



HYDRAULIC SPECIALTIES LTD

2012 CARTRIDGE CATALOGUE

EFFECTIVE 1ST March 2012

ALL PRICES LISTED ARE G.S.T. EXCLUSIVE.

- Whilst every effort is made to hold prices steady, list prices are subject to change without prior notice.
- Where two manifold port sizes are listed the assembly price is for the smaller and may cost more for the larger port size.
- All performance and specification figures are taken from the latest possible literature and may vary from older literature versions.
- It is the responsibility of the system designer to determine suitability of the component.
- A commissioning, assembly or product conversion fee may apply.
- Product pictures shown are indicative only. Actual products may differ from that shown.
- Product contained in the cartridge catalogue is offered subject to Hyspecs' normal terms and conditions of sale.
- A restocking fee may apply on goods returned for credit.
- All manifolds priced are for aluminium unless otherwise stated. For steel manifolds an extra charge may apply.
- For high pressure (280+ bar) Hyspecs recommends steel manifolds.
- Pressure or flow setting charges may apply.
- Solenoid valves are priced with flying leads (DC only) unless otherwise stated. AC coils are DIN plug only. Hirschman / DIN plugs are not included in the price.
- Where needed banjo bolts are included in the price.



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INTRODUCTION

ABOUT HYDRAULIC CARTRIDGE MANIFOLDS

For over 35 years Hyspecs have offered comprehensive high quality hydraulic cartridge valves for the mobile and industrial equipment markets. We are designing and manufacturing cartridge manifolds using an extensive range of cartridges from HydraForce, Command Controls, Eaton and Sun to meet virtually any need encountered in machine design for flow rates of 0.4 to 500 l/min.

Cartridge valving offers hydraulic system design engineers and customers an unlimited range of integral circuit design possibilities. With the extensive range of cartridges available, entire system valving can be housed in one manifold, saving on hoses & fittings, installation time and space. Having all of the valves in one block also eliminates possible leakage points and the chance of failure.

This catalogue aims to introduce just some of the cartridge valves we now have available and help design engineers and customers to use these common valves in different applications effectively. We also custom design and manufacture cartridge manifolds to suit particular customer requirements usually incorporating several valve functions in one manifold.

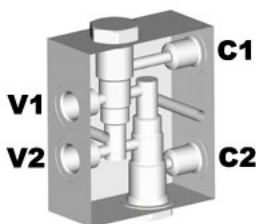
This edition is an update from the 2009 version.

HOW TO USE THE CATALOGUE

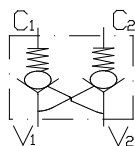
This catalogue is edited on the base of valve functions – Pressure Controls, Flow Controls, Directional Controls, Solenoid Valves, Motion Controls, Proportional Valves, Excavator Valving, and Cetop Subplates/Modules. From the CONTENTS index, you can locate the valves with the functions you are looking for. In the valves, you can choose one suitable for your particular application – flow rate, pressure, ratio, ports.

For example, you can find Double Pilot Operated Check Valves on page C6. However, for 25 l/min, 220 bar and 2:1 pilot ratio, HS9111P6B manifold with two PC10-32 cartridges is the best choice. 99 x 75 x 39mm shows the dimension of the manifold only. The cartridge numbers listed in this catalogue have been abbreviated for simplicity of description. Please consult Hyspecs for the full cartridge code and cartridge options.

HS9111P6B



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|-----------|---------------|-------------------|
| PC10-30 x 2 | 22 | 240 | Ratio 4:1 | 3/8" | \$ 467.00 |
| PC10-32 x 2 | 30 | 240 | Ratio 2:1 | 3/8" | \$ 509.00 |



- Manifold dimensions, 99 x 75 x 39mm (excluding cartridge)

All the ports are clearly shown in the catalogue as;

Accum = Accumulator
C1, C2 = Cylinder
D = Drain
M1, M2 = Motor
Pi, Po = Pressure in, out
RP1, RP2 = Reduced pressure
V, V1, V2 = Valve

Br = Brake
Cf = Controlled flow
EleI, EleR = Elevator in, return
Mh, Mp = Motor hold, pilot
Pil, pp = Pilot
T = Tank
Vh, Vp = Valve hold, pilot

By = Bypass
Ch, Cp = Cylinder hold, pilot
FlrI, FlrR = Floor in, return
P, P1, P2, P3 = Pressure
R = Return
x = plugged

Cartridge Catalogue 2012

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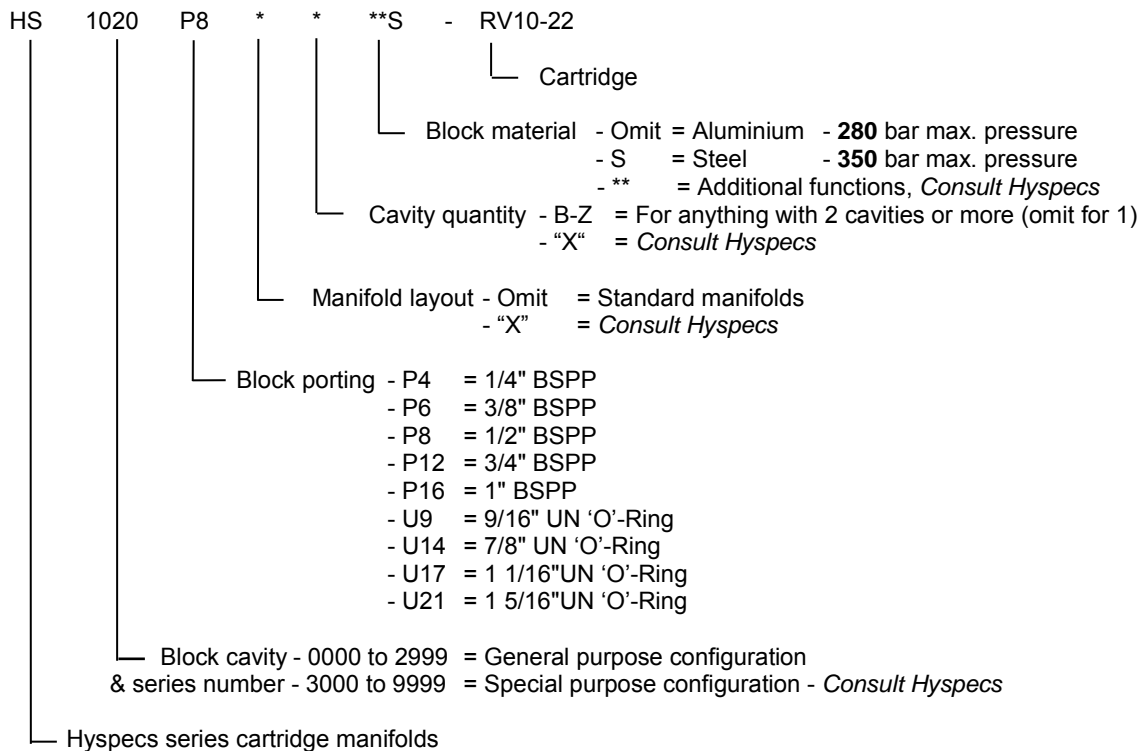
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HOW TO ORDER



- **Maximum operating pressure of block and cartridge combinations is limited to the component with lowest operating pressure rating.**
- Cartridge blocks and valves can be custom designed for a specific application or ordered as an 'off the shelf' item for more common functions.
- Price and delivery for custom designed blocks are available on application.
- NOTE: The cartridge numbers listed in this catalogue have been abbreviated for simplicity of description. Please consult Hyspecs for the full cartridge code and cartridge options.



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CONTENTS

A – PRESSURE CONTROLS

| | |
|-----|------------------------------------|
| A1 | Relief Valves |
| A23 | Pressure Reducing/Relieving Valves |
| A26 | Sequence Valves |
| A31 | Unloading Valves |

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| B13 | Flow Dividers/Combiners |
| B14 | Solenoid Defeatable Valves |
| B15 | Hoist & Roller Spreader Valves |

C – DIRECTIONAL VALVES

| | |
|-----|-------------------------------|
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| C8 | Shuttle Valves |
| C11 | External Pilot Operated |
| C16 | Manually Operated – Rotary |
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D - SOLENOID VALVES

| | |
|----|-----------------|
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| | |
|-----|------------------------------------|
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F – PROPORTIONAL VALVES

| | |
|-----|--|
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| | |
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H – CETOP SUPLATES & MODULES

| | |
|-----|--------------------------------|
| H1 | Cetop Subplates – How to Order |
| H2 | Cetop 3 Subplates |
| H14 | Cetop 3 Modules |
| H21 | Cetop 5 Subplates |

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CYLINDERS AND ACTUATORS FORMULAE - METRIC UNITS

| Symbol | Description | Units |
|--------|--------------|-----------------|
| Q | Flow Rate | l / min |
| A | Net Area | cm ² |
| v | Piston Speed | m / sec |
| F | Force | N |
| p | Pressure | Bar |

| Symbol | Description | Units |
|--------|-----------------|--------|
| D | Cylinder Bore Ø | cm |
| d | Rod Diameter | cm |
| V | Displacement | litres |
| L | Stroke Length | cm |
| t | Stroke Time | sec |

Net Area Piston Side:

$$A = \frac{\pi \times D^2}{4}$$

Net Area Rod Side:

$$A = \frac{\pi}{4} \times (D^2 - d^2)$$

Cylinder Force:

$$F = A \times p \times 10$$

Cylinder Volume:

$$V_c = \frac{A \times L}{1000}$$

Required Flow:

$$Q = A \times v \times 6$$

Stroke Time:

$$t = \frac{0.06 \times A \times L}{Q}$$



PUMPS & MOTORS FORMULAE – METRIC UNITS

| Symbol | Description | Units |
|--------|--------------|--------|
| Q | Flow Rate | l /min |
| V | Displacement | cc |
| n | Shaft Speed | rpm |
| P | Power | kW |
| T | Torque | Nm |

| Symbol | Description | Units |
|--------|----------------|---------|
| p | Pressure | Bar |
| v | Vehicle Speed | km / hr |
| r | Rolling Radius | m |
| G | Gear Reduction | |
| η | Efficiency | |

Power – Pump:

$$P = \frac{Q \times p}{600}$$

Power - Motor:

$$P = \frac{T \times n}{9,549}$$

Flow:

$$Q = \frac{V \times n}{1,000}$$

Torque:

$$T = \frac{p \times V}{20 \times \pi}$$

Vehicle Drive:

$$n = \frac{2.65 \times v \times G}{r}$$



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FLOW / VOLUME CONVERSION TABLE

EXACT CONVERSIONS

- 1 LPM = 0.264 GPM (U.S)
- 1 LPM = 0.221 GPM (Imp)
- 1 GPM (U.S.) = 3.785 LPM
- 1 GPM (Imp) = 4.524 LPM
- 1 m³ = 1000 Litres
- 1 Litre = 1000 cm³
- 1 cm³ = 0.061 in³
- 1 in³ = 16.2 cm³

APPROXIMATE CONVERSION TABLE

| LPM | GPM (U.S) | GPM (Imperial) |
|-----|-----------|----------------|
| 1 | 0.3 | 0.2 |
| 5 | 1.3 | 1.1 |
| 10 | 2.6 | 2.2 |
| 15 | 4.0 | 3.3 |
| 20 | 5.3 | 4.4 |
| 25 | 6.6 | 5.5 |
| 30 | 7.9 | 6.6 |
| 35 | 9.2 | 7.7 |
| 40 | 10.6 | 8.8 |
| 45 | 11.9 | 9.9 |
| 50 | 13.2 | 11.1 |
| 55 | 14.5 | 12.2 |
| 60 | 15.9 | 13.3 |
| 65 | 17.2 | 14.4 |
| 70 | 18.5 | 15.5 |
| 75 | 19.8 | 16.6 |
| 80 | 21.1 | 17.7 |
| 85 | 22.5 | 18.8 |
| 90 | 23.8 | 19.9 |
| 95 | 25.1 | 21.0 |
| 100 | 26.4 | 22.1 |
| 110 | 29.1 | 24.3 |
| 120 | 31.7 | 26.5 |
| 130 | 34.3 | 28.7 |
| 140 | 37.0 | 30.9 |



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POWER CONVERSION TABLE

EXACT CONVERSIONS

- 1 kW = 1.341 HP
- 1 HP = 0.7457 kW
- 1 cal/s = 4.1868 watts
- 1 kW = 56.92 Btu/min

APPROXIMATE CONVERSION TABLE

| kW | HP | cal/s | Btu/min |
|-----------|-----------|--------------|----------------|
| 0.33 | 0.4 | 79 | 19 |
| 0.50 | 0.7 | 119 | 28 |
| 0.75 | 1.0 | 179 | 43 |
| 1 | 1.3 | 239 | 57 |
| 2 | 2.7 | 478 | 114 |
| 3 | 4.0 | 717 | 171 |
| 4 | 5.4 | 955 | 228 |
| 5 | 6.7 | 1194 | 285 |
| 8 | 10.7 | 1911 | 455 |
| 10 | 13.4 | 2388 | 569 |
| 15 | 20.1 | 3583 | 854 |
| 20 | 26.8 | 4777 | 1138 |
| 25 | 33.5 | 5971 | 1423 |
| 30 | 40.2 | 7165 | 1708 |
| 35 | 46.9 | 8359 | 1992 |
| 40 | 53.6 | 9554 | 2277 |
| 45 | 60.3 | 10748 | 2561 |
| 50 | 67.1 | 11942 | 2846 |
| 55 | 73.8 | 13136 | 3131 |
| 60 | 80.5 | 14330 | 3415 |
| 65 | 87.2 | 15525 | 3700 |
| 70 | 93.9 | 16719 | 3984 |
| 75 | 100.6 | 17913 | 4269 |
| 80 | 107.3 | 19107 | 4554 |
| 85 | 114.0 | 20301 | 4838 |



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PRESSURE CONVERSION TABLE

EXACT CONVERSIONS

- 1 Bar = 14.50 PSI
- 1 Bar = 100.00 kPa
- 1 Bar = 0.1 MPa
- 1 Bar = 1.02 kg/cm²
- 1 PSI = 0.0690 Bar
- 1 PSI = 6.895 kPa
- 1 PSI = 0.007 MPa
- 1 PSI = 0.07 kg/cm²

APPROXIMATE CONVERSION TABLE

| PSI | Bar | kPa | MPa |
|-------|-------|-------|------|
| 100 | 6.9 | 690 | 0.7 |
| 200 | 13.8 | 1379 | 1.4 |
| 300 | 20.7 | 2069 | 2.1 |
| 400 | 27.6 | 2759 | 2.8 |
| 500 | 34.5 | 3448 | 3.4 |
| 1000 | 69.0 | 6897 | 6.9 |
| 1250 | 86.2 | 8621 | 8.6 |
| 1500 | 103.4 | 10345 | 10.3 |
| 1750 | 120.7 | 12069 | 12.1 |
| 2000 | 137.9 | 13793 | 13.8 |
| 2250 | 155.2 | 15517 | 15.5 |
| 2500 | 172.4 | 17241 | 17.2 |
| 2750 | 189.7 | 18966 | 19.0 |
| 3000 | 206.9 | 20690 | 20.7 |
| 3250 | 224.1 | 22414 | 22.4 |
| 3500 | 241.4 | 24138 | 24.1 |
| 3750 | 258.6 | 25862 | 25.9 |
| 4000 | 275.9 | 27586 | 27.6 |
| 4250 | 293.1 | 29310 | 29.3 |
| 4500 | 310.3 | 31034 | 31.0 |
| 4750 | 327.6 | 32759 | 32.8 |
| 5000 | 344.8 | 34483 | 34.5 |
| 5500 | 379.3 | 37931 | 37.9 |
| 6000 | 413.8 | 41379 | 41.4 |
| 10000 | 689.7 | 68966 | 69.0 |



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TORQUE CONVERSION TABLE

EXACT CONVERSIONS

- 1 Nm = 0.7376 ft-lbs
- 1 ft-lbs = 1.356 Nm
- 1 Nm = 8.851 in-lbs
- 1 in-lbs = 0.113 Nm
- 1 Nm = 0.102 kgm
- 1 kgm = 9.807 Nm

APPROXIMATE CONVERSION TABLE

| Nm | ft-lbs | in-lbs | kgm |
|-----|--------|--------|------|
| 1 | 0.7 | 8.9 | 0.1 |
| 2 | 1.5 | 17.7 | 0.2 |
| 3 | 2.2 | 26.6 | 0.3 |
| 4 | 3.0 | 35.4 | 0.4 |
| 5 | 3.7 | 44.3 | 0.5 |
| 10 | 7.4 | 88.5 | 1.0 |
| 12 | 8.9 | 106.2 | 1.2 |
| 14 | 10.3 | 123.9 | 1.4 |
| 16 | 11.8 | 141.6 | 1.6 |
| 18 | 13.3 | 159.3 | 1.8 |
| 20 | 14.8 | 177.0 | 2.0 |
| 25 | 18.4 | 221.3 | 2.6 |
| 30 | 22.1 | 265.5 | 3.1 |
| 35 | 25.8 | 309.8 | 3.6 |
| 40 | 29.5 | 354.0 | 4.1 |
| 45 | 33.2 | 398.3 | 4.6 |
| 50 | 36.9 | 442.6 | 5.1 |
| 75 | 55.3 | 663.8 | 7.7 |
| 100 | 73.8 | 885.1 | 10.2 |
| 150 | 110.6 | 1327.7 | 15.3 |
| 200 | 147.5 | 1770.2 | 20.4 |
| 300 | 221.3 | 2655.3 | 30.6 |
| 400 | 295.0 | 3540.4 | 40.8 |
| 500 | 368.8 | 4425.5 | 51.0 |
| 600 | 442.6 | 5310.6 | 61.2 |



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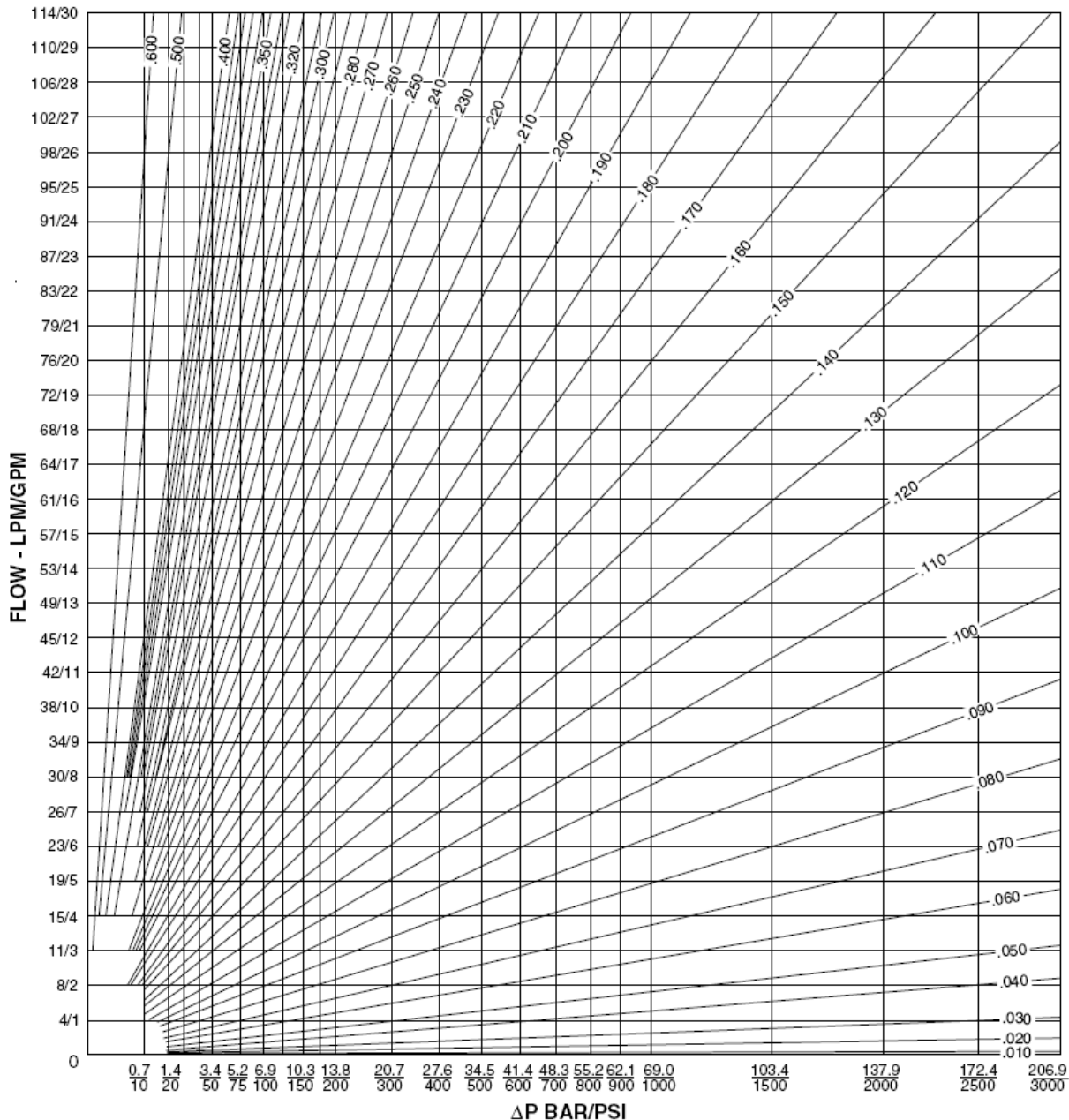
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Orifice Disc Sizing Guides

ORIFICE DISC SIZING GUIDE (Inches)

Curves represent orifice disc drill-thru diameters.



