

PRODUCT CATALOGUE AND PRICE LIST 2022





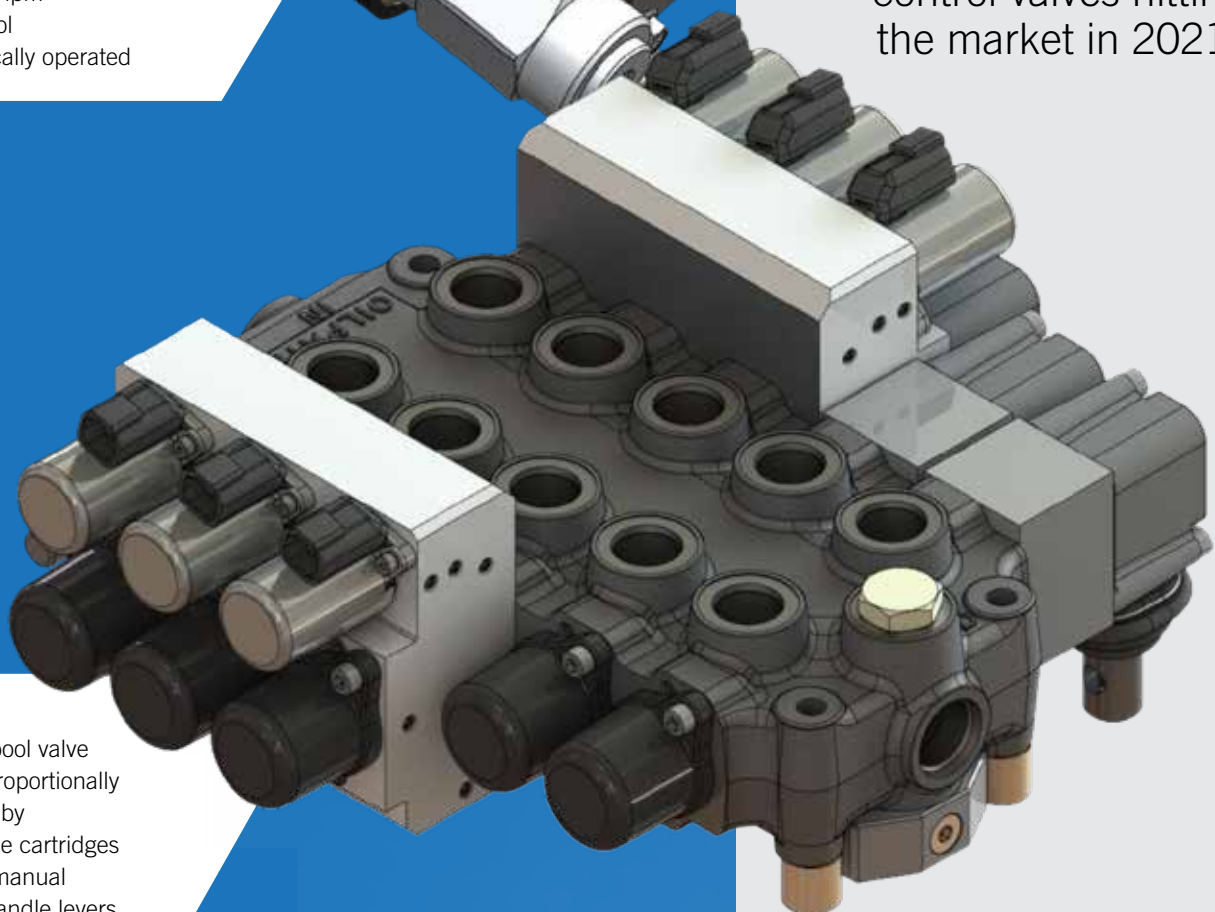
For almost 50 years, Oilpath has been manufacturing directional control valves in Australia—and to this day remains the sole manufacturer of directional control valves in the country.

The OP range remains the benchmark for quality and reliability with new solenoid control valves hitting the market in 2021.



TIPPER VALVE

- ▶ OP22 160 lpm
- ▶ single spool
- ▶ pneumatically operated



SPOOL VALVE

- ▶ OP20 5 spool valve
- ▶ 3 valves proportionally controlled by HydraForce cartridges
- ▶ standard manual override handle levers

An aerial photograph of a construction site featuring several pieces of heavy machinery. At the top, an orange excavator is positioned. To its left, a yellow excavator stands with its arm extended. In the center, a yellow excavator is parked next to a yellow skid steer loader. To the right of the skid steer, there are three large, rectangular metal containers or hoppers, some containing dark material. Below these, a yellow skid steer loader is parked. At the bottom right, a yellow excavator is visible, partially cut off by the frame. The ground is dark and uneven, with some reddish-brown patches.

TELL US YOUR
HYDRAULIC
CIRCUIT AND WE
WILL DESIGN AND
MANUFACTURE
A SOLUTION

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. This includes 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.



QUALITY, TESTED SOLUTIONS

**OILPATH HAS
SUCCESSFULLY
DESIGNED AND
COMMERCIALISED
A COMPREHENSIVE
RANGE OF
HYDRAULIC VALVING
PRODUCTS FOR
THE TRANSPORT,
MOBILE,
INDUSTRIAL AND
MINING MARKETS**



Products are tested before leaving the factory, so when it arrives at your business, you can be rest assured it will work, 100% of the time. When providing a complete hydraulic solution Oilpath uses a 4 phase design procedure:

1



Rigorous simulation testing of circuit prior to manifold design.

2



3D CAD design and manufacturing drawings.

3



Prototype manufactured utilising our in house CNC facilities which include 5 axis machine capabilities, backed up by our on-site engineering team.

4



Full on-site system testing prior to project sign-off.

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

MINING AND 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 AND 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.



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 AND MOBILE

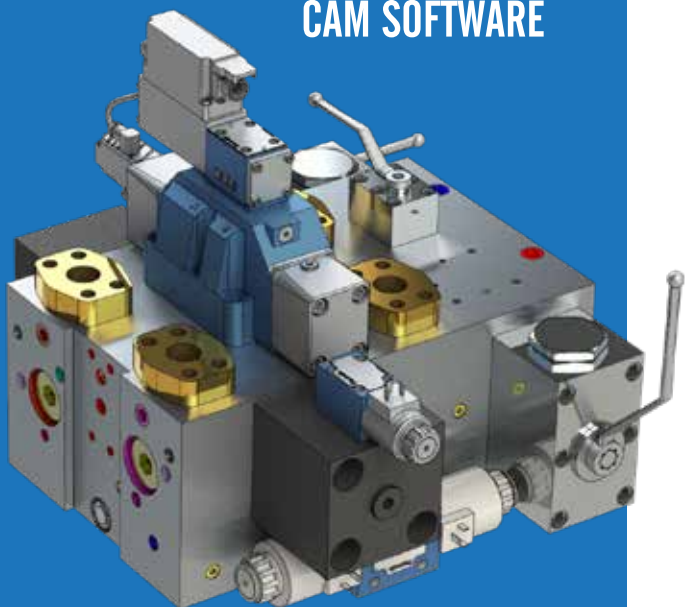
The Diversity of Oilpath's manufacturing capabilities combined with industry specific experience provides a powerful and competitive resource for Transport and Mobile Industry manufacturers.

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.



**OILPATH HAS SUCCESSFULLY
DEVELOPED AND INTRODUCED
NEW, CUSTOMISED CAD AND
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**

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.

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21	OP11	75 Litres Per Minute Directional Control Valves / New upgraded flow characteristics
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51	OP80S	40 & 60 lpm Solenoid Operated 6 Port Diverter Valves
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VALVCO is an Oilpath owned company established to handle product developed in partnerships with other like-minded companies.

The VALVCO VC35 Directional Valve Series provides a minimal footprint compact range of manually operated directional valves for low flow applications. Because of the physical size of VC35 valves, these valves are ideally suited for mounting on small machines where most other valves would be 'out of place'. Like all Oilpath DCV's, the handle assembly is enclosed to reduce the likelihood of corrosion affecting the handle mechanism.

OVERALL SPECIFICATIONS

- Number of Spools..... 1 to 7
- Maximum working pressure..... 320 bar (4600 psi)
- Rated flow 35 lpm
- MATERIAL SPECIFICATIONS Body High tensile cast iron
- Spools Hardened steel
- Seals Buna - N

STANDARD FEATURES

- Parallel circuit
- Direct-acting relief valve, adjustable Set at 210 bar
- Optional side/top inlet and outlet ports
- 3/8" BSP inlet, outlet and work ports
- Open or closed centre positions, 3-way or 4-way operation, motor spool and other spool options
- Hardened steel non-return check

OPTIONS

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

VC35
Model
Designation



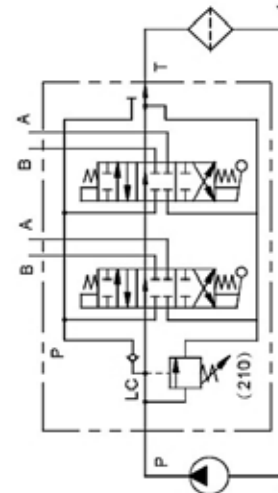
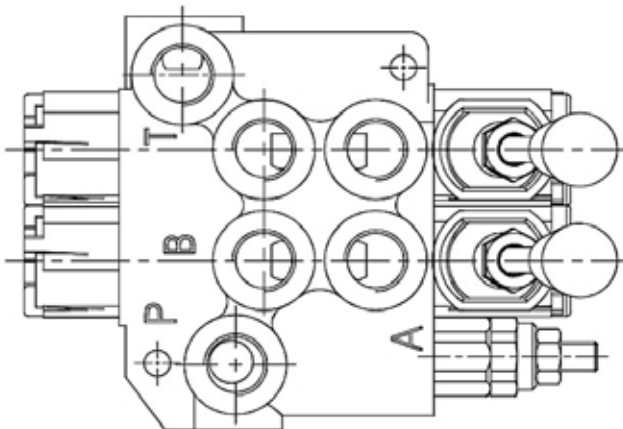
Spool Types		PRV	Options	
D	Double Acting	Relief Valve setting 1000 - 4000 psi 2000 psi standard	PB	Hi pressure carry over plug
M	Motor		D	Three-position detent
S	Single Acting		SCDA	Spring centred detented to A
			SCDB	Spring centred detented to b

VC35 DDDDDDD 2000 D12 Seven station valve with double acting spools detented on spool 1 & 2

VC35

◆ **MODEL** VC35 35 lpm Monoblock Valve

◆ **CONTROL PORT(S)**



◆ **SPECIFICATIONS**

Model Number	Maximum Pressure	Maximum Flow	Weight
VC35	320 bar (4641 psi)	35(9.3 gpm)	*
VC35	Fluid Type		ISO VG 32 , 46 , 68
	Viscosity cSt		10~400 (59~1854 SSU)
	Operating Temperature C°		-15~70 (-5~158°F)
	Contamination Level		ISO4406. 21/19/16 NAS1638,10

● Standard pressure of relief valve sets at 210 bar.

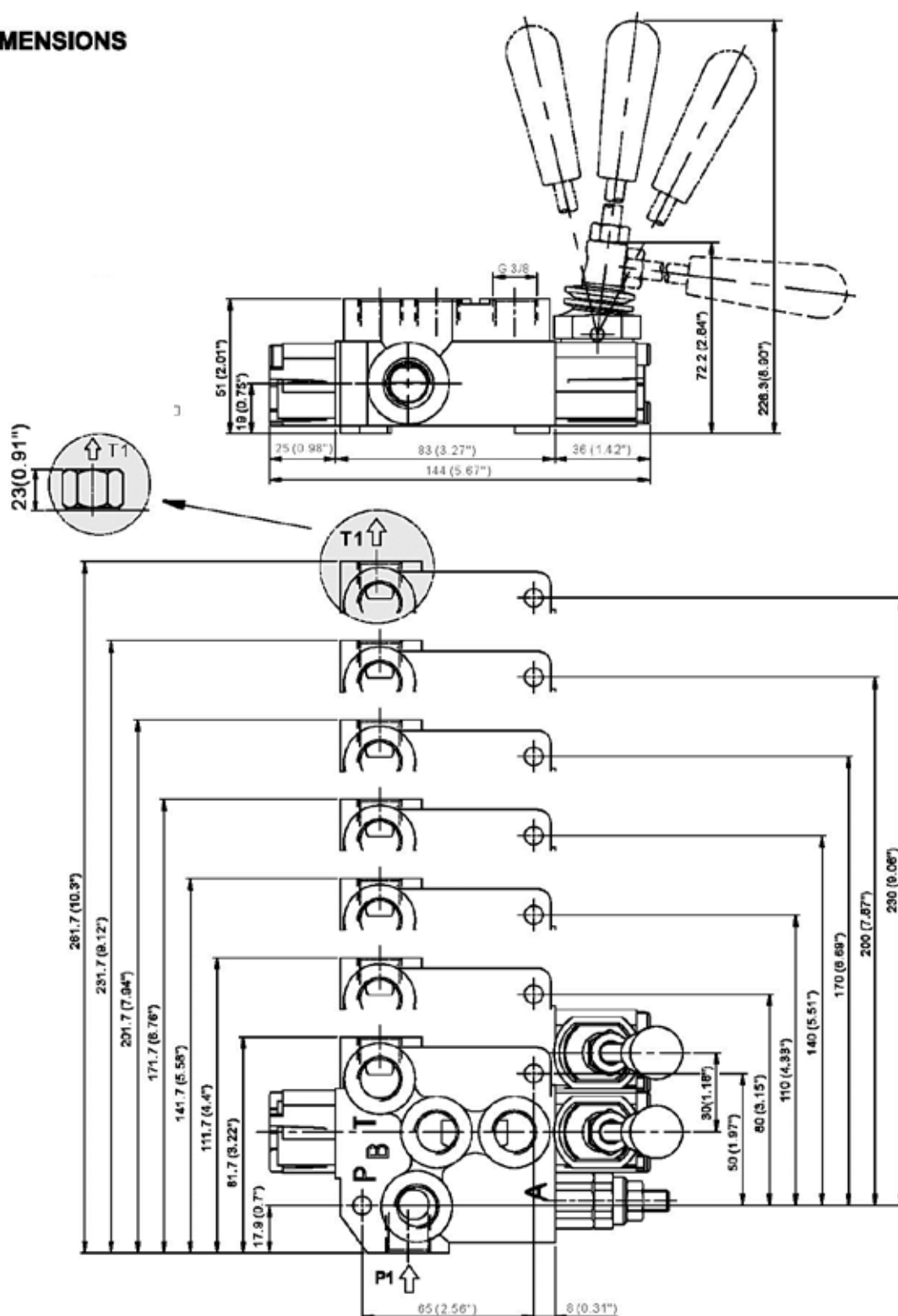
※Any request of setting pressure up to 320 bar, please inform in advance.

VC35

MONOBLOCK DIRECTIONAL CONTROL VALVE

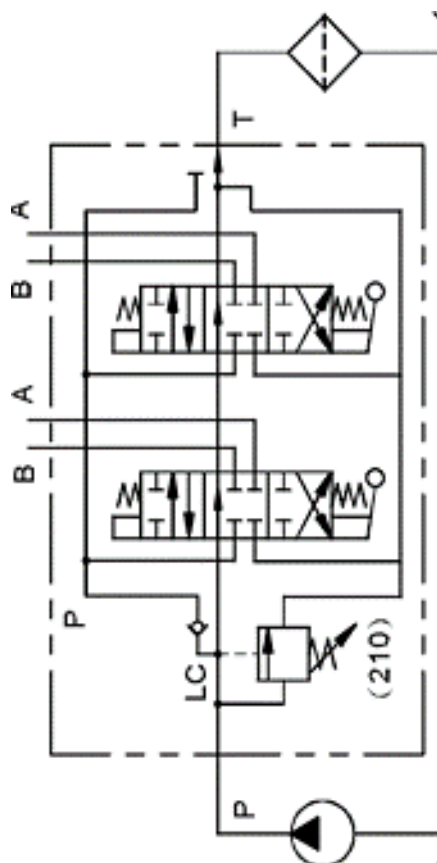
NEW PRODUCT VALVCO VC35 LPM MONOBLOCK DIRECTIONAL CONTROL VALVE 1-7 SPOOLS

◆ DIMENSIONS



	Standard Configuration Description D SPOOLS 2000	Part Number	List Price
VC35-1	VC35 D 2000	00410001	\$214.00
VC35-2	VC35 DD 2000	00420001	\$338.00
VC35-3	VC35 DDD 2000	00430001	\$443.00
VC35-4	VC35 DDDD 2000	00440001	\$580.00
VC35-5	VC35 DDDDD 2000	00450001	\$711.00
VC35-6	VC35 DDDDDD 2000	00460001	\$835.00
VC35-7	VC35 DDDDDDD 2000	00470001	\$957.00

Please contact the factory for alternative configuration pricing





VALVCO is an Oilpath owned company specifically established to handle product developed in partnerships with other like-minded companies.

The VALVCO CV70 Directional Control Valve Range has a small footprint. Available as a solenoid-operated manually overridden directional valves it offers flow up to 70 lpm. Due to the unique compact size of the VC70 valves its ideally suited for mounting on small machines where most other valves would be “out of place”. A typical application could be for radio-controlled use on tilt tray trucks etc. see Tilt Tray Flyer.

OVERALL SPECIFICATIONS

- Number of Spools..... 1 to 7
- Maximum working pressure..... 320 bar (4600 psi)
- Rated flow70 lpm
- MATERIAL SPECIFICATIONS Body High tensile cast iron
- Spools Hardened steel
- SealsBuna - N

STANDARD FEATURES

- Parallel circuit
- Direct-acting relief valve, adjustable Set at 210 bar
- Optional side/top inlet and outlet ports
- 1/2" BSP inlet, outlet and work ports
- Open or closed centre positions, 3-way or 4-way operation, motor spool and other spool options
- Hardened steel load check in the “P” port

OPTIONS

- 12-24volt solenoid operation with manual override
- Closed-circuit & power beyond
- Tilt Tray, recovery truck option available with motor and double-acting spools (see following pages)

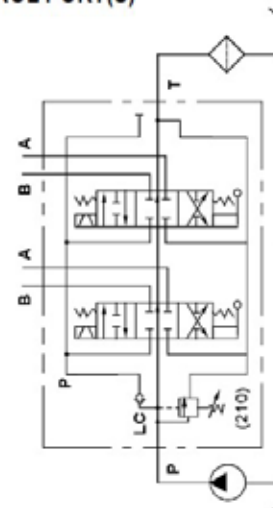
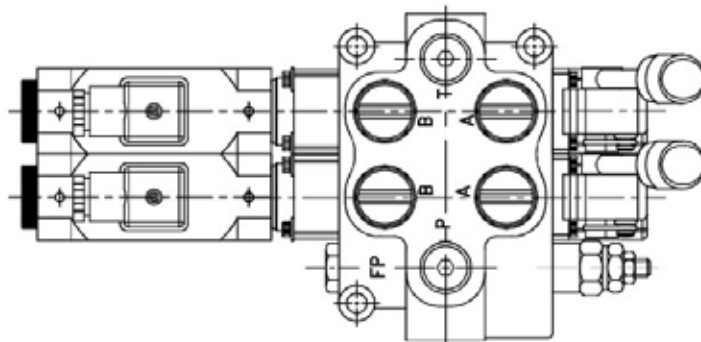
VC70 Model Designation	Spool Types		Relief Setting	Options	
	D	Double Acting		PB	Hi pressure carry over plug
	M	Motor		D	Three-position detent
	S	Single Acting		SCDA	Spring centred detented to A
				SCDB	Spring centred detented to b
				S	Solenoid Operated
				H	Handle extensions
				DC12	Solenoid Voltage
				DC24	Solenoid Voltage

VC70S MMDDD 2000 S123 H123

Five station valve with two motors spools 3 double acting spools solenoid on first, second and third spool handle extension on first, second, and third spool Voltage 24 DC

◆ MODEL OP7

◆ CONTROL PORT(S)



◆ SPECIFICATIONS

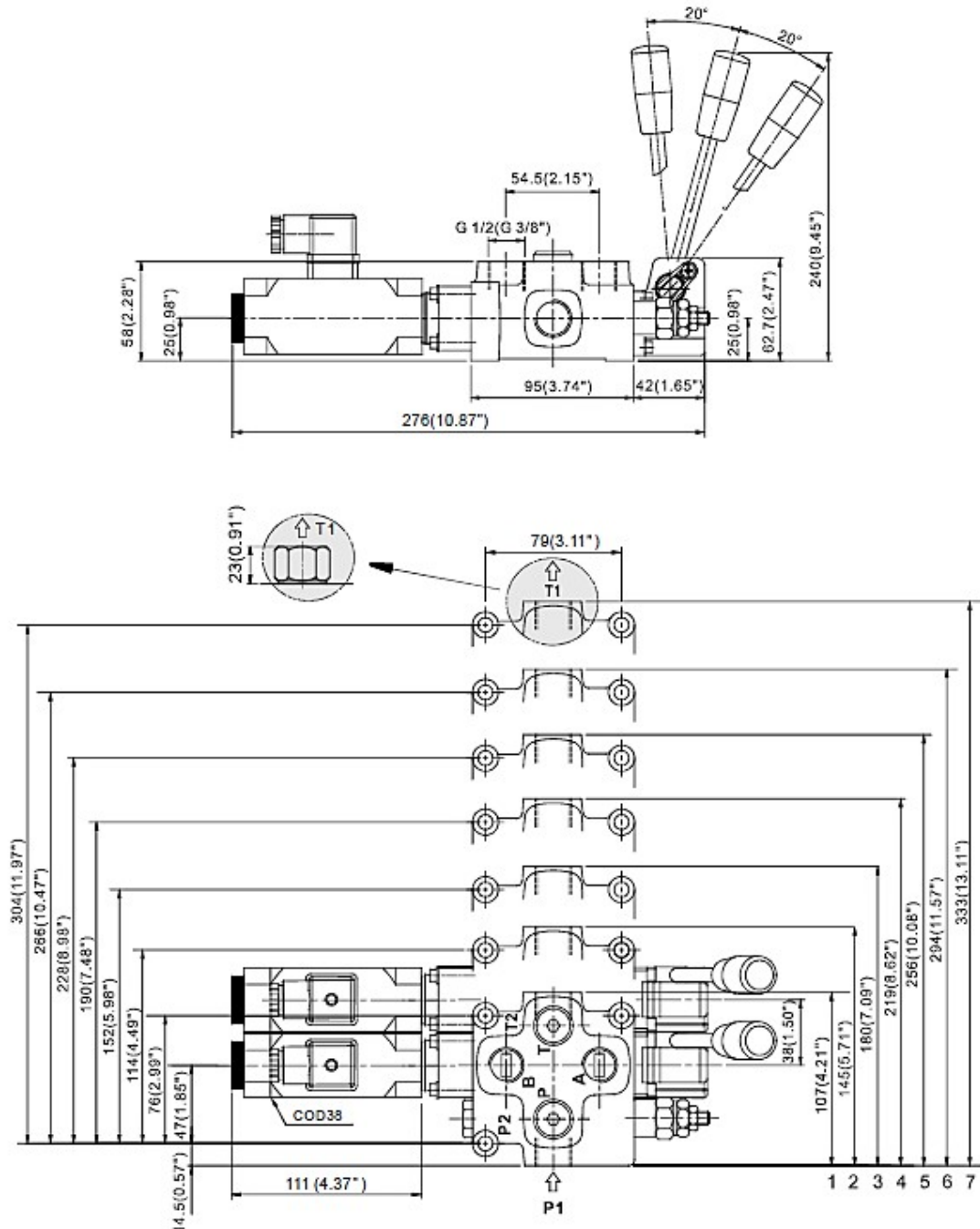
Model Number	Maximum Pressure bar	Maximum Flow lpm	Weight Kg
VC70S	350 (5075 psi)	70 (18.5gpm)	※
Fluid Type		ISO VG 32 , 46 , 68	
Viscosity cSt		10~400 (59~1854 SSU)	
Operating Temperature °C		-15~70 (-5~158 °F)	
Contamination Level		ISO4406. 21/19/16 NAS1638,10	

● Standard pressure of relief valve sets at 210 bar.

