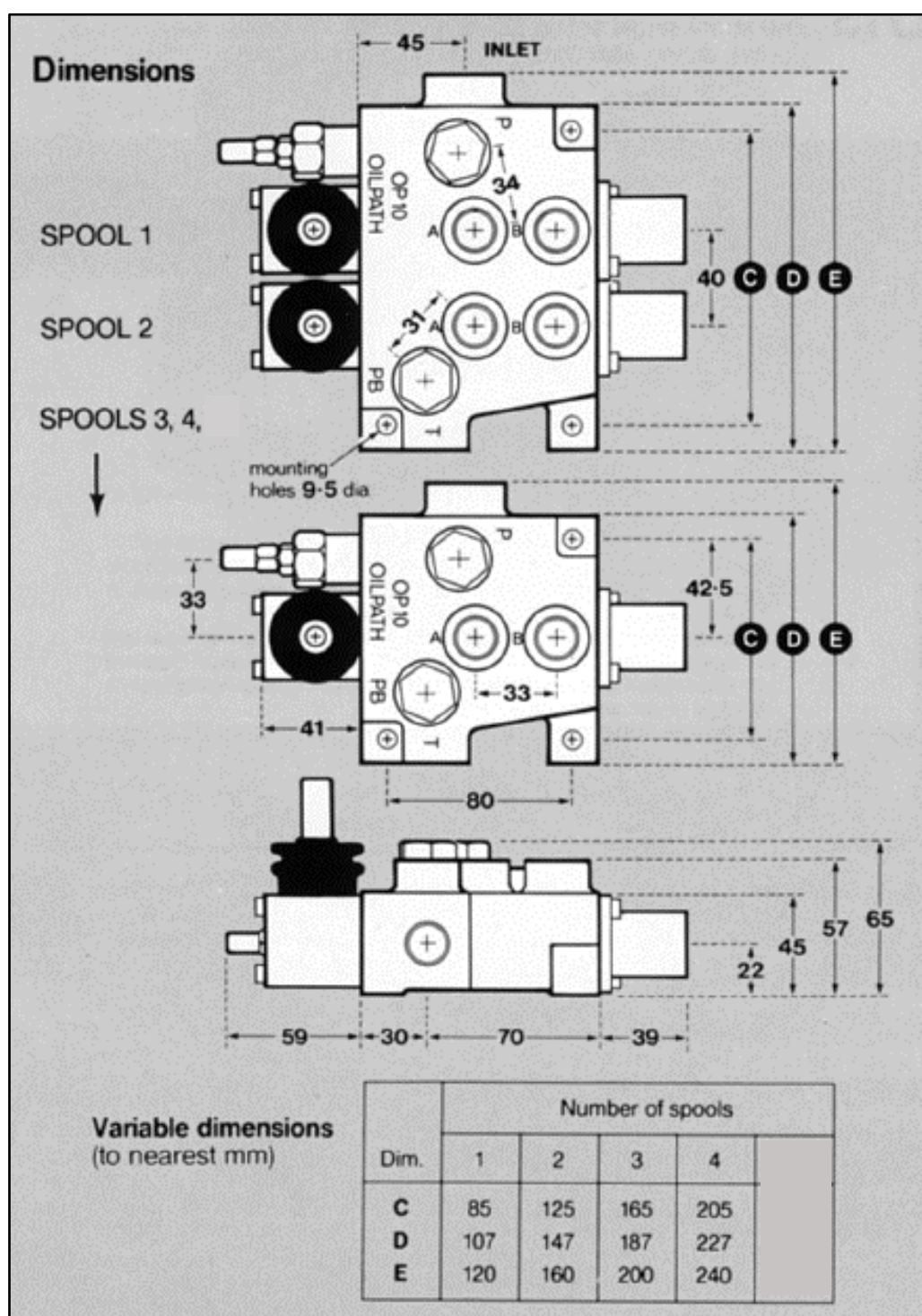


OP11

Monoblock Directional Control Valve



New Development OP11 Upgraded to 75 l/min with 3/4"UNO or 1/2"BSPP ports



OP11

Monoblock Directional Control Valve



New Development OP11 Upgraded to 75 l/min with 3/4"UNO or 1/2"BSPP ports

ORDERING INFORMATION

OP11 (OP10) valves can be ordered by quoting a number/letter group sequence as follows:
Valve series; Spool configuration; Relief setting; Options required

Valve Model	Spool Types		Relief Setting	Options	
OP11	D	Double Acting	Specify Relief Valve Pressure Setting 100 - 5000 psi HydraForce Relief Valves on OP11 No Setting required with NR option	PB	High pressure carry over. Plug supplied in package as standard
	Q	Double Acting low flow version		CC	Closed Centre
	S	Single Acting		NR	Relief valve not required
	M	Motor Spool		SCDA	Spring centred dented to port A
OP10 (4 spool only)			400 - 5000 psi Oilpath Relief valves on OP10-4	SCDB	Spring centred dented to port B
				A	Air Control (OP118) supplied only with manual override
				D	Three position detent
				E	Electric limit switch followed by numeral indicating spools

OP11 D 2000 PB Single Double acting spool 2000psi relief high pressure carry over
 OP11 DS 2500 D2 Double 1st spool double acting spring centred 2nd spool single acting detented
 OP11 DDD 1500 D1A23 Triple all double acting spools 1500 psi relief detent on 1st spool pneumatically operated 2nd & 3rd spools
 OP10 DDDM 3500 SCDB23 OP10 four spool with double acting spools on 1,2,3, motor spool on 4 3500 psi relief spring centred to B on 2nd & 3rd spool

New Development OP11 Upgraded to 75 l/min with $\frac{3}{8}$ "-un or $\frac{1}{2}$ " BSPP

OP10 & OP11 Directional Control Valve Pricing

Part Number	Description	List Price for Base Valve	Standard Double Acting (no options)
0111xxxx	Single Spool Valve	350	305
0112xxxx	Two Spool Valve	538	468
0113xxxx	Three Spool Valve	715	622
0104xxxx	Four Spool Valve	882	767

OP10 & OP11 Options Pricing (on new builds)

OPTIONS	Part Number	Description	List Price
D1	507020	Detent per spool, (three pos.) factory fitted # indicates pos.	41
CC	511048	OP10 Pressure Relief Blanking Plug kit, for closed centre	41
	511014	OP11 Pressure Relief Blanking Plug kit, for closed centre	50
E1	503003	Electric Limit Switch for single spool valve, factory fitted Note: Micro switch is not included in price	POA
E12	503004	Electric Limit Switch for double spool valve, factory fitted Note: Micro switch is not included in price	POA
E123	503005	Electric Limit Switch for triple spool valve, factory fitted Note: Micro switch is not included in price	POA
E1234	503006	Electric Limit Switch for four spool valve, factory fitted Note: Micro switch is not included in price	POA
	503010	Micro Switch for above kits, (one per valve) standard micro switch. This switch has a weather-proof rating to IP67	88
13A	248013	Optional micro switch sleeve for S/A spools with code E, kit only (add on spool)	21
Q		Optional D/A spool with metering for low flow DC power units	POA
SCDA	509018	Spring Centred Detent with det. acting on A port is pressurised	136
SCDB	509012	Spring Centred Detent with det. acting on B port is pressurised	136
S/O	509010	Spring offset to "B" (No centre position)	45
A1		OP118 Air Kit with handle control	246
MU		Valve prepared for Marine Environment	40

Note: 4 spool valves remain as OP10 designation with Oilpath integrated lift drop check and relief valve.

OP11 valves contain a separate lift drop check and a HydraForce Pressure Relief Valve

New Development OP11 Upgraded to 75 l/min with 3/4"UNO or 1/2"BSPP ports

OP10/11 SPARES		
		List Price
RV50-26A-0-P-50	HydraForce Relief Valve up to 5000 psi	168
RV10-26A-0-N-30	HydraForce Relief Valve up to 3000 psi	151
512011	Seal Kit Single Spool	29
512015	Seal Kit Double Spool	33
512043	Seal Kit Triple Spool	36
512017	Seal Kit Four Spool	39
511048	CC OP10 Pressure Relief Blanking Plug kit, for closed centre	45
511014	OP11 Pressure Relief Blanking Plug kit, for closed centre	57
509018	SCDA spring Centred Detent with det. acting on A port is pressurised	147
509012	SCDB Spring Centred Detent with det. acting on B port is pressurised	147
509001	Spring Centring Kit to suit all spools, without spring cap	40
507020	D1 Detent per spool, (three pos.) kit, or factory fitted # indicates pos.	44
506081	OP118 Air Kit for OP11	256
505016	Relief Valve complete cartridge including lift drop check	122
504504	Handle Lever Stainless Steel 10mm diameter	37
504503	Handle Lever complete with nut and rubber knob M8	33
504501	Handle Lever complete with nut and rubber knob	33
504027	Lever Box with shift leg & rubber boot but no handle	101
503010	Micro Switch, (one per valve) standard micro switch This switch has a weather-proof rating to IP67	97

New Development OP11 Upgraded to 75 l/min with 3/4"UNO or 1/2"BSPP ports

503009	13A Optional micro switch sleeve for S/A spools with code E, kit only	137
503006	E1234 Electric Limit Switch for four spool valve kit Note: Micro switch is not included in price	426
503005	E123 Electric Limit Switch for triple spool valve kit	329
503004	E12 Electric Limit Switch for double spool valve kit	237
503003	E1 Electric Limit Switch for single spool valve, kit or factory fitted	137
416220	Rubber Boot Bottom Clips	4
416219	Rubber Boot Top Clips	4
416009	Relief Valve Main Spring Z (not required for HydraForce Cartridges)	25
416008	Relief Valve Main Spring X (not required for HydraForce Cartridges)	25
416005	Relief Valve Main Spring Y (not required for HydraForce Cartridges)	25
413002	Rubber Boot for lever box	12
340001	Spring Cap supplied without M5 cap screws	28
249017	Q Optional D/A spool with metering for low flow DC power units	POA
249004	Motor Spool with no spring centring mechanism	122
249003	Single Acting Spool with no spring centring mechanism	122
249002	Double Acting Spool with no spring centring mechanism	122

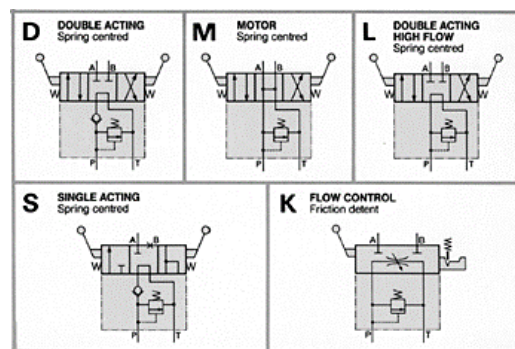
New Development OP20 Upgraded to 120 l/min with 7/8"UNO or 3/4"BSPP ports

OP20 Monoblock Valve Series

Part No.	No of Spools	Nom Flow l/min	Max Pressure P,A,B	Max Pressure T	Ports (BSPP)	*List Prices from
0201*	1	120	315 bar	25bar	¾" P,A&B T-1"	\$410
0202*	2					\$604
0203*	3	110				\$814
0204*	4	100				\$1031
0205*	5					\$1285

*Pricing as per listings on page 21

The OP20 Directional Valve Series provides an 100-120 lpm range of directional valves. The OP20 has the advantage of individual lift drop checks in the end of each valve spool, giving the valve a unique feature and useful feature in having a checks to maintain lift individually for all appropriate valve functions. (e.g. a 5 spool double acting valve has 10 lift drop checks). Closed centre and power beyond are also available with the use of plugs.



STANDARD FEATURES

- Parallel circuit
- Integral HydraForce direct acting relief valve, adjustable, factory set at 140 bar
- Optional side/top outlet ports
- ¾"BSPP, outlet & work ports 1"BSPP tank port (options include 7/8"un, & 1-1/16" un)

OPTIONS

- 2 and 3 position detent & spring centred detent
- Pneumatic spool actuation
- Electric over air
- Marine use preparation
- Restricted detent
- Solenoid operated proportional actuation (see separate sheet)
- Closed circuit & power beyond
- Micro switch actuation on spool shift
- Cable control

OP20

Monoblock Directional Control Valve

OILPATH

VALVE & MANIFOLD MANUFACTURING

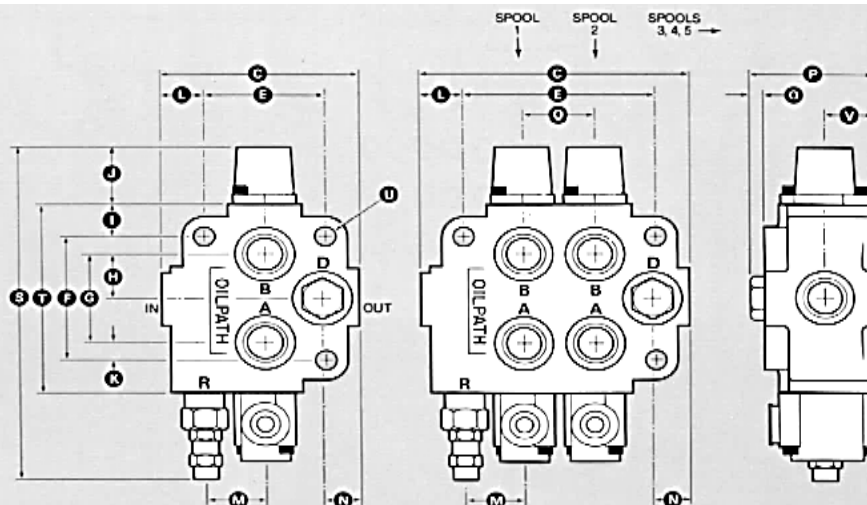
New Development OP20 Upgraded to 120 l/min with 7/8" UNO or 3/4" BSPP ports

Dimensions (to nearest mm)					
Number of spools					
Dim.	1	2	3	4	5
C	129	177	225	273	321
E	79	127	175	223	271
F			89		
G			67		
H			34		
I			27		
J			43		
K			11		
L			27		
M			39		
N			23		
O			48		
P			74		
Q			7		
S		252 (acorn nut closed)			
T		143			
U		Mounting hole 10.3 dia.			
V		33			

C, E: variable dimensions
F - V: fixed dimensions

Specifications given in this brochure are correct at time of publication. The manufacturer reserves the right to change specifications without notice.

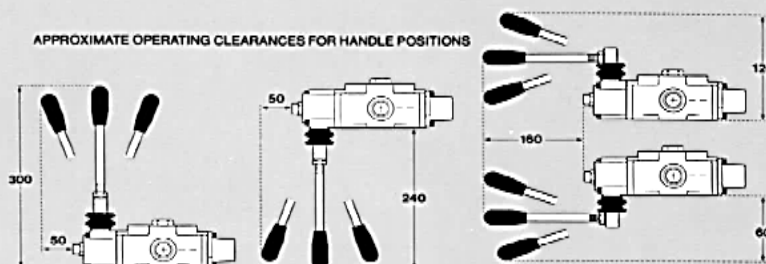
DESIGNED & MANUFACTURED IN AUSTRALIA



Notes:

1. When spool travels into body, port A becomes action. When spool is extended out from neutral, port B is action. This applies to all configurations.
2. Port D is alternate outlet. When high pressure carry over is fitted, port D is connected to tank unrestricted.

APPROXIMATE OPERATING CLEARANCES FOR HANDLE POSITIONS



25	OP20 L SPOOL	249010	19	SPRING CENTRE	416013
24	OP20 M SPOOL	249008	18	SPRING CAP	248017
23	OP20 S SPOOL	249007	17	SPRING STUD	248002
22	OP20 D SPOOL	249006	16	O RING BS112	401007
21	S/C SPRING STRONG	416036	15	M6 x 16 SHCS	415016
20	9/16" STEEL BALL	417002	14	SPRING CAP	340004
ITEM	DESCRIPTION	PART NO	13	DETENT SLEEVE	246004
			12A	M6 x 45 SHCS	415011
			12	SPRING DETENT	416004
			11	Ø1/4" STEEL BALL	417005
			10	PISTON DETENT	238005
			9	O RING WASHER	251002
			8	VALVE BODY OP20	212005
			7	O RING BS118	401012
			6	STEP WASHER	251001
			5	SPOOL EYE	248003
			4	PIVOT PIN	236008
			3	SHIFT LEG	232002
			2	RUBBER BOOT	413001
			1	LEVER BOX	230005
ITEM	DESCRIPTION	PART NO			

New Development OP20 Upgraded to 120 l/min with 7/8"UNO or 3/4"BSPP ports

Spool Type		Relief Setting	Options			
D	Double Acting		PB	High Pressure carry over	D	Three Position Detent
S	Single Acting		CC	Closed Centre	W	Air Control OP106
M	Motor Control		NR	No Relief	BF	Bottom face Outlet
K	Flow Control not pressure compensated in multi spool vales only		SCDA	Spring centred detent to "A"	SCDB	Spring centred detent to "B"
L	Double Acting Spool with no load checks		H	Handle on auxiliary control e.g. W1H1	HI FLOW	Hi Flow, increasing flow to 120 l/min with 3/4"bspp or 1-1/16" un 3/4"bspt, R2 relief
P	Pressure Compensated Flow Control in multi spool vales only		OP10 6S	Electric over air solenoid control state voltage required e.g. OP106S24V	MU	special plating and hardware for mine or marine use
Please Note: Maximum tank pressure is 250 psi on OP20 valves		Specify pressure within a range of 600-4000 psi	REST A	Restricted detent to "A" port	RESTB	Restricted detent to "B" port

OP20D 2000 PB
 OP20DDS 2500 W123H123
 OP20DSSS 1500 SCDB1
 OP20DDDDM 3500 SCDB23

Single Double acting spool 2000psi relief high pressure carry over
 Triple 1st & 2nd spool double acting 3rd spool single acting 2500 psi relief with air and handle operation on all spools
 Four spool valve 1st spool double acting spools 2nd 3rd & 4th spools single acting 1500 psi relief with spring centred detent to "B" detent on 1st spool
 Five spool with double acting spools on 1,2,3, & 4 and motor spool on 5th spool 3500 psi relief spring with 24volt solenoid unloading relief valve

New Development OP20 Upgraded to 120 l/min with 7/8"UNO or 3/4"BSPP ports

OP20 Directional Control Valve Pricing

Part Number	Description	List Price Base Valve	Standard Double Acting List Price (no options)
0201xxxx	Single Spool Valve	471	410
0202xxxx	Two Spool Valve	694	604
0203xxxx	Triple Spool Valve	936	814
0204xxxx	Four Spool Valve	1198	1042
0205xxxx	Five Spool Valve	1478	1285

OP20 Options Pricing (on new builds)

OPTIONS for OP20	Part Number	Description	List Price
P	-	Priority Flow Control Spool Factory fit only, lead time applies	363
K	-	Spool includes friction detent and can only be factory fitted	100
L	-	L Spool is D/A no load checks, used for high flows applications	39
D1	507007	Detent per spool, (3 position) factory fit, # indicates position	46
SCDB	509020	Spring Centred Detent with det. Acting on B port is pressurised	140
SCDA	509007	Spring Centred Detent with det. acting on A port is pressurised	140
PB	511003	High Pressure Carry over plug for power beyond "Hi-Cap"	26
PBH	511005	High Pressure Carry over plug 1- 1/16" UNF Hi - Flow	63
CC	511047	Closed Centre Plug (Plug A) part of kit for closed centre	25
NR	511002	Pressure Relief Plug (Plug B) part of kit for closed centre	24
LW	-	Pressure Relief Lock Wire (lead seal)	26
BF	-	Bottom Face Outlet available only as special build from factory	POA
S/O	-	Spring Offset P-B (No Centre Position)	33
MU	-	Mine Use per spool, factory build only, nylon end caps and plated spool	33
W1	506023	OP106 air shift	196
-	506028	OP106 Solenoid manifold kit (includes manifold, screws and 'O' rings. 12or 24-volt DC	100
	506027	OP106 Solenoid kit (includes manifold kit, and 2 off solenoid valves	431

New Development OP20 Upgraded to 120 l/min with 7/8"UNO or 3/4"BSPP ports

-	506025	OP106 Solenoid Air kit (incl. OP106 kit, manifold, and 2 off solenoid valves 24-volt DC	604
-	506031	same as above for 12volt DC	604
H1	-	Used only in price build for new assembly requiring dual control, (e.g.) lever and air or lever and cable.	123
HI- FLOW	-	Special D/A or S/A spools with load checks for 25 gpm for Tippers and fitted into single or double spool valves with 3/4" bspt ports & R2 Relief	46
-	-	If above spools are ordered with 1 1/16"un service ports, per spool and in a valve with R1 or R2 relief cavity.	46
FBC	-	Port relief cavity last spool - suit RV08-20A not including cartridge	78
Port Relief	RV08-20A-0-N- XX	Relief Valve	116
-	CP08-20- N	Plug VC08-2to suit above cavity (CP08-20N)	24
AS xx	SVRV10- 26X	Relief and solenoid unloading adaptor, nominate voltage and pressure.	335

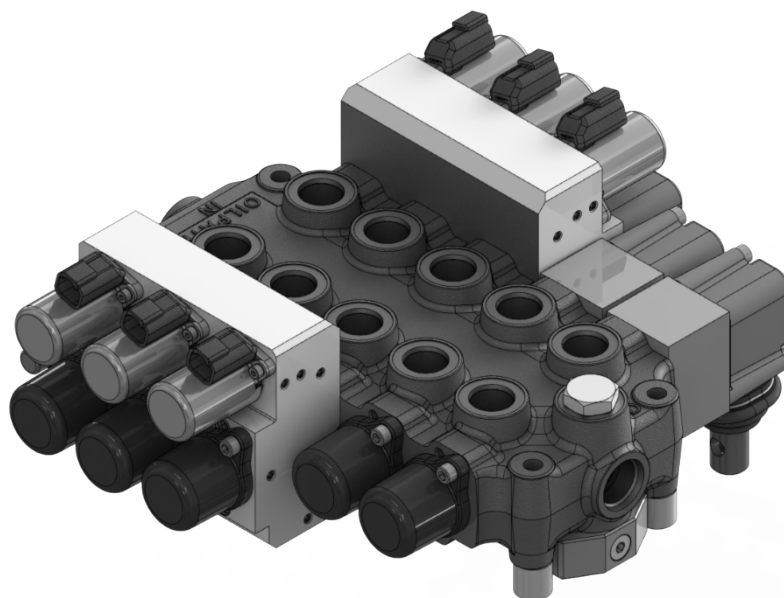
OP20 Spare Parts Pricing

Part Number	DESCRIPTION	LIST PRICE
MU for Spool	For Marine or mine use ADD on per spool (exchange for like)	30
513044	Motor Spool with spring centring mechanism	172
513037	L Spool with spring centring mechanism	172
513034	Double Acting Hi Flo Spool with spring centring mechanism	160
513029	Single Acting Hi-Flo Spool with spring centring mechanism	160
513028	Single Acting Spool with spring centring mechanism	160
513027	Double Acting Spool with spring centring mechanism	160
512055	OP106 Seal Kit all seals	39
512002	Seal Kit Single Spool all seals and metal step washers	40
512008	Seal Kit Double Spool all seals and metal step washers	52
512029	Seal Kit Triple Spool all seals and metal step washers	63
512004	Seal Kit Four Spool all seals and metal step washers	72
512005	Seal Kit Five Spool all seals and metal step washers	86
512021	OP105 Seal Kit all seals	POA

New Development OP20 Upgraded to 120 l/min with 7/8"UNO or 3/4"BSPP ports

512019	OP104 Seal Kit all seals	POA
512016	OP103 Seal Kit all seals	12
512007	Proportional Air Seal Kit (old kit with stainless steel piston)	12
512003	Proportional Air Seal Kit (new kit with aluminium piston)	94
511047	CC Closed Centre Plug (Plug A) part of kit for closed centre	27
511005	PBH High Pressure Carry over plug 1- 1/16" UNF Hi - Flow	66
511003	PB High Pressure Carry over plug for power beyond "Hi-Cap"	28
511002	NR Pressure Relief Plug (Plug B) part of kit for closed centre	26
509020	SCDB Spring Centred Detent with det. Acting on B port is pressurised	150
509017	Spring Centring Kit to suit all spools, supplied without spring cap	52
509007	SCDA Spring Centred Detent with det. acting on A port is pressurised	150
507007	D1 Detent per spool, (3 position) kit,	48
506028	OP106 Solenoid manifold kit (includes manifold, screws & 'O' rings)	107
506034	OP106 Solenoid manifold kit (includes manifold, screws & 'O' rings 24 v DC	107
506027	OP106 Solenoid kit (includes manifold kit, and 2 off solenoid valves 24 v DC	460
506025	OP106 Solenoid Air kit (incl. OP106 kit, manifold, 2 off solenoid valves 24V	648
506031	OP106 Solenoid Air kit (incl. OP106 kit, manifold, 2 off solenoid valves 12V	
506023	W1 OP106 air shift	211
505025	Relief Valve R2 cartridge set to 2000 psi	217
505020	Relief Valve R1 (standard) cartridge, set to 2000 psi	160
504502	Handle Lever complete with nut and rubber knob	32
504028	Lever Box with shift leg & rubber boot but no handle	142
504015	H, Kit B used when converting standard lever assembly valve to dual control, (e.g.) lever and air or lever and cable.	108
504014	H, Kit A used when fitting dual control, with air or cable already fitted.	249
504010	Handle Assembly Old Style not including handle lever	154
502019	Spool Eye New Style to suit lever box handle (current style)	30
413001	Rubber Boot for lever box	12
340004	Spring Cap supplied without M6 cap screws	32
249011	L Spool only	131
249008	Motor Spool only	140
249007	Single Acting Spool only	131
249006	Double Acting Spool only	131

Proportional Electrical / Hydraulic Spool Actuation for OP20 Control Valves



OP20 configured with 3 solenoid actuated spools with manual override and 2 manually operated spools (in the upside-down configuration). Typically utilised in Tilt Tray applications

The OP20, Australia's benchmark 80 lpm directional control valve is now available with on/off – proportional control powered by World Class HydraForce 12 or 24 volt drop in cartridges.

FEATURES:

- On / Off plus Proportional capability
- Low Current draw:
 - 12-volt 1.3 amp Maximum
 - 24-volt 0.65 amp Maximum
- Coils have a 100% duty cycle @ + or – 15% of specified voltage
- Ambient Air temperature -40° C to 80° C
- Operating temperature -40° C to 149° C
- High Pressure Waterproof coils IP69K

OPTIONS:

- 12-volt or 24-volt coils
- 2, 3,4,5 spool valve configurations
- Double acting, Single acting, and motor spools available
- Manual override on all spools.

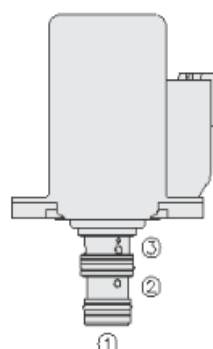
PRICING

- Pricing upon application for each configuration *

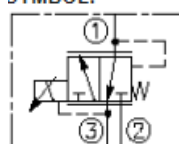
HydraForce cartridge utilised for actuating spool movement

EHPR98-T33 — Proportional, Reducing / Relieving, Drop-in

STP file for EHPR98-T33.
Request a quote.



SYMBOL:



DESCRIPTION

A drop-in, flange mount, direct-acting, hydraulic pressure reducing/relieving valve, which can be infinitely adjusted across a prescribed range using a variable electric input. Pressure output is proportional to DC current input. The E-coil is an integral part of the valve assembly, and cannot be replaced or field-serviced.

OPERATION

The EHPR98-T33 allows free flow from 1 to 3 when no current is applied to the coil. When the coil is energized, 2 is connected to 1. Increasing current applied to the coil will increase the control (reduced) pressure proportionally. If pressure at 1 exceeds the setting induced by the coil, pressure from 1 is relieved to 3.

Note: Back pressure on port 3 becomes additive to the pressure setting at a 1:1 ratio.

FEATURES

- 12 or 24 VDC coils in Australia
- Economical drop-in style.
- Integral waterproof coil standard.
- Corrosion-resistant plating.
- Manual override and screen options.
- Several push-on termination options.

RATINGS

Max. Inlet Pressure: 241 bar (3500 psi)

Max. Tank Pressure at port 3: 34.5 bar (500 psi)

Max. Control Current: 1.38 amps for 10 VDC coil; 1.30 amps for 12 VDC coil;
0.69 amps for 20 VDC coil; 0.65 amps for 24 VDC coil

Control Pressure at Maximum Control Current: 30 bar (435 psi)

Resistance: 4.2 ohm (10V), 5.1 ohm (12V), 17.0 ohm (20V), 19.3 ohm (24V)

Inductance: 80 mH (12V)

Hysteresis: 4% with 100 Hz PWM

Rated Flow: 3.8 lpm (1.0 gpm)

Maximum Internal Leakage: De-energized: 200 ml/min (12 cu. in./min) @ 241 bar (3500 psi);

Energized @ I_{max}: 400 ml/min (24 cu. in./min) @ 241 bar (3500 psi).

Step Response: T_{ON} <30 ms; T_{OFF} <12 ms

Temperature: -40° to 149°C (-40° to 300°F) with HNBR seals

-26° to 204°C (-15° to 400°F) with Fluorocarbon seals

-54° to 107°C (-65° to 225°F) with Polyurethane seals

Ambient Air Temperature: -40° to 80°C (-40° to 176°F)

Environmental Rating: IP69K

Filtration: See [page 9.010.1](#)

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of
7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, [page 9.060.1](#)

Installation: Flange Mount

Mounting Screws: M4 x 0.7 x 12 Long; Part No. 4001015 (not provided with valve)

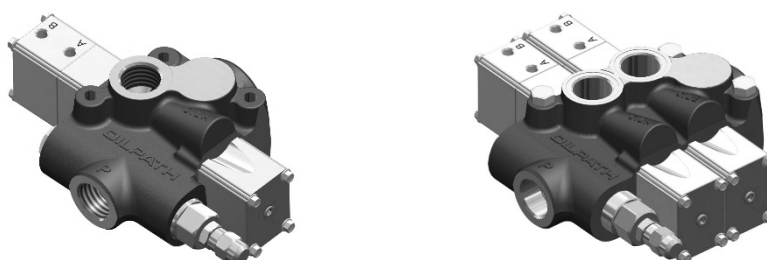
Cavity: VC-T009; See [page 9.111.1](#)

Cavity Tool: CT-T009R0-x-G; See [page 8.600.1](#)

Seal Kit: SKEHPR98-T3x; See [page 8.650.1](#)

OP22

160 lpm Single & Double Spool Directional Control Valves for the Tipping Industry



**patents pending*

The OP22 pneumatically actuated hydraulic directional control valve is the benchmark in the tipping industry for efficiency, unlike other products utilised in this application the Oilpath OP22 is specifically designed as a tipping valve and has various patents protecting the design. The Oilpath engineers designed the galleries inside the valve casting to provide minimal pressure drop especially in the return to tank line which allows the most efficient hoist down times in the industry.

Note: Oilpath re-designed its high-performance differential area direct acting relief valve which now as well as providing minimal pressure drop and incredible stability (see charts) has a feature that makes it impossible to inadvertently over pressurize the system past 3,200 psi.

OVERALL SPECIFICATIONS

- Rated Flow.....160 lpm.
- Maximum working pressure.....220 bar (3200 psi)
- Working ports.....1" bspp
- Tank Port.....1 ¼" bspp

MATERIAL SPECIFICATIONS BODY

- Body.....High tensile strength cast iron
- Spools..... Hardened steel spools
- Seals.....Buna - N

STANDARD FEATURES

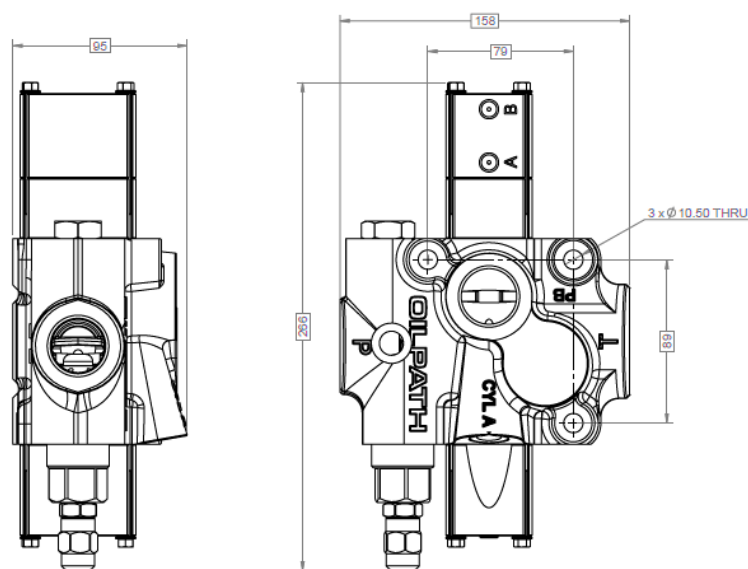
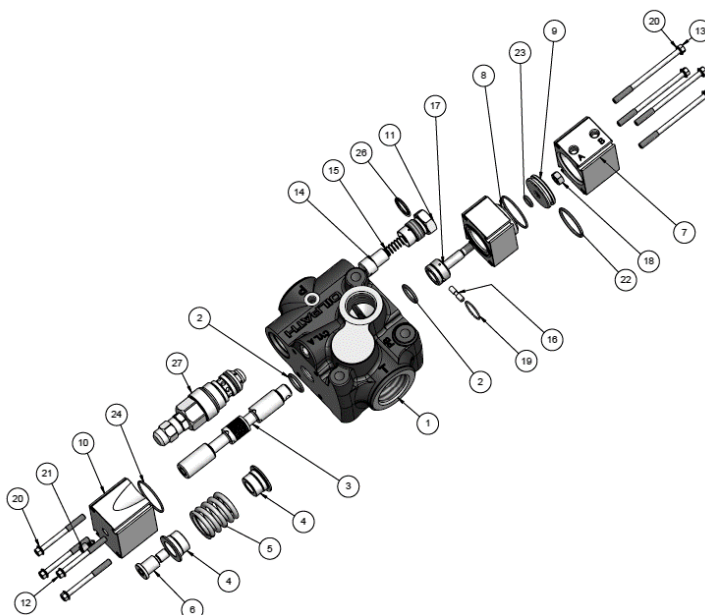
- Relief Valve.....Oilpath R3 Full Flow Direct Acting
- Pneumatic Ports.....1/8" bspp
- Test Points.....¼" bspp "A" "B" & "P" for setting & aux functions
- Vacuum Elimination.....Pneumatic actuator system has a vacuum elimination feature minimising the ingestion of moisture

OP22

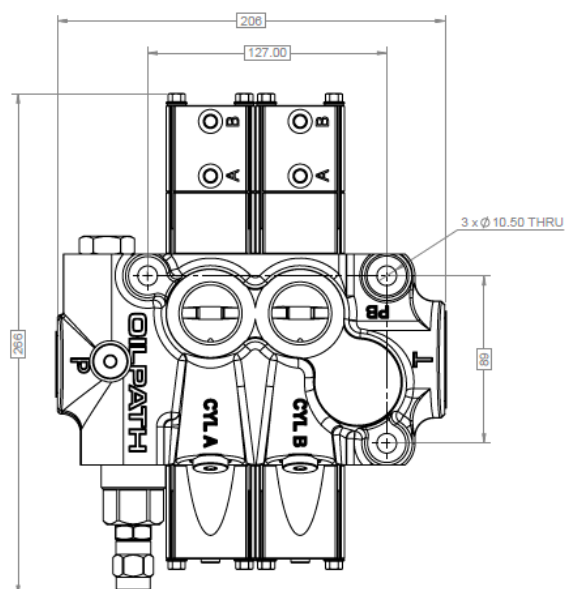
160 lpm Single & Double Spool Directional Control Valves for the Tipping Industry



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	202101	OP22 SINGLE SPOOL CASTING R3 RELIEF	1
2	401010	BS 118 NITRILE ORING	2
3	249335	SPOOL	1
4	250031	Spring Cup - OP22	2
5	418310	Spring Centre Spring	1
6	244021	Centre Stud - OP22 Spool	1
7	253159	Air Cylinder - Extruded Aluminium	1
8	253161	Housing Extension	1
9	238080	Air Piston - OP22	1
10	253160	Spring Cap - Extruded Aluminium	1
11	240336	OP22 Lift Drop Check Plug	1
12	415511	M6 x 60 Small Hex Forged Bolt (Grade 4.6)	4
13	415512	M6 x 90 Small Hex Forged Bolt (Grade 4.6)	4
14	241059	OP22 Lift Drop Check Poppet	1
15	416022	OP25 Load Check Spring	1
16	238035	Clevis Pin - OP22	1
17	237028	Piston Rod - OP22	1
18	408008	M8 Nut - Stainless Steel Grade 304	1
19	404002	Wire Circlip - OP103	1
20	415121	5 X 9 X 0.06M ZPRL W-TN RIBBED LOCK WASHER ZINC PLATED	8
21	505052	1/8" BSPT Breather Valve Assembly	1
22	401106	BS 125 NITRILE O RING	1
23	401113	BS 110 NITRILE O RING	1
24	401324	BS 029 NITRILE O RING	2
25	401463	BS 028 NITRILE ORING	1
26	401095	BG 910 NITRILE O RING	1
27	505069	R3 Relief Valve	1
28	Spring - Vent Valve	Check Valve Spring 3.4 bar	1



OP22 -1 Single Spool Truck Valve

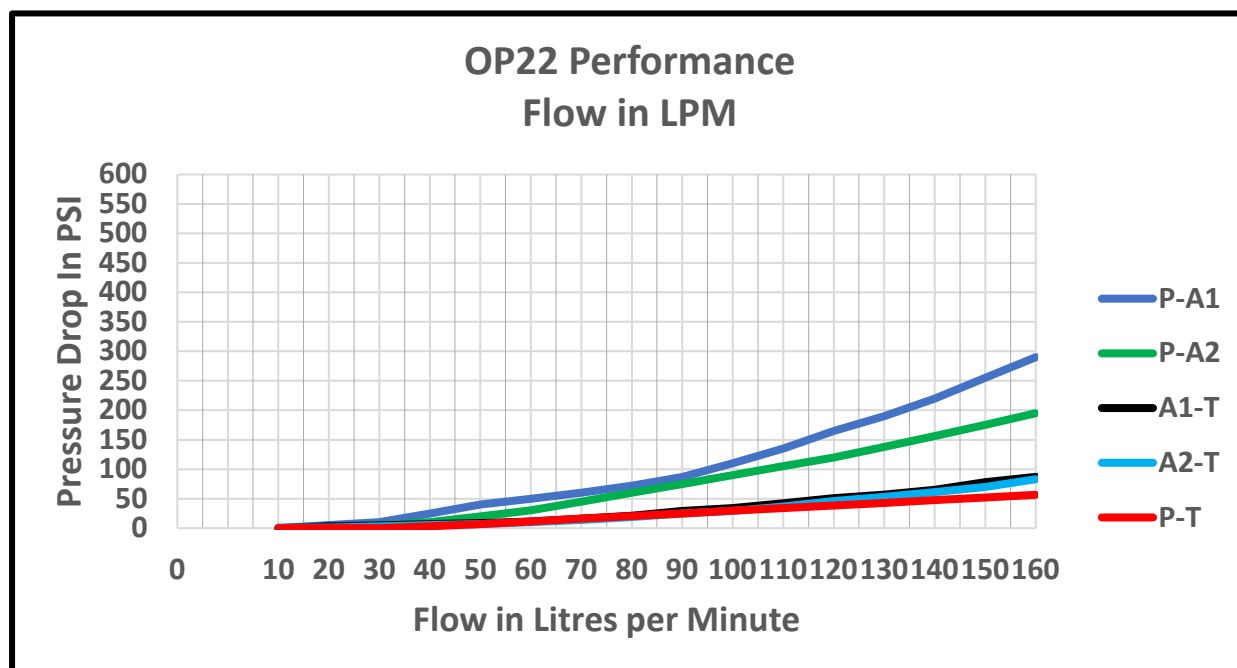
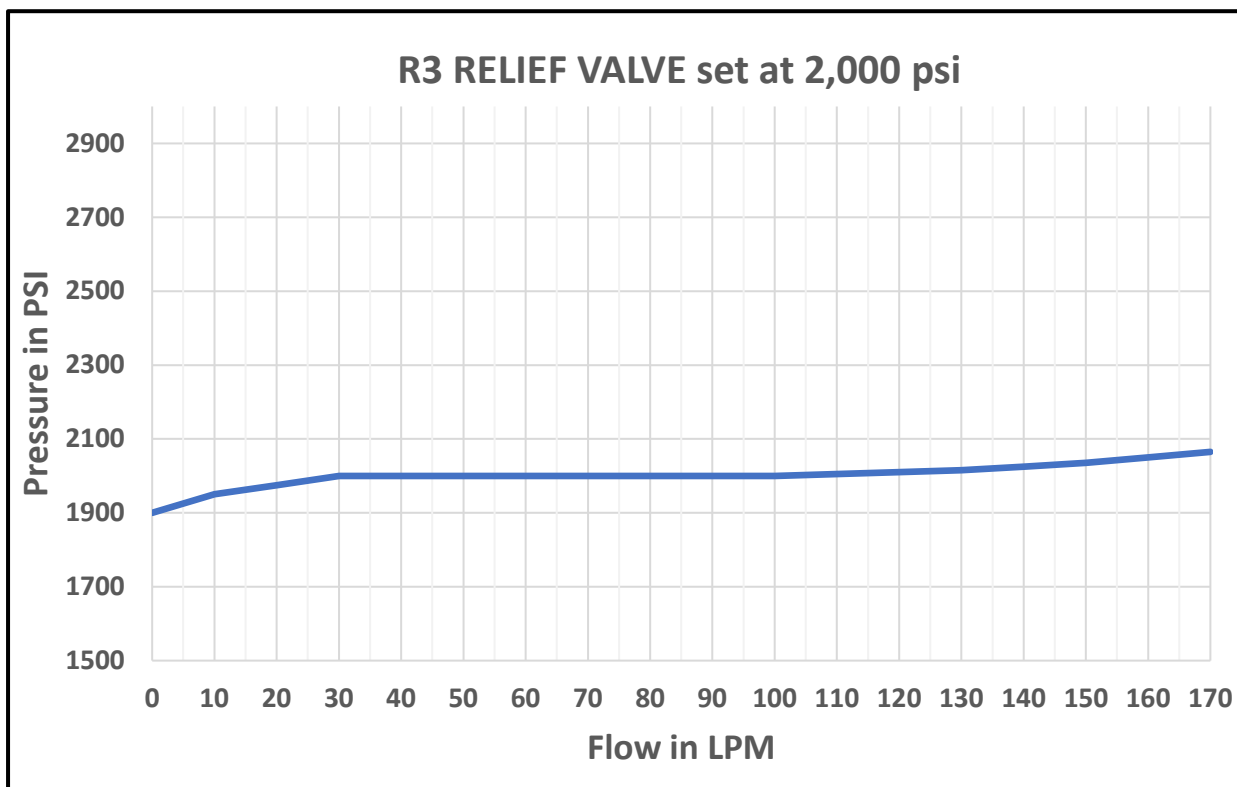


OP22 Single Spool Truck Valve

OP22

160 lpm Single & Double Spool Directional
Control Valves for the Tipping Industry

OILPATH
VALVE & MANIFOLD MANUFACTURING



OP22 Truck Valve Pricing

Part Number	DESCRIPTION OP22-1 SINGLE SPOOL	LIST PRICES Qty 10+	Qty 5 - 9	Qty 1- 4
02210003	OP22 SINGLE SPOOL R3 1"BSPP 1/8" BSPP PRESSURE PORT SWITCH 1/8" TEST POINT	\$510	\$560	\$680
Part Number	DESCRIPTION OP22 DOUBLE SPOOL	LIST PRICES Qty 10+	Qty 5 - 9	Qty 1- 4
02220007	OP22 SS A12 R3 1"BSPP - P,A,B 1-1/4"BSPP-T NO PORT RELIEF CAVITY (STD)	\$830	\$975	\$1,120

OP22 Spares

Part Number	Description	LIST PRICE
512104	OP22-1 Seal Kit	\$32
512098	OP22 Seal kit	\$48
512098	OP22 Air Cylinder Seal Kit	\$65
505069	OP22 R3 Relief Valve Cartridge	\$271
249335	OP22 Spool only	\$120
505052	OP22 Spring Chamber Vent	\$42
504060	OP22 Optional Handle Assembly	NO LONGER AVAILABLE

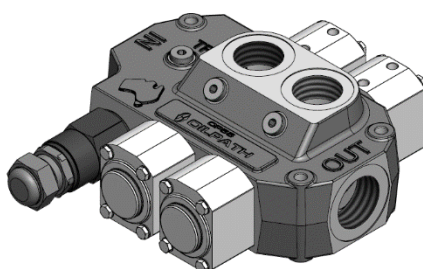
* Additional discount can be forwarded for bulk orders & annual supply agreements

OP55

250 lpm. Single Acting Truck Valves



*patents pending



The OP55 is a larger derivative of the OP22, the benchmark in the tipping industry for efficiency, similar to the OP22, the OP55 is specifically designed as a tipping valve and has various patents protecting the design. The Oilpath engineers designed the galleries inside the valve casting to provide minimal pressure drop especially in the return to tank line which allows the most efficient hoist down times in the industry.

Oilpath also designed a high-performance differential area direct acting relief valve that provides minimal pressure drop and incredible stability. (see charts)

OVERALL SPECIFICATIONS

- Rated Flow.....250 lpm.
- Maximum working pressure.....250 bar (3500 psi)
- Working ports.....1" bspp or 1 ¼"bspp
- Tank Port..... 1 ¼"bspp 1 ½ "bspp

MATERIAL SPECIFICATIONS BODY

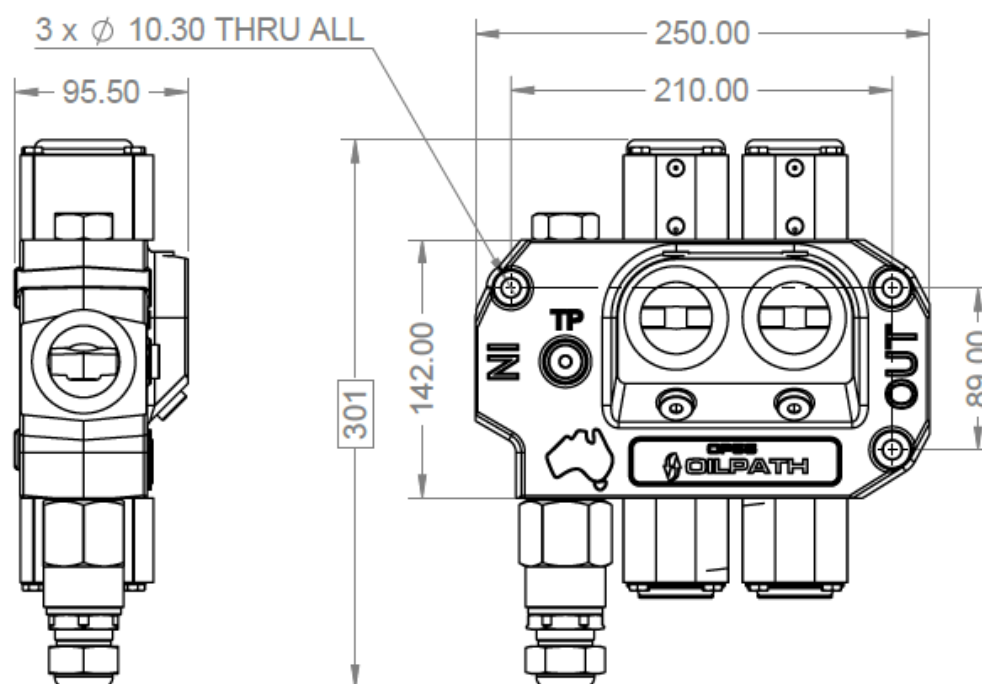
- Body.....High tensile strength cast iron
- Spools..... Hardened steel spools
- Seals.....Buna - N

STANDARD FEATURES

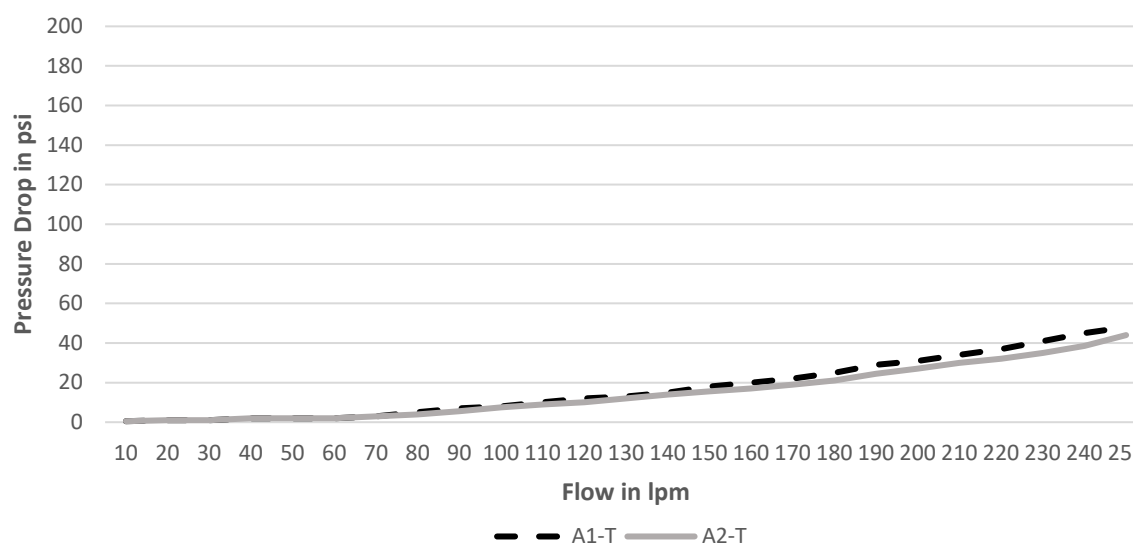
- Relief Valve.....Oilpath R55 Full Flow Direct Acting
- Pneumatic Ports.....1/8" bspp
- Test Points.....¼" bspp "A" "B" & "P" for setting & aux functions
- Tank Return.....Large internal galleries for fast lowering performance

OP55

250 lpm. Single Acting Truck Valves



OP55 Flow Curves



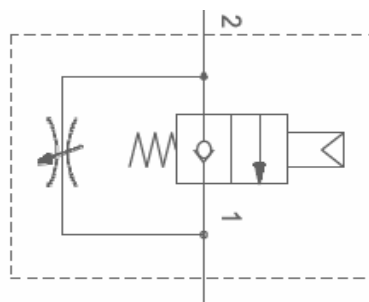
Part Number	DESCRIPTION	LIST PRICES Qty 10+	Qty 5 - 9	Qty 1-4
05500002	OP55 SS A 12 R55 1 BSPP P,A&B 1-1/4" BSPP TANK 2500 OILPATH STD	1,102	1,125	1,460

OP-APV-16-22

Pneumatically Operated Hoist Blocking Valve



**Patents Pending*



The Oilpath OP-APV-16-22 is the third generation of this market leading hoist blocking product that was designed in Australia and is manufactured in Australia utilising premium materials with “world class” manufacturing tolerances and techniques.

