

CATFORD ENGINEERING PRODUCTS

Jamestown
SA 5491

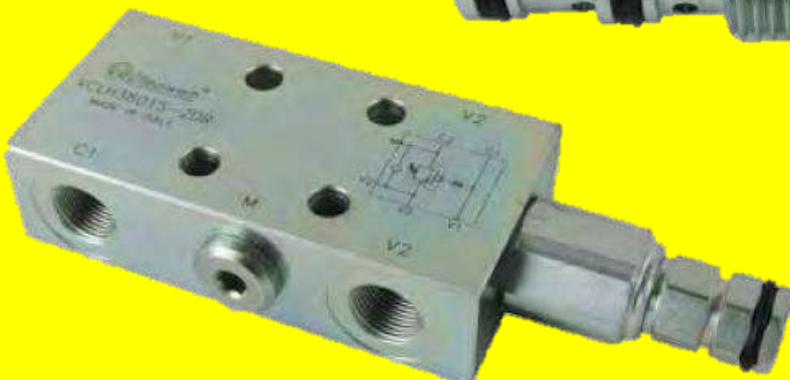
All Prices Excluding GST

Phone: 0418 641 566

www.catford.com.au sales@catford.com.au

Inline & Cartridge Valves

- *Counter Balance
- *Hose Burst
- *Check
- *Needle & Barrel Flow Controls
- *Dividers
- *Relief
- *Sequence
- *Cartridge
- *Unloading
- *Pressure Reducing
- *Rotating Couplings





Lot 25, Mannanarie Road, Jamestown, South Australia 5491



0418 641 566



sales@catford.com.au

Due to fluctuations in the Australian dollar and the economic climate, please be advised that all prices are subject to change.
Please contact us to confirm pricing.

All prices stated within are exclusive of GST
(All prices are correct as of January 1st 2022, but Catford Engineering reserve the right to change these prices without notice)

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Counter Balance Valves		70
Hose Burst Valves		74
Check Valves		75
Needle Flow Control Valves		77
Barrel Flow Control Valves		78
Pressure Compensated Flow Control Valves		79
Priority Flow Controls		79
Cartridge Flow Dividers		80
Cross Line Relief Valves		80
Unloading Valves		81
Inline Relief Valves		82
Pressure Reducing Valves		83
End Stroke Valves		83
Load Shuttle Ball Valves		84
Sequence Valves		84
Rotating Couplings		85
Cartridge Valves		86

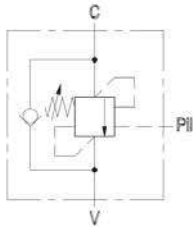
PREMIUM ITALIAN PRODUCT 



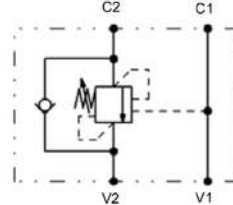
WARNING: Hydraulic cylinders without a hose burst valve, pilot operated check valve or counter balance valve directly mounted to the cylinder will not meet Australian Standard AS1418.8, nor occupational health & safety rules.

Single Counter Balance Valve

Part #	List Price \$	Ports	Pressure Range	Max Flow	Ratio	Material
CBSEP-0230	253.00	3/8" BSPP	100-350 bar	60 lpm	4.2:1	Steel
CBSEP-0330	268.00	1/2" BSPP	100-350 bar	60 lpm	4.2:1	Steel
CB40SL01	214.00	1/4" BSPP	100-350 bar	40 lpm	4:1	Aluminium



CBSEP

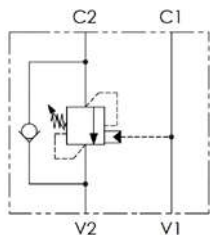


CB40

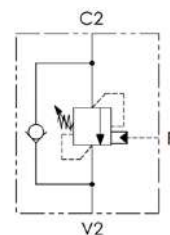
Single Counter Balance Valve, Open Centre

Part #	List Price \$	Ports	Pressure Range	Max Flow	Ratio	Material
VBCR1401S	188.00	1/4" BSPP	30-210 bar	30 lpm	4.25:1	Steel
VBCR1401S8	195.00	1/4" BSPP	30-210 bar	30 lpm	8.75:1	Steel
VBCL3801	164.00	3/8" BSPP	30-210 bar	40 lpm	4.25:1	Steel
VBCL3801S3	164.00	3/8" BSPP	30-210 bar	40 lpm	3:1	Steel
VBCL3801S8	164.00	3/8" BSPP	30-210 bar	40 lpm	8:1	Steel
VBCR3802S	188.00	3/8" BSPP	60-350 bar	40 lpm	4.25:1	Steel
VBCR3802S8	195.00	3/8" BSPP	60-350 bar	40 lpm	8.75:1	Steel
VBCL1201	195.00	1/2" BSPP	30-210 bar	60 lpm	4.25:1	Steel
VBCL1201S3	195.00	1/2" BSPP	30-210 bar	60 lpm	3:1	Steel
VBCL1201S8	195.00	1/2" BSPP	30-210 bar	60 lpm	8:1	Steel
VBCR1202S	197.00	1/2" BSPP	60-350 bar	60 lpm	4.25:1	Steel
VBCR1202S8	204.00	1/2" BSPP	60-350 bar	60 lpm	8.75:1	Steel
VBCL3402	304.00	3/4" BSPP	60-350 bar	120 lpm	6.2:1	Steel

Note: VBCL/VBCR series also available with 60-350 bar pressure range. Change part number 01 to 02 e.g. VBCL3801 > VBCL3802



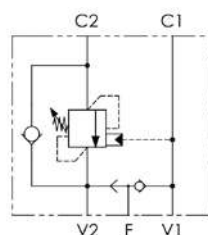
VBCL



VBCR

Single Counter Balance Valve, Open Centre, Brake Release

Part #	List Price \$	Ports	Pressure Range	Max Flow	Ratio	Material
VBFP3801S	254.00	3/8" BSPP	30-210 bar	40 lpm	4.25:1	Steel

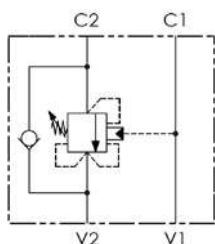


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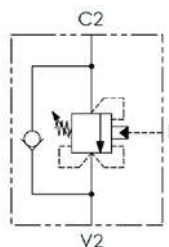


Single Counter Balance Valve, Closed Centre

Part #	List Price \$	Ports	Pressure Range	Max Flow	Ratio	Material
VCCR1401S	233.00	1/4" BSPP	30-210 bar	30 lpm	4.25:1	Steel
VCCR1401S8	240.00	1/4" BSPP	30-210 bar	30 lpm	8.75:1	Steel
VCCL3801	195.00	3/8" BSPP	30-210 bar	40 lpm	4.25:1	Steel
VCCR3801S	233.00	3/8" BSPP	30-210 bar	40 lpm	4.25:1	Steel
VCCR3801S8	240.00	3/8" BSPP	30-210 bar	40 lpm	8.75:1	Steel
VCCL1201	217.00	1/2" BSPP	30-210 bar	60 lpm	4.25:1	Steel
VCCR1201S	241.00	1/2" BSPP	30-210 bar	60 lpm	4.25:1	Steel
VCCR1201S8	248.00	1/2" BSPP	30-210 bar	60 lpm	8.75:1	Steel



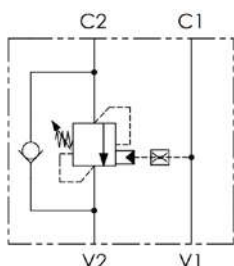
VCCL



VCCR

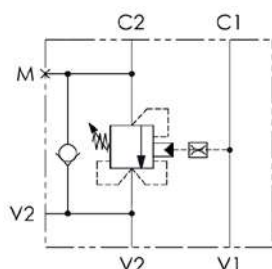
Single Counter Balance Valve, Banjo Bolt