※Any request of setting pressure at 350 bar, please inform in advance.

◆ DIMENSIONS

● CONNECTOR (on T1 Port)



All Ports 1/2" bspp

VC70S

MONOBLOCK DIRECTIONAL CONTROL VALVE

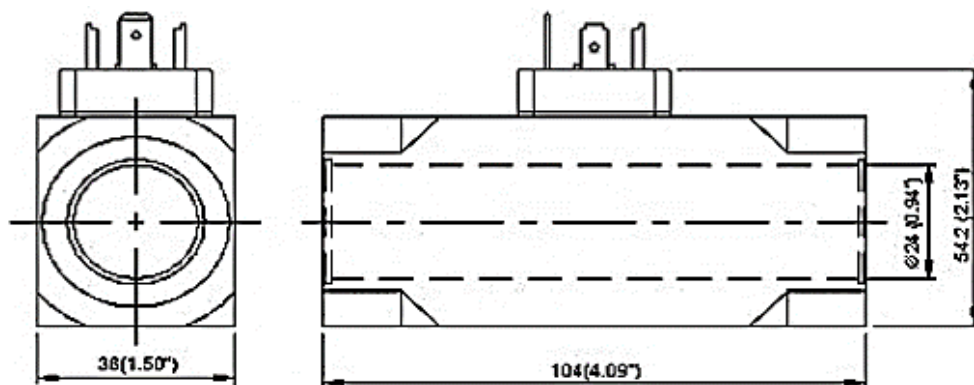
NEW PRODUCT VALVCO VC70S 70 LPM MONOBLOCK DIRECTIONAL CONTROL VALVE 1-7 SPOOLS WITH SOLENOID AND HANDLE

	Standard Configuration Description D SPOOLS 2000	Part Number	List Price
VC70S-1	VC70S D 2000	00771001	\$908.00
VC70S -2	VC70S DD 2000	00772001	\$1,623.00
VC70S-3	VC70S DDD 2000	00773001	\$2,332.00
VC70S-4	VC70S DDDD 2000	00774001	\$3,052.00
VC70S-5	VC70S DDDDD 2000	00775002	\$3,774.00
VC70S-6	VC70S DDDDDD 2000	00776001	\$4,565.00
VC70S-7	VC70S DDDDDDD 2000	00777001	\$5,358.00

Coil for VC70S

Part Number	Voltage			Current & Power at Rated Voltage	
	Source Rated	HZ	Range	in rush current	Holding Current (Amps)
407019	DC12		10.8-13.8 V		2.58
407020	DC24		21.6-26.4 V		1.33

Above values are based on a temperature of 30 °C, electric voltage allowance 15%



Valvco is a Oilpath owned company specifically set up to handle product developed in partnerships with other like minded companies.

The Valvco VC70 is an economically priced, specially configured 70 litre per minute monoblock control valve for Tilt Tray Truck applications.

The first 3 spools are 24 volt solenoid operated spools that have manual override levers. The first 2 spools are configured with Motor Spools, the remaining spools are Double Acting.

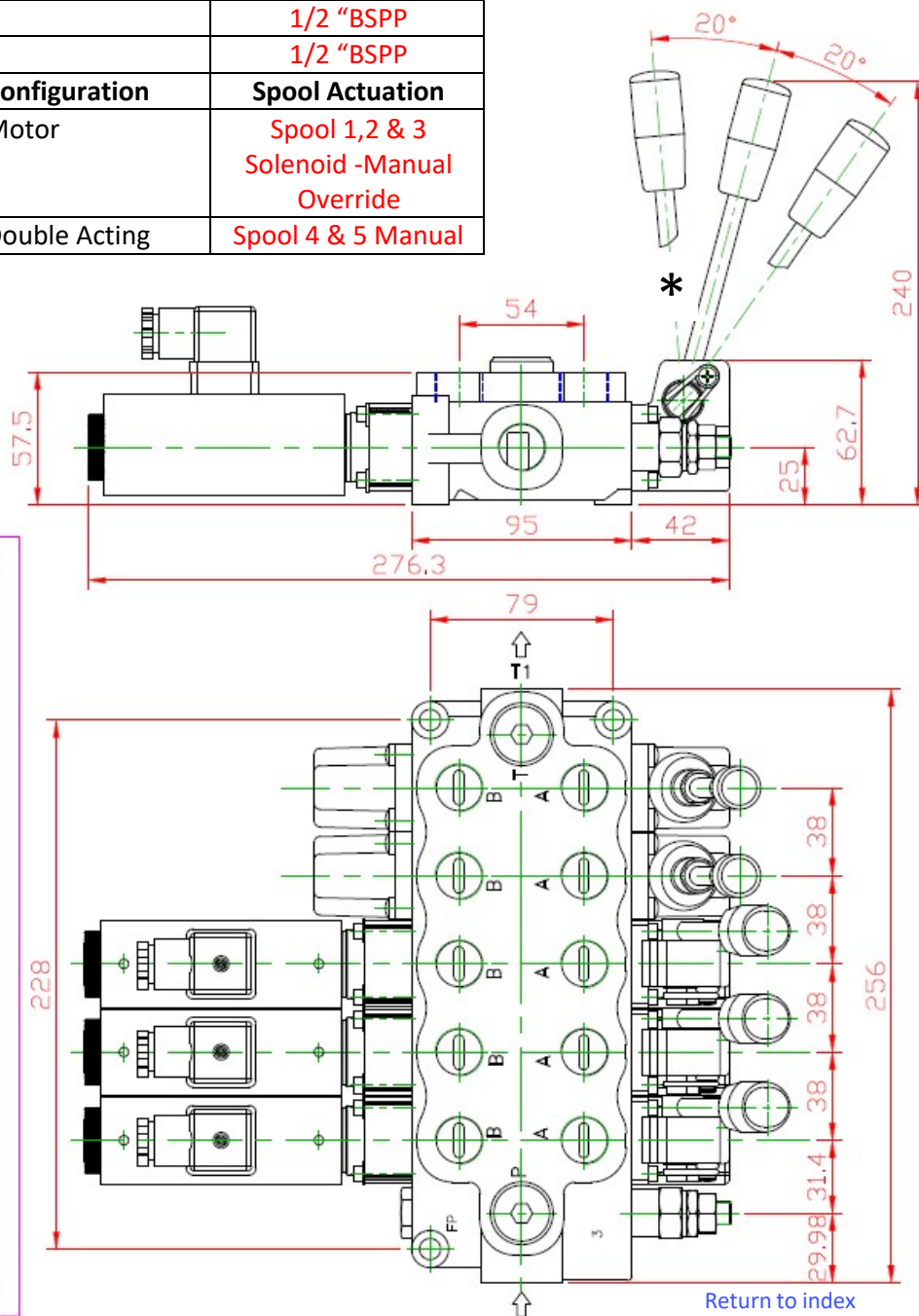
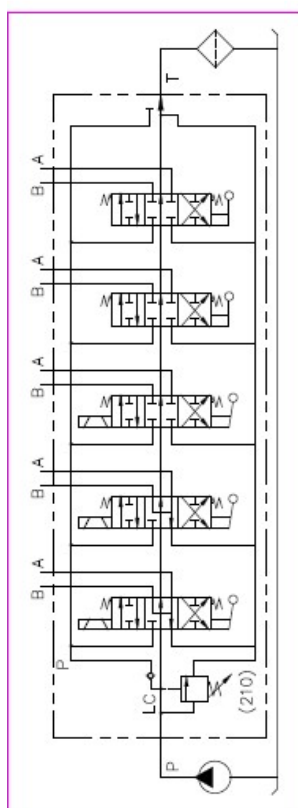
This valve has a small footprint for its capability. (see dimensions on next sheet).



* This valve can be configured with the handle levers assembled and solenoids “upside down” to ease installation issues.

	Maximum	Set
Maximum Flow	70 lpm	70 lpm
Maximum pressure	350 bar	210 bar
Voltage	12VDC or 24VDC	24VDC
Inlet Port		1/2 "BSPP
Outlet Port		1/2 "BSPP
A & B Ports		1/2 "BSPP
	Configuration	Spool Actuation
Spools 1 & 2	Motor	Spool 1,2 & 3 Solenoid -Manual Override
Spools 3,4, & 5	Double Acting	Spool 4 & 5 Manual

* This valve can be configured with the handle levers assembled and solenoids "upside down" to ease installation issues.



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"	\$385
0112*	2					\$590
0113*	3	60				\$785
0104*	4	55				\$967

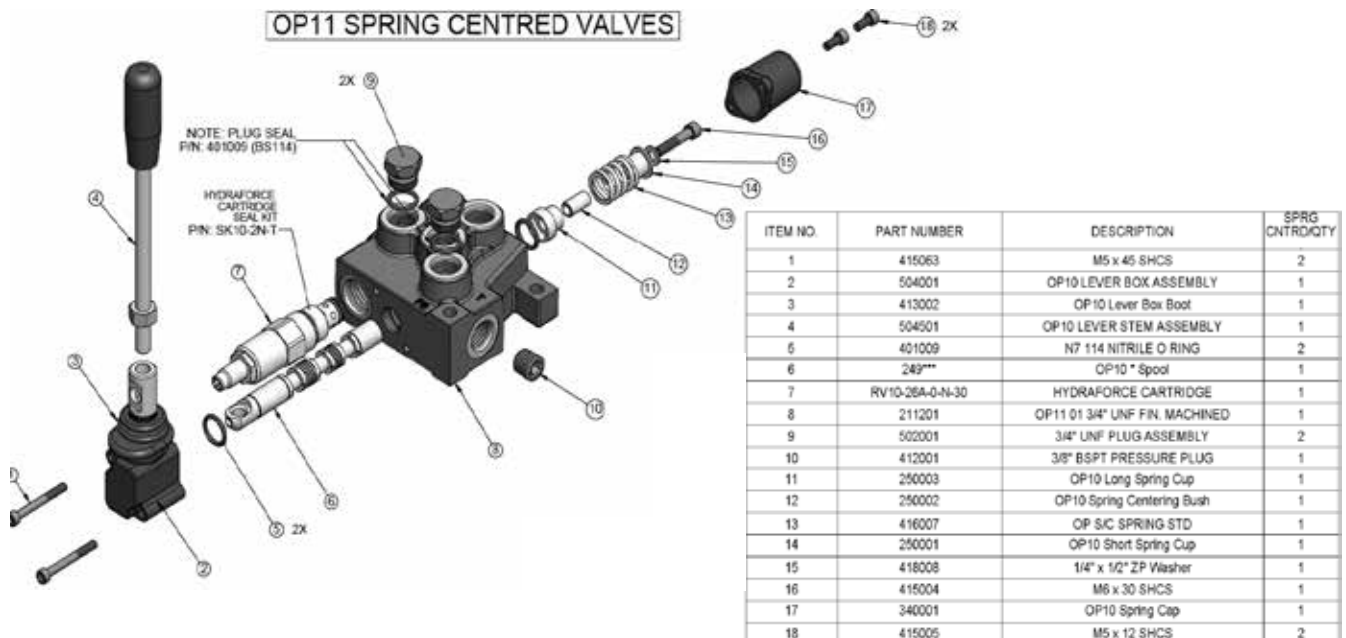
*prices as per listings on page 15

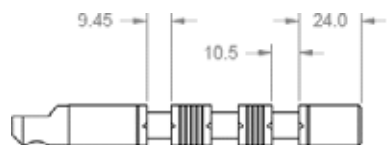
The OP11 Directional Valve provides a compact range of manually operated directional valves for medium flow applications. Like all Oilpath DCV's the handle assembly is fully enclosed to reduce the likelihood of corrosion affecting the handle mechanism. The handle bracket and spring end cover are made 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

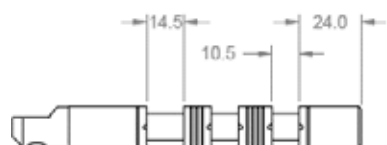
- 2 and 3 position detent & spring centred detent
- Pneumatic spool actuation
- Closed circuit & power beyond
- Electric limit switch

**Note 4 spool valves remain as OP10 designation*

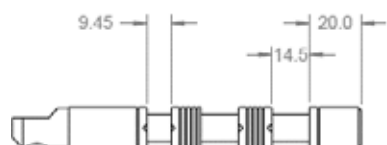




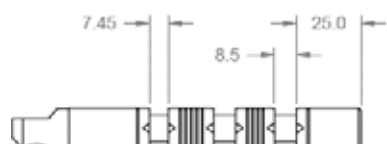
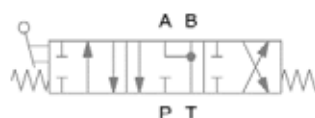
D Spool
PART NO: 249002



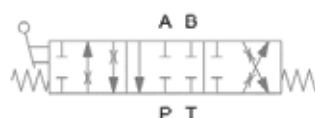
S Spool
PART NO: 249003



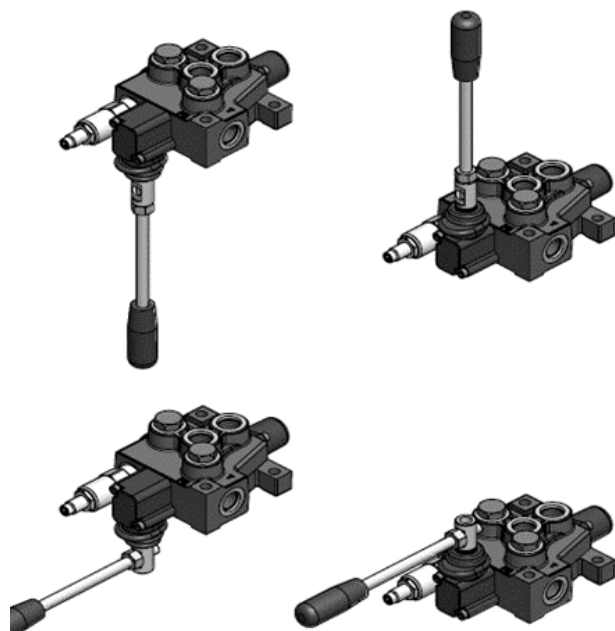
M Spool
PART NO: 249004

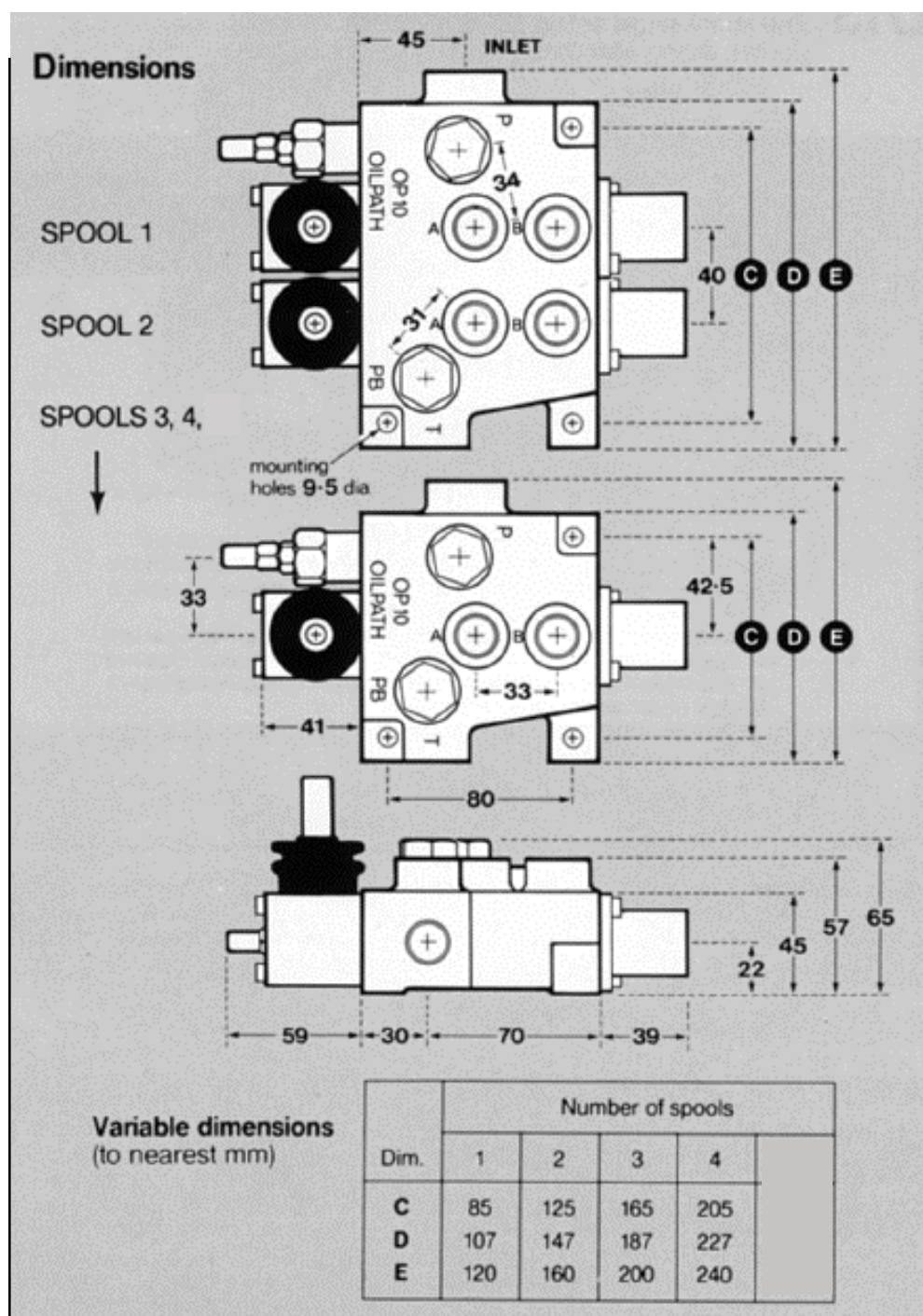


Q Spool
PART NO: 249017



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





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 1 st spool double acting spring centred 2 nd spool single acting detented
OP11	DDD	1500	D1A23	Triple all double acting spools 1500 psi relief detent on 1 st spool pneumatically operated 2 nd & 3 rd 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 2 nd & 3 rd spool