The latest revision provides an even lower pressure drop through the body utilising patented technology. The design also incorporates a large ratio “balanced” pneumatic cylinder which uses extremely low (2.1bar) air pressure to activate the system. The characteristics of the low-pressure requirement ensure efficient activation at times when little air is available and provides faster response times. Combining all these features guarantees the most efficient activation and hoist lowering times in the industry.

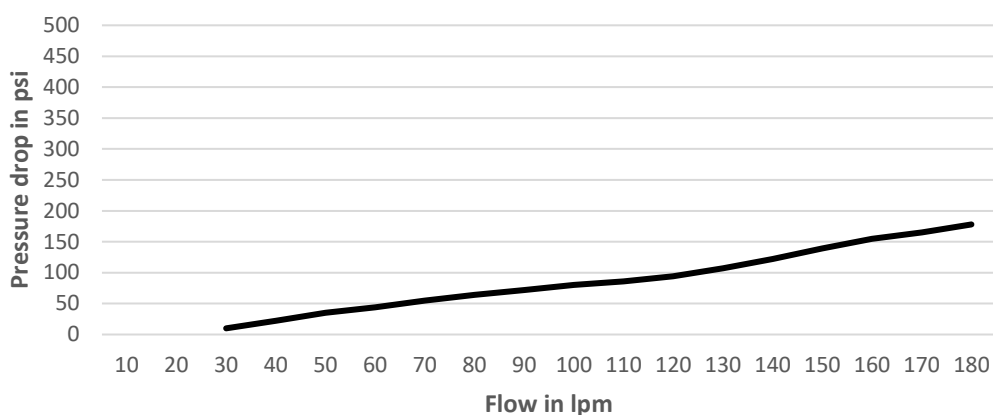
OVERALL SPECIFICATIONS

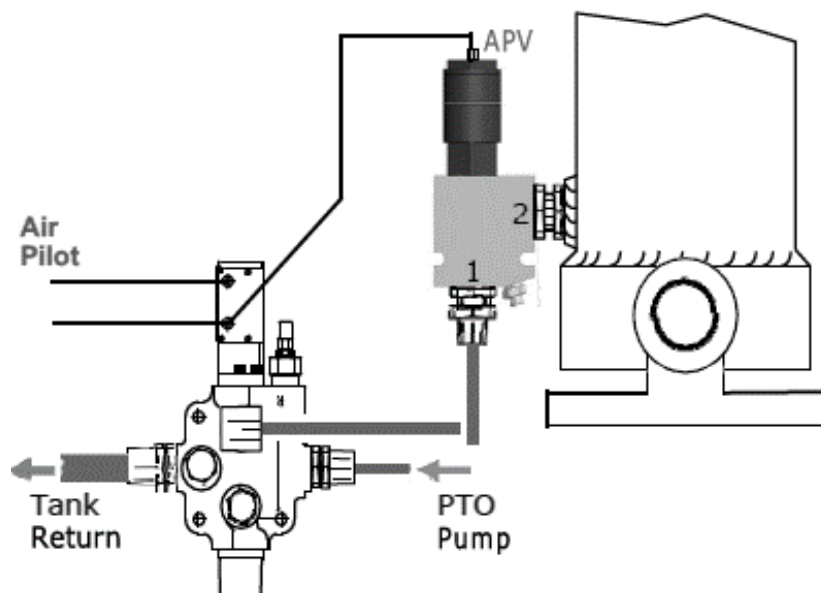
- Maximum working pressure.....210 bar (3000 psi)
- Rated flow.....180 ltrs/min

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile Aluminium
- Seals.....Buna - N

OP-APV-16-22 Hoist- Tank





Air Pilot Operation

Function	DC1	DC2	APV1
Raise	Pressure	Vent	Vent
Hold	Vent	Vent	Vent
Lower	Vent	Pressure	Pressure

Important Information

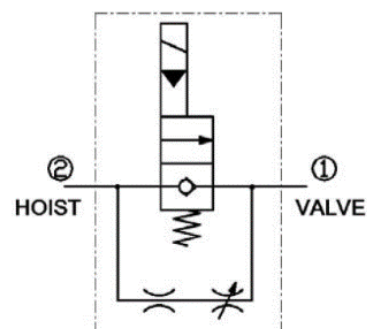
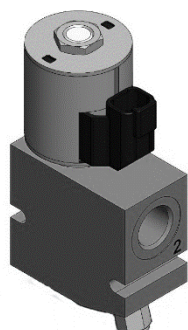
This valve must be installed by appropriately trained Hydraulics Operative as per the installation diagram above.

Do not attempt to disassemble this valve as it is designed to be maintenance free, any interference with this assembly will void all warranties and liabilities.

The only exception to the above is the external BS-029 neoprene "Breather" O-ring that needs to be replaced after 5 years or sooner if there are visible signs of deterioration.

Code	Description	List Prices 20+	10-19	5-9	<5
690222 OILPATH	OP-APV-16-22 HOIST BLOCKING VALVE 1" BSPP - OILPATH LOGO	545	610	715	860

*** Additional discount can be forwarded for bulk orders & annual supply agreements**



Oilpath Electric Hoist Blocking Valves utilise HydraForce normally closed poppet valves in conjunction with an Oilpath manufactured aluminum body and a manual override system from the pneumatic hoist block valve.

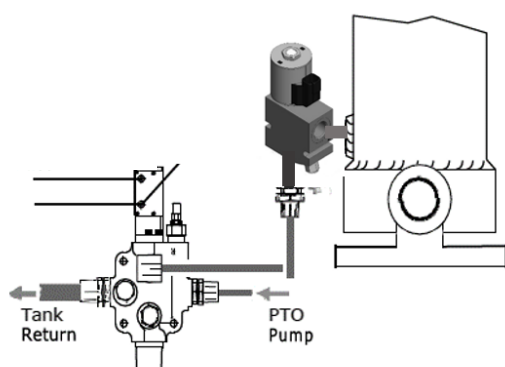
This valve utilises the world class HydraForce hardened steel poppet system and high-quality solenoids combination providing fast reliable operation and low leakage.

OVERALL SPECIFICATIONS

- Maximum working pressure.....210 bar (3000 psi)
- Sizes..... 57 lpm 1/2 " bspp & 115 lpm 3/4 "bspp
- Voltage.....12 or 24-volt Deutsch Coils

MATERIAL SPECIFICATIONS BODY

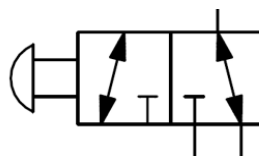
- BodyHigh tensile Aluminium
- Seals.....Buna - N



Air Pilot Operation

Function	DC1	DC2	APV1
Raise	Pressure	Vent	Vent
Hold	Vent	Vent	Vent
Lower	Vent	Pressure	Pressure

Part No	Flow l/min	Voltage	List Price 5+	List Price <5
690052	57	24	304	370
690053	115	24	342	405
690106	115	12	363	426
690107	57	12	304	370



The OP27 Three Port Valve Series is a manually operated spool type 3-way 2-position selector valve. The high-quality cast-iron valve body is cast in Australia machined at Oilpath's Adelaide facility along with the chrome plated hardened steel spools. The range also includes alternative actuation methods.

OVERALL SPECIFICATIONS

- Maximum working pressure.....210 bar (3000 psi)
- Maximum Casting shock pressure.....840 bar (12,000 psi)
- Rated flow.....118 ltrs/min (100. gpm)

MATERIAL SPECIFICATIONS

- Body..... High tensile strength Australian cast iron
- Spools.....Hardened steel chrome plated
- Seals.....Buna - N

STANDARD FEATURES

- 3-way 2-position circuit
- 3/4" bspt Ports
- Simple push pull operation with Knob Actuator
- Front inlet port position
- Easily added to an existing OP20 Circuit

OPTIONS

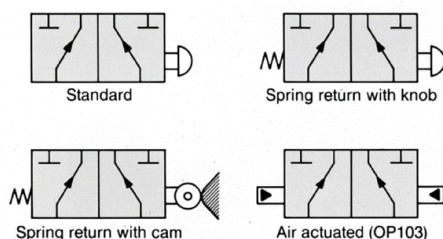
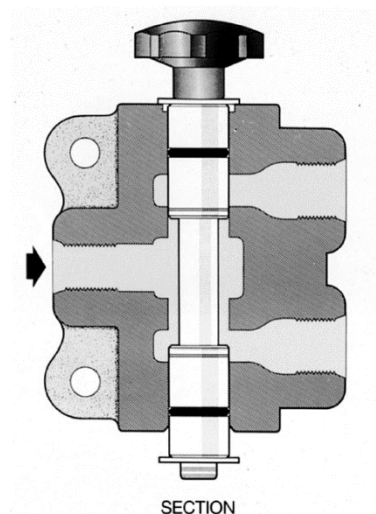
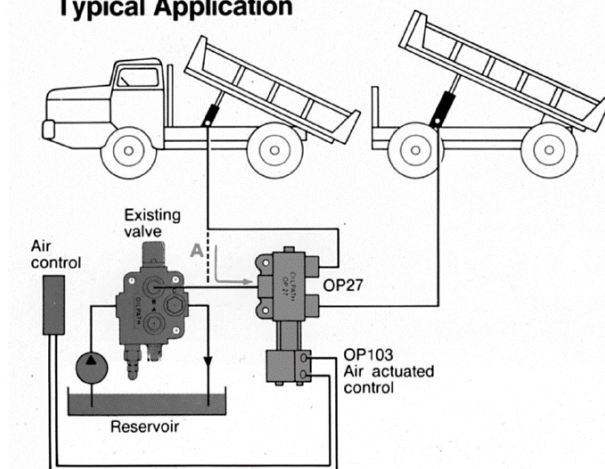
- Handle Operation (OP20 Handle)
- Air Operation
- Detent System
- Spring Offset
- Roller Cam with Spring Offset
- Alternative ports include 7/8"un, 1-1/16"un, 1-5/16"un, 3/4"bspp, 1"bspp, 1/2" bspt & 1"bspt.

OP27

Three Port selector Valve



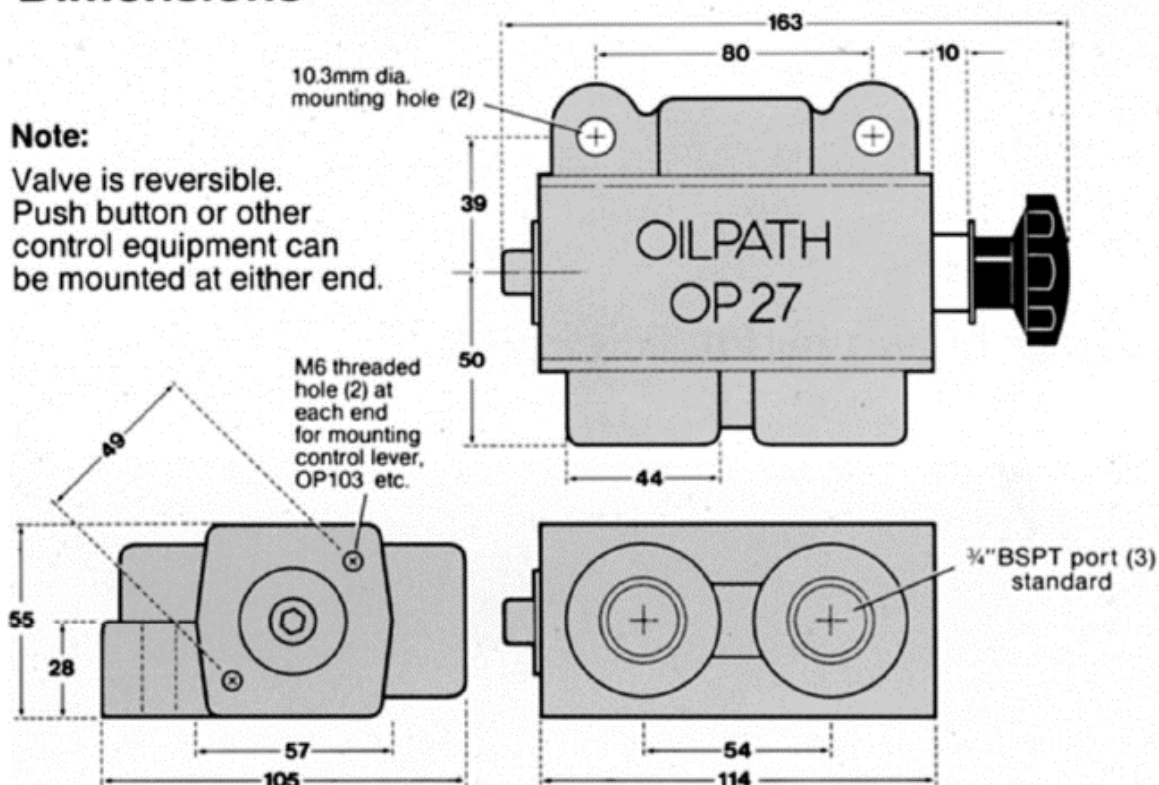
Typical Application



Dimensions

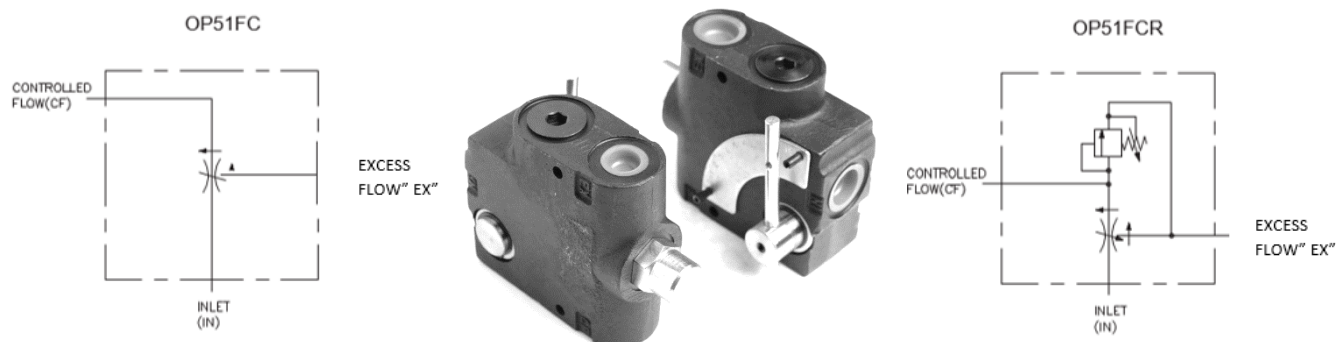
Note:

Valve is reversible.
Push button or other
control equipment can
be mounted at either end.



OP27 Valve Pricing

Part Number	Description	List Price
02700100	3/4" Ports and fitted with a plastic knob	237
02701300	3/4" Ports and fitted with spring offset kit	256
02706002	3/4" Ports and fitted with spring offset kit & new style air kit	376
	OP27 Options Pricing	
Code	Description	List Price
H	Handle operated, OP20 style	76
D	Detent	POA
P	Plunger Activation Option (must include S/O option)	POA
CR	Cam roller (must include S/O option)	POA
	OP27 Spares Pricing	
Part Number	DESCRIPTION	LIST PRICE
512036	Seal Kit (Spool O rings)	13
509013	Spring offset kit	44
507017	Detent kit	308
506044	B1 Air Kit (used with s/off)	155
504028	Lever Box Assembly	142
420003	Plastic Knob without washer	44
249001	Spool without knob or washers, plain	152



The model OP51FC is a pressure compensated swing arm adjustable flow control valve. By swinging the arm thru 90°, the flow out the CF or controlled flow port can be varied within the range given in the specification.

Any remaining flow is bypassed to the EX or excess flow port. This flow can be used to power another circuit or can be returned to tank. Once the controlled flow is set, it will remain nearly constant with variations in pressure on either the controlled or excess flow ports.

Please note, if during operation the controlled flow port is blocked, then the valve will compensate in such a manner that there will also be no flow at the EX or excess flow port. With no relief valve to protect the flow in the circuit upstream, pump failure and or component damage will occur. If this situation could occur then it is recommended to fit an extra relief valve upstream or use the model OP51FCR valve.

- valve can also be used as a restrictive flow control by plugging the excess flow port.
- The valve model FCR51 has a built-in adjustable pressure relief. For this model, the excess flow port, labelled **(EX)** **must** be connected to tank.
- It should be noted that whenever these or any valve is used to bypass or restrict flow, heat will be generated. Steps may be required to keep system oil temperature from becoming too high.

OVERALL SPECIFICATIONS

- Maximum working pressure.....210 bar (3000 psi)
- Rated flow.....114 l.p.m

MATERIAL SPECIFICATIONS BODY

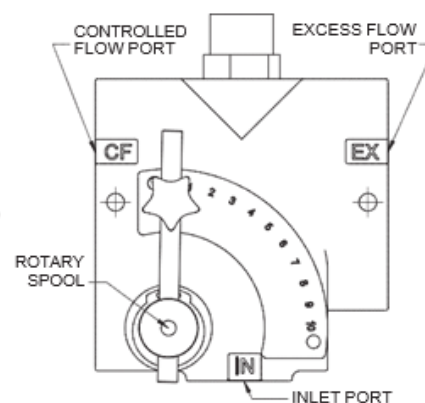
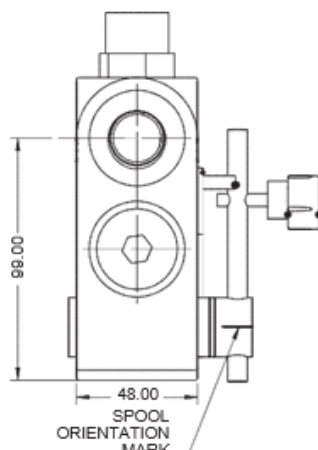
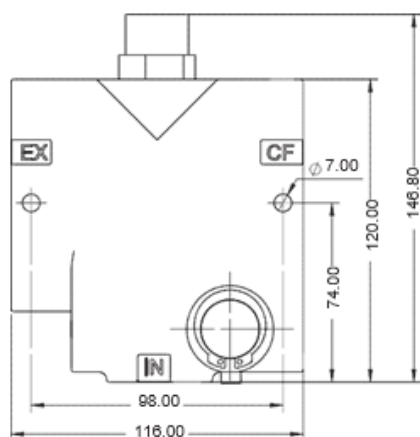
- BodyHigh tensile strength cast iron
- Spools.....Hardened steel chrome plated spools
- Seals.....Buna - N

OP51FC

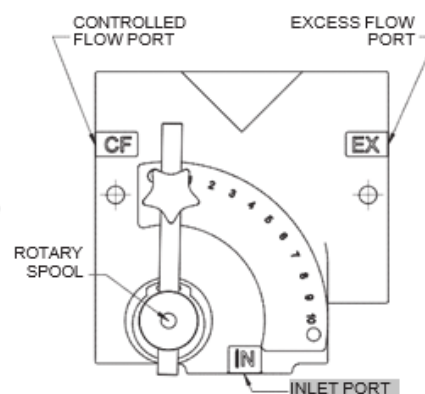
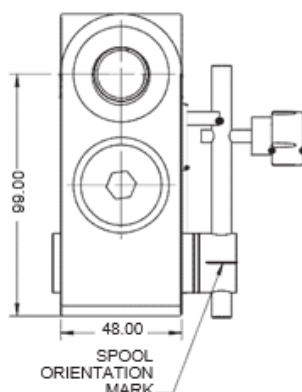
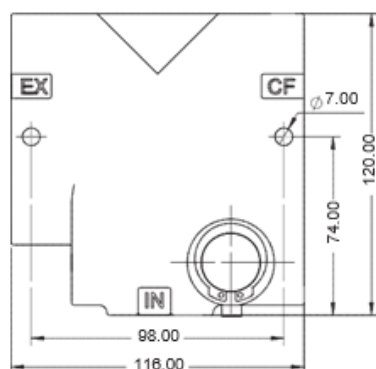
Pressure Compensated Flow Control



OP51FCR



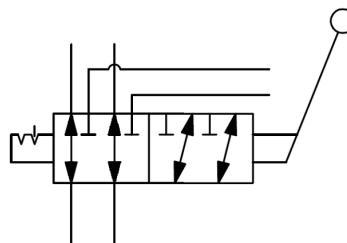
OP51FC



Model No.	Port Thread	Relief Valve	Flow US gpm	Flow l/min	Weight	List Price
OP51FC- 1/2	1/2" BSPP	No	0 - 16	0 - 60	3.8 kg	220
OP51FC - 3/4	3/4" BSPP	No	0 - 30	0 - 113	3.8 kg	220
OP51FCR - 1/2	1/2" BSPP	Yes	0 - 16	0 - 60	4.0 kg	240
OP51FCR - 3/4	3/4" BSPP	Yes	0 - 30	0 - 113	4.0 kg	240

OP80

Six Port selector Valve


OILPATH
 VALVE & MANIFOLD MANUFACTURING


The OP80 Six Port Valve Series is a manually operated spool type 6-way 2-position selector valve. The high-quality cast-iron valve body is cast in Australia machined at Oilpath's Adelaide facility along with the plated hardened steel. The range also includes alternative actuation methods.

OVERALL SPECIFICATIONS

- Maximum working pressure.....210 bar (3000 psi)
- Maximum Casting shock pressure.....840 bar (12,000 psi)
- Rated flow.....118 ltrs/min (100. gpm)

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile strength Australian cast iron
- Spools.....Hardened steel hard chrome plated
- Seals.....Buna - N

STANDARD FEATURES

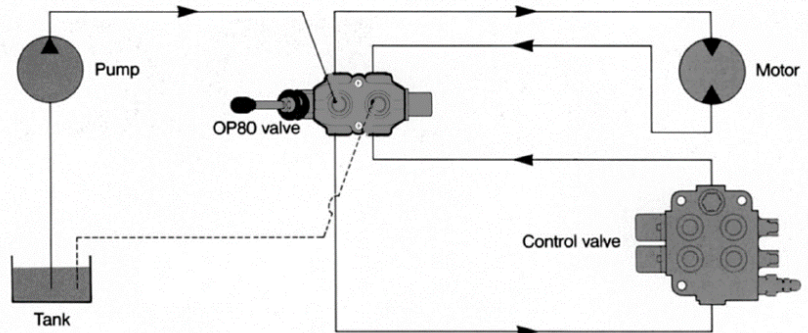
- 6-way 2-position circuit
- 1/2" bspt Ports
- Simple push pull operation with Knob Actuator
- Front inlet port position
- Easily added to an existing OP20 Circuit

OPTIONS

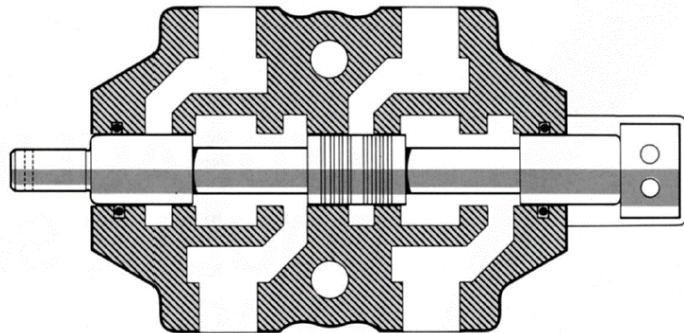
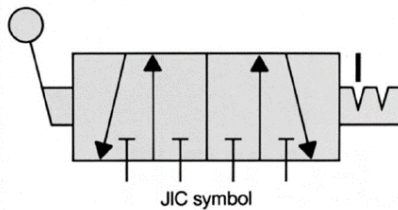
- Handle Operation (OP20 Handle)
- Air Operation
- Detent System
- Spring Offset
- Alternative ports include 7/8"un, 1-1/16"un, 3/4"bspt, 3/4"bspp

Typical application

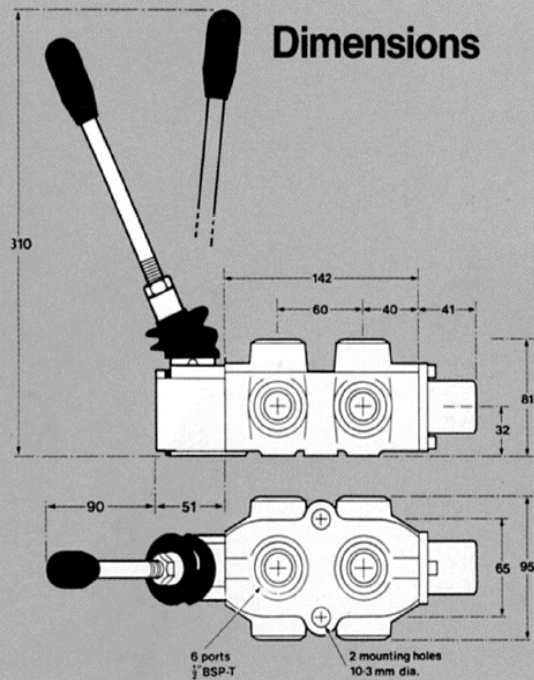
In this circuit OP80 valve is directing hydraulic pressure from pump to either a motor or a control valve.



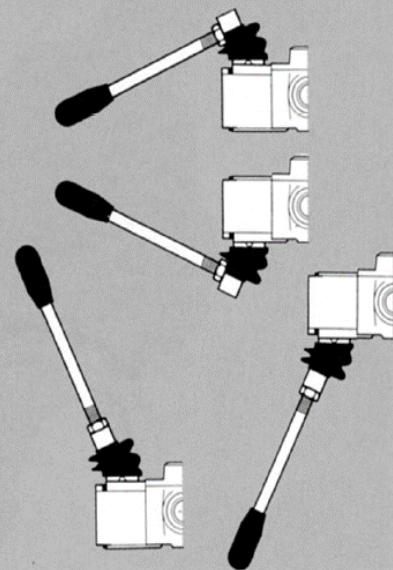
Schematic



Dimensions



Convenient linkage enables easy repositioning of handle



OP80 Six Port Selector Valve Price List

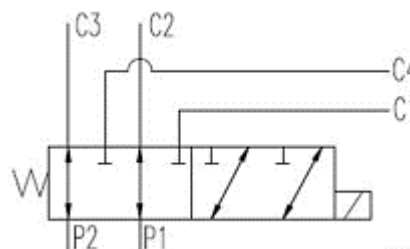
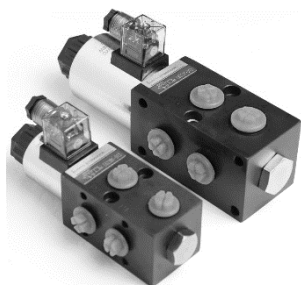
Part Number	Description	List Price
08000001	OP80 1/2"BSPT fitted with 2 position detent and OP20 style handle	392
08001000	OP80 1/2"BSPT K fitted with a black plastic knob (push pull)	338
08063000	Fitted with Air Kit and spring offset kit	484
	OP80 Options Price List	
Part Number	Description	List Price
MU	Marine use lever box and end cap	103
	OP80 Spares Price List	
Part Number	DESCRIPTION	LIST PRICE
512037	Seal kit (Spool O rings)	7
509014	Spring offset kit	42
507002	Detent Kit Complete assembly	123
506044	B1 Air Kit (used with s/off)	155
504502	Handle Lever complete with nut and rubber knob	33
504028	OP80 Lever Box	142

OP80S

Six Port selector Valve

OILPATH

VALVE & MANIFOLD MANUFACTURING



The OP80S is a stackable 6 port/2 way change over valve designed to be used when extra circuits are to be operated from one control lever on machines such as fork lift trucks, agricultural front-end loader, telescopic handlers, and in transmission circuits.

OVERALL SPECIFICATIONS

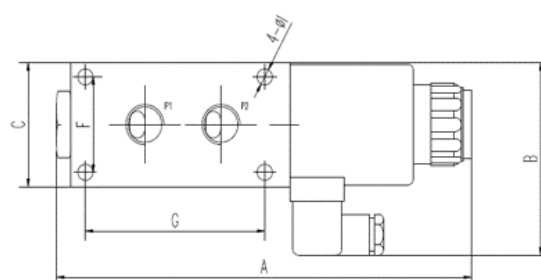
- Maximum working pressure.....250 bar (3500 psi)
- Maximum Casting shock pressure.....840 bar (12,000 psi)
- Rated flow 3/8"bspp.....40 ltrs/min
- Rated flow 1/2"bspp.....60 ltrs/min

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile strength cast iron
- Spools.....Hardened steel chrome plated spools
- Seals.....Buna - N

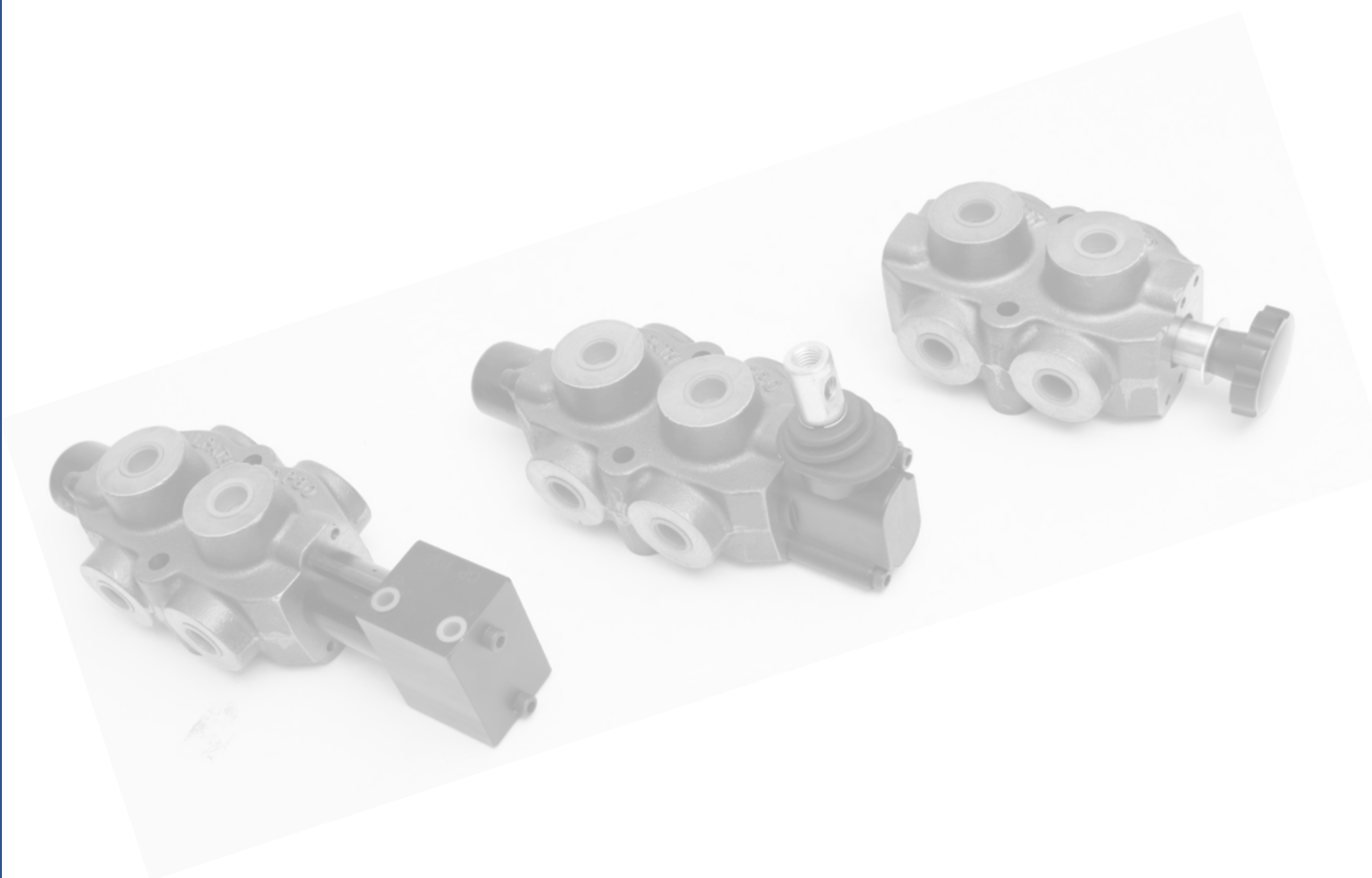
STANDARD FEATURES

- 6-way 2-position circuit
- 3/8 or 1/2" bspp Ports
- 12 or 24 volt solenoid operated



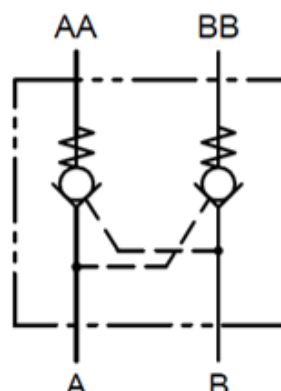
	A	B	C	D	E	F	G	H	I	J
OP80S-3/8" BSPP	175.2	84	52	36	57.5	38	42	6.4	6	52
OP80S-1/2" BSPP	229	100.6	65	46	70	50	99	8	8.4	65

Part Number	Description	List Price
08103812	OP80S-3/8" BSPP 12 VOLT DC	270
08103824	OP80S-3/8" BSPP 24 VOLT DC	270
08101212	OP80S-1/2" BSPP 12 VOLT DC	325
08101224	OP80S-1/2" BSPP 24 VOLT DC	325



OP101

Pilot Operated Double Lock Valve



Oilpath OP101 Lock valves are designed and manufactured in Australia utilising quality materials and modern machining techniques.

The pilot piston is made from hardened steel and is precision fitted to the aluminum body and activates chrome steel check valve balls the provide minimal leakage.

OVERALL SPECIFICATIONS

- Maximum working pressure.....210 bar (3000 psi)
- Sizes..... 55 lpm
- Type.....OP101-I for in-line applications
- Type.....OP101-C direct cylinder mount applications
- Port Size..... 1/2"bspt

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium
- Components.....Hardened steel balls and pilot piston
- Seals.....Buna – N

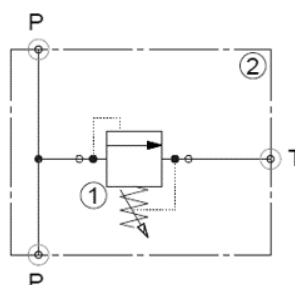
OPTIONS

- Port Size.....3/4"UNF

Model Number	Part Number	Description	List Price
OP101-C	10100100	Cylinder mounted with ½"BSPT ports	223
OP101-C	10100600	Cylinder mounted with ¾" unf ports	223
OP101-I	10100200	In-Line with ½" BSPT ports	224
OP101-I	10100800	In-Line with ¾" unf ports	224

OP110

Through Ported In-Line Relief Valves



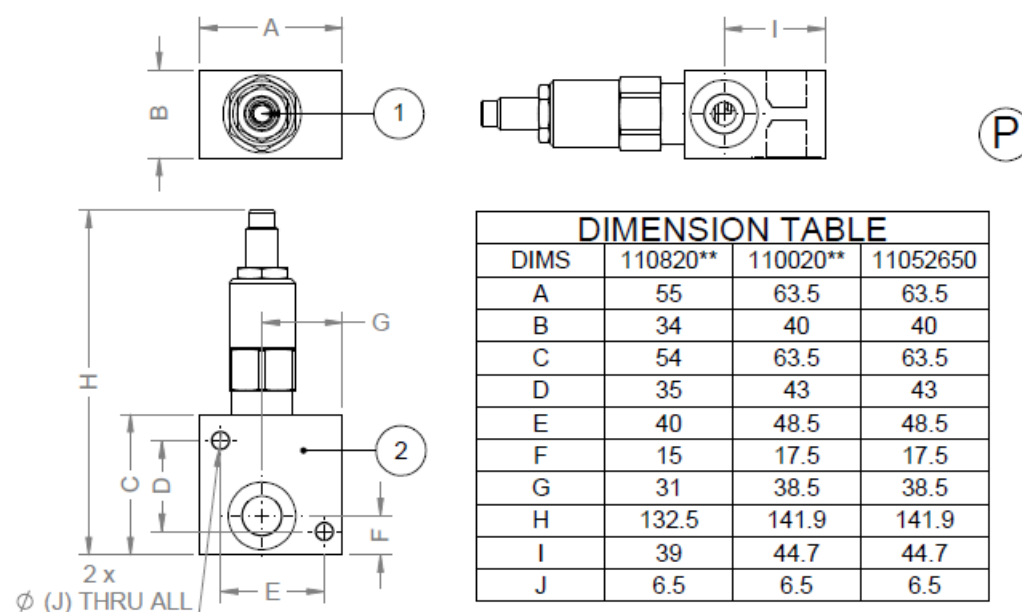
Oilpath OP110 through ported in-line relief valves are designed and manufactured in Australia utilising quality materials and HydraForce relief valve cartridges.

OVERALL SPECIFICATIONS

- Maximum working pressure.....50-210 bar (750-3000 psi)
- Sizes..... 28-160 lpm
- Port Size.....3/8" or 1/2" bspp

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium
- Components.....HydraForce Relief Valve Cartridges
- Seals.....See Chart



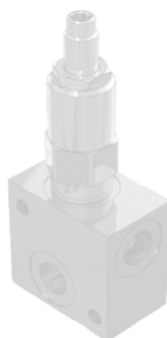
PART No.	CARTRIDGE	LINE BODY PART NO.	PRESSURE RANGE	NOMINAL FLOW	List Price
11082005	RV08-20A-O-N-5	222121 (ALLOY)	50 - 500	23 l/min	183
11082009	RV08-20A-O-N-9	222121 (ALLOY)	100 - 1100	23 l/min	183
11082018	RV08-20A-O-N-18	222121 (ALLOY)	250 - 2300	23 l/min	183
11082033	RV08-20A-O-N-33	222121 (ALLOY)	250 - 3600	23 l/min	183
11002006	RV10-20A-O-N-6	222009 (ALLOY)	50 - 600	38 l/min	187
11002012	RV10-20A-O-N-12	222009 (ALLOY)	150 - 1200	38 l/min	187
11002023	RV10-20A-O-N-23	222009 (ALLOY)	250 - 2300	38 l/min	187
11002033	RV10-20A-O-N-33	222009 (ALLOY)	250 - 3300	38 l/min	187
11002604	RV10-26A-O-N-4	222009 (ALLOY)	100 - 400	113 l/min	197
11002615	RV10-26A-O-N-15	222009 (ALLOY)	150 - 1500	113 l/min	197
11002630	RV10-26A-O-N-30	222009 (ALLOY)	400 - 3000	113 l/min	197
11052650	RV50-26A-O-P-50	222509 (STEEL)	400 - 5000	113 l/min	250

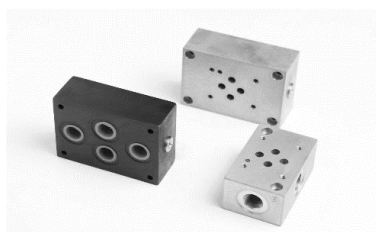
Body Porting Details

ALL PORTS: 222009 = 1/2" BSP-P
 ALL PORTS: 222121 = 3/8" BSP-P
 ALL PORTS: 222509 = 1/2" BSP-P

NEW 160 L/MIN

11082034 RV16-26H-O-N-35/25 WITH ALLOY 222122 1"BSPP - \$390





Oilpath OP111 cetop 3 and cetop 5 sub plates are designed and manufactured in Australia utilising quality materials. These subplates have various outlet porting options including side or bottom.

OVERALL SPECIFICATIONS

- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Maximum working pressure..... DuraBar 345 bar (5000 psi)
- Sizes..... Cetop 3 and 5
- Port Size..... 3/8" in Cetop 3 & 1/2" bspp in Cetop 5

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium or Durbar

Product Type	Part Number	Description Cetop 3 Products	List Price
OP111-A	111001	Single Cetop 3 alloy sub-plate, side ported 3/8" BSPP	83
OP111-A-C	111005	Single Cetop 3 cast iron as above but for 350 bar	113
OP111-B	111003	Single Cetop 3 alloy sub-plate, rear ported 3/8" BSPP	119
OP111-B-C	111006	As above but produced in cast iron for 350 bar rating.	181
OP111-A-R-*	111013	Cetop 3, Alloy, RV08-20A-0-N relief cartridge, 2 - 210 bar 40 l/min. Sub-plate with Pilot Operated Pressure Relief Valve	414

Product Type	Part Number	Description Cetop 5 Products	List Price
OP1115-A	111501	Single Cetop 5 alloy sub-plate, side ported 1/2" BSPP	131
OP1115-A- C	111502	Single Cetop 5 Steel as above but for 350 bar	163
OP1115-B	111503	Single Cetop 5 alloy sub-plate, rear ported 1/2" BSPP	131
OP1115-B-C	111504	As above but produced in steel for 350 bar rating.	163



Oilpath cetop 3 & 5 bar manifolds are manufactured with an industry standard 10-2 cavity and can be provided with HydraForce relief valves and other cartridge configurations.

OP112-* CETOP3 MANIFOLD – PARALLEL ALLOY with 10-2 relief cavity
P & T Ports 1/2" BSPP, Service Ports 3/8" BSPP

Product Type	Part Number	Description	List Price
OP112-1	112001	Single Station	122
OP112-2	112002	Two Station	153
OP112-3	112003	Three Station	200
OP112-4	112004	Four Station	250
OP112-5	112005	Five Station	306
OP112-6	112006	Six Station	354

OP112-*-S CETOP3 MANIFOLD – SERIES ALLOY with 10-2 relief cavity
P & T Ports 1/2" BSPP, Service Ports 3/8" BSPP

Product Type	Part Number	Description	List Price
OP112-2-S	112072	Two Station in series	180
OP112-3-S	112073	Three Station in series	224
OP112-4-S	112074	Four Station in series	264
OP112-5-S	112075	Five Station in series	322
OP112-6-S	112076	Six Station in series	372

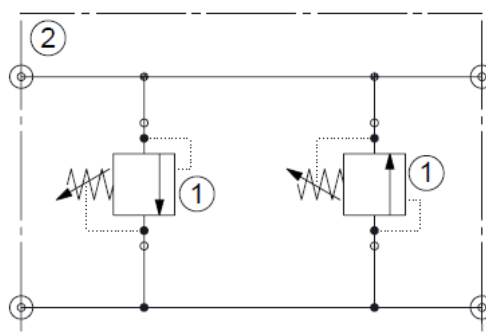
OP114-* CETOP 5 MANIFOLD - PARALLEL ALLOY with 10-2 relief cavity
P & T Ports 3/4" BSPP, Service Ports 1/2" BSPP

Product Type	Part Number	Description	List Price
OPS114-1	114001	Single Station	190
OPS114-2	114002	Double Station	305
OPS114-3	114003	Three Station	402
OPS114-4	114004	Four Station	500
OPS114-5	114005	Five Station	641
OPS114-6	114006	Six Station	730
		Cartridge Valves for all Manifolds	
		RV10-26A-0-N-30 HydraForce Relief Valve	152
		SVRV10-26-0-N-* Solenoid Relief / Unloader	395

Note: Other manifold configurations and material can be manufactured to order

OP115

Cross-Line Relief Valve



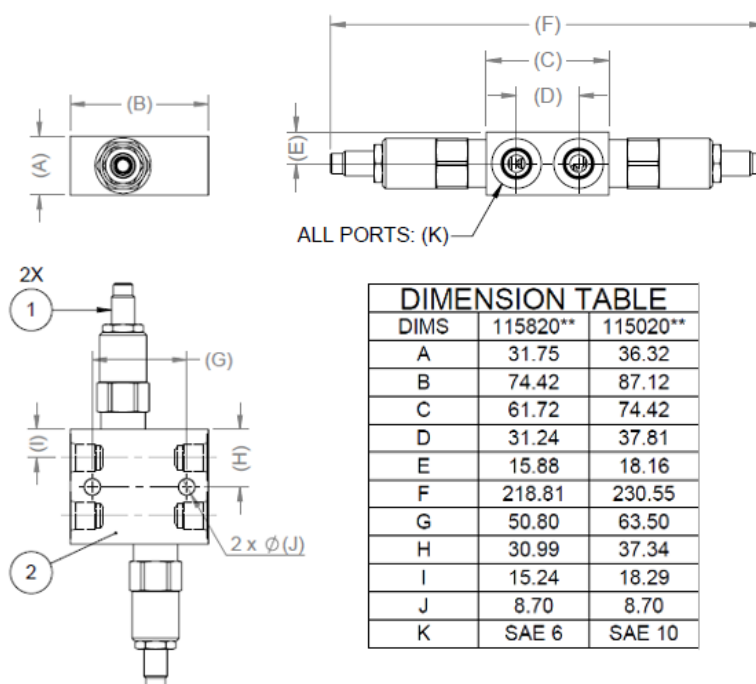
Oilpath OP115 cross line relief valves are designed and manufactured in Australia utilising quality materials and HydraForce relief valve cartridges.

OVERALL SPECIFICATIONS

- Maximum working pressure.....50-210 bar (750-3000 psi)
- Sizes..... 28-113 lpm
- Port Size.....3/8" or 1/2" bspp

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium
- Components.....HydraForce Relief Valve Cartridges
- Seals.....See Chart



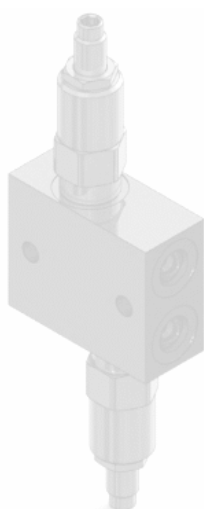
OP115

Cross-Line Relief Valve



PART No.	CARTRIDGE NOMINAL FLOW	LINE BODY PART NO.	PRESSURE RANGE (PSI)	List Price
11582005	RV08-20A-O-N-5	7070160 (ALLOY)	50 - 500 23 l/min	224
11582009	RV08-20A-O-N-9	7070160 (ALLOY)	100 - 1100 23 l/min	224
11582018	RV08-20A-O-N-18	7070160 (ALLOY)	250 - 2300 23 l/min	224
11582033	RV08-20A-O-N-33	7070160 (ALLOY)	250 - 3600 23 l/min	224
11502006	RV10-20A-O-N-6	7070170 (ALLOY)	50 - 600 38 l/min	255
11502012	RV10-20A-O-N-12	7070170 (ALLOY)	150 - 1200 38 l/min	255
11502023	RV10-20A-O-N-23	7070170 (ALLOY)	250 - 2300 38 l/min	255
11502033	RV10-20A-O-N-33	7070170 (ALLOY)	250 - 3300 38 l/min	255
11502604	RV10-26A-O-N-4	7070170 (ALLOY)	100 - 400 113 l/min	277
11502615	RV10-26A-O-N-15	7070170 (ALLOY)	150 - 1500 113 l/min	277
11502630	RV10-26A-O-N-30	7070170 (ALLOY)	400 - 3000 113 l/min	277

For cartridge performance data see HydraForce website @ www.hydraforce.com

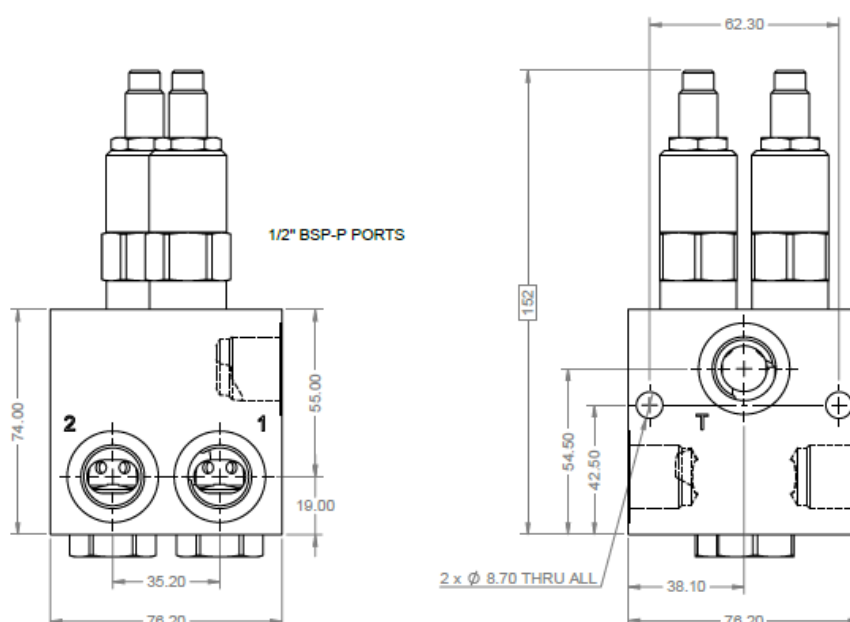
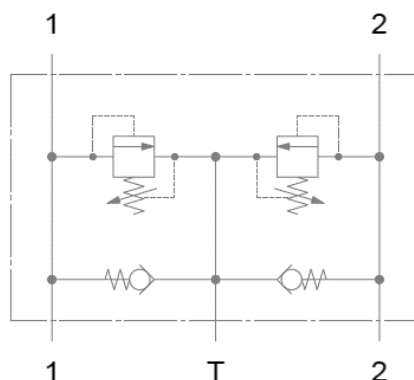


OP129

100 lpm Cross line relief with anti-cavitation checks



Oilpath 100 lpm Cross Line Relief with Anti-Cavitation Checks, incorporating HydraForce Pilot operated Relief Vales and anti-cav. Check Valves.