Note: Table is calculated at 32 cSt (150 SSU) oil at 40°C. Values will change with viscosity changes.

Cartridge Catalogue 2012



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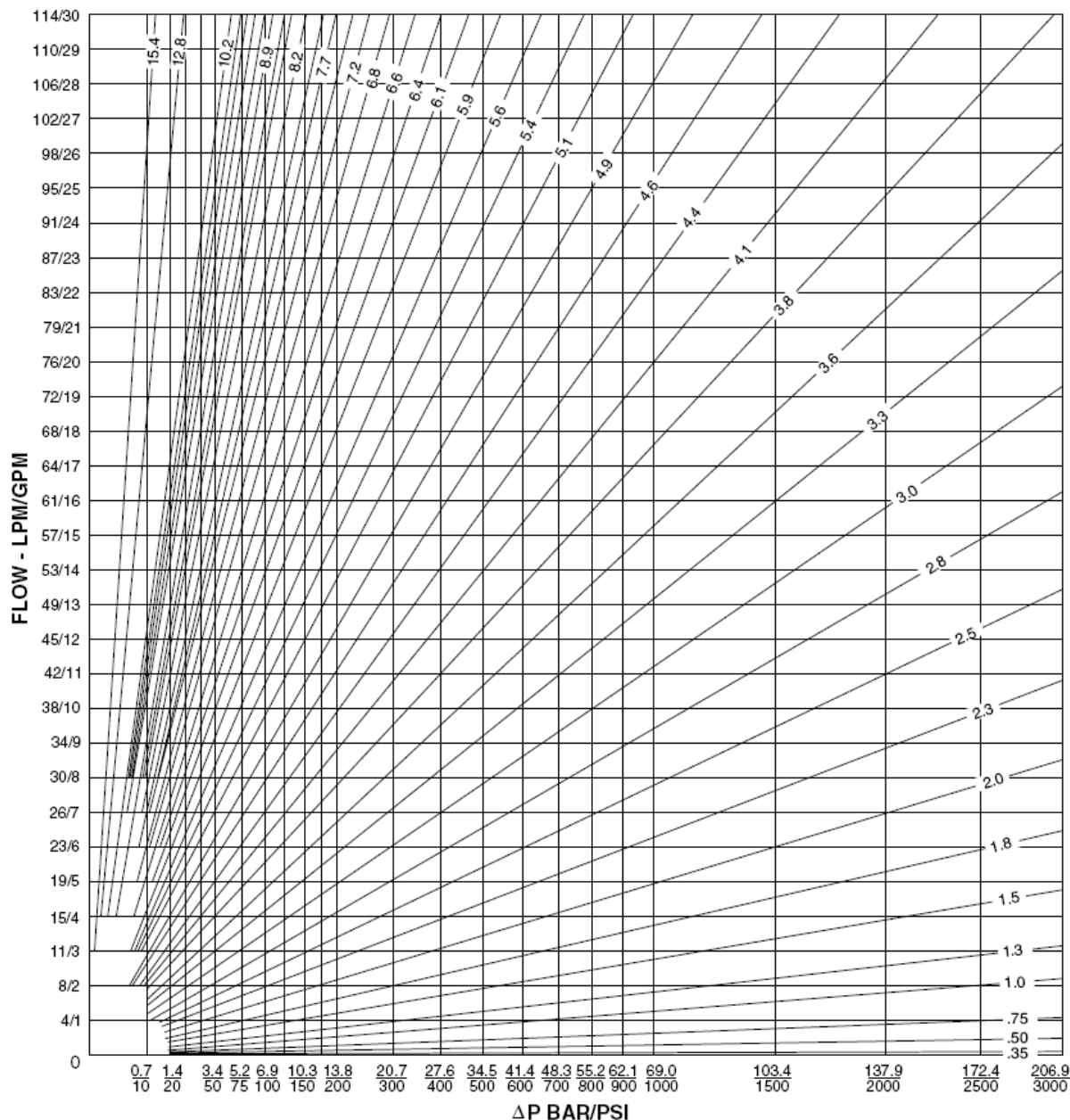
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Orifice Disc Sizing Guides (cont'd)

ORIFICE DISC SIZING GUIDE (mm)

Curves represent orifice disc drill-thru diameters.



Note: Table is calculated at 32 cSt (150 SSU) oil at 40°C. Values will change with viscosity changes.

GUIDE EXTRACTED FROM HYDRAFORCE TECHNICAL CATALOGUE 2004/2005

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CONTENTS SECTION A – PRESSURE CONTROLS**A1 Relief Valves**

- A1 2-Port
- A2 3-Port
- A5 2-Port Cross Line
- A5 3-Port Cross Line
- A6 4-Port Cross Line
- A7 5-Port Cross Line
- A9 2-Stage - Solenoid Controlled
- A10 Ventable
- A10 Solenoid Ventable
- A12 SAE Pad Mounted
- A13 European Pad Mounted
- A15 Banjo Bolt Mounted - Single
- A16 Banjo Bolt Mounted - Single Relief + Anti-Cav. Check
- A18 Banjo Bolt Mounted - Dual Relief (Cross Line)
- A21 Cross Line With Flushing - Hydrostatic Transmission
- A22 Flushing Valves

A23 Pressure Reducing & Relieving Valves**A26 Sequence Valves**

- A26 Single
- A28 Dual
- A29 Hi-Low Double Pump Sequence Valves

A31 Unloading Valves

- A31 Accumulator Unloading Valves

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RELIEF VALVES

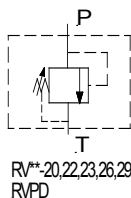
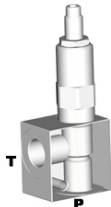
2-PORT RELIEF VALVES

Click on individual cartridges for more info



HS0820P4, P6

RV** 20/29/08



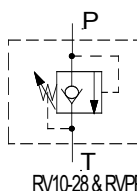
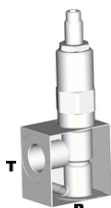
RV08-22

| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|------------------------------|---------------|----------------|
| RV08-20 | 22 | 228 | Direct act. Poppet | 1/4"-3/8" | \$ 197.00 |
| RV58-20 | 22 | 345* | Direct act. Poppet | 1/4"-3/8" | \$ 202.00 |
| RV08-22 | 30 | 220 | Differential Poppet | 1/4"-3/8" | \$ 197.00 |
| RVPD-08 | 7.6 | 350* | Direct Acting, Pilot Control | 1/4"-3/8" | \$ 183.00 |
| RV08-29 | 1.9 | 240 | Direct Acting, Pilot Control | 1/4"-3/8" | \$ 199.00 |
| HS0820P4, P6 manifold only \$ 78.00 | | | | | |

- Manifold dimensions, 50 x 45 x 25mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

HS1020P6, P8

RV** 10/20/23/26/28

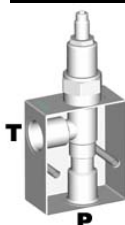


RV** -22

| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|--------------------------------|---------------|----------------|
| RV10-20 | 38 | 240 | Direct act. Poppet | 3/8"-1/2" | \$ 219.00 |
| RVD50-20 | 115 | 350* | Direct act. Poppet | 3/8"-1/2" | \$ 306.00 |
| RV10-23 | 115 | 240 | Pilot-Operated | 3/8"-1/2" | \$ 251.00 |
| RV10-28 | 115 | 240 | Pilot-Op./Free Rev. | 3/8"-1/2" | \$ 254.00 |
| RV10-26 | 115 | 240 | Pilot-Operated | 3/8"-1/2" | \$ 238.00 |
| RV50-26 | 115 | 345* | Pilot-Operated | 3/8"-1/2" | \$ 254.00 |
| RVPP-10 | 100 | 350* | Pilot-Op./Free Rev. Anti-Cav** | 3/8"-1/2" | \$ 266.00 |
| RV10-22 | 110 | 240 | Differential Poppet | 3/8"-1/2" | \$ 219.00 |
| RV50-22 | 75 | 345* | Differential Poppet | 3/8"-1/2" | \$ 254.00 |
| RVPD-10 | 8.5 | 350* | Direct Acting, Pilot Control | 3/8"-1/2" | \$ 206.00 |
| HS1020P6, P8 manifold only \$ 86.00 | | | | | |

- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing
- ** Consult Hyspecs for anti-cav performance

HS1220P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|----------------|---------------|----------------|
| RV12-26 | 185 | 207 | Pilot-Operated | 3/4" | \$ 385.00 |
| RV52-26 | 185 | 345* | Pilot-Operated | 3/4" | \$ 415.00 |
| HS1220P12 manifold only \$ 155.00 | | | | | |

- Manifold dimensions, 90 x 75 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

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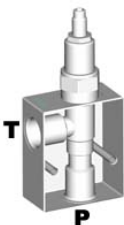
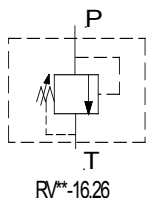
RELIEF VALVES

2-PORT RELIEF VALVES

Click on individual cartridges for more info



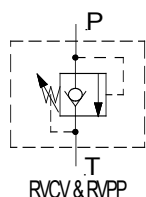
HS1221P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|----------------|---------------|----------------|
| RVPP-12 | 227 | 350* | Pilot-Operated | 3/4" | \$ 445.00 |
| HS1221P12 manifold only \$ 155.00 | | | | | |

- Manifold dimensions, 75 x 75 x 41mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

HS1620P12, P16

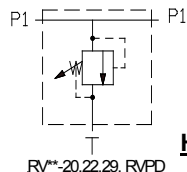


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---------------------|---------------|----------------|
| RV16-26 | 300 | 240 | Pilot-Operated | 3/4" - 1" | \$ 450.00 |
| RV56-26 | 380 | 350* | Pilot Operated | 3/4" - 1" | \$ 494.00 |
| RV5-16 | 300 | 415* | Pilot-Operated | 3/4" - 1" | \$ 480.00 |
| RV3-16 ** | 300 | 350* | Differential Poppet | 3/4" - 1" | \$ 459.00 |
| RVCV56-20 | 115 | 420* | Direct act. Poppet | 3/4" - 1" | \$ 454.00 |
| HS1620P12 or P16, manifold only \$ 189.00 or \$ 207.00 | | | | | |

- Manifold dimensions, 100 x 70 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing
- ** Swap P and T ports for RV3-16

3-PORT RELIEF VALVES

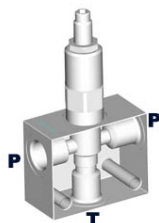
HS0820P4M, P6M



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|------------------------------|---------------|----------------|
| RV08-20 | 22 | 228 | Direct act. Poppet | 1/4"-3/8" | \$ 232.00 |
| RV58-20 | 22 | 345* | Differential Poppet | 1/4"-3/8" | \$ 237.00 |
| RVPD-08 | 7.6 | 350* | Direct Acting, Pilot Control | 1/4"-3/8" | \$ 218.00 |
| RV08-29 | 1.9 | 240 | Direct Acting, Pilot Control | 1/4"-3/8" | \$ 234.00 |
| HS0820P4M, P6M manifold only \$ 113.00 | | | | | |

- Manifold dimensions, 55 x 50 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

HS0820P4T, P6T



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---------------------|---------------|----------------|
| RV08-22 | 30 | 180 | Differential Poppet | 1/4"-3/8" | \$ 232.00 |
| HS0820P4T, P6T manifold only \$ 113.00 | | | | | |

- Manifold dimensions, 75 x 55 x 37mm (excluding cartridge)

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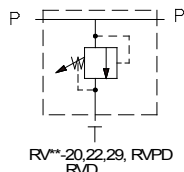
RELIEF VALVES

3-PORT RELIEF VALVES

Click on individual cartridges for more info



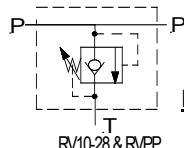
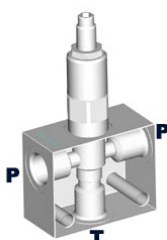
HS1020P6M



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|----------------------------|----------------|--------------|---------------------------------|---------------|-------------------|
| RV10-20 | 38 | 228 | Direct act. Poppet | 3/8" | \$ 235.00 |
| RVPD-10 | 8.5 | 350* | Direct Acting, Pilot Control | 3/8" | \$ 222.00 |
| P6M manifold only \$102.00 | | | | | |

- Manifold dimensions, 60 x 50 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

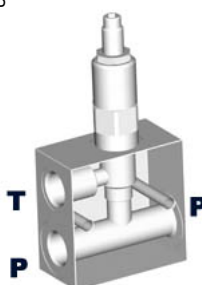
HS1020P6T, P8T



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|---------------------|---------------|-------------------|
| RV10-22 | 110 | 240 | Differential Poppet | 3/8"-1/2" | \$ 235.00 |
| RV50-22 | 75 | 345* | Differential Poppet | 3/8"-1/2" | \$ 270.00 |
| HS1020P6T, P8T manifold only \$102.00 | | | | | |

- Manifold dimensions, 75 x 55 x 40mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

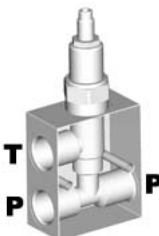
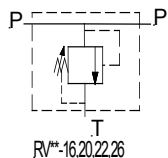
HS1020P8N, P12N



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|-----------------------------------|---------------|-------------------|
| RV10-23 | 115 | 240 | Pilot-Operated | 1/2"-3/4" | \$ 267.00 |
| RV10-26 | 115 | 240 | Pilot-Operated | 1/2"-3/4" | \$ 254.00 |
| RV10-28 | 115 | 240 | Pilot-Op./Free Rev. | 1/2"-3/4" | \$ 270.00 |
| RV50-26 | 115 | 345* | Pilot-Operated | 1/2"-3/4" | \$ 270.00 |
| RVPP-10 | 100 | 345* | Pilot-Op./Free Rev. Anti-Cav** | 1/2"-3/4" | \$ 282.00 |
| RVD50-20 | 115 | 350* | Poppet, low pressure rise | 1/2"-3/4" | \$ 322.00 |
| HS1020P8N or P12N, manifold only \$ 102.00 or \$ 127.00 | | | | | |

- Manifold dimensions, 80 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing
- ** Consult Hyspecs for anti-cav performance

HS1220P12N



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|----------------|---------------|-------------------|
| RV12-26 | 185 | 207 | Pilot-Operated | 3/4" | \$ 396.00 |
| RV52-26 | 185 | 345* | Pilot-Operated | 3/4" | \$ 426.00 |
| HS1220P12N manifold only \$ 166.00 | | | | | |

- Manifold dimensions, 90 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

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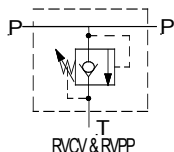
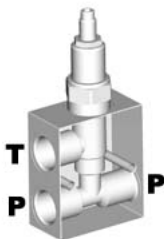
RELIEF VALVES

3-PORT RELIEF VALVES

Click on individual cartridges for more info



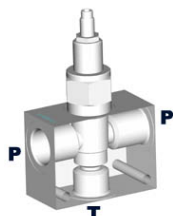
HS1221P12N



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-----------------------------------|---------------|----------------|
| RVPP-12 | 227 | 350* | Pilot-Op./Free Rev. Anti-Cav** | 3/4" | \$ 456.00 |
| HS1221P12N manifold only \$ 166.00 | | | | | |

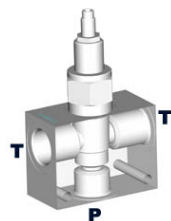
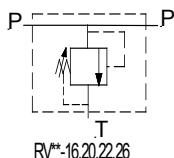
- Manifold dimensions, 90 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing
- ** Consult Hyspecs for anti-cav performance

HS1620P12T, P16T



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|---------------------|---------------|----------------|
| RV3-16 | 300 | 345* | Differential Poppet | 3/4" - 1" | \$ 482.00 |
| HS1620P12T or P16T manifold only \$ 212.00 or \$ 223.00 | | | | | |

- Manifold dimensions, 100 x 80 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|--------------------|---------------|----------------|
| RV16-26 | 300 | 240 | Pilot-Operated | 3/4" - 1" | \$ 473.00 |
| RV5-16 | 300 | 345* | Pilot-Operated | 3/4" - 1" | \$ 503.00 |
| RV56-26 | 380 | 350* | Pilot Operated | 3/4" - 1" | \$ 517.00 |
| RVCV56-20 | 115 | 420* | Direct act. Poppet | 3/4" - 1" | \$ 477.00 |
| HS1620P12T or P16T manifold only \$ 212.00 or \$ 223.00 | | | | | |

- Manifold dimensions, 100 x 80 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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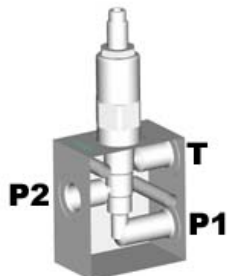
RELIEF VALVES

2-PORT CROSS LINE RELIEF VALVES

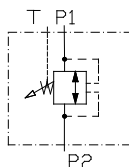
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HS0830P6

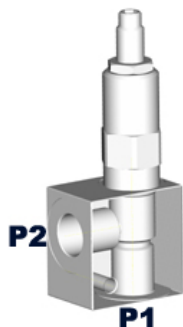


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|----------------------------------|----------------|--------------|--|---------------|-------------------|
| CR08-38 | 30 | 205 | Differential poppet, Bi-directional with vented spring chamber | 3/8" | \$ 287.00 |
| HS0830P6 manifold only \$ 127.00 | | | | | |

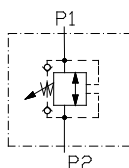


- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

HS1020P8



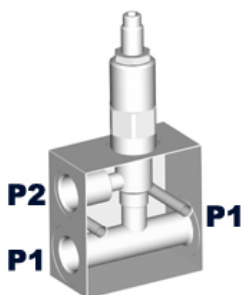
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------|----------------|--------------|---------------------|---------------|-------------------|
| RVBD-10 | 76 | 345* | Differential poppet | 1/2" | \$ 271.00 |
| CR10-28 | 60 | 240 | Differential poppet | 1/2" | \$ 350.00 |
| HS1020P8 manifold only \$ 86.00 | | | | | |



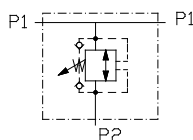
- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs for pricing*

3-PORT CROSS LINE RELIEF VALVES

HS1020P8N or P12N



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---------------------|---------------|-------------------|
| RVBD-10 | 76 | 345* | Differential poppet | 1/2"-3/4" | \$ 287.00 |
| CR10-28 | 60 | 240 | Differential poppet | 1/2"-3/4" | \$ 366.00 |
| HS1020P8N or P12N manifold only \$ 102.00 or \$ 127.00 | | | | | |