OP10 & OP11 Directional Control Valve Pricing

Part Number	Description	List Price for Base Valve	Standard Double Acting (no options)
0111xxxx	Single Spool Valve	\$442.00	\$385.00
0112xxxx	Two Spool Valve	\$678.00	\$590.00
0113xxxx	Three Spool Valve	\$901.00	\$785.00
0104xxxx	Four Spool Valve	\$1,112.00	\$967.00

OP10 & OP11 Options Pricing (on new builds)

OPTIONS	Part Number	Description	List Price
D1	507020	Detent per spool, (three pos.) factory fitted # indicates pos.	\$53.00
CC	511048	OP10 Pressure Relief Blanking Plug kit, for closed centre	\$53.00
	511014	OP11 Pressure Relief Blanking Plug kit, for closed centre	\$64.00
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	\$112.00
13A	248013	Optional micro switch sleeve for S/A spools with code E, kit only (add on spool)	\$28.00
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	\$173.00
SCDB	509012	Spring Centred Detent with det. acting on B port is pressurised	\$173.00
S/O	509010	Spring offset to "B" (No centre position)	\$58.00
A1		OP118 Air Kit with handle control	\$311.00
MU		Valve prepared for a Marine environment	\$52.00

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

OP10/11 SPARES		
		List Price
RV50-26A-0-P-50	HydraForce Relief Valve up to 5000 psi	\$212.00
RV10-26A-0-N-30	HydraForce Relief Valve up to 3000 psi	\$191.00
512011	Seal Kit Single Spool	\$37.00
512015	Seal Kit Double Spool	\$43.00
512043	Seal Kit Triple Spool	\$47.00
512017	Seal Kit Four Spool	\$51.00
511048	CC OP10 Pressure Relief Blanking Plug kit, for closed centre	\$58.00
511014	OP11 Pressure Relief Blanking Plug kit, for closed centre	\$73.00
509018	SCDA spring Centred Detent with det. acting on A port is pressurised	\$187.00
509012	SCDB Spring Centred Detent with det. acting on B port is pressurised	\$187.00
509001	Spring Centring Kit to suit all spools, without spring cap	\$52.00
507020	D1 Detent per spool, (three pos.) kit, or factory fitted # indicates pos.	\$57.00
506081	OP118 Air Kit for OP11	\$466.00
505016	Relief Valve complete cartridge including lift drop check	\$156.00
504504	Handle Lever Stainless Steel 10mm diameter	\$48.00
504503	Handle Lever complete with nut and rubber knob M8	\$43.00
504501	Handle Lever complete with nut and rubber knob	\$43.00
504027	Lever Box with shift leg & rubber boot but no handle	\$129.00
503010	Micro Switch, (one per valve) standard micro switch This switch has a weather-proof rating to IP67	\$124.00

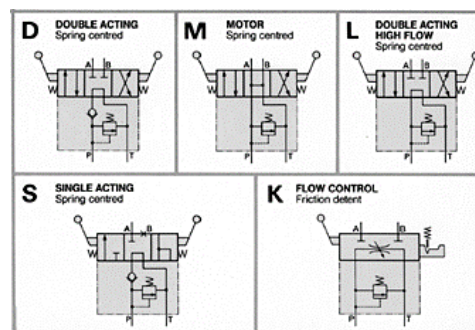
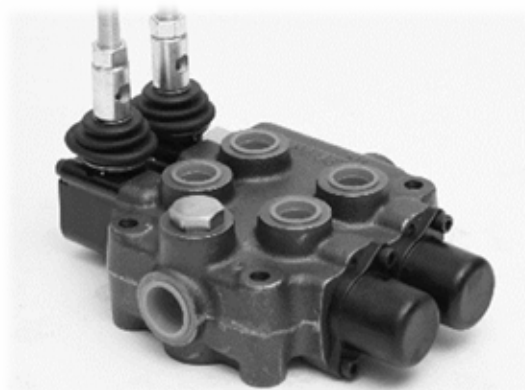
503009	13A Optional micro switch sleeve for S/A spools with code E, kit only	\$174.00
503006	E1234 Electric Limit Switch for four spool valve kit Note: Micro switch is not included in price	\$538.00
503005	E123 Electric Limit Switch for triple spool valve kit	\$416.00
503004	E12 Electric Limit Switch for double spool valve kit	\$300.00
503003	E1 Electric Limit Switch for single spool valve, kit or factory fitted	\$174.00
416220	Rubber Boot Bottom Clips	\$6.00
416219	Rubber Boot Top Clips	\$6.00
416009	Relief Valve Main Spring Z (not required for HydraForce Cartridges)	\$33.00
416008	Relief Valve Main Spring X (not required for HydraForce Cartridges)	\$33.00
416005	Relief Valve Main Spring Y (not required for HydraForce Cartridges)	\$33.00
413002	Rubber Boot for lever box	\$17.00
340001	Spring Cap supplied without M5 cap screws	\$36.00
249017	Q Optional D/A spool with metering for low flow DC power units	POA
249004	Motor Spool with no spring centring mechanism	\$156.00
249003	Single Acting Spool with no spring centring mechanism	\$156.00
249002	Double Acting Spool with no spring centring mechanism	\$156.00

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
0201*	1	120	315 bar	25bar	¾” P,A&B T-1”	\$518
0202*	2					\$761
0203*	3	110				\$1,027
0204*	4	100				\$1,312
0205*	5					\$1,619

*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.

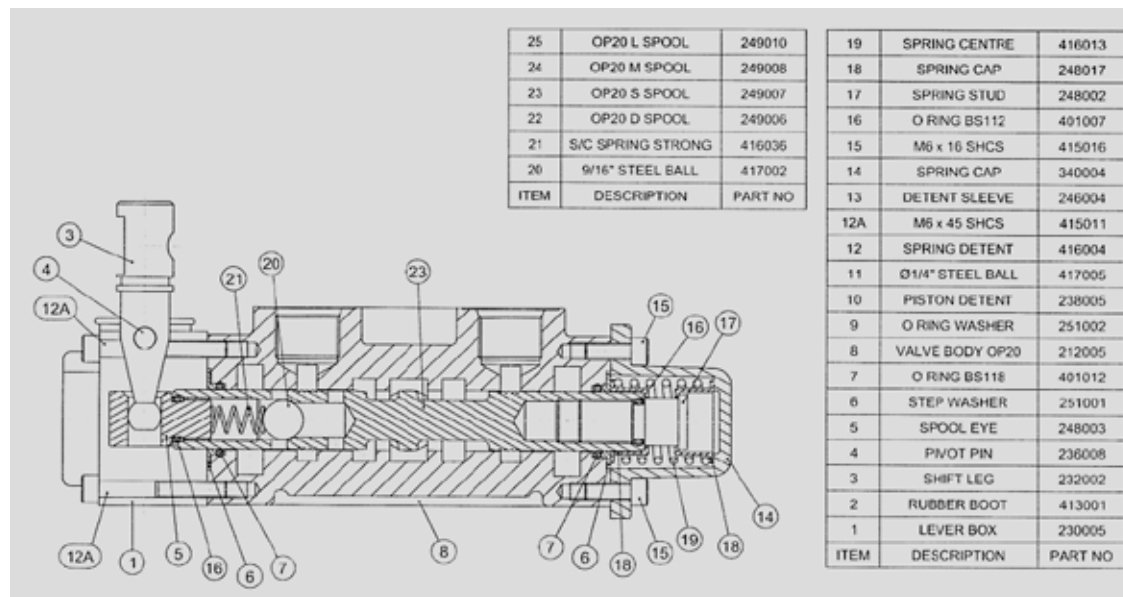
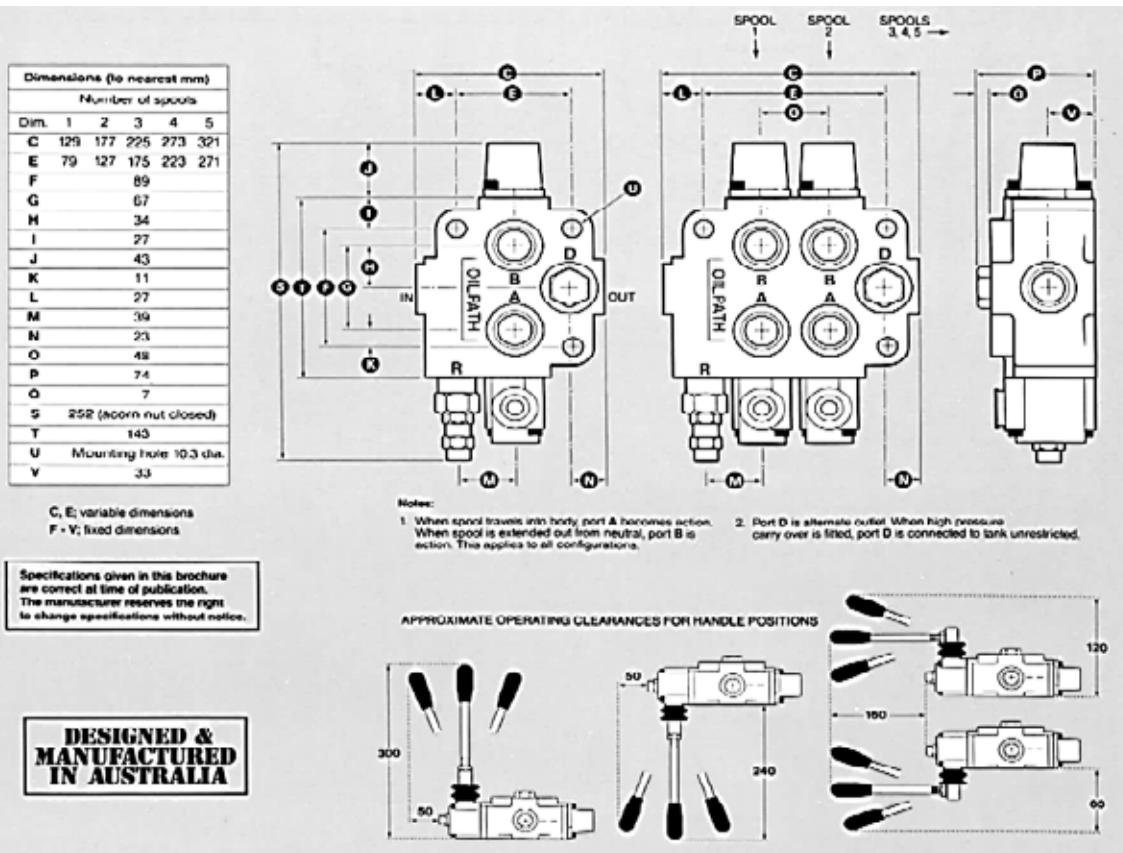


STANDARD FEATURES

- Parallel circuit
- Integral HydraForce direct acting relief valve, adjustable, factory set at 140 bar
- Optional side/top outlet ports
- 3/4" 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



Spool Type		Relief Setting	Options			
D	Double Acting	Specify pressure within a range of 600-4000 psi	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			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

OP20 Directional Control Valve Pricing

Part Number	Description	List Price for Base Valve	Standard Double Acting List Price (no options)
0201xxxx	Single Spool Valve	\$594.00	\$518.00
0202xxxx	Two Spool Valve	\$875.00	\$747.00
0203xxxx	Triple Spool Valve	\$1,180.00	\$1,027.00
0204xxxx	Four Spool Valve	\$1,510.00	\$1,312.00
0205xxxx	Five Spool Valve	\$1,862.00	\$1,619.00

P20 Options Pricing (on new builds)

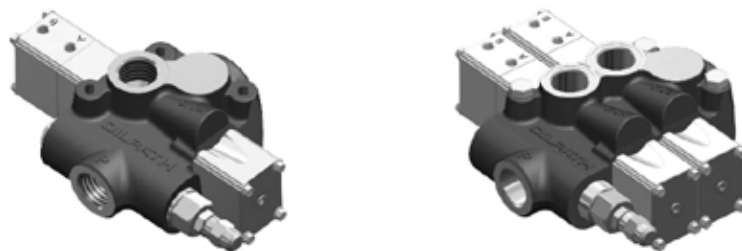
OPTIONS for OP20	Part Number	Description	List Price
P	-	Priority Flow Control Spool Factory fit only, lead time applies	\$457.00
K	-	Spool includes friction detent and can only be factory fitted	\$128.00
L	-	L Spool is D/A no load checks, used for high flows applications	\$51.00
D1	507007	Detent per spool, (3 position) factory fit, # indicates position	\$59.00
SCDB	509020	Spring Centred Detent with det. Acting on B port is pressurised	\$177.00
SCDA	509007	Spring Centred Detent with det. acting on A port is pressurised	\$177.00
PB	511003	High Pressure Carry over plug for power beyond "Hi-Cap"	\$34.00
PBH	511005	High Pressure Carry over plug 1- 1/16" UNF Hi - Flow	\$81.00
CC	511047	Closed Centre Plug (Plug A) part of kit for closed centre	\$34.00
NR	511002	Pressure Relief Plug (Plug B) part of kit for closed centre	\$32.00
LW	-	Pressure Relief Lock Wire (lead seal)	\$34.00
BF	-	Bottom Face Outlet available only as special build from factory	POA
S/O	-	Spring Offset P-B (No Centre Position)	\$43.00
MU	-	Mine Use per spool, factory build only, nylon end caps and plated spool	\$43.00
W1	506023	OP106 air shift	\$249.00
-	506028	OP106 Solenoid manifold kit (includes manifold, screws and 'O' rings. 12or 24-volt DC	\$128.00
	506027	OP106 Solenoid kit (includes manifold kit, and 2 off solenoid valves	\$544.00

-	506025	OP106 Solenoid Air kit (incl. OP106 kit, manifold, and 2 off solenoid valves 24-volt DC	\$761.00
-	506031	same as above for 12volt DC	\$761.00
H1	-	Used only in price build for new assembly requiring dual control, (e.g.) lever and air or lever and cable.	\$157.00
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	\$59.00
-	-	If above spools are ordered with 1 1/16"un service ports, per spool and in a valve with R1 or R2 relief cavity.	\$59.00
FBC	-	Port relief cavity last spool - suit RV08-20A not including cartridge	\$100.00
Port Relief	RV08-20A-0-N-XX	Relief Valve	\$146.00
-	CP08-20- N	Plug VC08-2to suit above cavity (CP08-20N)	\$32.00
AS xx	SVRV10-26X	Relief and solenoid unloading adaptor, nominate voltage and pressure.	\$423.00

OP20 Spare Parts Pricing

Part Number	DESCRIPTION	LIST PRICE
MU for Spool	For Marine or mine use ADD on per spool (exchange for like)	\$38.00
513044	Motor Spool with spring centring mechanism	\$218.00
513037	L Spool with spring centring mechanism	\$218.00
513034	Double Acting Hi Flo Spool with spring centring mechanism	\$203.00
513029	Single Acting Hi-Flo Spool with spring centring mechanism	\$203.00
513028	Single Acting Spool with spring centring mechanism	\$203.00
513027	Double Acting Spool with spring centring mechanism	\$203.00
512055	OP106 Seal Kit all seals	\$51.00
512002	Seal Kit Single Spool all seals and metal step washers	\$52.00
512008	Seal Kit Double Spool all seals and metal step washers	\$66.00
512029	Seal Kit Triple Spool all seals and metal step washers	\$81.00
512004	Seal Kit Four Spool all seals and metal step washers	\$91.00
512005	Seal Kit Five Spool all seals and metal step washers	\$115.00
512021	OP105 Seal Kit all seals	POA

512019	OP104 Seal Kit all seals	POA
512016	OP103 Seal Kit all seals	\$17.00
512007	Proportional Air Seal Kit (old kit with stainless steel piston)	\$17.00
512003	Proportional Air Seal Kit (new kit with aluminium piston)	\$119.00
511047	CC Closed Centre Plug (Plug A) part of kit for closed centre	\$35.00
511005	PBH High Pressure Carry over plug 1- 1/16" UNF Hi - Flow	\$84.00
511003	PB High Pressure Carry over plug for power beyond "Hi-Cap"	\$36.00
511002	NR Pressure Relief Plug (Plug B) part of kit for closed centre	\$34.00
509020	SCDB Spring Centred Detent with det. Acting on B port is pressurised	\$190.00
509017	Spring Centring Kit to suit all spools, supplied without spring cap	\$66.00
509007	SCDA Spring Centred Detent with det. acting on A port is pressurised	\$190.00
507007	D1 Detent per spool, (3 position) kit,	\$61.00
506028	OP106 Solenoid manifold kit (includes manifold, screws & 'O' rings)	\$136.00
506034	OP106 Solenoid manifold kit (includes manifold, screws & 'O' rings 24 v DC	\$136.00
506027	OP106 Solenoid kit (includes manifold kit, and 2 off solenoid valves 24 v DC	\$580.00
506025	OP106 Solenoid Air kit (incl. OP106 kit, manifold, 2 off solenoid valves 24V	\$817.00
506031	OP106 Solenoid Air kit (incl. OP106 kit, manifold, 2 off solenoid valves 12V	
506023	W1 OP106 air shift	\$267.00
505025	Relief Valve R2 cartridge set to 200psi	\$274.00
505020	Relief Valve R2 cartridge set to 200psi Old Style and Spool	\$203.00
504502	Handle Lever complete with nut and rubber knob	\$41.00
504028	Lever Box with shift leg & rubber boot but no handle	\$179.00
504015	H, Kit B used when converting standard lever assembly valve to dual control, (e.g.) lever and air or lever and cable.	\$137.00
504014	H, Kit A used when fitting dual control, with air or cable already fitted.	\$314.00
504010	Handle Assembly Old Style not including handle lever	\$194.00
502019	Spool Eye New Style to suit lever box handle (current style)	\$38.00
413001	Rubber Boot for lever box	\$17.00
340004	Spring Cap supplied without M6 cap screws	\$41.00
249011	L Spool only	\$165.00
249008	Motor Spool only	\$177.00
249007	Single Acting Spool only	\$165.00
249006	Double Acting Spool only	\$165.00
RV10-26A	OP20 Relief Valve RV10-26A-0-N-30	\$185.00



**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

- BodyHigh tensile strength cast iron
- Spools Hardened steel spools
- SealsBuna - N

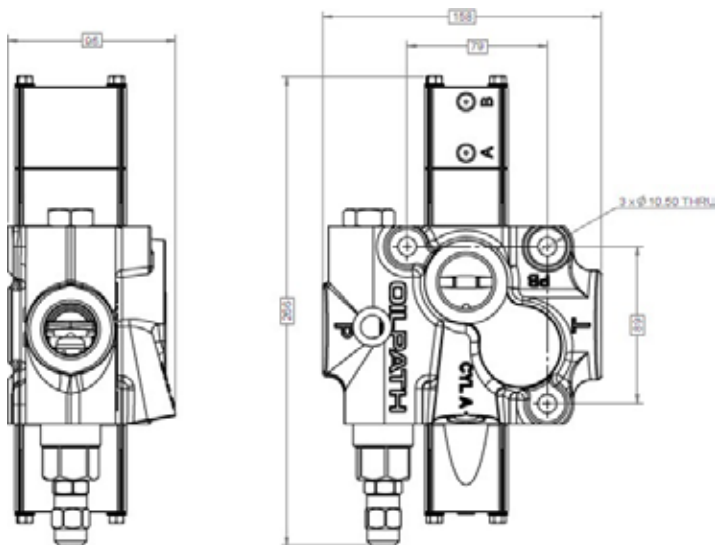
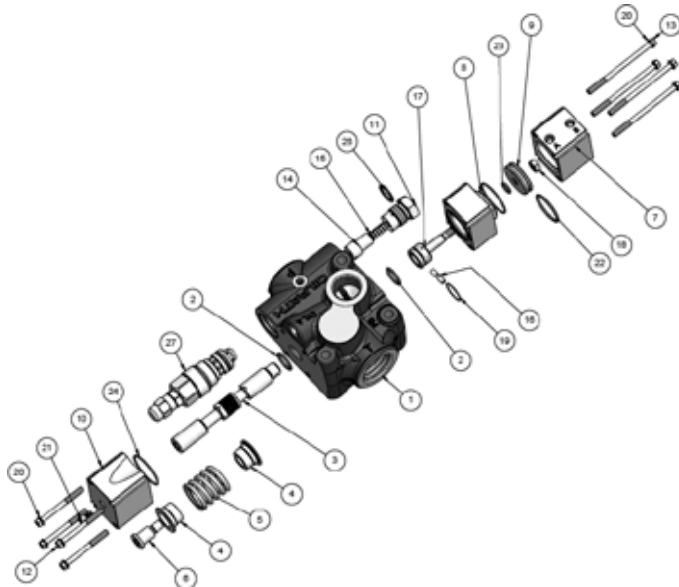
STANDARD FEATURES