Part #	List Price \$	Ports	Pressure Range	Max Flow	Ratio	Material
VBCB3801S	185.00	3/8" BSPP	30-210 bar	40 lpm	4.25:1	Steel
VBCB3802S	185.00	3/8" BSPP	60-350 bar	40 lpm	4.25:1	Steel



Single Counter Balance Valve, Manifold Mount

Part #	List Price \$	Ports	Pressure Range	Max Flow	Ratio	M Port	Material
VCLH38001S	243.00	3/8" BSPP	30-210 bar	40 lpm	4:1	1/4" BSPP	Steel

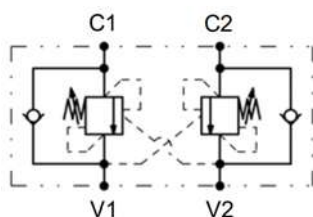


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Dual Counter Balance Valve

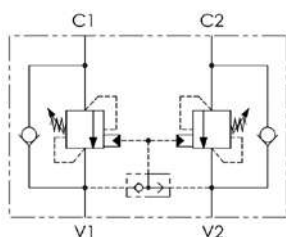
Part #	List Price \$	Ports	Pressure Range	Max Flow	Ratio	Material
CB40DL01	376.00	1/4" BSPP	50-350 bar	25 lpm	4:1	Aluminium



Dual Counter Balance Valve, Open Centre

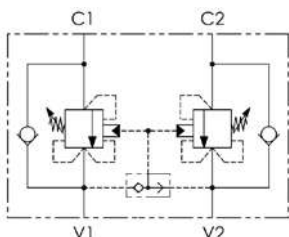
Part #	List Price \$	Ports	Pressure Range	Max Flow	Ratio	Material
VBCD3801	293.00	3/8" BSPP	30-210 bar	40 lpm	4.25:1	Steel
VBCD3801S3	293.00	3/8" BSPP	30-210 bar	40 lpm	3:1	Steel
VBCD3801S8	293.00	3/8" BSPP	30-210 bar	40 lpm	8:1	Steel
VBCD1201	315.00	1/2" BSPP	30-210 bar	60 lpm	4.25:1	Steel
VBCD1201S3	315.00	1/2" BSPP	30-210 bar	60 lpm	3:1	Steel
VBCD1201S8	315.00	1/2" BSPP	30-210 bar	60 lpm	8:1	Steel
VBCD3402	500.00	3/4" BSPP	30-210 bar	120 lpm	6.2:1	Steel

Note: VBCD series also available with 60-350 bar pressure range. Change part number 01 to 02 e.g. VBCD3801 > VBCD3802



Dual Counter Balance Valve, Closed Centre

Part #	List Price \$	Ports	Pressure Range	Max Flow	Ratio	Material
VBCC3801	315.00	3/8" BSPP	30-210 bar	40 lpm	4.25:1	Steel
VBCC3802	315.00	3/8" BSPP	60-350 bar	40 lpm	4.25:1	Steel
VBCC1201	326.00	1/2" BSPP	30-210 bar	60 lpm	4.25:1	Steel
VBCC1202	326.00	1/2" BSPP	60-350 bar	60 lpm	4.25:1	Steel

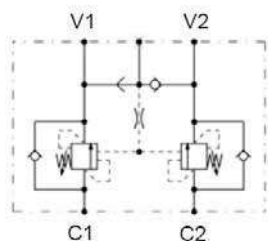


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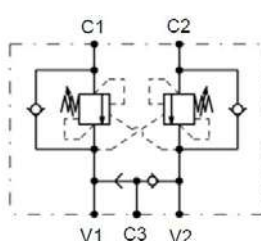


Dual Counter Balance Valve, Brake Release Shuttle

Part #	List Price \$	Ports	Pressure Range	Max Flow	Ratio	Material
CBDLIL03	573.00	1/2" BSPP	100-350 bar	80 lpm	4.2:1	Steel
CBDLSF02	392.00	3/8" BSPP	100-350 bar	60 lpm	4.2:1	Steel
CBDLSF03	473.00	1/2" BSPP	100-350 bar	60 lpm	4.2:1	Steel



CBDLIL

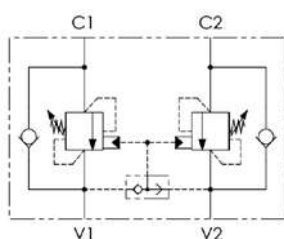


CBDLSF



Dual Counter Balance Valve, Manifold Mount

Part #	List Price \$	Ports	Pressure Range	Max Flow	Ratio	Material
VBCF1202	326.00	1/2" BSPP	60-350 bar	60 lpm	1:4.25	Steel



Hose Burst Valve Housing (see VUBA cartridges on following page)

Part #	List Price \$	Ports	Thread Type	Material
61100087	16.00	1/4" BSPP	Male/Female	Steel
61100088	16.00	3/8" BSPP	Male/Female	Steel
61100089	20.00	1/2" BSPP	Male/Female	Steel
61100090	27.00	3/4" BSPP	Male/Female	Steel
61100091	55.00	1" BSPP	Male/Female	Steel
61100092	16.00	1/4" BSPP	Female/Female	Steel
61100093	16.00	3/8" BSPP	Female/Female	Steel
61100094	20.00	1/2" BSPP	Female/Female	Steel
61100095	27.00	3/4" BSPP	Female/Female	Steel

Hose Burst Valve Installation Tool

Part #	List Price \$	Valve Type
61700001	56.00	VUBA140
61700002	56.00	VUBA380
61700003	56.00	VUBA120
61700004	56.00	VUBA340



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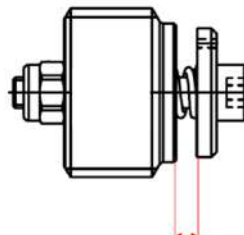
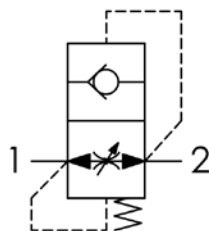


Hose Burst valves & adaptors are supplied unset. Set the clearance as per chart below:

Hose Burst Valve Cartridge

Part #	List Price \$	Thread	Max Pressure	Max Flow
VUBA140	31.00	1/4" BSPP	350 bar	25 lpm
VUBA380	33.00	3/8" BSPP	350 bar	50 lpm
VUBA120	38.00	1/2" BSPP	350 bar	80 lpm
VUBA340	43.00	3/4" BSPP	350 bar	150 lpm
VUBA100	49.00	1" BSPP	350 bar	180 lpm

Contact us for details of installation tools.



Set Clearance



Part #	CLEARANCE SETTING (mm)																					
	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
VUBA140	FLOW (lpm)	0	3	6	9.3	12.7	16	17	18	19.2	20.3	21.5	22.3	23	23.7	24.3	25	25.4	26	26.3	26.7	27
VUBA380		0	3	6	10	14	18	20.5	23	25	27	29	30	31	32.3	33.7	35	36.4	37	38.7	40.3	42
VUBA120		0	4	8	12.7	17.3	22	26.5	31	34	37	40	42.5	45	47.7	50.3	53	55.8	58.6	61.4	64.2	67
VUBA340		0	9	18	25.3	32.7	40	48.5	57	61.7	66.3	71	77	83	88.7	94.3	100	106	111	116	120	124
VUBA100		0	3.5	7	12.0	17	22	27.5	33	39	45	51	53.5	56	60.7	65.3	70	72.4	74.8	77.2	79.6	82

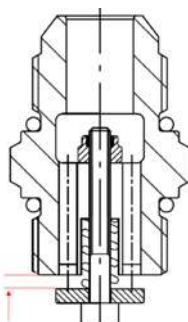
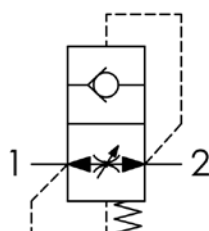
Hose Burst Adaptor

Part #	List Price \$	Ports	Max Pressure	Max Flow
VUBASAE8	55.00	3/4" UNO - 3/4" JICM	315 bar	50 lpm

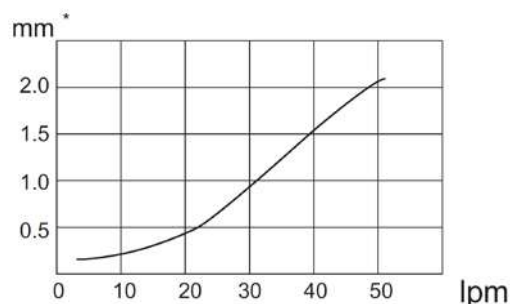


Hose Burst valves & adaptors supplied unset. Set clearance as per chart below:

Contact us for details or technical advice.