- Manifold dimensions, 80 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs for pricing*

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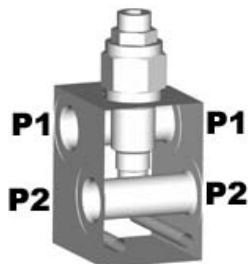
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RELIEF VALVES

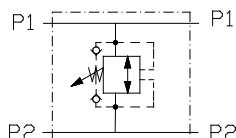
4-PORT CROSS LINE RELIEF VALVES

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HS1020P8F or 12F or 12FS

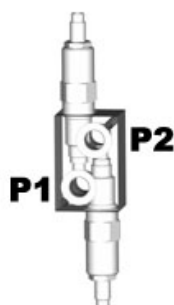


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price P8 |
|--|----------------|--------------|---------------------|---------------|----------------------|
| RVBD-10 | 76 | 345* | Differential poppet | 1/2"-3/4" | \$ 312.00 |
| CR10-28 | 60 | 240 | Differential poppet | 1/2"-3/4" | \$ 391.00 |
| HS1020P8F or 12F or 12FS manifold only \$ 127.00 or \$ 200.00 or \$ 264.00 | | | | | |

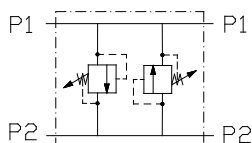


- Manifold dimensions, 76 x 60 x 50mm for 1/2" and 75 x 75 x 50mm for 3/4" (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS1020P6X

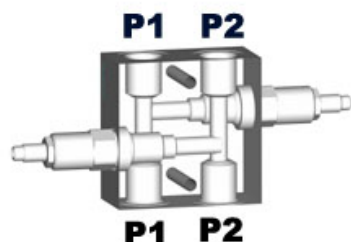


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---------------------------|---------------|-------------------|
| RV10-20* x 2 | 38 | 228 | Direct acting poppet | 3/8" | \$ 426.00 |
| RVD50-20 x 2 | 115 | 350** | Poppet, low pressure rise | 3/8" | \$ 600.00 |
| HS1020P6X manifold only \$ 160.00 | | | | | |

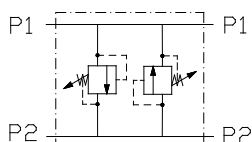


- Manifold dimensions, 75 x 50 x 37mm (excluding cartridge)
- * With option C double back-up ring seal
- ** Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS1020P8Y or P12Y



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|---------------------------|---------------|-------------------|
| RV10-20* x 2 | 38 | 240 | Direct acting poppet | 1/2"-3/4" | \$ 466.00 |
| RV10-22* x 2 | 110 | 240 | Differential poppet | 1/2"-3/4" | \$ 466.00 |
| RV10-23 x 2 | 114 | 240 | Pilot-operated | 1/2"-3/4" | \$ 530.00 |
| RVD50-20 x 2 | 115 | 350** | Poppet, low pressure rise | 1/2"-3/4" | \$ 640.00 |
| HS1020P8Y or P12Y manifold only \$ 200.00 | | | | | |



- Manifold dimensions, 100 x 100 x 50mm (excluding cartridge)
- * With option C double back-up ring seal
- ** Requires steel block over 280 bar – *contact Hyspecs* for pricing

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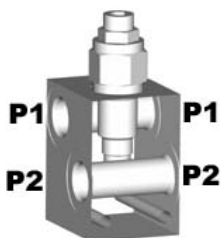
RELIEF VALVES

4-PORT CROSS LINE RELIEF VALVES

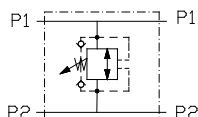
Click on individual cartridges for more info



HS1220P12F or 12FS

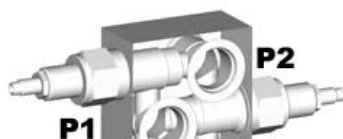


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---------------------|---------------|-------------------|
| RVBD-12 | 152 | 350* | Differential poppet | 3/4" | \$ 490.00 |
| HS1220P12F manifold only \$ 200.00 | | | | | |

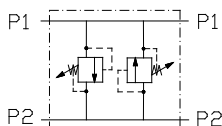


- Manifold dimensions, 110 x 75 x 60mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS1620U21X



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|---------------------|--------------|-------------------|
| RV3-16 x 2 | 300 | 345* | Differential poppet | 1 5/16" | \$ 882.00 |
| RV5-16 x 2 | 300 | 345* | Pilot-operated | 1 5/16" | \$ 924.00 |
| HS1620U21X manifold only \$ 342.00 | | | | | |

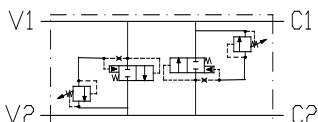


- Manifold dimensions, 110 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS6457P16D

CONTACT HYSPECS

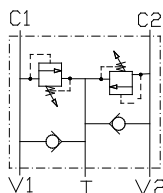
| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|--|---------------|-------------------|
| EV20-S34 x 2 +RV08-20 x 2 | 380 | 240 | Vented logic element operated by direct acting poppet relief | 1" | \$ P.O.A. |
| HS6457P16D manifold only \$ P.O.A. | | | | | |



- Manifold dimensions, 180 x 90 x 60mm (excluding cartridge)

5-PORT CROSS LINE RELIEF VALVES

HS1020P8W



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|------------------------------|---------------|-------------------|
| RV10-20 x 2 +CV10-20 x 2 | 38 | 228 | Direct acting poppet | 1/2" | \$ 662.00 |
| RVD50-20 x 2 +CV50-20 x 2 | 56 | 350* | Poppet, low pressure rise | 1/2" | \$ 910.00 |
| HS1020P8W manifold only \$ 286.00 | | | | | |

- Manifold dimensions, 100 x 100 x 40mm (excluding cartridge)
- Consult Hyspecs for anti-cav performance
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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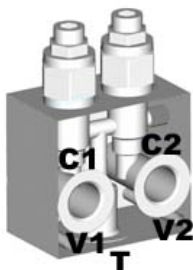
RELIEF VALVES

5-PORT CROSS LINE RELIEF VALVES

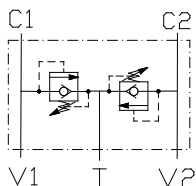
[Click on individual cartridges for more info](#)



HS1020P8ZB or P12ZB or P12ZBS

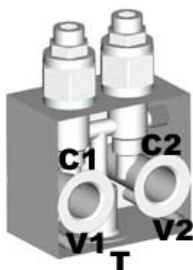


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price P8 |
|---|----------------|--------------|---------------------------------------|---------------|----------------------|
| RVPP-10 x 2 | 100 | 345* | Pilot operated with in-built check | 1/2"-3/4" | \$ 538.00 |
| HS1020P8ZB or P12ZB or P12ZBS manifold only \$ 178.00, \$ 207.00, \$ 315.00 | | | | | |

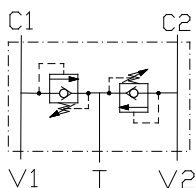


- Manifold dimensions, 80 x 75 x 50mm for P8 and 100 x 75 50mm for P12 (excluding cartridges)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing
- Consult Hyspecs for anti-cav performance

HS1220P12ZB

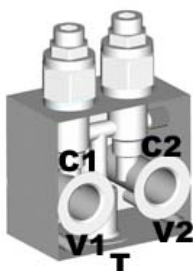


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price P8 |
|-------------------------------------|----------------|--------------|---------------------------------------|---------------|----------------------|
| RVPP-12 x 2 | 227 | 350* | Pilot operated with in-built check | 3/4" | \$ 892.00 |
| HS1220P12ZB manifold only \$ 312.00 | | | | | |

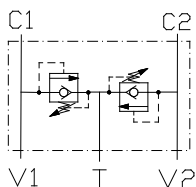


- Manifold dimensions 115 x 100 x 48mm (excluding cartridges)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing
- Consult Hyspecs for anti-cav performance

HS1620P16ZBS



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price P8 |
|--------------------------------------|----------------|--------------|-----------------------------------|---------------|----------------------|
| RVCV56-20 x 2 | 115 | 420* | Direct acting with in-built check | 1" | \$ 1050.00 |
| HS1620P16ZBS manifold only \$ 520.00 | | | | | |



- Manifold dimensions 135 x 100 x 50mm (excluding cartridges)
- Consult Hyspecs for anti-cav performance

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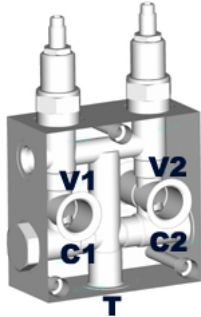
RELIEF VALVES

5-PORT CROSS LINE RELIEF VALVES

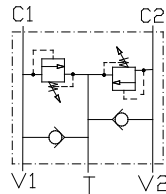
[Click on individual cartridges for more info](#)



HS1220P12W or P16W

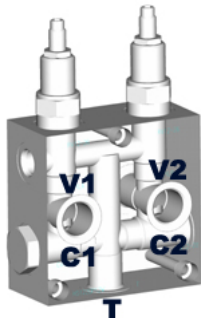


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------|---------------|-------------------|
| RV12-26 x 2 +CV12-20 x 2 | 150 | 207 | Pilot-operated | 3/4"-1" | \$ 1182.00 |
| HS1220P12W or P16W manifold only \$ 504.00 | | | | | |

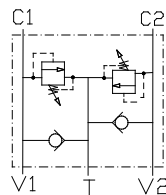


- Manifold dimensions, 130 x 115 x 50mm (excluding cartridge)
- Consult Hyspecs for anti-cav performance

HS1620P16WS



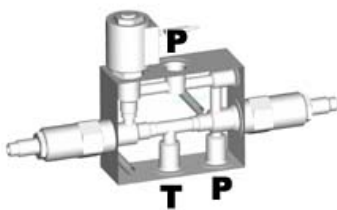
| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|----------------|---------------|-------------------|
| RV56-26 X 2 +CV11-16 | 300 | 350 | Pilot-operated | 1" | \$ 1991.00 |
| HS1620P16WS manifold only \$ 845.00 | | | | | |



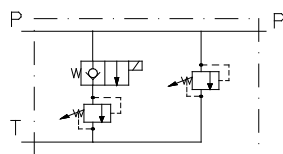
- Manifold dimensions, 150 x 150 x 70mm (excluding cartridge)
- Consult Hyspecs for anti-cav performance

2 STAGE RELIEF – SOLENOID CONTROLLED

HS6129P6CE



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| RV08-22 x 2 + SV08-20 | 30 | 207 | High pressure start, 12 or 24 VDC, 115 or 230 VAC | 3/8" | \$ 629.00 |
| RV08-22 x 2 + SV08-21 | 30 | 207 | Low pressure start, 12 or 24 VDC, 115 or 230 VAC | 3/8" | \$ 664.00 |
| HS6129P6CE manifold only \$ 242.00 | | | | | |



- Manifold dimensions, 99 x 80 x 39mm (excluding cartridge)

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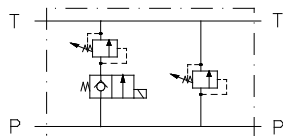
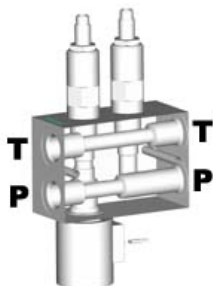
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RELIEF VALVES

2 STAGE RELIEF – SOLENOID CONTROLLED *Click on individual cartridges for more info*

HS6165P8CE



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|---|--------------|-------------------|
| RV10-26 x 2 + SV10-20 | 60 | 207 | High pressure start, 12 or 24 VDC, 115 or 230 VAC | 1 1/16" | \$ 788.00 |
| RV10-26 x 2 + SV10-21 | 70 | 207 | Low pressure start, 12 or 24 VDC, 115 or 230 VAC | 1 1/16" | \$ 827.00 |
| HS6165P8CE manifold only \$ 300.00 | | | | | |

- Manifold dimensions, 115 x 100 x 60mm (excluding cartridge)

VENTABLE RELIEF VALVES

1.HS6139P16B
2.HS6001P12A
3.HS6002P16A

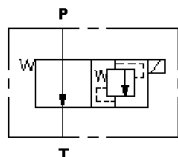
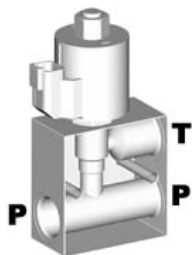
CONTACT HYSPECS

| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| 1. EV20-S34 + RV58-20 | 380 | 345* | Vented logic element, pilot by direct acting | 1"+ | \$ P.O.A. |
| 2. 1VR100-P | 100 | 350* | Pilot operated, remote controllable | 3/4" | \$ P.O.A. |
| 3. 1VR200-P | 200 | 350* | Pilot operated, remote controllable | 1" | \$ P.O.A. |
| HS6139P16B, HS6001P12A or HS6002P16A manifold only \$ P.O.A. | | | | | |

- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

SOLENOID VENTABLE

HS1020P8N



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------|----------------|--------------|--|---------------|-------------------|
| SVRV10-26 | 57 | 275 | Fully ventable, <u>normally open</u> , 12 or 24 VDC, 115 or 230 VAC | 3/8"-1/2" | \$ 342.00 |
| P8N manifold only \$ 102.00 | | | | | |

- Manifold dimensions, 80 x 75 x 37mm (excluding cartridge)

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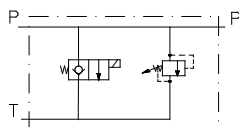
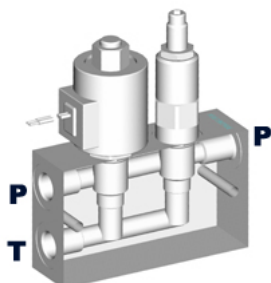
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RELIEF VALVES

SOLENOID VENTABLE

HS6186P8BE



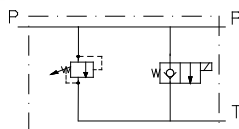
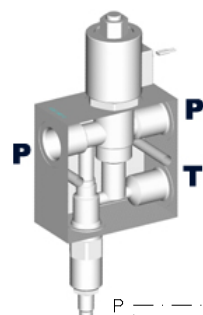
Click on individual cartridges for more info



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|--|---------------|-------------------|
| RV10-22 + SV10-20 | 110 | 207 | Vents max 60 l/min, <u>normally closed</u> , 12 or 24 VDC, 115 or 230 VAC | 1/2" | \$ 522.00 |
| RV10-22 + SV10-21 | 110 | 207 | Vents max 70 l/min, <u>normally open</u> , 12 or 24 VDC, 115 or 230 VAC | 1/2" | \$ 522.00 |
| HS6186P8BE manifold only \$ 205.00 | | | | | |

- Manifold dimensions, 125 x 75 x 37mm (excluding cartridge)

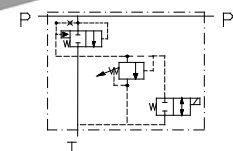
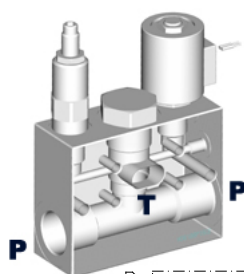
HS6194P12BE



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|---|---------------|-------------------|
| RV10-28 + SV16-20 | 115 | 207 | Full ventable, <u>normally closed</u> , 12 or 24 VDC, 115 or 230 VAC | 3/4" | \$ 779.00 |
| RV10-28 + SV16-21 | 115 | 207 | Full ventable, <u>normally open</u> , 12 or 24 VDC, 115 or 230 VAC | 3/4" | \$ 811.00 |
| HS6194P12BE manifold only \$ 264.00 | | | | | |

- Manifold dimensions, 100 x 100 x 50mm (excluding cartridge)

HS6188P12CE or P16CE



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| EV16-S34 + RV10-22 + SV10-24 | 190 | 207 | Vented logic, Pil. Op. by Dif. P, <u>normally closed</u> , 12 or 24 VDC, 115 or 230 VAC | 3/4" or 1" | \$ 831.00 |
| EV16-S34 + RV10-22 + SV10-25 | 190 | 207 | Vented logic, Pil. Op. by Dif. P, <u>normally open</u> , 12 or 24 VDC, 115 or 230 VAC | 3/4" or 1" | \$ 844.00 |
| HS6188P12CE or P16CE manifold only \$ 327.00 | | | | | |

- Manifold dimensions, 125 x 100 x 50mm (excluding cartridge)

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RELIEF VALVES

S.A.E. PAD MOUNTED

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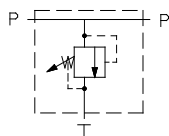
HS7302P8A (For pump or cylinder with SAE 1/2" pad mounting)



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---------------|---------------|-------------------|
| RV10-20 | 38 | 240 | Direct Acting | 1/2" | \$ 309.00 |
| HS7302P8A manifold only \$ 176.00 | | | | | |

- Manifold dimensions, 75 x 55 x 37mm (excluding cartridge)

HS7303P12B (For pump or cylinder with SAE 3/4" pad mounting)



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|----------------|---------------|-------------------|
| RV10-26 | 115 | 240 | Pilot-Operated | 3/4" | \$ 339.00 |
| RVD50-20 | 115 | 350* | Poppet type | 3/4" | \$ 355.00 |
| HS7303P12B manifold only \$ 187.00 | | | | | |

- Manifold dimensions, 80 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS7304P16C (For pump or cylinder with SAE 1" pad mounting)



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|----------------|---------------|-------------------|
| RV12-26 | 185 | 240 | Pilot-Operated | 3/4" | \$ 417.00 |
| RV52-26 | 185 | 350* | Pilot-Operated | | \$ 447.00 |
| HS7304P16C manifold only \$ 187.00 | | | | | |

- Manifold dimensions, 100 x 80 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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RELIEF VALVES

EUROPEAN PAD MOUNTED

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HS6710U7A (For group 1 gear pumps with 26mm PCD pad mounted pressure ports)



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--------------------|---------------|-------------------|
| RV08-20 | 22 | 228 | Direct act. Poppet | 3/8" | \$ 251.00 |
| HS6710U7A manifold only \$ 132.00 | | | | | |

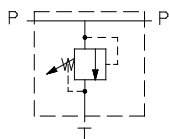
- Manifold dimensions, 75 x 46 x 37mm (excluding cartridge)

HS6711A (For group 1 & 2 gear pumps with 30mm PCD pad mounted pressure ports)

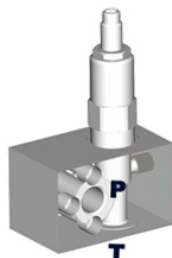


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--------------------|---------------|-------------------|
| RV08-20 | 22 | 228 | Direct act. Poppet | 3/8" | \$ 251.00 |
| HS6711P6A manifold only \$ 132.00 | | | | | |

- Manifold dimensions, 70 x 46 x 40mm (excluding cartridge)



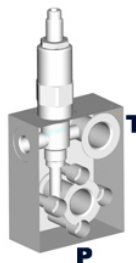
HS6713P6B (For group 1 & 2 gear pumps with 30mm PCD pad mounted pressure ports)



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---------------------|---------------|-------------------|
| RV10-22 | 110 | 240 | Differential Poppet | 3/8" | \$ 333.00 |
| HS6713P6B manifold only \$ 200.00 | | | | | |

- Manifold dimensions, 80 x 50 x 50mm (excluding cartridge)

HS6716P8C (For group 3 gear pumps with 40mm PCD pad mounted pressure ports)



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|----------------|---------------|-------------------|
| RV10-26 | 115 | 240 | Pilot-Operated | 1/2" | \$ 364.00 |
| RV10-23 | 115 | 240 | Pilot-Operated | 1/2" | \$ 377.00 |
| HS6716P8C manifold only \$ 212.00 | | | | | |

- Manifold dimensions, 95 x 75 x 37mm (excluding cartridge)