- 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

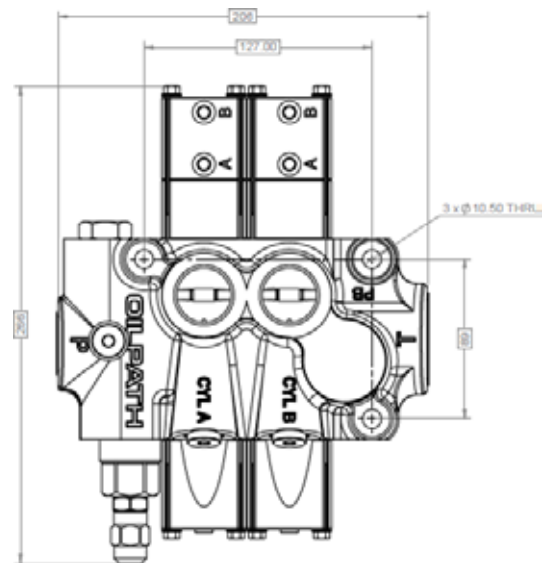
OP22

160 LPM SINGLE & DOUBLE SPOOL DIRECTIONAL CONTROL VALVES FOR THE TIPPING INDUSTRY

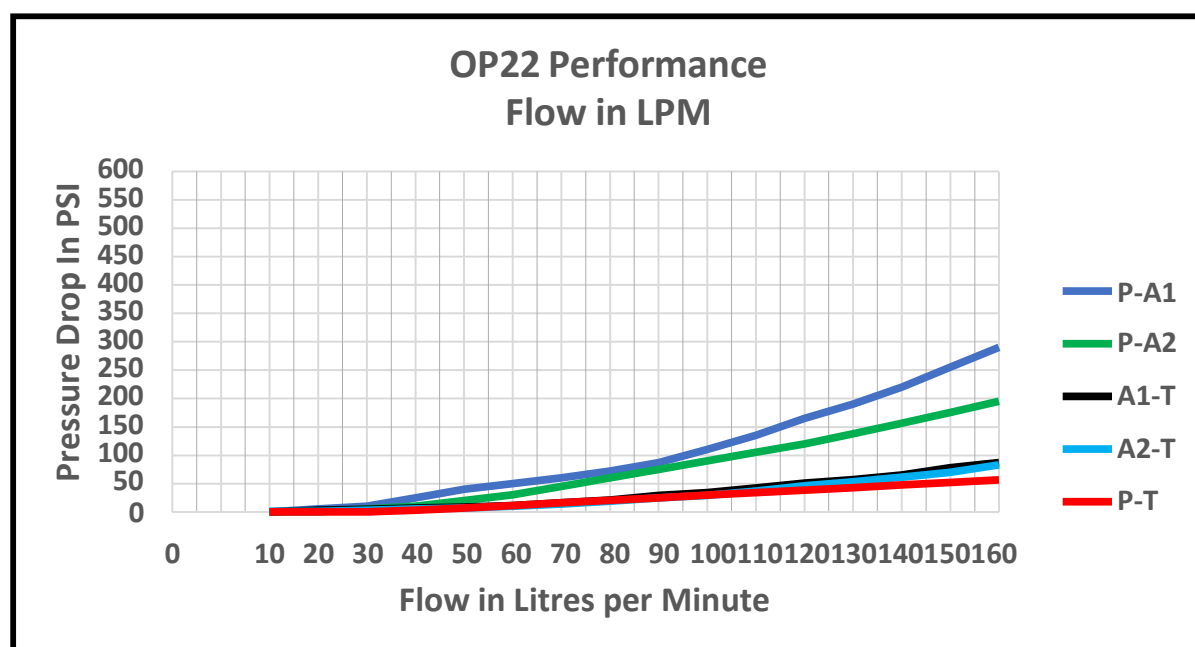
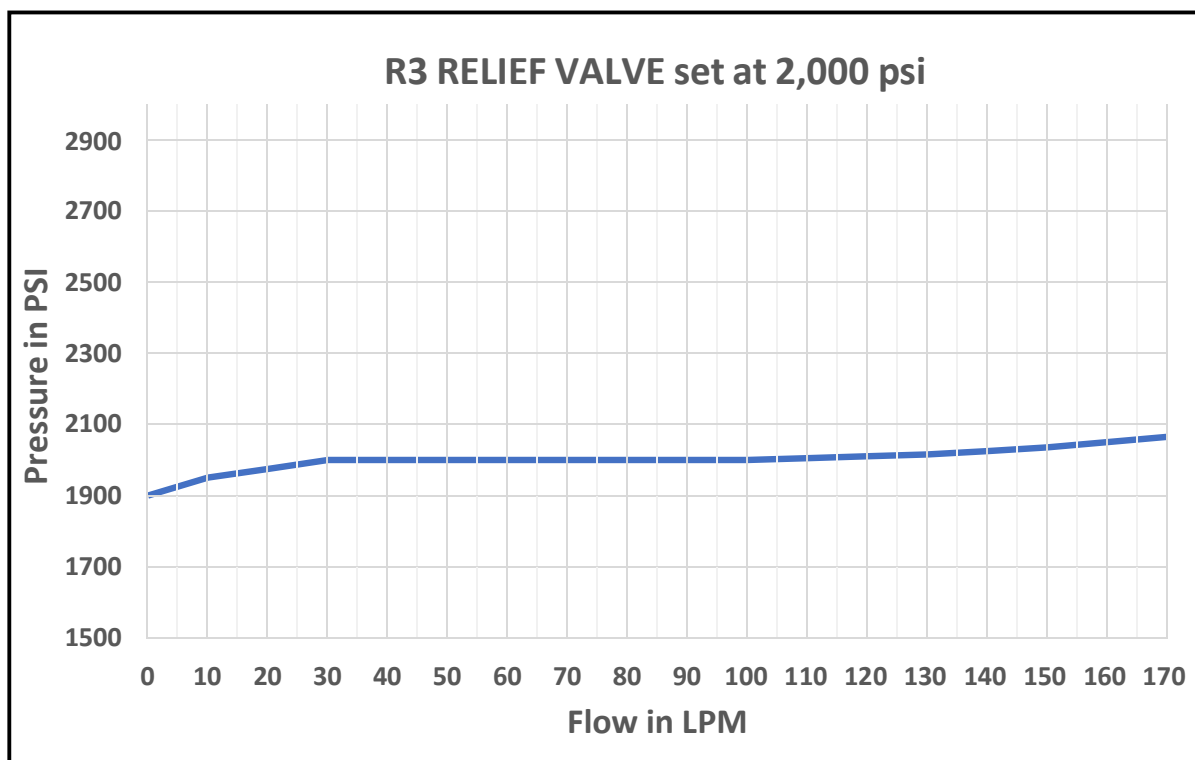
ITEM NO	PART NUMBER	DESCRIPTION	QTY
1	202101	OP22 SINGLE SPOOL CASTING R3 RELIEF	1
2	401010	BS 110 NITRILE O-RING	2
3	246035	SPOOL	1
4	250031	Spring Cup - OP22	2
5	416210	Spring Centre Spring	1
6	244021	Centre Stud - OP22 Spool	1
7	253159	Air Cylinder - Extruded Aluminium	1
8	253161	Housing Extension	1
9	239080	Air Piston - OP22	1
10	253160	Spring Cap - Extruded Aluminium	1
11	240330	OP22 Lift Drop Check Plug	1
12	415511	M6 x 60 Small Hex Forged Bolt (Grade 4.6)	4
13	415512	M0 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	236035	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 0.00M ZPRL W-TN RIBBED LOCK WASHER ZINC PLATED	0
21	505052	1/8" BSPT Breather Valve Assembly	1
22	401196	BS 125 NITRILE O-RING	1
23	401113	BS 110 NITRILE O-RING	1
24	401304	BS 029 NITRILE O-RING	2
25	401493	BS 028 NITRILE O-RING	1
26	401066	BS 910 NITRILE O-RING	1
27	505060	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 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	\$644.00	\$707.00	\$858.00

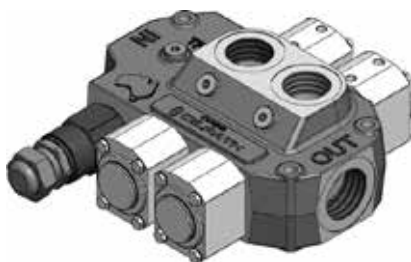
Part Number	DESCRIPTION OP22 DOUBLE SPOOL	LIST PRICES Qty 10+	Qty 5 - 9	Qty 1- 4
02220007	OP22 SS A12 R3 1"BSPP - P,A,B 1-1/4"BSPP-T NO PORT RELIEF CAVITY (STD)	\$1,047.00	\$1,229.00	\$1,413.00

OP22 Truck Valve Pricing

Part Number	DESCRIPTION	LIST PRICES
512104	OP22-1 Seal Kit	\$41.00
512098	OP22 Seal kit	\$61.00
	OP22 Air Cylinder Seal Kit	\$83.00
505069	OP22 R3 Relief Valve Cartridge	\$343.00
249335	OP22 Spool only	\$152.00
505052	OP22 Spring Chamber Vent	\$54.00
504060	OP22 Optional Handle Assembly	NO LONGER AVAILABLE

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

*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

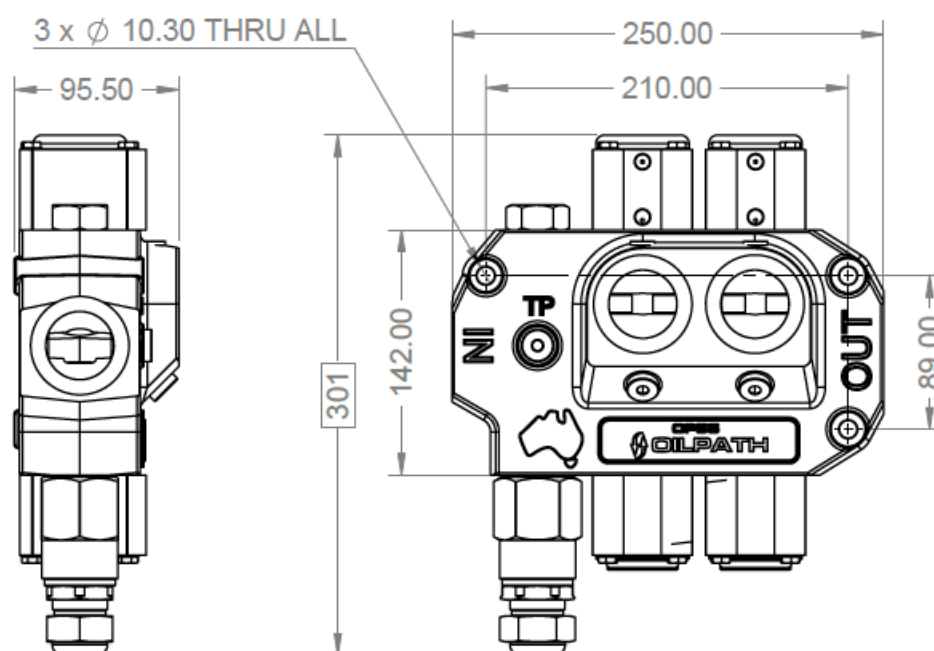
- Rated Flow..... 250 lpm.
- Maximum working pressure..... 250 bar (3500 psi)
- Working ports..... 1" bspp or 1 ¼" bspp
- Tank Port 1 ¼" bspp 1 ½ "bspp

MATERIAL SPECIFICATIONS BODY

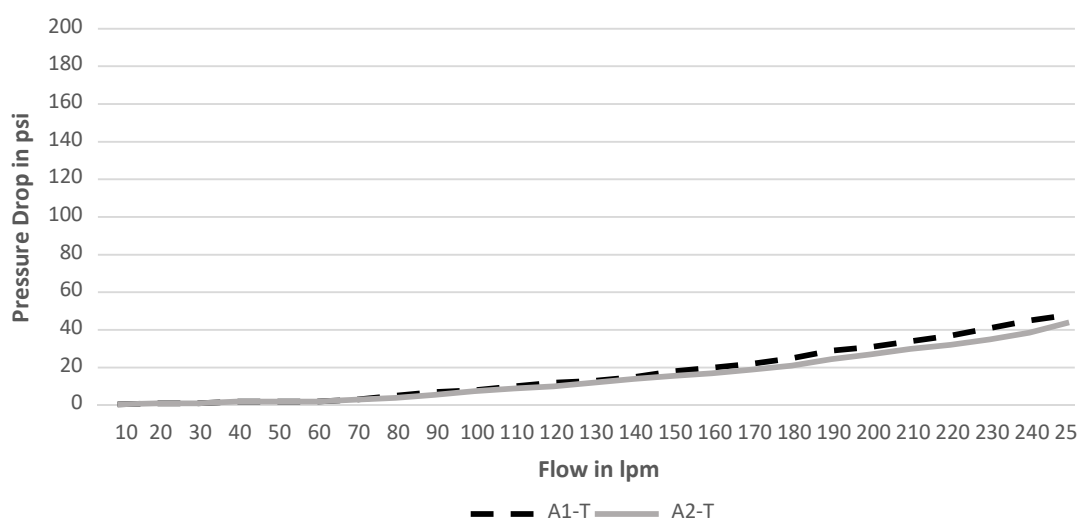
- BodyHigh tensile strength cast iron
- Spools Hardened steel spools
- SealsBuna - N

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

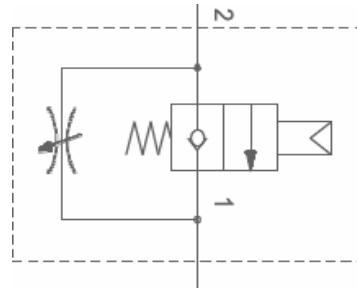


OP55 Flow Curves



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	\$644.00	\$707.00	\$858.00

**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.

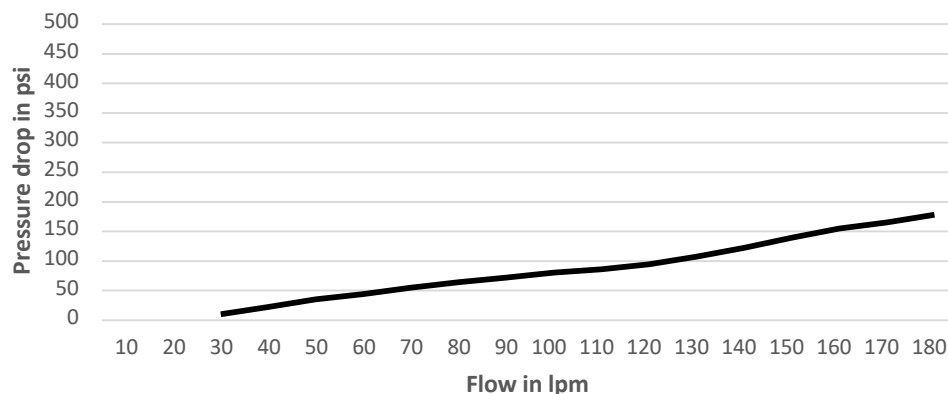
OVERALL SPECIFICATIONS

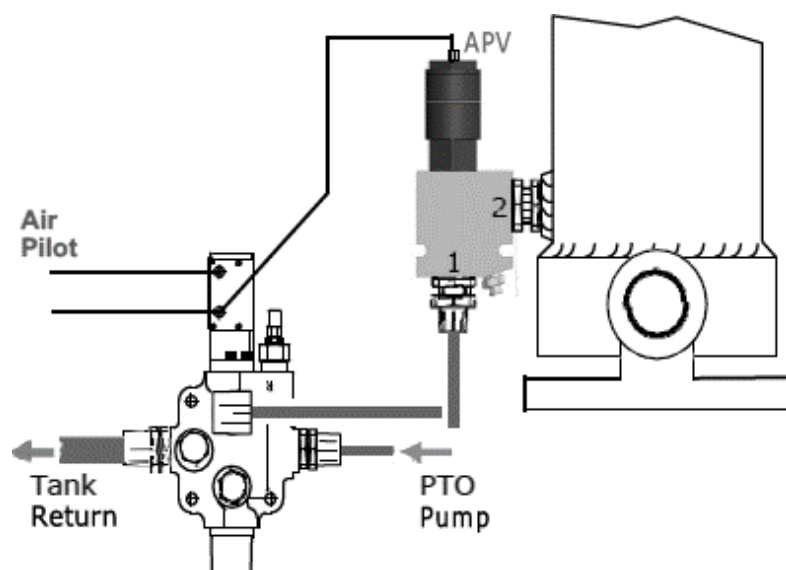
- Maximum working pressure.....210 bar (3000 psi)
- Rated flow180 ltrs/min

MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile Aluminium
- SealsBuna - 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.

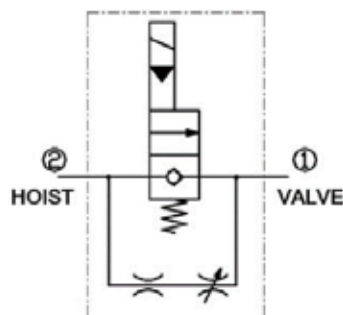
The only exception to the above is the external BS-029 neoprene “Breather” O-ring that needs to be replaced after 5 years or sooner if there are visible signs of deterioration.

Code	DESCRIPTION	List Prices 20+	10-19	5-9	<5
690222 OILPATH	OP-APV-16-22 HOIST BLOCKING VALVE 1" BSPF - OILPATH LOGO	\$689.00	\$770.00	\$901.00	\$1,084.00

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

ELECTRIC HOIST BLOCK VALVE

ELECTRICALLY OPERATED HOIST BLOCKING VALVE



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.

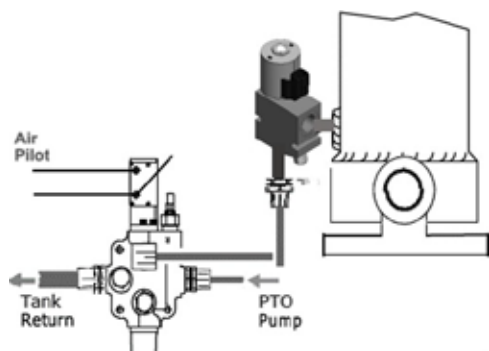
This valve utilises the world class HydraForce hardened steel poppet system and high-quality solenoids combination providing fast reliable operation and low leakage.

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

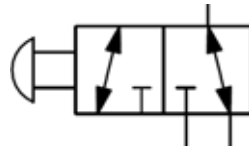
- Body.....High tensile Aluminium
- SealsBuna - N



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	62	26	\$384.00	\$468.00
690053	124	26	\$431.00	\$510.00
690106	124	13	\$457.00	\$538.00
690107	62	13	\$380.00	\$468.00



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 flow118 ltrs/min (100. gpm)

MATERIAL SPECIFICATIONS

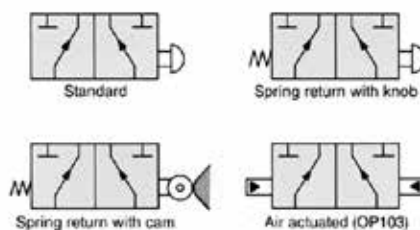
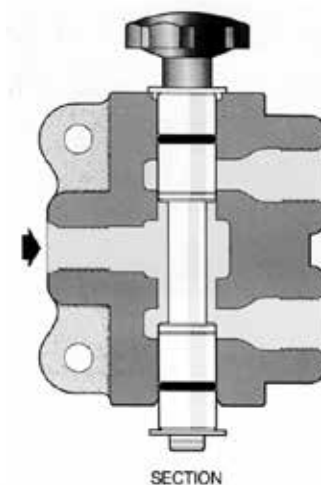
- Body High tensile strength Australian cast iron
- Spools Hardened steel chrome plated
- SealsBuna - N

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

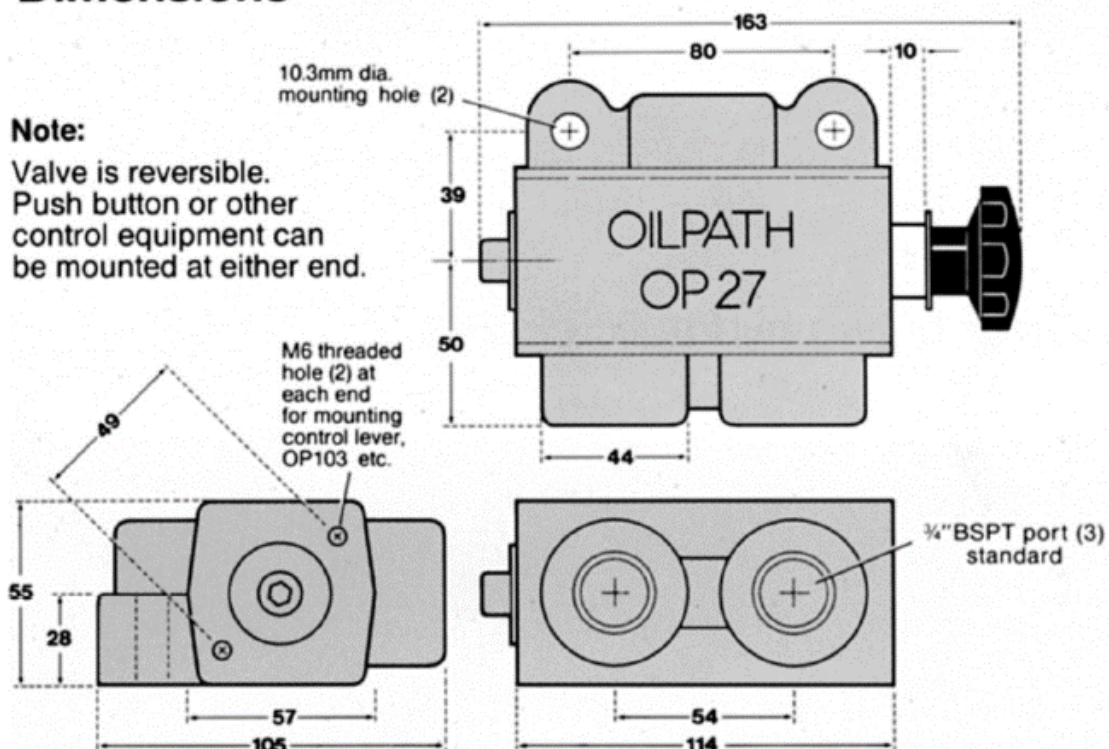
- Handle Operation (OP20 Handle)
- Air Operation
- Detent System
- Spring Offset
- Roller Cam with Spring Offset
- Alternative ports include 7/8"un, 1-1/16"un, 1-5/16"un, 3/4"bspp, 1"bspp, 1/2" bspt & 1"bspt.