FEATURES

- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Port sizes.....1/2" bspp
- Cartridges.....HydraForce

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium

Part No.	Description	List Price
12900001	Oilpath 100 lpm Cross Line Relief with Anti-Cavitation Checks	570

* Contact factory for alternative sizing and options

OILPATH HYDRAULICS PTY LTD



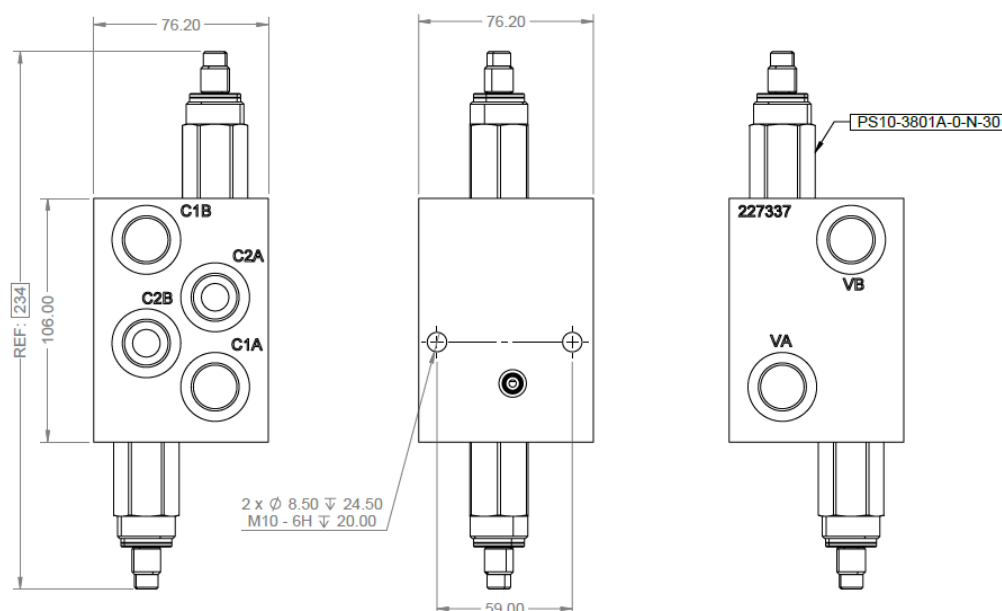
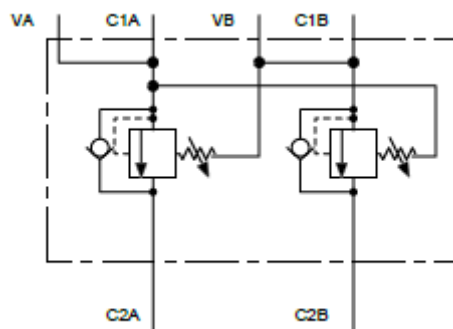
sales@oilpathhydraulics.com.au
Phone 08 82774933

OP156

100 lpm Double Sequence Valve



Oilpath 100 lpm Double Sequence Valve including reverse flow check valves, with adjustment range between 10-210 bar.



FEATURES

- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Port sizes.....1/2" bspp
- Cartridges.....HydraForce

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium

Part No.	Description	List Price
15600001	Oilpath 100 lpm Double Sequence Valve including reverse flow check valves	593

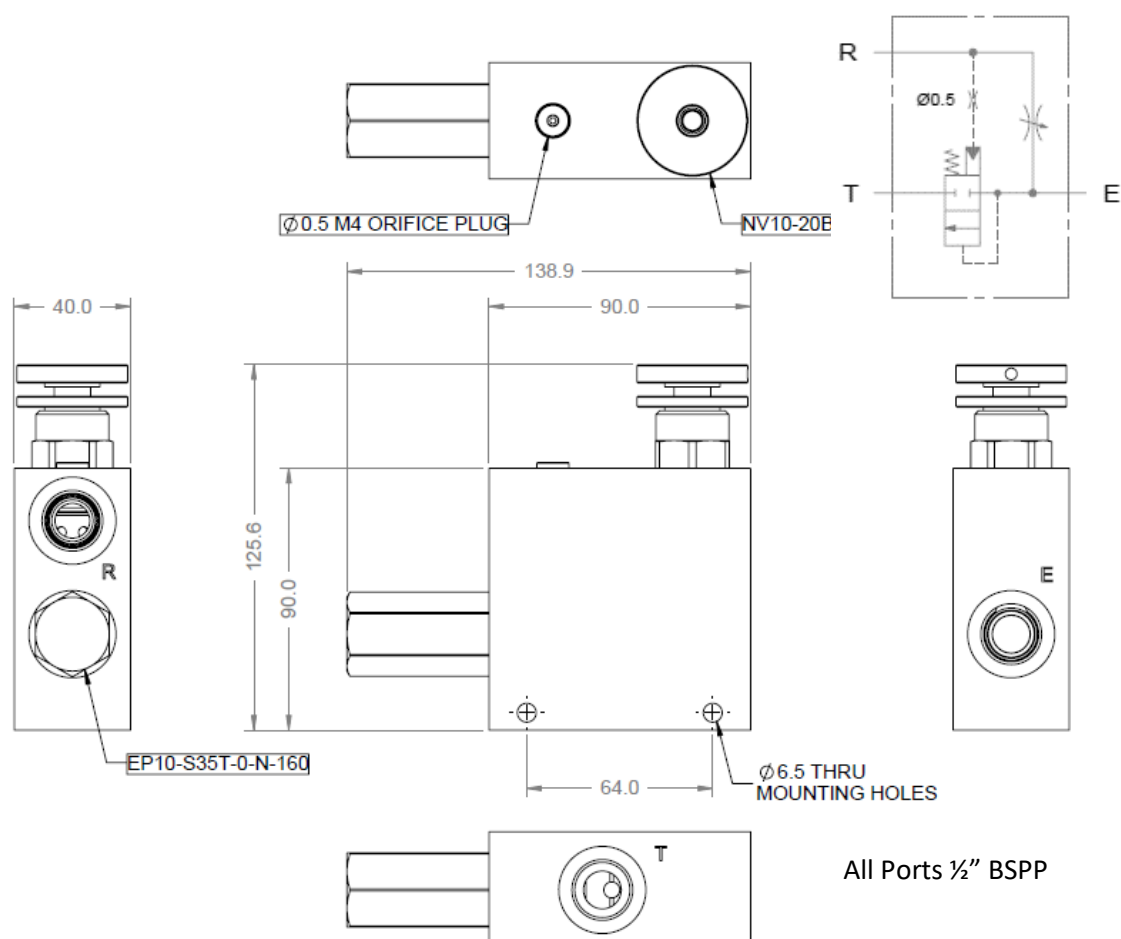
* Contact factory for alternative sizing and options

OP157

3-way pressure compensated flow regulator



Oilpath pressure compensated, three-way bypass type with maximum inlet flow of 90 lpm, maximum regulated flow of 55 lpm and maximum pressure of 210 bar.



FEATURES

- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Port Size.....1/2"bspp
- Cartridges.....HydraForce

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium

Part No.	Description	List Price
15700001	3-way pressure compensated flow regulator	342

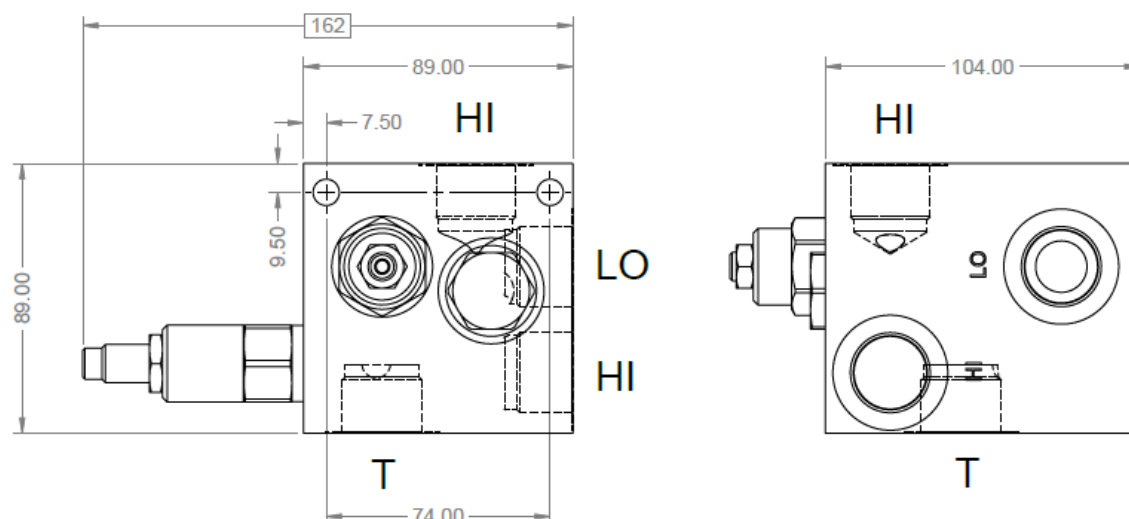
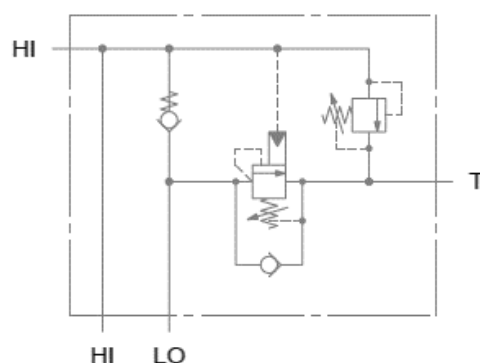
* Contact factory for alternative sizing and options

OP128

120 lpm Hi-Low Pump System Manifold



Oilpath 120 lpm Hi-Low Pump System Manifold with 3/4" bspp ports utilising highly efficient and reliable HydraForce cartridge valves.



FEATURES

- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Port size.....3/4" bspp
- Cartridges.....HydraForce

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium

Part No.	Description	List Price
12800001	Oilpath 120 lpm Hi-Low Pump System Manifold with 3/4" bspp ports	660

* Contact factory for alternative sizing and options

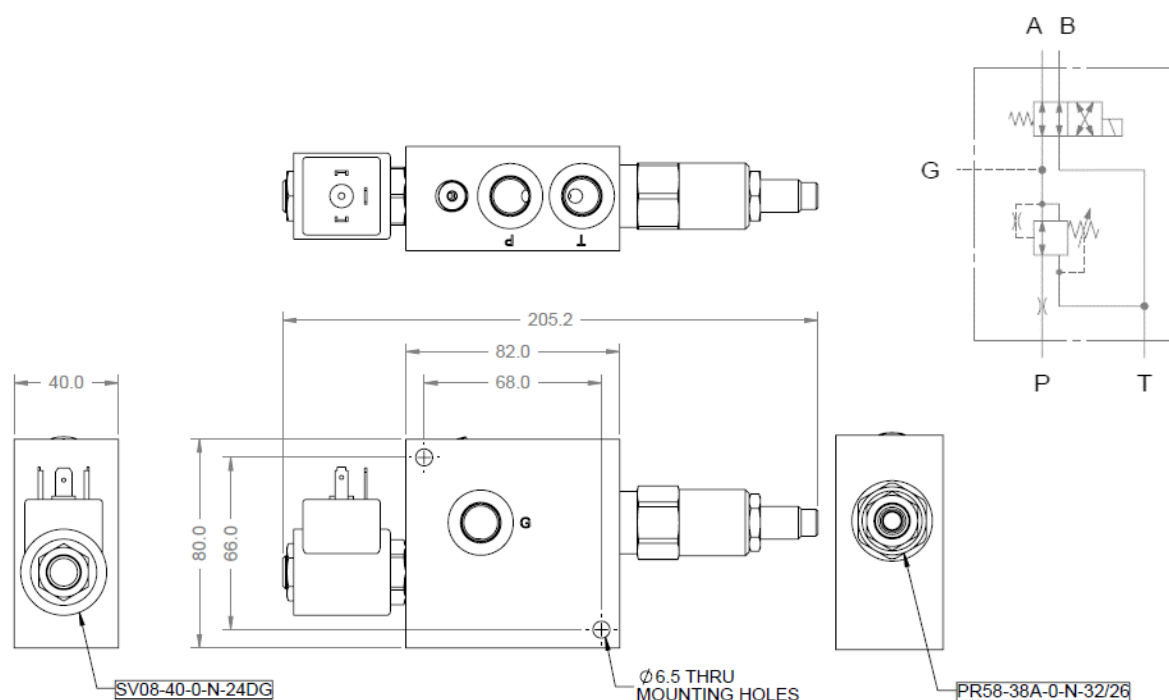
OP137

Quick Hitch Valve

OILPATH

VALVE & MANIFOLD MANUFACTURING

Oilpath OP137 Quick Hitch Valve is an economically priced, ultra-compact, quality valve, utilising HydraForce dirt tolerant cartridges. Available with 12 or 24 volt coils



ALL PORTS 9/16" UNF

FEATURES

- Maximum working pressure..... 350 bar (5000 psi)
- Port Size.....9/16"unf
- Gauge Port.....1/4"bspp
- Cartridges.....HydraForce
- Reduced pressure to cylinder
- Orifice allows connection to high flow circuits

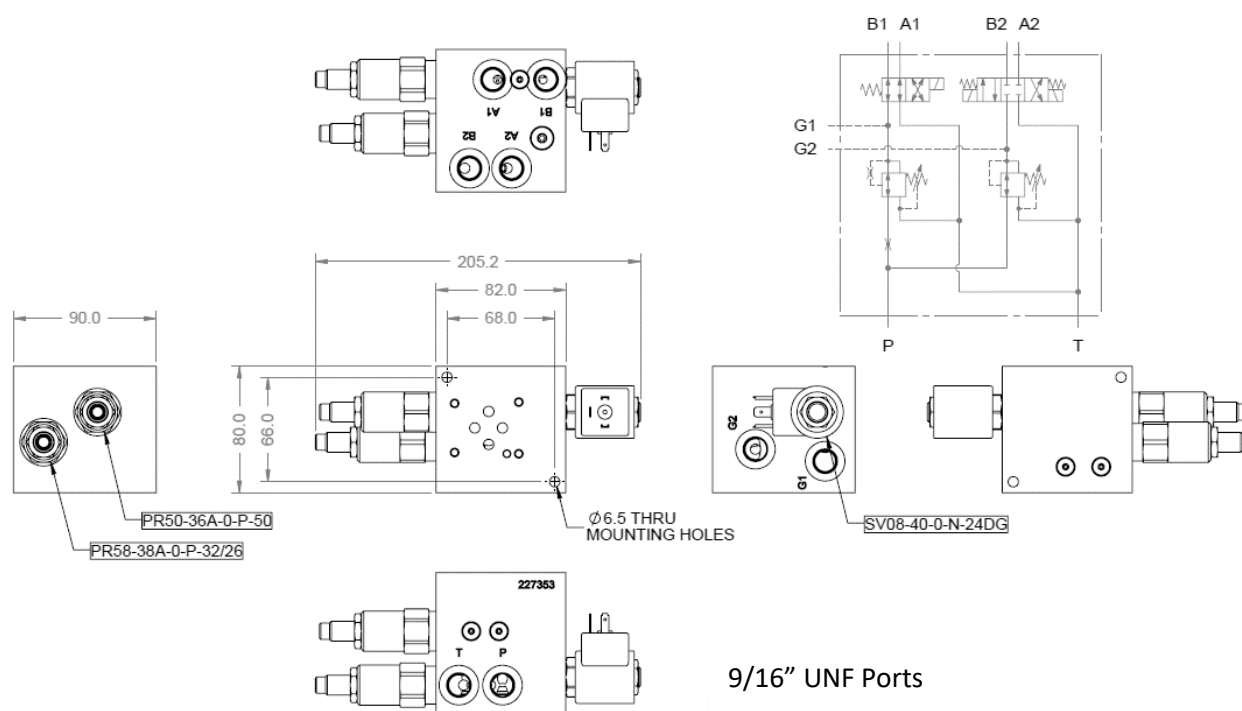
MATERIAL SPECIFICATIONS BODY

- BodyDuctile Iron

Part No.	Description	List Price
13710012	OP137 Quick Hitch Valve 12 volt	590
13710024	OP137 Quick Hitch Valve 24 volt	590

* Contact factory for alternative sizing and options

Oilpath OP140 Quick Hitch & Valve is an economically priced, compact, quality valve, utilising HydraForce dirt tolerant cartridges. Available with 12 or 24 volt coils



FEATURES

- Maximum working pressure.....0-350 bar (5000 psi)
- Port size.....9/16" unf
- Gauge Port.....1/4" bspp
- Cartridges.....HydraForce
- Reduced pressure to cylinder
- Orifice allows connection to high flow circuits

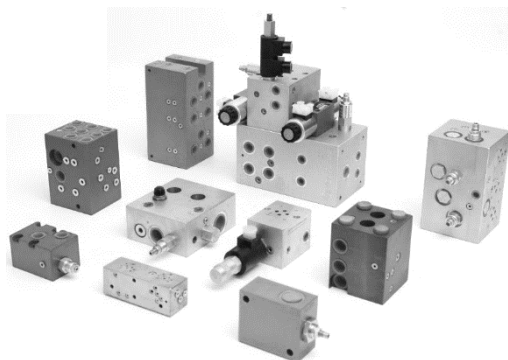
MATERIAL SPECIFICATIONS BODY

- BodyDuctile Iron

Part No.	Description	List Price
14000012	OP140 Quick Hitch & Tilt Valve 12 volt. (does not include Cetop 3 valve)	993
14000024	OP140 Quick Hitch & Tilt Valve 24 volt. (does not include Cetop 3 valve)	993

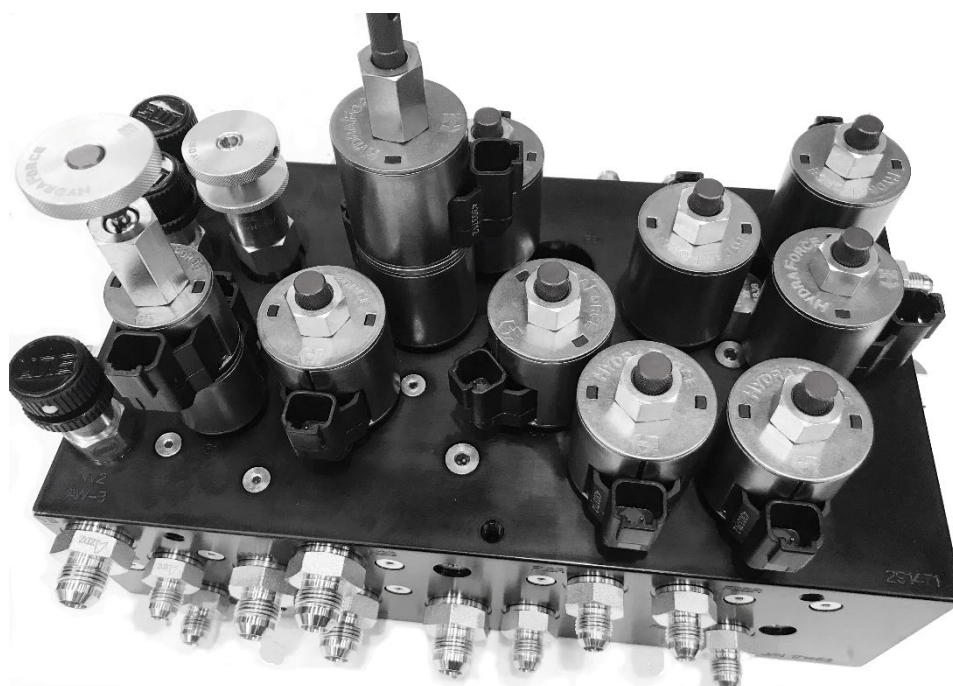
*** Contact factory for alternative sizing and options**

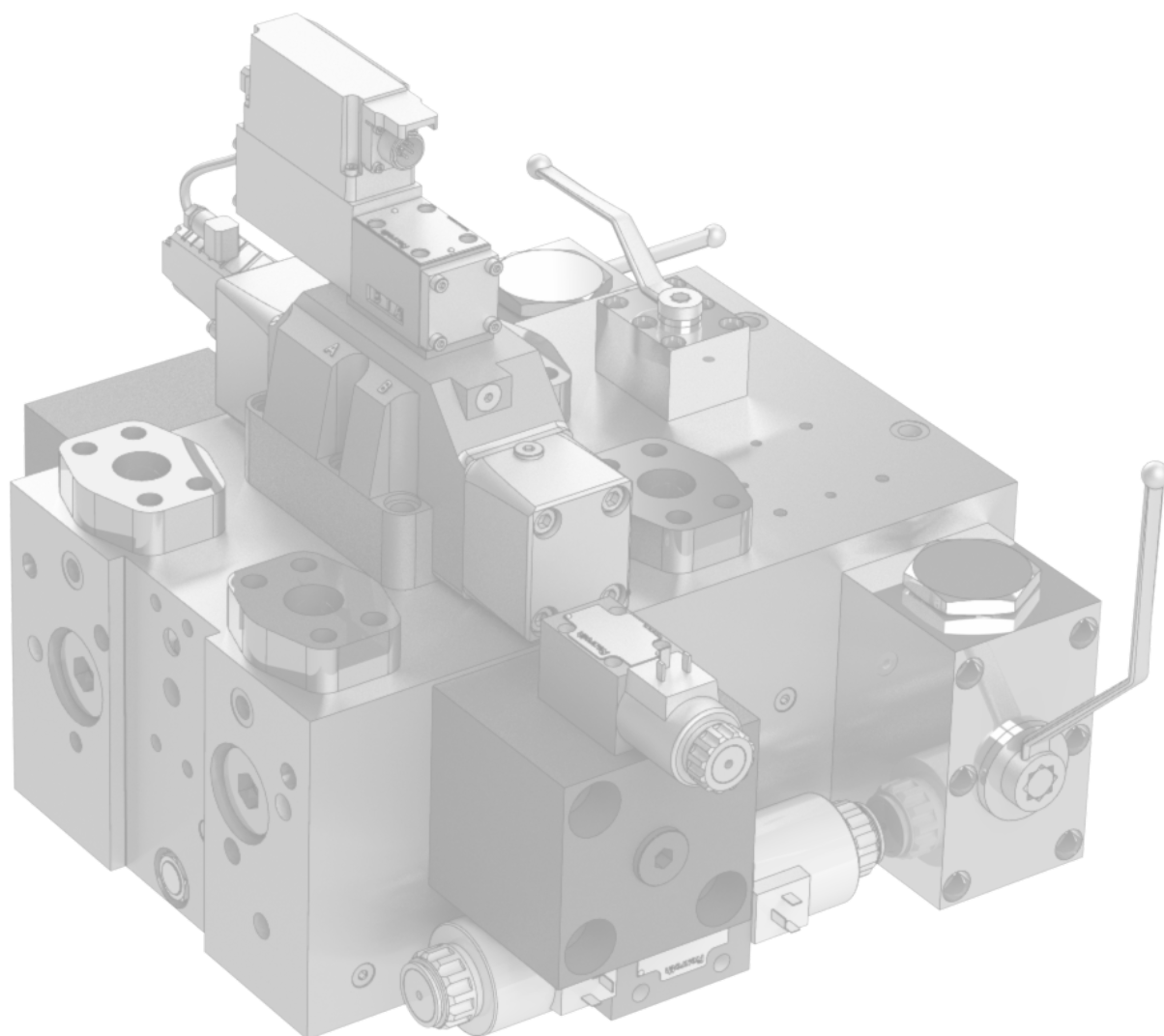
Please contact Oilpath to discuss your manifold requirements with our award winning engineers

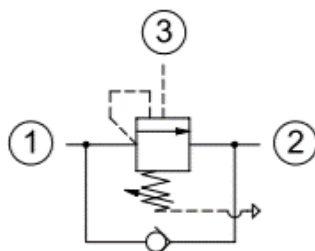


At Oilpath we believe that better performance comes from working together, and our engineers and field representatives will work with you to design your hydraulic control system. We understand that optimizing the performance of your machine starts with creative hydraulic integrated circuits, and when you work with Oilpath we utilize HydraForce cartridge valves and control equipment, therefore you can select from the broadest product range in the industry.

Our design staff will collaborate with you and verify your design prior to manufacturing a prototype. Then we'll make any necessary refinements and engineer your product to meet your exact specifications. With proprietary innovations like HydraForce I-Design, Solidworks MD Tools CAD software & Peps Manifold Expert CAM your hydraulic control schematic is easier than ever. The result is a performance- and configuration-optimized hydraulic solution that is designed exclusively for you.







Oilpath Counterbalance Cartridges from Valvole Italia

Oilpath are delighted to announce that it has entered the Counterbalance Market, we accomplished this by striking a partnership with Valvole Italia a specialist Load Holding Company formed by engineers from the counterbalance division of Oil Control, focused exclusively on the design and manufacturing of load holding product. HydraForce utilise Valvole Italia counterbalance cartridges in an increasing amount in their custom manifold division.

Oilpath are stocking a range of T11A & T2A and parts in body counterbalance product that are extremely competitively priced and technically superior to product already in the market. Oilpath have built stock in standard configurations and will stock other configurations when demand dictates, please ask about special built to specification product required.

Product Strengths

- Modular concepts available utilising same internal components
- Stainless Steel and Nickel-plated options
- Customisable pistons for specific applications optimising performance
- Cartridges proven through severe durability tests
- Proven superior stability over all other valves in market
- Superior pressure drop performance
- T11A GT Series suitable for 75 lpm with 26 bar pressure drop
- Valves designed & manufactured by a pure Load Holding Company
- T11A cartridges manufacture with smaller inscribed hexagon heads (19mm)

Other Counterbalance Products Available

Please be aware that other counterbalance products are available in Industry standard cavity, Vented Cartridges, Rotary Actuator Cartridges, Parts in a body, and other counterbalance solutions. Please call Oilpath to discuss your requirements.

PART No.	Counterbalance Cartridge Description	List Price
C000D240021100A (CBCL-LJN)	LOAD CONTROL T11A 60 L/MIN 2:1 2000-5000PSI	150
C040M210031100A	LOAD CONTROL T11A 30 L/MIN 3:1 1000-4000PSI	150
C000M140031100A (CBCA-LHN)	LOAD CONTROL T11A 60 L/MIN 3:1 1000-3000 PSI	150
C200M110031100A	LOAD CONTROL T11A 75 L/MIN 3:1 1000-2200PSI	162
C000D210040200A (CBEA-LHN)	LOAD CONTROL T2A 120 L/MIN 4:1 2000-5000PSI	220
C000T130051100A (CBCG-LKN)	LOAD CONTROL T11A 60 L/MIN 5:1 700-3000 PSI	150
C000D285051100A (CBCG-LJN)	LOAD CONTROL T11A 60 L/MIN 5:1 3045-5200PSI	150
C000D310101100A (CBCH-LJN)	LOAD CONTROL T11A 60 L/MIN 10:1 2000-5000PSI	150



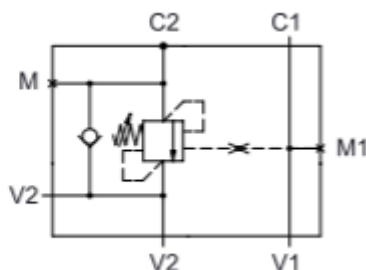
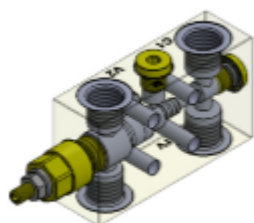
PART No.	Counterbalance Complete Parts in Body Description	List Price
SNS79L04G14D000	SINGLE C/BAL 4:1 350 BAR 1/4" BSPP	155
SNS31L04G38D000	SINGLE C/BAL 4:1 350 BAR 3/8" BSPP	161
SND79L04G14D000	DUAL C/BAL 4:1 350 BAR 1/4" BSPP	240
SND31L04G38D000	DUAL C/BAL 4:1 350 BAR 3/8" BSPP	260
SND31L04G12D000	DUAL C/BAL 4:1 350 BAR 1/2" BSPP	277
PJ17073	DUAL C/BAL 4:1 350 BAR - END C1,C2. PORTS ADJACENT TO CARTRIDGES FOR CONVENIENT CYLINDER MOUNTING 1/2"BSPP	330

Valvole

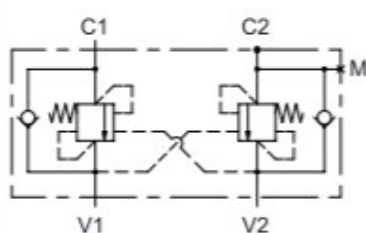
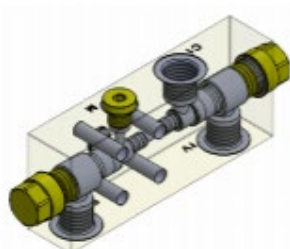
Counterbalance Product

OILPATH

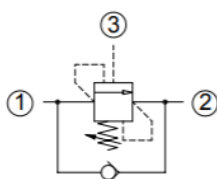
VALVE & MANIFOLD MANUFACTURING



Typical Single Counterbalance Parts-in-body.



Typical Double Counterbalance Parts-in-body.



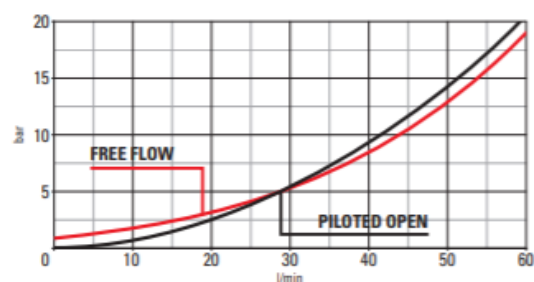
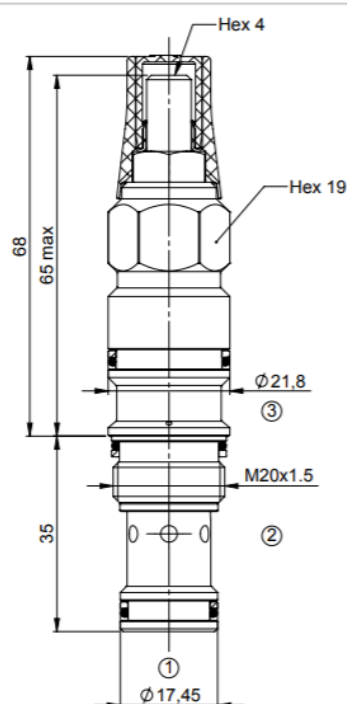
Typical Valvole Counterbalance Cartridge Example

C000M140031100A

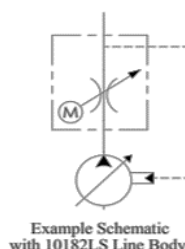
(CBCA-LHN)

3:1 Ratio

Performance Curves







Source Motorised Flow Control cartridges provide economical and simple electrical control for flows up to 190 lpm. It utilises a 12- or 24-volt DC motor to open or close a rotary spool valve. This rate is changed by providing a 12- or 24-volt signal to either increase or decrease the valve opening. In its simplest form, the control element is a DPDT three position-momentary-contact toggle or rocker switch or two DP momentary-contact push buttons.

If a more sophisticated control is desired, the loop can be closed by using a control amplifier and relay circuit in conjunction with feedback from a flow or speed sensor. The valve requires no power to maintain its flow setting. A 12-or24-volt DC is applied only while changing the flow rate and even then shut off to hold flow rate at the desired setting. In the event of a power failure or system shutdown, the system will remain at its current flow setting until power is restored and a command signal is once again supplied. Valve design allows for manual override in cases of electrical failure.

The valve is internally protected and will automatically shut down the internal drive when either the full open or full closed position are reached.

FEATURES

- Internally Protected
- Requires no power to maintain setting
- Simple to use
- Economical
- Flexible
- Efficient
- Safe

DESCRIPTION

MFC-10 and MFC-16 are cartridge design and fit generic 10-2 and 16-2 cavities respectively.

OPERATING SPECIFICATIONS

Operating Pressure 3000 psi max

Flow Rating (based on 100 psi delta P with valve fully open)	Speed in Seconds
0-5 gpm MFC-10-5- (voltage 12 or 24)	3.5 (-03 option)
0-15 gpm MFC-10-15- (voltage 12 or 24)	7.0 (-07 option)
0-20 gpm MFC-16-20- (voltage 12 or 24)	24.0 (-24 option)
0-35 gpm MFC-16-35- (voltage 12 or 24)	48.0 (-48 option)
0-50 gpm MFC-16-50- (voltage 12 or 24)	

Larger valves (20-2) available on request

All Prices available on request

Application notes on sizing motorized flow controls

The pressure drop curves shown are with the valve at full open.

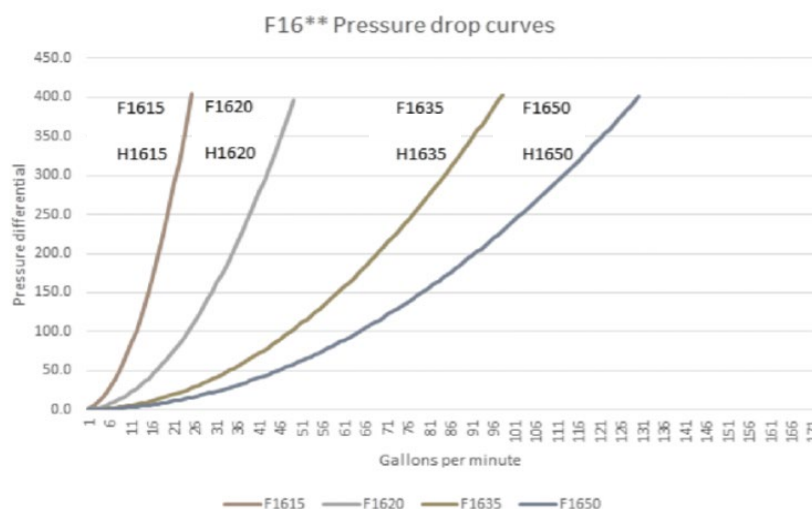
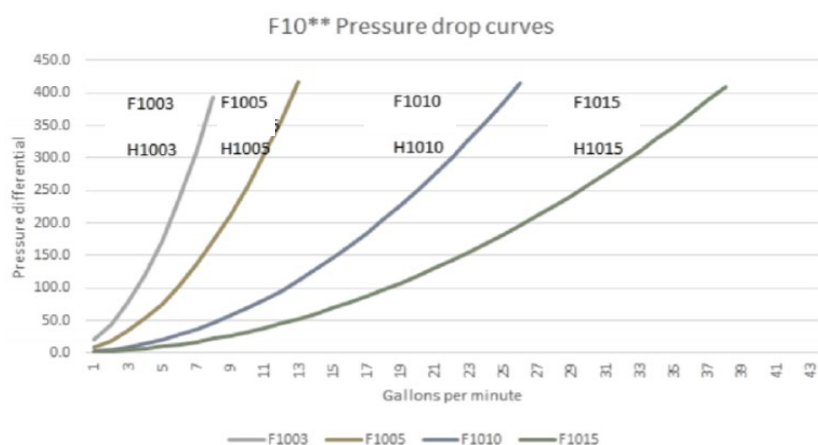
There may be a small variance from valve to valve due to tolerances in each valve. The pressure drop curves represent theoretical calculations and should only be used as a general guideline when sizing a motorized flow control.

Motorized flow control sizing example:

In a circuit that is using a 100 psi compensator and one of our F1010 size valves, the expected maximum flow would be about 12GPM.

If you were to use the same F1010 valve in a load sensing circuit with a 350 PSI compensator your expected maximum flow output would increase greatly to 24gpm.

By sizing the valve as close as possible to the maximum expected flow and pressure drop you will have the best resolution possible.

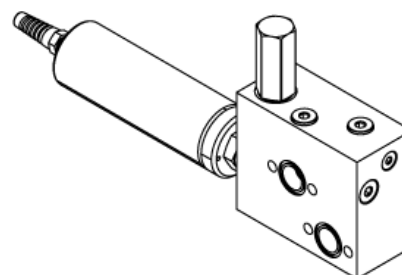
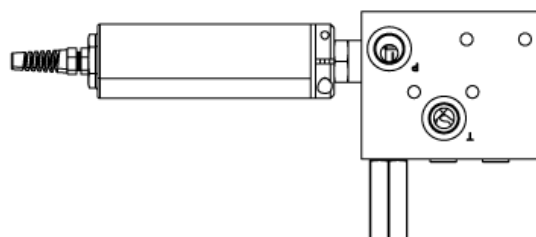
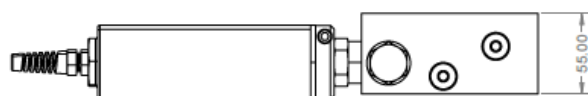
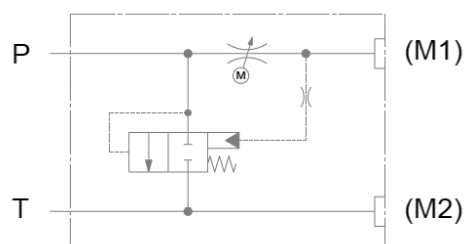
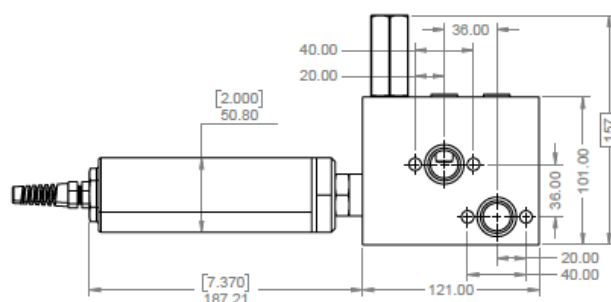


OP700

60 lpm Motorised Flow Control with Pressure Compensation



Oilpath 60 lpm Pressure Compensated Motorised Flow Control with OMP/OMR motor mounting interface and Source Motorised Flow Control Cartridge. 12 v or 24 volt system.



FEATURES

- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Flow adjustment.....0-60 lpm
- Port Sizes.....1/2"bspp
- Flow control open to close timing.....7 seconds

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium

Part No.	Description	List Price
70000012	60 lpm Pressure Compensated Motorised Flow Control. 7 second timing 12 volt	1,795
70000024	60 lpm Pressure Compensated Motorised Flow Control. 7 second timing 24 volt	1,795

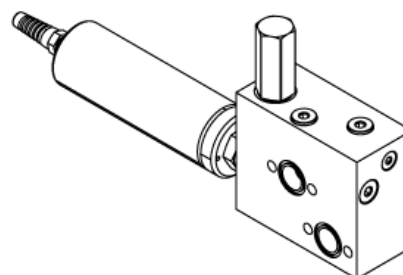
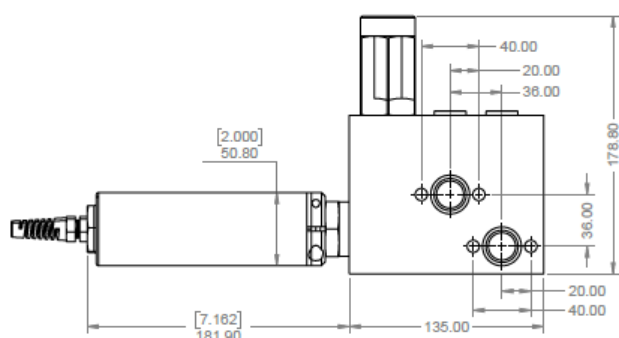
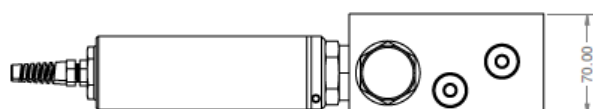
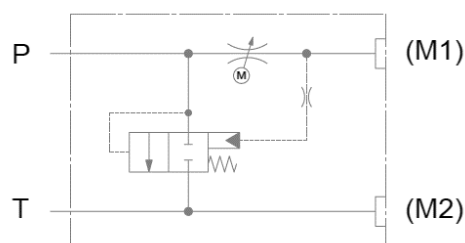
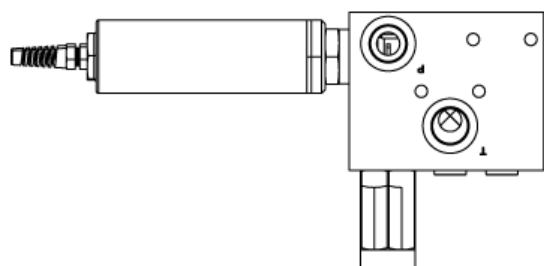
* Contact factory for alternative sizing and flow control timing

OP701

120 lpm Motorised Flow Control with Pressure Compensation



Oilpath 120 lpm Pressure Compensated Motorised Flow Control with OMP/OMR motor mounting interface and Source Motorised Flow Control Cartridge. 12 v or 24 volt system.



FEATURES

- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Flow Adjustment.....0-120 lpm
- Flow control open to close timing.....7 seconds
- Port sizes.....3/4" bspp

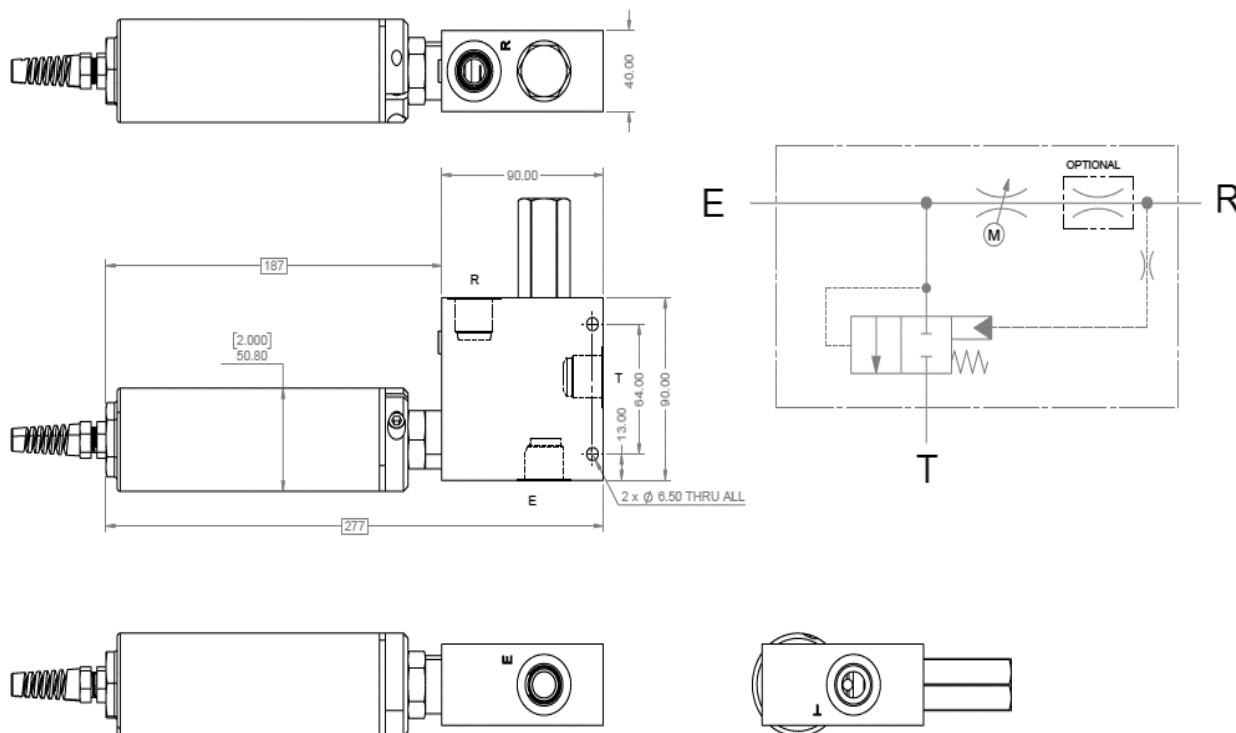
MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium

Part No.	Description	List Price
70100012	120 lpm Pressure Compensated Motorised Flow Control. 7second timing 12 volt	1,946
70100024	120 lpm Pressure Compensated Motorised Flow Control. 7second timing 24 volt	1,946

* Contact factory for alternative sizing and flow control timing

Oilpath 60 lpm Pressure Compensated (by-pass style) Motorised Flow Control with Source Motorised Flow Control Cartridge. 12 v or 24 volt system. Regulated flow adjustment range 0-50 lpm.



FEATURES

- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Regulated Flow adjustment.....0-50 lpm
- Flow control open to close time.....7 seconds
- Port sizes.....1/2"bspp

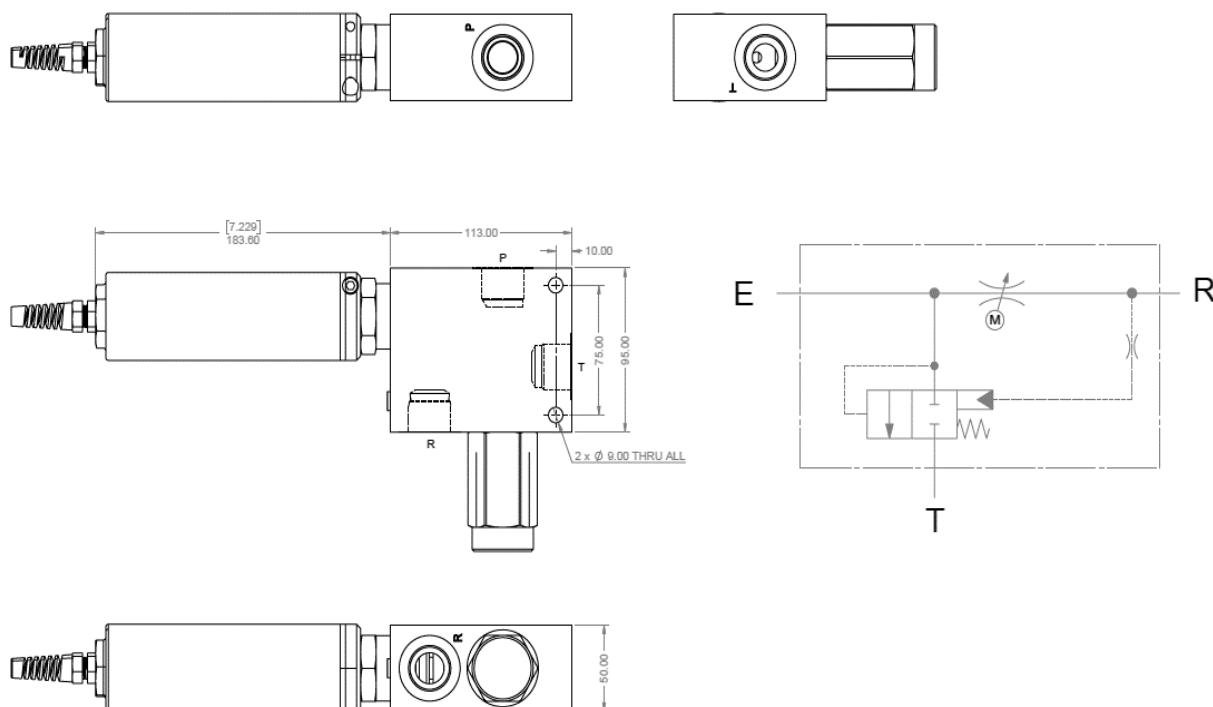
MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium

Part No.	Description	List Price
72000012	60 lpm Pressure Compensated Motorised Flow Control. Regulated flow 0-50 lpm 7 second timing 12 volt	1,675
72000024	60 lpm Pressure Compensated Motorised Flow Control. Regulated flow 0-50 lpm 7 second timing 24 volt	1,675

* Contact factory for alternative sizing and flow control timing

Oilpath 120 lpm Pressure Compensated (by-pass style) Motorised Flow Control with Source Motorised Flow Control Cartridge. 12 v or 24 volt system. Regulated flow adjustment range 0-110 lpm.