Set Clearance

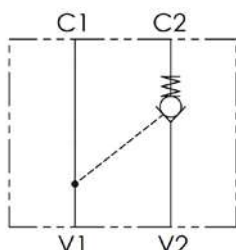


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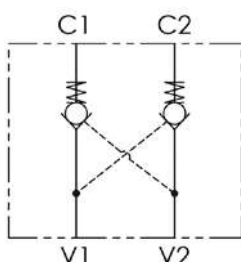
Single Inline Pilot Check Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure	Pilot Ratio	Material
VRSE140	119.00	1/4" BSPP	15 lpm	320 bar	1:4	Steel
VRSE380	119.00	3/8" BSPP	35 lpm	320 bar	1:4	Steel
VRSE120	148.00	1/2" BSPP	45 lpm	320 bar	1:4	Steel
VRSE340	212.00	3/4" BSPP	70 lpm	320 bar	1:2.9	Steel



Dual Inline Pilot Check Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure	Pilot Ratio	Material
VRDE140	119.00	1/4" BSPP	15 lpm	320 bar	1:4	Steel
VRDE380	119.00	3/8" BSPP	35 lpm	320 bar	1:4	Steel
VRDE120	164.00	1/2" BSPP	45 lpm	320 bar	1:4	Steel
VRDE340	246.00	3/4" BSPP	70 lpm	320 bar	1:2.9	Steel



Single Inline Pilot Check Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure	Pilot Ratio	Material
VRPE140	119.00	1/4" BSPP	25 lpm	350 bar	1:5.3	Steel
VRPE380	141.00	3/8" BSPP	40 lpm	350 bar	1:4.4	Steel
VRPE120	151.00	1/2" BSPP	60 lpm	350 bar	1:4.2	Steel
VRPE340	255.00	3/4" BSPP	100 lpm	300 bar	1:4	Steel
VRPE100	321.00	1" BSPP	150 lpm	300 bar	1:4.1	Steel

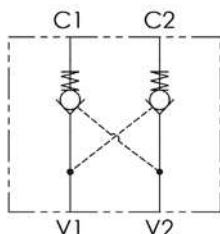


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Dual Line-Mount Pilot Check Valve

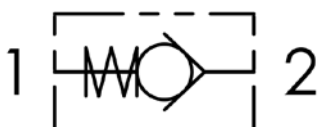
Part #	List Price \$	Ports	Max Flow	Max Pressure	Pilot Ratio	Material
VRDL380	239.00	3/8" BSPP	35 lpm	350 bar	1:7	Steel
VRCL120	272.00	1/2" BSPP	50 lpm	350 bar	1:7	Steel



Inline Check Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure	Pilot Ratio	Material
VUR180	40.00	1/8" BSPP	5 lpm	400 bar	0.5 bar *	Steel
VUR140	40.00	1/4" BSPP	15 lpm	400 bar	0.5 bar *	Steel
VUR380	40.00	3/8" BSPP	30 lpm	400 bar	0.5 bar *	Steel
VUR120	44.00	1/2" BSPP	50 lpm	400 bar	0.5 bar *	Steel
VUR340	63.00	3/4" BSPP	90 lpm	400 bar	0.5 bar *	Steel
VUR100	98.00	1" BSPP	150 lpm	350 bar	0.5 bar *	Steel
VUR114	174.00	1.1/4" BSPP	200 lpm	350 bar	0.5 bar *	Steel
VUR112	203.00	1.1/2" BSPP	300 lpm	350 bar	0.5 bar *	Steel
VUR200	299.00	2" BSPP	430 lpm	250 bar	0.5 bar *	Steel
VMF380SP1	38.00	3/8" BSPP	30 lpm	400 bar	0.5 bar *	Steel
VMF120SP1	43.00	1/2" BSPP	50 lpm	400 bar	0.5 bar *	Steel
VMF340SP1	61.00	3/4" BSPP	90 lpm	400 bar	0.5 bar *	Steel

* 3, 4.5 and 6 bar crack also available



VUR

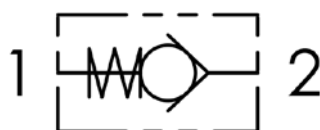


VMF



Cartridge Check Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure	Pilot Ratio	Material
VUI140	26.00	1/4" BSPP	20 lpm	350 bar	0.5 bar	Steel
VUI380	38.00	3/8" BSPP	30 lpm	350 bar	0.5 bar	Steel
VUI120	39.00	1/2" BSPP	50 lpm	350 bar	0.5 bar	Steel
VUI340	49.00	3/4" BSPP	80 lpm	350 bar	0.5 bar	Steel



Contact us for details of installation tools.



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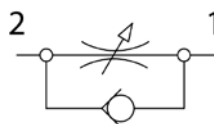


Needle Flow Control Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure	Material
STBF140	76.00	1/4" BSPP	15 lpm	400 bar	Steel
STBF380	81.00	3/8" BSPP	30 lpm	400 bar	Steel
STBF120	93.00	1/2" BSPP	50 lpm	400 bar	Steel
STBF340	141.00	3/4" BSPP	80 lpm	400 bar	Steel
STBF100	195.00	1" BSPP	150 lpm	400 bar	Steel
STBF114	326.00	1.1/4" BSPP	200 lpm	350 bar	Steel
STBF112	381.00	1.1/2" BSPP	300 lpm	350 bar	Steel



STBF



STUF



Needle Flow Control Valve with Reverse Flow Check

Part #	List Price \$	Ports	Max Flow	Max Pressure	Material
STUF140	87.00	1/4" BSPP	15 lpm	400 bar	Steel
STUF380	93.00	3/8" BSPP	30 lpm	400 bar	Steel
STUF120	109.00	1/2" BSPP	50 lpm	400 bar	Steel
STUF340	169.00	3/4" BSPP	80 lpm	400 bar	Steel
STUF100	250.00	1" BSPP	150 lpm	400 bar	Steel
STUF114	435.00	1.1/4" BSPP	200 lpm	350 bar	Steel
STUF112	500.00	1.1/2" BSPP	300 lpm	350 bar	Steel

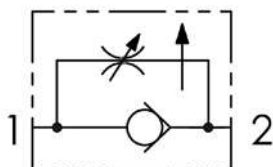
Panel Mount Nuts

Part #	List Price \$	Valve
84100022	11.00	STBF/STUF140/380
84100023	13.00	STBF/STUF120
84100024	20.00	STBF/STUF340/100



Pressure Compensated Flow Control Valve with Reverse Flow Check

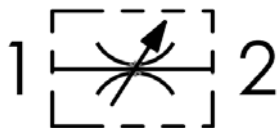
Part #	List Price \$	Ports	Max Flow	Max Pressure	Material
VRC140	174.00	1/4" BSPP	10 lpm	250 bar	Steel
VRC380	174.00	3/8" BSPP	18 lpm	250 bar	Steel
VRC120	207.00	1/2" BSPP	33 lpm	250 bar	Steel