Dimensions

Note:

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



OP27 Valve Pricing

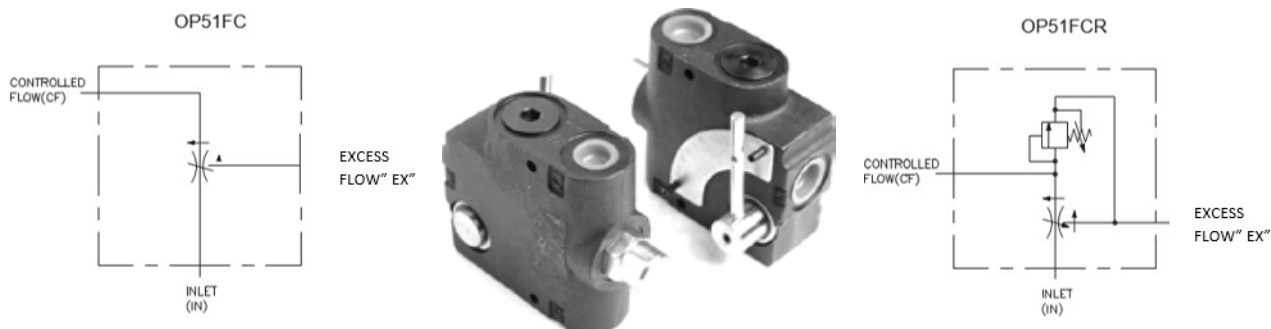
Part Number	Description	List Price
02700100	3/4" Ports and fitted with a plastic knob	\$300.00
02701300	3/4" Ports and fitted with spring offset kit	\$324.00
02706002	3/4" Ports and fitted with spring offset kit & new style air kit	\$475.00

OP27 Options Pricing

Part Number	Description	List Price
H	Handle operated, OP20 style	\$96.00
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)	\$18.00
509013	Spring offset kit	\$57.00
507017	Detent kit	\$389.00
506044	B1 Air Kit (used with s/off)	\$196.00
504028	Lever Box Assembly	\$179.00
420003	Plastic Knob without washer	\$57.00
249001	Spool without knob or washers, plain	\$192.00



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.

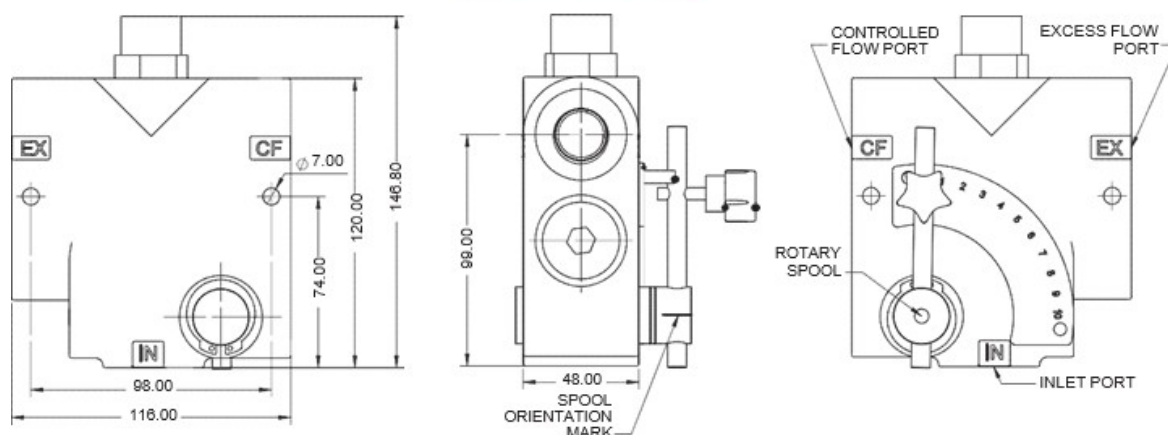
OVERALL SPECIFICATIONS

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

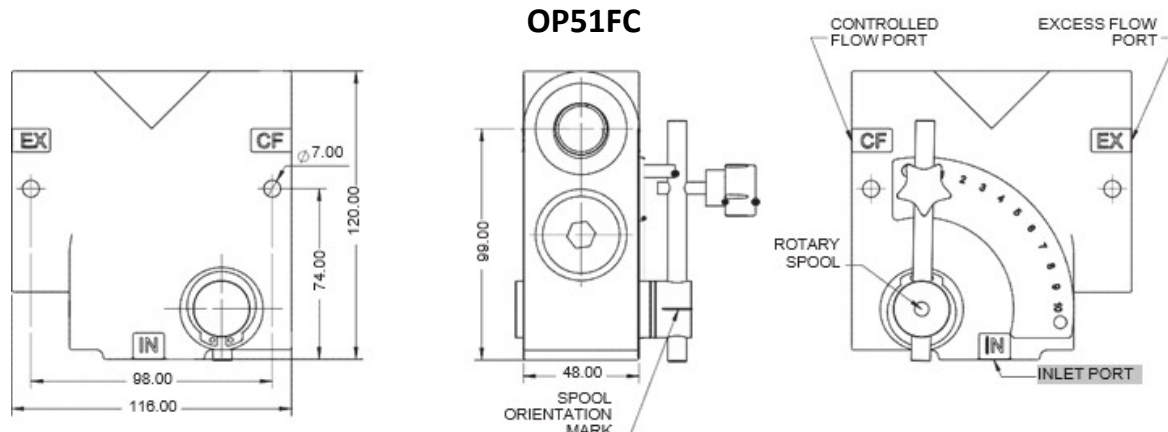
MATERIAL SPECIFICATIONS BODY

- BodyHigh tensile strength cast iron
- SpoolsHardened steel chrome plated spools
- SealsBuna - N

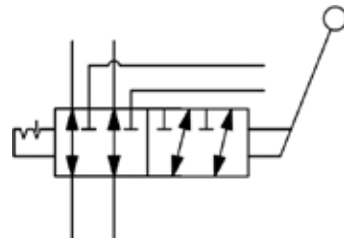
OP51FCR



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	\$279.00
OP51FC - 3/4	3/4" BSPP	No	0 - 30	0 - 113	3.8 kg	\$279.00
OP51FCR - 1/2	1/2" BSPP	Yes	0 - 16	0 - 60	4.0 kg	\$303.00
OP51FCR - 3/4	3/4" BSPP	Yes	0 - 30	0 - 113	4.0 kg	\$303.00



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

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

STANDARD FEATURES

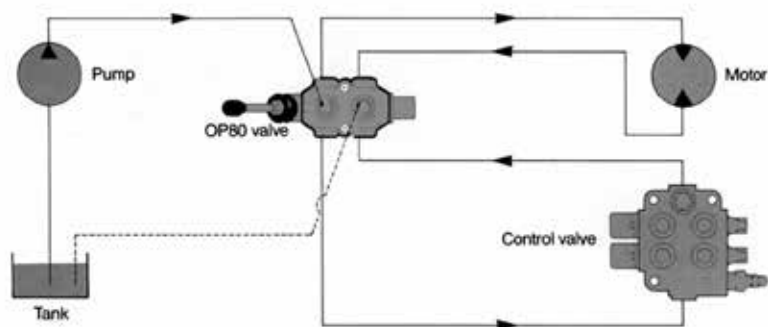
- 6-way 2-position circuit
- 1/2" bspt Ports
- Simple push pull operation with Knob Actuator
- Front inlet port position
- Easily added to an existing OP20 Circuit

OPTIONS

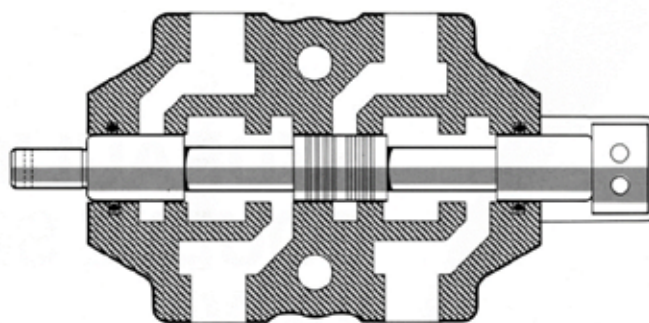
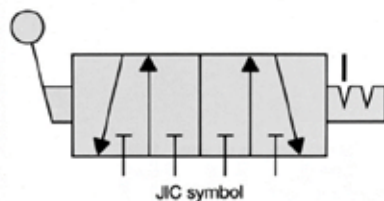
- Handle Operation (OP20 Handle)
- Air Operation
- Detent System
- Spring Offset
- Alternative ports include 7/8"un, 1-1/16"un, 3/4"bspt, 3/4"bspp

Typical application

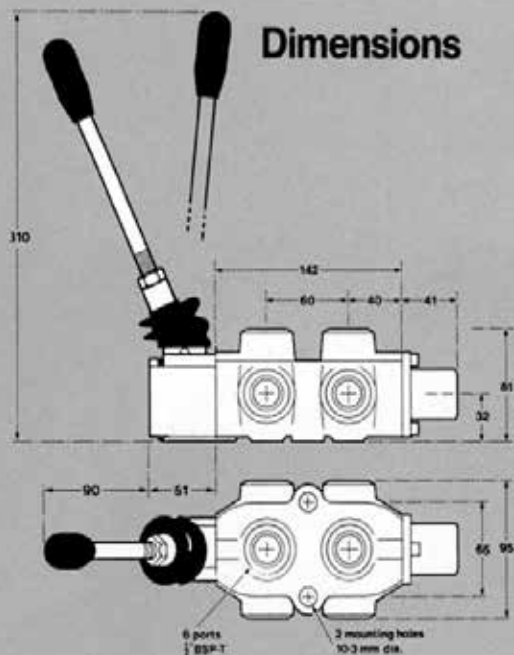
In this circuit OP80 valve is directing hydraulic pressure from pump to either a motor or a control valve.



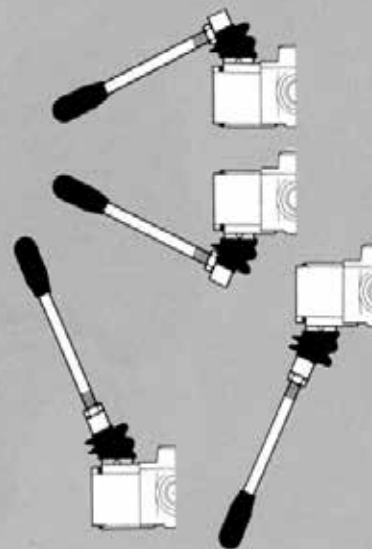
Schematic



Dimensions



Convenient linkage enables easy repositioning of handle



OP80 Six Port Selector Valve Price List

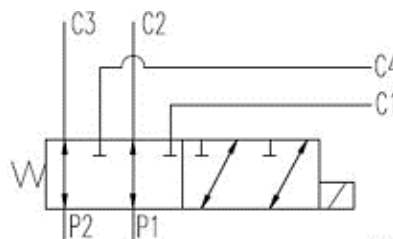
Part Number	Description	List Price
08000100	OP80 1/2"BSPT fitted with 2 position detent and OP20 style handle	\$495.00
08001000	OP80 1/2"BSPT K fitted with a black plastic knob (push pull)	\$426.00
08063000	Fitted with Air Kit and spring offset kit	\$611.00

OP80 Options Price List

Part Number	Description	List Price
MU	Marine use lever box and end cap	\$131.00

OP80 Spares Price List

Part Number	Description	List Price
512037	Seal kit (Spool O rings)	\$10.00
509014	Spring offset kit	\$54.00
507002	Detent Kit Complete assembly	\$157.00
506044	B1 Air Kit (used with s/off)	\$196.00
504502	Handle Lever complete with nut and rubber knob	\$43.00
504028	OP80 Lever Box	\$179.00



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

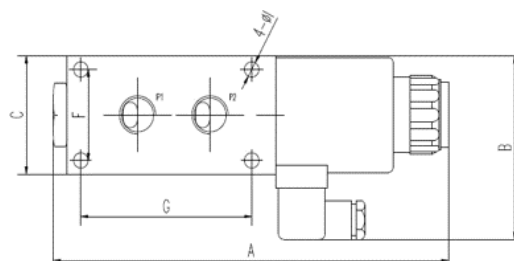
- Maximum working pressure..... 250 bar (3500 psi)
- Maximum Casting shock pressure..... 840 bar (12,000 psi)
- Rated flow 3/8" bspp 40 ltrs/min
- Rated flow 1/2" bspp 60 ltrs/min

MATERIAL SPECIFICATIONS BODY

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

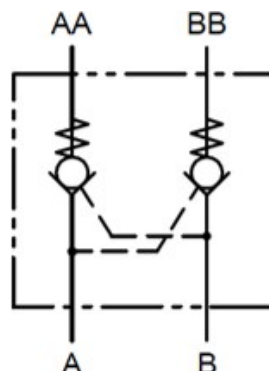
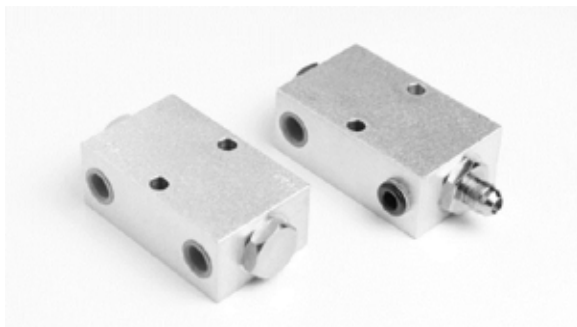
STANDARD FEATURES

- 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	\$342.00
08103824	OP80S-3/8" BSPP 24 VOLT DC	\$342.00
08101212	OP80S-1/2" BSPP 12 VOLT DC	\$410.00
08101224	OP80S-1/2" BSPP 24 VOLT DC	\$410.00



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

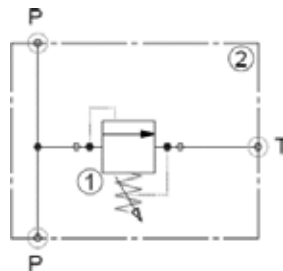
MATERIAL SPECIFICATIONS BODY

- Body.....High 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	\$282.00
OP101-C	10100600	Cylinder mounted with ¾" unf ports	\$282.00
OP101-I	10100200	In-Line with ½" BSPT ports	\$283.00
OP101-I	10100800	In-Line with ¾" unf ports	\$283.00



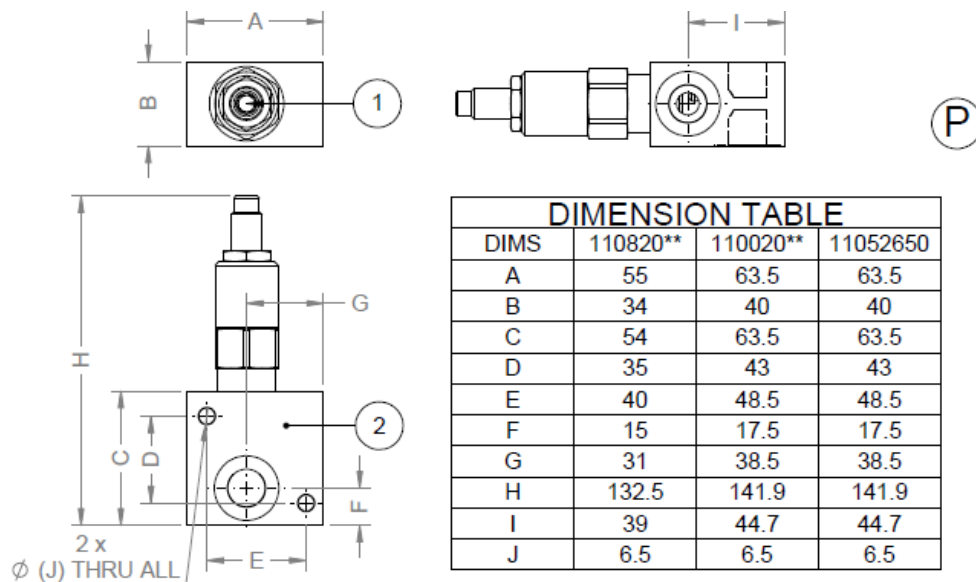
Oilpath OP110 through ported in-line relief valves are designed and manufactured in Australia utilising quality materials and HydraForce relief valve cartridges.

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

- Body.....High 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	\$232.00
11082009	RV08-20A-O-N-9	222121 (ALLOY)	100 - 1100	23 l/min	\$232.00
11082018	RV08-20A-O-N-18	222121 (ALLOY)	250 - 2300	23 l/min	\$232.00
11082033	RV08-20A-O-N-33	222121 (ALLOY)	250 - 3600	23 l/min	\$232.00
11002006	RV10-20A-O-N-6	222009 (ALLOY)	50 - 600	38 l/min	\$236.00
11002012	RV10-20A-O-N-12	222009 (ALLOY)	150 - 1200	38 l/min	\$236.00
11002023	RV10-20A-O-N-23	222009 (ALLOY)	250 - 2300	38 l/min	\$236.00
11002033	RV10-20A-O-N-33	222009 (ALLOY)	250 - 3300	38 l/min	\$236.00
11002604	RV10-26A-O-N-4	222009 (ALLOY)	100 - 400	113 l/min	\$250.00
11002615	RV10-26A-O-N-15	222009 (ALLOY)	150 - 1500	113 l/min	\$250.00
11002630	RV10-26A-O-N-30	222009 (ALLOY)	400 - 3000	113 l/min	\$250.00
11052650	RV50-26A-O-P-50	222509 (STEEL)	400 - 5000	113 l/min	\$315.00

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-0-N-35/25 WITH ALLOY 222122 1"BSPP - \$438



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

- Body.....High 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	\$106.00
OP111-A-C	111005	Single Cetop 3 cast iron as above but for 350 bar	\$143.00
OP111-B	111003	Single Cetop 3 alloy sub-plate, rear ported 3/8" BSPP	\$151.00
OP111-B-C	111006	As above but produced in cast iron for 350 bar rating.	\$228.00
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	\$523.00

Product Type	Part Number	Description Cetop 5 Products	List Price
OP1115-A	111501	Single Cetop 5 alloy sub-plate, side ported 1/2"BSPP	\$165.00
OP1115-A- C	111502	Single Cetop 5 Steel as above but for 350 bar	\$206.00
OP1115-B	111503	Single Cetop 5 alloy sub-plate, rear ported 1/2" BSPP	\$165.00
OP1115-B-C	111504	As above but produced in steel for 350 bar rating.	\$206.00



VALVCO is an Oilpath owned company established to handle product developed in partnerships with other like-minded companies.