FEATURES

- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Regulated Flow adjustment.....0-110 lpm
- Flow control open to close timing.....7 seconds
- Port sizes.....3/4"bspp

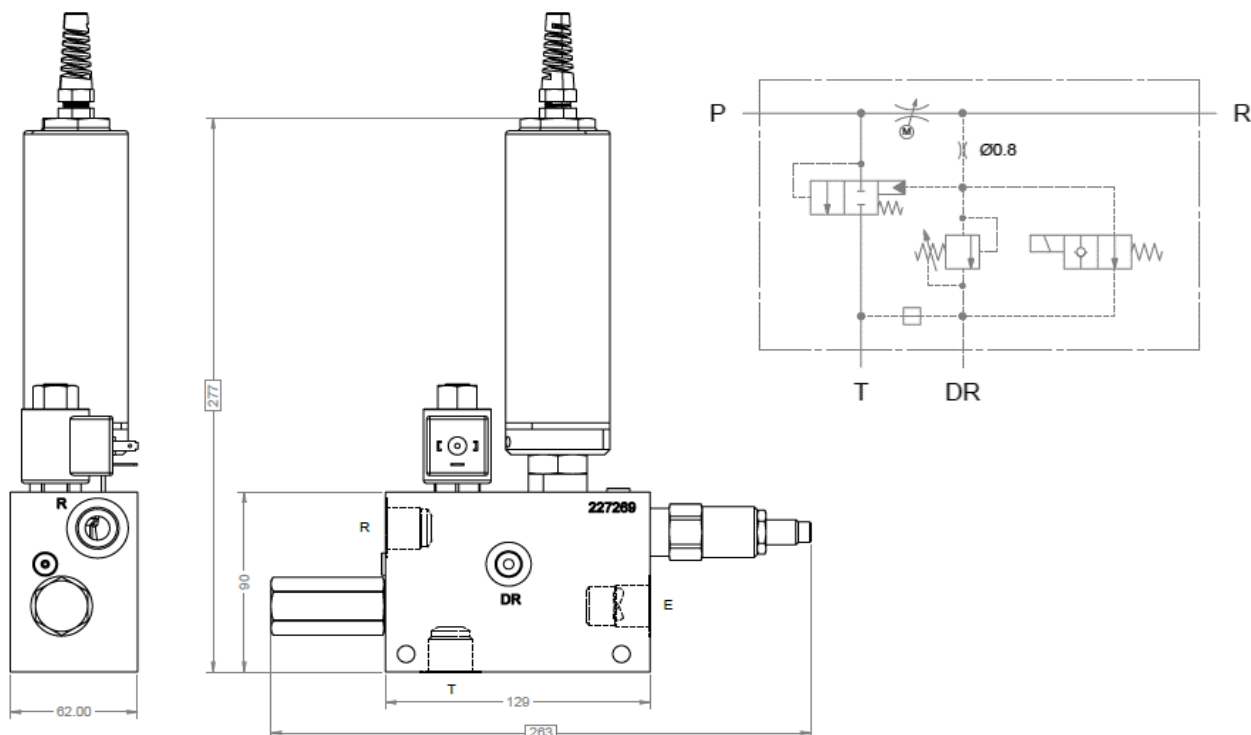
MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium

Part No.	Description	List Price
72100012	120 lpm Pressure Compensated Motorised Flow Control. Regulated flow 0-110 lpm 7 second timing 12 volt	1,827
72100024	120 lpm Pressure Compensated Motorised Flow Control. Regulated flow 0-110 lpm 7 second timing 24 volt	1,827

* Contact factory for alternative sizing and flow control timing

Oilpath 60 lpm inlet Motorised Flow Control with Pressure Compensation, unloader and relief with Source Motorised Flow Control Cartridge. 12 v or 24 volt system. Regulated flow adjustment range 0-50 lpm. With a relief and unloading facility on priority line.



FEATURES

- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Regulated Flow adjustment.....0-50 lpm
- Flow control open to close time7 seconds
- Port sizes.....1/2"bspp

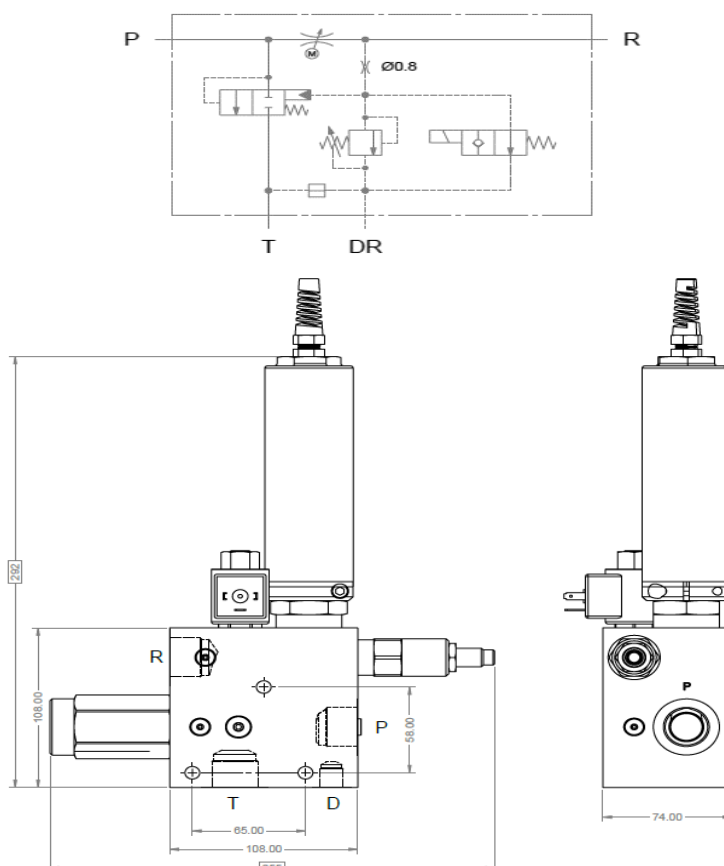
MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium

Part No.	Description	List Price
72200012	60 lpm Motorised Flow Control with Pressure Compensation and unloader relief function. 7 second timing 12 volt	2,056
72200024	60 lpm Motorised Flow Control with Pressure Compensation and unloader relief function. 7 second timing 24 volt	2,056

* Contact factory for alternative sizing and flow control timing

Oilpath 120 lpm inlet Motorised Flow Control with Pressure Compensation, unloader and relief with Source Motorised Flow Control Cartridge. 12 v or 24 volt system. Regulated flow adjustment range 0-110 lpm. With a relief and unloading facility on priority line.



FEATURES

- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Regulated Flow adjustment.....0-110 lpm
- Flow open to close time.....7 seconds
- Port sizes.....3/4"bspp

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium

Part No.	Description	List Price
72300012	120 lpm Motorised Flow Control with Pressure Compensation and unloader relief function, 7 second timing, 12 volt	2,196
72300024	120 lpm Motorised Flow Control with Pressure Compensation and unloader relief function, 7 second timing, 24 volt	2,196

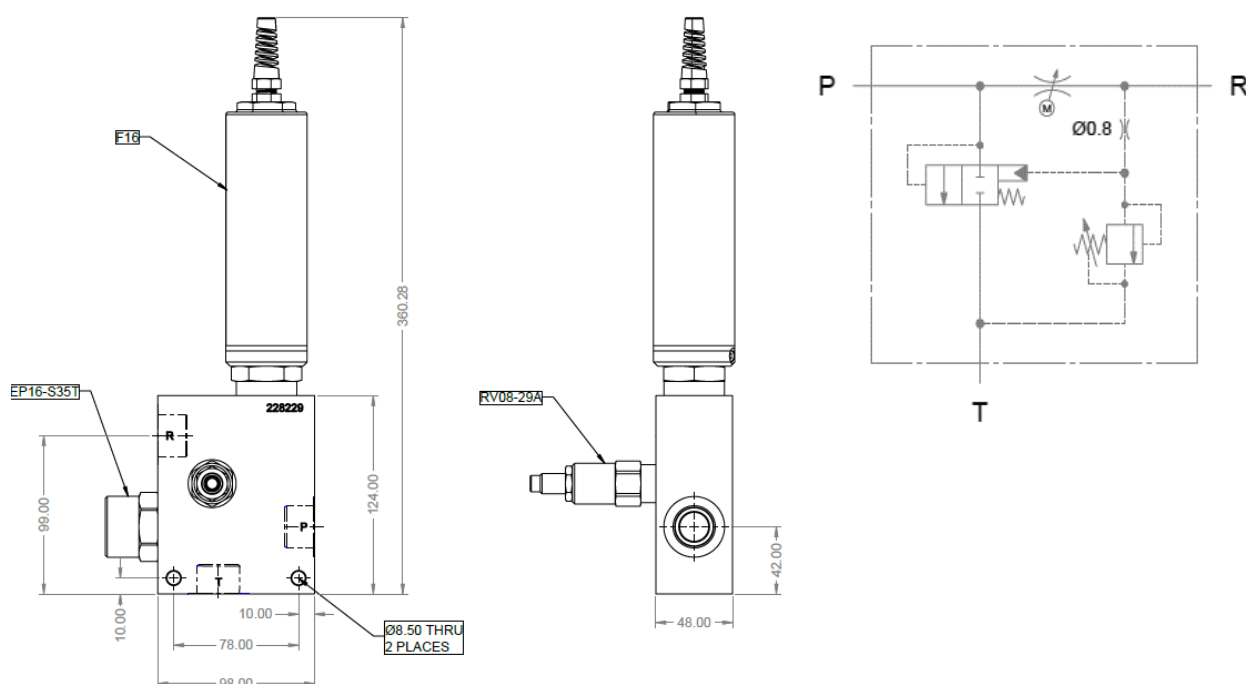
* Contact factory for alternative sizing and flow control timing

OP724

120 lpm Motorised Flow Control with Priority and relief function



Oilpath 120 lpm inlet Motorised Flow Control with Pressure Compensation by-pass style, with relief on regulated flow line. Source Motorised Flow Control Cartridge. 12 v or 24 volt system. Regulated flow adjustment range 0-110 lpm.



FEATURES

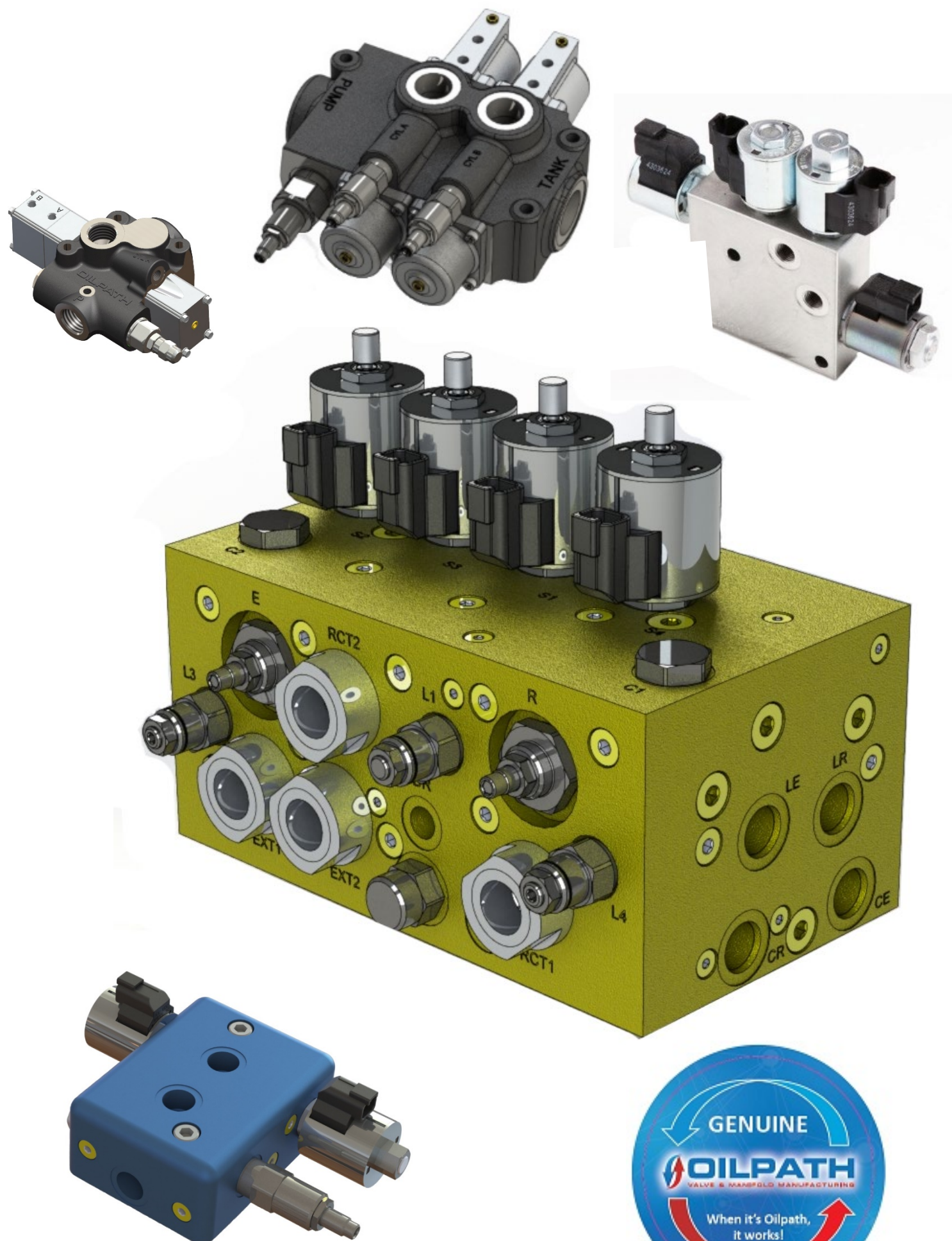
- Maximum working pressure..... Aluminium 210 bar (3000 psi)
- Regulated Flow adjustment.....0-110 lpm
- Flow control open to close time.....7 seconds
- Port sizes.....3/4" bspp

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile aluminium

Part No.	Description	List Price
72400012	120 lpm Motorised Flow Control with Priority and relief function, 7 second timing 12 volt	1,913
72400024	120 lpm Motorised Flow Control with Priority and relief function, 7 second timing 24 volt	1,913

* Contact factory for alternative sizing and flow control timing





Australian Authorised Distributor

**Stocking in excess of 1,200 HydraForce Line
items incl: cartridges, line bodies & electronics**

Phone 08 82774933

sales@oilpathhydraulics.com.au

Product Guide

**Hydraulic Cartridge Valves
Manifold Systems
Electronic Controls**





With a unique blend of customized design solutions and superior product performance, HydraForce is leading the way in manufacturing the highest quality hydraulic cartridge valves, manifolds and electro-hydraulic controls.

Our Vision

To be an independent provider of innovative technical solutions that can change the world

Our Mission

To create world wide customer delight by providing the highest quality products and the most responsive customer support in the world at a globally competitive cost

While custom design solutions are our specialty, HydraForce also provides many standard products. This Product Guide is a quick reference to the products available from HydraForce and its 120 stocking distributors. If you don't see what you need, contact HydraForce or your distributor for application support.

Hydraulic Cartridge Valves

HydraForce is the largest manufacturer of cartridge-style hydraulic valves in the world with a range of products that encompasses flow, directional and pressure controls, solenoid and electro-proportional options. Standard valves are grouped by category, with ISO graphic symbols, flow, and pressure ratings.



Multifunction Valves

HydraForce multifunction valves incorporate two or more hydraulic functions in a single valve, allowing the design of a lighter, more compact valve package.

HyPerformance™ Valves

Designed for pressures up to 350 bar (5075 psi), HyPerformance or H-series valves meet more rigorous performance testing standards than standard models.



High Quality, Precision Manufacturing

HydraForce uses the most advanced equipment and processes for machining, assembly, and product testing. By maintaining precise control of the fit and clearances in critical valve subassemblies, HydraForce is able to create high quality products that perform consistently. Precise procedures and state-of-the-art assembly equipment enable HydraForce to meet critical tolerances for more efficient hydraulic circuits.

Our equipment includes the following:

- Automated honing/bore-sizing equipment to 0.00005 tolerances
- Automated parts cleaning and assembly equipment

Product Qualification

HydraForce's product qualification policy includes fatigue and pressure testing to NFPA T2.6.1. Standard products are tested for at least one-million cycle capability. Other qualification testing can be done to meet specific customer requirements.



Manifold Systems

Optimizing the performance of your machine starts with creative hydraulic integrated circuits. Our design staff will collaborate with you and verify your design prior to manufacturing a prototype. Then we'll make any necessary refinements and engineer your product to meet your exact specifications. With proprietary innovations like our i-Design manifold tool, designing your hydraulic control schematic is easier than ever. The result is a performance- and configuration-optimized hydraulic solution that is designed exclusively for you.

Every HydraForce manifold is hydraulic function tested to a documented customer or product-specific test procedure. Manifolds produced at our U.S., U.K., and China facilities conform to the requirements of the ISO 9001 Certified Standard. HydraForce will mount customer specified fittings or other components not of our manufacture on request.

HydraForce can provide the following options for your custom hydraulic control system manifold:

- Steel, aluminum, cast or ductile iron manifold blocks
- Anodized or zinc plating for protection in severe environments
- Industry-common valve cavities
- Fittings, CETOP valves, and accessory components available
- “FastTrak” service for quick delivery of a working prototype
- i-Design hydraulic system design software available free of charge to qualified users

info.hydraforce.com/download/i-design



Electronic Controls

HydraForce is pleased to offer a full line of electronic vehicle control products integrating engine, transmission, and other machine functions into a common J1939 or ISO 11783 CAN data link control circuit.

These systems consist of rugged, field-proven components suitable for heavy-duty operating conditions. PWM digital signal logic maximizes efficiency, response, and signal integrity under harsh environmental conditions. Reliability has been proven through extensive testing, as well as years of real-world application experience.

This is a complete line of the most rugged, heavy-duty vehicle machine controllers, monitors, displays, and electrical connectors for motion control and integrated machine control applications in mobile, off-highway and material handling equipment.

www.hydraforce.com/electronics

- Reliable operation in the most demanding mobile equipment applications
- Operating temperatures from -40 to 85 °C (-40 to 185 °F)
- Chemical splash immunity
- Moisture resistance to IP67 specifications
- Fully resistant to EMI/RFI
- Vibration resistant to 8 G_{rms} (random) 24–200 Hz, 3-axis

INTEGR8

ENGINEERED HYDRAULIC CONTROL SOLUTIONS

INTEGR8

As an industry leader, HydraForce offers a unique series of innovative engineered hydraulic control solutions called INTEGR8. These solutions are designed to save engineering time and maximize efficiency. Specifically, they take the guesswork out for the most common hydraulic functions by providing engineered circuits featuring the best valve configurations. Now i-Design features a built-in library of INTEGR8 circuits to accelerate the design process.

All INTEGR8 circuits are 100% logic and function tested.

At HydraForce we believe that better performance comes from working together.



Our engineers and field representatives work with you to design your hydraulic control system. When you work with HydraForce, you can select from the broadest product range in the industry.

All HydraForce products meet global quality standards including ISO 9001, QS 9000. Every cartridge valve, manifold, and electrohydraulic control goes through rigorous testing and inspection to perform beyond industry standards.



Contact us for additional product information:

US: +1-847-793-2000
UK: +44-121-333-1800
China: +86-519-6988-1200



HydraForce Electronic Control Units

HydraForce offers a line of general-purpose CoDeSys™ programmable controllers that work well as stand-alone controllers or integrate with other CAN networked devices. These controllers are designed to withstand the environmental demands of mobile off-highway equipment applications. They feature flexible input and output configuration.

HydraForce Electronic Valve Drivers

HydraForce electronic valve drivers are available for a variety of electrohydraulic machine control functions. Whether you need simple closed-loop speed control, a fan control, or lift/lower, extend/retract, and dump controls, there is a HydraForce ExDR valve driver for your application. Vigorously tested and durable enough for mobile applications, and with SAE J1939 and CAN Open networking, these drivers fit into any system architecture.

Firmware Personalities

The ExDR drivers are available in multiple specialized personalities. These preprogrammed firmware choices are fully configurable using HF-Impulse, a free utility available for download from the HydraForce electronics portal.

- EVDR — General 1 or 2 coil proportional valve driver
- ETDR — Time-based driver useful for shift/clutch controls
- EFDR — Fan speed control with reversing feature
- ECDR — Fully configurable with user-developed function diagram built from preprogrammed and tested function blocks

ExDR-0101A

This single I/O driver features on-coil mounting, flexible input choices, and is configurable with the easy-to-use HF-Impulse software available for free download. It supports serial communication for configuration only. Personalities include EVDR/ETDR.

ExDR-0201A

With SAE J1939 and CAN Open networking capabilities, this proportional hydraulic valve driver accepts inputs from virtually any analog or CAN-capable input device. It provides closed-loop control of one or two proportional solenoids, and mounts on the coil with an integrated DT06-2S Deutsch™ connector. Personalities include EVDR/EFDR/ECDR.

ECDR-0203A

The ECDR-0203A features SAE J1939 and CAN Open networking capabilities, closed-loop control of one or two proportional solenoids, and three configurable analog or digital inputs. The ECDR firmware personality allows the user to build complex control schemes using preprogrammed and tested function blocks in a simple logic diagram.

ECDR-0506A

Like the ECDR-0203A, the ECDR-0506A also features SAE J1939 and CAN Open networking capabilities, and the ECDR firmware personality. The I/O includes four closed-loop and one open-loop solenoid control, and up to six configurable analog or digital inputs.

Displays

HydraForce offers operator display/input devices. These rugged units are programmable operator panels specifically designed for use with hydraulically powered mobile equipment. They offer the operator convenient and state-of-the-art control of hydraulic functions. The 4.3 or 7 inch (109/177 mm) displays feature 8 or 12 programmable soft keys, three hard keys, video input, programming tool, and CAN communications.

ECBP Electronic CAN Button Panels

HydraForce ECBP panels are CAN capable input devices that really simplify your vehicle control wiring. A handsome addition to any cab or control panel, these units feature 16 color LED lighting, momentary/on-off/on-off-on cam configurable action, and available custom etching. Banks of four through eight buttons are possible. HF-Impulse supports operation and configuration of the ECBP panels.

Sensors and Accessories

HydraForce extends machine system integration with pressure and temperature sensors, and all connectors and accessories necessary build complete machine control systems. HydraForce sensors allow machines to respond optimally to changing operating conditions of the system.

HF-Impulse Software

Available for free download from the HydraForce electronics portal, HF-Impulse is a complete support and configuration tool for HydraForce electronic products. Using this custom software, you can set operating parameters, update firmware, service deployed equipment, or build complex logic schemes without writing a single line of code. HF-Impulse is continually updated to support the growing line of HydraForce electronics.

Electronics

HydraForce electronic control units

Item no.	Model	Input/Output	CAN
4000350	ECU-0809	8/9	Yes
4000352	ECU-2415	24/15	Yes
4000356	ECU-2820	28/20	Yes
4000343	ECU-3233A (1 MB RAM)	32/33	Yes
4000344	ECU-3233B (3 MB RAM)	32/33	Yes

Drivers and controllers

Item no.	Model	Input/Output	CAN
4204800	EVDR-0101A	1/1	No
4204810	ETDR-0101A	1/1	No
4204700	EVDR-0201A	2/1	Yes
4204710	EFDR-0201A	2/1	Yes
4204740	ECDR-0201A	2/1	Yes
4208230	ECDR-0203A	2/3	Yes
4208560	ECDR-0506A	5/6	Yes

Display/operator input devices

Item no.	Model	Display size	Inputs	Outputs
4000401	A3F - Touch screen	109 mm (4.3 in)	4 analog/digital 1 video	3 digital
4000400	A3S	109 mm (4.3 in)	None	None
4000408	A6F - Touch screen	177 mm (7 in)	4 analog/digital 3 video	3 digital
4000407	A6S	177 mm (7 in)	1 video	None

ECBP electronic CAN button panels

Item no.	Description
4000384	ECBP-4, 4-Button CAN Rocker Switch Panel
4000385	ECBP-5, 5-Button CAN Rocker Switch Panel
4000386	ECBP-6, 6-Button CAN Rocker Switch Panel
4000387	ECBP-7, 7-Button CAN Rocker Switch Panel
4000388	ECBP-8, 8-Button CAN Rocker Switch Panel

Heavy-duty pressure sensors

Item no.	Voltage	Pressure rating
4000650	5 Vdc	0 to 34 bar (500 psi)
4000651	5 Vdc	0 to 103 bar (1500 psi)
4000652	5 Vdc	0 to 207 bar (3000 psi)
4000653	5 Vdc	0 to 345 bar (5000 psi)
4000654	5 Vdc	0 to 414 bar (6000 psi)
4000655	9 to 36 Vdc	0 to 34 bar (500 psi)
4000656	9 to 36 Vdc	0 to 103 bar (1500 psi)
4000657	9 to 36 Vdc	0 to 207 bar (3000 psi)
4000658	9 to 36 Vdc	0 to 345 bar (5000 psi)
4000659	9 to 36 Vdc	0 to 414 bar (6000 psi)

Thermistor temperature sensors

Item no.	Model	Temp range	Output signal
4206200	ERT-120	-40 to 150 °C (-40 to 300 °F)	436 to 5428 Ω

Refer to the HydraForce catalog for additional information and specifications. Complete technical information, including user manuals, are available on the HydraForce electronics portal at www.hydraforce.com/electronics.

Next Generation (G3) Cartridge Valves

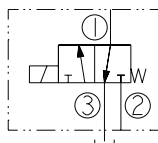
HydraForce has a complete range of control solutions for pilot control, diesel engine and powertrain systems, and transmissions. Fuel efficiency and emissions standards continue to drive the demand for more efficient, reliable powertrain systems. HydraForce meets the demand by providing the next generation of precise, customizable controls.

- Optimized actuator magnetic force
- Low current draw
- Zinc-nickel plated
- Maximized flow capacity
- IP69K ingress protection
- Low hysteresis
- Top-mounted connectors



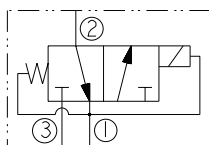
G3 Valves

Solenoid valve,
2-position, 3-way,
drop-in



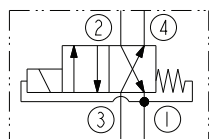
Model	Pressure bar (psi)	Flow lpm (gpm)
SV98-G38	45 (650)	30 (8)

Solenoid valve,
2-position, 3-way,
drop-in



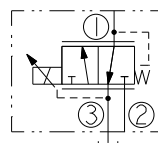
Model	Pressure bar (psi)	Flow lpm (gpm)
SV90-G39	45 (650)	30 (8)

Solenoid valve,
2-position, 4-way,
drop-in



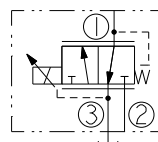
Model	Pressure bar (psi)	Flow lpm (gpm)
SV90-G40R	45 (650)	30 (8)

Proportional pressure
reducing/relieving
valve, drop-in



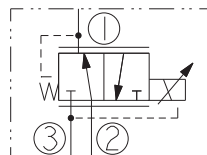
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR98-G33	45 (650)	4 (1)

Proportional pressure
reducing/relieving
valve, drop-in



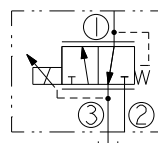
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR98-G35	45 (650)	6 (2)

Proportional pressure
reducing/relieving
valve, drop-in



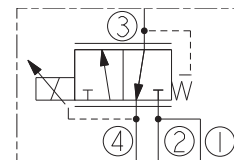
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR98-G37	45 (650)	18 (5)

Proportional pressure
reducing/relieving
valve, drop-in



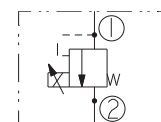
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR98-G38	35 (500)	30 (8)

Proportional pressure
reducing/relieving
valve, drop-in



Model	Pressure bar (psi)	Flow lpm (gpm)
TS90-G34	35 (500)	34 (9)
TS92-G34	35 (500)	60 (16)

Proportional pressure
relief valve, drop-in



Model	Pressure bar (psi)	Flow lpm (gpm)
TS98-G21	83 (1200)	6 (1.5)

HydraForce multifunction valves incorporate two or more functions into a single valve, allowing for the design of a lighter, more compact valve package. Multifunction valves reduce manifold size, number of ports, and machining costs, while increasing flow passage efficiency. The result is more responsive machine performance and efficient use of available horsepower.

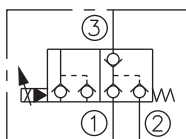
- Directional valves with isolated load-sense checks
- Solenoid valves with internal flow checks
- Solenoid valves with Integrated pressure relief
- Proportional flow controls with integrated pressure compensation
- Logic elements with built-in relief
- Logic elements with flow regulation
- Flow controls with adjustable pressure relief



Multifunction Valves

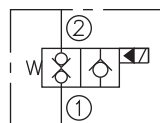
Solenoid valve, poppet type, normally closed, load sense port

US Pat. 7,921,880



Model	Pressure bar (psi)	Flow lpm (gpm)
SVCL10-30	240 (3500)	57 (15)

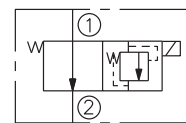
Solenoid valve, poppet type, normally closed, internal outlet flow check



Model	Pressure bar (psi)	Flow lpm (gpm)
SVCV08-20	207 (3000)	23 (6)

Solenoid valve, normally open, integral pressure relief

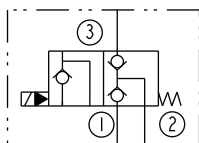
US Pat. 7,137,406



Model	Pressure bar (psi)	Flow lpm (gpm)
SVRV10-26	297 (4300)	76 (20)
SVRV12-26F	297 (4300)	189 (50)

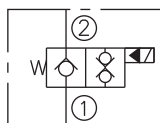
Solenoid valve, poppet type, normally open, load sense port

US Pat. 7,921,880



Model	Pressure bar (psi)	Flow lpm (gpm)
SVCL10-32	250 (3625)	57 (15)

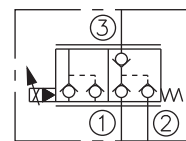
Solenoid valve, poppet type, normally open, internal outlet flow check



Model	Pressure bar (psi)	Flow lpm (gpm)
SVCV08-21	207 (3000)	23 (6)

Proportional flow control, normally closed, isolated load sense port

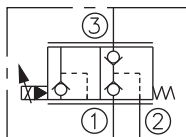
US Pat. 7,921,880



Model	Pressure bar (psi)	Flow lpm (gpm)
SPCL10-30	250 (3625)	57 (15)
SPCL16-30	250 (3625)	152 (40)

Proportional flow control, normally closed, load sense port

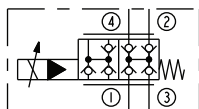
US Pat. 7,921,880



Model	Pressure bar (psi)	Flow lpm (gpm)
SPCL10-32	250 (3625)	57 (15)
SPCL16-32	250 (3625)	152 (40)

Proportional directional valve, 2-position, 4-way, normally closed, isolated load sense port

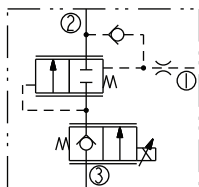
US Pat. 7,921,880



Model	Pressure bar (psi)	Flow lpm (gpm)
SPCL10-40	250 (3625)	132 (35)
SPCL16-40	250 (3625)	152 (40)

Proportional flow control valve with integral compensator

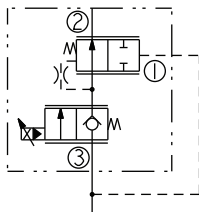
US Pat. 7,261,030



Model	Pressure bar (psi)	Flow lpm (gpm)
HSPEC10-30A	350 (5075)	35 (9)
HSPEC12-30A	350 (5075)	70 (18)
HSPEC16-30	350 (5075)	132 (35)

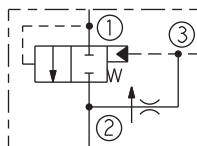
Proportional flow control valve with integral compensator

US Pat. 7,261,030



Model	Pressure bar (psi)	Flow lpm (gpm)
HSPEC10-34	350 (5075)	34 (9)
HSPEC12-34	350 (5075)	61 (16)

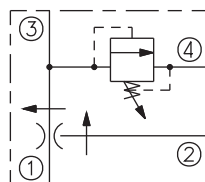
Logic element with flow regulator



Model	Pressure bar (psi)	Flow lpm (gpm)
EPFR58-35	345 (5000)	38 (10)
EPFR50-S35	345 (5000)	76 (20)
EPFR52-S35	345 (5000)	151 (40)
EPFR16-S35	240 (3500)	189 (50)

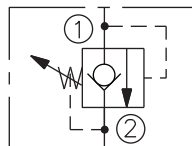
Flow control with adjustable pressure relief

US Pat. 7,063,100



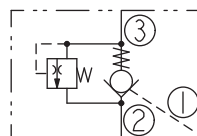
Model	Pressure bar (psi)	Flow lpm (gpm)
FRRV10-41F	207 (3000)	38 (10)
FRRV12-41F	207 (3000)	76 (20)

Relief valve, direct acting with anti-cavitation check



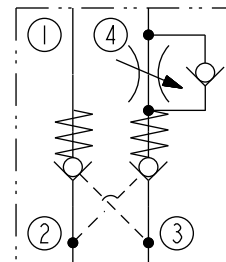
Model	Pressure bar (psi)	Flow lpm (gpm)
RVCV56-20	420 (6100)	175 (46)

Check, pilot to open, integrated thermal relief



Model	Pressure bar (psi)	Flow lpm (gpm)
PC10-38	240 (3500)	45 (12)

Dual PO check with adjustable flow control



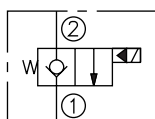
Model	Pressure bar (psi)	Flow lpm (gpm)
DCFC08-40	207 (3000)	19 (5)



- Continuous-duty coils with a wide range of voltages, terminations, and diode options
- Designed for mobile operating environments including low voltage, high and low temperatures, and exposed environmental conditions
- Industry common cavity sizes -07, -08, -10, -12, -16, -20, as well as drop-in-style construction
- Series E water/weather-resistant coils with integral connectors rated up to IP69K
- Manual override option on most models
- Integral position sensors available on some models

Solenoid Valves

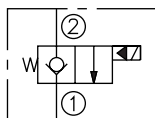
Solenoid valve, piloted poppet type, normally closed



Model	Pressure bar (psi)	Flow lpm (gpm)
SF08-20	345 (5000)	19 (5)

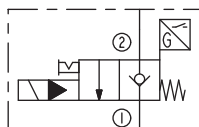
Solenoid valve, poppet type, normally closed

* available with position sensor



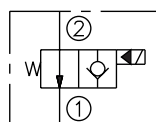
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-20	207 (3000)	23 (6)
SV08-20J	207 (3000)	23 (6)
HSV10-20	350 (5075)	76 (20)
SV10-20, SV10-P20A*	240 (3500)	57 (15)
HSV12-20	350 (5075)	114 (30)
SV12-20, SV12-P20A*	240 (3500)	114 (30)
SV16-20	240 (3500)	95 (25)

Solenoid valve, poppet type, normally closed, integral position sensor



Model	Pressure bar (psi)	Flow lpm (gpm)
SV58-P20A	345 (5000)	19 (5)

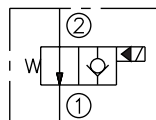
Solenoid valve, piloted poppet type, normally open



Model	Pressure bar (psi)	Flow lpm (gpm)
SF08-21	345 (5000)	30 (8)

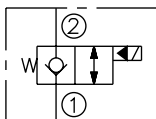
Solenoid valve, poppet type, normally open

* available with position sensor



Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-21	207 (3000)	30 (8)
HSV10-21	350 (5075)	76 (20)
SV10-21, SV10-P21A*	207 (3000)	68 (18)
SV12-21, SV12-P21A*	240 (3500)	114 (30)
HSV12-21	350 (5075)	114 (30)
SV16-21	207 (3000)	132 (35)

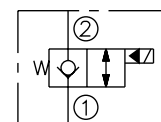
Solenoid valve, piloted poppet type, normally closed, bidirectional



Model	Pressure bar (psi)	Flow lpm (gpm)
SF08-22	345 (5000)	23 (6)
SF20-22	345 (5000)	303 (80)

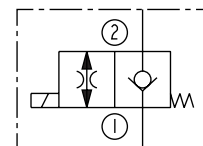
Solenoid valve, poppet type, normally closed, bidirectional

* available with position sensor



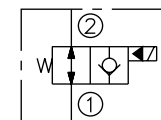
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-22	207 (3000)	27 (7)
HSV10-22	350 (5075)	76 (20)
SV10-22, SV10-P22A*	240 (3500)	57 (15)
HSV12-22	350 (5075)	114 (30)
SV12-22, SV12-P22A*	240 (3500)	114 (30)
SV16-22, SV16-P22A*	240 (3500)	151 (40)

Solenoid valve, needle type, normally closed



Model	Pressure bar (psi)	Flow lpm (gpm)
SL08-22	207 (3000)	1.5 (0.4)

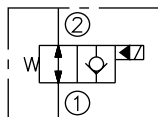
Solenoid valve, piloted poppet type, normally open, bidirectional



Model	Pressure bar (psi)	Flow lpm (gpm)
SF08-23	345 (5000)	30 (8)
SF20-23	345 (5000)	303 (80)

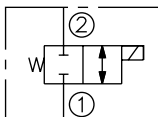
Solenoid valve, poppet type, normally open, bidirectional

* available with position sensor



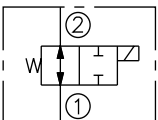
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-23	207 (3000)	30 (8)
HSV10-23	350 (5075)	76 (20)
SV10-23, SV10-P23A*	207 (3000)	68 (18)
HSV12-23	350 (5075)	114 (30)
SV12-23, SV12-P23A*	240 (3500)	114 (30)
SV16-23	207 (3000)	132 (35)

Solenoid valve, spool type, normally closed, bidirectional



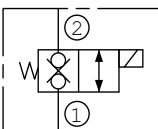
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-24	207 (3000)	17 (4)
HSV10-24	350 (5075)	30 (8)
SV10-24	207 (3000)	38 (10)
SV12-24	240 (3500)	76 (20)

Solenoid valve, spool type, normally open, bidirectional



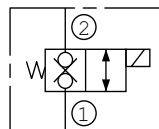
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-25	207 (3000)	10 (3)
HSV10-25	350 (5075)	30 (8)
SV10-25	207 (3000)	22 (6)
SV12-25	240 (3500)	76 (20)

Solenoid valve, blocking, normally closed, low flow



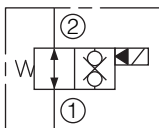
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-26	207 (3000)	1.9 (0.5)
SV38-26	207 (3000)	3.4 (0.9)

Solenoid valve, blocking, normally closed, bidirectional



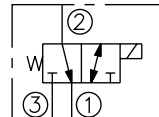
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-28	207 (3000)	11 (3)
HSV10-28	350 (5075)	76 (20)
SV10-28	240 (3500)	76 (20)
HSV12-28	350 (5075)	114 (30)
SV12-28	240 (3500)	114 (30)
SV38-28	207 (3000)	19 (5)

Solenoid valve, poppet type, normally open



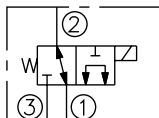
Model	Pressure bar (psi)	Flow lpm (gpm)
HSV10-29	350 (5075)	76 (20)
SV10-29	240 (3500)	76 (20)
HSV12-29	350 (5075)	114 (30)
SV12-29	240 (3500)	114 (30)

Solenoid valve, 2-position, 3-way



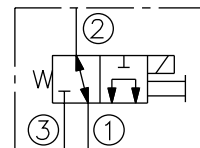
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-30	207 (3000)	15 (4)
SV38-30	207 (3000)	18 (5)
SV58-30	345 (5000)	15 (4)

Solenoid valve, 2-position, 3-way



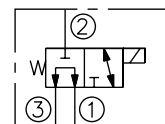
Model	Pressure bar (psi)	Flow lpm (gpm)
SV07-31	207 (3000)	6 (2)
SV08-31	207 (3000)	11 (3)
SV10-31	207 (3000)	22 (6)
SV12-31	240 (3500)	60 (16)

Solenoid valve, 2-position, 3-way



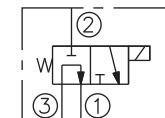
Model	Pressure bar (psi)	Flow lpm (gpm)
SV38-31J	207 (3000)	11 (3)

Solenoid valve, 2-position, 3-way



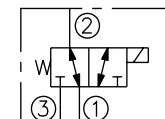
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-33	207 (3000)	11 (3)
SV12-33	240 (3500)	60 (16)

Solenoid valve, 2-position, 3-way



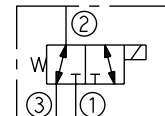
Model	Pressure bar (psi)	Flow lpm (gpm)
SV10-33	207 (3000)	19 (5)

Solenoid valve, 2-position, 3-way



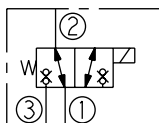
Model	Pressure bar (psi)	Flow lpm (gpm)
SV07-34	207 (3000)	13 (3)
SV10-34	207 (3000)	23 (6)
SV12-34	240 (3500)	60 (16)

Solenoid valve, 2-position, 3-way



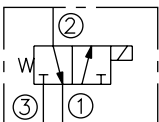
Model	Pressure bar (psi)	Flow lpm (gpm)
SV07-35	207 (3000)	11 (3)
SV08-35	207 (3000)	11 (3)

Solenoid valve, poppet type, normally closed, internally piloted, high flow



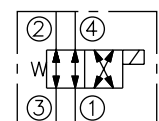
Model	Pressure bar (psi)	Flow lpm (gpm)
SV38-38	207 (3000)	11 (3)

Solenoid valve, 2-position, 3-way, drop-in



Model	Pressure bar (psi)	Flow lpm (gpm)
SV98-T39	45 (650)	30 (8)

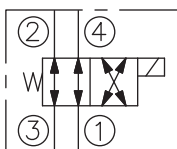
Solenoid directional valve, 2-position, 4-way, open transition



* available with position sensor

Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-40	207 (3000)	11 (3)
SV10-40, SV10-P40*	207 (3000)	23 (6)
SV58-40	345 (5000)	11 (3)

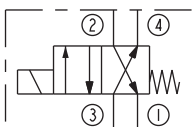
Solenoid directional valve, 2-position, 4-way, closed transition



* available with position sensor

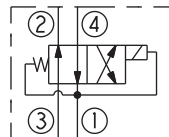
Model	Pressure bar (psi)	Flow lpm (gpm)
SV10-40A, SV10-P40A*	207 (3000)	38 (10)

Solenoid directional valve, 2-position, 4-way, open transition



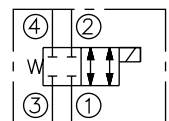
Model	Pressure bar (psi)	Flow lpm (gpm)
HSV10-40R	350 (5075)	23 (6)
SV12-40R	240 (3500)	60 (16)

Solenoid directional valve, 2-position, 4-way, drop-in



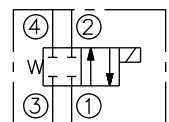
Model	Pressure bar (psi)	Flow lpm (gpm)
SV98-T40	30 (435)	30 (8)

Solenoid directional valve, 2-position, 4-way, normally closed



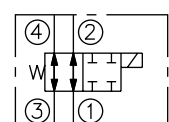
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-41	207 (3000)	13 (3)
SV10-41	207 (3000)	26 (7)
SV58-41	345 (5000)	26 (7)

Solenoid directional valve, 2-position, 4-way, normally closed



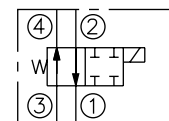
Model	Pressure bar (psi)	Flow lpm (gpm)
SV12-41	240 (3500)	60 (16)

Solenoid directional valve, 2-position, 4-way



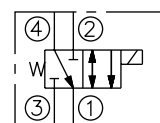
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-42	207 (3000)	11 (3)
SV10-42	207 (3000)	23 (6)

Solenoid directional valve, 2-position, 4-way



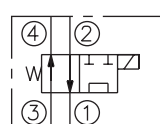
Model	Pressure bar (psi)	Flow lpm (gpm)
SV12-42	240 (3500)	60 (16)

Solenoid directional valve, 2-position, 4-way



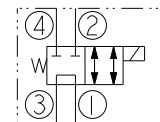
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-43	207 (3000)	11 (3)
SV10-43	207 (3000)	22 (6)

Solenoid directional valve, 2-position, 4-way



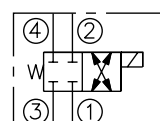
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-44	207 (3000)	11 (3)
SV10-44	207 (3000)	22 (6)

Solenoid valve, 4-way, 2-position, spool type



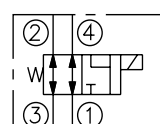
Model	Pressure bar (psi)	Flow lpm (gpm)
HSV10-44R	350 (5075)	23 (6)

Solenoid directional valve, 2-position, 4-way



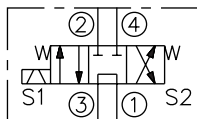
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-45	207 (3000)	11 (3)

Solenoid directional valve, 2-position, 4-way



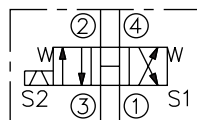
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-46	207 (3000)	11 (3)

Solenoid directional valve, 3-position, 4-way, tandem center



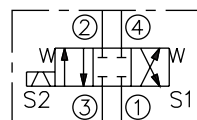
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-47A	207 (3000)	11 (3)
SV10-47A	240 (3500)	19 (5)

Solenoid directional valve, 3-position, 4-way, open center



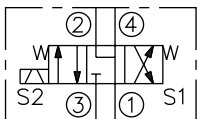
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-47B	207 (3000)	11 (3)
SV10-47B	240 (3500)	23 (6)

Solenoid directional valve, 3-position, 4-way, closed center



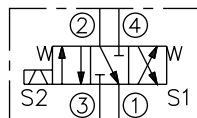
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-47C	207 (3000)	11 (3)
HSV10-47C	350 (5075)	38 (10)
SV10-47C	240 (3500)	23 (6)
HSV12-47C	350 (5075)	57 (15)

Solenoid directional valve, 3-position, 4-way, motor center



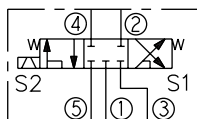
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-47D	207 (3000)	11 (3)
HSV10-47D	350 (5075)	34 (9)
SV10-47D	240 (3500)	23 (6)

Solenoid directional valve, 3-position, 4-way



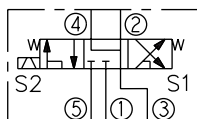
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-47E	207 (3000)	11 (3)
SV10-47E	250 (3625)	30 (8)

Solenoid directional valve, 3-position, 5-way, closed center, load sense port



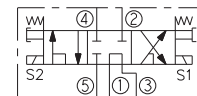
Model	Pressure bar (psi)	Flow lpm (gpm)
SV10-57C	250 (3625)	20 (5)

Solenoid directional valve, 3-position, 5-way, motor center, load sense port



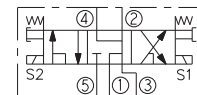
Model	Pressure bar (psi)	Flow lpm (gpm)
SV10-57D	250 (3625)	20 (5)

Solenoid directional valve, 3-position, 5-way, closed center, brake release port



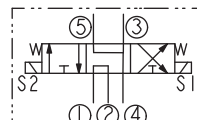
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-58C	207 (3000)	13 (3)
SV10-58C	250 (3625)	30 (8)

Solenoid directional valve, 3-position, 5-way, motor center, brake release port



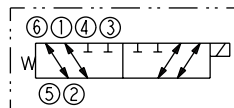
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-58D	240 (3500)	13 (4)
SV10-58D	250 (3625)	30 (8)

Solenoid directional valve, 3-position, 5-way, motor center, power beyond port



Model	Pressure bar (psi)	Flow lpm (gpm)
SV10-59D	207 (3000)	15 (4)

Solenoid selector valve, 2-position, 6-way



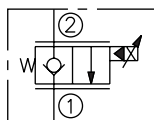
Model	Pressure bar (psi)	Flow lpm (gpm)
SV12-60	240 (3500)	45 (12)



- Designed for reliability in mobile machinery applications and exposed environmental conditions
- Excellent linearity and low hysteresis
- Hardened precision spools and cages for long life
- Industry common cavity sizes enable interchangeability with non-proportional valves
- Drop-in style, sealed, proportional clutch actuation, and piloting valves
- Series E water/weather-resistant coils with integral connectors rated up to IP69K
- Patented high strength solenoid tube for all 3-position HSP valves

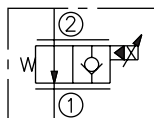
Electro-proportional Valves

Proportional flow control, poppet type, normally closed



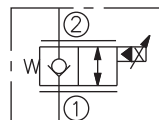
Model	Pressure bar (psi)	Flow lpm (gpm)
SP08-20	207 (3000)	22 (6)
SP08-20A	207 (3000)	30 (8)
HSP10-20	350 (5075)	53 (14)
SP10-20	250 (3625)	68 (18)
HSP12-20	350 (5075)	84 (22)
SP12-20	250 (3625)	100 (26)
HSP16-20	350 (5075)	265 (70)
SP16-20	250 (3625)	265 (70)

Proportional flow control, poppet type, normally open



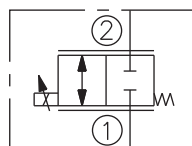
Model	Pressure bar (psi)	Flow lpm (gpm)
SP08-21	207 (3000)	23 (6)
HSP10-21	350 (5075)	53 (14)
SP10-21	250 (3625)	61 (16)
SP12-21	250 (3625)	200 (53)
HSP16-21	350 (5075)	95 (25)
SP16-21	250 (3625)	265 (70)