Barrel Flow Control Valve



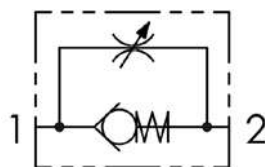
Part #	List Price \$	Ports	Max Flow	Max Pressure	Material
VBRF140	78.00	1/4" BSPP	15 lpm	350 bar	Steel
VBRF380	88.00	3/8" BSPP	30 lpm	350 bar	Steel
VBRF120	103.00	1/2" BSPP	45 lpm	350 bar	Steel
VBRF340	157.00	3/4" BSPP	85 lpm	300 bar	Steel
VBRF100	251.00	1" BSPP	150 lpm	250 bar	Steel



Barrel Flow Control Valve with Reverse Flow Check

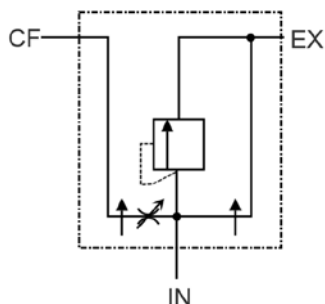


Part #	List Price \$	Ports	Max Flow	Max Pressure	Material
VURF140	87.00	1/4" BSPP	15 lpm	350 bar	Steel
VURF380	99.00	3/8" BSPP	30 lpm	350 bar	Steel
VURF120	110.00	1/2" BSPP	45 lpm	350 bar	Steel
VURF340	175.00	3/4" BSPP	85 lpm	300 bar	Steel
VURF100	278.00	1" BSPP	150 lpm	250 bar	Steel



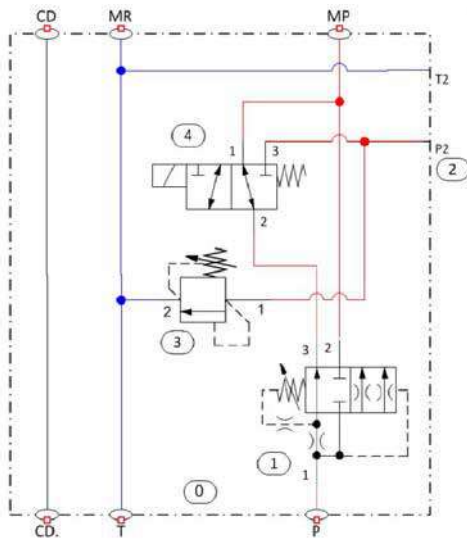
Priority Flow Control

Part #	List Price \$	Ports	Max Flow	Max Pressure	Material
FC51G1/2	297.00	1/2" BSPP	61 lpm	207 bar	Cast iron
FC51G3/4	297.00	3/4" BSPP	114 lpm	207 bar	Cast iron
FC51G3/8	297.00	3/8" BSPP	30 lpm	207 bar	Cast iron
FCB51G1/2	356.00	1/2" BSPP with relief	61 lpm	207 bar	Cast iron
FCB51G3/4	356.00	3/4" BSPP with relief	114 lpm	207 bar	Cast iron
FCB51G3/8	356.00	3/8" BSPP with relief	30 lpm	207 bar	Cast iron
FCB51-HK	28.00	Replacement handle kit			
FCB51-SK	12.00	Seal kit			



Priority Flow Control with Control Valve Interface/Solenoid Unload Valve & Relief on Regulate Flow

Part #	List Price \$	Max Flow	Max Pressure	Preset Regulated Flow	Port Size	Control Valve	Unload Valve	Relief Range	Material
HYT3575-S	3570.00	90 lpm	350 bar	7 lpm	CD: 1/2" BSPP MP,MR,PT: 1" BSPP	See page 154/155	Normally Open 12v DC	20-210 bar	Steel



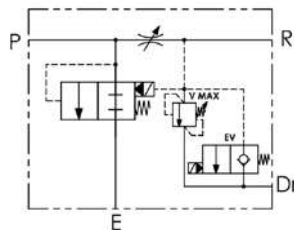
Note: Directional Control Valve sold separately (up to 8 can be fitted) - see page 154/155



Pressure Compensated Priority Flow Control Solenoid Actuated with Relief

Part #	List Price \$	Ports	Max Flow	Max Pressure	Relief	Material
VPP380VRV3	1008.00	3/8" BSPP	50 lpm	250 bar	30-210 bar	Aluminium
VPP120VRV3	1071.00	1/2" BSPP	90 lpm	250 bar	30-210 bar	Aluminium

Note: Voltage required (12 or 24v DC). Normally open or normally closed solenoid valve.



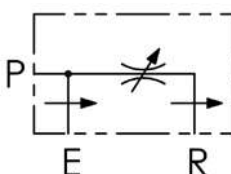
P: Pressure R: Regulated E: Exhaust Dr: Drain



Priority Flow Control - Excess to line

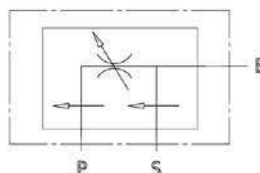
Part #	List Price \$	Ports	Max Flow	Regulated Max Flow	Max Pressure	Material
VPP380	554.00	3/8" BSPP	50 lpm	30 lpm	250 bar	Aluminium
VPP120	565.00	1/2" BSPP	90 lpm	50 lpm	250 bar	Aluminium
VPP340	891.00	3/4" BSPP	150 lpm	80 lpm	250 bar	Aluminium
PVEL05	811.00	1" BSPP	190 lpm	120 lpm	260 bar	Aluminium

VPP



P: Pressure R: Regulated E: Exhaust

PVEL

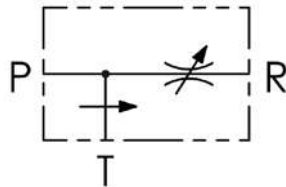


P: Priority S: Surplus E: Entry



Priority Flow Control - Excess to tank

Part #	List Price \$	Ports	Max Flow	Max Flow in R	Max Pressure	Material
VPT380	445.00	3/8" BSPP	50 lpm	30 lpm	250 bar	Aluminium
VPT120	457.00	1/2" BSPP	80 lpm	50 lpm	250 bar	Aluminium
VPT340	630.00	3/4" BSPP	150 lpm	80 lpm	250 bar	Aluminium
VPT100	831.00	1" BSPP	240 lpm	150 lpm	260 bar	Aluminium

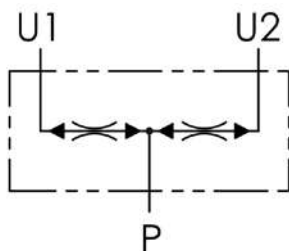


P: Pressure R: Regulated T: Tank



Cartridge Flow Dividers & Combiner

Part #	List Price \$	P-Port	U-Port	Max Flow	Max Pressure	Material
DRF101380	401.00	3/8" BSPP	3/8" BSPP	2-5 lpm	250 bar	Aluminium
DRF102380	401.00	3/8" BSPP	3/8" BSPP	3-10 lpm	250 bar	Aluminium
DRF103380	401.00	3/8" BSPP	3/8" BSPP	7-20 lpm	250 bar	Aluminium
DRF104380	401.00	3/8" BSPP	3/8" BSPP	15-40 lpm	250 bar	Aluminium
FPFDS12CB3412E	565.00	3/4" BSPP	1/2" BSPP	75-100 lpm	250 bar	Aluminium
FPFDS16CB1616A	521.00	1" BSPP	3/4" BSPP	80-115 lpm	250 bar	Aluminium
FPFDS16CB1616E	521.00	1" BSPP	3/4" BSPP	115-150 lpm	250 bar	Aluminium