The Valvco Cetop 3 Valves are an economical product with high quality cast iron bodies and hardened spool components

Model Number	Description	Max Pressure	Max Tank line back pressure	Maximum Flow lpm	List Price
WE-2B3-02G-D2-3035	2 Way	315bar (4500 psi)	210bar (3000 psi)	80 (21 GPM)	\$166.00
WE-2B3B-02G-D2-3035	2 Way				\$166.00
WE-2B3-02G-D1-3035	2 Way				\$166.00
WE-2B3B-02G-D1-3035	2 Way				\$166.00
WE-3C2-02G-D2-3035	3 Way				\$232.00
WE-3C3-02G-D2-3035	3 Way				\$232.00
WE-3C4-02G-D2-3035	3 Way				\$232.00
WE-3C6-02G-D2-3035	3 Way				\$232.00
WE-3C2-02G-D1-3035	3 Way				\$232.00
WE-3C3-02G-D1-3035	3 Way				\$232.00
WE-3C4-02G-D1-3035	3 Way				\$232.00
WE-3C6-02G-D1-3035	3 Way				\$232.00
Fluid Type			ISO VG 32, 46, 68		
Viscosity			10-400 (59-1854-SSU)		
Operating Temperature			MINUS 15 TO +70C (-5-158 F)		
Contamination Level			ISO4406 21/19/16 NAS1638. 10		
Surface Treatment			Zinc phosphate Compound		

How to order:

1	2	3	4	5	6	7
WE	***	02	G	**	**	30

1 VALVE SERIES

5 TYPE OF COIL D1 =12 VOLT D2= 24 VOLT

2 SPOOL TYPE (NEXT PAGE)

6 ADJUSTING WAY (NONE)

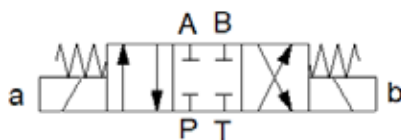
3 SUBPLATE MOUNTING SIZE (02 = 6mm)

7 WIRING TYPE (WIRING BOX TYPE)

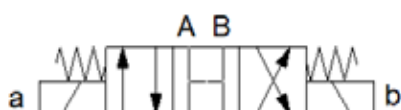
4 CONNECTION TYPE (BASEPLATE)

Cetop 3 Spools

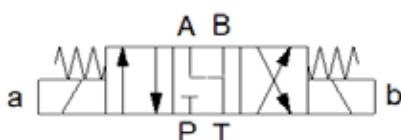
WE-3C2



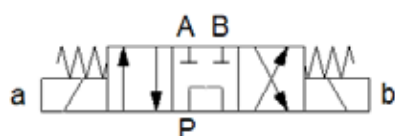
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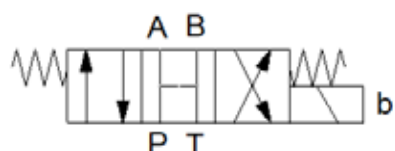
WE-3C4



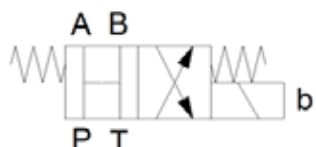
WE-3C6

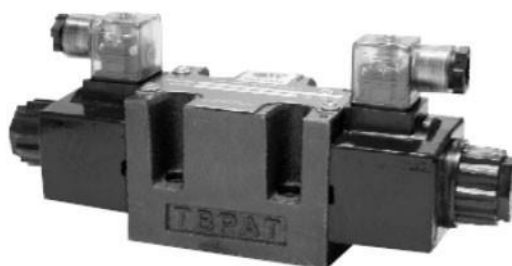


WE-2B3



2B3B





VALVCO is an Oilpath owned company established to handle product developed in partnerships with other like-minded companies.

The Valvco Cetop 5 Valves are an economical product with high quality cast iron bodies and hardened spool components

Model Number	Description	Max Pressure	Max Tank line back pressure	Maximum Flow lpm	List Price
WE-2B3-03G-D1-3035	2 Way	315bar (4500 psi)	160bar (2320 psi)	120 (32 GPM)	\$342.00
WE-2B3-03G-D2-3035	2 Way				\$342.00
WE-2B3B-03G-D1-3035	2 Way				\$342.00
WE-2B3B-03G-D2-3035	2 Way				\$342.00
WE-3C2-03G-D1-3035	3 Way				\$397.00
WE-3C2-03G-D2-3035	3 Way				\$397.00
WE-3C3-03G-D1-3035	3 Way				\$397.00
WE-3C3-03G-D2-3035	3 Way				\$397.00
WE-3C4-03G-D1-3035	3 Way				\$397.00
WE-3C4-03G-D2-3035	3 Way				\$397.00
WE-3C6-03G-D1-3035	3 Way				\$397.00
WE-3C6-03G-D2-3035	3 Way				\$397.00
Fluid Type			ISO VG 32, 46, 68		
Viscosity			10-400 (59-1854-SSU)		
Operating Temperature			MINUS 15 TO +70C (-5-158 F)		
Contamination Level			ISO4406 21/19/16 NAS1638. 10		
Surface Treatment			Zinc phosphate Compound		

How to order:
VC35

1	2	3	4	5	6	7
WE	***	03	G	**	**	30

1 VALVE SERIES

5 TYPE OF COIL D1 =12 VOLT D2= 24 VOLT

2 SPOOL TYPE (NEXT PAGE)

6 ADJUSTING WAY (NONE)

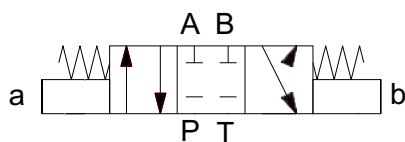
3 SUBPLATE MOUNTING SIZE (02 = 6mm)

7 WIRING TYPE (WIRING BOX TYPE)

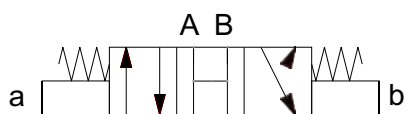
4 CONNECTION TYPE (BASEPLATE)

Cetop 5 Spools

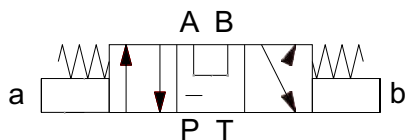
WE-3C2



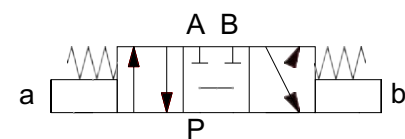
WE-3C3



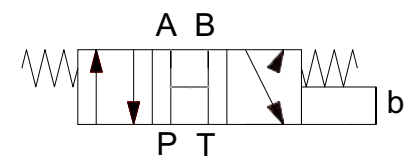
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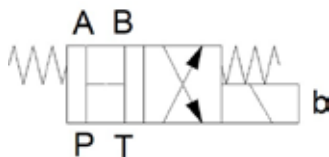
WE-3C6



WE-2B3




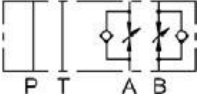



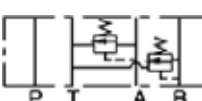



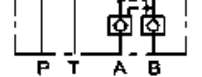
2B3B



CETOP 3 Modular Function Valves

These units mount between the directional valve and the sub-plates. The addition of these valves require longer bolt kits. Each valve block requires the addition of 40mm to the bolt length. Maximum inlet pressure 315 Bar.

* CETOP 3 used in illustrations below

		Part Number	Function	CETOP	List Price
			Throttle with check		
		MTC-02-W1-K-20	meter to cylinder on "a" & "b"	3	\$182.00
		MTC-03-W1-K-20	meter to cylinder on "a" & "b"	5	\$223.00
		Part Number	Function	CETOP	List Price
			Pressure Temperature compensated flow control		
		MOF-02-P-20	P Port only	3	\$275.00
		MOF-03-P-20	P Port only	5	\$497.00
		Part Number	Function	CETOP	List Price
			Modular Relief Valve 10-250 bar		
		MRV-02-W3-K-20	relief "a" "b"- t	3	\$257.00
		MRV-03-W3-K-20	relief "a" "b"- t	5	\$386.00
		Part Number	Function	CETOP	List Price
			Pressure Reducing Module		
		MBR-02-P3-K-20	Pressure Reducing Module	3	\$182.00
		MBR-03-P3-K-20	Pressure Reducing Module	5	\$270.00
 VC35		Part Number	Function	CETOP	List Price
			Pilot Operated Check Valve Module		
		MPC-02-W-20	Pilot operated checks on "a" & "b"	3	\$182.00
		MPC-03-W-20	Pilot operated checks on "a" & "b"	5	\$223.00



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**

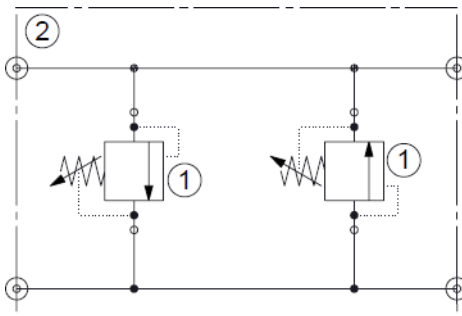
Product Type	Part Number	Description Cetop 5 Products	List Price
OP112-1	112001	Single Station	\$156.00
OP112-2	112002	Two Station	\$193.00
OP112-3	112003	Three Station	\$253.00
OP112-4	112004	Four Station	\$315.00
OP112-5	112005	Five Station	\$386.00
OP112-6	112006	Six Station	\$447.00

**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 Cetop 5 Products	List Price
OP112-2-S	112072	Two Station in series	\$227.00
OP112-3-S	112073	Three Station in series	\$283.00
OP112-4-S	112074	Four Station in series	\$333.00
OP112-5-S	112075	Five Station in series	\$407.00
OP112-6-S	112076	Six Station in series	\$470.00

**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 Cetop 5 Products	List Price
OPS114-1	114001	Single Station	\$240.00
OPS114-2	114002	Double Station	\$385.00
OPS114-3	114003	Three Station	\$507.00
OPS114-4	114004	Four Station	\$631.00
OPS114-5	114005	Five Station	\$808.00
OPS114-6	114006	Six Station	\$920.00
		Cartridge Valves for all Manifolds	
		RV10-26A-0-N-30 HydraForce Relief Valve	\$192.00
		SVRV10-26-0-N-* Solenoid Relief / Unloader	\$499.00



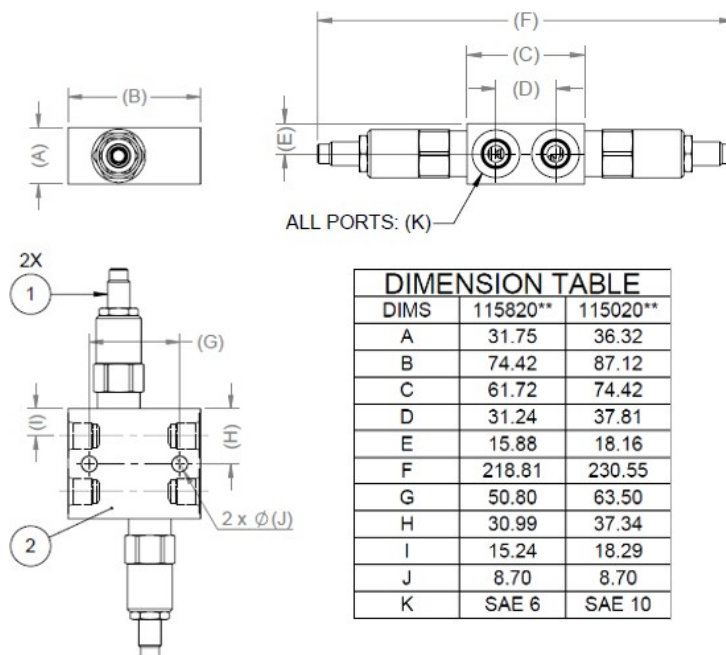
Oilpath OP115 cross line relief valves are designed and manufactured in Australia utilising quality materials and HydraForce relief valve cartridges.

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

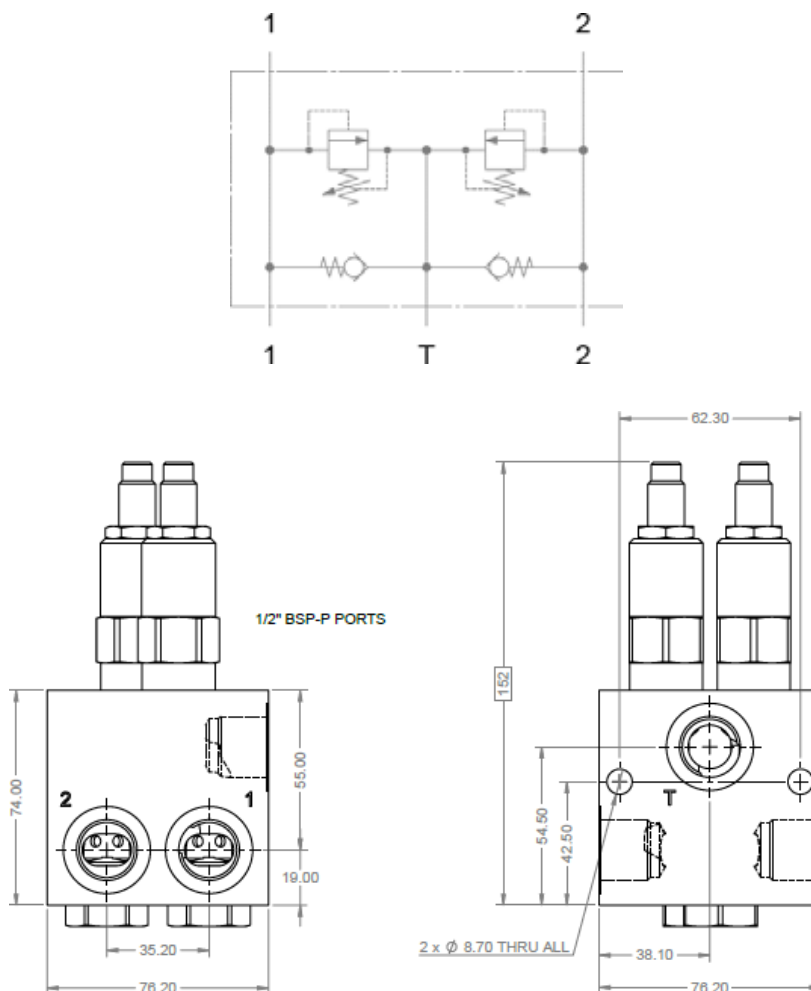
- Body.....High tensile aluminium
- Components HydraForce Relief Valve Cartridges
- Seals..... See Chart



PART No.	CARTRIDGE	LINE BODY PART NO.	PRESSURE RANGE (PSI)	NOMINAL FLOW	List Price
11582005	RV08-20A-O-N-5	7070160 (ALLOY)	50 - 500	23 l/min	\$283.00
11582009	RV08-20A-O-N-9	7070160 (ALLOY)	100 - 1100	23 l/min	\$283.00
11582018	RV08-20A-O-N-18	7070160 (ALLOY)	250 - 2300	23 l/min	\$283.00
11582033	RV08-20A-O-N-33	7070160 (ALLOY)	250 - 3600	23 l/min	\$283.00
11502006	RV10-20A-O-N-6	7070170 (ALLOY)	50 - 600	38 l/min	\$323.00
11502012	RV10-20A-O-N-12	7070170 (ALLOY)	150 - 1200	38 l/min	\$323.00
11502023	RV10-20A-O-N-23	7070170 (ALLOY)	250 - 2300	38 l/min	\$323.00
11502033	RV10-20A-O-N-33	7070170 (ALLOY)	250 - 3300	38 l/min	\$323.00
11502604	RV10-26A-O-N-4	7070170 (ALLOY)	100 - 400	113 l/min	\$350.00
11502615	RV10-26A-O-N-15	7070170 (ALLOY)	150 - 1500	113 l/min	\$350.00
11502630	RV10-26A-O-N-30	7070170 (ALLOY)	400 - 3000	113 l/min	\$350.00

FOR CARTRIDGE PERFORMANCE DATA,
SEE HYDRAFORCE WEBSITE: [HYDRAFORCE.COM](https://www.hydraforce.com)

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 sizes1/2" bspp
- CartridgesHydraForce

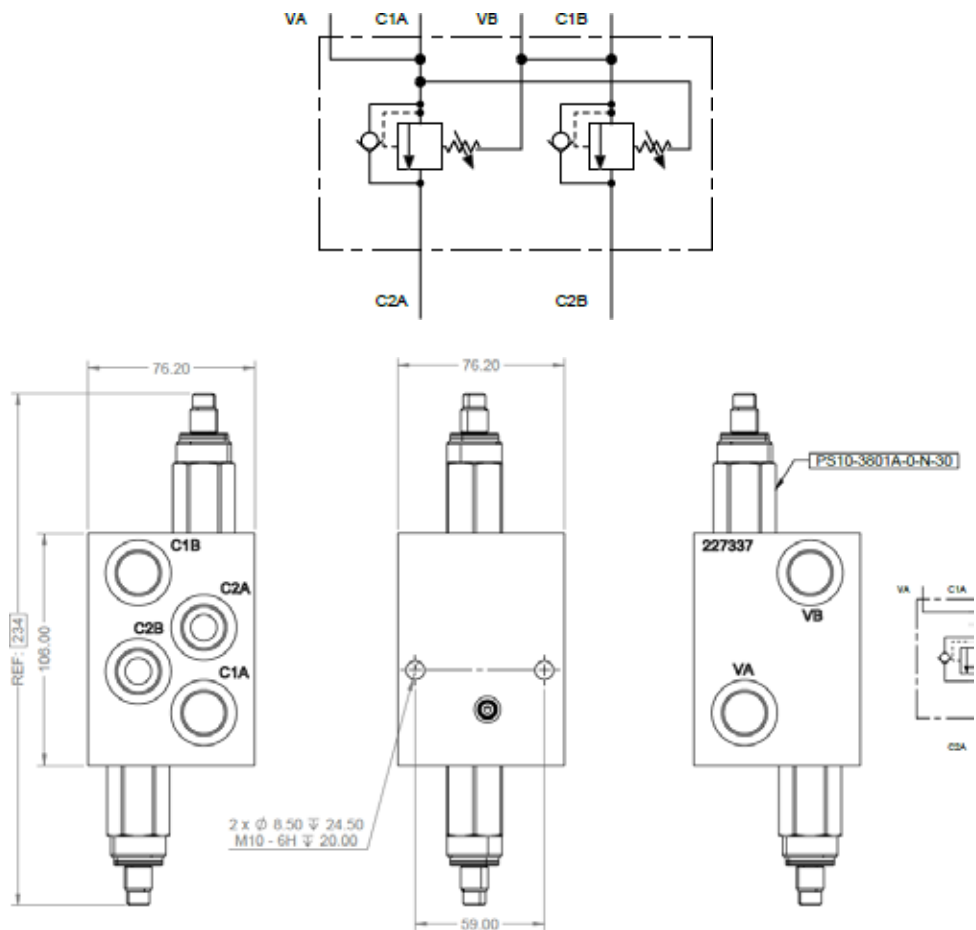
MATERIAL SPECIFICATIONS BODY

- Body.....High tensile aluminium

PART No.	Description	List Price
12900001	Oilpath 100 lpm Cross Line Relief with Anti-Cavitation Checks	\$718.00

* Contact factory for alternative sizing and options

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 sizes1/2" bspp
- CartridgesHydraForce

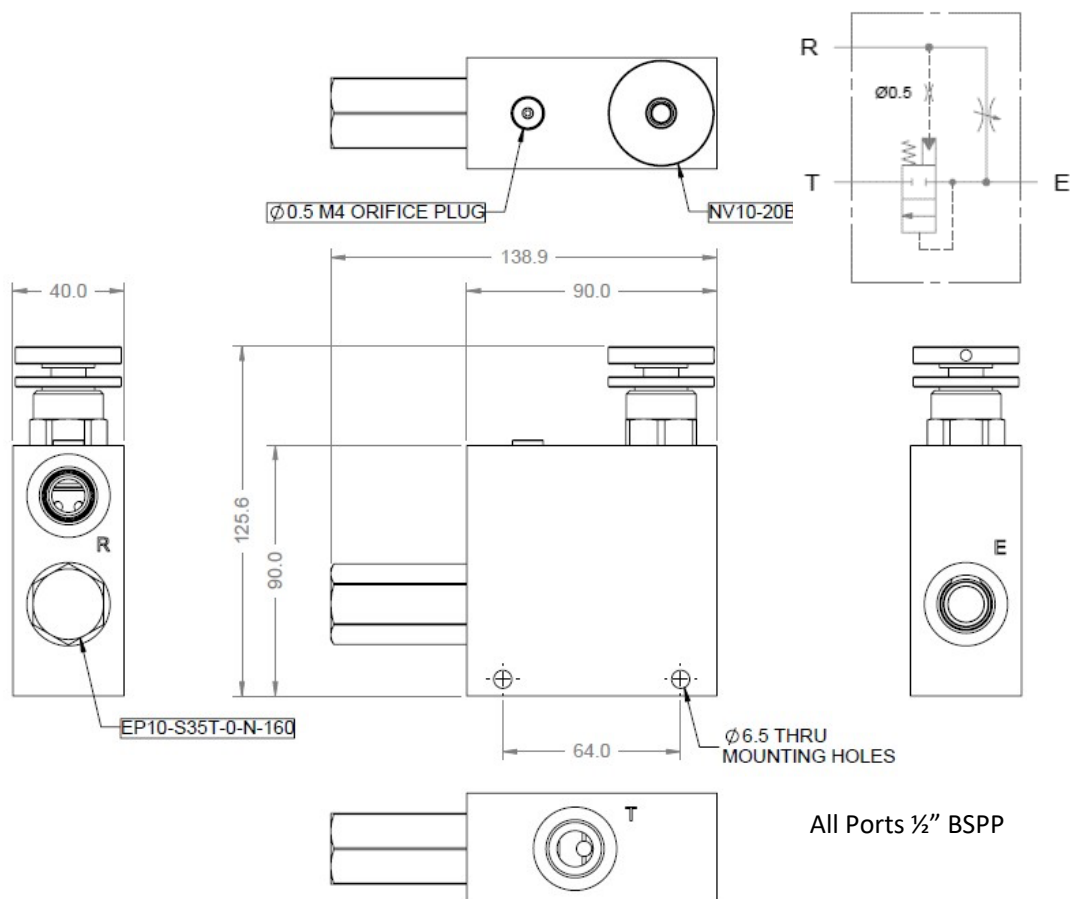
MATERIAL SPECIFICATIONS BODY

- Body.....High tensile aluminium

PART No.	Description	List Price
15600001	Oilpath 100 lpm Double Sequence Valve including reverse flow check valves	\$747.00