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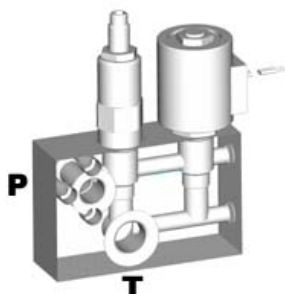
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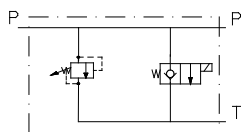
RELIEF VALVES

EUROPEAN PAD MOUNTED *Click on individual cartridges for more info*

HS6714P6AE (For group 1 & 2 gear pumps with European style pad mounted pressure ports)

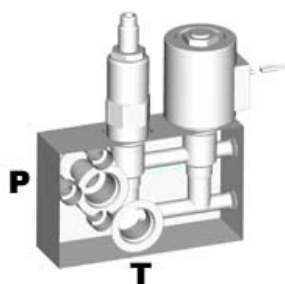


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---------------------------------------|---------------|----------------|
| RV10-22 + SV10-20 | 110 | 207 | Normally closed, vents at 60 l/min | 3/8" | \$ 598.00 |
| RV10-22 + SV10-21 | 110 | 207 | Normally open, vents at 70 l/min | 3/8" | \$ 637.00 |
| HS6714P6AD manifold only \$ 281.00 | | | | | |

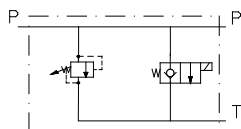


- Manifold dimensions, 115 x 75 x 37mm (excluding cartridge)

HS6719U14CE (For group 3 gear pumps with European style pad mounted pressure ports)



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|---------------------------------------|--------------|----------------|
| RV10-22 + SV10-20 | 110 | 207 | Normally closed, vents at 60 l/min | 7/8" | \$ 617.00 |
| RV10-22 + SV10-21 | 110 | 207 | Normally open, vents at 70 l/min | 7/8" | \$ 656.00 |
| HS6719U14CE manifold only \$ 300.00 | | | | | |



- Manifold dimensions, 120 x 75 x 37mm (excluding cartridge)

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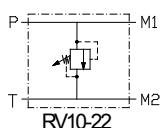
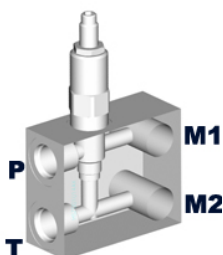
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RELIEF VALVES

BANJO BOLT MOUNTED - SINGLE RELIEF *Click on individual cartridges for more info*



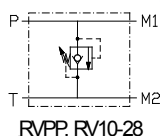
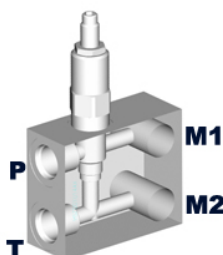
HS7001U14A (for Char-Lynn H, S & T Series)



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|---|--------------|-------------------|
| RV10-22 | 110 | 240 | 1.8" centre, 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 409.00 |
| RV10-28 | 100 | 240 | 1.8" centre, 7/8" banjo bolts (BB-14L x 2) Free-reverse flow for anti-cavitation | 7/8" | \$ 444.00 |
| RVPP-10 | 100 | 345* | 1.8" centre, 7/8" banjo bolts (BB-14L x 2) Free-reverse flow for anti-cavitation | 7/8" | \$ 456.00 |
| HS7001U14A manifold only \$ 184.00 | | | | | |

- Example is for RV10-22, Swap P & T for RVPP-10
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing
- Manifold dimensions, 99 x 80 x 39mm (excluding cartridge)

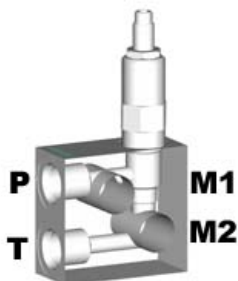
HS7007U14L (For 2" Centre Motors)



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|--|--------------|-------------------|
| RV10-22 | 110 | 240 | 2" centre, 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 409.00 |
| RV10-28 | 100 | 240 | 2" centre, 7/8" banjo bolts (BB-14L x 2) Free-reverse flow for anti-cavitation | 7/8" | \$ 444.00 |
| RVPP-10 | 100 | 345* | 2" centre, 7/8" banjo bolts (BB-14L x 2), Free-reverse flow for anti-cavitation | 7/8" | \$ 456.00 |
| HS7007U14L manifold only \$ 184.00 | | | | | |

- Example is for RV10-22, Swap P & T for RVPP-10
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing
- Manifold dimensions, 99 x 80 x 39mm (excluding cartridge)

HS7013U14C (For Char-Lynn 2000 Series)



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|-------------------------------|--------------|-------------------|
| RV10-22 | 110 | 240 | 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 425.00 |
| RV10-28 | 100 | 240 | 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 460.00 |
| RVPP-10 | 100 | 345* | 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 472.00 |
| HS7013U14C manifold only \$ 200.00 | | | | | |

- Manifold dimensions 80 x 75 x 37mm (excluding cartridge)

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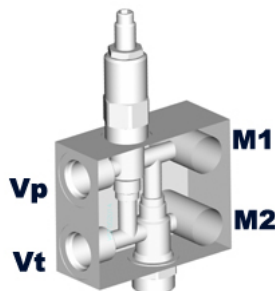
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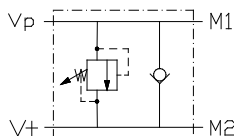
RELIEF VALVES

BANJO BOLT MOUNTED - SINGLE RELIEF + ANTI-CAV. CHECK

HS7002U14AX (for Char-Lynn H, S & T Series) *Click on individual cartridges for more info*

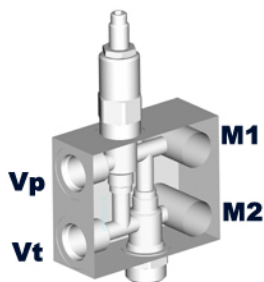


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|--|--------------|-------------------|
| RV10-22 + CV10-23 | 110 | 240 | 1.8" centre, 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 501.00 |
| HS7002U14AX manifold only \$ 212.00 | | | | | |

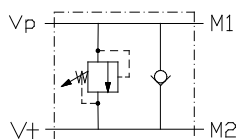


- Manifold dimensions, 99 x 80 x 39mm (excluding cartridge)
- Consult Hyspecs for anti-cav performance

HS7008U14LX (For 2" Centre Motors)

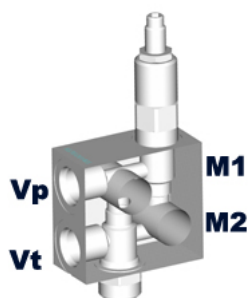


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|--|--------------|-------------------|
| RV10-22 + CV10-23 | 110 | 240 | 2" centre, 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 501.00 |
| HS7008U14LX manifold only \$ 212.00 | | | | | |

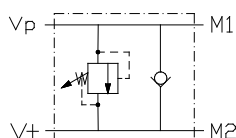


- Manifold dimensions, 100 x 90 x 39mm (excluding cartridge)
- Consult Hyspecs for anti-cav performance

HS7012U14CX (for Char-Lynn 2000 Series)



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|-------------------------------|--------------|-------------------|
| RV10-22 + CV10-23 | 110 | 240 | 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 512.00 |
| HS7012U14CX manifold only \$ 223.00 | | | | | |



- Manifold dimensions, 80 x 75 x 40mm (excluding cartridge)
- Consult Hyspecs for anti-cav performance

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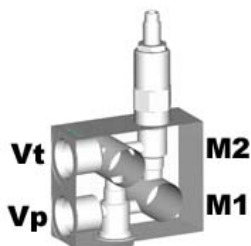
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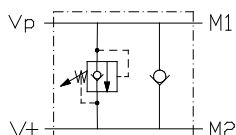
RELIEF VALVES

BANJO BOLT MOUNTED - SINGLE RELIEF + ANTI-CAV. CHECK

HS7022U17EX (for Char-Lynn 4000 Series) *Click on individual cartridges for more info*

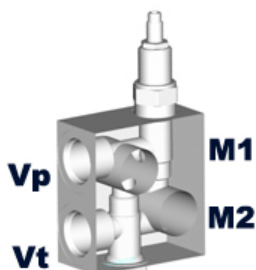


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|-------------------------------------|--------------|-------------------|
| RV10-28 + CV10-20 | 115 | 240 | 1 1/16" banjo bolts (BB-17H x 2) | 1 1/16" | \$ 607.00 |
| HS7022U17EX manifold only \$ 252.00 | | | | | |

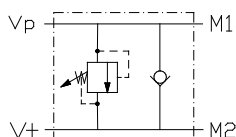


- Manifold dimensions, 99 x 80 x 39mm (excluding cartridge)
- Consult Hyspecs for anti-cav performance

HS7034U21GX (for Char-Lynn 6000 Series)

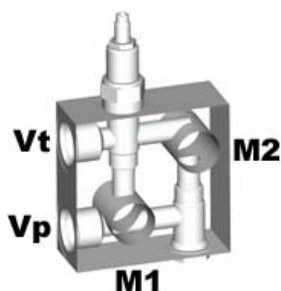


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|-------------------------------------|--------------|-------------------|
| RV12-26 + CV12-20 | 185 | 240 | 1 5/16" banjo bolts (BB-21L x 2) | 1 5/16" | \$ 842.00 |
| HS7034U21GX manifold only \$ 293.00 | | | | | |

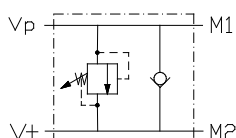


- Manifold dimensions, 110 x 100 x 50mm (excluding cartridge)
- Consult Hyspecs for anti-cav performance

HS7044U21IX (for Char-Lynn 10000 Series)



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|-------------------------------------|--------------|-------------------|
| RV12-26 + CV12-20 | 185 | 240 | 1 5/16" banjo bolts (BB-21L x 2) | 1 5/16" | \$ 944.00 |
| HS7044U21IX manifold only \$ 395.00 | | | | | |



- Manifold dimensions, 125 x 125 x 50mm (excluding cartridge)
- Consult Hyspecs for anti-cav performance

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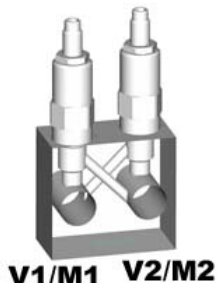
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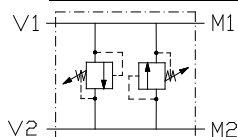
RELIEF VALVES

BANJO BOLT MOUNTED – DUAL RELIEF (CROSS LINE)

HS7003U14AX (for Char-Lynn H, S & T Series) *Click on individual cartridges for more info*

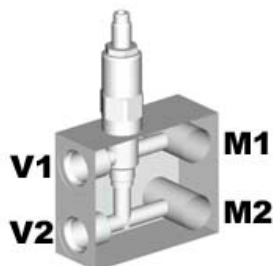


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|---|---------------------|-------------------|
| RV08-20 x 2 | 22 | 228 | 1.8" centre, 7/8" ported banjo bolts (BB-14T x 2) | 7/8" on banjo bolts | \$ 492.00 |
| HS7003U14AX manifold only \$ 140.00 | | | | | |

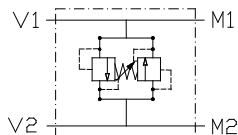


- Manifold dimensions, 80 x 75 x 39mm (excluding cartridge)

HS7001U14A (for Char-Lynn H, S & T Series)

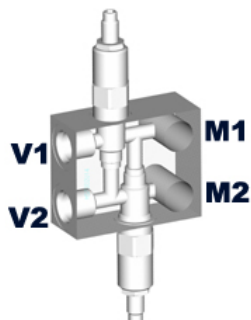


| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|--|--------------|-------------------|
| RVBD-10 | 75 | 350* | 1.8" centre, 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 460.00 |
| CR10-28 | 60 | 240 | 1.8" centre, 7/8" banjo bolts (BB-14L x 2), factory preset | 7/8" | \$ 474.00 |
| HS7001U14A manifold only \$ 184.00 | | | | | |

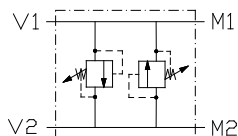


- Manifold dimensions, 99 X 80 X 39mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS7002U14AX (for Char-Lynn H, S & T Series)



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|--|--------------|-------------------|
| RV10-22 x 2 | 110 | 240 | 1.8" centre, 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 570.00 |
| RV10-23 X 2 | 115 | 240 | 1.8" centre, 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 634.00 |
| HS7002U14AX manifold only \$ 212.00 | | | | | |



- Manifold dimensions, 99 x 80 x 39mm (excluding cartridge)

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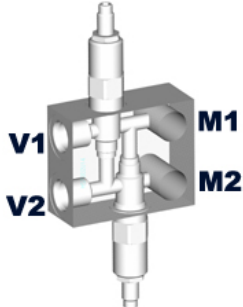
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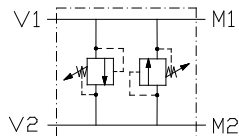
RELIEF VALVES

BANJO BOLT MOUNTED – DUAL RELIEF (CROSS LINE)

HS7008U14LX (For 2" Centre Motors) *Click on individual cartridges for more info*

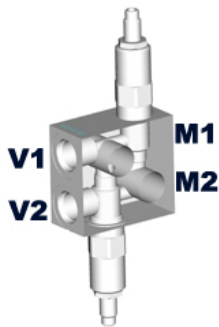


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|--|--------------|-------------------|
| RV10-22 x 2 | 110 | 240 | 2" centre, 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 570.00 |
| RV10-23 x 2 | 115 | 240 | 2" centre, 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 634.00 |
| HS7008U14LX manifold only \$ 212.00 | | | | | |

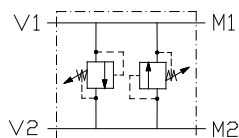


- Manifold dimensions, 99 x 90 x 39mm (excluding cartridge)

HS7012U14CX (for Char-Lynn 2000 Series)

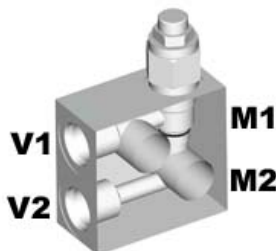


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|-------------------------------|--------------|-------------------|
| RV10-22 x 2 | 110 | 240 | 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 581.00 |
| RV10-23 x 2 | 115 | 240 | 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 645.00 |
| HS7012U14CX manifold only \$ 223.00 | | | | | |

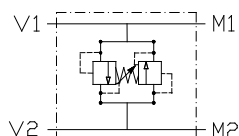


- Manifold dimensions, 80 x 75 x 39mm (excluding cartridge)

HS7013U14C (for Char-Lynn 2000 Series)



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|---|--------------|-------------------|
| RVBD-10 | 75 | 350* | 7/8" banjo bolts (BB-14L x 2) | 7/8" | \$ 477.00 |
| CR10-28 | 60 | 240 | 7/8" banjo bolts (BB-14L x 2), factory preset | 7/8" | \$ 486.00 |
| HS7013U14C manifold only \$ 200.00 | | | | | |



- Manifold dimensions, 80 x 75 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs for pricing*

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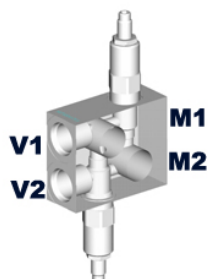
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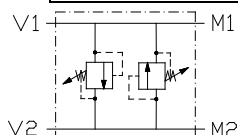
RELIEF VALVES

BANJO BOLT MOUNTED – DUAL RELIEF (CROSS LINE)

HS7022U17EX (for Char-Lynn 4000 Series) [Click on individual cartridges for more info](#)

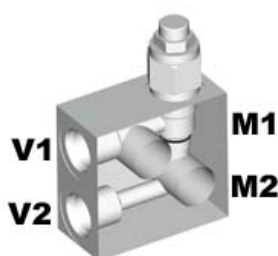


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|-------------------------------------|--------------|-------------------|
| RV10-23 x 2 | 115 | 240 | 1 1/16" banjo bolts (BB-17H x 2) | 1 1/16" | \$ 714.00 |
| HS7022U17EX manifold only \$ 252.00 | | | | | |

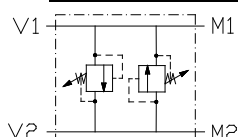


- Manifold dimensions, 99 x 80 x 39mm (excluding cartridge)

HS7033U21GX (for Char-Lynn 6000 Series)

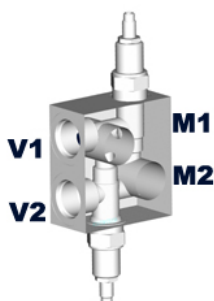


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|-------------------------------------|--------------|-------------------|
| RVBD-12 | 152 | 350* | 1 5/16" banjo bolts (BB-21L x 2) | 1 5/16" | \$ 785.00 |
| HS7033U21GX manifold only \$ 285.00 | | | | | |

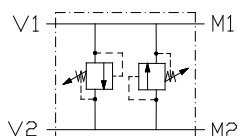


- Manifold dimensions, 110 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS7035U21GX (for Char-Lynn 6000 Series)

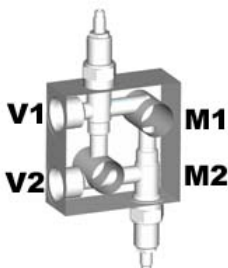


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|-------------------------------------|--------------|-------------------|
| RV11-12 x 2 | 190 | 350* | 1 5/16" banjo bolts (BB-21L x 2) | 1 5/16" | \$ 891.00 |
| HS7035U21GX manifold only \$ 293.00 | | | | | |

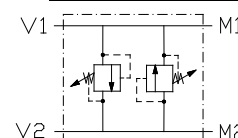


- Manifold dimensions, 110 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS7045U21IX (for Char-Lynn 10000 Series)



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|-------------------------------------|--------------|-------------------|
| RV11-12 x 2 | 190 | 350* | 1 5/16" banjo bolts (BB-21L x 2) | 1 5/16" | \$ 993.00 |
| HS7044U21IX manifold only \$ 395.00 | | | | | |



- Manifold dimensions, 125 x 125 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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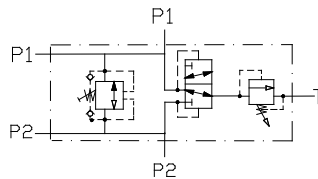
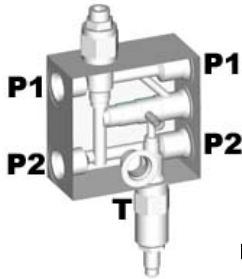
RELIEF VALVES



CROSS LINE WITH FLUSHING – HYDROSTATIC TRANSMISSION

HS6451U14C

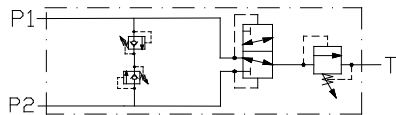
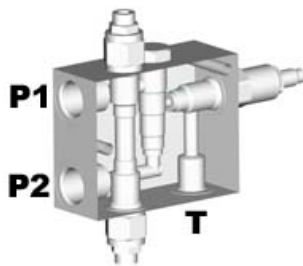
Click on individual cartridges for more info



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|-------------------|--------------|-------------------|
| RVBD-10 + RV08-20 + HS50-42 | 80 | 345* | 22 l/min flushing | 7/8"-3/4" | \$ 979.00 |
| HS6451U14C manifold only \$ 418.00 | | | | | |

- Manifold dimensions, 105 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

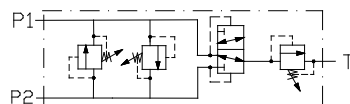
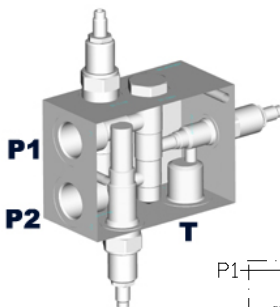
HS6452P12D



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| RV10-28 x 2 + RV10-20 + HS50-42 | 115 | 240 | 38 l/min flushing | 3/4" | \$ 1110.00 |
| RVPP-10 x 2 + RV10-20 + HS50-42 | 100 | 345* | 38 l/min flushing | 3/4" | \$ 1134.00 |
| HS6452P12D manifold only \$ 384.00 | | | | | |