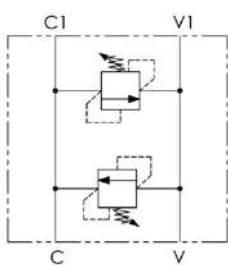
DRF



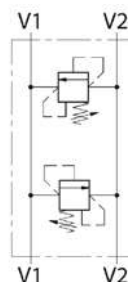
FPFD

Cross Line Relief Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure	Material
VBDC3802	185.00	3/8" BSPP	40 lpm	20-210 bar	Steel
VBDC3803	185.00	3/8" BSPP	40 lpm	40-350 bar	Steel
VBDC1202	207.00	1/2" BSPP	40 lpm	20-210 bar	Steel
VBDC1203	207.00	1/2" BSPP	40 lpm	40-350 bar	Steel
DPRL800420A	319.00	3/4" BSPP	80 lpm	30-260 bar	Aluminium



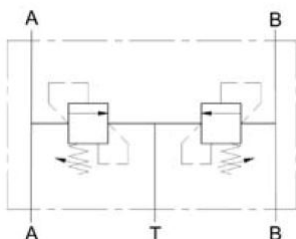
VBDC



DPRL

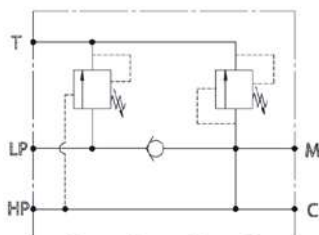
Dual Pressure Relief Common Tank Line Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure	Material
DPRSU800320A	353.00	1/2" BSPP	80 lpm	260 bar	Aluminium
DPRL800420A	319.00	3/4" BSPP	80lpm	260 bar	Aluminium



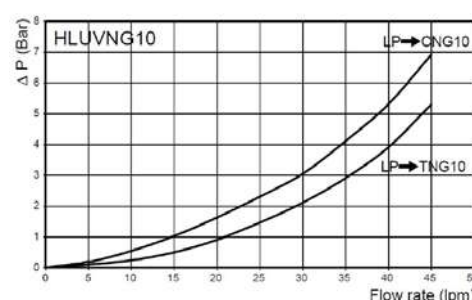
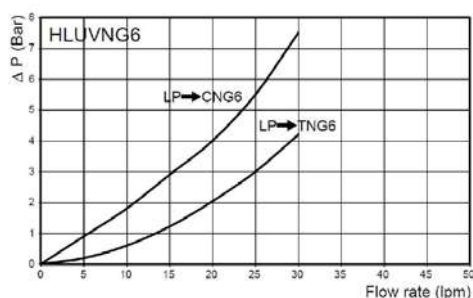
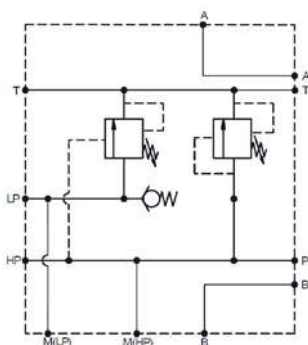
Inline Unloading Valve

Part #	List Price \$	Ports					Max Flow		Max Pressure	Material
		M	C	HP	LP	T	HP	LP		
HLUV-03-20-30	515.00	1/4"	1/2"	3/8"	1/2"	3/4"	30 lpm	60 lpm	360 bar	Steel
HLUV-04-20-30	708.00	1/4"	3/4"	1/2"	3/4"	1"	20 lpm	100 lpm	360 bar	Steel



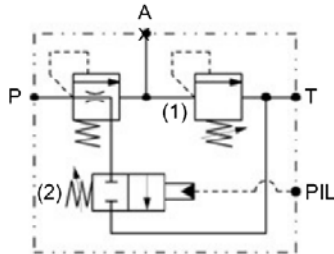
High Low Unloading Valve

Part #	List Price \$	To Suit	Relief	Unload	Material
HLUVNG6-20-30	708.00	Cetop 3	100-350 bar	20-260 bar	Aluminium
HLUVNG10-20-30	776.00	Cetop 5	100-350 bar	20-260 bar	Aluminium



Pilot Operated Unloading Valve

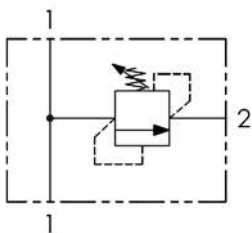
Part #	List Price \$	Ports BSPP			Max Flow	Max Pressure	Pilot Pressure Range	Relief Pressure Range	Material
		P + A	T	PIL					
VMSIP80R03-1	830.00	1/2"	3/8"	1/4"	40 lpm	250 bar	100-250 bar	30-260 bar	Steel



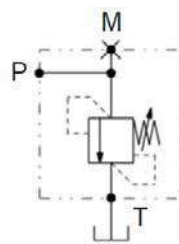
Inline Relief Valve

Part #	List Price \$	Ports	Max Flow	Pressure Range	Material
VMDR1-1401C	119.00	1/4" BSPP	20 lpm	10-40 bar	Steel
VMDR1-1402C	119.00	1/4" BSPP	20 lpm	20-110 bar	Steel
VMDR1-1403C	119.00	1/4" BSPP	20 lpm	30-210 bar	Steel
VMDR1-1404C	119.00	1/4" BSPP	20 lpm	40-350 bar	Steel
VMDR40-3801C	124.00	3/8" BSPP	40 lpm	10-110 bar	Steel
VMDR40-3802C	124.00	3/8" BSPP	40 lpm	20-210 bar	Steel
VMDR40-3803C	124.00	3/8" BSPP	40 lpm	40-300 bar	Steel
VMDR40-1201C	124.00	1/2" BSPP	40 lpm	10-110 bar	Steel
VMDR40-1202C	124.00	1/2" BSPP	40 lpm	20-210 bar	Steel
VMDR40-1203C	124.00	1/2" BSPP	40 lpm	40-300 bar	Steel
VMDR90-1201C	157.00	1/2" BSPP	80 lpm	10-100 bar	Steel
VMDR90-1202C	157.00	1/2" BSPP	80 lpm	20-250 bar	Steel
VMDR90-1203C	157.00	1/2" BSPP	80 lpm	40-350 bar	Steel
VMDR120-3401C	228.00	3/4" BSPP	120 lpm	10-100 bar	Steel
VMDR120-3402C	228.00	3/4" BSPP	120 lpm	20-250 bar	Steel
VMDR120-3403C	228.00	3/4" BSPP	120 lpm	40-350 bar	Steel
VMDR120-1001C	228.00	1" BSPP	120 lpm	10-100 bar	Steel
VMDR120-1002C	228.00	1" BSPP	120 lpm	20-250 bar	Steel
VMDR120-1003C	228.00	1" BSPP	120 lpm	40-350 bar	Steel
81300127	12.00	Adjustment Handle - VMDR40/VMDR90/VMDR120 Series			

Part #	List Price \$	Ports	Max Flow	Pressure Range	Max Pressure	Material
PRCDL1500430	336.00	3/4" BSPP	150 lpm	100-350 bar	250 bar	Aluminium
PRCDL2500530	581.00	1" BSPP	240 lpm	120-350 bar	250 bar	Aluminium



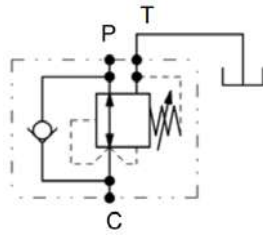
VMDR



PRCDL

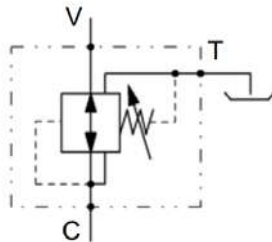
Pressure Reducing Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure	Max Pressure Range	Material
VARPED02	474.00	3/8" BSPP	20 lpm	260 bar	10-140 bar	Aluminium