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

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

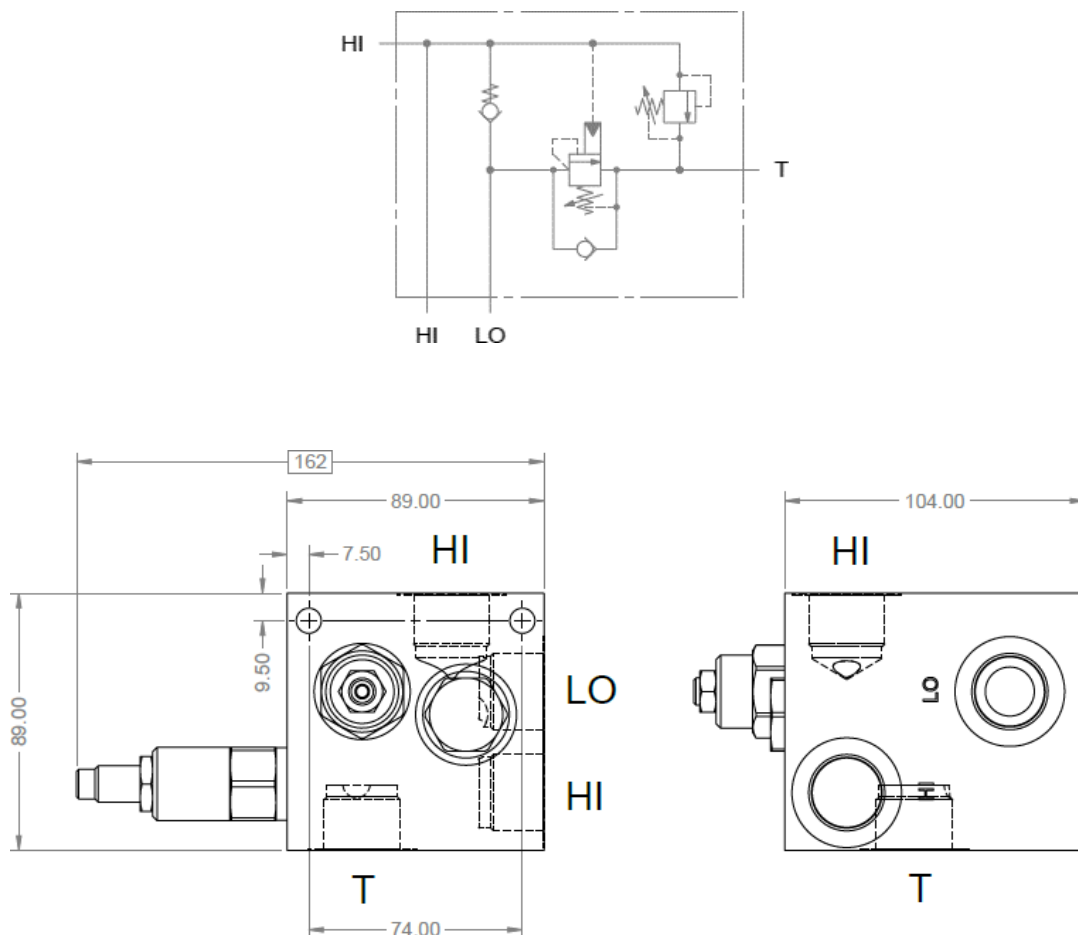
MATERIAL SPECIFICATIONS BODY

- Body.....High tensile aluminium

PART No.	Description	List Price
15700001	3-way pressure compensated flow regulator	\$431.00

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

Oilpath 120 lpm Hi-Low Pump System Manifold with ¾" 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

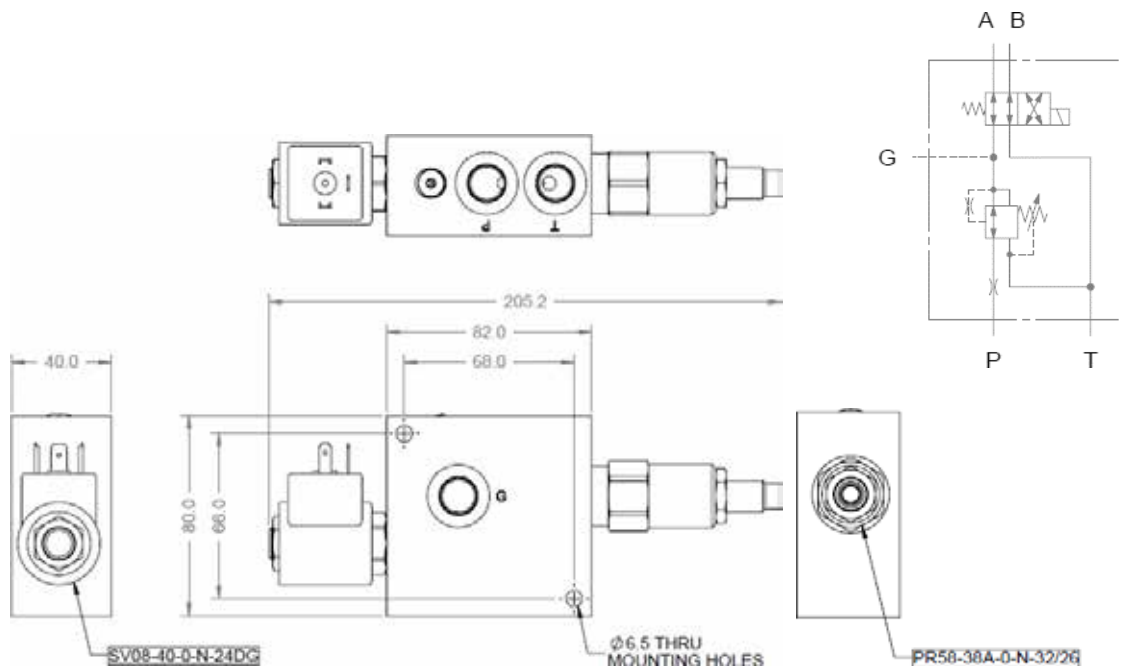
MATERIAL SPECIFICATIONS BODY

- Body.....High tensile aluminium

PART No.	Description	List Price
12800001	Oilpath 120 lpm Hi-Low Pump System Manifold with ¾" bspp ports	\$833.00

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

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

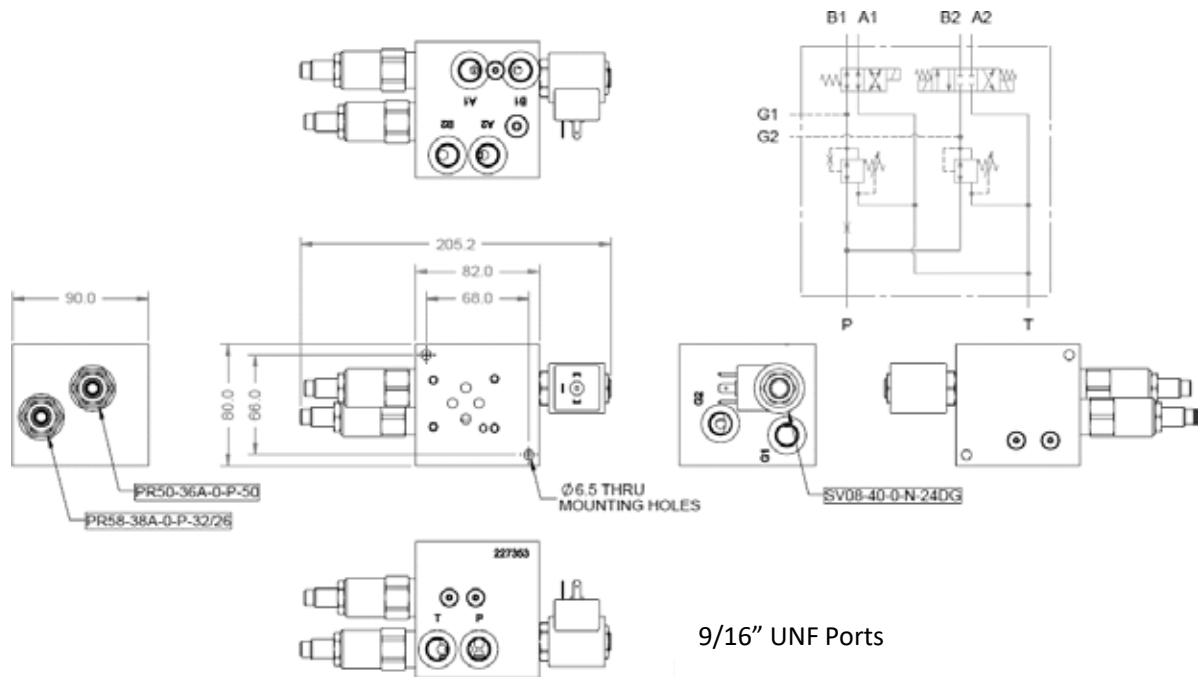
MATERIAL SPECIFICATIONS BODY

- Body..... Ductile Iron

PART No.	Description	List Price
13710012	OP137 Quick Hitch Valve 12 volt	\$744.00
13710024	OP137 Quick Hitch Valve 24 volt	\$744.00

*** 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

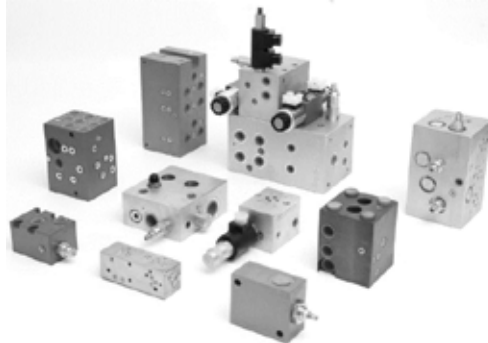
MATERIAL SPECIFICATIONS BODY

- Body.....Ductile Iron

PART No.	Description	List Price
14000012	OP140 Quick Hitch & Tilt Valve 12 volt. (does not include Cetop 3 valve)	\$1,251.00
14000024	OP140 Quick Hitch & Tilt Valve 24 volt. (does not include Cetop 3 valve)	\$1,251.00

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

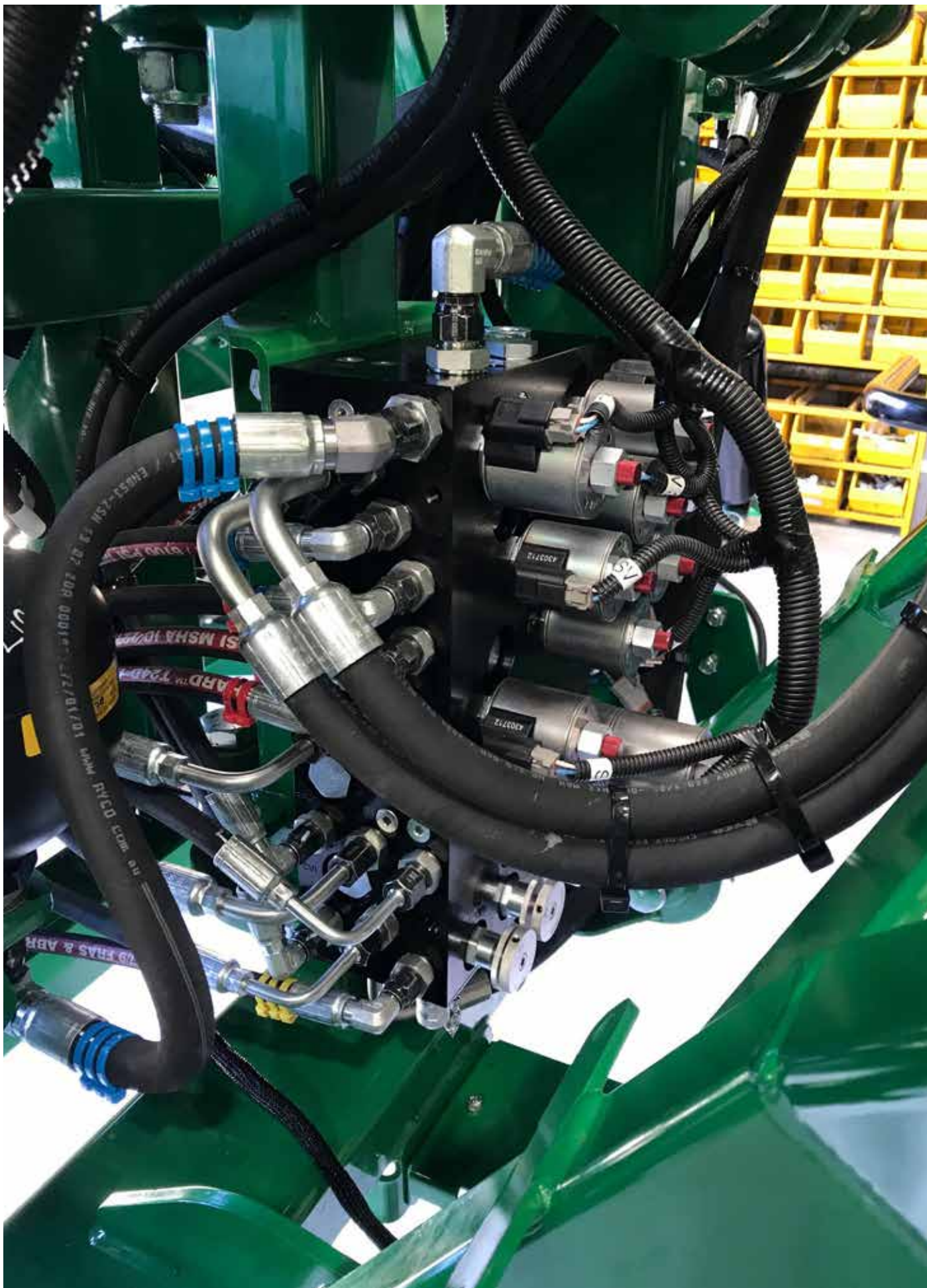
Please contact Oilpath to discuss your manifold requirements with our award winning engineers

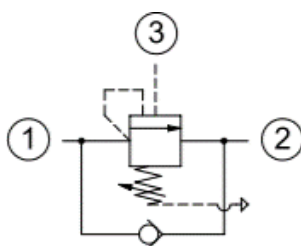


At Oilpath we believe that better performance comes from working together, and our engineers and field representatives will work with you to design your hydraulic control system. We understand that optimizing the performance of your machine starts with creative hydraulic integrated circuits, and when 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 inmarket
- Superior pressure drop performance
- T11A GT Series suitable for 75 lpm with 26 bar pressure drop
- Valves designed & manufactured by a pure Load HoldingCompany
- T11A cartridges manufacture with smaller inscribed hexagon heads(19mm)

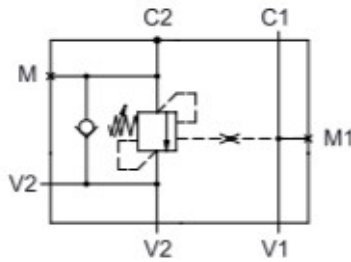
Other Counterbalance Products Available

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.

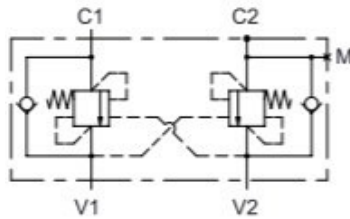
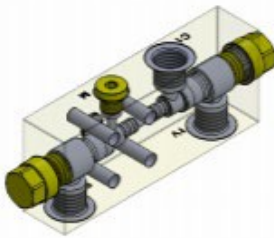
PART No.	Counterbalance Cartridge Description	List Price
C000D240021100A (CBCL-LJN)	LOAD CONTROL T11A 60 L/MIN 2:1 2000-5000PSI	\$190.00
C040M210031100A	LOAD CONTROL T11A 30 L/MIN 3:1 1000-4000PSI	\$190.00
C000M140031100A (CBCA-LHN)	LOAD CONTROL T11A 60 L/MIN 3:1 1000-3000 PSI	\$190.00
C200M110031100A	LOAD CONTROL T11A 75 L/MIN 3:1 1000-2200PSI	\$205.00
C000D210040200A (CBEA-LHN)	LOAD CONTROL T2A 120 L/MIN 4:1 2000-5000PSI	\$279.00
C000T130051100A (CBCG-LKN)	LOAD CONTROL T11A 60 L/MIN 5:1 700-3000 PSI	\$190.00
C000D285051100A (CBCG-LJN)	LOAD CONTROL T11A 60 L/MIN 5:1 3045-5200PSI	\$190.00
C000D310101100A (CBCH-LJN)	LOAD CONTROL T11A 60 L/MIN 10:1 2000-5000PSI	\$190.00



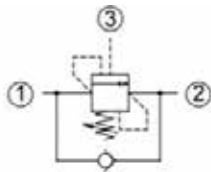
PART No.	Counterbalance Cartridge Description	List Price
SNS79L04G14D000	SINGLE C/BAL 4:1 350 BAR 1/4" BSPP	\$196.00
SNS31L04G38D000	SINGLE C/BAL 4:1 350 BAR 3/8" BSPP	\$204.00
SND79L04G14D000	DUAL C/BAL 4:1 350 BAR 1/4" BSPP	\$303.00
SND31L04G38D000	DUAL C/BAL 4:1 350 BAR 3/8" BSPP	\$329.00
SND31L04G12D000	DUAL C/BAL 4:1 350 BAR 1/2" BSPP	\$350.00
C000T130051100A (CBCG-LKN)	LOAD CONTROL T11A 60 L/MIN 5:1 700-3000 PSI	\$190.00
C000D285051100A (CBCG-LJN)	LOAD CONTROL T11A 60 L/MIN 5:1 3045-5200PSI	\$190.00
C000D310101100A (CBCH-LJN)	LOAD CONTROL T11A 60 L/MIN 10:1 2000-5000PSI	\$190.00
PJ17073	DUAL C/BAL 4:1 350 BAR - END C1,C2. PORTS ADJACENT TO CARTRIDGES FOR CONVENIENT CYLINDER MOUNTING 1/2" BSPP	\$417.00



Typical Single Counterbalance Parts-in-body.



Typical Double Counterbalance Parts-in-body.



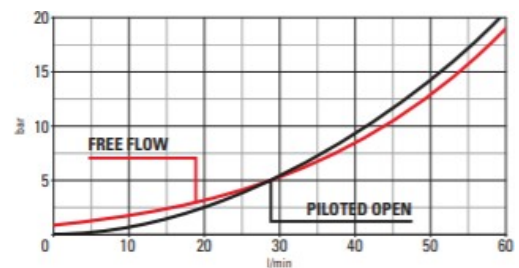
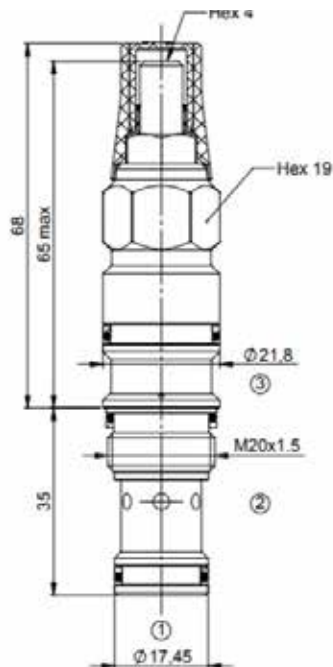
Typical Valvole Counterbalance Cartridge Example

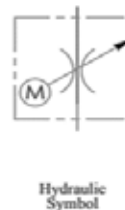
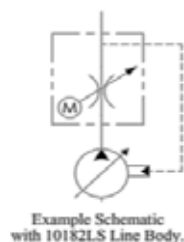
C000M140031100A

(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.