- Manifold dimensions, 130 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS6454P16D



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|--------------------|---------------|-------------------|
| RV11-12 x 2 + RV10-26 + HS52-42 | 185 | 240 | 115 l/min flushing | 1" | \$ 1591.00 |
| HS6454P16D manifold only \$ 521.00 | | | | | |

- Manifold dimensions, 170 x 130 x 60mm (excluding cartridge)

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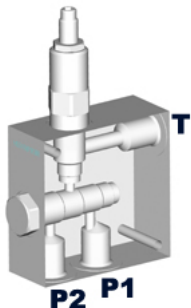
RELIEF VALVES

FLUSHING VALVES

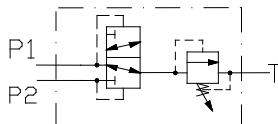
Click on individual cartridges for more info



HS9168P8BR

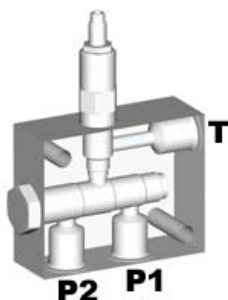


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|--------------------|---------------|-------------------|
| HS50-42 + RV10-20 | 38 | 345* | Steel block option | 1/2" | \$ 602.00 |
| HS9168P8BR manifold only \$ 212.00 | | | | | |

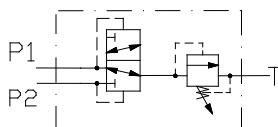


- Manifold dimensions, 100 x 100 x 40mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS9169P12BR



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|--------------------|---------------|-------------------|
| HS52-42 + RV10-26 | 115 | 345* | Steel block option | 3/4" | \$ 914.00 |
| HS9169P12BR manifold only \$ 304.00 | | | | | |



- Manifold dimensions, 125 x 100 x 45mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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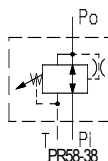
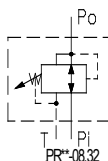
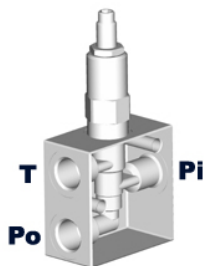
PRESSURE REDUCING VALVES

PRESSURE REDUCING AND RELIEVING VALVES



HS0830P4 or P6

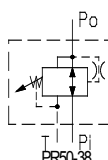
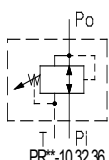
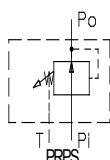
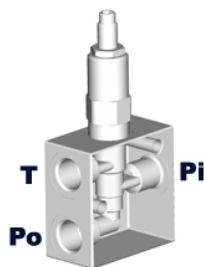
Click on individual cartridges for more info



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| PR08-32 | 11 | 240 | Reducing to 151 bar | 1/4"-3/8" | \$ 279.00 |
| PR58-38 | 19 | 345* | Internal damping for enhanced stability | 1/4"-3/8" | \$ 334.00 |
| PRRS-08 | 23 | 350* | Pilot operated | 1/4"-3/8" | \$ 297.00 |
| HS0830P4 or P6 manifold only \$ 127.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

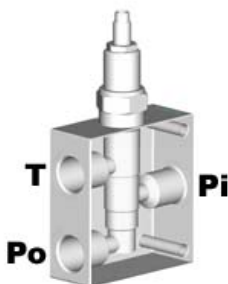
HS1030P6 or P8



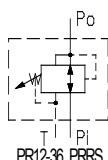
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| PR10-32 | 30 | 207 | Reducing to 145 bar | 3/8"-1/2" | \$ 284.00 |
| PR10-36 | 56 | 207 | Reducing to 207 bar | 3/8"-1/2" | \$ 347.00 |
| PR50-36 | 56 | 345* | Reducing to 345 bar | 3/8"-1/2" | \$ 353.00 |
| PR50-38 | 72 | 345* | Internal damping for enhanced stability | 3/8"-1/2" | \$ 402.00 |
| PRPS-10 | 46 | 350* | Pilot operated, reducing only | 3/8"-1/2" | \$ 312.00 |
| PRRS-10 | 46 | 350* | Pilot operated | 3/8"-1/2" | \$ 312.00 |
| HS1030P6 or P8 manifold only \$ 132.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS1230P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|----------------------------|---------------|-------------------|
| PR12-36 | 189 | 276 | Reducing to 207 bar | 3/4" | \$ 462.00 |
| PRRS-12 | 91 | 350* | Pilot operated, 35-350 bar | 3/4" | \$ 516.00 |
| HS1230P12 manifold only \$ 241.00 | | | | | |



- Manifold dimensions, 99 x 75 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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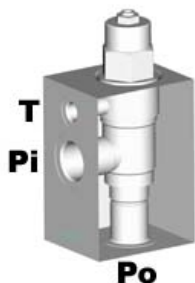
PRESSURE REDUCING VALVES

PRESSURE REDUCING AND RELIEVING VALVES

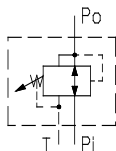


HS4505P12S

Click on individual cartridges for more info

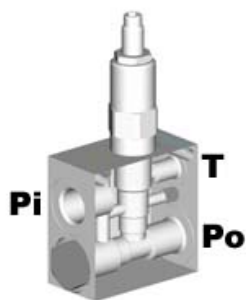


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-------------|---------------|----------------|
| PPHB-LWN | 160 | 345 | Steel block | 3/4" | \$ 1191.00 |
| HS4505P12S manifold only \$ 593.00 | | | | | |

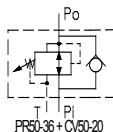
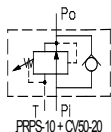


- Manifold dimensions, 110 x 75 x 62mm (excluding cartridge)

HS7501P8BCS (Free reverse flow)

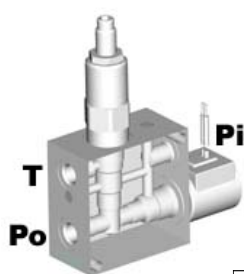


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|--|---------------|----------------|
| PRPS-10 + CV50-20 | 56 | 210 | Free reverse flow, pressure reduce only | 1/2" | \$ 609.00 |
| PR50-36 + CV50-20 | 56 | 345* | High pressure, free reverse flow | 1/2" | \$ 645.00 |
| HS7501P8BCS manifold only \$ 332.00 | | | | | |

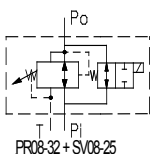
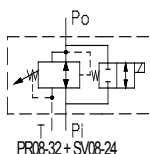


- Manifold dimensions, 75 x 75 x 40mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS7502P4BE (Solenoid By-Pass)



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|----------------------|---------------|----------------|
| PR08-32 + SV08-24 | 11 | 207 | Solenoid by-pass, NC | 1/4" | \$ 735.00 |
| PR08-32 + SV08-25 | 9 | 207 | Solenoid by-pass, NO | 1/4" | \$ 743.00 |
| HS7502P4BE manifold only \$ 436.00 | | | | | |



- Manifold dimensions, 75 x 75 x 40mm (excluding cartridge)

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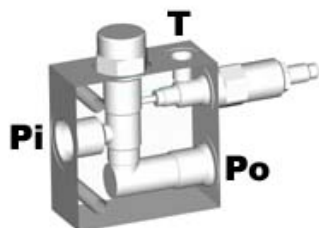
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PRESSURE REDUCING AND RELIEFING VALVES

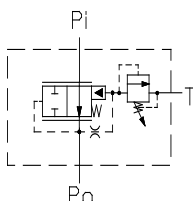


HS7503U17BS

Click on individual cartridges for more info

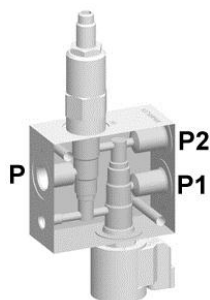


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|----------------|--------------|-------------------|
| ER12-S30 + RV58-20 | 114 | 345* | Pilot operated | 1 1/16" | \$ 588.00 |
| HS7503U17BS manifold only \$ 280.00 | | | | | |



- Manifold dimensions, 100 x 100 x 45mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

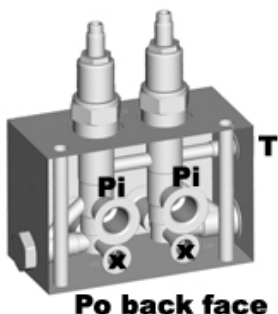
HS7504P6BE



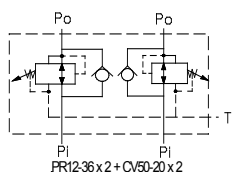
| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|------------------------|--------------|-------------------|
| PR08-32 + SV08-30 | 11 | 207 | With solenoid selector | 3/8" | \$ 851.00 |
| HS7504P6BE manifold only \$ 521.00 | | | | | |

- Manifold dimensions, 85 x 75 x 37mm (excluding cartridge)

HS7512P8DC (Double)



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| PR12-36 x 2 + CV50-20 x 2 | 189** | 276 | Free reverse flow | 1/2"- 3/4" | \$ 1387.00 |
| HS7512P8DC manifold only \$ 761.00 | | | | | |



- Manifold dimensions, 150 x 100 x 75mm (excluding cartridge)
- **Special conditions apply to the flow –*contact Hyspecs*

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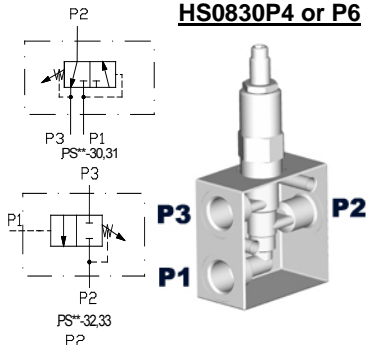
SEQUENCE VALVES

SINGLE SEQUENCE VALVES

Click on individual cartridges for more info



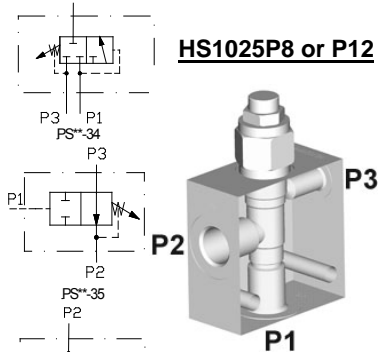
HS0830P4 or P6



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-------------------------|---------------|-------------------|
| PS08-30 | 22 | 240 | Int.pilot & drain, NC | 1/4"-1/2" | \$ 279.00 |
| PS08-32 | 19 | 240 | Ext.pilot/Int.drain, NC | 1/4"-1/2" | \$ 279.00 |
| PS08-35 | 19 | 240 | Ext.pilot/Int.drain, NO | 1/4"-1/2" | \$ 279.00 |
| PSXS-08 | 23 | 350* | Ext.pilot/Int.drain, NC | 1/4"-1/2" | \$ 297.00 |
| HS0830P4 or P6 manifold only \$ 127.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

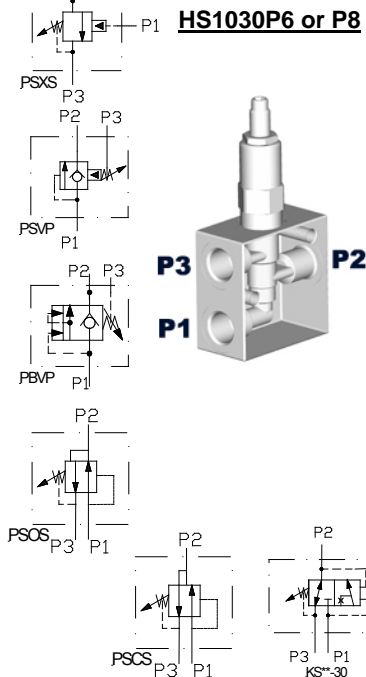
HS1025P8 or P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------------------|----------------------|-------------------|
| PSVP-10 | 76 | 350* | Poppet with check, ext. drain | 1/2"-3/4" 1/4" P3 | \$ 372.00 |
| HLSV-10 | 76 | 350* | Poppet, soft shift, hi-lo, check | 1/2"-3/4" 1/4" P3 | \$ 362.00 |
| PBVP-10 | 76 | 350* | Poppet, check, pressure breaker | 1/2"-3/4" 1/4" P3 | \$ 417.00 |
| HS1025P8 or P12 manifold only \$ 147.00 or \$ 184.00 | | | | | |

- Manifold dimensions, 80 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS1030P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-------------------------|---------------|-------------------|
| PS10-30 | 38 | 207 | Int.pilot & drain, NC | 3/8"-1/2" | \$ 296.00 |
| PS10-31 | 38 | 240 | Int.pilot & drain, NC | 3/8"-1/2" | \$ 296.00 |
| PS10-32 | 38 | 207 | Ext.pilot/Int.drain, NC | 3/8"-1/2" | \$ 296.00 |
| PS10-33 | 22 | 240 | Ext.pilot/Int.drain, NC | 3/8"-1/2" | \$ 296.00 |
| PS10-34 | 56 | 207 | Int.pilot & drain, NC | 3/8"-1/2" | \$ 296.00 |
| PS10-35 | 38 | 207 | Ext.pilot/Int.drain, NO | 3/8"-1/2" | \$ 310.00 |
| PS10-36 | 56 | 240 | Int.pilot/Ext.drain, NC | 3/8"-1/2" | \$ 310.00 |
| PS50-36 | 56 | 345* | Int.pilot/Ext.drain, NC | 3/8"-1/2" | \$ 325.00 |
| KS10-30 | 11 | 207 | Kick-down, Int. pilot | 3/8"-1/2" | \$ 355.00 |
| KS10-31 | 19 | 207 | Kick-down, Int. pilot | 3/8"-1/2" | \$ 355.00 |
| PSXS-10 | 46 | 350* | Ext.pilot/Int.drain, NC | 3/8"-1/2" | \$ 322.00 |
| PSOS-10 | 46 | 350* | Int.pilot/Int.drain, NO | 3/8"-1/2" | \$ 322.00 |
| PSCS-10 | 46 | 350* | Int.pilot/Int.drain, NC | 3/8"-1/2" | \$ 322.00 |
| HS1030P6 or P8 manifold only \$ 132.00 | | | | | |

- Manifold dimensions, 75 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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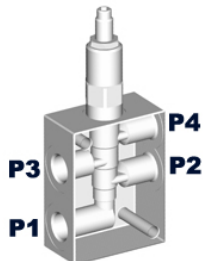
SEQUENCE VALVES

SINGLE SEQUENCE VALVES

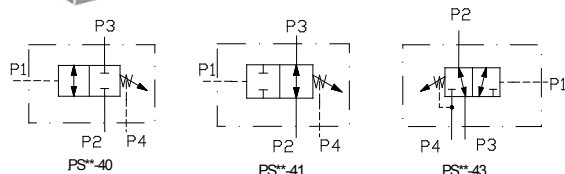
Click on individual cartridges for more info



HS1040P6 or P8

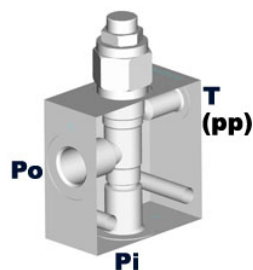


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--------------------------------------|---------------|-------------------|
| PS10-40 | 38 | 240 | Ext.pilot & drain, NC | 3/8"-1/2" | \$ 357.00 |
| PS10-41 | 38 | 240 | Ext.pilot & drain, NO | 3/8"-1/2" | \$ 357.00 |
| PS10-43 | 38 | 240 | Ext.pilot/Int.drain, NO | 3/8"-1/2" | \$ 357.00 |
| PS50-40 | 38 | 345* | Ext.pilot & drain, NC Steel block | 3/8"-1/2" | \$ 373.00 |
| HS1040P6 or P8 manifold only \$ 150.00 | | | | | |

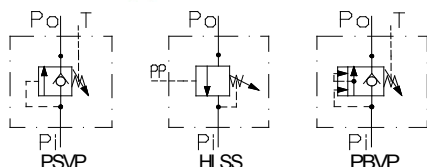


- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

HS1025P8 or P12

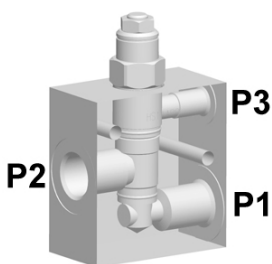


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| PSVP-10 | 76 | 345* | Poppet with free rev. | 1/2"-3/4" | \$ 372.00 |
| HLSS-10 | 76 | 345* | Hi-Lo soft shift | 1/2"-3/4" | \$ 362.00 |
| PBVP-10 | 76 | 345* | Pressure breaker, free reverse flow | 1/2"-3/4" | \$ 417.00 |
| HS1025P8 or P12 manifold only \$ 147.00 or \$ 184.00 | | | | | |

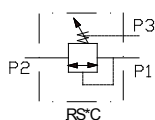


- Manifold dimensions, 80 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

HS11AP8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---------------------------------------|---------------|-------------------|
| RSDC-LWN | 60 | 350* | Internal pilot, external drain, NC | 1/2" | \$ 342.00 |
| HS4504P8A manifold only \$ 147.00 | | | | | |



- Manifold dimensions, 75 x 70 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

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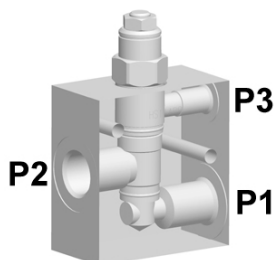
SEQUENCE VALVES

SINGLE SEQUENCE VALVES

Click on individual cartridges for more info

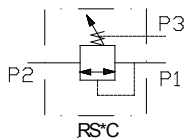


HS2AP12

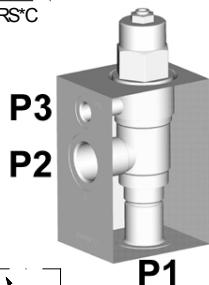


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------|----------------|--------------|---|-----------------|----------------|
| RSFC-LWN | 120 | 350* | Internal pilot, external drain, NC | 3/4" 1/4" P3 | \$ 447.00 |
| SQFB-LWN | 120 | 350* | Internal pilot, external drain, kick-down | 3/4" 1/4" P3 | \$ 507.00 |
| HS2AP12 manifold only \$ 212.00 | | | | | |

- Manifold dimensions, 125 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

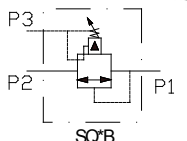


HS4505P12

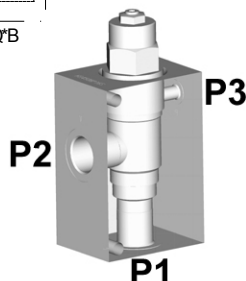


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|------------------------------------|-----------------|----------------|
| RSHC-LWN | 240 | 350* | Internal pilot, external drain, NC | 3/4" 1/4" P3 | \$ 815.00 |
| HS4505P12 manifold only \$ 395.00 | | | | | |

- Manifold dimensions, 110 x 75 x 62.5mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing



HS4506P16S



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|----------------|
| RSJC-LWN | 480 | 350 | Internal pilot, external drain, NC, steel | 1" 1/4" P3 | \$ 1500.00 |
| HS4506P16S manifold only \$ 675.00 | | | | | |

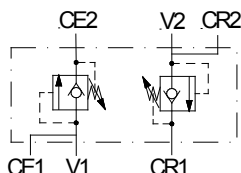
- Manifold dimensions, 150 x 100 x 75mm (excluding cartridge)

DUAL SEQUENCE VALVES

HS7702P8B or P12B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|-----------------------|---------------|----------------|
| PSVP-10 x 2 | 76 | 345* | Poppet with free rev. | 1/2"-3/4" | \$ 707.00 |
| HS7702P8B or P12B manifold only \$ 257.00 | | | | | |



- Manifold dimensions, 100 x 90 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

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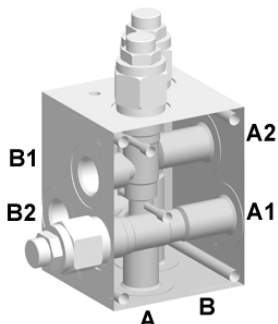
SEQUENCE VALVES

DUAL SEQUENCE VALVES

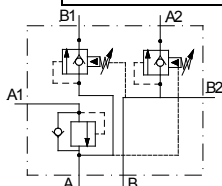
Click on individual cartridges for more info



HS7704P8CM



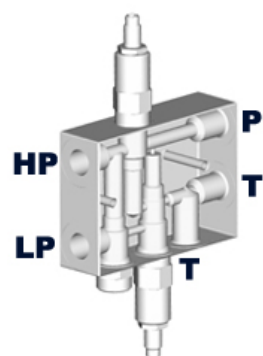
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| PSVP-10 X 2 +CBPA-10 | 76 | 350* | Poppet with free reverse. Hold on one position. | 1/2" | \$ 1295.00 |
| HS7704P8CM manifold only \$ 650.00 | | | | | |



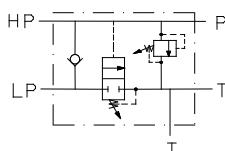
- Manifold dimensions, 100 x 80 x 75mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HI-LOW DOUBLE PUMP SEQUENCE VALVES

HS7890P8C

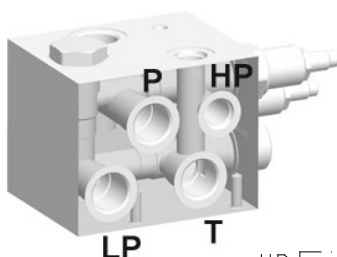


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---|---------------|-------------------|
| PS10-32 + RV10-22 + CV10-23 | 110 | 207 | The valve unloads second pump flow, LP (35 l/min max) at preset pressure. | 3/8" | \$ 618.00 |
| HS7890P8C manifold only \$ 257.00 | | | | | |

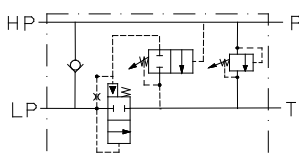


- Manifold dimensions, 140 x 100 x 50mm (excluding cartridge)
- HP and LP flow are combined until pressure setting of PS10-32 is reached and then LP is unloaded. Includes main relief. Block one T port not needed.