Proportional flow control, spool type, normally closed, bidirectional



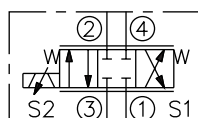
Model	Pressure bar (psi)	Flow lpm (gpm)
SP08-22	207 (3000)	30 (8)

Proportional flow control, spool type, normally closed, bidirectional



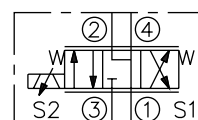
Model	Pressure bar (psi)	Flow lpm (gpm)
HSP08-24	350 (5075)	19 (5)
SP08-24	207 (3000)	11 (3)
SP10-24	207 (3000)	27 (7)

Proportional directional control, 3-position, 4-way, closed center



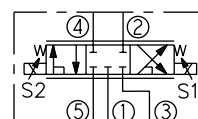
Model	Pressure bar (psi)	Flow lpm (gpm)
SP08-47C	240 (3500)	11 (3)
*HSP10-47C	350 (5075)	33 (9)
SP10-47C	248 (3600)	22 (6)
*HSP12-47C	350 (5075)	56 (15)
SP08-47CL	240 (3500)	8 (2)

Proportional directional control, 3-position, 4-way, motor center



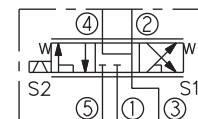
Model	Pressure bar (psi)	Flow lpm (gpm)
SP08-47D	240 (3500)	11 (3)
*HSP10-47D	350 (5075)	35 (9)
SP10-47D	207 (3000)	22 (6)
*HSP12-47D	350 (5075)	56 (15)
SP08-47DL	240 (3500)	8 (2)

Proportional directional valve, 3-position, 5-way, closed center, load sense port



Model	Pressure bar (psi)	Flow lpm (gpm)
SP10-57C	250 (3625)	23 (6)

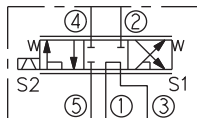
Proportional directional valve, 3-position, 5-way, motor center, load sense port



Model	Pressure bar (psi)	Flow lpm (gpm)
SP10-57D	250 (3625)	23 (6)
SP08-57D	240 (3500)	10 (3)

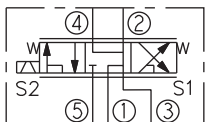
* US Pat. 8,253,063

Proportional directional valve, 3-position, 5-way, closed center, brake release port



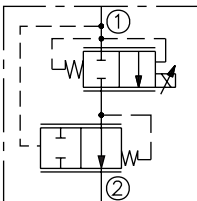
Model	Pressure bar (psi)	Flow lpm (gpm)
SP10-58C	250 (3625)	23 (6)

Proportional directional valve, 3-position, 5-way, motor center, load sense port, brake release



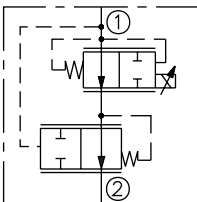
Model	Pressure bar (psi)	Flow lpm (gpm)
SP10-58D	250 (3625)	23 (6)
SP08-58D	240 (3500)	15 (4)

Pressure-compensated proportional flow control valve, normally closed



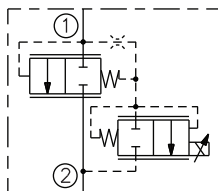
Model	Pressure bar (psi)	Flow lpm (gpm)
HPV12-20	350 (5075)	68 (18)
PV72-20	240 (3500)	64 (17)

Pressure-compensated proportional flow control valve, normally open



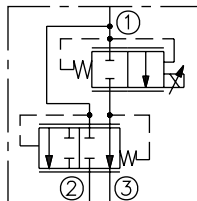
Model	Pressure bar (psi)	Flow lpm (gpm)
HPV12-21	350 (5075)	61 (16)
PV72-21	240 (3500)	56 (15)

Proportional flow control, normally closed



Model	Pressure bar (psi)	Flow lpm (gpm)
PV16-23	240 (3500)	170 (45)

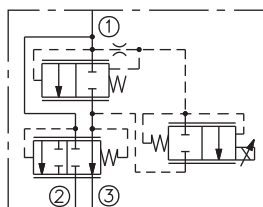
Proportional flow control, normally closed, priority bypass



Model	Pressure bar (psi)	Flow lpm (gpm)
PV08-30	240 (3500)	23 (6)
HPV12-30	350 (5075)	76 (20)
HPV16-30	350 (5075)	151 (40)
PV70-30	240 (3500)	30 (8)
PV72-30	240 (3500)	114 (30)
PV76-30A	240 (3500)	95 (25)

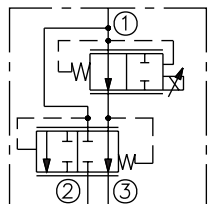
Proportional flow control, 2-stage, normally closed, priority bypass

US Pat. 6,966,329



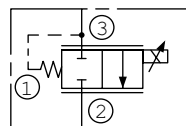
Model	Pressure bar (psi)	Flow lpm (gpm)
PV42-M30	240 (3500)	190 (50)

Proportional flow control, normally open, priority bypass



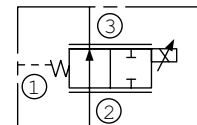
Model	Pressure bar (psi)	Flow lpm (gpm)
HPV12-31	350 (5075)	76 (20)
HPV16-31	350 (5075)	151 (40)
PV70-31	240 (3500)	50 (13)
PV72-31	240 (3500)	114 (30)

Proportional flow control, normally closed



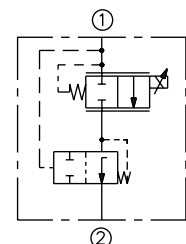
Model	Pressure bar (psi)	Flow lpm (gpm)
PV70-33	207 (3000)	30 (8)
PV72-33	240 (3500)	75 (20)

Proportional flow control, normally open



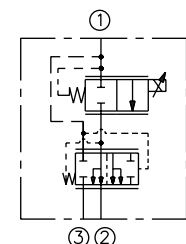
Model	Pressure bar (psi)	Flow lpm (gpm)
PV70-35	207 (3000)	30 (8)
PV72-35	207 (3000)	75 (20)

Proportional flow regulator, normally closed



Model	Pressure bar (psi)	Flow lpm (gpm)
PFR70-33x-E	207 (3000)	30 (8)
PFR72-33x-L	207 (3000)	60 (16)

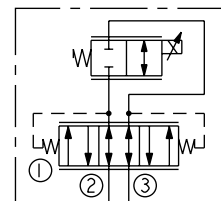
Proportional flow regulator, normally closed, priority bypass



Model	Pressure bar (psi)	Flow lpm (gpm)
PFR70-33x-F	207 (3000)	30 (8)
PFR70-33x-J	207 (3000)	30 (8)
PFR72-33x-J	207 (3000)	60 (16)

Pressure compensated proportional flow control, normally closed

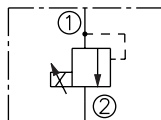
US Pat. 6,167,906



Model	Pressure bar (psi)	Flow lpm (gpm)
ZL70-30	240 (3500)	20 (5)

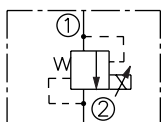
* US Pat. 8,253,063

Proportional pressure control valve, relief, increasing pressure with current



Model	Pressure bar (psi)	Flow lpm (gpm)
TS08-20	35 (500)	4 (1)
TS38-20	248 (3600)	11 (3)
TS58-20	345 (5000)	8 (2)

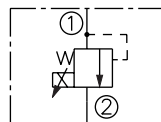
Proportional pressure control valve, relief, decreasing pressure with current



US Pat. 6,267,350

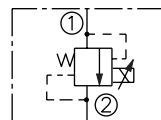
Model	Pressure bar (psi)	Flow lpm (gpm)
TS38-21	240 (3500)	1.1 (0.3)
TS58-21F	393 (5700)	1.9 (0.5)

Proportional pressure control valve, pilot operated, relief, increasing pressure with current



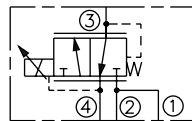
Model	Pressure bar (psi)	Flow lpm (gpm)
TS10-26	240 (3500)	95 (25)
TS12-26	240 (3500)	189 (50)

Proportional pressure control valve, pilot operated, relief, decreasing pressure with current



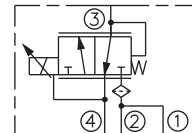
Model	Pressure bar (psi)	Flow lpm (gpm)
TS08-27	240 (3500)	25 (6)
TS10-27	275 (4000)	76 (20)
TS12-27	240 (3500)	186 (49)

Proportional pressure reducing/relieving valve, pilot operated



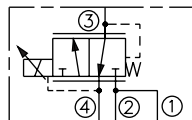
Model	Pressure bar (psi)	Flow lpm (gpm)
TS98-30	24 (350)	30 (8)

Proportional pressure reducing/relieving valve, pilot operated



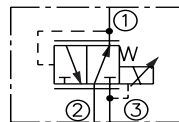
Model	Pressure bar (psi)	Flow lpm (gpm)
TS90-31	207 (3000)	38 (10)

Proportional pressure reducing/relieving valve, pilot operated, drop-in



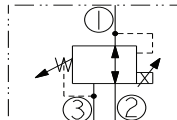
Model	Pressure bar (psi)	Flow lpm (gpm)
TS98-T34	30 (435)	30 (8)

Proportional pressure reducing/relieving valve, pilot operated



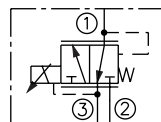
Model	Pressure bar (psi)	Flow lpm (gpm)
TS10-36	240 (3500)	57 (15)
TS12-36	275 (4000)	189 (50)

Proportional pressure reducing/relieving valve, pilot operated, decreasing pressure with current



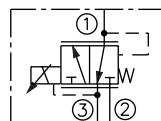
Model	Pressure bar (psi)	Flow lpm (gpm)
TS12-37F	276 (4000)	190 (50)

Proportional pressure reducing/relieving valve



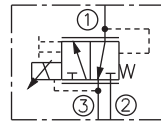
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR08-33	207 (3000)	4 (1)

Proportional pressure reducing/relieving valve, drop-in



Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR98-T33	240 (3500)	4 (1)

Proportional pressure reducing/relieving valve, drop-in



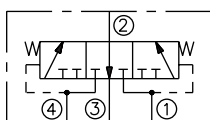
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR98-T35	103 (1500)	6 (2)
EHPR98-T38	240 (3500)	19 (5)
EHPR98-T38B	240 (3500)	19 (5)



- Industry-common cavity sizes
-04, -08, -10, -12, -16, -20 and -42
- Hydraulically piloted or manually-operated directional and logic valves enable circuit flexibility and performance optimization
- Proportional, piloted 3-position, 4-way directional valves for flow rates up to 170 lpm (45 gpm)
- Hardened precision seats, spools and cages for long life and low leakage

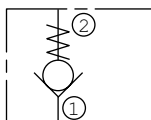
Directional Valves

Brake shuttle



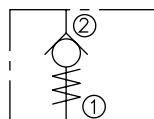
Model	Pressure bar (psi)	Flow lpm (gpm)
BV10-40	240 (3500)	8 (2)
HBV10-40	345 (5000)	8 (2)

Check valve



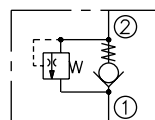
Model	Pressure bar (psi)	Flow lpm (gpm)
CV04-20	240 (3500)	5 (1.5)
CV04-B20	240 (3500)	5 (1.3)
HCV06-20	350 (5075)	19 (5)
CV08-20	240 (3500)	30 (8)
HCV08-20	350 (5075)	30 (8)
CV10-20	240 (3500)	75 (20)
HCV10-20	350 (5075)	76 (20)
CV50-20	345 (5000)	57 (15)
CV12-20	240 (3500)	95 (25)
HCV12-20	350 (5075)	95 (25)
CV16-20	240 (3500)	151 (40)
HCV16-20	350 (5075)	151 (40)
CV42-M20	240 (3500)	378 (100)
HCV42-M20	350 (5075)	303 (80)

Check valve



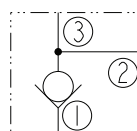
Model	Pressure bar (psi)	Flow lpm (gpm)
CV08-21	240 (3500)	30 (8)
CV12-21	240 (3500)	114 (30)
CV10-24	240 (3500)	57 (15)

Check valve



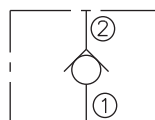
Model	Pressure bar (psi)	Flow lpm (gpm)
CV10-28	240 (3500)	45 (12)

Check valve



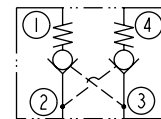
Model	Pressure bar (psi)	Flow lpm (gpm)
HCV16-30	350 (5075)	151 (40)

Check valve disk



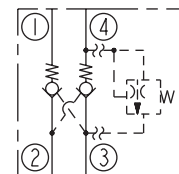
Model	Pressure bar (psi)	Flow lpm (gpm)
CVD08	250 (3625)	1.9 (0.5)
CVD10	250 (3625)	1.9 (0.5)

Pilot operated check valve, dual



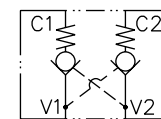
Model	Pressure bar (psi)	Flow lpm (gpm)
DC08-40	240 (3500)	19 (5)

Pilot operated check valve, dual, optional thermal relief



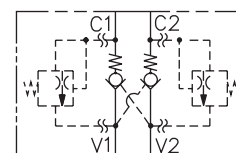
Model	Pressure bar (psi)	Flow lpm (gpm)
DC10-40	240 (3500)	30 (8)

Pilot operated check valve, dual cartridges in manifold



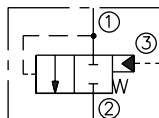
Model	Pressure bar (psi)	Flow lpm (gpm)
DCV08	240 (3500)	30 (8)
HDCV16	350 (5075)	151 (40)

Pilot operated check valve with thermal relief, dual cartridges in manifold



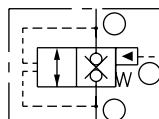
Model	Pressure bar (psi)	Flow lpm (gpm)
DCV10	240 (3500)	76 (20)

Logic element, spool type, 2-position, 2-way, externally piloted



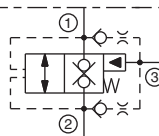
Model	Pressure bar (psi)	Flow lpm (gpm)
EP08-S35	345 (5000)	38 (10)
EP10-S35	345 (5000)	76 (20)
EP12-S35	345 (5000)	151 (40)
EP16-S35	240 (3500)	189 (50)
HEP16-S35	350 (5075)	190 (50)
EP20-S35	345 (5000)	379 (100)
HEP42-S35	350 (5075)	379 (100)

Logic element, poppet type, 2-position, 2-way, externally piloted



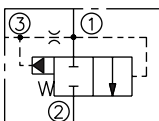
Model	Pressure bar (psi)	Flow lpm (gpm)
EP10-S38	350 (5075)	114 (30)
EP20-S38	240 (3500)	303 (80)
HEP42-S38	350 (5075)	284 (75)

Logic element, poppet type, 2-position, 2-way, externally piloted



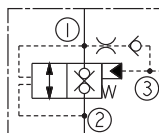
Model	Pressure bar (psi)	Flow lpm (gpm)
HEP16-S39	350 (5075)	190 (50)
EP20-S39	240 (3500)	285 (75)
HEP42-S39	350 (5075)	284 (75)

Logic element, spool type, vented



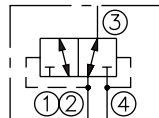
Model	Pressure bar (psi)	Flow lpm (gpm)
EV58-S34	345 (5000)	38 (10)
EV10-S34	345 (5000)	76 (20)
EV12-S34	345 (5000)	151 (40)
EV16-S34	240 (3500)	189 (50)
HEV16-S34	350 (5075)	190 (50)
EV20-S34	345 (5000)	379 (100)
HEV42-S34	350 (5075)	379 (100)

Logic element, poppet type, vent to open



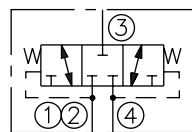
Model	Pressure bar (psi)	Flow lpm (gpm)
HEV12-S38	350 (5075)	114 (30)

Low side (hot oil) shuttle valve, springless



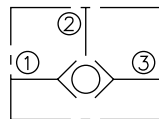
Model	Pressure bar (psi)	Flow lpm (gpm)
HS10-42	207 (3000)	38 (10)
HS50-42	207 (3000)	38 (10)
HS52-42	345 (5000)	45 (12)

Low side (hot oil) shuttle valve



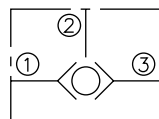
Model	Pressure bar (psi)	Flow lpm (gpm)
HS50-43	345 (5000)	132 (35)
HS52-43	345 (5000)	113 (30)

Load shuttle, ball type, down-hole mount



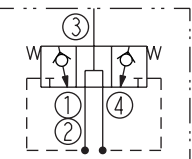
Model	Pressure bar (psi)	Flow lpm (gpm)
LS04-B30	240 (3500)	5 (1.3)
HLS06-B30	350 (5075)	8 (2)

Load shuttle, ball type



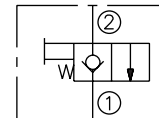
Model	Pressure bar (psi)	Flow lpm (gpm)
HLS06-30	350 (5075)	8 (2)
LS08-30	240 (3500)	19 (5)
LS10-30	240 (3500)	30 (8)
LS50-30	345 (5000)	30 (8)

Load shuttle, inverted



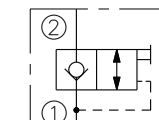
Model	Pressure bar (psi)	Flow lpm (gpm)
LS10-41	240 (3500)	15 (4)

Manual 2-position, 2-way valve, pull to open, spring return



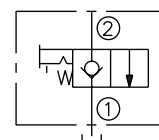
Model	Pressure bar (psi)	Flow lpm (gpm)
MP08-20	207 (3000)	53 (14)
MP10-20	207 (3000)	57 (15)

Manual 2-position, 2-way valve, pull to open, push to close



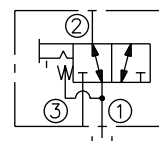
Model	Pressure bar (psi)	Flow lpm (gpm)
MP10-21	207 (3000)	57 (15)

Manual 2-position, 2-way valve, pull to open, with lock



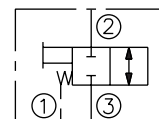
Model	Pressure bar (psi)	Flow lpm (gpm)
MP10-22	207 (3000)	57 (15)

Manual 2-position, 3-way valve, pull to shift, blocked transition



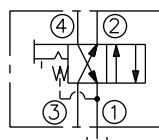
Model	Pressure bar (psi)	Flow lpm (gpm)
MP08-30	240 (3500)	25 (7)
MP58-30	345 (5000)	25 (7)

Manual 2-position, 2-way valve, pull to open, spring return, vented spring



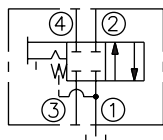
Model	Pressure bar (psi)	Flow lpm (gpm)
MP08-34	240 (3500)	38 (10)

Manual 2-position, 4-way valve, pull to shift, spring return, open transition



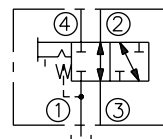
Model	Pressure bar (psi)	Flow lpm (gpm)
MP08-40	240 (3500)	12 (3)
MP10-40	207 (3000)	22 (6)

Manual 2-position, 4-way valve, pull to shift, spring return, closed transition



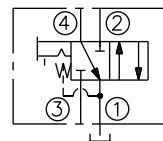
Model	Pressure bar (psi)	Flow lpm (gpm)
MP08-41	240 (3500)	12 (3)
MP10-41	207 (3000)	12 (3)

Manual 2-position, 4-way valve, pull to shift, spring return, closed transition



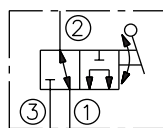
Model	Pressure bar (psi)	Flow lpm (gpm)
MP10-42	207 (3000)	12 (3)

Manual 2-position, 4-way valve, pull to shift, spring return, open transition



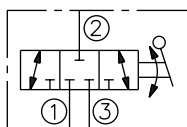
Model	Pressure bar (psi)	Flow lpm (gpm)
MP10-43	207 (3000)	12 (3)

Manual rotary, 2-position, 3-way valve, blocked transition



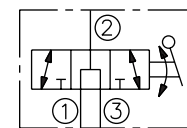
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-31	240 (3500)	38 (10)

Manual rotary, 3-position, 3-way valve, closed center



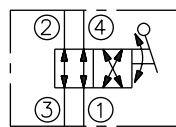
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-37A	240 (3500)	38 (10)

Manual rotary, 3-position, 3-way valve, open center



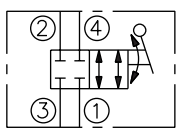
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-37B	240 (3500)	38 (10)

Manual rotary, 2-position, 4-way valve, blocked transition



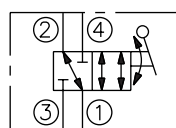
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-40	240 (3500)	11 (3)

Manual rotary, 2-position, 4-way valve, blocked transition



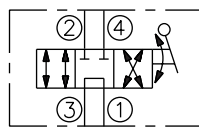
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-41	240 (3500)	11 (3)

Manual rotary, 2-position, 4-way valve, open transition, port 4 blocked



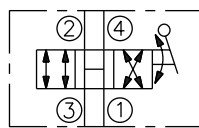
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-43	240 (3500)	11 (3)

Manual rotary, 3-position, 4-way valve, tandem center



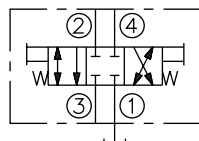
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47A	240 (3500)	11 (3)

Manual rotary, 3-position, 4-way valve, open center



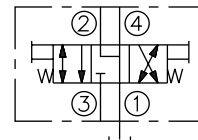
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47B	240 (3500)	11 (3)

Manual rotary, 3-position, 4-way valve, closed center



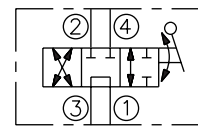
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47C	240 (3500)	11 (3)

Manual rotary, 3-position, 4-way valve, motor center



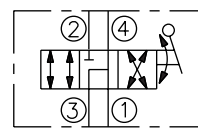
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47D	240 (3500)	11 (3)

Manual rotary, 3-position, 4-way valve, tandem center



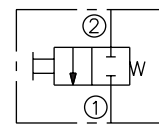
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47F	240 (3500)	11 (3)

Manual rotary, 3-position, 4-way valve, motor center



Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47G	240 (3500)	11 (3)

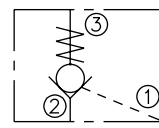
Manual valve, push to open



Model	Pressure bar (psi)	Flow lpm (gpm)
MV06-20	240 (3500)	115 (30)
MV08-22	207 (3000)	38 (10)

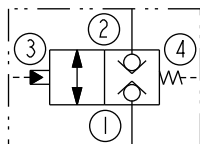
Check, pilot to open

see catalog for pilot ratio



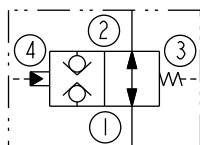
Model	Pressure bar (psi)	Flow lpm (gpm)
PC08-30	240 (3500)	26 (7)
HPC08-30	350 (5075)	30 (8)
PC10-30	240 (3500)	26 (7)
PC10-32	240 (3500)	30 (8)

Piloted directional element, balanced poppet, bidirectional, normally closed



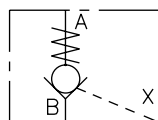
Model	Pressure bar (psi)	Flow lpm (gpm)
HPC42-J48	350 (5075)	380 (100)

Piloted directional element, balanced poppet, bidirectional, normally open



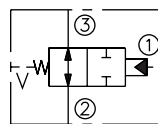
Model	Pressure bar (psi)	Flow lpm (gpm)
HPC42-J49	350 (5075)	380 (100)

Check, pilot to open



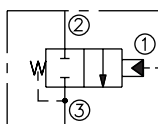
Model	Pressure bar (psi)	Flow lpm (gpm)
PCV10	240 (3500)	60 (16)
HPCV16	350 (5075)	151 (40)
PCV16	240 (3500)	151 (40)

Spool valve, piloted, 2-position, 2-way, normally open, external vent



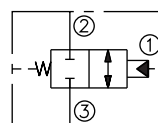
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-30	240 (3500)	38 (10)
PD12-30	240 (3500)	113 (30)

Spool valve, piloted, 2-position, 2-way, normally closed, internal vent



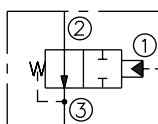
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-32	240 (3500)	38 (10)
PD12-32	240 (3500)	113 (30)

Spool valve, piloted, 2-position, 2-way, normally closed, external vent



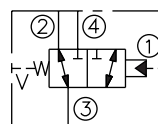
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-34	240 (3500)	38 (10)
PD12-34	240 (3500)	113 (30)

Spool valve, piloted, 2-position, 2-way, normally closed, internal vent



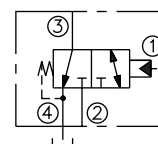
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-35	240 (3500)	38 (10)
PD12-35	240 (3500)	113 (30)

Spool valve, piloted, 2-position, 3-way, external vent



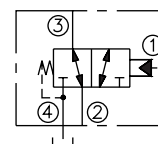
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-40	240 (3500)	38 (10)
PD12-40	240 (3500)	113 (30)
PD16-40	240 (3500)	170 (45)
PD42-M40	345 (5000)	265 (70)

Spool valve, piloted, 2-position, 3-way, internal vent, open transition



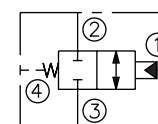
Model	Pressure bar (psi)	Flow lpm (gpm)
PD08-41	241 (3500)	8 (2)
PD10-41	240 (3500)	45 (12)
PD12-41	240 (3500)	113 (30)
PD16-41	240 (3500)	189 (50)
PD42-M41	345 (5000)	265 (70)

Spool valve, piloted, 2-position, 3-way, internal vent, open transition



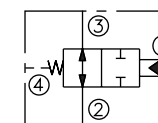
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-42	240 (3500)	38 (10)
PD12-42	240 (3500)	113 (30)
PD16-42	240 (3500)	189 (50)
PD42-M42	345 (5000)	265 (70)

Spool valve, piloted, 2-position, normally closed



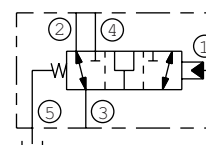
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-44	240 (3500)	32 (8)
PD12-44	240 (3500)	113 (30)
PD16-44	240 (3500)	189 (50)
HPD16-44	350 (5075)	170 (45)
HPD42-M44	350 (5075)	265 (70)

Spool valve, piloted, 2-position, normally open



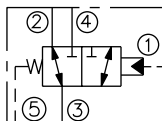
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-45	240 (3500)	45 (12)
PD12-45	240 (3500)	113 (30)
PD16-45	240 (3500)	189 (50)
HPD16-45	350 (5075)	170 (45)
PD42-M45	345 (5000)	265 (70)
HPD42-M45	350 (5075)	265 (70)

Spool valve, piloted, 2-position, 3-way, open transition



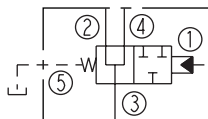
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-50	240 (3500)	38 (10)

Spool valve, piloted,
2-position, 3-way, open
transition



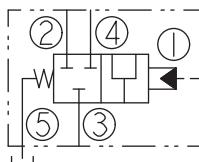
Model	Pressure bar (psi)	Flow lpm (gpm)
PD12-S50	240 (3500)	95 (25)
HPD16-S50	350 (5075)	151 (40)
PD16-S50	240 (3500)	170 (45)
PD42-S50	345 (5000)	265 (70)
HPD42-S50	350 (5075)	265 (70)

Spool valve, piloted,
2-position, 3-way



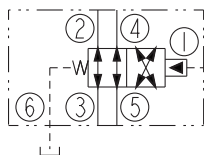
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-S51	240 (3500)	45 (12)
HPD16-S51	350 (5075)	151 (40)
PD16-S51	240 (3500)	151 (40)
HPD42-S51	240 (3500)	246 (65)

Spool valve, piloted,
2-position, 3-way



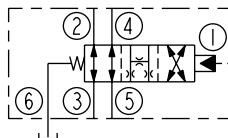
Model	Pressure bar (psi)	Flow lpm (gpm)
HPD16-S52	350 (5075)	151 (40)
HPD42-S52	350 (5075)	265 (70)

Spool valve, piloted,
2-position, 4-way



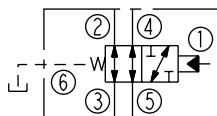
Model	Pressure bar (psi)	Flow lpm (gpm)
HPD16-S60	350 (5075)	95 (25)
HPD42-S60	350 (5075)	189 (50)

Spool valve, piloted,
2-position, 4-way, open
transition



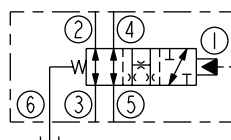
Model	Pressure bar (psi)	Flow lpm (gpm)
PD12-S60N	345 (5000)	56 (15)
PD16-S60N	240 (3500)	95 (25)
PD42-S60N	324 (4700)	189 (50)

Spool valve, piloted,
2-position, 4-way



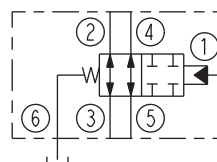
Model	Pressure bar (psi)	Flow lpm (gpm)
HPD42-S61	350 (5075)	189 (50)
HPD16-S61	350 (5075)	152 (40)

Spool valve, piloted,
2-position, 4-way, open
transition



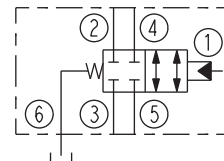
Model	Pressure bar (psi)	Flow lpm (gpm)
PD12-S61N	240 (3500)	56 (15)
PD16-S61N	240 (3500)	151 (40)

Spool valve, piloted,
2-position, 4-way



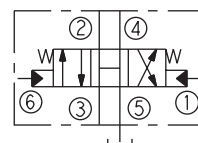
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-S62	250 (3625)	53 (14)
HPD42-S62	350 (5075)	189 (50)
HPD16-S62	350 (5075)	152 (40)

Spool valve, piloted,
2-position, 4-way



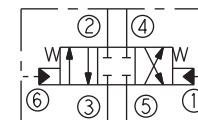
Model	Pressure bar (psi)	Flow lpm (gpm)
PD16-S63	240 (3500)	151 (40)
HPD42-S63	350 (5075)	189 (50)
HPD16-S63	350 (5075)	152 (40)

Spool valve, piloted,
3-position, 4-way, open
center



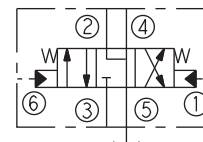
Model	Pressure bar (psi)	Flow lpm (gpm)
PD42-S67B	324 (3625)	189 (50)

Spool valve, piloted,
3-position, 4-way,
closed center



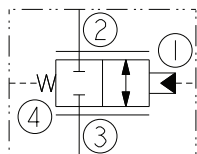
Model	Pressure bar (psi)	Flow lpm (gpm)
HPD12-S67C	350 (5075)	57 (15)
PD16-S67C	240 (3500)	95 (25)
HPD16-S67C	350 (5075)	95 (25)
HPD42-S67C	350 (5075)	189 (50)

Spool valve, piloted,
3-position, 4-way,
motor center



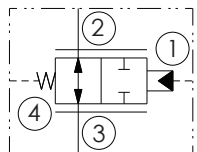
Model	Pressure bar (psi)	Flow lpm (gpm)
HPD12-S67D	350 (5075)	57 (15)
PD16-S67D	240 (3500)	95 (25)
HPD16-S67D	350 (5075)	95 (25)
HPD42-S67D	350 (5075)	189 (50)

Piloted proportional spool valve, normally closed



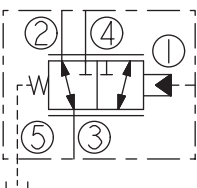
Model	Pressure bar (psi)	Flow lpm (gpm)
HPE16-44	350 (5075)	95 (25)
HPE42-M44	350 (5075)	170 (45)

Piloted proportional spool valve, normally open



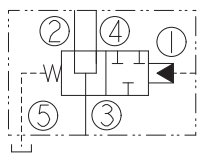
Model	Pressure bar (psi)	Flow lpm (gpm)
HPE16-45	350 (5075)	95 (25)
HPE42-M45	350 (5075)	170 (45)

Spool valve, piloted, proportional, 3-way



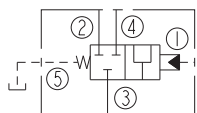
Model	Pressure bar (psi)	Flow lpm (gpm)
HPE42-S50	350 (5075)	170 (45)

Spool valve, piloted, proportional, 3-way



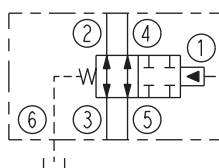
Model	Pressure bar (psi)	Flow lpm (gpm)
HPE42-S51	350 (5075)	170 (45)

Spool valve, piloted, proportional, 3-way



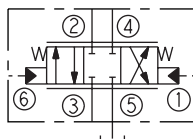
Model	Pressure bar (psi)	Flow lpm (gpm)
HPE42-S52	350 (5075)	170 (45)

Spool valve, piloted, proportional, 4-way



Model	Pressure bar (psi)	Flow lpm (gpm)
HPE42-S62	350 (5075)	170 (45)

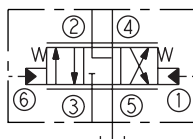
Spool valve, piloted, proportional, 3-position, 4-way, closed center



US Pat. 6,554,014

Model	Pressure bar (psi)	Flow lpm (gpm)
PE12-S67C	345 (5000)	45 (12)
HPE16-S67C	350 (5075)	95 (25)
PE16-S67C	345 (5000)	90 (24)
HPE42-S67C	350 (5075)	170 (45)
PE42-S67C	345 (5000)	170 (45)

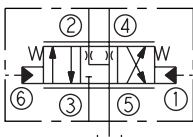
Spool valve, piloted, proportional, 3-position, 4-way, motor center



US Pat. 6,554,014

Model	Pressure bar (psi)	Flow lpm (gpm)
PE12-S67D	345 (5000)	45 (12)
HPE16-S67D	350 (5075)	95 (25)
PE16-S67D	345 (5000)	90 (24)
PE42-S67D	345 (5000)	170 (45)
HPE42-S67D	350 (5075)	170 (45)

Spool valve, piloted, proportional, 3-position, 4-way, motor center



US Pat. 6,554,014

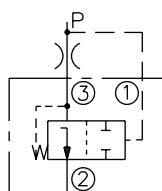
Model	Pressure bar (psi)	Flow lpm (gpm)
PE12-S67H	345 (5000)	45 (12)
HPE16-S67H	350 (5075)	95 (25)
PE16-S67H	345 (5000)	90 (24)
PE42-S67H	345 (5000)	170 (45)
HPE42-S67H	350 (5075)	170 (45)



- Variable or fixed orifice restrictor valves
- Pressure compensated flow regulators
- Pressure compensators for restrictive, bypass and priority circuits, with load-sensing system compatibility
- Optional settings and adjustment styles available
- Flow dividers/combiners for cylinder synchronizing and anti-stall applications
- Industry common cavity sizes

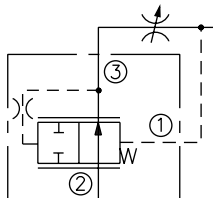
Flow Control Valves

Pressure compensator



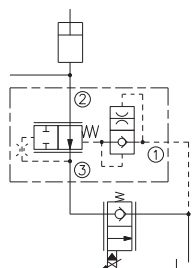
Model	Pressure bar (psi)	Flow lpm (gpm)
EC10-30	207 (3000)	30 (8)
EC12-30	240 (3500)	58 (15)
EC50-30	345 (5000)	30 (8)

Pressure compensator



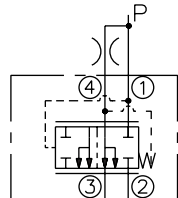
Model	Pressure bar (psi)	Flow lpm (gpm)
EC08-32	240 (3500)	11 (3)
EC10-32	207 (3000)	38 (10)
EC12-32	240 (3500)	57 (15)
HEC12-32	350 (5075)	83 (22)
EC16-32	240 (3500)	152 (40)
HEC16-32	350 (5075)	151 (40)

Pressure compensator



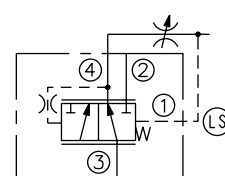
Model	Pressure bar (psi)	Flow lpm (gpm)
EC12-34	240 (3500)	83 (22)
HEC12-34	350 (5075)	83 (22)
EC16-34	240 (3500)	170 (45)

Pressure compensator, bypass type



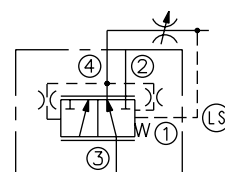
Model	Pressure bar (psi)	Flow lpm (gpm)
EC10-40	207 (3000)	38 (10)
EC12-40	240 (3500)	80 (21)
EC16-40	240 (3500)	180 (48)

Pressure compensator with static load sense



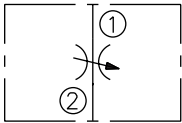
Model	Pressure bar (psi)	Flow lpm (gpm)
EC10-42	240 (3500)	38 (10)
EC50-42	345 (5000)	38 (10)
EC12-42	345 (5000)	76 (20)
HEC12-42	350 (5075)	95 (25)
EC42-M42	240 (3500)	303 (80)
EC16-42	240 (3500)	190 (50)
EC56-42	345 (5000)	150 (40)

Pressure compensator with dynamic load sense



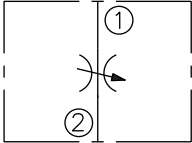
Model	Pressure bar (psi)	Flow lpm (gpm)
EC10-43	240 (3500)	34 (9)
EC50-43	345 (5000)	45 (12)
EC12-43	345 (5000)	95 (25)
HEC12-43	350 (5075)	95 (25)
EC16-43	240 (3500)	190 (50)
HEC32-43	350 (5075)	530 (140)
EC42-M43	240 (3500)	303 (80)

Needle valve, positive shut-off



Model	Pressure bar (psi)	Flow lpm (gpm)
NV08-21	240 (3500)	38 (10)
NV10-21	240 (3500)	57 (15)

Needle valve, fine adjustment



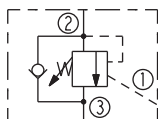
Model	Pressure bar (psi)	Flow lpm (gpm)
NV08-23	240 (3500)	38 (10)



- Pressure relief, reducing/relieving, unloading and sequencing operations
- Industry common cavity sizes up to -16 303 lpm (80 gpm)
- Pilot-operated, direct-acting, and differential-area pressure regulators for all application conditions
- RVD valve offers fast response with low pressure rise, low hysteresis, and low internal leakage
- Operating pressures up to 350 bar (5075 psi)
- Optional spring ranges and adjustment styles
- Externally plumbed pressure reducing options

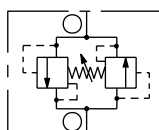
Pressure Control Valves

Counterbalance valve



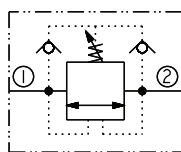
Model	Pressure bar (psi)	Flow lpm (gpm)
CB10-30	207 (3000)	19 (5)

Relief valve, bidirectional



Model	Pressure bar (psi)	Flow lpm (gpm)
CR10-28	240 (3500)	60 (16)

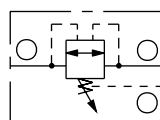
Relief valve, bidirectional



Model	Pressure bar (psi)	Flow lpm (gpm)
CR08-28H	276 (4000)	38 (10)

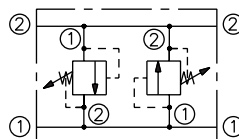
Relief valve, bidirectional, vented

US Pat. 7,069,945



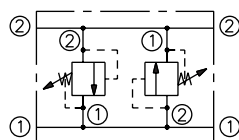
Model	Pressure bar (psi)	Flow lpm (gpm)
CR08-38	207 (3000)	30 (8)

Crossover relief valve, direct acting, dual cartridges in manifold



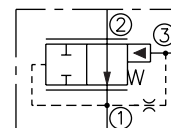
Model	Pressure bar (psi)	Flow lpm (gpm)
CRV08-20	228 (3300)	22 (6)
CRV10-20	240 (3500)	38 (10)

Crossover relief valve, differential area, dual cartridges in manifold



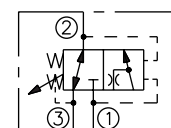
Model	Pressure bar (psi)	Flow lpm (gpm)
CRV08-22	180 (2600)	30 (8)
CRV10-22	240 (3500)	113 (30)

Logic element, spool type, pressure reducing



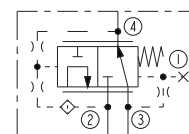
Model	Pressure bar (psi)	Flow lpm (gpm)
ER10-S30	345 (5000)	68 (18)
ER12-S30	345 (5000)	114 (30)

Kickdown sequence valve, internal pilot/ drain



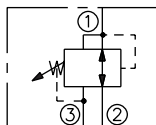
Model	Pressure bar (psi)	Flow lpm (gpm)
KS10-30	207 (3000)	11 (3)

Torque divider



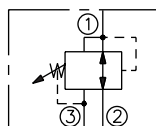
Model	Pressure bar (psi)	Flow lpm (gpm)
HTD10-40	350 (5075)	57 (15)

Pressure reducing/relieving valve



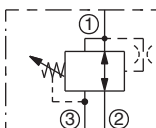
Model	Pressure bar (psi)	Flow lpm (gpm)
PR08-32	240 (3500)	11 (3)
PR10-32	207 (3000)	30 (8)

Pressure reducing/relieving valve, pilot operated



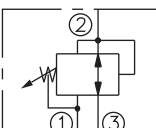
Model	Pressure bar (psi)	Flow lpm (gpm)
PR10-36	240 (3500)	56 (15)
PR50-36	345 (5000)	56 (15)
PR12-36	275 (4000)	189 (50)

Pressure reducing/relieving valve, direct acting



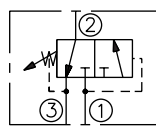
Model	Pressure bar (psi)	Flow lpm (gpm)
PR58-38	345 (5000)	19 (5)
PR50-38	345 (5000)	72 (19)

Pressure reducing/relieving valve



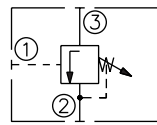
Model	Pressure bar (psi)	Flow lpm (gpm)
PRES50-30	345 (5000)	11 (3)

Sequence valve with internal pilot and drain



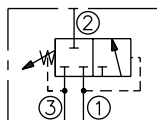
Model	Pressure bar (psi)	Flow lpm (gpm)
PS08-30	240 (3500)	22 (6)
PS10-30	207 (3000)	38 (10)
PS10-31	240 (3500)	22 (6)

Sequence valve with external pilot, internal drain



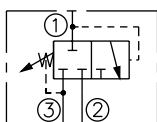
Model	Pressure bar (psi)	Flow lpm (gpm)
PS08-32	240 (3500)	19 (5)
PS10-32	207 (3000)	38 (10)
PS10-33	240 (3500)	23 (6)

Sequence valve with internal pilot and drain



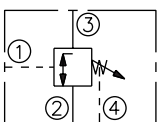
Model	Pressure bar (psi)	Flow lpm (gpm)
PS10-34	207 (3000)	117 (31)

Sequence valve with internal pilot, external drain



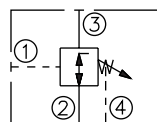
Model	Pressure bar (psi)	Flow lpm (gpm)
PS10-36	240 (3500)	56 (15)
PS50-36	331 (4800)	56 (15)

Sequence valve, normally closed with external pilot and drain



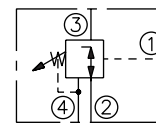
Model	Pressure bar (psi)	Flow lpm (gpm)
PS10-40	240 (3500)	38 (10)
PS50-40	345 (5000)	38 (10)

Sequence valve, normally open with external pilot and drain



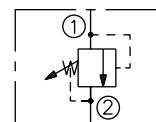
Model	Pressure bar (psi)	Flow lpm (gpm)
PS10-41	240 (3500)	38 (10)

Sequence valve, 3-way, external pilot and drain



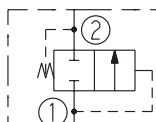
Model	Pressure bar (psi)	Flow lpm (gpm)
PS10-43	240 (3500)	38 (10)
PS50-43	414 (6000)	38 (10)

Relief valve, direct acting, poppet type



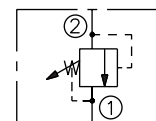
Model	Pressure bar (psi)	Flow lpm (gpm)
RV08-20	275 (4000)	23 (6)
RV58-20	345 (5000)	22 (6)
RV10-20	228 (3300)	38 (10)

Relief valve, pressure regulating, spool type



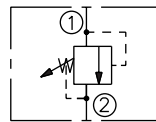
Model	Pressure bar (psi)	Flow lpm (gpm)
RV10-21F	228 (3300)	25 (7)

Relief valve, differential area, poppet type



Model	Pressure bar (psi)	Flow lpm (gpm)
RV08-22	248 (3600)	30 (8)
RV10-22	240 (3500)	114 (30)
RV50-22	345 (5000)	76 (20)

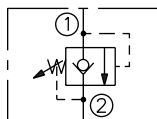
Relief valve, pilot operated, spool type



Model	Pressure bar (psi)	Flow lpm (gpm)
RV10-26	240 (3500)	114 (30)
RV50-26	345 (5000)	114 (30)
RV12-26	240 (3500)	170 (45)
RV16-26	275 (4000)	303 (80)
RV52-26	345 (5000)	170 (45)
RV56-26	345 (5000)	379 (100)

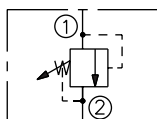
Relief valve, pilot operated with reverse-flow check

U.S. Pats. 7,069,945
7,069,945



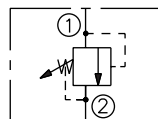
Model	Pressure bar (psi)	Flow lpm (gpm)
RV10-28	289 (4200)	114 (30)
RV50-28	345 (5000)	114 (30)

Relief valve, direct acting, poppet type, low flow



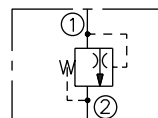
Model	Pressure bar (psi)	Flow lpm (gpm)
RV08-29	240 (3500)	1.9 (0.5)

Relief valve, direct acting, poppet type



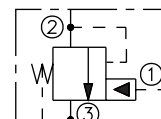
Model	Pressure bar (psi)	Flow lpm (gpm)
HRVD08-20	240 (3500)	53 (14)
RVD50-20	350 (5075)	114 (30)
RVD50-20P	385 (5575)	114 (30)

Thermal relief valve, poppet type



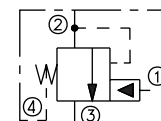
Model	Pressure bar (psi)	Flow lpm (gpm)
TR04-B20	414 (6000)	no rating

Unloading pilot, internal drain



Model	Pressure bar (psi)	Flow lpm (gpm)
UP10-31	207 (3000)	4 (1)

Remote sequence valve, unloading pilot



Model	Pressure bar (psi)	Flow lpm (gpm)
UP10-40	207 (3000)	4 (1)

Accessories

HydraForce Valve Size

Cavity Thread Size

04	7/16-20UNF-2B
07	5/8-18UNF-2B
08, 38, 58, 98	3/4-16UNF-2B
10, 50, 70	7/8-14UNF-2B
12, 52, 72	1-1/16-12UN-2B
16, 76	1-5/16-12UN-2B
20	1-5/8-12UN-2B
42	M42 x 2,0-6H

Valve Housings

Single cavity housings are available in a wide variety of port sizes for industry-common valve cavity sizes. Anodized aluminum housings are rated up to 240 bar (3500 psi). Steel and ductile iron housings are available in select sizes for high-pressures up to 350 bar (5075 psi).

Custom Manifold Accessories

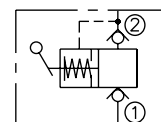
A full line of manifold accessories are available from stock including: cavity plugs, orifice discs, port plugs, orifice plugs, pilot pistons, screen cartridges, as well as cavity form tools and finishing tools.

Hand Pumps

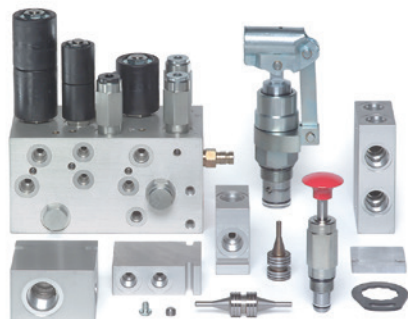
Three versions of hand operated piston and check valve pumps are available for manual operation of piloted features like brake release or emergency lowering of power-down functions.