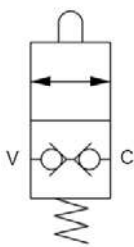
Pressure Reducing Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure In	Max Regulated Pressure	Material
VPREDAD02	350.00	3/8" BSPP	30 lpm	250 bar	140 bar	Aluminium

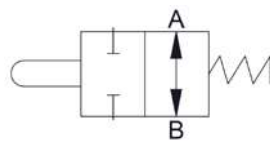


End Stroke Valve

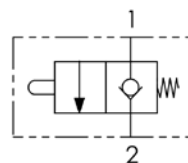
Part #	List Price \$	Ports	Max Flow	Max Pressure	Function	Material
FCM380N	152.00	3/8" BSPP	40 lpm	350 bar	Normally Closed	Steel
FCM120N	217.00	1/2" BSPP	60 lpm	300 bar	Normally Closed	Steel
ESOP02	210.00	3/8" BSPP	30 lpm	350 bar	Normally Open	Steel
ESOP03	230.00	1/2" BSPP	60 lpm	350 bar	Normally Open	Steel
ESDCM03	450.00	1/2" BSPP	80 lpm	400 bar	Normally Closed	Steel



ESDCM



ESOP

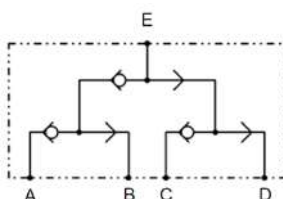


FCM



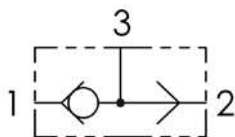
Multiple Circuit Sensing Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure	Material
NEW VSEL3VHC01	311.00	1/4" BSPP	10 lpm	250 bar	Aluminium

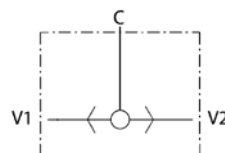


Load Shuttle Ball Valve

Part #	List Price \$	Ports	Max Flow	Max Pressure	Material
VUSF140N	55.00	1/4" BSPP	20 lpm	350 bar	Steel
VUSF380N	60.00	3/8" BSPP	40 lpm	350 bar	Steel
VUSF120N	83.00	1/2" BSPP	60 lpm	350 bar	Steel
SHV04	188.00	3/4" BSPP	140 lpm	350 bar	Steel
SHV05	265.00	1" BSPP	180 lpm	300 bar	Steel



VUSF

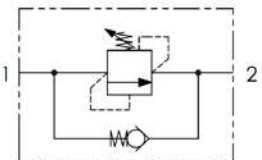


SHV

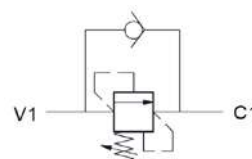


Sequence Valve

Part #	List Price \$	Ports	Max Flow	Max Adj. Pressure	Max Pressure	Material
VSL1402	174.00	1/4" BSPP	20 lpm	210 bar	350 bar	Steel
VSL1403	174.00	1/4" BSPP	20 lpm	300 bar	350 bar	Steel
VSL3802	174.00	3/8" BSPP	40 lpm	210 bar	350 bar	Steel
VSL3803	174.00	3/8" BSPP	40 lpm	300 bar	350 bar	Steel
VSL1202	185.00	1/2" BSPP	40 lpm	210 bar	350 bar	Steel
VSL1203	185.00	1/2" BSPP	40 lpm	300 bar	350 bar	Steel
SV800420A	265.00	3/4" BSPP	80 lpm	260 bar	350 bar	Aluminium
SV1500530C	620.00	1" BSPP	200 lpm	260 bar	350 bar	Aluminium



VSL

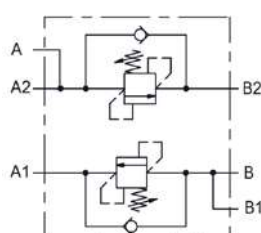


SV



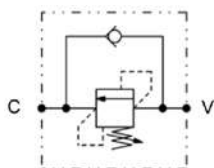
Dual Sequence Valve

Part #	List Price \$	Ports	Max Flow	Pilot Ratio	Range	Material
DSV0220SF	700.00	3/8" BSPP	60 lpm	4.2:1	60-210 bar	Aluminium



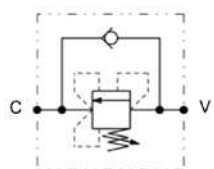
Sequence Valve - Line Mount

Part #	List Price \$	Ports	Max Flow	Max Pressure	Range	Material
SVL0210	220.00	3/8" BSPP	40 lpm	350 bar	30-120 bar	Steel
SVL0310	229.00	1/2" BSPP	80 lpm	350 bar	30-140 bar	Steel



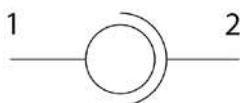
Sequence Valve - Line Mount, Back Pressure Proof

Part #	List Price \$	Ports	Max Flow	Max Pressure	Range	Material
SVLCC0410	269.00	3/4" BSPP	120 lpm	350 bar	50-140 bar	Steel
SVLCC0420	269.00	3/4" BSPP	120 lpm	350 bar	80-250 bar	Steel



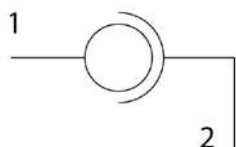
Rotating Coupling - Straight

Part #	List Price \$	Ports	Max Flow	Max Pressure	Max Rotation Pressure
GGIL140	46.00	1/4" BSPP	25 lpm	400 bar	200 bar
GGIL380	52.00	3/8" BSPP	35 lpm	400 bar	200 bar
GGIL120	58.00	1/2" BSPP	60 lpm	350 bar	150 bar
GGIL340	86.00	3/4" BSPP	100 lpm	350 bar	150 bar
GGIL100	118.00	1" BSPP	180 lpm	350 bar	100 bar
NEW GGIL114	215.00	1.1/4" BSPP	200 lpm	250 bar	125 bar
NEW GGIL112	361.00	1.1/2" BSPP	250 lpm	210 bar	105 bar
NEW GGIL200	527.00	2" BSPP	300 lpm	180 bar	90 bar



Rotating Coupling - 90°

Part #	List Price \$	Ports	Max Flow	Max Pressure	Max Rotation Pressure
GG90140	52.00	1/4" BSPP	25 lpm	400 bar	200 bar
GG90380	57.00	3/8" BSPP	35 lpm	400 bar	200 bar
GG90120	68.00	1/2" BSPP	60 lpm	350 bar	150 bar
GG90340	105.00	3/4" BSPP	100 lpm	350 bar	150 bar
GG90100	135.00	1" BSPP	180 lpm	350 bar	100 bar
NEW GG90114	312.00	1.1/4" BSPP	200 lpm	250 bar	125 bar
NEW GG90112	510.00	1.1/2" BSPP	250 lpm	210 bar	105 bar
NEW GG90200	684.00	2" BSPP	300 lpm	180 bar	90 bar



2-Way Electric Operated Solenoid Valves Normally Closed



Part #	List Price \$	Max Pressure	Max Flow	Manual Override	Cavity	Coil Core		Diagram
EC082A-CNN	127.00	210 bar	22 lpm	No	08-2	18W	EC	1
EC082A-CNV	137.00	210 bar	22 lpm	Yes	08-2	22W	EC360	12
EC082B-CNN	188.00	350 bar	40 lpm	No	08-2	22W	EC360	1
EC082C-CNN	196.00	350 bar	40 lpm	No	08-2	22W	EC360	2
EC082C-CNV	222.00	350 bar	40 lpm	Yes	08-2	22W	EC360	13
EC102A-CNN	248.00	350 bar	70 lpm	No	10-2	22W	EC360	2
EC102A-CNV	324.00	350 bar	70 lpm	Yes	10-2	22W	EC360	13
NEW F.72.0.12.2.08.A.0.A.0.0	335.00	350 bar	150 lpm	No	12-2	22W	EC360	2
NEW F.72.0.12.2.08.A.0.B.0.0	370.00	350 bar	150 lpm	Yes	12-2	22W	EC360	12