HS7856P12DR



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|---|---------------|-------------------|
| EV12-S34 + PS08-32 +RV12-26 +CV12-20 | 180 | 207 | The valve unloads second pump flow, LP (95 l/min max) at preset pressure. | 3/4"-1" | \$ 1156.00 |
| HS7856P12DR \$ 493.00 | | | | | |



- Manifold dimensions, 135 x 100 x 50mm (excluding cartridge)
- HP and LP flow are combined until pressure setting of PS08-32 is reached and then LP is unloaded. Includes main relief.

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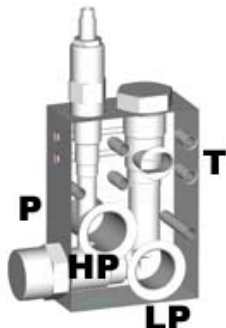
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SEQUENCE VALVES

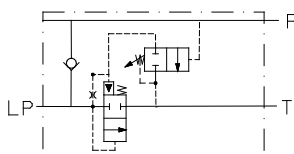
HI-LOW DOUBLE PUMP SEQUENCE VALVES

HS7898P16C

Click on individual cartridges for more info



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| EV16-S34 + PS10-32 + CV16-20 | 300 | 207 | The valve unloads second pump flow, LP (160 l/min max) at preset pressure. | 1" | \$ 1171.00 |
| HS7898P16C manifold only \$ 664.00 | | | | | |



- Manifold dimensions, 145 x 100 x 50mm (excluding cartridge)
- HP and LP flow are combined until pressure setting of PS10-32 is reached and then LP is unloaded.

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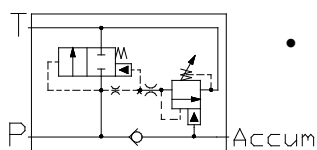
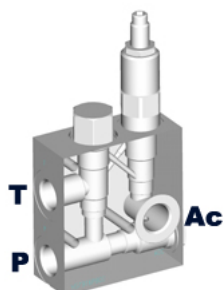
UNLOADING VALVES

ACCUMULATOR UNLOADING VALVES



HS7916P8CC

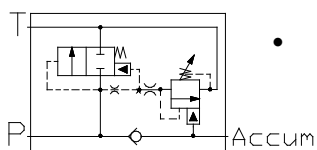
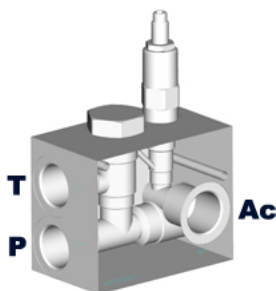
Click on individual cartridges for more info



- Manifold dimensions, 99 x 90 x 39mm (excluding cartridges)

| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|--|---------------|-------------------|
| EV10-S34 + UP10-30 + CV10-20 | 75 | 207 | Ratio between loading and reloading P is 55 to 94% | 1/2" | \$ 724.00 |
| HS7916P8CC manifold only \$ 223.00 | | | | | |

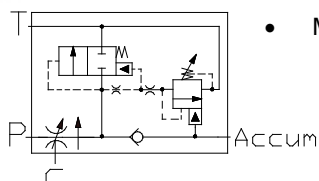
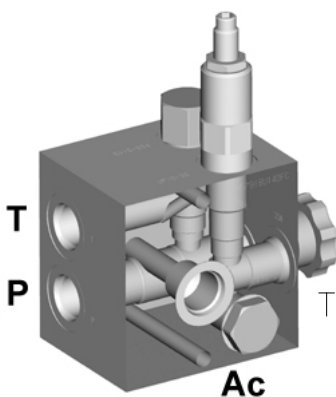
HS7917P12CC



- Manifold dimensions, 120 x 100 x 50mm (excluding cartridges)

| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| EV16-S34 + UP10-30 + CV16-20 | 150 | 207 | Ratio between loading and reloading P is 55 to 94% | 3/4" | \$ 1075.00 |
| HS7917P12CC or P16CC manifold only \$ 436.00 | | | | | |

HS7918U14DFC



- Manifold dimensions, 100 x 100 x 79mm (excluding cartridges)

| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|---|----------------|--------------|--|--------------|-------------------|
| EV10-S34 + UP10-30 + CV10-20 + FR12-33 | 114 | 207 | Priority flow to accumulator. Ratio between loading and reloading P is 55 to 94% | 7/8" | \$ 1347.00 |
| HS7918U14DFC manifold only \$ 525.00 | | | | | |

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- B2 Pressure Compensated

B4 Three Port Flow Controls

- B4 Pressure Compensated

B11 Auto-Pilot Steering Valves**B12 Sequence Flow Controls**

- B12 Feed Out Wagon Valves

B13 Flow Dividers/Combiners**B14 Solenoid Defeatable Valves****B15 Hoist & Roller Spreader Control Valves****HYDRAULIC SPECIALTIES LTD.**

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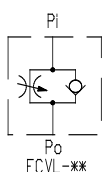
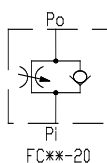
TWO PORT FLOW CONTROLS

NON COMPENSATED

Click on individual cartridges for more info



HS0820P4 or P6

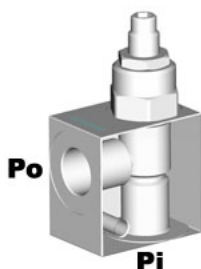
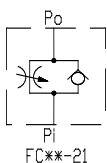
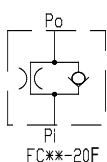


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|------------------------------|---------------|-------------------|
| NV08-20 | 42 | 240 | 3.5 turns | 1/4"-3/8" | \$ 155.00 |
| NV08-21 | 55 | 240 | 8 turns and positive shutoff | 1/4"-3/8" | \$ 179.00 |
| FC08-20F | 45 | 240 | Fixed orifice check | 1/4"-3/8" | \$ 187.00 |
| NV08-23 | 38 | 240 | Fine adjustment | 1/4"-3/8" | \$ 163.00 |
| NFCV-08 | 38 | 350* | 4.5 turns, positive shut off | 1/4"-3/8" | \$ 138.00 |
| FCVL-08 | 38 | 350* | Free reverse check | 1/4"-3/8" | \$ 223.00 |

HS0820P4 or P6 manifold only \$ 78.00

- Manifold dimensions, 50 x 45 x 25mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

HS1020P6 or P8

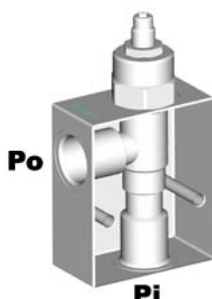
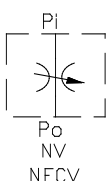
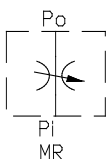


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|--|---------------|-------------------|
| NV10-20 | 57 | 240 | 3.5 turns | 3/8"-1/2" | \$ 166.00 |
| NV10-21 | 57 | 240 | 9 turns and positive shutoff | 3/8"-1/2" | \$ 187.00 |
| NV10-22 | 60 | 240 | 5.5 turns lockable | 3/8"-1/2" | \$ 187.00 |
| MR10-20 | 49 | 240 | Manual rotary and ten position detent | 3/8"-1/2" | \$ 224.00 |
| FC10-20 | 45 | 240 | 3 turns and free reverse check. CCW to increase flow | 3/8"-1/2" | \$ 195.00 |
| FC10-21 | 60 | 240 | 2 turns and free reverse check. CW to increase flow | 3/8"-1/2" | \$ 187.00 |
| NFCV-10 | 30 | 350* | 4.5 turns, positive shut off | 3/8"-1/2" | \$ 171.00 |
| FCVL-10 | 68 | 350* | Free reverse check | 3/8"-1/2" | \$ 186.00 |

HS1020P6 or P8 manifold only \$ 86.00

- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

HS1220P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|--------------------------------|---------------|-------------------|
| NV12-20 | 130 | 240 | 4.5 turns | 3/4" | \$ 316.00 |
| FC12-20 | 130 | 240 | 5 turns and free reverse check | 3/4" | \$ 287.00 |

HS1220P12 manifold only \$ 155.00

- Manifold dimensions, 90 x 75 x 40mm (excluding cartridge)
- * Requires steel block over 240 bar – contact Hyspecs for pricing

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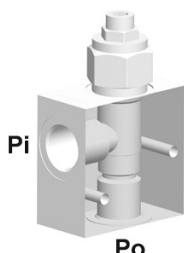
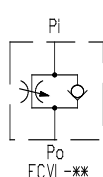
TWO PORT FLOW CONTROLS

NON COMPENSATED

Click on individual cartridges for more info



HS1221P12

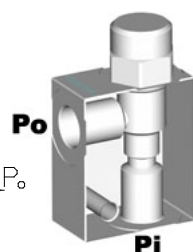
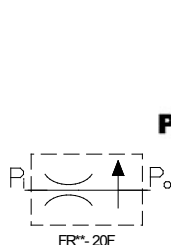


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--------------------|---------------|----------------|
| FCVL-12 | 136 | 350* | Free reverse check | 3/4" | \$ 300.00 |
| HS1221P12 manifold only \$ 155.00 | | | | | |

- Manifold dimensions, 75 x 75 x 40mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

PRESSURE COMPENSATED

HS0820P4 or P6

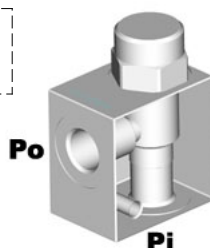
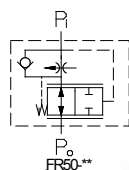


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------|----------------|--------------|-----------------------------------|---------------|----------------|
| FR08-20F | 7.5 | 240 | Preset orifice | 1/4"-3/8" | \$ 158.00 |
| PCFC-08 | 23 | 350* | Fixed orifice with 30% adjustment | 1/4"-3/8" | \$ 168.00 |

HS0820P4 or P6 manifold only \$ 78.00

- Manifold dimensions, 50 x 45 x 25mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

HS1020P6 or P8

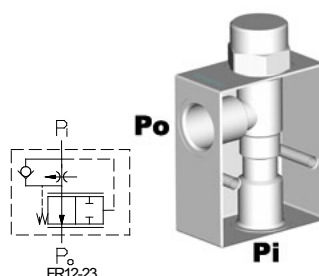
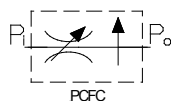


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------|----------------|--------------|-----------------------------------|---------------|----------------|
| FR10-20F | 22 | 240 | Preset orifice | 3/8"-1/2" | \$ 178.00 |
| PCFC-10 | 45 | 350* | Fixed orifice with 30% adjustment | 3/8"-1/2" | \$ 181.00 |
| FR50-23 | 11.5 | 350* | Adjustable from 0.4 l/min | 3/8"-1/2" | \$ 289.00 |
| FR50-28 | 34 | 350* | Adjustable from 0.8 l/min | 3/8"-1/2" | \$ 298.00 |

HS1020P6 or P8 manifold only \$ 86.00

- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

HS1220P12



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------|----------------|--------------|--|---------------|----------------|
| FR12-20F | 55 | 240 | Preset orifice | 3/4" | \$ 333.00 |
| FR12-23 | 77 | 240 | Full range adjustable, block mod. needed | 3/4" | \$ 453.00 |
| PCFC-12 | 90 | 345* | Fixed orifice with 30% adjustment | 3/4" | \$ 385.00 |

HS1220P12 manifold only \$ 155.00

- Manifold dimensions, 90 x 75 x 40mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

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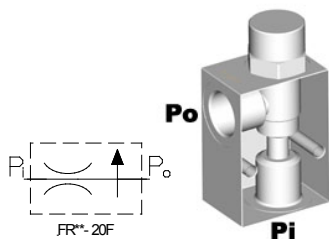
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TWO PORT FLOW CONTROLS

PRESSURE COMPENSATED [Click on individual cartridges for more info](#)



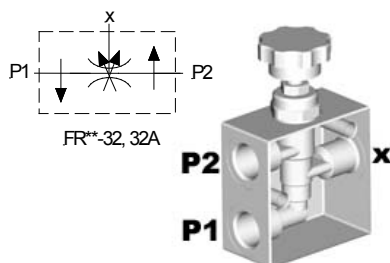
HS1620P16



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|----------------|---------------|-------------------|
| FR16-20F | 113 | 240 | Preset orifice | 3/4" -1" | \$ 392.00 |
| HS1620P12 or P16 manifold only \$ 189.00 or \$ 207.00 | | | | | |

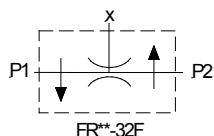
- Manifold dimensions, 100 x 70 x 50mm (excluding cartridge)

HS1030P6 or P8 (By-pass port blocked)

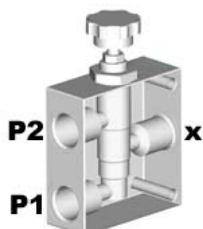


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---------------------------------------|---------------|-------------------|
| FR10-32F | 19 | 240 | Fixed, bi-directional | 3/8"-1/2" | \$ 307.00 |
| FR10-32A | 19 | 240 | Full range adjustable, bi-directional | 3/8"-1/2" | \$ 387.00 |
| HS1030P6 or P8 manifold only \$ 132.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)



HS1230P12 (By-pass port blocked)



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---------------------------------------|---------------|-------------------|
| FR12-32 | 50 | 240 | Full range adjustable, bi-directional | 3/4" | \$ 526.00 |
| HS1230P12 manifold only \$ 241.00 | | | | | |

- Manifold dimensions, 100 x 75 x 39mm (excluding cartridge)

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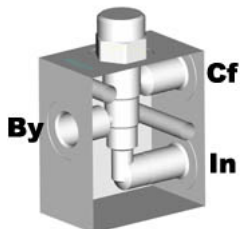
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THREE PORT FLOW CONTROLS

PRESSURE COMPENSATED *Click on individual cartridges for more info*



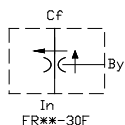
HS0830P4 or P6



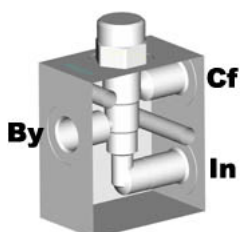
| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------|----------------|--------------|--|---------------|-------------------|
| FR08-30F | 11 | 240 | Preset orifice and 7.6 l/min max regulated | 1/4"-3/8" | \$ 219.00 |
| BFCV-08 | 22 | 350* | Preset orifice with 30% adjustment | 1/4"-3/8" | \$ 312.00 |

HS0830P4 or P6 manifold only \$ 127.00

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs for pricing*



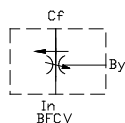
HS1030P6 or P8



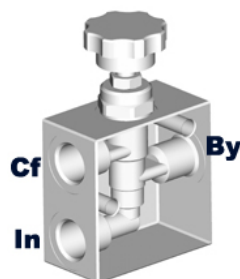
| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------|----------------|--------------|---|---------------|-------------------|
| FR10-30F | 38 | 240 | Preset orifice and 22.7 l/min max regulated | 3/8"-1/2" | \$ 233.00 |
| BFCV-10 | 45 | 350* | Preset orifice with 30% adjustment | 3/8"-1/2" | \$ 337.00 |

HS1030P6 or P8 manifold only \$ 132.00

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs for pricing*



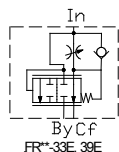
HS1030P6 or P8



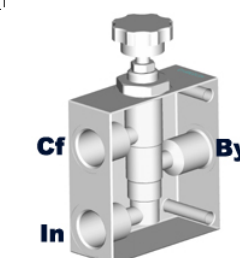
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|---|---------------|-------------------|
| FR10-33E | 20 | 240 | 3 port R.F: 0-11 l/min 2 port R.F: 0-9 l/min Full range adjustable | 3/8"-1/2" | \$ 344.00 |
| FR10-39E | 57 | 240 | 3 port R.F: 0-38 l/min 2 port R.F: 0-34 l/min Full range adjustable | 3/8"-1/2" | \$ 344.00 |

HS1030P6 or P8 manifold only \$ 132.00

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)



HS1230P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|---|---------------|-------------------|
| FR12-33E | 114 | 240 | 3 port R.F: 0-68 l/min 2 port R.F: 0-45 l/min Full range adjustable | 3/4" | \$ 562.00 |
| FR12-30F | 95 | 240 | Preset orifice and 49 l/min regulated | 3/4" | \$ 391.00 |
| BFCV-12 | 76 | 350* | Preset orifice with 30% adjustment | 3/4" | \$ 456.00 |

HS1230P12 manifold only \$ 241.00

- Manifold dimensions, 100 x 75 x 39mm (excluding cartridge)

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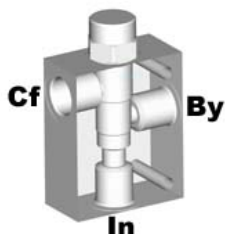
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THREE PORT FLOW CONTROLS

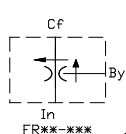
PRESSURE COMPENSATED *Click on individual cartridges for more info*

HS1630P16

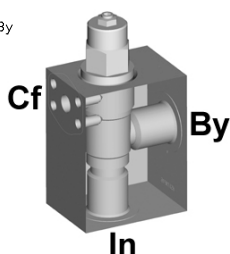


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--|---------------|-------------------|
| FR16-30F | 190 | 240 | Preset orifice and 130 l/min regulated | 1" | \$ 484.00 |
| BFCV-16 | 114 | 350* | Preset orifice with 30% adjustment | 1" | \$ 519.00 |
| HS1630P16 manifold only \$ 264.00 | | | | | |

- Manifold dimensions, 125 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing



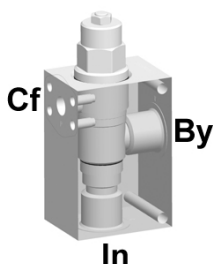
HS17AP16



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|----------------------------------|----------------|--------------|--|---------------------------|-------------------|
| FREA-LAN | 240 | 350* | Priority 100 l/min preset with $\pm 25\%$ adjustment | 1" & 1/2" code 61 Cf port | \$ 740.00 |
| HS17AP16 manifold only \$ 380.00 | | | | | |

- Manifold dimensions, 110 x 85 x 62mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

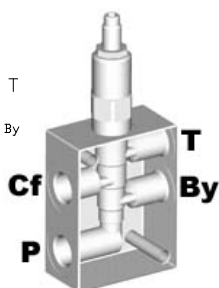
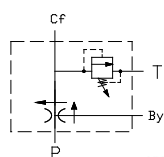
HS19AP20



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|----------------------------------|----------------|--------------|--|-------------------------------|-------------------|
| FRFA-LAN | 480 | 350* | Priority 200 l/min preset with $\pm 25\%$ adjustment | 1 1/4" & 3/4" code 62 Cf port | \$ 1060.00 |
| HS19AP20 manifold only \$ 415.00 | | | | | |

- Manifold dimensions, 150 x 100 x 75mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS1040P6 or P8



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| FRRV10-41F | 38 | 207 | 19 l/min max regulated flow, fixed orifice, adjustable relief valve | 3/8" - 1/2" | \$ 391.00 |
| HS1040P6 or P8 manifold only \$ 150.00 | | | | | |

- Manifold dimensions, 99 x 75 x 39mm (excluding cartridge)

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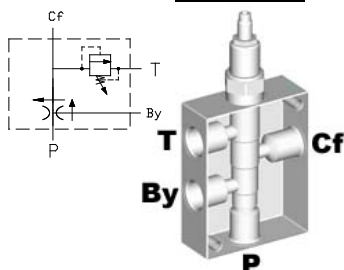
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THREE PORT FLOW CONTROLS

PRESSURE COMPENSATED *Click on individual cartridges for more info*



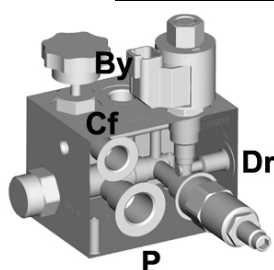
HS1240P12



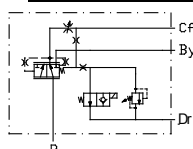
| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---|---------------|-------------------|
| FRRV12-41F | 76 | 207 | 45 l/min max regulated flow, fixed orifice, adjustable relief valve | 3/4" | \$ 517.00 |
| HS1240P12 manifold only \$ 252.00 | | | | | |

- Manifold dimensions, 130 x 99 x 39mm (excluding cartridge)

HS8206P8DRE

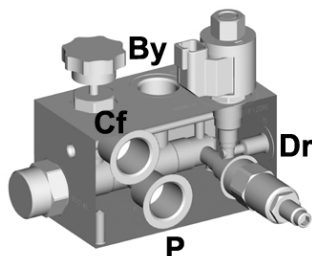


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|---|---------------|-------------------|
| NV08-21E + EC10-43 +RV08-20 +SV08-21 | 45 | 240 | Priority 34 l/min, relief and solenoid control on Cf port, NO | 1/2" | \$ 921.00 |
| HS8206P8DRE manifold only \$ 345.00 | | | | | |

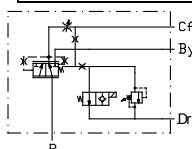


- Manifold dimensions, 100 x 75 x 75mm (excluding cartridge)

HS8211P12DRE

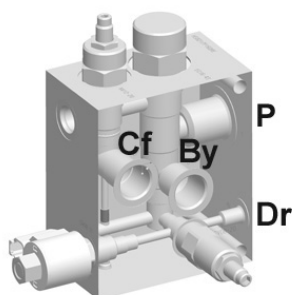


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|---|---------------|-------------------|
| NV10-21E + EC12-43 +RV08-20 +SV08-21 | 114 | 240 | Priority 57 l/min, relief and solenoid control on Cf port, NO | 3/4" | \$ 1066.00 |
| HS8211P12DRE manifold only \$ 405.00 | | | | | |

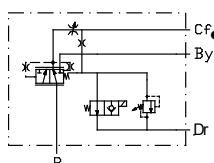


- Manifold dimensions, 135 x 75 x 75mm (excluding cartridge)

HS8217P16DRE



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| NV12-20 + EC16-43 +RV08-20 +SV08-21 | 190 | 240 | Priority 95 l/min, relief and solenoid control on Cf port, NO | 1" 1/4" Dr | \$ 1274.00 |
| HS8217P16DRE manifold only \$ 495.00 | | | | | |



- Manifold dimensions, 150 x 126 x 75mm (excluding cartridge)

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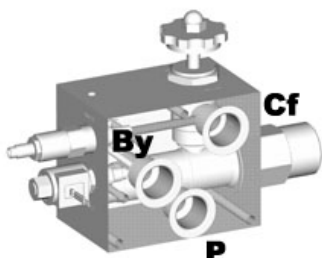
THREE PORT FLOW CONTROLS

PRESSURE COMPENSATED

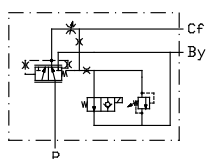
Click on individual cartridges for more info



HS8201P16DRE

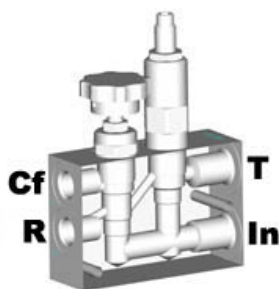


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| NV1-20 + EC42-M43 +RV08-20 +SV08-20 | 303 | 210 | Priority 260 l/min, relief and solenoid control on Cf, NC | 1" | \$ 1953.00 |
| NV1-20 + EC42-M43 +RV08-20 +SV08-21 | 303 | 210 | Priority 260 l/min, relief and solenoid control on Cf, NO | 1" | \$ 1988.00 |
| HS8201P16DRE manifold only \$ 738.00 | | | | | |

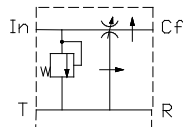


- Manifold dimensions, 150 x 126 x 100mm (excluding cartridge)

HS8270P8BR

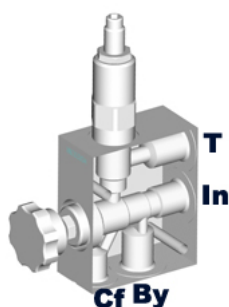


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| FR10-33E + RV10-20 | 20 | 240 | Full range adjustable. 12 l/min regulated. Relieve to tank. | 1/2" | \$ 591.00 |
| FR10-39E + RV10-20 | 57 | 240 | Full range adjustable. 34 l/min regulated. Relieve to tank. | 1/2" | \$ 591.00 |
| HS8270P8BR manifold only \$ 246.00 | | | | | |

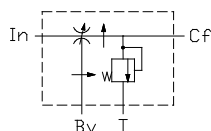


- Manifold dimensions, 110 x 75 x 37mm (excluding cartridge)

HS8202P8BR



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| FR10-33E + RV10-20 | 29 | 240 | Full range adjustable. 12 l/min regulated. Relieve to tank. | 1/2" | \$ 529.00 |
| FR10-39E + RV10-20 | 57 | 240 | Full range adjustable. 34 l/min regulated. Relieve to tank. | 1/2" | \$ 529.00 |
| HS8202P8BR manifold only \$ 184.00 | | | | | |



- Manifold dimensions, 99 x 80 x 39mm (excluding cartridge)

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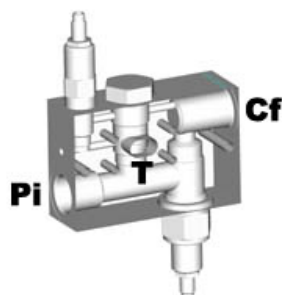
THREE PORT FLOW CONTROLS

PRESSURE COMPENSATED

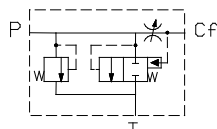
Click on individual cartridges for more info



HS8205P16CR

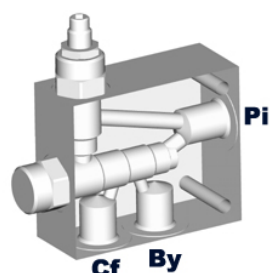


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|---|---------------|-------------------|
| EP16-S35 + RV10-22 + NV1-16 | 220 | 207 | 150 l/min regulated and bypass and relief to tank only. 7 turns adjustable. FLH-1603 tank port flange. | 3/4" | \$ 913.00 |
| EP16-S35 + RV10-22 + MRV2-16 | 220 | 207 | 150 l/min regulated and bypass and relief to tank only. 1/2 turn adjustable only. FLH-1603 tank port flange. | 3/4" | \$ 968.00 |
| HS8205P16CR manifold only \$ 309.00 | | | | | |

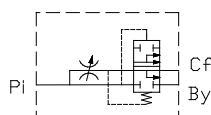


- Manifold dimensions, 150 x 100 x 50mm (excluding cartridge)

HS8207P8B

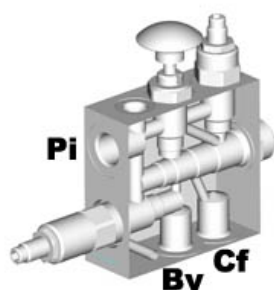


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--|---------------|-------------------|
| NV10-20 + EC10-40 | 57 | 207 | 38 l/min regulated 3.5 turns | 1/2" | \$ 396.00 |
| MR10-20 + EC10-40 | 57 | 207 | 38 l/min regulated 1/2 turn only | 1/2" | \$ 454.00 |
| FC10-20 + EC10-40 | 57 | 207 | 38 l/min regulated, 3 turns and free reverse flow | 1/2" | \$ 425.00 |
| HS8207P8B manifold only \$ 184.00 | | | | | |

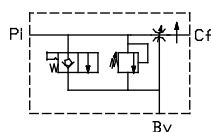


- Manifold dimensions, 99 x 85 x 39mm (excluding cartridge)

HS8209P8DR (with manual dump & relief)



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| NV10-20 + EC10-40 + RV10-22 + MP10-20 | 57 | 207 | 38 l/min regulated 3.5 turns , relief and manual dump to bypass | 1/2" | \$ 867.00 |
| HS8209P8DR manifold only \$ 384.00 | | | | | |



- Manifold dimensions, 105 x 99 x 49mm (excluding cartridge)

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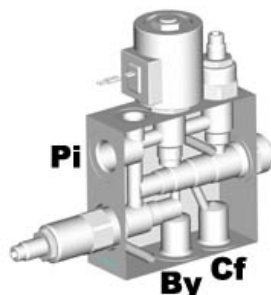
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THREE PORT FLOW CONTROLS

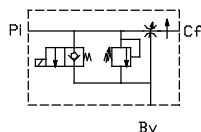
PRESSURE COMPENSATED [Click on individual cartridges for more info](#)



HS8209P8DR (with solenoid dump & relief)

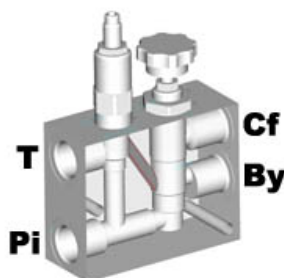


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| NV10-20 + EC10-40 + RV10-22 + SV10-20 | 57 | 207 | 38 l/min regulated 3.5 turns , relief and solenoid dump to bypass | 1/2" | \$ 913.00 |
| MR10-20 + EC10-40 + RV10-22 + SV10-20 | 57 | 207 | 38 l/min regulated 1/2 turn only , relief and solenoid dump to bypass | 1/2" | \$ 971.00 |
| HS8209P8DR manifold only \$ 384.00 | | | | | |

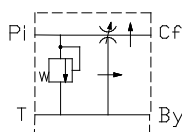


- Manifold dimensions, 105 x 99 x 39mm (excluding cartridge)

HS8212P12BR (with relief)

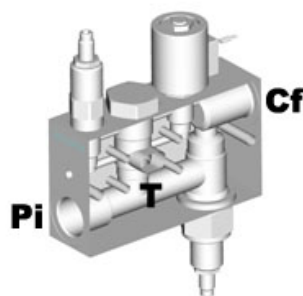


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|----------------------------|---------------|-------------------|
| FR12-33E + RV10-26 | 76 | 240 | 68 l/min regulated flow | 3/4" | \$ 857.00 |
| HS8212P12BR manifold only \$ 384.00 | | | | | |

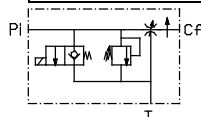


- Manifold dimensions, 125 x 100 x 50mm (excluding cartridge)

HS8218P16DR/E (with solenoid dump & relief)



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| EP16-S35 + RV10-22 + NV1-16 + SV10-20(NC) or + SV10-21(NO) | 220 | 207 | 150 l/min regulated and bypass and relief to tank only. 7 turns adjustment , solenoid dump, FLH-1603 tank port flange | 1" | \$ P.O.A. |
| EP16-S35 + RV10-22 + MRV2-16 + SV10-20(NC) or + SV10-21(NO) | 220 | 207 | 150 l/min regulated and bypass and relief to tank only. 1/2 turn adjustment , solenoid dump, FLH-1603 tank port flange | 1" | \$ P.O.A. |
| HS8218P16DR/E manifold only \$ P.O.A. | | | | | |



- Manifold dimensions, 160 x 100 x 50mm (excluding cartridge)

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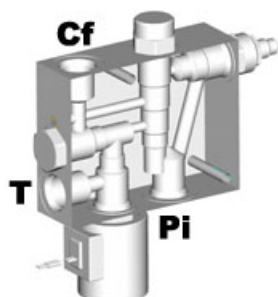
THREE PORT FLOW CONTROLS

PRESSURE COMPENSATED

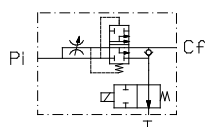
Click on individual cartridges for more info



HS8216U14DE (2 speed control)

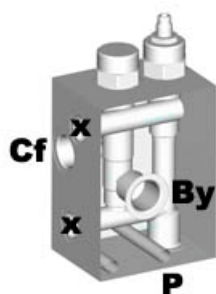


| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|---|----------------|--------------|---------------------------------------|--------------|--|
| NV10-20 + EC10-40 + CV10-20 + SV10-24(NC) or + SV10-25(NO) | 50 | 207 | 2-speed control, solenoid operated | 7/8" | \$ 818.00 (NC) \$ 831.00 (NO) |
| HS8216U14DE manifold only \$ 380.00 | | | | | |

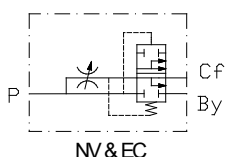


- Manifold dimensions, 125 x 100 x 40mm (excluding cartridge)

HS8264P12B



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---------------------------------------|---------------|----------------|
| NV12-20 + EC12-40 | 120 | 240 | 60 l/min regulated flow, 4.5 turns | 3/4" | \$ 779.00 |
| HS8264P12B manifold only \$ 400.00 | | | | | |



- Manifold dimensions, 140 x 100 x 75mm (excluding cartridge)

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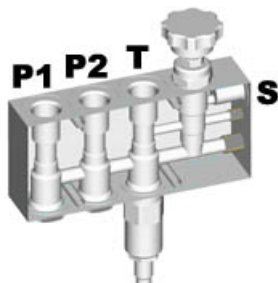
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AUTO-PILOT STEERING VALVES

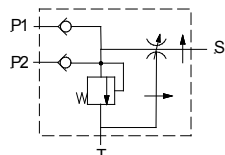


HS8210P8DR

Click on individual cartridges for more info

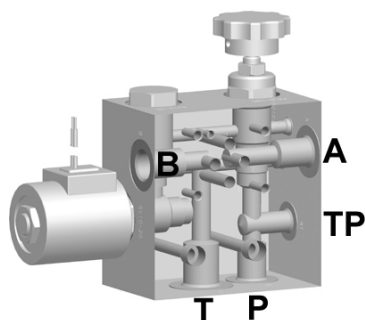


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|-----------------|---------------|-------------------|
| FR10-39 + RV10-22 + CV10-20 x 2 | 57 | 240 | Two pump inlets | 1/2" | \$ 924.00 |
| HS8210P8DR manifold only \$ 481.00 | | | | | |

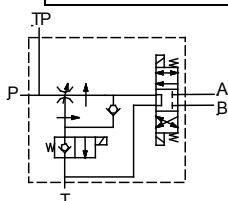


- Manifold dimensions, 160 x 75 x 37mm (excluding cartridge)

HS31SFE

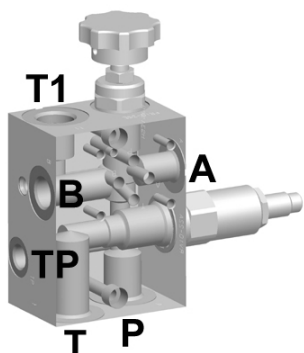


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price NH |
|--|----------------|--------------|----------------------------------|---------------|----------------------|
| FR10-39 + DG4V3 + CV10-20 + SV10-20 (N.H) or SV10-21 (N.L) | 57 | 240 | Two speed by solenoid changeover | 1/2" | \$ 1344.00 |
| HS31SFE manifold only \$ 452.00 | | | | | |

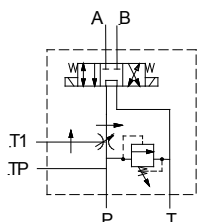


- Manifold dimensions, 100 x 100 x 60mm (excluding cartridge)

HS31SFR



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------|----------------|--------------|-------------------------------------|---------------|-------------------|
| FR10-39 + DG4V3 + RV10-22 | 57 | 240 | Built in relief, bypass can be used | 1/2" | \$ 1295.00 |
| HS31SFR manifold only \$ 452.00 | | | | | |



- Manifold dimensions, 100 x 75 x 50mm (excluding cartridge)

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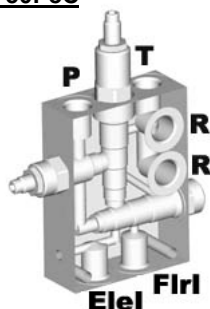
SEQUENCE FLOW CONTROLS

FEED OUT WAGON VALVES

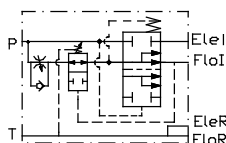
Click on individual cartridges for more info



HS8750P8C

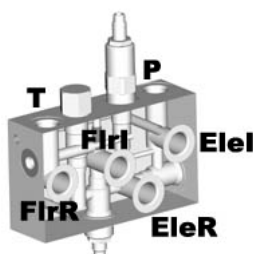


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|--|---------------|-------------------|
| FC10-20A + EC10-40 + PS10-41 | 56 | 207 | 30 l/min regulated flow, parallel version | 1/2" | \$ 803.00 |
| HS8750P8C manifold only \$ 355.00 | | | | | |

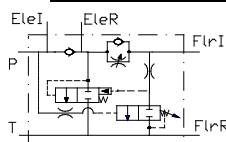


- Manifold dimensions, 135 x 99 x 39mm (excluding cartridge)

HS8767P8D

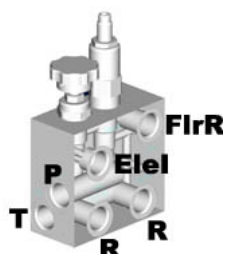


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| FC10-20A + EP10-S35 + CV10-20 + PS08-32 | 60 | 240 | 45 l/min regulated flow, series version | 1/2" | \$ 758.00 |
| HS8767P8D manifold only \$ 304.00 | | | | | |

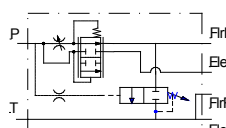


- Manifold dimensions, 165 x 100 x 50mm (excluding cartridge)

HS8768P8B

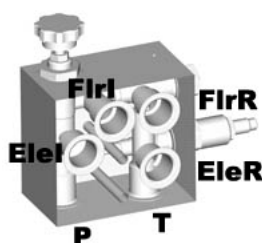


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--|---------------|-------------------|
| FR10-39 + PS10-32 + Orifice | 60 | 240 | 38 l/min regulated flow, parallel version | 1/2" | \$ 595.00 |
| HS8768P8B manifold only \$ 212.00 | | | | | |