Hand Pumps

Hand pump
see catalog for operating
force requirements



Model	Pressure bar (psi)	Disp. cm ³ (in ³)
HP10-20	207 (3000)	1.36 (0.083)
HP10-21	207 (3000)	10.6 (0.65)
HP16-21	207 (3000)	21.3 (1.3)




HYDRAFORCE parts price list - LIST prices effective for all orders placed from 1st January 2020

Product type	Option	Code	Description	List price
BODY ALLOY	1-5/16"UN	4553840	BODY 20-2 16T	\$298.00
BODY ALLOY	1-5/8"UN	4553850	BODY 20-2 20T	\$298.00
BODY IRON	1-5/8"UN	4553870	BODY 20-2 20TD	\$544.00
BODY ALLOY	7/8" UN	7020660	BODY 10T PV72-2X, FR12-23	\$152.00
BODY ALLOY	3/4"UN	7021470	BODY 12-6 8T	\$442.00
BODY ALLOY	1-1/16" UN	7022250	BODY 12-2 12T	\$122.00
BODY ALLOY	1-5/16"UN	7022260	BODY 12-2 16T	\$128.00
BODY ALLOY	3/4"UN	7022320	BODY 12-3 8T	\$190.00
BODY ALLOY	7/8" UN	7022330	BODY 12-3 10T	\$184.00
BODY ALLOY	1-1/16" UN	7022340	BODY 12-3 12T	\$184.00
BODY ALLOY		7022450	BODY FD12-40 12D FD- TYPE	\$272.00
BODY ALLOY	1-1/16" UN	7022470	BODY 12-4 12T	\$244.00
BODY ALLOY	1/2"BSPP	7022610	BODY VC12-3 G1/2 PORT 4B	\$286.00
BODY ALLOY	1-5/16"UN	7022660	BODY 16-3 16T	\$258.00
BODY ALLOY	3/4"UN	7022830	BODY 10-5 8T	\$298.00
BODY ALLOY	1-5/16"UN	7023130	BODY 20-S3 16T	\$350.00
BODY ALLOY	1-1/16" UN	7023230	BODY 16-2 12T	\$118.00
BODY ALLOY	1-5/16"UN	7023240	BODY 16-2 16T	\$126.00
BODY ALLOY	1-5/16"UN	7023340	BODY 16-S3 16T	\$292.00
BODY ALLOY	1-1/16" UN	7023440	BODY F/FD16 12T PORTS	\$386.00
BODY ALLOY	1-5/16"UN	7023460	BODY F/FD16-40 16T PORTS	\$386.00
BODY ALLOY	1-5/16"UN	7023470	BODY 16-4WAY 16T PORTS	\$386.00
BODY ALLOY	9/16"UN	7024260	BODY 10-2 6T PORTS	\$72.00
BODY ALLOY	3/4"UN	7024280	BODY 10-2 8T PORTS	\$74.00
BODY ALLOY	9/16"UN	7024360	BODY 10-3 6T PORTS	\$96.00
BODY ALLOY	3/4"UN	7024380	BODY 10-3 8T PORTS	\$96.00
BODY ALLOY	9/16"UN	7024460	BODY 10-4 6T PORTS	\$108.00
BODY ALLOY	3/4"UN	7024480	BODY 10-4 8T PORTS	\$108.00
BODY ALLOY	7/16"UN	7024640	BODY 08-2 4T PORTS	\$84.00
BODY ALLOY	9/16"UN	7024660	BODY 08-2 6T PORTS	\$64.00
BODY ALLOY	3/4"UN	7024680	BODY 08-2 8T PORTS	\$64.00
BODY ALLOY	7/16"UN	7024740	BODY 08-3 4T PORTS	\$106.00
BODY ALLOY	9/16"UN	7024760	BODY 08-3 6T PORTS	\$84.00
BODY ALLOY	9/16"UN	7024860	BODY 08-4 6T PORTS	\$98.00
BODY ALLOY	9/16"UN	7025660	BODY 10-2 6T T PORTS	\$118.00
BODY ALLOY	3/4"UN	7025680	BODY 10-2 8T T PORTS	\$116.00
BODY ALLOY	7/8" UN	7026530	BODY 10-S3 10T	\$196.00
BODY ALLOY		7027400	BODY 12-S3	\$208.00
BODY ALLOY	1/4"BSPP	7028220	BODY 10-2 2B PORTS GOLD ANODIZE	\$106.00
BODY ALLOY	3/8"BSPP	7028230	BODY 10-2 3B PORTS	\$102.00
BODY ALLOY		7028240	BODY 10-2WAY 1/2" BSPP PORTS	\$102.00
BODY ALLOY	3/8"BSPP	7028330	BODY 10-3WAY 3B PORTS	\$136.00
BODY ALLOY	3/8"BSPP	7028630	BODY 08-2 3B PORTS	\$106.00
BODY ALLOY	3/8"BSPP	7028730	BODY 08-3 WAY 3B	\$116.00
BODY ALLOY	7/8" UN	7029240	BODY 10-2-10T PORTS	\$102.00
BODY ALLOY	1-5/16"UN	7029540	BODY 42 - 4 WAY 16T	\$838.00
BODY		7073910	BODY 2 X 2 08 SIZE	\$184.00
BODY IRON	3/4"BSPP	7150220	BODY 12-S6 6BD PD/PE-S6	\$780.00
BODY IRON	1-1/16"UN	7150820	BODY 12-4 12TD DURABAR FD TYPE	\$408.00
BODY IRON	9/16"UN	7151010	BODY 08-2 6TD	\$136.00
BODY IRON	3/4"UN	7151020	BODY 08-2 8TD	\$136.00
BODY IRON	9/16"UN	7151110	BODY 08-3 6TD DURABAR	\$166.00
BODY IRON	9/16"UN	7151210	BODY 08-4 6TD DURABAR	\$244.00
BODY IRON	9/16"UN	7151400	BODY 10-2 6TD DURABAR	\$142.00
BODY IRON	3/4"UN	7151410	BODY 10-2 8TD DURABAR	\$142.00
BODY IRON	9/16"UN	7151500	BODY 10-3 6TD DURABAR	\$190.00
BODY IRON	3/4"UN	7151510	BODY 10-3 8TD DURABAR	\$190.00
BODY IRON	3/4"UN	7151610	BODY 10-S3 8TD DURABAR SPECIAL	\$258.00
BODY IRON	9/16"UN	7151700	BODY 10-4 6TD DURABAR	\$292.00
BODY IRON	1-5/16"UN	7152420	BODY 16-4 FD 16TD	\$544.00
BODY IRON	1-5/16"UN	7153210	BODY 20-S3 16TD DURABAR	\$580.00
BODY IRON	9/16"UN	7153620	BODY VC-T009 6T EHPR98-T33	\$166.00
BODY IRON	3/4"UN	7158310	BODY, HVC10-4 8HT	\$320.00
BODY IRON	1-1/16"UN	7158410	BODY, HVC12-2 12HT	\$374.00
BODY IRON	1-1/16"UN	7158520	BODY, HVC12-3 12HT	\$424.00
BODY IRON	1-5/16"UN	7159640	BODY HVC16-3SPEC DUCTILE IRON 16HT	\$746.00
BRAKE VALVE		BV10-40-0-N	BV10-40-0-N BRAKE VALVE	\$196.00
BRAKE VALVE		HBV10-40-0-U	HBV10-40-0-U BRAKE VALVE	\$210.00

Product type	Option	Code	Description	List price
CAVITY PLUG		CP04-2-0-N	CP04-20-N CAVITY PLUG	\$34.00
CAVITY PLUG		CP08-20-P	CP08-20-P CAVITY PLUG	\$40.00
CAVITY PLUG		CP08-30-N	CP08-30-N CAVITY PLUG	\$48.00
CAVITY PLUG		CP08-3A-N	CP08-3A-N CAVITY PLUG	\$54.00
CAVITY PLUG		CP08-3B-N	CP08-3B-N CAVITY PLUG	\$54.00
CAVITY PLUG		CP08-40-N	CP08-40-N CAVITY PLUG	\$54.00
CAVITY PLUG		CP08-40-V	CP08-40-V CAVITY PLUG	\$62.00
CAVITY PLUG		CP08-4L-N	CP08-4L-N CAVITY PLUG	\$74.00
CAVITY PLUG		CP10-20-N	CP10-20-N CAVITY PLUG	\$38.00
CAVITY PLUG		CP10-20-P	CP10-20-P CAVITY PLUG	\$44.00
CAVITY PLUG		CP10-30-N	CP10-30-N CAVITY PLUG	\$54.00
CAVITY PLUG		CP10-30-V	CP10-30-V CAVITY PLUG	\$62.00
CAVITY PLUG		CP10-3A-N	CP10-3A-N CAVITY PLUG	\$68.00
CAVITY PLUG		CP10-3B-N	CP10-3B-N CAVITY PLUG	\$72.00
CAVITY PLUG		CP10-40-N	CP10-40-N CAVITY PLUG	\$62.00
CAVITY PLUG		CP10-S30-N	CP10-S30-N CAVITY PLUG	\$54.00
CAVITY PLUG		CP12-20N	CP12-20-N CAVITY PLUG	\$78.00
CAVITY PLUG		CP12-20-P	CP12-20-P CAVITY PLUG	\$102.00
CAVITY PLUG		CP12-30N	CP12-30-N CAVITY PLUG	\$88.00
CAVITY PLUG		CP12-3BN	CP12-3B-N CAVITY PLUG	\$140.00
CAVITY PLUG		CP16-20-N	CP16-20-N CAVITY PLUG	\$88.00
CAVITY PLUG		CP16-40-N	CP16-40-N CAVITY PLUG	\$150.00
CAVITY PLUG		CP16-S30-N	CP16-S30-N CAVITY PLUG	\$166.00
CAVITY PLUG		CP42-M30-N	CP42-M30-N CAVITY PLUG	\$220.00
CHECK VALVE		CV04-20-0-N-5	CV04-20-0-N-05 CHECK VALVE	\$40.00
CHECK VALVE		CV08-20-0-N-10	CV08-20-0-N-10 CHECK VALVE	\$40.00
CHECK VALVE		CV08-20-0-N-100	CV08-20-0-N-100 CHECK VALVE	\$40.00
CHECK VALVE		CV08-20-0-N-150	CV08-20-0-N-150 CHECK VALVE	\$40.00
CHECK VALVE		CV08-20-0-N-200	CV08-20-0-N-200 CHECK VALVE	\$40.00
CHECK VALVE		CV08-20-0-N-25	CV08-20-0-N-25 CHECK VALVE	\$40.00
CHECK VALVE		CV08-20-0-N-270	CV08-20-0-N-270 CHECK VALVE	\$40.00
CHECK VALVE		CV08-20-0-N-4	CV08-20-0-N-04 CHECK VALVE	\$40.00
CHECK VALVE		CV08-20-0-N-40	CV08-20-0-N-40 CHECK VALVE	\$40.00
CHECK VALVE		CV08-20-0-N-60	CV08-20-0-N-60 CHECK VALVE	\$40.00
CHECK VALVE		CV08-20-0-N-M25	CV08-20-0-N-M25 CHECK VALVE	\$40.00
CHECK VALVE		CV08-20-0-P-10	CV08-20-0-P-10 CHECK VALVE	\$54.00
CHECK VALVE		CV08-20-0-P-150	CV08-20-0-P-150 CHECK VALVE	\$54.00
CHECK VALVE		CV08-20-0-V-10	CV08-20-0-V-10 CHECK VALVE	\$48.00
CHECK VALVE		CV08-20-0-V-200	CV08-20-0-V-200 CHECK VALVE	\$48.00
CHECK VALVE		CV08-20-0-V-4	CV08-20-0-V-40 CHECK VALVE	\$48.00
CHECK VALVE		CV08-21-0-N-30	CV08-21-0-N-30 CHECK VALVE	\$62.00
CHECK VALVE		CV10-20-0-N-100	CV10-20-0-N-100 CHECK VALVE	\$44.00
CHECK VALVE		CV10-20-0-N-15	CV10-20-0-N-15 CHECK VALVE	\$44.00
CHECK VALVE		CV10-20-0-N-2	CV10-20-0-N-02 CHECK VALVE	\$44.00
CHECK VALVE		CV10-20-0-N-200	CV10-20-0-N-200 CHECK VALVE	\$44.00
CHECK VALVE		CV10-20-0-N-30	CV10-20-0-N-30 CHECK VALVE	\$44.00
CHECK VALVE		CV10-20-0-N-40	CV10-20-0-N-40 CHECK VALVE	\$44.00
CHECK VALVE		CV10-20-0-N-5	CV10-20-0-N-05 CHECK VALVE	\$44.00
CHECK VALVE		CV10-20-0-N-70	CV10-20-0-N-70 CHECK VALVE	\$44.00
CHECK VALVE		CV10-20-0-V-200	CV10-20-0-V-200 CHECK VALVE	\$54.00
CHECK VALVE		CV10-20-0-V-30	CV10-20-0-V-30 CHECK VALVE	\$54.00
CHECK VALVE		CV10-20-0-V-5	CV10-20-0-V-05 CHECK VALVE	\$54.00
CHECK VALVE		CV10-24-0-N-05	CV10-24-0-N-05 CHECK VALVE	\$68.00
CHECK VALVE		CV10-28-0-N-65/45	CV10-28-0-N-65/45 THERMAL RELIEF	\$122.00
CHECK VALVE		CV12-20-0-N-05	CV12-20-0-N-05 CHECK VALVE	\$98.00
CHECK VALVE		CV12-20-0-N-25	CV12-20-0-N-25 CHECK VALVE	\$98.00
CHECK VALVE		CV12-20-0-N-30	CV12-20-0-N-30 CHECK VALVE	\$98.00
CHECK VALVE		CV12-20-0-N-60	CV12-20-0-N-60 CHECK VALVE	\$98.00
CHECK VALVE		CV12-20-0-N-80	CV12-20-0-N-80 CHECK VALVE	\$98.00
CHECK VALVE		CV12-20-0-V-05	CV12-20-0-V-05 CHECK VALVE	\$112.00
CHECK VALVE		CV12-21-0-N-26	CV12-21-0-N-26 CHECK VALVE	\$128.00
CHECK VALVE		CV12-21-0-N-56	CV12-21-0-N-56 CHECK VALVE	\$128.00
CHECK VALVE		CV12-21-0-N-6	CV12-21-0-N-06 CHECK VALVE	\$128.00
CHECK VALVE		CV16-20-0-N-25	CV16-20-0-N-25 CHECK VALVE	\$122.00
CHECK VALVE		CV16-20-0-N-5	CV16-20-0-N-05 CHECK VALVE	\$122.00
CHECK VALVE		CV16-20-0-N-60	CV16-20-0-N-60 CHECK VALVE	\$122.00
CHECK VALVE		CV16-20-0-P-25	CV16-20-0-P-25 CHECK VALVE	\$152.00
CHECK VALVE		CV16-20-0-V-25	CV16-20-0-V-25 CHECK VALVE	\$140.00
CHECK VALVE		CV16-20-0-V-5	CV16-20-0-V-05 CHECK VALVE	\$140.00
CHECK VALVE		CV16-20T-0-N-100	CV16-20T-0-N-100 CHECK VALVE	\$184.00
CHECK VALVE		CV16-20T-0-N-150	CV16-20T-0-N-150 CHECK VALVE	\$184.00
CHECK VALVE		CV42-M20-0-N-100	CV42-M20-0-N-100 CHECK VALVE	\$224.00
CHECK VALVE		CV42-M20-0-N-15	CV42-M20-0-N-15 CHECK VALVE	\$224.00
CHECK VALVE		CV42-M20-0-N-30	CV42-M20-0-N-30 CHECK VALVE	\$224.00
CHECK VALVE		CV42-M20-0-N-5	CV42-M20-0-N-05 CHECK VALVE	\$224.00

Product type	Option	Code	Description	List price
CHECK VALVE		CV42-M20-0-N-60	CV42-M20-0-N-60 CHECK VALVE	\$224.00
CHECK VALVE		CV50-20-0-P-100	CV50-20-0-P-100 CHECK VALVE	\$74.00
CHECK VALVE		CV50-20-0-P-15	CV50-20-0-P-15 CHECK VALVE	\$74.00
CHECK VALVE		CV50-20-0-P-30	CV50-20-0-P-30 CHECK VALVE	\$74.00
CHECK VALVE		CV50-20-0-P-5	CV50-20-0-P-05 CHECK VALVE	\$74.00
CHECK VALVE		CV50-20-0-P-70	CV50-20-0-P-70 CHECK VALVE	\$74.00
CHECK VALVE		CVD08	CVD08 CHECK VALVE DISC	\$38.00
CHECK VALVE		HCV06-20-0-U-05	HCV06-20-0-U-05 CHECK VALVE	\$44.00
CHECK VALVE		HCV08-20-0-U-03	HCV08-20-0-U-03 CHECK VALVE	\$62.00
CHECK VALVE		HCV12-20-0-U-05	HCV12-20-0-U-05 CHECK VALVE	\$102.00
CHECK VALVE		HCV12-20-0-U-25	HCV12-20-0-U-25 CHECK VALVE	\$102.00
CHECK VALVE		HCV12-20-0-U-80	HCV12-20-0-U-80 CHECK VALVE	\$102.00
CHECK VALVE		HCV16-20-0-N-05	HCV16-20-0-N-05 CARTRIDGE	\$150.00
CHECK VALVE		HCV16-20-0-U-25	HCV16-20-0-U-25 CARTRIDGE	\$136.00
CHECK VALVE		HCV16-20-0-U-60	HCV16-20-0-U-60 CARTRIDGE	\$136.00
CHECK VALVE		HCV42-M20-0-U-05	HCV42-M20-0-U-05 CARTRIDGE	\$238.00
CHECK VALVE		HCV42-M20-0-U-30	HCV42-M20-0-U-30 CHECK VALVE	\$238.00
CHECK VALVE		HPC08-30-0-US-140	HPC08-30-0-US-140 CHECK VALVE	\$112.00
CHECK VALVE		PC08-30-0-N	PC08-30-0-N P.O. CHECK VALVE	\$92.00
CHECK VALVE		PC08-30-0-N-120	PC08-30-0-N-120 P.O. CHECK VALVE	\$92.00
CHECK VALVE		PC08-30-0-N-270	PC08-30-0-N-270 P.O. CHECK VALVE	\$92.00
CHECK VALVE		PC08-30-0-N-70	PC08-30-0-N-70 P.O. CHECK VALVE	\$92.00
CHECK VALVE		PC08-30-0-N-90	PC08-30-0-N-90 P.O. CHECK VALVE	\$92.00
CHECK VALVE		PC08-30-0-NS-90	PC08-30-0-NS-90 P.O. CHECK VALVE	\$96.00
CHECK VALVE		PC08-30-0-V-270	PC08-30-0-V-270 P.O. CHECK VALVE	\$102.00
CHECK VALVE		PC08-30-0-VS-270	PC08-30-0-VS-270 P.O. CHECK VALVE	\$102.00
CHECK VALVE		PC10-30-0-N	PC10-30-0-N P.O. CHECK VALVE	\$98.00
CHECK VALVE		PC10-30-0-N-120	PC10-30-0-N-120 P.O. CHECK VALVE	\$98.00
CHECK VALVE		PC10-30-0-N-270	PC10-30-0-N-270 PILOTED CHECK	\$98.00
CHECK VALVE		PC10-30-0-N-70	PC10-30-0-N-70 P.O. CHECK	\$98.00
CHECK VALVE		PC10-30-0-N-90	PC10-30-0-N-90 P.O. CHECK	\$98.00
CHECK VALVE		PC10-30-0-V	PC10-30-0-V P.O. CHECK VALVE	\$108.00
CHECK VALVE		PC10-32-0-N-30	PC10-32-0-N-30 2:1 P.O. CHECK	\$116.00
CHECK VALVE		PC10-32-8T-N-30	PC10-32-8T-N-30 P.O. CHECK VALVE	\$224.00
CHECK VALVE		PC10-38-0-N-100-25	PC10-38-0-N-100/25 CONTROL VALVE	\$162.00
CHECK VALVE		PC10-38-0-N-100-30	PC10-38-0-N-100/30 CONTROL VALVE	\$162.00
CHECK VALVE		PC10-38-0-VS-100-25	PC10-38-0-VS-100/25 CONTROL VALVE	\$176.00
COIL	DEUTSCH CON.	4301212	COIL 12 12V ER	\$176.00
COIL	DEUTSCH CON.	4301224	COIL 12 24V ER	\$176.00
COIL	INTEGRAL DEUTSCH CON	4301512	COIL 08 12V DR	\$54.00
COIL	INTEGRAL DEUTSCH CON	4301524	COIL 08 24V DR	\$54.00
COIL	INTEGRAL DEUTSCH CON	4301612	COIL 10 12V DR	\$68.00
COIL	INTEGRAL DEUTSCH CON	4301624	COIL 10 24V DR	\$68.00
COIL	INTEGRAL DEUTSCH CON	4301852	COIL 08 12V DR/Z	\$62.00
COIL	INTEGRAL DEUTSCH CON	4301854	COIL 08 24V DR/Z	\$62.00
COIL	INTEGRAL DEUTSCH CON	4301862	COIL 10 12V DR/Z	\$74.00
COIL	INTEGRAL DEUTSCH CON	4301872	COIL 08 12V DR/D	\$62.00
COIL	INTEGRAL DEUTSCH CON	4301874	COIL 08 24V DR/D	\$62.00
COIL	INTEGRAL DEUTSCH CON	4301891	COIL 10 10V DR/D	\$74.00
COIL	INTEGRAL DEUTSCH CON	4301892	COIL 10 12V DR/D	\$74.00
COIL	INTEGRAL DEUTSCH CON	4301893	COIL 10 20V DR/D	\$74.00
COIL	INTEGRAL DEUTSCH CON	4301894	COIL 10 24V DR/D	\$74.00
COIL	DEUTSCH CON.	4302682	COIL D03 12V ER	\$88.00
COIL	DEUTSCH CON.	4302684	COIL D03 24V ER	\$88.00
COIL	DEUTSCH CON.	4303212	COIL 70 12V ER	\$102.00
COIL	DEUTSCH CON.	4303224	COIL 70 24V ER	\$102.00
COIL	METRIC PACK 150 CON	4303412	COIL 08 12V EY	\$54.00
COIL	METRIC PACK 150 CON	4303424	COIL 08 24V EY	\$54.00
COIL	METRIC PACK 150 CON	4303524	COIL 10 24V EY	\$72.00
COIL	DEUTSCH CON.	4303612	COIL 08 12V ER	\$54.00
COIL	DEUTSCH CON.	4303620	COIL 08 20V ER	\$54.00
COIL	DEUTSCH CON.	4303624	COIL 08 24V ER	\$54.00
COIL	DEUTSCH CON.	4303710	COIL 10 10V ER	\$68.00
COIL	DEUTSCH CON.	4303712	COIL 10 12V ER	\$68.00
COIL	DEUTSCH CON.	4303724	COIL 10 24V ER	\$68.00
COIL	METRIC PACK 150 CON	4303812	COIL 08 12V EY/Z	\$64.00
COIL	DEUTSCH CON.	4304012	COIL 08 12V ER/Z	\$62.00
COIL	DEUTSCH CON.	4304024	COIL 08 24V ER/Z	\$62.00
COIL	DEUTSCH CON.	4304112	COIL 10 12V ER/Z	\$74.00
COIL	DEUTSCH CON.	4304124	COIL 10 24V ER/Z	\$74.00
COIL	DEUTSCH CON.	4304712	COIL EH 12V ER	\$54.00
COIL	DEUTSCH CON.	4304724	COIL EH 24V ER	\$54.00
COIL	FLYING LEAD	4305112	COIL 08 12V EL	\$64.00
COIL	FLYING LEAD	4305120	COIL 08 20V EL	\$64.00
COIL	FLYING LEAD	4305124	COIL 08 24V EL	\$64.00

Product type	Option	Code	Description	List price
COIL	DEUTSCH CON.	4305524	COIL 12 24V ER/Z	\$186.00
COIL	TIMER CONECTOR	4305624	COIL 10 24V EJ	\$84.00
COIL	FLYING LEAD	4305712	COIL 10 12V EL	\$82.00
COIL	DIN CONNECTOR	4305862	COIL 08 12V EG	\$68.00
COIL	DIN CONNECTOR	4305864	COIL 08 24V EG	\$68.00
COIL	DIN CONNECTOR	4305882	COIL 10 12V EG	\$84.00
COIL	DIN CONNECTOR	4305884	COIL 10 24V EG	\$84.00
COIL	DIN CONNECTOR	4305894	COIL 10 24V EG/Z	\$92.00
COIL	DUAL SPADE CONNECTOR	6301012	COIL 08 12V DS	\$50.00
COIL	DUAL SPADE CONNECTOR	6301020	COIL 08 20V DS	\$54.00
COIL	DUAL SPADE CONNECTOR	6301024	COIL 08 24V DS	\$50.00
COIL	DUAL LEADS	6302010	COIL 08 10V DL	\$54.00
COIL	DUAL LEADS	6302012	COIL 08 12V DL	\$50.00
COIL	DUAL LEADS	6302024	COIL 08 24V DL	\$50.00
COIL	DIN CONNECTOR	6306012	COIL 08 12V DG	\$62.00
COIL	DIN CONNECTOR	6306024	COIL 08 24V DG	\$62.00
COIL	DIN CONNECTOR	6306036	COIL 08 36V DG	\$68.00
COIL	DUAL LEADS	6309412	COIL 08 12V DL/W	\$68.00
COIL	DUAL LEADS	6309424	COIL 08 24V DL/W	\$72.00
COIL	AC DIN CONNECTOR	6316024	COIL 08 24V AG	\$106.00
COIL	AC DIN CONNECTOR	6316115	COIL 08 115V AG	\$106.00
COIL	AC DIN CONNECTOR	6316230	COIL 08 230V AG	\$108.00
COIL	DUAL SPADE CONNECTOR	6351012	COIL 10 12V DS	\$64.00
COIL	DUAL SPADE CONNECTOR	6351024	COIL 10 24V DS	\$64.00
COIL	DUAL LEADS	6352012	COIL 10 12V DL	\$64.00
COIL	DUAL LEADS	6352024	COIL 10 24V DL	\$64.00
COIL	DIN CONNECTOR	6356010	COIL 10 10V DG	\$74.00
COIL	DIN CONNECTOR	6356012	COIL 10 12V DG	\$72.00
COIL	DIN CONNECTOR	6356020	COIL 10 20V DG	\$74.00
COIL	DIN CONNECTOR	6356024	COIL 10 24V DG	\$72.00
COIL	DIN CONNECTOR	6356036	COIL 10 36V DG	\$108.00
COIL	DIN CONNECTOR	6356048	COIL 10 48V DG	\$108.00
COIL	DIN CONNECTOR	6356110	COIL 10 110V DG	\$108.00
COIL	DUAL LEADS	6359412	COIL 10 12V DL/W	\$88.00
COIL	AC DIN CONNECTOR	6366024	COIL 10 24V AG	\$122.00
COIL	AC DIN CONNECTOR	6366115	COIL 10 115V AG	\$122.00
COIL	AC DIN CONNECTOR	6366230	COIL 10 230V AG	\$122.00
COIL	DIN CONNECTOR	6451612	COIL EH 12V DG	\$74.00
COIL	DIN CONNECTOR	6451624	COIL EH 24V DG	\$74.00
COIL	DUAL LEADS	6507212	COIL 70 12V DL	\$84.00
COIL	DUAL LEADS	6507224	COIL 70 24V DL	\$84.00
COIL	DIN CONNECTOR	6507612	COIL 70 12V DG	\$96.00
COIL	DIN CONNECTOR	6507624	COIL 70 24V DG	\$96.00
COIL	DUAL LEADS	6507912	COIL 70 12V DL/W	\$88.00
COIL	DIN CONNECTOR	6956012	COIL 12 12V EG	\$180.00
COIL	DIN CONNECTOR	6956024	COIL 12 24V EG	\$180.00
COIL	METRIC PACK 150 CON	6964012	COIL 12 12V EY	\$176.00
COIL	METRIC PACK 150 CON	6964024	COIL 12 24V EY	\$176.00
COUNTERBALANCE		CB10-30A-0-N-30	CB10-30A-0-N-30/ CONTROL VALVE	\$320.00
CROSS OVER RELIEF		CR08-38A-0-N-10	CR08-38A-0-N-10/ CROSS OVER RELIEF	\$184.00
CROSS OVER RELIEF		CR08-38A-0-N-30	CR08-38A-0-N-30/ CROSS OVER RELIEF	\$184.00
CROSS OVER RELIEF		CR10-28A-0-N-24	CR10-28A-0-N-24/ CROSS RELIEF VALVE	\$298.00
CROSS OVER RELIEF		CR10-28A-0-N-30	CR10-28A-0-N-30/ CROSS RELIEF VALVE	\$298.00
DUAL CHECK		DC08-40-0-N-135	DC08-40-0-N-135 DUAL CHECK	\$162.00
DUAL CHECK		DC08-40-0-N-25	DC08-40-0-N-25 DUAL CHECK	\$162.00
DUAL CHECK		DC10-40-0-N-25	DC10-40-0-N-25 DUAL CHECK	\$194.00
CONTROLLER		4000350	CONTROLLER ECU-0809	\$2,138.00
CONTROLLER		4204700	EVDR-0201A VALVE CONTROLLER	\$964.00
CONTROLLER		4204800	EVDR-0101A CONTROLLER	\$502.00
CONTROLLER		4208230	ECDR-0203A-001 CONTROLLER	\$1,350.00
CONTROLLER		4208560	ECDR-0506A-002 CONTROLLER	\$1,798.00
FLOW CONTROL		FC08-20F-0-N-C-10	FC08-20F-0-N-C10 FLOW CONTROL	\$92.00
FLOW CONTROL		FC08-20F-0-N-F-10	FC08-20F-0-N-F10 FLOW CONTROL	\$92.00
FLOW CONTROL		FC10-20A-0-N	FC10-20A-0-N FLOW CONTROL VALVE	\$106.00
FLOW CONTROL		FC10-20A-0-V	FC10-20A-0-V FLOW CONTROL VALVE	\$112.00
FLOW CONTROL		FC10-20B-0-N	FC10-20B-0-N FLOW CONTROL VALVE	\$122.00
FLOW CONTROL		FC10-21A-0-N-5	FC10-21A-0-N-05 FLOW CONTROL VALVE	\$118.00
FLOW CONTROL		FC12-20A-0-N	FC12-20A-0-N FLOW CONTROL VALVE	\$156.00
FLOW CONTROL		FD50-44-0-N-11	FD50-44-0-N-11 FLOW DIVIDER	\$386.00
FLOW CONTROL		FD50-45-0-N-22	FD50-45-0-N-22 FLOW DIVIDER	\$184.00
FLOW CONTROL		FD50-45-0-N-33	FD50-45-0-N-33 FLOW DIVIDER	\$184.00
FLOW CONTROL		FD50-45-0-N-44	FD50-45-0-N-44 FLOW DIVIDER	\$184.00
FLOW CONTROL		FD50-45-0-N-55	FD50-45-0-N-55 FLOW DIVIDER	\$184.00
FLOW CONTROL		FD50-45-0-N-66	FD50-45-0-N-66 FLOW DIVIDER	\$184.00
FLOW CONTROL		FD50-45-0-N-88	FD50-45-0-N-88 FLOW DIVIDER	\$184.00

Product type	Option	Code	Description	List price
FLOW CONTROL		FD50-45-0-V-33	FD50-45-0-V-33 FLOW DIVIDER	\$184.00
FLOW CONTROL		FD50-45-0-V-66	FD50-45-0-V-66 FLOW DIVIDER	\$184.00
FLOW CONTROL		FD52-45-0-N-22	FD52-45-0-N-22 FLOW DIVIDER	\$286.00
FLOW CONTROL		FD52-45-0-N-44	FD52-45-0-N-44 FLOW DIVIDER	\$286.00
FLOW CONTROL		FD52-45-0-N-66	FD52-45-0-N-66 FLOW DIVIDER	\$286.00
FLOW CONTROL		FD56-45-0-N-44	FD56-45-0-N-44 FLOW DIVIDER	\$340.00
FLOW CONTROL		FD56-45-0-N-66	FD56-45-0-N-66 FLOW DIVIDER	\$340.00
FLOW CONTROL		FD56-45-0-N-84	FD56-45-0-N-84 FLOW DIVIDER	\$340.00
FLOW CONTROL		FD56-45-0-N-88	FD56-45-0-N-88 FLOW DIVIDER	\$340.00
FLOW CONTROL		FD56-45-0-N-99	FD56-45-0-N-99 FLOW DIVIDER	\$340.00
FLOW CONTROL		FR08-20F-0-N-/0.5	FR08-20F-0-N-/ 0.50 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M0.2	FR08-20F-0-N-/ M0.2 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M0.3	FR08-20F-0-N-/ M0.3 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M0.4	FR08-20F-0-N-/ M0.4 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M0.5	FR08-20F-0-N-/ M0.5 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M1.0	FR08-20F-0-N-/ M1.0 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M2.0	FR08-20F-0-N-/ M2.0 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M2.3	FR08-20F-0-N-/ M2.3 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M3.0	FR08-20F-0-N-/ M3.0 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M3.8	FR08-20F-0-N-/ M3.8 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M4.0	FR08-20F-0-N-/ M4.0 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M5.0	FR08-20F-0-N-/ M5.0 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-N/M6.0	FR08-20F-0-N-/ M6.0 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR08-20F-0-V/M0.4	FR08-20F-0-V-/ 0.40 FLOW REGULATOR	\$116.00
FLOW CONTROL		FR08-20F-0-V/M1.0	FR08-20F-0-V-/ 1.00 FLOW REGULATOR	\$116.00
FLOW CONTROL		FR08-20F-0-V/M5.0	FR08-20F-0-V-/ M5 FLOW REGULATOR	\$116.00
FLOW CONTROL		FR08-30F-0-N-M0.5	FR08-30F-0-N-/ M0.5 FLOW REGULATOR	\$102.00
FLOW CONTROL		FR08-30F-0-N-M3.5	FR08-30F-0-N-/ M3.5 FLOW REGULATOR	\$102.00
FLOW CONTROL		FR10-20F-0-N-/M10	FR10-20F-0-N-/ M10 FLOW REGULATOR	\$112.00
FLOW CONTROL		FR10-20F-0-N-/M12	FR10-20F-0-N-/ M12 FLOW REGULATOR	\$112.00
FLOW CONTROL		FR10-20F-0-N-/M15	FR10-20F-0-N-/ M15 FLOW REGULATOR	\$112.00
FLOW CONTROL		FR10-20F-0-N/M20	FR10-20F-0-N-/ M20 FLOW REGULATOR	\$112.00
FLOW CONTROL		FR10-20F-0-N-/M5.0	FR10-20F-0-N-/ M5 FLOW REGULATOR	\$112.00
FLOW CONTROL		FR10-20F-0-N-/M8.5	FR10-20F-0-N-/ M8.5 FLOW REGULATOR	\$112.00
FLOW CONTROL		FR10-20F-0-N-/M9	FR10-20F-0-N-/ M9 FLOW REGULATOR	\$112.00
FLOW CONTROL		FR10-30F-0-N/0.2	FR10-30F-0-N-/ 0.20 FLOW REGULATOR	\$108.00
FLOW CONTROL		FR10-33A-0-N	FR10-33A-0-N FLOW CONTROL	\$196.00
FLOW CONTROL		FR10-33E-0-N	FR10-33E-0-N FLOW CONTROL	\$210.00
FLOW CONTROL		FR10-39A-0-N	FR10-39A-0-N FLOW REGULATOR	\$204.00
FLOW CONTROL		FR10-39C-0-N	FR10-39C-0-N FLOW CONTROL	\$218.00
FLOW CONTROL		FR10-39E-0-N	FR10-39E-0-N FLOW REGULATOR	\$218.00
FLOW CONTROL		FR12-20F-0-N-M34	FR12-20F-0-N-/ M34 FLOW REGULATOR	\$156.00
FLOW CONTROL		FR12-23A-0-N	FR12-23A-0-N FLOW CONTROL	\$264.00
FLOW CONTROL		FR12-23A-0-N\M23	FR12-23A-0-N-/M23 FLOW CONTROL	\$264.00
FLOW CONTROL		FR12-23A-0-N\M32	FR12-23A-0-N-/M32 FLOW CONTROL	\$264.00
FLOW CONTROL		FR12-23E-0-N	FR12-23E-0-N FLOW CONTROL	\$278.00
FLOW CONTROL		FR12-30F-0-N/M15	FR12-30F-0-N-/ M15 FLOW REGULATOR	\$180.00
FLOW CONTROL		FR12-30F-0-N/M5	FR12-30F-0-N-/M5 FLOW REGULATOR	\$180.00
FLOW CONTROL		FR12-33A-0-N	FR12-33A-0-N FLOW CONTROL	\$380.00
FLOW CONTROL		FR12-33E-0-N	FR12-33E-0-N FLOW CONTROL	\$394.00
FLOW CONTROL		FR16-20F-0-N/M56	FR16-20F-0-N-/M56 FLOW REGULATOR	\$176.00
FLOW CONTROL		FR16-20F-0-N/M80	FR16-20F-0-N-/M80 FLOW REGULATOR	\$176.00
FLOW CONTROL		FR16-20F-0-N/M97	FR16-20F-0-N-/M97 FLOW REGULATOR	\$176.00
FLOW CONTROL		FR16-30F-0-N-M70	FR16-30F-0-N-/M70 FLOW REGULATOR	\$252.00
FLOW CONTROL		FR50-20F-0-P/M1.0	FR50-20F-0-P-/M1.0 FLOW REGULATOR	\$156.00
FLOW CONTROL		FR50-23A-0-N	FR50-23A-0-N-/ FLOW REGULATOR	\$230.00
FLOW CONTROL		FR50-23C-0-N/M4.5	FR50-23C-0-N-/M4.5 FLOW REGULATOR	\$244.00
FLOW CONTROL		FR50-28A-0-N	FR50-28A-0-N-/ FLOW REGULATOR	\$252.00
FLOW CONTROL		FRRV10-41FA-0-NM3.0	FRRV10-41F/A-0-N-M3.0/	\$224.00
FLOW CONTROL		FRRV12-41FA-0-NM23.	FRRV12-41F/A-0-N-M23.0/ FC REL	\$320.00
FLOW CONTROL		HPV12-20-0-U-0	HPV12-20-0-U-0 CARTRIDGE	\$556.00
FLOW CONTROL		HPV12-21-0-U-0	HPV12-21-0-U-0 CARTRIDGE	\$566.00
FLOW CONTROL		HPV12-30T-0-U-0	HPV12-30T-0-U-0 FLOW CONTROL	\$700.00
FLOW CONTROL - PROPORTIONAL		HSP10-20-0-U-0	HSP10-20-0-U-0 SOLENOID VALVE	\$264.00
FLOW CONTROL - PROPORTIONAL		HSP10-47DB-0-U-0	HSP10-47DB-0-U-0 SOLENOID VALVE	\$604.00
FLOW CONTROL - PROPORTIONAL		HSPEC10-30A-0-U-0	HSPEC10-30A-0-U-0 SOLENOID VALVE	\$560.00
FLOW CONTROL - PROPORTIONAL		HSPEC12-30A-0-U-0	HSPEC12-30A-0-U-0 SOLENOID VALVE	\$628.00
FLOW CONTROL - PROPORTIONAL		HSPEC16-30-0-U-0	HSPEC16-30-0-U-00	\$678.00
FLOW CONTROL - PROPORTIONAL		PV08-30A-0-N-0	PV08-30A-0-N-00 FLOW CONTROL	\$386.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV08-30AM-0-N-0	PV08-30AM-0-N-00 FLOW CONTROL	\$462.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV08-30BM-0-N-0	PV08-30BM-0-N-00 FLOW CONTROL	\$462.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV42-M30A-0-N-0	PV42-M30A-0-N-00 FLOW CONTROL	\$896.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV42-M30B-0-N-0	PV42-M30B-0-N-00 FLOW CONTROL	\$896.00
FLOW CONTROL - PROPORTIONAL		PV70-30A-0-N-0	PV70-30A-0-N-00 FLOW CONTROL	\$502.00
FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV70-30AG-0-N-0	PV70-30AG-0-N-00 FLOW CONTROL	\$590.00

Product type	Option	Code	Description	List price
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV70-30AM-0-N-0	PV70-30AM-0-N-00 FLOW CONTROL	\$576.00
FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV70-30BG-0-N-0	PV70-30BG-0-N-00 FLOW CONTROL	\$590.00
FLOW CONTROL - PROPORTIONAL		PV70-33A-0-N-0	PV70-33A-0-N-00 CARTRIDGE ASSEMBLY	\$468.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV70-33AM-0-N-0	PV70-33AM-0-N-00 CARTRIDGE ASSEMBLY	\$544.00
FLOW CONTROL - PROPORTIONAL		PV70-33B-0-N-0	PV70-33B-0-N-00 CARTRIDGE ASSEMBLY	\$468.00
FLOW CONTROL - PROPORTIONAL		PV70-33C-0-N-0	PV70-33C-0-N-00 CARTRIDGE ASSEMBLY	\$468.00
FLOW CONTROL - PROPORTIONAL		PV72-20-0-N-0	PV72-20-0-N-00 FLOW CONTROL	\$544.00
FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV72-20BG-0-N-0	PV72-20BG-0-N-00 FLOW CONTROL	\$632.00
FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV72-20G-0-N-0	PV72-20G-0-N-00 FLOW CONTROL	\$632.00
FLOW CONTROL - PROPORTIONAL		PV72-21-0-N-0	PV72-21-0-N-00 FLOW CONTROL	\$544.00
FLOW CONTROL - PROPORTIONAL		PV72-30A-0-N-0	PV72-30A-0-N-00 FLOW CONTROL	\$584.00
FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV72-30AG-0-N-0	PV72-30AG-0-N-00 FLOW CONTROL	\$672.00
FLOW CONTROL - PROPORTIONAL		PV72-30B-0-N-0	PV72-30B-0-N-00 FLOW CONTROL	\$584.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV72-30BM-0-N-0	PV72-30BM-0-N-00 FLOW CONTROL	\$658.00
FLOW CONTROL - PROPORTIONAL		PV72-33A-0-N-0	PV72-33A-0-N-00 FLOW CONTROL	\$520.00
FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV72-33AG-0-N-0	PV72-33AG-0-N-00 FLOW CONTROL	\$610.00
FLOW CONTROL - PROPORTIONAL		PV72-33B-0-N-0	PV72-33B-0-N-00 FLOW CONTROL	\$520.00
FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV72-33BG-0-N-0	PV72-33BG-0-N-00 FLOW CONTROL	\$610.00
FLOW CONTROL - PROPORTIONAL		PV76-30A-0-N-0	PV76-30A-0-N-00 N.C. FLOW CONTROL	\$730.00
FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV76-30AG-0-N-0	PV76-30AG-0-N-00 N.C. FLOW CONTROL	\$818.00
FLOW CONTROL - PROPORTIONAL		SP08-20-0-N-0	SP08-20-0-N-00 SOLENOID VALVE	\$218.00
FLOW CONTROL - PROPORTIONAL		SP08-20A-0-N-0	SP08-20A-0-N-00 SOLENOID VALVE	\$238.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP08-20M-0-N-0	SP08-20M-0-N-00 SOLENOID VALVE	\$292.00
FLOW CONTROL - PROPORTIONAL		SP08-21-0-N-0	SP08-21-0-N-00 SOLENOID VALVE	\$274.00
FLOW CONTROL - PROPORTIONAL		SP08-24-0-N-0	SP08-24-0-N-00 SOLENOID VALVE	\$272.00
FLOW CONTROL - PROPORTIONAL		SP08-47C-0-N-0	SP08-47C-0-N-00 PROPORTIONAL VALVE	\$254.00
FLOW CONTROL - PROPORTIONAL		SP08-47CL-0-N-0	SP08-47CL-0-N-00 SOLENOID VALVE	\$272.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP08-47CM-0-N-0	SP08-47CM-0-N-00 SOLENOID VALVE	\$346.00
FLOW CONTROL - PROPORTIONAL		SP08-47D-0-N-0	SP08-47D-0-N-00 PROPORTIONAL VALVE	\$258.00
FLOW CONTROL - PROPORTIONAL		SP08-47DB-0-N-0	SP08-47DB-0-N-00 SOLENOID VALVE	\$364.00
FLOW CONTROL - PROPORTIONAL		SP08-47DL-0-N-0	SP08-47DL-0-N-00 SOLENOID VALVE	\$278.00
FLOW CONTROL - PROPORTIONAL		SP08-57DB-0-N-0	SP08-57DB-0-N-00 SOLENOID VALVE	\$410.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP08-57DM-0-N-0	SP08-57DM-0-N-00 SOLENOID VALVE	\$400.00
FLOW CONTROL - PROPORTIONAL		SP10-20-0-N-0	SP10-20-0-N-00 SOLENOID VALVE	\$230.00
FLOW CONTROL - PROPORTIONAL		SP10-21-0-N-0	SP10-21-0-N-00 SOLENOID VALVE	\$342.00
FLOW CONTROL - PROPORTIONAL		SP10-24-0-N-0	SP10-24-0-N-00 SOLENOID VALVE	\$306.00
FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH KNOB	SP10-24K-0-N-0	SP10-24K-0-N-00 SOLENOID VALVE	\$350.00
FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH PIN	SP10-24P-0-N-0	SP10-24P-0-N-00 SOLENOID VALVE	\$340.00
FLOW CONTROL - PROPORTIONAL		SP10-47C-0-N-0	SP10-47C-0-N-00 PROPORTIONAL VALVE	\$306.00
FLOW CONTROL - PROPORTIONAL		SP10-47D-0-N-0	SP10-47D-0-N-00 SOLENOID VALVE	\$302.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP10-47DM-0-N-0	SP10-47DM-0-N-00 SOLENOID VALVE	\$394.00
FLOW CONTROL - PROPORTIONAL		SP10-57C-0-N-0	SP10-57C-0-N-00 SOLENOID VALVE	\$346.00
FLOW CONTROL - PROPORTIONAL		SP10-57D-0-N-0	SP10-57D-0-N-00 SOLENOID VALVE	\$342.00
FLOW CONTROL - PROPORTIONAL		SP10-58D-0-N-0	SP10-58D-0-N-00 SOLENOID VALVE	\$346.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP10-58DM-0-N-0	SP10-58DM-0-N-00 SOLENOID VALVE	\$434.00
FLOW CONTROL - PROPORTIONAL		SP12-20-0-N-0	SP12-20-0-N-00 SOLENOID VALVE	\$298.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP12-20M-0-N-0	SP12-20M-0-N-00 SOLENOID VALVE	\$374.00
FLOW CONTROL - PROPORTIONAL		SP12-21-0-N-0	SP12-21-0-N-00 SOLENOID VALVE	\$342.00
FLOW CONTROL - PROPORTIONAL		SP16-20-0-N-0	SP16-20-0-N-00 SOLENOID VALVE	\$332.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP16-20M-0-N-0	SP16-20M-0-N-00 SOLENOID VALVE	\$408.00
FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH KNUR	SP16-20Y-0-N-0	SP16-20Y-0-N-00 SOLENOID VALVE	\$434.00
FLOW CONTROL - PROPORTIONAL		SPCL10-32-0-N-0	SPCL10-32-0-N-00 SOLENOID VALVE	\$292.00
FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SPCL10-32M-0-N-0	SPCL10-32M-0-N-00 SOLENOID VALVE	\$366.00
FLOW CONTROL - PROPORTIONAL		ZL70-30A-0-N-0	ZL70-30A-0-N-00 FLOW CONTROL	\$546.00
FLOW CONTROL - PROPORTIONAL		ZL70-30B-0-N-0	ZL70-30B-0-N-00 FLOW CONTROL	\$546.00
HAND PUMP		HP10-20D-0-N	HP10-20D-0-N HAND PUMP	\$184.00
HAND PUMP		HP10-21A-0-N-A	HP10-21A-0-N-A HAND PUMP	\$296.00
HAND PUMP		HP10-21A-0-N-B	HP10-21A-0-N-B HAND PUMP	\$296.00
HAND PUMP		HP10-21B-0-N-A	HP10-21B-0-N-A HAND PUMP	\$296.00
HAND PUMP		HP10-21B-0-N-B	HP10-21B-0-N-B HAND PUMP	\$296.00
HAND PUMP		HP16-21A-0-N	HP16-21A-0-N HAND PUMP	\$386.00
HAND PUMP		HP16-21A-0-V	HP16-21A-0-V HAND PUMP	\$400.00
LOCK VALVE		DCV08-6T-N	DCV08-6T-N LOCK VALVE	\$258.00
LOCK VALVE		DCV08-6T-N-100	DCV08-6T-N-100 LOCK VALVE	\$258.00
LOCK VALVE		DCV08-6T-N-200	DCV08-6T-N-200 LOCK VALVE	\$258.00
LOCK VALVE		DCV08-6T-N-270	DCV08-6T-N-270 LOCK VALVE	\$258.00
LOCK VALVE		DCV08-6T-N-60	DCV08-6T-N-60 LOCK VALVE	\$258.00
LOCK VALVE		DCV08-8T-N	DCV08-8T-N LOCK VALVE	\$258.00
LOCK VALVE		DCV08-8T-N-100	DCV08-8T-N-100 LOCK VALVE	\$258.00
LOCK VALVE		DCV08-8T-N-200	DCV08-8T-N-200 LOCK VALVE	\$258.00
LOCK VALVE		DCV08-8T-N-60	DCV08-8T-N-60 LOCK VALVE	\$258.00
LOCK VALVE		DCV10-6T-N	DCV10-6T-N LOCK VALVE	\$264.00
LOCK VALVE		DCV10-6T-N-100	DCV10-6T-N-100 LOCK VALVE	\$264.00
LOCK VALVE		DCV10-6T-N-200	DCV10-6T-N-200 LOCK VALVE	\$264.00
LOCK VALVE		DCV10-6T-N-40	DCV10-6T-N-40 LOCK VALVE	\$264.00