2-Way Electric Operated Solenoid Valve Normally Open



Part #	List Price \$	Max Pressure	Max Flow	Manual Override	Cavity	Coil Core		Diagram
EC082A-ONN	150.00	210 bar	22 lpm	No	08-2	18W	EC	3
EC082C-ONN	219.00	350 bar	40 lpm	No	08-2	22W	EC360	5
EC102A-ONN	253.00	350 bar	70 lpm	No	10-2	22W	EC360	5
NEW F.72.0.12.2.09.A.0.A.0.0	342.00	350 bar	150 lpm	No	12-2	22W	EC360	5

2-Way Electric Operated Solenoid Valve Dual Check Normally Closed



Part #	List Price \$	Max Pressure	Max Flow	Manual Override	Cavity	Coil Core		Diagram
ED082A-CNP	158.00	210 bar	22 lpm	Yes	08-2	22W	EC360	7
ED082B-CNN	285.00	350 bar	40 lpm	No	08-2	22W	EC360	6
ED082B-CNV	314.00	350 bar	40 lpm	Yes	08-2	22W	EC360	6
VEM6	109.00	320 bar	30 lpm	Yes	08-2	22W	EC360	8
ED102A-CNN	386.00	350 bar	70 lpm	No	10-2	22W	EC360	6
ED102A-CNV	413.00	350 bar	70 lpm	Yes	10-2	22W	EC360	7
VEM10	119.00	320 bar	50 lpm	Yes	10-2	22W	EC360	8
NEW F.72.0.12.2.12.A.0.A.0.0	507.00	350 bar	150 lpm	No	12-2	22W	EC360	6

2-Way Electric Operated Solenoid Valves Dual Check Normally Open

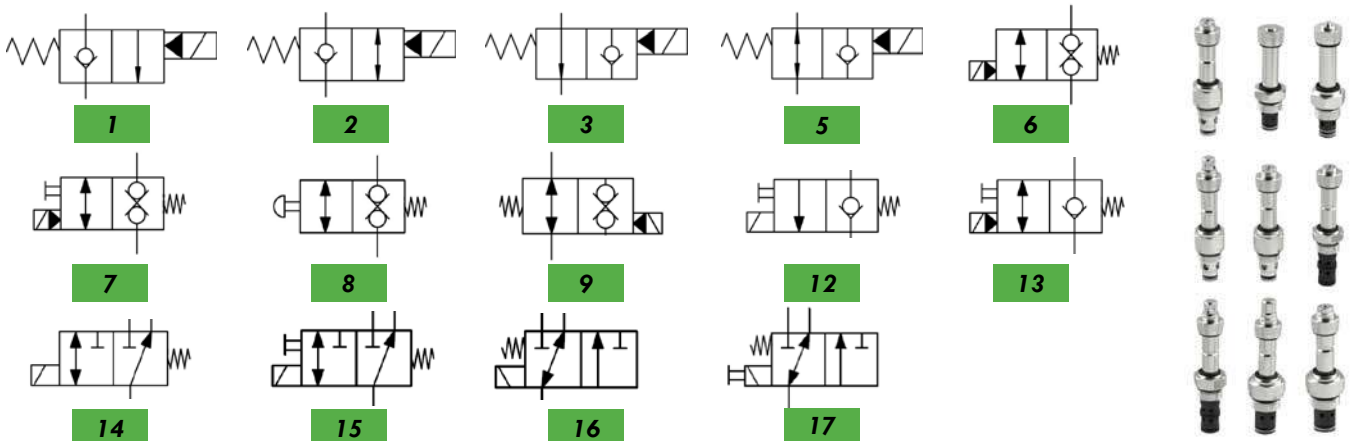


Part #	List Price \$	Max Pressure	Max Flow	Manual Override	Cavity	Coil Core		Diagram
ED082B-ONN	285.00	350 bar	40 lpm	No	08-2	22W	EC360	9
ED102A-ONN	399.00	350 bar	70 lpm	No	10-2	22W	EC360	9
NEW F.72.0.12.2.13.A.0.A.0.0	570.00	350 bar	150 lpm	No	12-2	22W	EC360	9
NEW F.72.0.12.2.13.A.0.C.0.0	611.00	350 bar	150 lpm	Yes	12-2	22W	EC360	9

3-Way 2 Position Cartridge Valve

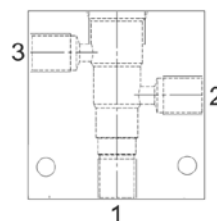
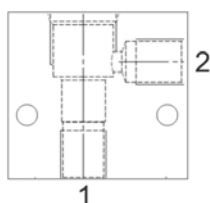


Part #	List Price \$	Max Pressure	Max Flow	Manual Override	Cavity	Coil Core		Diagram
ES083A-1NN	195.00	210 bar	12 lpm	No	08-3	22W	EC360	14
ES083A-1NV	262.00	210 bar	12 lpm	Yes	08-3	22W	EC360	15
ES083A-2NN	195.00	210 bar	12 lpm	No	08-3	22W	EC360	16
ES083A-2NV	234.00	210 bar	12 lpm	Yes	08-3	22W	EC360	17



Cartridge Manifold

Part #	List Price \$	Cavity	Ports	Max Pressure	Material
62200357	59.00	SAE8-3	1/4" BSPP	210 bar	Aluminium
62200358	62.00	SAE8-3	3/8" BSPP	210 bar	Aluminium
62200032	59.00	SAE8-2	1/4" BSPP	350 bar	Steel
62200051	61.00	SAE8-2	3/8" BSPP	350 bar	Steel
62200373	95.00	SAE10-3	3/8" BSPP	210 bar	Aluminium
62200374	106.00	SAE10-3	1/2" BSPP	210 bar	Aluminium
62200451	134.00	SAE10-2	3/8" BSPP	350 bar	Steel
62200452	134.00	SAE10-2	1/2" BSPP	350 bar	Steel
62200419	179.00	SAE12-2	3/4" BSPP	350 bar	Steel
62200420	258.00	SAE12-2	1" BSPP	350 bar	Steel



Coils

Part #	List Price \$	Voltage	Power	Core	Length
EC012DC	30.00	12v DC	18 watt *	13.2mm	40mm
EC024DC	30.00	24v DC	18 watt *	13.2mm	40mm
EC11050	31.00	110v AC	18 watt *	13.2mm	40mm
EC22050 **	31.00	220v AC	18 watt	13.2mm	40mm
EC36012DC	34.00	12v DC	22 watt	13.2mm	40mm
EC36024DC	34.00	24v DC	22 watt	13.2mm	40mm
EC36220RAC ***	36.00	220v AC RAC	22 watt	13.2mm	40mm



* These 18 watt coils only suitable with EC082A-CNN & EC082A-ONN cartridge valves.

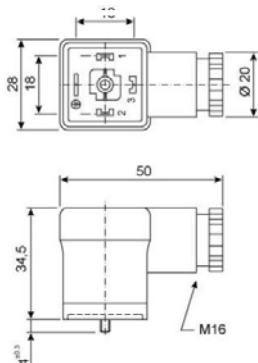
** EC22050 can only be used with EC082A-CNV & EC082A-CNN cartridge valves, and requires DP-REC (DIN Plug with rectifier AC to DC).