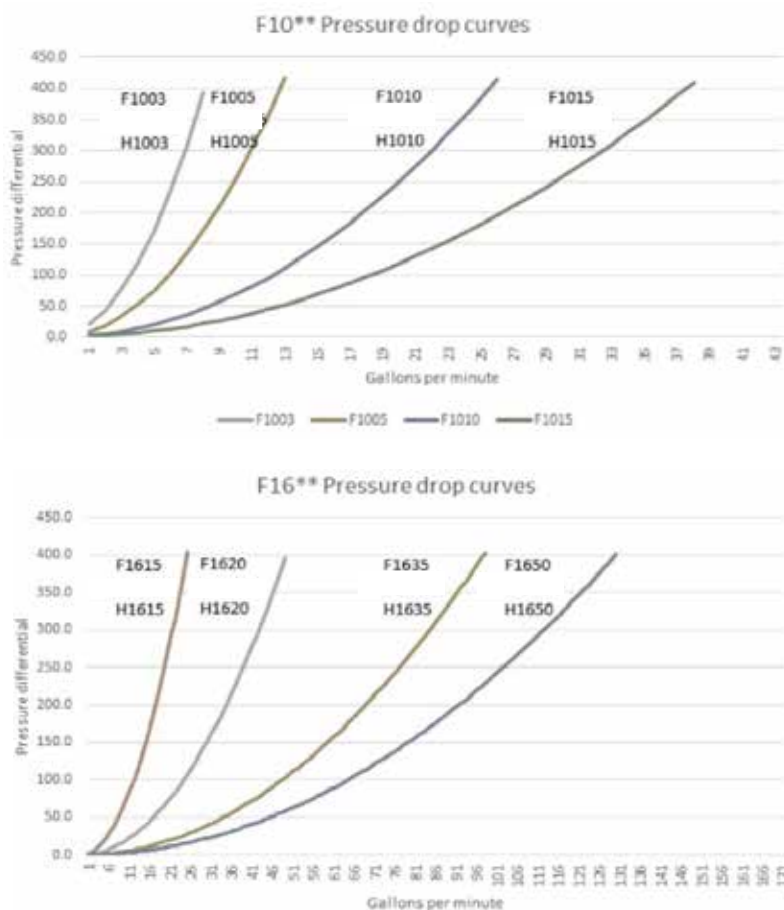
There may be a small variance from valve to valve due to tolerances in each valve. The pressure drop curves represent theoretical calculations and should only be used as a general guideline when sizing a motorized flow control.

Motorized flow control sizing example:

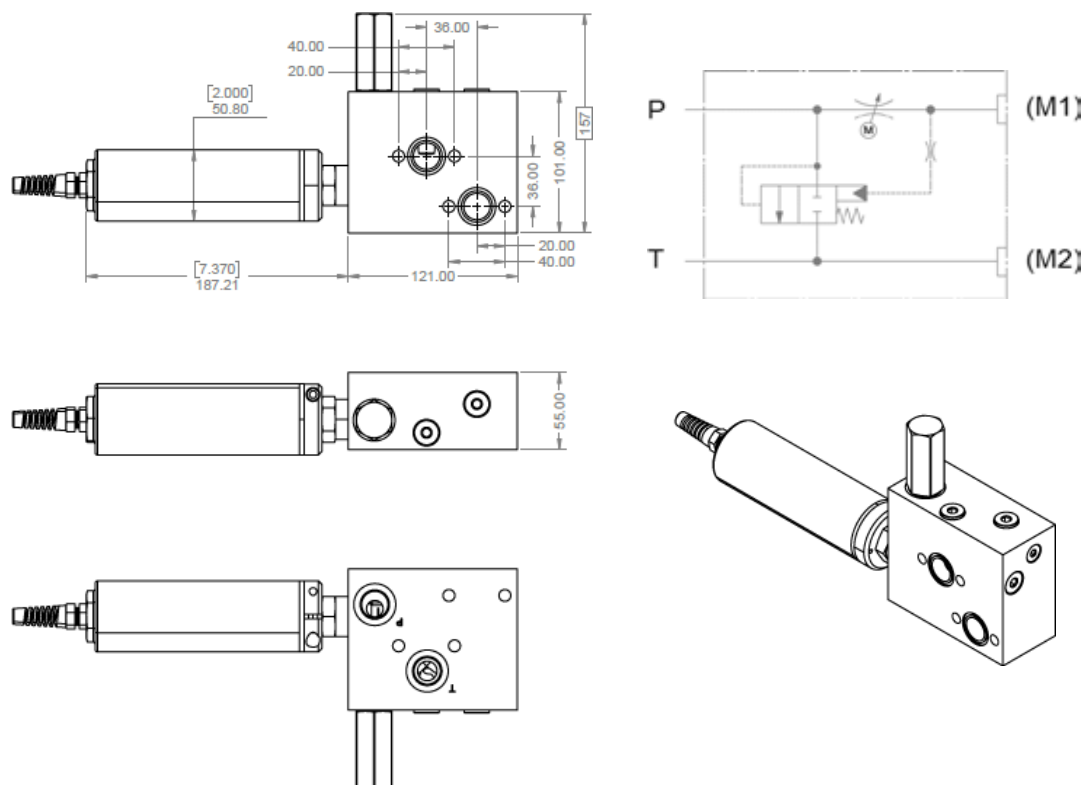
In a circuit that is using a 100 psi compensator and one of our F1010 size valves, the expected maximum flow would be about 12GPM.

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.



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

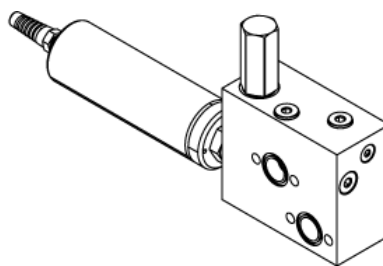
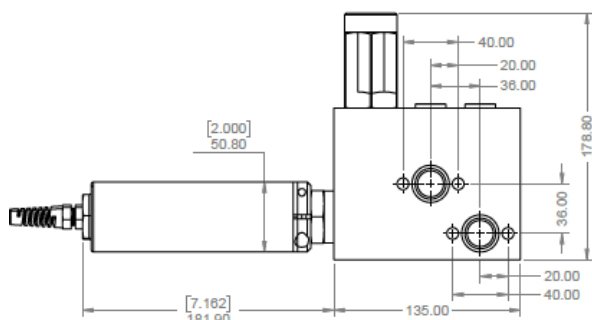
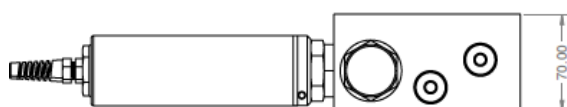
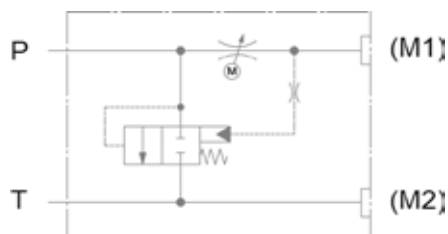
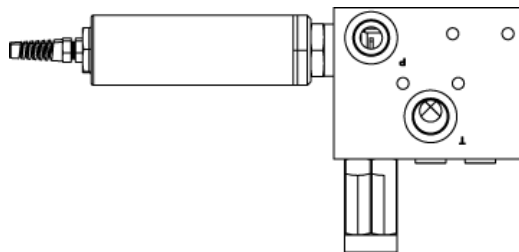
MATERIAL SPECIFICATIONS BODY

- Body.....High tensile aluminium

PART No.	Description	List Price
70000012	60 lpm Pressure Compensated Motorised Flow Control. 7 second timing 12 volt	\$2,262.00
13710024	60 lpm Pressure Compensated Motorised Flow Control. 7 second timing 24 volt	\$2,262.00

*** Contact factory for alternative sizing and flow control timing**

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 Adjustment0-120 lpm
- Flow control open to close timing 7 seconds
- Port sizes 3/4"bspp

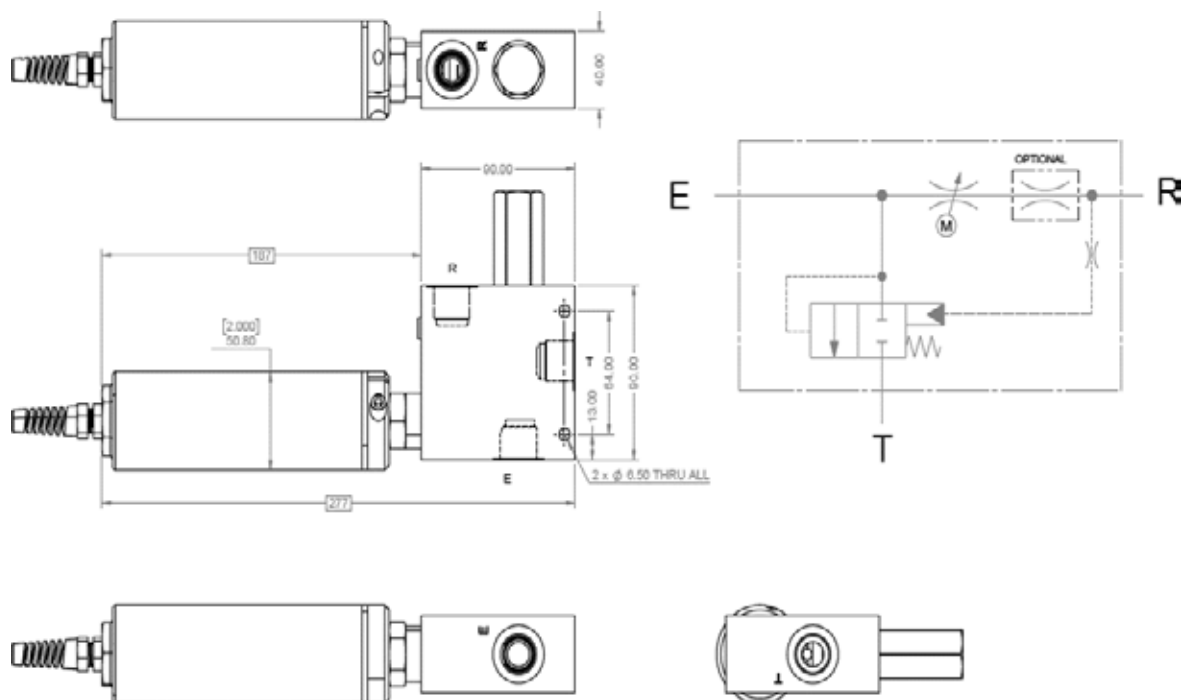
MATERIAL SPECIFICATIONS BODY

- Body.....High tensile aluminium

PART No.	Description	List Price
70100012	120 lpm Pressure Compensated Motorised Flow Control. 7 second timing 12 volt	\$2,452.00
70100024	120 lpm Pressure Compensated Motorised Flow Control. 7 second timing 24 volt	\$2,452.00

*** 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 time7 seconds
- Port sizes 1/2"bspp

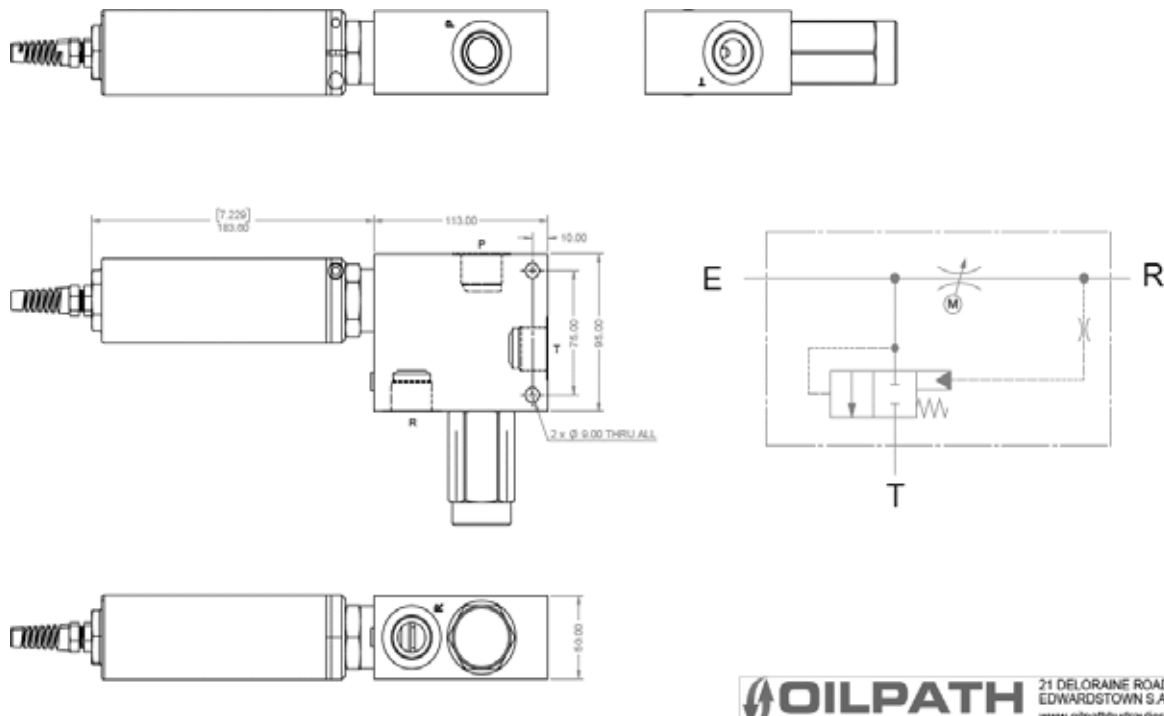
MATERIAL SPECIFICATIONS BODY

- Body.....High 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	\$2,111.00
72000024	60 lpm Pressure Compensated Motorised Flow Control. Regulated flow 0-50 lpm 7 second timing 24 volt	\$2,111.00

*** 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.



OILPATH 21 DELORAIN ROAD
EDWARDSTOWN S.A.
08 8277 4933

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

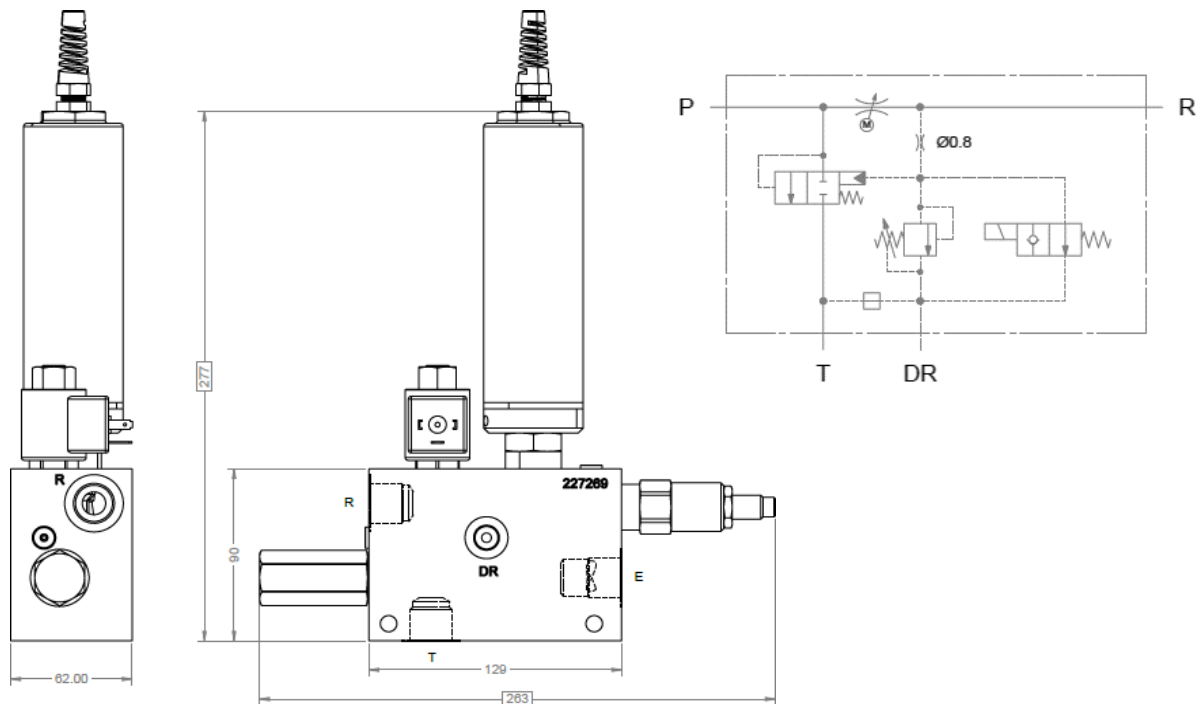
MATERIAL SPECIFICATIONS BODY

- Body..... High 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	\$2,302.00
72100024	120 lpm Pressure Compensated Motorised Flow Control. Regulated flow 0-110 lpm 7 second timing 24 volt	\$2,302.00

*** 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 sizes1/2"bspp

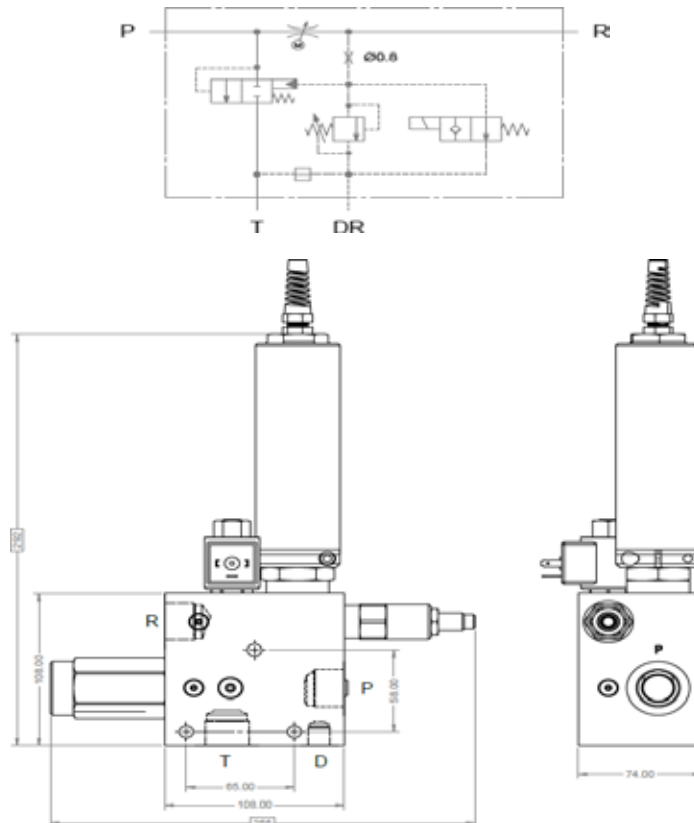
MATERIAL SPECIFICATIONS BODY

- Body.....High 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	\$2,590.00
72000024	60 lpm Motorised Flow Control with Pressure Compensation and unloader relief function. 7 second timing 24 volt	\$2,590.00

*** 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

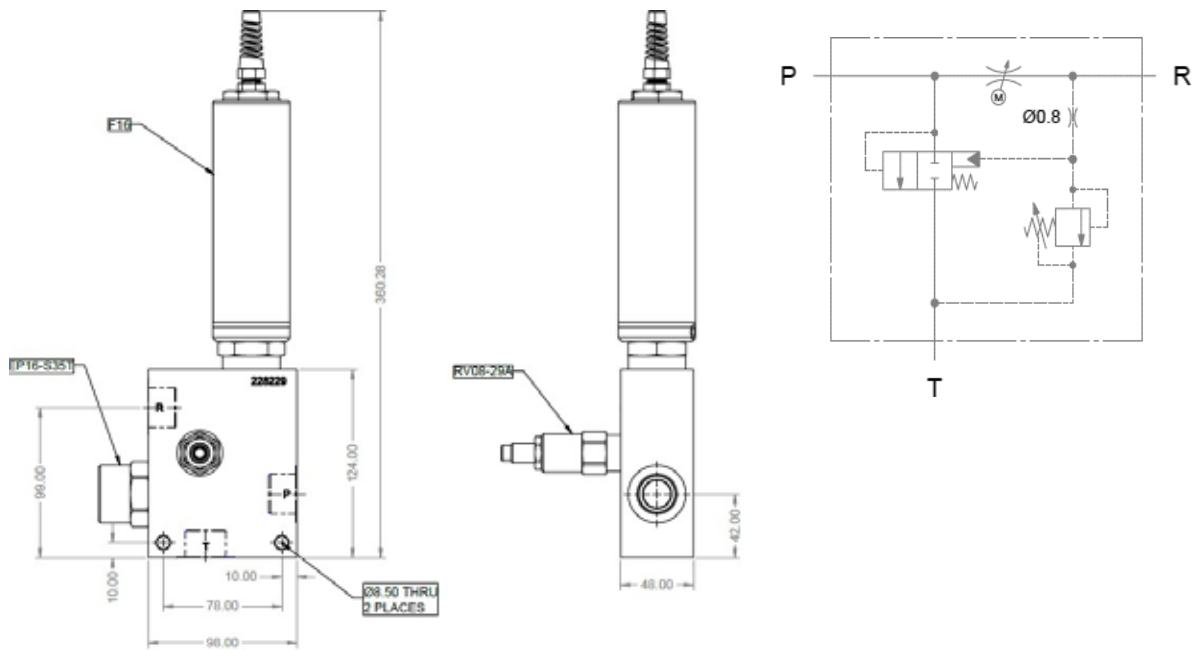
MATERIAL SPECIFICATIONS BODY

- Body.....High 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	\$2,766.00
72300024	120 lpm Motorised Flow Control with Pressure Compensation and unloader relief function, 7 second timing, 24 volt	\$2,766.00

*** Contact factory for alternative sizing and flow control timing**

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

- Body.....High tensile aluminium

PART No.	Description	List Price
72400012	120 lpm Motorised Flow Control with Priority and relief function, 7 second timing 12 volt	\$2,411.00
72400024	120 lpm Motorised Flow Control with Priority and relief function, 7 second timing 24 volt	\$2,411.00

*** Contact factory for alternative sizing and flow control timing**