Product type	Option	Code	Description	List price
LOCK VALVE		DCV10-8T-N	DCV10-8T-N LOCK VALVE	\$264.00
LOCK VALVE		DCV10-8T-N-100	DCV10-8T-N-100 LOCK VALVE	\$264.00
LOCK VALVE		DCV10-8T-N-200	DCV10-8T-N-200 LOCK VALVE	\$264.00
LOCK VALVE		DCV10-8T-N-300	DCV10-8T-N-300 LOCK VALVE	\$264.00
LOCK VALVE		DCV10-8T-N-40	DCV10-8T-N-40 LOCK VALVE	\$264.00
LOCK VALVE		DCV10-8T-N-70	DCV10-8T-N-70 LOCK VALVE	\$264.00
LOGIC ELEMENT		EP08-35-0-N-110	EP08-35-0-N-110 LOGIC ELEMENT	\$98.00
LOGIC ELEMENT		EP08-35-0-N-150	EP08-35-0-N-150 LOGIC ELEMENT	\$98.00
LOGIC ELEMENT		EP08-35-0-N-40	EP08-35-0-N-40 LOGIC ELEMENT	\$98.00
LOGIC ELEMENT		EP08-35-0-N-80	EP08-35-0-N-80 LOGIC ELEMENET	\$98.00
LOGIC ELEMENT		EP10-S35-0-N-10	EP10-S35-0-N-10 PILOTED ELEMENT	\$118.00
LOGIC ELEMENT		EP10-S35-0-N-110	EP10-S35-0-N-110 PILOTED ELEMENT	\$118.00
LOGIC ELEMENT		EP10-S35-0-N-40	EP10-S35-0-N-40 PILOTED ELEMENT	\$118.00
LOGIC ELEMENT		EP10-S35-0-N-80	EP10-S35-0-N-80 PILOTED ELEMENT	\$118.00
LOGIC ELEMENT		EP10-S35T-0-N-160	EP10-S35T-0-N-160 LOGIC ELEMENT	\$136.00
LOGIC ELEMENT		EP10-S35T-0-N-230	EP10-S35T-0-N-230 LOGIC ELEMENT	\$136.00
LOGIC ELEMENT		EP10-S38-0-N-160	EP10-S38-0-N-160 LOGIC ELEMENT	\$142.00
LOGIC ELEMENT		EP10-S38-0-N-80	EP10-S38-0-N-80 LOGIC ELEMENT	\$142.00
LOGIC ELEMENT		EP12-S35-0-N-10	EP12-S35-0-N-10 LOGIC ELEMENT	\$150.00
LOGIC ELEMENT		EP12-S35-0-N-100	EP12-S35-0-N-100 LOGIC ELEMENET	\$150.00
LOGIC ELEMENT		EP12-S35-0-N-40	EP12-S35-0-N-40 LOGIC ELEMENT	\$150.00
LOGIC ELEMENT		EP12-S35-0-N-80	EP12-S35-0-N-80 LOGIC ELEMENT	\$150.00
LOGIC ELEMENT		EP12-S35T-0-N-160	EP12-S35T-0-N-160 LOGIC ELEMENT	\$162.00
LOGIC ELEMENT		EP12-S35T-0-N-240	EP12-S35T-0-N-240 LOGIC ELEMENT	\$162.00
LOGIC ELEMENT		EP12-S35TG-0-N-160	EP12-S35TG-0-N-160 LOGIC ELEMENT	\$176.00
LOGIC ELEMENT		EP16-S35-0-N-70	EP16-S35-0-N-70 LOGIC ELEMENT	\$150.00
LOGIC ELEMENT		EP16-S35T-0-N-110	EP16-S35T-0-N-110 LOGIC ELEMENT	\$184.00
LOGIC ELEMENT		EP16-S35T-0-N-160	EP16-S35T-0-N-160 LOGIC ELEMENT	\$184.00
LOGIC ELEMENT		EP16-S35T-0-N-240	EP16-S35T-0-N-240 LOGIC ELEMENT	\$184.00
LOGIC ELEMENT		EP16-S35T-0-V-110	EP16-S35T-0-V-110 LOGIC ELEMENT	\$204.00
LOGIC ELEMENT		EP16-S35T-0-V-160	EP16-S35T-0-V-160 LOGIC ELEMENT	\$204.00
LOGIC ELEMENT		EP16-S35T-0-V-240	EP16-S35T-0-V-240 LOGIC ELEMENT	\$204.00
LOGIC ELEMENT		EP20-S35-0-N-160	EP20-S35-0-N-160 ELEMENT (PILOTED)	\$264.00
LOGIC ELEMENT		EP20-S35-0-N-20	EP20-S35-0-N-20 ELEMENT (PILOTED)	\$264.00
LOGIC ELEMENT		EP20-S35-0-N-80	EP20-S35-0-N-80 ELEMENT (PILOTED)	\$264.00
LOGIC ELEMENT		EP20-S38-0-P-40	EP20-S38-0-P-40 LOGIC ELEMENT	\$366.00
LOGIC ELEMENT		EP20-S38-0-P-80	EP20-S38-0-P-80 LOGIC ELEMENT	\$366.00
LOGIC ELEMENT		EP20-S39-0-P-160	EP20-S39-0-P-160 LOGIC ELEMENT	\$454.00
LOGIC ELEMENT		EPFR50-S35T-0-N-160	EPFR50-S35T-0-N-160 PILOTED ELEMENT	\$230.00
LOGIC ELEMENT		EPFR50-S35T-0-N-230	EPFR50-S35T-0-N-230 PILOTED ELEMENT	\$230.00
LOGIC ELEMENT		EPFR52-S35T-0-N-240	EPFR52-S35T-0-N-240 PILOTED ELE.	\$252.00
LOGIC ELEMENT		EPFR58-35-0-N-110	EPFR58-35-0-N-110 LOGIC ELEMENT	\$170.00
LOGIC ELEMENT		ER10-S30-0-N	ER10-S30-0-N CARTRIDGE	\$150.00
LOGIC ELEMENT		EV10-S34-0-N-10	EV10-S34-0-N-10 VENTED ELEMENT	\$136.00
LOGIC ELEMENT		EV10-S34-0-N-110	EV10-S34-0-N-110 VENTED ELEMENT	\$136.00
LOGIC ELEMENT		EV10-S34-0-N-80	EV10-S34-0-N-80 VENTED ELEMENT	\$136.00
LOGIC ELEMENT		EV10-S34T-0-N-160	EV10-S34T-0-N-160 LOGIC ELEMENT	\$150.00
LOGIC ELEMENT		EV12-S34-0-N-10	EV12-S34-0-N-10 CARTRIDGE	\$160.00
LOGIC ELEMENT		EV12-S34-0-N-100	EV12-S34-0-N-100 CARTRIDGE	\$160.00
LOGIC ELEMENT		EV12-S34-0-N-80	EV12-S34-0-N-80 CARTRIDGE	\$160.00
LOGIC ELEMENT		EV16-S34-0-N-10	EV16-S34-0-N-10 LOGIC ELEMENT	\$170.00
LOGIC ELEMENT		EV16-S34-0-N-70	EV16-S34-0-N-70 LOGIC ELEMENT	\$170.00
LOGIC ELEMENT		EV16-S34T-0-N-160	EV16-S34T-0-N-160 LOGIC ELEMENT	\$196.00
LOGIC ELEMENT		EV16-S34T-0-N-240	EV16-S34T-0-N-240 LOGIC ELEMENT	\$196.00
LOGIC ELEMENT		EV20-S34-0-N-20	EV20-S34-0-N-20 ELEMENT (VENTED)	\$272.00
LOGIC ELEMENT		EV20-S34-0-P-50	EV20-S34-0-P-50 ELEMENT (VENTED)	\$332.00
LOGIC ELEMENT		EV20-S34-0-P-80	EV20-S34-0-P-80 ELEMENT (VENTED)	\$332.00
LOGIC ELEMENT		HEP42-S35-0-U-80	HEP42-S35-0-U-80 CARTRIDGE	\$298.00
MANUAL VALVE	CABLE OVERRIDE	MP08-20J-0-N	MP08-20J-0-N MANUAL PULL VALVE	\$132.00
MANUAL VALVE	PLASTIC KNOB	MP08-20K-0-N	MP08-20K-0-N MANUAL PULL VALVE	\$128.00
MANUAL VALVE	THREADED SPRING RETURN	MP08-20T-0-N	MP08-20T-0-N MANUAL PULL VALVE	\$118.00
MANUAL VALVE	KNOB W/ POSITION PIN	MP08-30D-0-N	MP08-30D-0-N MANUAL PULL VALVE	\$184.00
MANUAL VALVE	CABLE OVERRIDE	MP08-30J-0-N	MP08-30J-0-N MANUAL PULL VALVE	\$184.00
MANUAL VALVE	PLASTIC KNOB	MP08-30K-0-N	MP08-30K-0-N MANUAL PULL VALVE	\$180.00
MANUAL VALVE	THREADED SPRING RETURN	MP08-30T-0-N	MP08-30T-0-N MANUAL PULL VALVE	\$170.00
MANUAL VALVE	PLASTIC KNOB	MP08-34K-0-N	MP08-34K-0-N MANUAL PULL VALVE	\$180.00
MANUAL VALVE	THREADED SPRING RETURN	MP08-34T-0-N	MP08-34T-0-N MANUAL PULL VALVE	\$170.00
MANUAL VALVE	PLASTIC KNOB	MP08-40K-0-N	MP08-40K-0-N MANUAL PULL VALVE	\$204.00
MANUAL VALVE	KNOB W/ POSITION PIN	MP10-20D-0-N	MP10-20D-0-N MANUAL PULL VALVE	\$132.00
MANUAL VALVE	CABLE OVERRIDE	MP10-20J-0-N	MP10-20J-0-N MANUAL PULL VALVE	\$136.00
MANUAL VALVE	PLASTIC KNOB	MP10-20K-0-N	MP10-20K-0-N MANUAL PULL VALVE	\$128.00
MANUAL VALVE	THREADED SPRING RETURN	MP10-20T-0-N	MP10-20T-0-N MANUAL PULL VALVE	\$122.00
MANUAL VALVE	PLASTIC KNOB	MP10-22-K-0-N	MP10-22K-0-N MANUAL PULL VALVE	\$184.00
MANUAL VALVE	RED KNOB W/POS PIN	MP10-22L-0-N	MP10-22L-0-N MANUAL PULL VALVE	\$190.00
MANUAL VALVE	RED KNOB W/POS PIN	MP10-22L-0-V	MP10-22L-0-V MANUAL PULL VALVE	\$200.00

Product type	Option	Code	Description	List price
MANUAL VALVE	KNOB W/ POSITION PIN	MP10-40D-0-N	MP10-40D-0-N MANUAL PULL VALVE	\$210.00
MANUAL VALVE	THREADED SPRING RETURN	MP10-40T-0-N	MP10-40T-0-N MANUAL PULL VALVE	\$196.00
MANUAL VALVE	PLASTIC KNOB	MP10-42K-0-N	MP10-42K-0-N MANUAL PULL VALVE	\$208.00
MANUAL VALVE		MR10-20-A-0-N	MR10-20A-0-N MANUAL ROTARY VALVE	\$162.00
MANUAL VALVE		MR10-20-B-0-N	MR10-20B-0-N MANUAL ROTARY VALVE	\$162.00
MANUAL VALVE		MR10-20-C-0-N	MR10-20C-0-N MANUAL ROTARY VALVE	\$162.00
MANUAL VALVE		MR10-31-0-N	MR10-31-0-N CARTRIDGE ASSEMBLY	\$186.00
MANUAL VALVE		MR10-40-0-N	MR10-40-0-N CARTRIDGE ASSEMBLY	\$268.00
MANUAL VALVE		MR10-47A-0-N	MR10-47A-0-N CARTRIDGE ASSEMBLY	\$278.00
MANUAL VALVE		MR10-47B-0-N	MR10-47B-0-N CARTRIDGE ASSEMBLY	\$278.00
MANUAL VALVE		MR10-47C-0-N	MR10-47C-0-N CARTRIDGE ASSEMBLY	\$278.00
MANUAL VALVE		MR10-47D-0-N	MR10-47D-0-N CARTRIDGE ASSEMBLY	\$278.00
MANUAL VALVE		MV08-22-N	MV08-22-0-N MANUAL RELEASE VALVE	\$116.00
NEEDLE VALVE		NV08-20A-0-N	NV08-20A-0-N NEEDLE VALVE	\$82.00
NEEDLE VALVE		NV08-20B-0-N	NV08-20B-0-N NEEDLE VALVE	\$102.00
NEEDLE VALVE		NV08-20C-0-N	NV08-20C-0-N NEEDLE VALVE CARTRIDG	\$92.00
NEEDLE VALVE		NV08-20D-0-N	NV08-20D-0-N NEEDLE VALVE	\$96.00
NEEDLE VALVE		NV08-20D-0-V	NV08-20D-0-V NEEDLE VALVE	\$102.00
NEEDLE VALVE		NV08-21E-0-N	NV08-21E-0-N NEEDLE VALVE W/KNOB	\$96.00
NEEDLE VALVE		NV08-23A-0-N	NV08-23A-0-N NEEDLE VALVE	\$98.00
NEEDLE VALVE		NV08-23B-0-N	NV08-23B-0-N NEEDLE VALVE	\$116.00
NEEDLE VALVE		NV10-20A-0-N	NV10-20A-0-N NEEDLE VALVE	\$82.00
NEEDLE VALVE		NV10-20B-0-N	NV10-20B-0-N NEEDLE VALVE	\$102.00
NEEDLE VALVE		NV10-20C-0-N	NV10-20C-0-N NEEDLE VALVE	\$96.00
NEEDLE VALVE		NV10-21E-0-N	NV10-21E-0-N NEEDLE VALVE	\$102.00
NEEDLE VALVE		NV10-21T-0-N	NV10-21T-0-N NEEDLE VALVE	\$88.00
NEEDLE VALVE		NV10-22A-0-N	NV10-22A-0-N NEEDLE VALVE	\$96.00
NEEDLE VALVE		NV10-22C-0-N	NV10-22C-0-N NEEDLE VALVE	\$106.00
NEEDLE VALVE		NV12-20A-0-N-0	NV12-20A-0-N NEEDLE VALVE	\$142.00
NEEDLE VALVE		NV12-20B-0-N-0	NV12-20B-0-N NEEDLE VALVE	\$162.00
PILOTED SPOOL VALVE		HPD16-44-0-U-150	HPD16-44-0-U-150 PILOTED 5-WAY	\$332.00
PILOTED SPOOL VALVE		HPD16-45-0-U-150	HPD16-45-0-U-150 PILOTED 5-WAY	\$332.00
PILOTED SPOOL VALVE		HPD16-S50-0-US-150	HPD16-S50-0-US-150 PILOTED 4-WAY	\$360.00
PILOTED SPOOL VALVE		HPD42-S50-0-US-160	HPD42-S50-0-US-160 PILOTED 4 WAY	\$610.00
PILOTED SPOOL VALVE		HPD42-S61-0-U-160	HPD42-S61-0-U-160 PILOTED 4-WAY	\$662.00
PILOTED SPOOL VALVE		HPD42-S67C-0-U-170	HPD42-S67C-0-U-170 PILOTED 5 WAY	\$662.00
PILOTED SPOOL VALVE		HPE16-45-0-U	HPE16-45-0-U CARTRIDGE	\$510.00
PILOTED SPOOL VALVE		HPE42-M44-0-U	HPE42-M44-0-U CARTRIDGE	\$618.00
PILOTED SPOOL VALVE		PD08-41-0-N-60	PD08-41-0-N-60 PILOTED 3-WAY	\$142.00
PILOTED SPOOL VALVE		PD08-41N-0-N-60	PD08-41N-0-N-60 PILOTED 3-WAY	\$150.00
PILOTED SPOOL VALVE		PD10-30-0-N-110	PD10-30-0-N-110 PILOTED 2-WAY	\$136.00
PILOTED SPOOL VALVE		PD10-30-0-N-170	PD10-30-0-N-170 PILOTED 2-WAY	\$136.00
PILOTED SPOOL VALVE		PD10-30-0-N-40	PD10-30-0-N-40 PILOTED 2-WAY	\$136.00
PILOTED SPOOL VALVE		PD10-30-0-N-60	PD10-30-0-N-60 PILOTED 2-WAY	\$136.00
PILOTED SPOOL VALVE		PD10-30-0-NS-110	PD10-30-0-NS-110 PILOTED 2-WAY	\$140.00
PILOTED SPOOL VALVE		PD10-30-0-NS-170	PD10-30-0-NS-170 PILOTED 2-WAY	\$140.00
PILOTED SPOOL VALVE		PD10-30-0-V-40	PD10-30-0-V-40 PILOTED 2-WAY	\$150.00
PILOTED SPOOL VALVE		PD10-32-0-N-110	PD10-32-0-N-110 PILOTED 2-WAY	\$136.00
PILOTED SPOOL VALVE		PD10-32-0-N-170	PD10-32-0-N-170 PILOTED 2-WAY	\$136.00
PILOTED SPOOL VALVE		PD10-32-0-N-40	PD10-32-0-N-40 PILOTED 2-WAY	\$136.00
PILOTED SPOOL VALVE		PD10-32-0-N-60	PD10-32-0-N-60 PILOTED 2-WAY	\$136.00
PILOTED SPOOL VALVE		PD10-32-0-NS-170	PD10-32-0-NS-170 PILOTED 2-WAY	\$136.00
PILOTED SPOOL VALVE		PD10-34-0-N-110	PD10-34-0-N-110 PILOTED 2-WAY	\$142.00
PILOTED SPOOL VALVE		PD10-34-0-N-170	PD10-34-0-N-170 PILOTED 2-WAY	\$142.00
PILOTED SPOOL VALVE		PD10-34-0-N-40	PD10-34-0-N-40 PILOTED 2-WAY	\$142.00
PILOTED SPOOL VALVE		PD10-34-0-N-60	PD10-34-0-N-60 PILOTED 2-WAY	\$142.00
PILOTED SPOOL VALVE		PD10-34-0-NS-110	PD10-34-0-NS-110 PILOTED 2-WAY	\$146.00
PILOTED SPOOL VALVE		PD10-35-0-N-110	PD10-35-0-N-110 PILOTED 2-WAY	\$142.00
PILOTED SPOOL VALVE		PD10-35-0-N-170	PD10-35-0-N-170 PILOTED 2-WAY	\$142.00
PILOTED SPOOL VALVE		PD10-35-0-N-40	PD10-35-0-N-40 PILOTED 2-WAY	\$142.00
PILOTED SPOOL VALVE		PD10-35-0-N-60	PD10-35-0-N-60 PILOTED 2-WAY	\$142.00
PILOTED SPOOL VALVE		PD10-35-0-NS-170	PD10-35-0-NS-170 PILOTED 2-WAY	\$142.00
PILOTED SPOOL VALVE		PD10-40-0-N-110	PD10-40-0-N-110 PILOTED 3-WAY	\$146.00
PILOTED SPOOL VALVE		PD10-40-0-N-130	PD10-40-0-N-130 PILOTED 3-WAY	\$146.00
PILOTED SPOOL VALVE		PD10-40-0-N-170	PD10-40-0-N-170 PILOTED 3-WAY	\$146.00
PILOTED SPOOL VALVE		PD10-40-0-N-40	PD10-40-0-N-40 PILOTED 3-WAY	\$146.00
PILOTED SPOOL VALVE		PD10-40-0-N-60	PD10-40-0-N-60 PILOTED 3-WAY	\$146.00
PILOTED SPOOL VALVE		PD10-40-0-NS-110	PD10-40-0-NS-110 PILOTED 3-WAY	\$150.00
PILOTED SPOOL VALVE		PD10-40-0-NS-170	PD10-40-0-NS-170 PILOTED 3-WAY	\$150.00
PILOTED SPOOL VALVE		PD10-40N-0-N-170	PD10-40N-0-N-170 PILOTED 3-WAY	\$152.00
PILOTED SPOOL VALVE		PD10-40N-0-NS-110	PD10-40N-0-NS-110 PILOTED 3-WAY	\$156.00
PILOTED SPOOL VALVE		PD10-41-0-N-110	PD10-41-0-N-110 PILOTED 3-WAY	\$150.00
PILOTED SPOOL VALVE		PD10-41-0-N-170	PD10-41-0-N-170 PILOTED 3-WAY	\$150.00
PILOTED SPOOL VALVE		PD10-41-0-N-60	PD10-41-0-N-60 PILOTED 3-WAY	\$150.00
PILOTED SPOOL VALVE		PD10-41-0-NS-110	PD10-41-0-NS-110 PILOTED 3-WAY	\$150.00

Product type	Option	Code	Description	List price
PILOTED SPOOL VALVE		PD10-41T-0-N-200	PD10-41T-0-N-200 PILOTED 3-WAY	\$190.00
PILOTED SPOOL VALVE		PD10-42-0-N-110	PD10-42-0-N-110 PILOTED 3-WAY	\$150.00
PILOTED SPOOL VALVE		PD10-42-0-NS-110	PD10-42-0-NS-110 PILOTED 3-WAY	\$150.00
PILOTED SPOOL VALVE		PD10-42-0-VS-110	PD10-42-0-VS-110 PILOTED 3-WAY	\$162.00
PILOTED SPOOL VALVE		PD10-44-0-N-170	PD10-44-0-N-170 PILOTED 2-WAY	\$146.00
PILOTED SPOOL VALVE		PD10-44-0-N-60	PD10-44-0-N-60 PILOTED 2-WAY	\$146.00
PILOTED SPOOL VALVE		PD10-44-0-VS-110	PD10-44-0-VS-110 PILOTED 2-WAY	\$162.00
PILOTED SPOOL VALVE		PD10-45-0-N-110	PD10-45-0-N-110 PILOTED 2-WAY	\$146.00
PILOTED SPOOL VALVE		PD10-45-0-N-60	PD10-45-0-N-60 PILOTED 2-WAY	\$146.00
PILOTED SPOOL VALVE		PD10-50N-0-N-100	PD10-50N-0-N-100 PILOTED 3 -WAY	\$208.00
PILOTED SPOOL VALVE		PD10-50N-0-N-150	PD10-50N-0-N-150 PILOTED 4-WAY	\$208.00
PILOTED SPOOL VALVE		PD10-50N-0-N-230	PD10-50N-0-N-230 PILOTED 4-WAY	\$208.00
PILOTED SPOOL VALVE		PD10-S62-0-N-150	PD10-S62-0-N-150 PILOTED 5 WAY	\$230.00
PILOTED SPOOL VALVE		PD12-30-0-N-110	PD12-30-0-N-110 PILOTED 2-WAY	\$184.00
PILOTED SPOOL VALVE		PD12-30-0-N-170	PD12-30-0-N-170 PILOTED 2-WAY	\$184.00
PILOTED SPOOL VALVE		PD12-34-0-N-110	PD12-34-0-N-110 PILOTED 2-WAY	\$184.00
PILOTED SPOOL VALVE		PD12-34-0-N-170	PD12-34-0-N-170 PILOTED 2-WAY	\$184.00
PILOTED SPOOL VALVE		PD12-34-0-NS-110	PD12-34-0-NS-110 PILOTED 2-WAY	\$190.00
PILOTED SPOOL VALVE		PD12-40-0-N-110	PD12-40-0-N-110 PILOTED 3-WAY	\$218.00
PILOTED SPOOL VALVE		PD12-40-0-NS-110	PD12-40-0-NS-110 PILOTED 3-WAY	\$218.00
PILOTED SPOOL VALVE		PD12-40-0-NS-170	PD12-40-0-NS-170 PILOTED 3-WAY	\$218.00
PILOTED SPOOL VALVE		PD12-40N-0-PS-110	PD12-40N-0-PS-110 PILOTED 3-WAY	\$286.00
PILOTED SPOOL VALVE		PD12-40-N-170	PD12-40-0-N-170 PILOTED 3-WAY	\$218.00
PILOTED SPOOL VALVE		PD12-41-0-N-110	PD12-41-0-N-110 PILOTED 3-WAY	\$218.00
PILOTED SPOOL VALVE		PD12-41-0-N-170	PD12-41-0-N-170 PILOTED 3-WAY	\$218.00
PILOTED SPOOL VALVE		PD12-44-0-N-110	PD12-44-0-N-110 PILOTED 2-WAY	\$218.00
PILOTED SPOOL VALVE		PD12-44-0-N-170	PD12-44-0-N-170 PILOTED 2-WAY	\$218.00
PILOTED SPOOL VALVE		PD12-45-0-N-170	PD12-45-0-N-170 PILOTED 3-WAY	\$218.00
PILOTED SPOOL VALVE		PD12-S50-0-N-110	PD12-S50-0-N-110 PILOTED 4-WAY	\$244.00
PILOTED SPOOL VALVE		PD12-S50-0-NS-110	PD12-S50N-0-NS-110 PILOTED 4-WAY	\$244.00
PILOTED SPOOL VALVE		PD12-S60N-0-N-110	PD12-S60N-0-N-110 PILOTED 5-WAY	\$272.00
PILOTED SPOOL VALVE		PD12-S61N-0-N-110	PD12-S61N-0-N-110 CARTRIDGE	\$274.00
PILOTED SPOOL VALVE		PD16-40-0-N-110	PD16-40-0-N-110 PILOTED 3-WAY	\$262.00
PILOTED SPOOL VALVE		PD16-40-0-N-80	PD16-40-0-N-80 PILOTED 3-WAY	\$262.00
PILOTED SPOOL VALVE		PD16-40-0-VS-170	PD16-40-0-VS-170 PILOTED 3-WAY	\$292.00
PILOTED SPOOL VALVE		PD16-40N-0-VS-170	PD16-40N-0-VS-170 PILOTED 3-WAY	\$298.00
PILOTED SPOOL VALVE		PD16-41-0-N-110	PD16-41-0-N-110 PILOTED 3-WAY	\$262.00
PILOTED SPOOL VALVE		PD16-41-0-N-170	PD16-41-0-N-170 PILOTED 3-WAY	\$262.00
PILOTED SPOOL VALVE		PD16-41-0-N-60	PD16-41-0-N-60 PILOTED 3-WAY	\$262.00
PILOTED SPOOL VALVE		PD16-42-0-N-110	PD16-42-0-N-110 PILOTED 3-WAY	\$262.00
PILOTED SPOOL VALVE		PD16-44-0-N-170	PD16-44-0-N-170 PILOTED 2-WAY	\$262.00
PILOTED SPOOL VALVE		PD16-44-0-NS-110	PD16-44-0-NS-110 PILOTED 2-WAY	\$264.00
PILOTED SPOOL VALVE		PD16-44-0-NS-170	PD16-44-0-NS-170 PILOTED 2-WAY	\$264.00
PILOTED SPOOL VALVE		PD16-45-0-N-170	PD16-45-0-N-170 PILOTED 2-WAY	\$254.00
PILOTED SPOOL VALVE		PD16-45-0-VS-170	PD16-45-0-VS-170 PILOTED 2-WAY	\$286.00
PILOTED SPOOL VALVE		PD16-S60N-0-N-170	PD16-S60N-0-N-170 PILOTED 5-WAY	\$292.00
PILOTED SPOOL VALVE		PD16-S61N-0-N-170	PD16-S61N-0-N-170 PILOTED 5-WAY	\$292.00
PILOTED SPOOL VALVE		PD16-S61N-0-VS-170	PD16-S61N-0-VS-170 PILOTED 5-WAY	\$340.00
PILOTED SPOOL VALVE		PD16-S67C-0-N-170	PD16-S67C-0-N-170 PILOTED 5-WAY	\$298.00
PILOTED SPOOL VALVE		PD16-S67D-0-N-110	PD16-S67D-0-N-110 PILOTED 5-WAY	\$298.00
PILOTED SPOOL VALVE		PD16-S67D-0-N-170	PD16-S67D-0-N-170 PILOTED 5-WAY	\$298.00
PILOTED SPOOL VALVE		PD42-M40-0-N-160	PD42-M40-0-N-160 PILOTED 3-WAY	\$526.00
PILOTED SPOOL VALVE		PD42-M40-0-P-160	PD42-M40-0-P-160 PILOTED 3-WAY	\$622.00
PILOTED SPOOL VALVE		PD42-M40N-0-N-160	PD42-M40N-0-N-160 PILOTED 3-WAY	\$540.00
PILOTED SPOOL VALVE		PD42-M41-0-PS-160	PD42-M41-0-PS-160 PILOTED 3-WAY	\$628.00
PILOTED SPOOL VALVE		PD42-M42-0-N-160	PD42-M42-0-N-160 PILOTED 3-WAY	\$526.00
PILOTED SPOOL VALVE		PD42-M42-0-P-160	PD42-M42-0-P-160 PILOTED 3-WAY	\$622.00
PILOTED SPOOL VALVE		PD42-M42-0-PS-160	PD42-M42-0-PS-160 PILOTED 3-WAY	\$628.00
PILOTED SPOOL VALVE		PD42-M45-0-N-160	PD42-M45-0-N-160 PILOTED 2-WAY	\$526.00
PILOTED SPOOL VALVE		PD42-S60N-0-N-170	PD42-S60N-0-N-170 PILOTED 5 WAY	\$536.00
PRESSURE COMPENSATOR		EC08-32-0-N-150	EC08-32-0-N-150 COMPENSATOR	\$116.00
PRESSURE COMPENSATOR		EC08-32-0-N-250	EC08-32-0-N-250 COMPENSATOR	\$116.00
PRESSURE COMPENSATOR		EC08-32-0-N-80	EC08-32-0-N-80 COMPENSATOR	\$116.00
PRESSURE COMPENSATOR		EC10-30-0-N-40	EC10-30-0-N-40 COMPENSATOR	\$116.00
PRESSURE COMPENSATOR		EC10-30-0-N-80	EC10-30-0-N-80 COMPENSATOR	\$116.00
PRESSURE COMPENSATOR		EC10-32-0-N-150	EC10-32-0-N-150 COMPENSATOR	\$136.00
PRESSURE COMPENSATOR		EC10-32-0-N-80	EC10-32-0-N-80 COMPENSATOR	\$136.00
PRESSURE COMPENSATOR		EC10-32-3B-N-150	EC10-32-3B-N-150 COMPENSATOR	\$286.00
PRESSURE COMPENSATOR		EC10-40-0-N-160	EC10-40-0-N-160 COMPENSATOR	\$126.00
PRESSURE COMPENSATOR		EC10-40-0-N-80	EC10-40-0-N-80 COMPENSATOR	\$126.00
PRESSURE COMPENSATOR		EC10-42-0-N-150	EC10-42-0-N-150 COMPENSATOR	\$136.00
PRESSURE COMPENSATOR		EC10-42-0-N-80	EC10-42-0-N-80 COMPENSATOR	\$136.00
PRESSURE COMPENSATOR		EC10-43-0-N-150	EC10-43-0-N-150 COMPENSATOR	\$174.00
PRESSURE COMPENSATOR		EC10-43-0-N-80	EC10-43-0-N-80 COMPENSATOR	\$174.00
PRESSURE COMPENSATOR		EC12-30-0-N-100	EC12-30-0-N-100 COMPENSATOR	\$162.00

Product type	Option	Code	Description	List price
PRESSURE COMPENSATOR		EC12-30-0-N-160	EC12-30-0-N-160 COMPENSATOR	\$162.00
PRESSURE COMPENSATOR		EC12-32-0-N-160	EC12-32-0-N-160 COMPENSATOR	\$210.00
PRESSURE COMPENSATOR		EC12-32-0-N-220	EC12-32-0-N-220 COMPENSATOR	\$210.00
PRESSURE COMPENSATOR		EC12-32-0-N-80	EC12-32-0-N-80 COMPENSATOR	\$210.00
PRESSURE COMPENSATOR		EC12-34-0-N-200	EC12-34-0-N-200 COMPENSATOR	\$272.00
PRESSURE COMPENSATOR		EC12-40-0-N-100	EC12-40-0-N-100 COMPENSATOR	\$208.00
PRESSURE COMPENSATOR		EC12-40-0-N-160	EC12-40-0-N-160 COMPENSATOR	\$208.00
PRESSURE COMPENSATOR		EC12-42-0-N-160	EC12-42-0-N-160 COMPENSATOR	\$220.00
PRESSURE COMPENSATOR		EC12-42-0-N-80	EC12-42-0-N-80 COMPENSATOR	\$220.00
PRESSURE COMPENSATOR		EC12-43-0-N-160	EC12-43-0-N-160 COMPENSATOR	\$258.00
PRESSURE COMPENSATOR		EC12-43-0-N-80	EC12-43-0-N-80	\$258.00
PRESSURE COMPENSATOR		EC16-32-0-N-160	EC16-32-0-N-160 COMPENSATOR	\$238.00
PRESSURE COMPENSATOR		EC16-32-0-N-80	EC16-32-0-N-80 COMPENSATOR	\$238.00
PRESSURE COMPENSATOR		EC16-34-0-N-200	EC16-34-0-N-200 COMPENSATOR	\$292.00
PRESSURE COMPENSATOR		EC16-42-0-N-150	EC16-42-0-N-150 COMPENSATOR	\$254.00
PRESSURE COMPENSATOR		EC16-42-0-N-80	EC16-42-0-N-80 COMPENSATOR	\$254.00
PRESSURE COMPENSATOR		EC16-43-0-N-80	EC16-43-0-N-80 COMPENSATOR	\$296.00
PRESSURE COMPENSATOR		EC42-M42-0-N-150	EC42-M42-0-N-150 COMPENSATOR	\$390.00
PRESSURE COMPENSATOR		EC42-M42-0-N-80	EC42-M42-0-N-80 COMPENSATOR	\$390.00
PRESSURE COMPENSATOR		EC50-30-0-P-80	EC50-30-0-P-80 COMPENSATOR	\$176.00
PRESSURE COMPENSATOR		EC50-42-0-P-150	EC50-42-0-P-150 COMPENSATOR	\$184.00
PRESSURE COMPENSATOR		EC50-42-0-P-80	EC50-42-0-P-80 COMPENSATOR	\$184.00
PRESSURE COMPENSATOR		EC50-43-0-P-150	EC50-43-0-P-150 COMPENSATOR	\$210.00
PRESSURE COMPENSATOR		HEC32-43-0-N-150	HEC32-43-0-N-150 COMPENSATOR	\$1,344.00
PRESSURE COMPENSATOR		HEC42-M43-0-U-150	HEC42-M43-0-U-150 COMPENSATOR	\$506.00
PRESSURE REDUCING		PR08-32A-0-N-12	PR08-32A-0-N-12/ REDUCING VALVE	\$150.00
PRESSURE REDUCING		PR08-32A-0-N-22	PR08-32A-0-N-22/ REDUCING VALVE	\$150.00
PRESSURE REDUCING		PR08-32A-0-N-3	PR08-32A-0-N-03/ REDUCING VALVE	\$150.00
PRESSURE REDUCING		PR08-32A-0-N-6	PR08-32A-0-N-06/ REDUCING VALVE	\$150.00
PRESSURE REDUCING		PR08-32A-0-V-12	PR08-32A-0-V-12/ REDUCING VALVE	\$156.00
PRESSURE REDUCING		PR08-32A-0-V-22	PR08-32A-0-V-22/ REDUCING VALVE	\$156.00
PRESSURE REDUCING		PR08-32A-0-V-6	PR08-32A-0-V-06/ REDUCING VALVE	\$156.00
PRESSURE REDUCING		PR08-32B-0-N-12	PR08-32B-0-N-12/ REDUCING VALVE	\$170.00
PRESSURE REDUCING		PR08-32C-0-V-6	PR08-32C-0-V-06/ REDUCING VALVE	\$166.00
PRESSURE REDUCING		PR08-32C-6T-V-06	PR08-32C-6T-V-06/ REDUCING VALVE	\$264.00
PRESSURE REDUCING		PR08-32F-0-N-3/M4.0	PR08-32F-0-N-03/M4 REDUCING VLV	\$146.00
PRESSURE REDUCING		PR08-32F-0-N-6/M26	PR08-32F-0-N-06/ M26 REDUCING VALVE	\$146.00
PRESSURE REDUCING		PR10-32A-0-N-15	PR10-32A-0-N-15/ REDUCING VALVE	\$156.00
PRESSURE REDUCING		PR10-32A-0-N-21	PR10-32A-0-N-21/ REDUCING VALVE	\$156.00
PRESSURE REDUCING		PR10-32A-0-N-4	PR10-32A-0-N-04/ REDUCING VALVE	\$156.00
PRESSURE REDUCING		PR10-32A-0-N-8	PR10-32A-0-N-08/ REDUCING VALVE	\$156.00
PRESSURE REDUCING		PR10-32B-0-N-21	PR10-32B-0-N-21/ REDUCING VALVE	\$176.00
PRESSURE REDUCING		PR10-36A-0-N-15	PR10-36A-0-N-15/ REDUCING VALVE	\$190.00
PRESSURE REDUCING		PR10-36A-0-N-30	PR10-36A-0-N-30/ REDUCING VALVE	\$190.00
PRESSURE REDUCING		PR10-36A-0-N-4	PR10-36A-0-N-04/ REDUCING VALVE	\$190.00
PRESSURE REDUCING		PR10-36AS-0-N-15	PR10-36A-0-N-15/01.5 REDUCING VALVE	\$190.00
PRESSURE REDUCING		PR10-36H-0-N-15	PR10-36H-0-N-15/ REDUCING VALVE	\$186.00
PRESSURE REDUCING		PR12-36A-0-N-15	PR12-36A-0-N-15/ REDUCING VALVE	\$258.00
PRESSURE REDUCING		PR12-36A-0-N-30	PR12-36A-0-N-30/ REDUCING VALVE	\$258.00
PRESSURE REDUCING		PR12-36A-0-N-4	PR12-36A-0-N-04/ REDUCING VALVE	\$258.00
PRESSURE REDUCING		PR12-36B-0-N-30	PR12-36B-0-N-30/ REDUCING VALVE	\$278.00
PRESSURE REDUCING		PR12-36H-0-N15/12.0	PR12-36H-0-N-15/12 REDUCING	\$254.00
PRESSURE REDUCING		PR50-36A-0-P-15	PR50-36A-0-P-15 /M29 REDUCING VALVE	\$200.00
PRESSURE REDUCING		PR50-36A-0-P-30	PR50-36A-0-P-30/ REDUCING VALVE	\$200.00
PRESSURE REDUCING		PR50-36A-0-P-50	PR50-36A-0-P-50/ REDUCING VALVE	\$200.00
PRESSURE REDUCING		PR50-36H-0-P-15	PR50-36H-0-P-15/ REDUCING VALVE	\$196.00
PRESSURE REDUCING		PR50-38A-0-P-05	PR50-38A-0-P-05/ REDUCING VALVE	\$264.00
PRESSURE REDUCING		PR50-38A-0-P-21	PR50-38A-0-P-21/ REDUCING VALV	\$264.00
PRESSURE REDUCING		PR50-38A-0-U-15	PR50-38A-0-U-15/ REDUCING VALVE	\$264.00
PRESSURE REDUCING		PR50-38B-0-N-21	PR50-38B-0-N-21/ REDUCING VALVE	\$264.00
PRESSURE REDUCING		PR58-38A-0-P-05	PR58-38A-0-P-05/ REDUCE/RELIEVE	\$228.00
PRESSURE REDUCING		PR58-38A-0-P-20	PR58-38A-0-P-20/ REDUCE/RELIEVE	\$228.00
PRESSURE REDUCING		PR58-38A-0-P-32/26.	PR58-38A-0-P-32/26 REDUCE/RELIEVE	\$228.00
PRESSURE REDUCING		PR58-38A-0-P-42	PR58-38A-0-P-42/ REDUCING VALVE	\$228.00
PRESSURE REDUCING		PR58-38H-0-P-05	PR58-38H-0-P-05/ REDUCE/RELIEVE	\$224.00
PRESSURE REDUCING		PR58-38RAS-P-05/M25	PR58-38RAS-0-P-05/M25 REDUCE/RELIEVE	\$262.00
PROPORTIONAL PILOTED		PE12-S67C-0-N	PE12-S67C-0-N PROPORTIONAL ELEMENT	\$278.00
PROPORTIONAL PILOTED		PE12-S67D-0-N	PE12-S67D-0-N PROPORTIONAL ELEMENT	\$278.00
PROPORTIONAL PILOTED		PE12-S67H-0-N	PE12-S67H-0-N PROPORTIONAL ELEMENT	\$278.00
PROPORTIONAL PILOTED		PE16-S67C-0-N	PE16-S67C-0-N PROPORTIONAL ELEMENT	\$336.00
PROPORTIONAL PILOTED		PE16-S67D-0-N	PE16-S67D-0-N PROPORTIONAL ELEMENT	\$336.00
PROPORTIONAL PILOTED		PE16-S67H-0-N	PE16-S67H-0-N PROPORTIONAL ELEMENT	\$336.00
PROPORTIONAL PILOTED		PE16-S67K-0-N	PE16-S67K-0-N PROPORTIONAL ELEMENT	\$336.00
PROPORTIONAL PILOTED		PE42-S67C-0-N	PE42-S67C-0-N PROPORTIONAL ELEMEN	\$604.00
PROPORTIONAL PILOTED		PE42-S67D-0-N	PE42-S67D-0-N PROPORTIONAL ELEMENT	\$614.00

Product type	Option	Code	Description	List price
PROPORTIONAL PILOTED		PE42-S67H-0-N	PE42-S67H-0-N PROPORTIONAL ELEMENT	\$604.00
PROPORTIONAL PILOTED		PE42-S67K-0-N	PE42-S67K-0-N PROPORTIONAL ELEMENT	\$600.00
PROPORTIONAL REDUCING		EHPR08-33-0-N-0	EHPR08-33-0-N-00 CARTRIDGE	\$312.00
PROPORTIONAL REDUCING	DIN CONNECTOR	EHPR08-33-0-N-12DG	EHPR08-33-0-N-12DG CARTRIDGE	\$398.00
PROPORTIONAL REDUCING		EHPR08-33M-0-N-0	EHPR08-33M-0-N-00 CARTRIDGE	\$380.00
PROPORTIONAL REDUCING	DEUTSCH CON.	EHPR08-33M-0-N-12ER	EHPR08-33M-0-N-12ER CARTRIDGE	\$448.00
PROPORTIONAL REDUCING	DEUTSCH CON.	EHPR08-33M-0-N-24ER	EHPR08-33M-0-N-24ER CARTRIDGE	\$448.00
PROPORTIONAL REDUCING	DEUTSCH CON.	EHPR98-T33-0-N-12ER	EHPR98-T33-0-N-12ER CONTROL VALVE	\$184.00
PROPORTIONAL REDUCING	DEUTSCH CON.	EHPR98-T33-0-N-24ER	EHPR98-T33-0-N-24ER CARTRIDGE	\$184.00
PROPORTIONAL REDUCING	DEUTSCH CON.	EHPR98-T38B-6TN24ER	EHPR98-T38B-6T-N-24ER CARTRIDGE	\$454.00
PROPORTIONAL RELIEF		TS08-20A-0-N-0	TS08-20A-0-N-00 PRESSURE CONTROL	\$272.00
PROPORTIONAL RELIEF		TS08-20B-0-N-0	TS08-20B-0-N-00 PRESSURE CONTROL	\$272.00
PROPORTIONAL RELIEF		TS08-27A-0-N-0	TS08-27A-0-N-00 PRESSURE CONTROL	\$320.00
PROPORTIONAL RELIEF		TS08-27B-0-N-0	TS08-27B-0-N-00 PRESSURE CONTROLS	\$320.00
PROPORTIONAL RELIEF		TS08-27B-0-V-0	TS08-27B-0-V-00 PRESSURE CONTROLS	\$326.00
PROPORTIONAL RELIEF		TS10-26A-0-N-0	TS10-26A-0-N-00 PRESSURE CONTROL	\$356.00
PROPORTIONAL RELIEF		TS10-26A-0-N-24	TS10-26A-0-N-24DG PRESSURE CONTROL	\$438.00
PROPORTIONAL RELIEF		TS10-26B-0-N-0	TS10-26B-0-N-00 PRESSURE CONTROL	\$356.00
PROPORTIONAL RELIEF		TS10-26C-0-N-0	TS10-26C-0-N-00 PRESSURE CONTROL	\$356.00
PROPORTIONAL RELIEF		TS10-27A-0-N-0	TS10-27A-0-N-00 PRESSURE CONTROL	\$364.00
PROPORTIONAL RELIEF		TS10-27B-0-N-0	TS10-27B-0-N-00 PRESSURE CONTROL	\$364.00
PROPORTIONAL RELIEF		TS10-27B-0-V-0	TS10-27B-0-V-00 PRESSURE CONTROL	\$374.00
PROPORTIONAL RELIEF		TS10-27C-0-N-0	TS10-27C-0-N-00 SOLENOID VALVE	\$364.00
PROPORTIONAL RELIEF		TS10-36A-0-N-0	TS10-36A-0-N-00 PRESSURE CONTROL	\$410.00
PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS10-36AM-0-N-0	TS10-36AM-0-N-00 PRESSURE CONTROL	\$476.00
PROPORTIONAL RELIEF		TS10-36B-0-N-0	TS10-36B-0-N-00 PRESSURE CONTROL	\$410.00
PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS10-36BM-0-N-0	TS10-36BM-0-N-00 PRESSURE CONTROL	\$476.00
PROPORTIONAL RELIEF		TS10-36C-0-N-0	TS10-36C-0-N-00 PRESSURE CONTROL	\$410.00
PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS10-36CM-0-N-0	TS10-36CM-0-N-00 PRESSURE CONTROL	\$476.00
PROPORTIONAL RELIEF		TS12-26A-0-N-0	TS12-26A-0-N-00 PRESSURE CONTROL	\$408.00
PROPORTIONAL RELIEF		TS12-26B-0-N-0	TS12-26B-0-N-00 PRESSURE CONTROL	\$408.00
PROPORTIONAL RELIEF		TS12-26C-0-N-0	TS12-26C-0-N-00 PRESSURE CONTROLS	\$408.00
PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS12-26CM-0-N-0	TS12-26CM-0-N-00 PRESSURE CONTROLS	\$468.00
PROPORTIONAL RELIEF		TS12-27A-0-N-0	TS12-27A-0-N-00 PRESSURE CONTROLS	\$448.00
PROPORTIONAL RELIEF		TS12-27A-0-V-0	TS12-27A-0-V-00 PRESSURE CONTROL	\$462.00
PROPORTIONAL RELIEF		TS12-27B-0-N-0	TS12-27B-0-N-00 PRESSURE CONTROL	\$448.00
PROPORTIONAL RELIEF		TS12-27C-0-N-0	TS12-27C-0-N-00 PRESURE CONTROL	\$448.00
PROPORTIONAL RELIEF		TS12-36A-0-N-0	TS12-36A-0-N-0 PRESSURE CONTROL	\$462.00
PROPORTIONAL RELIEF		TS12-36B-0-N-0	TS12-36B-0-N-0 PRESSURE CONTROL	\$462.00
PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS12-36BM-0-N-0	TS12-36BM-0-N-0 PRESSURE CONTROL	\$530.00
PROPORTIONAL RELIEF		TS12-36C-0-N-0	TS12-36C-0-N-0 PRESSURE CONTROL	\$462.00
PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS12-36CM-0-N-0	TS12-36CM-0-N-0 PRESSURE CONTROL	\$530.00
PROPORTIONAL RELIEF		TS38-20A-0-N-0	TS38-20A-0-N-00 PRESSURE CONTROL	\$298.00
PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS38-20AM-0-N-0	TS38-20AM-0-N-00 CARTRIDGE ASSEMBLY	\$364.00
PROPORTIONAL RELIEF		TS38-20B-0-N-0	TS38-20B-0-N-00 PRESSURE CONTROL	\$298.00
PROPORTIONAL RELIEF		TS38-20C-0-N-0	TS38-20C-0-N-00 PRESSURE CONTROL	\$298.00
PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS38-20CM-0-N-0	TS38-20CM-0-N-00 CARTRIDGE ASSEMBLY	\$364.00
PROPORTIONAL RELIEF		TS38-21A-0-N-0	TS38-21A-0-N-00 PRESSURE CONTROL	\$332.00
PROPORTIONAL RELIEF		TS38-21B-0-N-0	TS38-21B-0-N-00 PRESSURE CONTROL	\$332.00
PROPORTIONAL RELIEF		TS38-21C-0-N-0	TS38-21C-0-N-00 PRESSURE CONTROL	\$332.00
PROPORTIONAL RELIEF		TS58-2040-0-N-0	TS58-20-40-0-N-00 PRESSURE CONTROL	\$420.00
PROPORTIONAL RELIEF		TS58-2050-0-N-0	TS58-20-50-0-N-00 PRESSURE CONTROL	\$420.00
PROPORTIONAL RELIEF		TS98-T34-0-N-12	TS98-T34-0-N-12DJ PRESSURE CONTROL	\$248.00
RELIEF VALVE		HRVD08-20A-0-N-14	HRVD08-20A-0-N-14/	\$194.00
RELIEF VALVE		HRVD08-20A-0-U-61	HRVD08-20A-0-U-61/M420	\$190.00
RELIEF VALVE		RV08-20A-0-N-18	RV08-20A-0-N-18/ RELIEF VALVE	\$112.00
RELIEF VALVE		RV08-20A-0-N-33	RV08-20A-0-N-33/ RELIEF VALVE	\$112.00
RELIEF VALVE		RV08-20A-0-N-5	RV08-20A-0-N-05/ RELIEF VALVE	\$112.00
RELIEF VALVE		RV08-20A-0-N-9	RV08-20A-0-N-09/ RELIEF VALVE	\$112.00
RELIEF VALVE		RV08-20A-0-NC-33	RV08-20A-0-NC-33/ RELIEF VALVE	\$112.00
RELIEF VALVE		RV08-20A-0-NC-9	RV08-20A-0-NC-09/ RELIEF VALVE	\$112.00
RELIEF VALVE		RV08-20A-0-P-18	RV08-20A-0-P-18/ RELIEF VALVE	\$126.00
RELIEF VALVE		RV08-20A-0-P-9	RV08-20A-0-P-09/ RELIEF VALVE	\$126.00
RELIEF VALVE		RV08-20B-0-N-18	RV08-20B-0-N-18/ RELIEF VALVE	\$132.00
RELIEF VALVE		RV08-20B-0-N-33	RV08-20B-0-N-33/ RELIEF VALVE	\$132.00
RELIEF VALVE		RV08-20B-0-N-9	RV08-20B-0-N-09/ RELIEF VALVE	\$132.00
RELIEF VALVE		RV08-20C-0-N-18	RV08-20C-0-N-18/ RELIEF VALVE	\$122.00
RELIEF VALVE		RV08-20C-0-N-33	RV08-20C-0-N-33/ RELIEF VALVE	\$122.00
RELIEF VALVE		RV08-20C-0-N-9	RV08-20C-0-N-09/ RELIEF VALVE	\$122.00
RELIEF VALVE		RV08-22A-0-N-13	RV08-22A-0-N-13/ RELIEF VALVE	\$112.00
RELIEF VALVE		RV08-22A-0-N-26	RV08-22A-0-N-26/ RELIEF VALVE	\$112.00
RELIEF VALVE		RV08-22A-0-N-4	RV08-22A-0-N-04/ RELIEF VALVE	\$112.00
RELIEF VALVE		RV08-22A-0-N-7	RV08-22A-0-N-07/ RELIEF VALVE	\$112.00
RELIEF VALVE		RV08-22A-0-NC-13	RV08-22A-0-NC-13/ RELIEF VALVE	\$112.00
RELIEF VALVE		RV08-22A-0-NC-26	RV08-22A-0-NC-26/ RELIEF VALVE	\$112.00