*** EC36220RAC is compatible with all valves and requires DP-REC (DIN plug with rectifier AC to DC).

DIN Plugs

Part #	List Price \$	Description	DIN Size	Terminals	Body	LED
DP-IP67-AC/DC-250	17.00	1-250V AC+DC, IP67	DIN 43650-A	3	Clear	Yes
DP-IP67-AC/DC-38	17.00	1-38V AC+DC, IP67	DIN 43650-A	3	Clear	Yes
DP-IP67-AC/DC-3M	35.00	1-38V AC+DC, 3m Cable, IP67	DIN 43650-A	3	Clear	Yes
DP-LED-AC	11.00	AC	DIN 43650-A	3	Clear	Yes
DP-LED-DC	11.00	DC	DIN 43650-A	3	Clear	Yes
DP-REC-LV	29.00	Rectifier AC to DC (1-48v)	DIN 43650-A	3	Clear	Yes
DP-REC	29.00	Rectifier AC to DC (70-250v)	DIN 43650-A	3	Clear	No

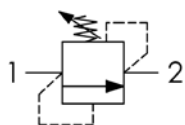
Note: DIN 43650-A = ISO 4400



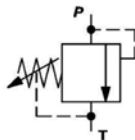
Relief Valve

Part #	List Price \$	Cavity	Relief Type	Max Flow	Range
VMD1-C1	55.00	SAE8-2	Direct Acting	20 lpm	10-40 bar
VMD1-C2	55.00	SAE8-2	Direct Acting	20 lpm	20-110 bar
VMD1-C3	55.00	SAE8-2	Direct Acting	20 lpm	30-210 bar
VMD1-C4	55.00	SAE8-2	Direct Acting	20 lpm	40-350 bar
DRV-S08-04-60-N-H	79.00	SAE8-2	Direct Acting	30 lpm	16-60 bar
DRV-S08-04-135-N-H	79.00	SAE8-2	Direct Acting	30 lpm	25-135 bar
DRV-S08-04-220-N-H	79.00	SAE8-2	Direct Acting	30 lpm	50-220 bar
DRV-S08-04-350-N-H	79.00	SAE8-2	Direct Acting	30 lpm	120-350 bar
CPS-08	28.00	SAE8-2	Steel cavity blanking plug		
VMD8C1	71.00	SAE10-2	Direct Acting	40 lpm	10-90 bar
VMD8C2	71.00	SAE10-2	Direct Acting	40 lpm	20-210 bar
VMD8C3	71.00	SAE10-2	Direct Acting	40 lpm	70-350 bar
CPS-10	52.00	SAE10-2	Steel cavity blanking plug		
VMD160-C1	127.00	SAE12-2	Direct Acting Differential Pressure	160 lpm	10-120 bar
VMD160-C2	127.00	SAE12-2	Direct Acting Differential Pressure	160 lpm	100-250 bar
VMD160-C3	158.00	SAE12-2	Direct Acting Differential Pressure	160 lpm	190-350 bar
81300095	5.00	SAE12-2	Tamper Proof Cap for VMD160		
81300127	12.00	SAE12-2	Hand Knob For VMD160		

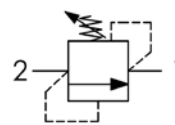
Note: Pay attention to flow direction!



VMD1/VMD8



DRV-S08



VMD160

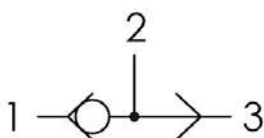
Single Acting Pilot Operated Check Valve Cartridge

Part #	List Price \$	Cavity	Max Flow	Max Pressure
VPR08	84.00	SAE8-3	15 lpm	350 bar
VPR10	90.00	SAE10-3	30 lpm	350 bar



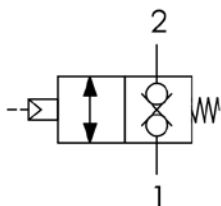
Cartridge Load Shuttle Valve

Part #	List Price \$	Cavity	Max Flow	Max Pressure
SV08	53.00	SAE8-3	15 lpm	350 bar
SV10	58.00	SAE10-3	30 lpm	350 bar



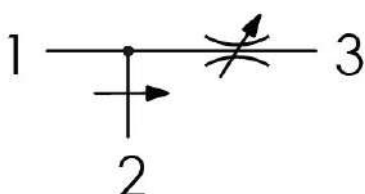
Pneumatic Pilot Valve

Part #	List Price \$	Cavity	Max Flow	Max Pressure
VPN6	169.00	SAE8-2	40 lpm	350 bar



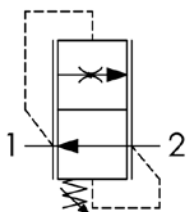
Priority Flow Control Cartridge Valve Pressure Compensated

Part #	List Price \$	Cavity	Max Flow	Regulated Max Flow	Max Pressure
CP10	332.00	SAE10-3	50 lpm	30 lpm	350 bar



Flow Control Cartridge Valve Pressure Compensated

Part #	List Price \$	Cavity	Controlled Flow		Max Pressure
			Min	Max	
VCF63C	84.00	SAE8-2	1.3 lpm	5.1 lpm	350 bar
VCF65C	84.00	SAE8-2	2.6 lpm	9.1 lpm	350 bar
VCF67C	84.00	SAE8-2	4 lpm	14.4 lpm	350 bar
12000354	16.00	Hand knob adjustment for VCF6			



Bidirectional Flow Control Cartridge

Part #	List Price \$	Cavity	Max Flow	Max Pressure
VBF6C	47.00	SAE08-2	30 lpm	350 bar
VBF6V	58.00	SAE08-2	30 lpm	350 bar



VBF6C



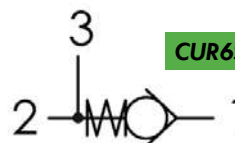
VBF6V

Cartridge Check Valve

Part #	List Price \$	Cavity	Pilot Ratio	Auxiliary Port	Max Flow	Max Pressure
CUR6SP1	40.00	SAE8-2	1 bar	n/a	25 lpm	350 bar
CUR6SP3	42.00	SAE8-2	3 bar	n/a	25 lpm	350 bar
CUR6SP4.5	42.00	SAE8-2	4.5 bar	n/a	25 lpm	350 bar
CUR6SP1M	42.00	SAE8-2	1 bar	1/4" BSPP	25 lpm	350 bar



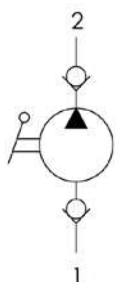
CUR6SP



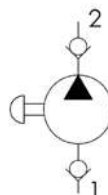
CUR6SP1M

Cartridge Hand Pump

Part #	List Price \$	Cavity	Displacement	Max Pressure
PME10	333.00	SAE10-2	0.6 cc	200 bar
PME5P	137.00	SAE08-2	0.6 cc	50 bar



PME10



PME5P

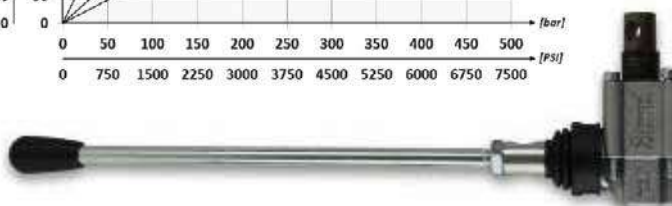
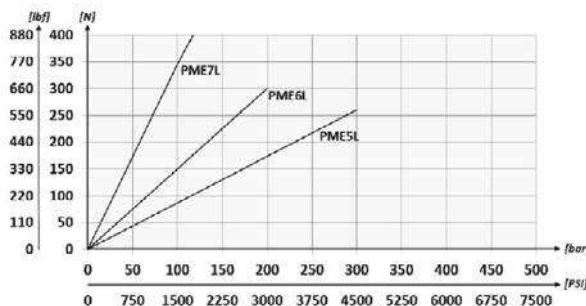
Note: PME10 is supplied with 500mm lever

Inline Cartridge Hand Pump

Part #	List Price \$	Displacement	Max Pressure
PME6L	106.00	0.6 cc	200 bar
62200023	96.00	Manifold to suit PME06L - 1/4" BSPP ports, 200 bar max pressure	



62200023



PME06L