Product type	Option	Code	Description	List price
RELIEF VALVE		RV08-22B-0-N-13	RV08-22B-0-N-13/ RELIEF VALVE	\$132.00
RELIEF VALVE		RV08-22H-0-N26/M131	RV08-22H-0-N-26/M131 RELIEF VALVE	\$108.00
RELIEF VALVE		RV08-22H-0-N26/M207	RV08-22H-0-N-26/ M207 RELIEF VALVE	\$108.00
RELIEF VALVE		RV08-29A-0-N-35	RV08-29A-0-N-35/ RELIEF VALVE	\$116.00
RELIEF VALVE		RV10-20A-0-N-12	RV10-20A-0-N-12/ RELIEF VALVE	\$126.00
RELIEF VALVE		RV10-20A-0-N-12/M20	RV10-20A-0-N-12/M20 RELIEF VALVE	\$126.00
RELIEF VALVE		RV10-20A-0-N-23	RV10-20A-0-N-23/ RELIEF VALVE	\$126.00
RELIEF VALVE		RV10-20A-0-N-6	RV10-20A-0-N-06/ RELIEF VALVE	\$126.00
RELIEF VALVE		RV10-20A-0-NC-12	RV10-20A-0-NC-12/ RELIEF VALVE	\$126.00
RELIEF VALVE		RV10-20A-0-N-C-33	RV10-20A-0-NC-33/ RELIEF VALVE	\$126.00
RELIEF VALVE		RV10-20A-0-N-33	RV10-20A-0-N-33/ RELIEF VALVE	\$126.00
RELIEF VALVE		RV10-22A-0-N-13	RV10-22A-0-N-13/ RELIEF VALVE	\$128.00
RELIEF VALVE		RV10-22A-0-N-25	RV10-22A-0-N-25/ RELIEF VALVE	\$128.00
RELIEF VALVE		RV10-22A-0-N-35	RV10-22A-0-N-35/ RELIEF VALVE	\$128.00
RELIEF VALVE		RV10-22A-0-N-6	RV10-22A-0-N-06/ RELIEF VALVE	\$128.00
RELIEF VALVE		RV10-22A-0-NC-13	RV10-22A-0-NC-13/ RELIEF VALVE	\$128.00
RELIEF VALVE		RV10-22A-0-NC-25	RV10-22A-0-NC-25/ RELIEF VALVE	\$128.00
RELIEF VALVE		RV10-22A-0-NC25/M55	RELIEF 114L/MIN DIFF AREA 17-165B - SETT 55 BAR	\$128.00
RELIEF VALVE		RV10-22A-0-NC-35	RV10-22A-0-NC-35/ RELIEF VALVE	\$128.00
RELIEF VALVE		RV10-22A-0-V-35	RV10-22A-0-V-35/ RELIEF VALVE	\$136.00
RELIEF VALVE		RV10-22B-0-N-35	RV10-22B-0-N-35/ RELIEF VALVE	\$150.00
RELIEF VALVE		RV10-22H-0-N-25/12	RV10-22H-0-N-25/12 RELIEF VALVE	\$122.00
RELIEF VALVE		RV10-22H-0-N-35/30	RV10-22H-0-N-35/30 RELIEF VALVE	\$122.00
RELIEF VALVE		RV10-26A-0-N-15	RV10-26A-0-N-15/ RELIEF VALVE	\$152.00
RELIEF VALVE		RV10-26A-0-N-30	RV10-26A-0-N-30/ RELIEF VALVE	\$152.00
RELIEF VALVE		RV10-26A-0-N-4	RV10-26A-0-N-04/ RELIEF VALVE	\$152.00
RELIEF VALVE		RV10-26B-0-N-15	RV10-26B-0-N-15/ RELIEF VALVE	\$174.00
RELIEF VALVE		RV10-26B-0-N-30	RV10-26B-0-N-30/ RELIEF VALVE	\$174.00
RELIEF VALVE		RV10-26F-0N-30/2500	RV10-26F-0-N-30/25 RELIEF VALVE	\$150.00
RELIEF VALVE		RV10-26H-0-N-30/30	RV10-26H-0-N-30/30 RELIEF VALVE	\$150.00
RELIEF VALVE		RV10-26L0-N-30/2500	RV10-26L-0-N-30/25 RELIEF VALVE	\$176.00
RELIEF VALVE		RV10-28A-0-N-07	RV10-28A-0-N-07/ RELIEF VALVE	\$196.00
RELIEF VALVE		RV10-28A-0-N-35	RV10-28A-0-N-35/ RELIEF VALVE	\$196.00
RELIEF VALVE		RV12-26A-0-N-15	RV12-26A-0-N-15/ RELIEF VALVE	\$220.00
RELIEF VALVE		RV12-26A-0-N-35	RV12-26A-0-N-35/ RELIEF VALVE	\$220.00
RELIEF VALVE		RV12-26A-0-N-4	RV12-26A-0-N-04/ RELIEF VALVE	\$220.00
RELIEF VALVE		RV12-26C-0-N-35	RV12-26C-0-N-35/ RELIEF VALVE	\$230.00
RELIEF VALVE		RV16-26A-0-N-03	RV16-26A-0-N-03/ RELIEF VALVE	\$386.00
RELIEF VALVE		RV16-26A-0-N-06	RV16-26A-0-N-06/ RELIEF VALVE	\$386.00
RELIEF VALVE		RV16-26A-0-N-15	RV16-26A-0-N-15/ RELIEF VALVE	\$386.00
RELIEF VALVE		RV16-26A-0-N-35	RV16-26A-0-N-35/ RELIEF VALVE	\$386.00
RELIEF VALVE		RV16-26A-0-P-35	RV16-26A-0-P-35/ RELIEF VALVE	\$418.00
RELIEF VALVE		RV16-26H-0-N-35/25	RV16-26H-0-N-35/25 RELIEF VALVE	\$384.00
RELIEF VALVE		RV50-22A-0-P-50	RV50-22A-0-P-50/ RELIEF VALVE	\$150.00
RELIEF VALVE		RV50-22H0-P-50/37.5	RV50-22H-0-P-50/37.5 RELIEF VALVE	\$146.00
RELIEF VALVE		RV50-26A-0-P-50	RV50-26A-0-P-50/ RELIEF VALVE	\$170.00
RELIEF VALVE		RV50-26B-0-P-50	RV50-26B-0-P-50/ RELIEF VALVE	\$190.00
RELIEF VALVE		RV50-26C-0-P-50/35	RV50-26C-0-P-50/35 RELIEF VALVE	\$176.00
RELIEF VALVE		RV50-28A-0-P-50	RV50-28A-0-P-50/ RELIEF VALVE	\$230.00
RELIEF VALVE		RV52-26A-0-P-50	RV52-26A-0-P-50/ RELIEF VALVE	\$238.00
RELIEF VALVE		RV52-26C-0-P-50	RV52-26C-0-P-50/ RELIEF VALVE	\$244.00
RELIEF VALVE		RV56-26A-0-P-50	RV56-26A-0-P-50/ RELIEF VALVE	\$384.00
RELIEF VALVE		RV58-20A-0-P-46	RV58-20A-0-P-46/ RELIEF VALVE	\$122.00
RELIEF VALVE		RV58-20B-0-P-46	RV58-20B-0-P-46/ RELIEF VALVE	\$142.00
RELIEF VALVE		RV58-20H-0-P-46/08	RV58-20H-0-P-46/08 RELIEF VALVE	\$122.00
RELIEF VALVE		RV58-20H-0-P46/M260	RV58-20H-0-P-46/ M260 RELIEF VALVE	\$122.00
RELIEF VALVE		RVD50-20A-0-N-08	RVD50-20A-0-N-08/ RELIEF	\$220.00
RELIEF VALVE		RVD50-20A-0-N-15	RVD50-20A-0-N-15/ RELIEF	\$220.00
RELIEF VALVE		RVD50-20A-0-N-24	RVD50-20A-0-N-24/ RELIEF	\$220.00
RELIEF VALVE		RVD50-20A-0-N-32	RVD50-20A-0-N-32/ RELIEF VALVE	\$220.00
RELIEF VALVE		RVD50-20A-0-N-42	RVD50-20A-0-N-42/ RELIEF	\$220.00
RELIEF VALVE		RVD50-20A-0-N-50	RVD50-20A-0-N-50/ RELIEF	\$220.00
RELIEF VALVE		RVD50-20A-0-NC-32	RVD50-20A-0-NC-32/ RELIEF	\$220.00
RELIEF VALVE		RVD50-20A-0-U-50	RVD50-20A-0-U-50/ RELIEF	\$238.00
RELIEF VALVE		RVD50-20C-0-N-08	RVD50-20C-0-N-08/M36 RELIEF	\$230.00
RELIEF VALVE		RVD50-20C-0-N-15	RVD50-20C-0-N-15/ RELIEF VALVE	\$230.00
RELIEF VALVE		RVD50-20C-0-N-32	RVD50-20C-0-N-32/ RELIEF	\$230.00
RELIEF VALVE		RVD50-20H0N-15/M100	RVD50-20H-0-N-15/M100 RELIEF	\$218.00
RELIEF VALVE		RVD50-20L-0-N-32	RVD50-20L-0-N-32/ RELIEF	\$244.00
RELIEF VALVE		RVD50-20L-0-N-42	RVD50-20L-0-N-42/ RELIEF	\$244.00
RELIEF VALVE		RVD50-20P-0-N42M240	RVD50-20P-0-N-42/M240 RELIEF VALVE	\$312.00
RELIEF VALVE		TR04-B20-0-N-40	TR04-B20-0-N-40/ THERMAL RELIEF	\$126.00
SCREEN		SC08-20-0-N-100	SC08-20-0-N-100 SCREEN CARTRIDGE	\$38.00
SCREEN		SC10-20-0-N-100	SC10-20-0-N-100 SCREEN CARTRIDGE	\$48.00
SEAL KIT		SK04-B3N-M	SK04-B3N-M SEAL KIT	\$10.00

Product type	Option	Code	Description	List price
SEAL KIT		SK07-3N-MM	SK07-3N-MM SEAL KIT	\$14.00
SEAL KIT		SK08-2N-M	SK08-2N-M SEAL KIT	\$10.00
SEAL KIT		SK08-2N-T	SK08-2N-T/B SEAL KIT	\$10.00
SEAL KIT		SK08-2P-B	SK08-2P-T/B SEAL KIT	\$16.00
SEAL KIT		SK08-2V-M	SK08-2V-M SEAL KIT	\$14.00
SEAL KIT		SK08-3N-BM	SK08-3N-BM SEAL KIT	\$14.00
SEAL KIT		SK08-3N-MM	SK08-3N-MM SEAL KIT	\$14.00
SEAL KIT		SK08-3N-TM	SK08-3N-TM SEAL KIT	\$14.00
SEAL KIT		SK08-3P-MM	SK08-3P-MM SEAL KIT	\$20.00
SEAL KIT		SK08-3V-MM	SK08-3V-MM SEAL KIT	\$14.00
SEAL KIT		SK08-3V-TM	SK08-3V-TM/BM SEAL KIT	\$14.00
SEAL KIT		SK08-4N-MMM	SK08-4N-MMM SEAL KIT	\$14.00
SEAL KIT		SK08-4V-MMM	SK08-4V-MMM SEAL KIT	\$20.00
SEAL KIT		SK10-2N-M	SK10-2N-M SEAL KIT	\$14.00
SEAL KIT		SK10-2N-T	SK10-2N-T/B SEAL KIT	\$14.00
SEAL KIT		SK10-2P-B	SK10-2P-T/B SEAL KIT	\$20.00
SEAL KIT		SK10-2V-M	SK10-2V-M SEAL KIT	\$14.00
SEAL KIT		SK10-2V-T	SK10-2V-T/B SEAL KIT	\$14.00
SEAL KIT		SK10-3N-BM	SK10-3N-BM/TM SEAL KIT	\$14.00
SEAL KIT		SK10-3N-MM	SK10-3N-MM SEAL KIT	\$14.00
SEAL KIT		SK10-3N-TB	SK10-3N-TT/BB SEAL KIT	\$14.00
SEAL KIT		SK10-3N-TM	SK10-3N-BM/TM SEAL KIT	\$14.00
SEAL KIT		SK10-3P-BM	SK10-3P-BM/TM SEAL KIT	\$28.00
SEAL KIT		SK10-3V-MM	SK10-3V-MM SEAL KIT	\$16.00
SEAL KIT		SK10-4N-BMM	SK10-4N-BMM SEAL KIT	\$14.00
SEAL KIT		SK10-4N-MMM	SK10-4N-MMM SEAL KIT	\$14.00
SEAL KIT		SK10-4V-MMM	SK10-4V-MMM SEAL KIT	\$16.00
SEAL KIT		SK10-S3N-MM	SK10-S3N-MM SEAL KIT 70 DURO	\$14.00
SEAL KIT		SK10-S3V-MM	SK10-S3V-MM SEAL KIT	\$16.00
SEAL KIT		SK12-2N-M	SK12-2N-M SEAL KIT	\$14.00
SEAL KIT		SK12-2N-T	SK12-2N-T/B SEAL KIT	\$14.00
SEAL KIT		SK12-2P-B	SK12-2P-T/B SEAL KIT	\$28.00
SEAL KIT		SK12-2V-M	SK12-2V-M SEAL KIT	\$20.00
SEAL KIT		SK12-3N-BM	SK12-3N-BM SEAL KIT	\$20.00
SEAL KIT		SK12-3N-MM	SK12-3N-MM SEAL KIT	\$20.00
SEAL KIT		SK12-3SV-MM	SEAL KIT VITON - VC12-3S	\$28.00
SEAL KIT		SK12-3V-MM	SK12-3V-MM SEAL KIT	\$28.00
SEAL KIT		SK12-4N-MMM	SK12-4N-MMM SEAL KIT	\$28.00
SEAL KIT		SK12-4V-MMM	SK12-4V-MMM SEAL KIT	\$34.00
SEAL KIT		SK12-S3N-MM	SK12-S3N-MM SEAL KIT	\$20.00
SEAL KIT		SK16-2N-T	SK16-2N-T/B SEAL KIT	\$16.00
SEAL KIT		SK16-2P-B	SK16-2P-T/B SEAL KIT	\$34.00
SEAL KIT		SK16-2U-O	SK16-2U-O SEAL KIT	\$34.00
SEAL KIT		SK16-2V-M	SK16-2V-M SEAL KIT	\$28.00
SEAL KIT		SK16-4N-MMM	SK16-4N-MMM SEAL KIT	\$30.00
SEAL KIT		SK16-4V-MMM	SK16-4V-MMM SEAL KIT	\$40.00
SEAL KIT		SK16-S3N-MM	SK16-S3N-MM SEAL KIT	\$28.00
SEAL KIT		SK16-S3V-MM	SK16-S3V-MM SEAL KIT	\$34.00
SEAL KIT		SK16-S6P-BMMMM	SK16-S6P-BMMMM SEAL KIT	\$74.00
SEAL KIT		SK20-2P-T	SK20-2P-T SEAL KIT	\$40.00
SEAL KIT		SK20-S3N-MM	SK20-S3N-MM SEAL KIT	\$30.00
SEAL KIT		SK42-M2N-T	SK42-M2N-T SEAL KIT	\$28.00
SEAL KIT		SK42-S3U-00	SK42-S3U-00 SEAL KIT	\$74.00
SEAL KIT		SK98-T39N	SK98-T39N SEAL KIT	\$14.00
SEQUENCE VALVES		PS08-30A-0-N-13	PS08-30A-0-N-13/ SEQUENCE VALVE	\$146.00
SEQUENCE VALVES		PS08-30A-0-N-24	PS08-30A-0-N-24/ SEQUENCE VALVE	\$146.00
SEQUENCE VALVES		PS08-30A-0-V-24	PS08-30A-0-V-24/ SEQUENCE VALVE	\$156.00
SEQUENCE VALVES		PS08-30C-0-N-24	PS08-30C-0-N-24/ SEQUENCE VALVE	\$156.00
SEQUENCE VALVES		PS08-30H-0-P-24/16	PS08-30H-0-P-24/16 SEQUENCE VALVE	\$160.00
SEQUENCE VALVES		PS08-32A-0-N-13	PS08-32A-0-N-13/ SEQUENCE VALVE	\$146.00
SEQUENCE VALVES		PS08-32A-0-N-24	PS08-32A-0-N-24/ SEQUENCE VALVE	\$146.00
SEQUENCE VALVES		PS08-32A-0-N-3	PS08-32A-0-N-03/ SEQUENCE VALVE	\$146.00
SEQUENCE VALVES		PS08-32A-0-N-6	PS08-32A-0-N-06/ SEQUENCE VALVE	\$146.00
SEQUENCE VALVES		PS08-32C-0-N-13	PS08-32C-0-N-13/ SEQUENCE VALVE	\$156.00
SEQUENCE VALVES		PS08-32C-0-N-24	PS08-32C-0-N-24/ SEQUENCE VALVE	\$156.00
SEQUENCE VALVES		PS10-30A-0-N-21	PS10-30A-0-N-21/ SEQUENCE VALVE	\$156.00
SEQUENCE VALVES		PS10-30A-0-N-4	PS10-30A-0-N-04/ SEQUENCE VALVE	\$156.00
SEQUENCE VALVES		PS10-31A-0-N-35	PS10-31A-0-N-35/ SEQUENCE VALVE	\$166.00
SEQUENCE VALVES		PS10-32A-0-N-15	PS10-32A-0-N-15/ SEQUENCE VALVE	\$160.00
SEQUENCE VALVES		PS10-32A-0-N-21	PS10-32A-0-N-21/ SEQUENCE VALVE	\$160.00
SEQUENCE VALVES		PS10-32A-0-N-4	PS10-32A-0-N-04/ SEQUENCE VALVE	\$160.00
SEQUENCE VALVES		PS10-32A-0-N-8	PS10-32A-0-N-08/ SEQUENCE VALVE	\$160.00
SEQUENCE VALVES		PS10-32B-0-N-21	PS10-32B-0-N-21/ SEQUENCE VALVE	\$180.00
SEQUENCE VALVES		PS10-33A-0-N-35	PS10-33A-0-N-35/ SEQUENCE VALVE	\$166.00
SEQUENCE VALVES		PS10-34A-0-N-17	PS10-34A-0-N-17/ SEQUENCE VALVE	\$156.00

Product type	Option	Code	Description	List price
SEQUENCE VALVES		PS10-34A-0-N-7	PS10-34A-0-N-07/ SEQUENCE VALVE	\$156.00
SEQUENCE VALVES		PS10-36A-0-N-04	PS10-36A-0-N-04/ SEQUENCE VALVE	\$194.00
SEQUENCE VALVES		PS10-36A-0-N-15	PS10-36A-0-N-15/ SEQUENCE VALVE	\$194.00
SEQUENCE VALVES		PS10-36A-0-N-30	PS10-36A-0-N-30/ SEQUENCE VALVE	\$194.00
SEQUENCE VALVES		PS10-40A-0-N-22	PS10-40A-0-N-22/ SEQUENCE VALVE	\$200.00
SEQUENCE VALVES		PS10-40A-0-N-4	PS10-40A-0-N-04/ SEQUENCE VALVE	\$200.00
SEQUENCE VALVES		PS10-41A-0-N-22	PS10-41A-0-N-22/ SEQUENCE VALVE	\$200.00
SEQUENCE VALVES		PS10-41A-0-N-4	PS10-41A-0-N-04/ SEQUENCE VALVE	\$200.00
SEQUENCE VALVES		PS10-43A-0-N-22	PS10-43A-0-N-22/ SEQUENCE VALVE	\$208.00
SEQUENCE VALVES		PS50-36A-0-P-50	PS50-36A-0-P-50/ SEQUENCE VALVE	\$200.00
SEQUENCE VALVES		PS50-40A-0-P-35	PS50-40A-0-P-35/ SEQUENCE VALVE	\$208.00
SHUTTLE VALVE		HLS06-30-0-U	HLS06-30-0-U SHUTTLE VALVE	\$78.00
SHUTTLE VALVE		HLS06-B30-0-U	HLS06-B30-0-U SHUTTLE VALVE	\$74.00
SHUTTLE VALVE		HS10-42-0-N	HS10-42-0-N HOT OIL SHUTTLE VALVE	\$184.00
SHUTTLE VALVE		HS50-42-0-P	HS50-42-0-P HOT OIL SHUTTLE VALVE	\$200.00
SHUTTLE VALVE		HS50-43-0-P	HS50-43-0-P HOT OIL SHUTTLE VALVE	\$230.00
SHUTTLE VALVE		HS52-42-0-P	HS52-42-0-P HOT OIL SHUTTLE VALVE	\$340.00
SHUTTLE VALVE		HS52-43-0-P	HS52-43-0-P HOT OIL SHUTTLE VALVE	\$356.00
SHUTTLE VALVE		LS04-B30-0-N	LS04-B30-0-N SHUTTLE VALVE	\$58.00
SHUTTLE VALVE		LS08-30-0-N	LS08-30-0-N SHUTTLE VALVE CARTRIDGE	\$64.00
SHUTTLE VALVE		LS08-30-0-V	LS08-30-0-V SHUTTLE VALVE	\$74.00
SHUTTLE VALVE		LS10-30-0-N	LS10-30-0-N SHUTTLE VALVE	\$74.00
SHUTTLE VALVE		LS10-41-0-N	LS10-41-0-N SHUTTLE VALVE	\$122.00
SHUTTLE VALVE		LS50-30-0-P	LS50-30-0-P SHUTTLE VALVE	\$96.00
SOLENOID VALVE		HSV10-20-0-N-0	HSV10-20-0-N-00 SOLENOID VALVE	\$186.00
SOLENOID VALVE		HSV10-21-0-U-0	HSV10-21-0-U-00 SOLENOID VALVE	\$240.00
SOLENOID VALVE		HSV10-22-0-U-0	HSV10-22-0-U-0 SOLENOID VALVE	\$190.00
SOLENOID VALVE		HSV10-23-0-U-0	HSV10-23-0-U-00 SOLENOID VALVE	\$238.00
SOLENOID VALVE		HSV10-28-0-N-0	HSV10-28-0-N-0 SOLENOID VALVE	\$366.00
SOLENOID VALVE		HSV10-28-0-U-0	HSV10-28-0-U-0 SOLENOID VALVE	\$360.00
SOLENOID VALVE		HSV10-29-0-U-0	HSV10-29-0-U-00 SOLENOID VALVE	\$390.00
SOLENOID VALVE		HSV10-40R-0-U-00	HSV10-40R-0-U-0 CARTRIDGE	\$220.00
SOLENOID VALVE		HSV10-47C-0-U-0	HSV10-47C-0-U-00 SOLENOID VALVE	\$448.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	HSV10-47CB-0-U-0	HSV10-47CB-0-U-0 SOLENOID VALVE	\$564.00
SOLENOID VALVE	MANUAL OVERRIDE	HSV10-47CM-0-N-0	HSV10-47CM-0-N-0 SOLENOID VALVE	\$560.00
SOLENOID VALVE		HSV10-47D-0-U-0	HSV10-47D-0-U-00 SOLENOID VALVE	\$448.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	HSV10-47DB-0-U-0	HSV10-47DB-0-U-0 SOLENOID VALVE	\$564.00
SOLENOID VALVE	MANUAL OVERRIDE	HSV10-47DM-0-N-0	HSV10-47DM-0-U-0 SOLENOID VALVE	\$550.00
SOLENOID VALVE	MANUAL OVERRIDE	HSV12-20M-0-U-0	HSV12-20M-0-U-00 SOLENOID VALVE	\$380.00
SOLENOID VALVE		HSV12-21-0-U-00	HSV12-21-0-U-0 SOLENOID VALVE	\$332.00
SOLENOID VALVE		HSV12-47C-0-U-0	HSV12-47C-0-U-0 SOLENOID VALVE	\$652.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	HSV12-47CB-0-U-0	HSV12-47CB-0-U-0 SOLENOID VALVE	\$768.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	HSV12-47DB-0-U-0	HSV12-47DB-0-U-0 SOLENOID VALVE	\$768.00
SOLENOID VALVE	MANUAL OVERRIDE	HSV12-P28M-0-U-0-N3	HSV12-P28AM-0-U-0-N3 PILOTREL	\$1,418.00
SOLENOID VALVE		SF08-20-0-P-0	SF08-20-0-P-00 SOLENOID VALVE	\$122.00
SOLENOID VALVE	MANUAL OVERRIDE	SF08-20M-0-P-0	SF08-20M-0-P-00 W/NUT	\$176.00
SOLENOID VALVE		SF08-21-0-P-0	SF08-21-0-P-00 CARTRIDGE ASSEMBLY	\$184.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SF08-21K-0-P-0	SF08-21K-0-P-00 SOLENOID VALVE	\$228.00
SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SF08-21P-0-P-0	SF08-21P-0-P-00 SOLENOID VALVE	\$218.00
SOLENOID VALVE		SF08-22-0-P-0	SF08-22-0-P-00 SOLENOID VALVE	\$150.00
SOLENOID VALVE		SF08-23-0-P-0	SF08-23-0-P-00 CARTRIDGE ASS'Y/NUT	\$190.00
SOLENOID VALVE		SF20-22-0-N-0	SF20-22-0-N-00 SOLENOID VALVE	\$410.00
SOLENOID VALVE		SF20-22-0-P-0	SF20-22-0-P-00 SOLENOID VALVE	\$410.00
SOLENOID VALVE	MANUAL OVERRIDE	SF20-22M-0-P-0	SF20-22M-0-P-00 SOLENOID VALVE	\$476.00
SOLENOID VALVE		SF20-23-0-N-0	SF20-23-0-N-00 SOLENOID VALVE	\$462.00
SOLENOID VALVE		SL08-22-0-N-0	SL08-22-0-N-00 W/ 7004406 NUT	\$98.00
SOLENOID VALVE		SV07-31-0-N-0	SV07-31-0-N-00 SOLENOID VALVE	\$150.00
SOLENOID VALVE		SV07-31-0-V-0	SV07-31-0-V-00 W/ 7004406 NUT	\$156.00
SOLENOID VALVE		SV07-34-0-N-0	SV07-34-0-N-00 SOLENOID VALVE	\$150.00
SOLENOID VALVE		SV07-35-0-N-0	SV07-35-0-N-00 W/ 7004406 NUT	\$150.00
SOLENOID VALVE		SV08-20-0-N-0	SV08-20-0-N-00 W/ 7004406 NUT	\$96.00
SOLENOID VALVE	CABLE OVERRIDE	SV08-20J-0-N-0	SV08-20J-0-N-00 SOLENOID VALVE	\$194.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-20M-0-N-0	SV08-20M-0-N-00 W/ 7004496 NUT	\$152.00
SOLENOID VALVE		SV08-21-0-N-0	SV08-21-0-N-00 W/ 7004416 NUT	\$132.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV08-21K-0-N-0	SV08-21K-0-N-00 W/ 7004416 NUT	\$176.00
SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV08-21P-0-N-0	SV08-21P-0-N-00 W/ 7004416 NUT	\$166.00
SOLENOID VALVE		SV08-22-0-N-0	SV08-22-0-N-00 W/ 7004406 NUT	\$108.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-22M-0-N-0	SV08-22M-0-N-00 W/ 7004496 NUT	\$166.00
SOLENOID VALVE		SV08-23-0-N-0	SV08-23-0-N-00 W/ 7004416 NUT SOLENOID VALVE	\$150.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV08-23K-0-N-0	SV08-23K-0-N-00 W/ 7004416 NUT	\$194.00
SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV08-23P-0-N-0	SV08-23P-0-N-00 W/ 7004416 NUT	\$184.00
SOLENOID VALVE		SV08-24-0-N-0	SV08-24-0-N-00 W/ 7004406 NUT	\$88.00
SOLENOID VALVE		SV08-24-0-V-0	SV08-24-0-V-00 W/ 7004406 NUT	\$96.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-24M-0-N-0	SV08-24M-0-N-00 W/ 7004496 NUT	\$146.00
SOLENOID VALVE		SV08-25-0-N-0	SV08-25-0-N-00 W/ 7004406 NUT	\$98.00

Product type	Option	Code	Description	List price
SOLENOID VALVE	MANUAL OVERRIDE	SV08-25M-0-N-0	SV08-25M-0-N-00 W/ 7004496 NUT	\$156.00
SOLENOID VALVE		SV08-26-0-N-0	SV08-26-0-N-00 W/ 7004406 NUT	\$106.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-26M-0-N-0	SV08-26M-0-N-00 W/ 7004496 NUT	\$162.00
SOLENOID VALVE		SV08-28-0-N-0	SV08-28-0-N-00 SOLENOID VALVE	\$170.00
SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV08-28P-0-N-0	SV08-28P-0-N-00 SOLENOID VALVE	\$204.00
SOLENOID VALVE		SV08-30-0-N-0	SV08-30-0-N-00 W/ 7004406 NUT	\$116.00
SOLENOID VALVE		SV08-30-0-V-0	SV08-30-0-V-00 W/ 7004406 NUT	\$122.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-30M-0-N-0	SV08-30M-0-N-00 W/ 7004496 NUT	\$174.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-30M-0-V-0	SV08-30M-0-V-00 W/ 7004496 NUT	\$184.00
SOLENOID VALVE	WITH SCREEN	SV08-30S-0-V-0	SV08-20S-0-V-00 W/ 7004406 NUT	\$116.00
SOLENOID VALVE		SV08-31-0-N-0	SV08-31-0-N-00 W/ 7004406 NUT	\$116.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-31M-0-N-0	SV08-31M-0-N-00 W/ 7004496 NUT	\$174.00
SOLENOID VALVE		SV08-33-0-N-0	SV08-33-0-N-00 W/ 7004406 NUT	\$116.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-33M-0-N-0	SV08-33M-0-N-00 W/ 7004496 NUT	\$174.00
SOLENOID VALVE		SV08-35-0-N-0	SV08-35-0-N-00 SOLENOID VALVE	\$116.00
SOLENOID VALVE		SV08-40-0-N-0	SV08-40-0-N-00 W/ 7004406 NUT	\$128.00
SOLENOID VALVE		SV08-40-0-P-0	SV08-40-0-P-00 W/ 7004406 NUT	\$152.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-40M-0-N-0	SV08-40M-0-N-00 W/ 7004496 NUT	\$186.00
SOLENOID VALVE		SV08-41-0-N-0	SV08-41-0-N-00 W/ 7004406 NUT	\$128.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-41M-0-N-0	SV08-41M-0-N-00 SOLENOID VALVE	\$186.00
SOLENOID VALVE		SV08-42-0-N-0	SV08-42-0-N-00 W/ 7004406 NUT	\$128.00
SOLENOID VALVE		SV08-43-0-N-0	SV08-43-0-N-00 W/ 7004406 NUT	\$128.00
SOLENOID VALVE		SV08-44-0-N-0	SV08-44-0-N-00 W/ 7004406 NUT	\$128.00
SOLENOID VALVE		SV08-45-0-N-0	SV08-45-0-N-00 W/ 7004406 NUT	\$136.00
SOLENOID VALVE		SV08-47A-0-N-0	SV08-47A-0-N-00 HIGH FLOW VALVE	\$204.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-47AM-0-N-0	SV08-47AM-0-N-00 SOLENOID VALVE	\$306.00
SOLENOID VALVE		SV08-47B-0-N-0	SV08-47B-0-N-0 SOLENOID VALVE	\$204.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-47BM-0-N-0	SV08-47BM-0-N-00 SOLENOID VALVE	\$306.00
SOLENOID VALVE		SV08-47C-0-N-0	SV08-47C-0-N-00 W/ 7004406 NUT	\$194.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-47CM-0-N-0	SV08-47CM-0-N-00 SOLENOID VALVE	\$292.00
SOLENOID VALVE		SV08-47D-0-N-0	SV08-47D-0-N-00 W/ 7004406 NUT	\$194.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV08-47DB-0-N-0	SV08-47DB-0-N-00 SOLENOID VALVE	\$306.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV08-47DK-0-N-0	SV08-47DK-0-N-00 SOLENOID VALVE	\$326.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-47DM-0-N-0	SV08-47DM-0-N-00 SOLENOID VALVE	\$292.00
SOLENOID VALVE		SV08-47E-0-N-0	SV08-47E-0-N-00 W/ 7004406 NUT	\$190.00
SOLENOID VALVE		SV08-58C-0-N-0	SV08-58C-0-N-00 SOLENOID VALVE	\$286.00
SOLENOID VALVE	MANUAL OVERRIDE	SV08-58CM-0-N-0	SV08-58CM-0-N-00 SOLENOID VALVE	\$384.00
SOLENOID VALVE		SV08-58D-0-N-0	SV08-58D-0-N-00 SOLENOID VALVE	\$286.00
SOLENOID VALVE		SV10-20-0-N-0	SV10-20-0-N-00 W/ 7004406 NUT	\$116.00
SOLENOID VALVE		SV10-20-0-V-0	SV10-20-0-V-00 W/ 7004406 NUT	\$126.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-20M-0-N-0	SV10-20M-0-N-00 W/ 7004596 NUT	\$180.00
SOLENOID VALVE	WITH SCREEN	SV10-20S-0-N-0	SV10-20S-0-N-00 W/ 7004406 NUT	\$132.00
SOLENOID VALVE	MAN O/RIDE SMALL KNUR	SV10-20Y-0-N-0	SV10-20Y-0-N-00 CARTRIDGE	\$214.00
SOLENOID VALVE		SV10-21-0-N-0	SV10-21-0-N-00 W/ 7004426 NUT	\$156.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV10-21K-0-N-0	SV10-21K-0-N-00 W/ 7004426 NUT	\$200.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-21P-0-N-0	SV10-21P-0-N-00 W/ 7004426 NUT	\$190.00
SOLENOID VALVE		SV10-22-0-N-0	SV10-22-0-N-00 W/ 7004406 NUT	\$128.00
SOLENOID VALVE	CABLE OVERRIDE	SV10-22J-0-N-0	SV10-22J-0-N-00 CARTRIDGE	\$224.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-22M-0-N-0	SV10-22M-0-N-00 W/ 7004596 NUT	\$190.00
SOLENOID VALVE		SV10-23-0-N-0	SV10-23-0-N-00 W/ 7004426 NUT	\$166.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV10-23K-0-N-0	SV10-23K-0-N-00 W/ 7004426 NUT	\$210.00
SOLENOID VALVE		SV10-24-0-N-0	SV10-24-0-N-0 W/ 7004406 NUT	\$116.00
SOLENOID VALVE		SV10-24-0-V-0	SV10-24-0-V-0 W/ 7004406 NUT	\$122.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-24M-0-N-0	SV10-24M-0-N-0 W/ 7004596 NUT	\$176.00
SOLENOID VALVE		SV10-25-0-N-0	SV10-25-0-N-00 W/ 7004406 NUT	\$122.00
SOLENOID VALVE		SV10-25-0-V-0	SV10-25-0-V-00 W/ 7004406 NUT	\$132.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-25M-0-N-0	SV10-25M-0-N-0 W/ 7004596 NUT	\$190.00
SOLENOID VALVE		SV10-28-0-N-0	SV10-28-0-N-00 SOLENOID VALVE	\$214.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-28M-0-N-0	SV10-28M-0-N-00 SOLENOID VALVE	\$278.00
SOLENOID VALVE		SV10-29-0-N-0	SV10-29-0-N-00 SOLENOID VALVE	\$248.00
SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV10-29P-0-N-0	SV10-29P-0-N-00 SOLENOID VALVE	\$282.00
SOLENOID VALVE		SV10-31-0-N-0	SV10-31-0-N-0 W/ 7004406 NUT	\$136.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-31M-0-N-0	SV10-31M-0-N-00 W/ 7004596 NUT	\$200.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-31M-0-V-0	SV10-31M-0-V-00 W/ 7004596 NUT	\$210.00
SOLENOID VALVE		SV10-33-0-N-0	SV10-33-0-N-00 W/ 7004406 NUT	\$142.00
SOLENOID VALVE		SV10-33-0-V-0	SV10-33-0-V-00 W/ 7004406 NUT	\$150.00
SOLENOID VALVE		SV10-34-0-N-0	SV10-34-0-N-00 W/ 7004406 NUT	\$142.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-34M-0-N-0	SV10-34M-0-N-0 W/ 7004596 NUT	\$204.00
SOLENOID VALVE		SV10-40-0-N-0	SV10-40-0-N-00 W/ 7004406 NUT	\$146.00
SOLENOID VALVE		SV10-40-0-P-0	SV10-40-0-P-00 W/ 7004406 NUT	\$174.00
SOLENOID VALVE		SV10-40-0-V-0	SV10-40-0-V-00 W/ 7004406 NUT	\$160.00
SOLENOID VALVE		SV10-40A-0-N-0	SV10-40A-0-N-0 SOLENOID VALVE	\$162.00
SOLENOID VALVE	CABLE OVERRIDE	SV10-40J-0-N-0	SV10-40J-0-N-00 SOLENOID VALVE	\$244.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-40M-0-N-0	SV10-40M-0-N-00 W/ 7004596 NUT SOLENOID	\$210.00
SOLENOID VALVE		SV10-41-0-N-0	SV10-41-0-N-00 W/ 7004406 NUT	\$150.00

Product type	Option	Code	Description	List price
SOLENOID VALVE		SV10-42-0-N-0	SV10-42-0-N-00 W/ 7004406 NUT	\$152.00
SOLENOID VALVE		SV10-43-0-N-0	SV10-43-0-N-00 W/ 7004406 NUT	\$152.00
SOLENOID VALVE		SV10-44-0-N-0	SV10-44-0-N-00 W/ 7004406 NUT	\$156.00
SOLENOID VALVE		SV10-47A-0-N-0	SV10-47A-0-N-00 W/ 7004406 NUT	\$264.00
SOLENOID VALVE		SV10-47B-0-N-0	SV10-47B-0-N-00 W/ 7004406	\$272.00
SOLENOID VALVE		SV10-47B-0-V-0	SV10-47B-0-V-00 W/ 7004406	\$286.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-47BM-0-N-0	SV10-47BM-0-N-00 SOLENOID VALVE	\$374.00
SOLENOID VALVE		SV10-47C-0-N-0	SV10-47C-0-N-00 SOLENOID VALVE	\$258.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV10-47CK-0-N-0	SV10-47CK-0-N-00 SOLENOID VALVE	\$390.00
SOLENOID VALVE		SV10-47D-0-N-0	SV10-47D-0-N-00 SOLENOID VALVE	\$258.00
SOLENOID VALVE		SV10-47D-0-P-0	SV10-47D-0-P-00 W/ 7004406 NUT	\$286.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV10-47DB-0-N-0	SV10-47DB-0-N-00 SOLENOID VALVE	\$366.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV10-47DK-0-N-0	SV10-47DK-0-N-00 SOLENOID VALVE	\$390.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-47DM-0-N-0	SV10-47DM-0-N-00 SOLENOID VALVE	\$356.00
SOLENOID VALVE		SV10-57C-0-N-0	SV10-57C-0-N-00 SOLENOID VALVE	\$320.00
SOLENOID VALVE		SV10-57D-0-N-0	SV10-57D-0-N-00 SOLENOID VALVE	\$326.00
SOLENOID VALVE		SV10-58C-0-N-0	SV10-58C-0-N-00 SOLENOID VALVE	\$340.00
SOLENOID VALVE		SV10-58D-0-N-0	SV10-58D-0-N-00 SOLENOID VALVE	\$340.00
SOLENOID VALVE		SV10-P20A0N24ERZN3	SV10-P20A-0-N-24ER/Z-N3 SOLENOID VALVE	\$916.00
SOLENOID VALVE		SV10-P21A0N24ERZN3	SV10-P21A-0-N-24ER/Z-N3 SOLENOID VALVE	\$958.00
SOLENOID VALVE	MANUAL OVERRIDE	SV10-P22AM-0-N-0-M3	SV10-P22AM-0-N-0-M3 SOLENOID VALVE	\$902.00
SOLENOID VALVE		SV10-P40-0-N-0-N3	SV10-P40-0-N-0-N3 SOLENOID VALVE	\$858.00
SOLENOID VALVE		SV10-P40-0-N-24ER/Z	SV10-P40-0-N-24ER/Z-N3 SOLENOID VALVE	\$944.00
SOLENOID VALVE		SV12-20-0-N-0	SV12-20-0-N-00 W/ 7004406 NUT	\$194.00
SOLENOID VALVE	MANUAL OVERRIDE	SV12-20M-0-N-0	SV12-20M-0-N-00 W/ 7004596 NUT	\$258.00
SOLENOID VALVE		SV12-21-0-N-0	SV12-21-0-N-00 W/ 7004426 NUT	\$238.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV12-21K-0-N-0	SV12-21K-0-N-00 CARTRIDGE	\$282.00
SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV12-21P-0-N-0	SV12-21P-0-N-00 W/ 7004426 NUT	\$272.00
SOLENOID VALVE		SV12-22-0-N-0	SV12-22-0-N-00 W/ 7004406 NUT	\$210.00
SOLENOID VALVE	MANUAL OVERRIDE	SV12-22M-0-N-0	SV12-22M-0-N-00 W/ 7004596 NUT	\$274.00
SOLENOID VALVE		SV12-23-0-N-0	SV12-23-0-N-00 W/ 7004426 NUT	\$248.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV12-23K-0-N-0	SV12-23K-0-N-00 CARTRIDGE	\$292.00
SOLENOID VALVE		SV12-28-0-N-0	SV12-28-0-N-00 SOLENOID VALVE	\$298.00
SOLENOID VALVE	CABLE OVERRIDE	SV12-28J-0-N-0	SV12-28J-0-N-00 SOLENOID VALVE	\$398.00
SOLENOID VALVE		SV12-29-0-N-0	SV12-29-0-N-00 SOLENOID VALVE	\$312.00
SOLENOID VALVE		SV12-31-0-N-0	SV12-31-0-N-00 SOLENOID VALVE	\$332.00
SOLENOID VALVE		SV12-33-0-N-0	SV12-33-0-N-00 SOLENOID VALVE	\$332.00
SOLENOID VALVE		SV12-33-0-V-0	SV12-33-0-V-00 SOLENOID VALVE	\$346.00
SOLENOID VALVE		SV12-34-0-N-0	SV12-34-0-N-00 SOLENOID VALVE	\$342.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV12-34K-0-N-0	SV12-34K-0-N-00 SOLENOID VALVE	\$476.00
SOLENOID VALVE		SV12-40R-0-N-0	SV12-40R-0-N-00 SOLENOID VALVE	\$356.00
SOLENOID VALVE		SV12-41-0-N-0	SV12-41-0-N-00 W/ 7085186	\$380.00
SOLENOID VALVE		SV12-60-0-N-0	SV12-60-0-N-00 SOLENOID VALVE	\$488.00
SOLENOID VALVE	MANUAL OVERRIDE	SV12-P20AM-0-N-0-N3	SV12-P20AM-0-N-0-N3 SOLENOID VALVE	\$970.00
SOLENOID VALVE	MANUAL OVERRIDE	SV12-P22AM-0-N-0-N3	SV12-P22AM-0-N-0-N3 SOLENOID VALVE	\$988.00
SOLENOID VALVE		SV16-20-0-N-0	SV16-20-0-N-00 W/ 7004406 NUT SOLENOID VALVE	\$240.00
SOLENOID VALVE	CABLE OVERRIDE	SV16-20J-0-N-0	SV16-20J-0-N-00 CARTRIDGE	\$340.00
SOLENOID VALVE	MANUAL OVERRIDE	SV16-20M-0-N-0	SV16-20M-0-N-00 W/ 7004596 NUT	\$306.00
SOLENOID VALVE		SV16-21-0-N-0	SV16-21-0-N-00 W/ 7004426 NUT SOLENOID VALVE	\$278.00
SOLENOID VALVE		SV16-22-0-N-0	SV16-22-0-N-00 W/ 7004406 NUT	\$252.00
SOLENOID VALVE	MANUAL OVERRIDE	SV16-22M-0-N-0	SV16-22M-0-N-00 W/ 7004596 NUT	\$320.00
SOLENOID VALVE		SV16-23-0-N-0	SV16-23-0-N-00 W/ 7004426 NUT	\$286.00
SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV16-23P-0-N-0	SV16-23P-0-N-00 W/ 7004426 NUT	\$320.00
SOLENOID VALVE	CABLE OVERRIDE	SV38-20J-0-N-0	SV38-20J-0-N-00 CARTRIDGE	\$262.00
SOLENOID VALVE		SV38-26-0-N-0	SV38-26-0-N-00 W/ 7004406 NUT	\$166.00
SOLENOID VALVE	WITH SCREEN	SV38-26S-0-V-0	SV38-26S-0-V-00 W/ 7004406 NUT	\$186.00
SOLENOID VALVE		SV38-28-0-N-0	SV38-28-0-N-00 W/ 7004426 NUT	\$248.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV38-28K-0-N-0	SV38-28K-0-N-00 SOLENOID VALVE	\$292.00
SOLENOID VALVE		SV38-30-0-N-0	SV38-30-0-N-00 W/7004406 NUT	\$146.00
SOLENOID VALVE		SV38-38-0-N-0	SV38-38-0-N-00 W/ 7004426 NUT	\$312.00
SOLENOID VALVE	MANUAL O/RIDE KNOB	SV38-38K-0-N-0	SV38-38K-0-N-00 SOLENOID VALVE	\$356.00
SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV38-38P-0-N-0	SV38-38P-0-N-00 SOLENOID VALVE	\$346.00
SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV38-38P-0-V-0	SV38-38P-0-V-00 SOLENOID VALVE	\$352.00
SOLENOID VALVE		SV58-24-0-P-0	SV58-24-0-P-00 W/ 7004406 NUT	\$162.00
SOLENOID VALVE		SV58-25-0-P-0	SV58-25-0-P-00 W/ 7004406 NUT	\$162.00
SOLENOID VALVE		SV58-26-0-P-0	SV58-26-0-P-00 W/ 7004406 NUT	\$176.00
SOLENOID VALVE		SV58-30-0-P-0	SV58-30-0-P-00 W/ 7004406 NUT	\$176.00
SOLENOID VALVE	MANUAL OVERRIDE	SV58-30M-0-P-0	SV58-30M-0-P-00 W/ 7004596 NUT	\$252.00
SOLENOID VALVE		SV58-40-0-P-0	SV58-40-0-P-00 W/ 7004406 NUT	\$210.00
SOLENOID VALVE		SVCL10-30-0-N-0	SVCL10-30-0-N-00 SOLENOID	\$196.00
SOLENOID VALVE - RELIEF		SVRV10-26A-0-N-0	SVRV10-26A-0-N-0 SV VENTED RELIEF	\$302.00
SOLENOID VALVE - RELIEF		SVRV10-26B-0-N-0	SVRV10-26B-0-N-0 SV VENTED RELIEF	\$302.00
SOLENOID VALVE - RELIEF		SVRV10-26C-0-N-0	SVRV10-26C-0-N-0 SV VENTED RELIEF	\$302.00
SOLENOID VALVE - RELIEF		SVRV10-26D-0-N	SVRV10-26D-0-N-0 VENTED SVRV	\$302.00
SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M120	SVRV12-26F-0-N-00-M120 CARTRIDGE	\$352.00

Product type	Option	Code	Description	List price
SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M140	SVRV12-26F-0-N-00-M140 CARTRIDGE	\$352.00
SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M159	SVRV12-26F-0-N-00-M159 CARTRIDGE	\$352.00
SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M170	SVRV12-26F-0-N-00-M170 CARTRIDGE	\$352.00
SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M190	SVRV12-26F-0-N-00-M190 CARTRIDGE	\$352.00
SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M207	SVRV12-26F-0-N-00-M207 CARTRIDGE	\$352.00
SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M210	SVRV12-26F-0-N-00-M210 CARTRIDGE	\$352.00
SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M240	SVRV12-26F-0-N-00-M240 CARTRIDGE	\$352.00
UNLOADING VALVE		UP10-31A-0-N-60	UP10-31A-0-N-60-30/ CARTRIDGE	\$292.00
UNLOADING VALVE		UP10-31A-0-N-70	UP10-31A-0-N-70-30/ CARTRIDGE	\$292.00
UNLOADING VALVE		UP10-31A-0-N-80	UP10-31A-0-N-80-30/ CARTRIDGE	\$292.00

Disclaimer

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