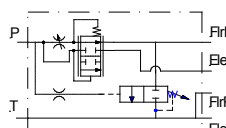


- Manifold dimensions, 105 x 100 x 50mm (excluding cartridge)

HS8769P12B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|--|---------------|-------------------|
| EV10-S34 + PS08-32 + FR12-33 + Orifice | 100 | 240 | 68 l/min regulated flow, parallel version | 3/4" | \$ 1392.00 |
| HS8769P12B manifold only \$ 750.00 | | | | | |



- Manifold dimensions, 125 x 115 x 75mm (excluding cartridge)

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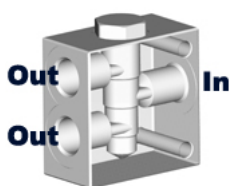
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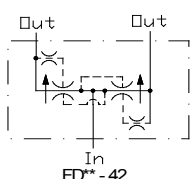
FLOW DIVIDERS/COMBINERS



HS1040P6D or P8D [Click on individual cartridges for more info](#)

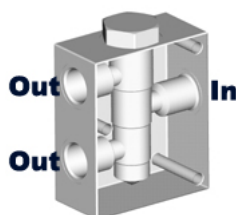


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| FD10-42 | 60* | 240 | With anti-stall feature for motor applications | 3/8"-1/2" | \$ 315.00 |
| FD50-44 | 38 | 345** | Multi-function, low flow, high performance | 3/8"-1/2" | \$ 315.00 |
| FD50-45 | 45* | 345** | Cylinder and motor synchronization in both directions | 3/8"-1/2" | \$ 332.00 |
| FDCV-10 | 60 | 350* | 1:2 and 1:3 ratios available | 3/8"-1/2" | \$ 333.00 |
| HS1040P6D or P8D manifold only \$ 143.00 | | | | | |

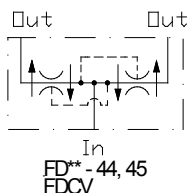


- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- * Specify input flow rate for higher accuracy
- ** Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS1240P12D

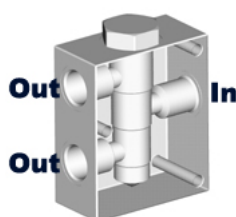


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| FD12-45 | 90* | 240 | Cylinder and motor synchronization in both directions | 3/4" | \$ 567.00 |
| FD52-45 | 90* | 345** | Cylinder and motor synchronization in both directions | 3/4" | \$ 584.00 |
| FDCV-12 | 121 | 350* | 1:2 and 1:3 ratios available | 3/4" | \$ 517.00 |
| HS1240P12D manifold only \$ 241.00 | | | | | |



- Manifold dimensions, 130 x 99 x 39mm (excluding cartridge)
- * Specify input flow rate for higher accuracy
- ** Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS1640P12D or 16D



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| FD16-42 | 150* | 240 | With anti-stall for motor synchronization in both directions | 3/4"-1" | \$ 630.00 |
| FD56-45 | 150* | 345** | Cylinder and motor synchronization in both directions | 3/4"-1" | \$ 630.00 |
| HS1640P12D or 16D manifold only \$ 264.00 or \$ 277.00 | | | | | |

- Manifold dimensions, 120 x 100 x 50mm (excluding cartridge)
- * Specify input flow rate for higher accuracy
- ** Requires steel block over 280 bar – *contact Hyspecs* for pricing

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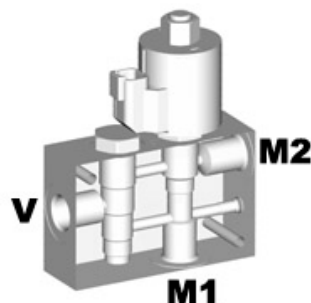
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SOLENOID DEFEATABLE VALVES

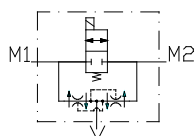


HS8921P8BE

Click on individual cartridges for more info

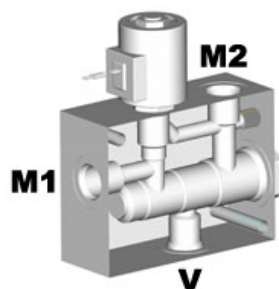


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|--------------------------|---------------|----------------|
| FD50-45 + SV10-24 | 45 | 207 | Solenoid normally closed | 1/2" | \$ 641.00 |
| FD50-45 + SV10-25 | 45 | 207 | Solenoid normally open | 1/2" | \$ 654.00 |
| HS8921P8BE manifold only \$ 281.00 | | | | | |

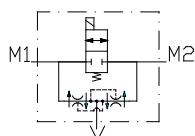


- Manifold dimensions, 115 x 75 x 37mm (excluding cartridge)

HS8923P12BE

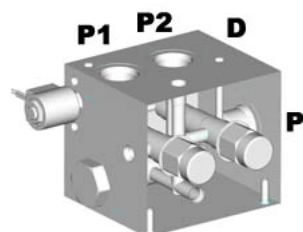


| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|--------------------------|--------------|----------------|
| FD16-45 + SV10-24 | 150 | 207 | Solenoid normally closed | 3/4" | \$ 892.00 |
| FD16-45 + SV10-25 | 150 | 207 | Solenoid normally open | 3/4" | \$ 905.00 |
| HS8923P12BE manifold only \$ 355.00 | | | | | |

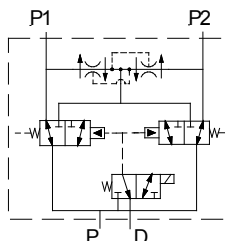


- Manifold dimensions, 135 x 100 x 50mm (excluding cartridge)

HS8699U21DE



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|---------------------------------------|----------------|--------------|----------------------|--------------|----------------|
| 2 x PD12-40 + FD16-45 + SV08-30 | 230 | 207 | Defeatable both ways | 1 5/16" | \$ 1733.00 |
| HS8699U21DE manifold only \$ 675.00 | | | | | |



- Manifold dimensions, 145 x 125 x 125mm (excluding cartridge)

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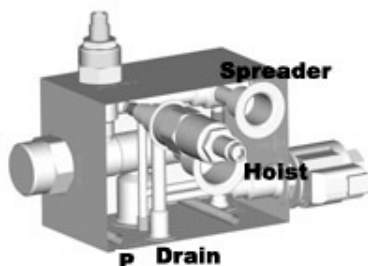
E-mail: hyspecs@hyspecs.co.nz

HOIST & ROLLER SPREADER CONTROL VALVES

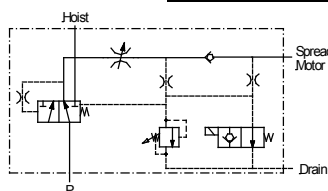


HS8302ERE

Click on individual cartridges for more info

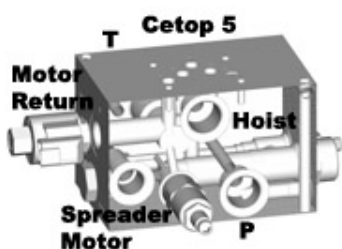


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|----------------|----------------|
| NV10-20A + EC12-43 + RV08-20 + SV08-21 + CV10-20 (or SV10-24) | 150 in | 207 | Load sense, solenoid start/stop and relief on roller spreader | 1/2" & 3/4" | \$ 1353.00 |
| HS8302ERE manifold only \$ 658.00 | | | | | |

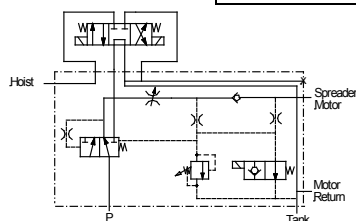


- Manifold dimensions, 125 x 90 x 75mm (excluding cartridge)

HS8305ERE



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|----------------|----------------|
| NV10-20A + EC12-42 + RV08-20 + SV08-21 + CV10-20 | 150 in | 207 | Load sense, solenoid start/stop and relief on roller spreader, Cetop 5 (not included) interface for hoist | 1/2" & 3/4" | \$ 1526.00 |
| HS8305ERE manifold only \$ 870.00 | | | | | |



- Manifold dimensions, 155 x 100 x 100mm (excluding cartridge)

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CONTENTS SECTION C – DIRECTIONAL VALVES**C1 Check Valves**

- C1 Single Direct Acting
- C2 Anti-Cavitation
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C8 Shuttle Valves

- C8 Ball Shuttle Valves
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C11 External Pilot Operated

- C11 2 Way, 2 Position
- C11 2 Way or 3 Way, 2 Position
- C12 2 Way, 3 Way or 4 Way, 2 Position
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- C17 2 Way, 2 Position
- C17 3 Way, 2 Position
- C18 4 Way, 2 Position
- C18 4 Way, 3 Position

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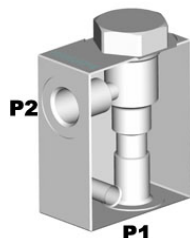
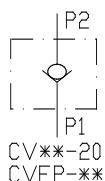
CHECK VALVES

SINGLE DIRECT ACTING

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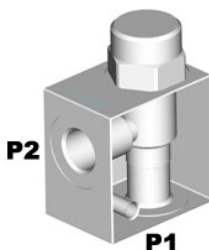
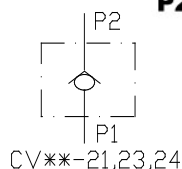
HS0820P4 or P6



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|-------|---------------|----------------|
| CV08-20 | 30 | 240 | - | 1/4"-3/8" | \$ 126.00 |
| CV08-21 | 30 | 240 | - | 1/4"-3/8" | \$ 147.00 |
| CVFP-08 | 38 | 350* | - | 1/4"-3/8" | \$ 123.00 |
| HS0820P4 or P6 manifold only \$ 78.00 | | | | | |

- Manifold dimensions, 50 x 45 x 25mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

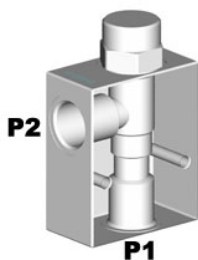
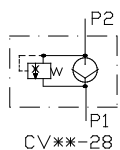
HS1020P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|---------------------|---------------|----------------|
| CV10-20 | 75 | 240 | - | 3/8"-1/2" | \$ 141.00 |
| CV50-20 | 75 | 345* | - | 3/8"-1/2" | \$ 178.00 |
| CV10-21 | 50 | 207 | - | 3/8"-1/2" | \$ 150.00 |
| CV10-23 | 50 | 240 | Heavy duty | 3/8"-1/2" | \$ 150.00 |
| CV10-24 | 56 | 240 | - | 3/8"-1/2" | \$ 150.00 |
| CV10-28 | 45 | 240 | With thermal relief | 3/8"-1/2" | \$ 195.00 |
| HS1020P6 or P8 manifold only \$ 86.00 | | | | | |

- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

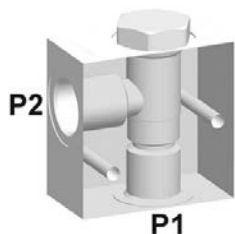
HS1220P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-------|---------------|----------------|
| CV12-20 | 95 | 240 | - | 3/4" | \$ 264.00 |
| CV12-21 | 113 | 240 | - | 3/4" | \$ 269.00 |
| HS1220P12 manifold only \$ 155.00 | | | | | |

- Manifold dimensions, 100 x 75 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

HS1221P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|----------------------------|----------------|--------------|-------|---------------|----------------|
| CVFP-12 | 151 | 350* | - | 3/4" | \$ 285.00 |
| HS1221P12 manifold only \$ | | | | | |

- Manifold dimensions, 75 x 75 x 40mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing

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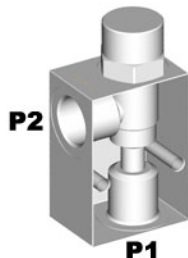
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SINGLE DIRECT ACTING

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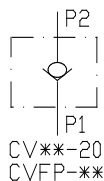


HS1620P12 or P16

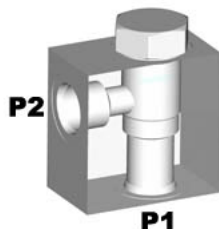


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|-------|---------------|-------------------|
| CV16-20 | 150 | 240 | - | 3/4"-1" | \$ 332.00 |
| CVFP-16 | 228 | 350* | - | 3/4"-1" | \$ 394.00 |
| HS1620P12 or P16 manifold only \$ 189.00 or \$ 207.00 | | | | | |

- Manifold dimensions, 100 x 75 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing



HS4220U21

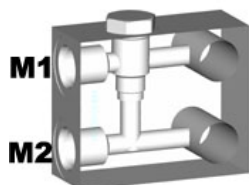


| Cartridge | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-----------------------------------|----------------|--------------|-------|--------------|-------------------|
| CV42-M20 | 378 | 240 | - | 1 5/16" | \$ 450.00 |
| HS4220U21 manifold only \$ 235.00 | | | | | |

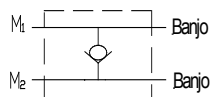
- Manifold dimensions, 100 x 100 x 60mm (excluding cartridge)

ANTI-CAVITATION

HS7001U14A (H, S & T Series)

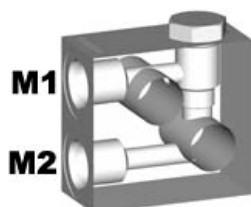


| Cartridge | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|-------------------------------|--------------|-------------------|
| CV10-20 | 75 | 240 | 1.8" Centre, 7/8" banjo bolts | 7/8" | \$ 239.00 |
| HS7001U14A manifold only \$ 184.00 | | | | | |

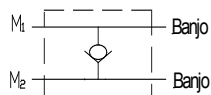


- Manifold dimensions, 90 x 80 x 39mm (excluding cartridge)

HS7013U14C (2000 Series)



| Cartridge | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|---------------------------------------|--------------|-------------------|
| CV10-20 | 75 | 240 | Charlynn 2000 series 7/8" banjo bolts | 7/8" | \$ 255.00 |
| HS7013U14C manifold only \$ 200.00 | | | | | |



- Manifold dimensions, 80 x 75 x 39mm (excluding cartridge)

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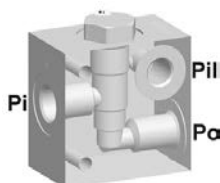
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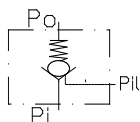


HS0825P6

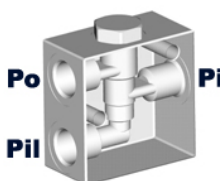


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|----------------------------------|----------------|--------------|--------------------|---------------|-------------------|
| POCI-08 | 38 | 350* | Ratio 3:1, 3-ports | 3/8" | \$ 243.00 |
| HS0825P6 manifold only \$ 113.00 | | | | | |

- Manifold dimensions 62.5 x 62.5 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing



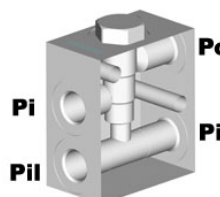
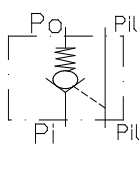
HS0830P4 or P6



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--------------------|---------------|-------------------|
| PC08-30 | 18 | 240 | Ratio 3:1, 3-ports | 1/4"-3/8" | \$ 228.00 |
| HS0830P4 or P6 manifold only \$ 127.00 | | | | | |

- Manifold dimensions 75 x 60 x 37mm for P4, 75 x 65 x 37mm for P6 (excluding cartridge)

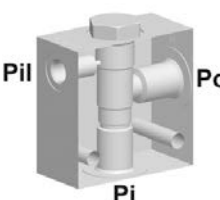
HS0830P6N



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--------------------|---------------|-------------------|
| PC08-30 | 18 | 240 | Ratio 3:1, 4-ports | 3/8" | \$ 313.00 |
| HS0830P6N manifold only \$ 212.00 | | | | | |

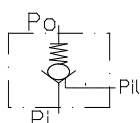
- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

HS1025P8 or P12

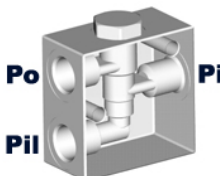


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--------------------|---------------|-------------------|
| POCI-10 | 76 | 350* | Ratio 3:1, 3-ports | 1/2"-3/4" | \$ 328.00 |
| HS1025P8 manifold only \$ 178.00, P12 \$184.00 | | | | | |

- Manifold dimensions 75 (80 for P12) x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing



HS1030P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--------------------|---------------|-------------------|
| PC10-30 | 22 | 240 | Ratio 4:1, 3-ports | 3/8"-1/2" | \$ 246.00 |
| PC10-32 | 30 | 240 | Ratio 2:1, 3-ports | 3/8"-1/2" | \$ 267.00 |
| HS1030P6 or P8 manifold only \$ 132.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

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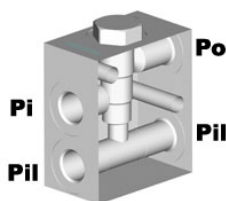
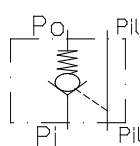
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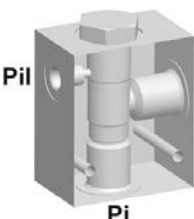
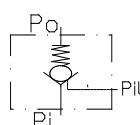
HS1030P6N or P8N



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--------------------|---------------|-------------------|
| PC10-30 | 22 | 240 | Ratio 4:1, 4-ports | 3/8"-1/2" | \$ 294.00 |
| PC10-32 | 30 | 240 | Ratio 2:1, 4-ports | 3/8"-1/2" | \$ 285.00 |
| HS1030P6N or P8N manifold only \$ 180.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

HS1225P12



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--------------------|---------------|-------------------|
| POCI-12 | 132 | 350* | Ratio 3:1, 3-ports | 3/4" | \$ 433.00 |
| HS1225P12 manifold only \$ 223.00 | | | | | |

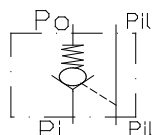
- Manifold dimensions 90 x 75 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS1020P6 or P8

CONTACT HYSPECS

| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|---|---------------|-------------------|
| POCX-10 | 75 | 345* | Ratio 3:1, P4 pilot port on cartridge end | 3/8"-1/2" | \$ 211.00 |
| HS1020P6 or P8 manifold only \$ 86.00 | | | | | |

- Manifold dimensions 50 x 50 x 35mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing



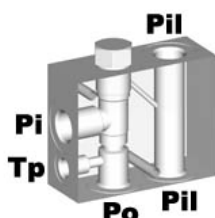
HS1220P12

CONTACT HYSPECS

| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---|---------------|-------------------|
| POCX-12 | 150 | 345* | Ratio 3:1, P4 pilot port on cartridge end | 3/4" | \$ 360.00 |
| HS1220P12 manifold only \$ 155.00 | | | | | |

- Manifold dimensions, 80 x 75 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS4501P6A or P8A



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-----------|---------------|-------------------|
| CKCD | 60 | 345* | Ratio 3:1 | 3/8"-1/2" | \$ 465.00 |
| HS4501P6A or P8A manifold only \$ 281.00 | | | | | |

- Manifold dimensions, 99 x 80 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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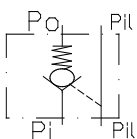
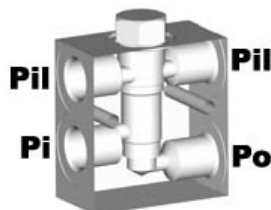
CHECK VALVES

SINGLE PILOT OPERATED

Click on individual cartridges for more info



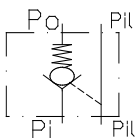
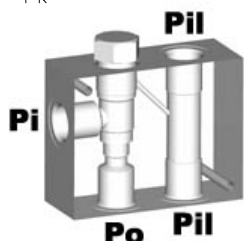
HS4504P8A



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------|---------------|-------------------|
| CKCD-XAN | 60 | 345* | Ratio 3:1 | 1/2" | \$ 331.00 |
| HS4504P8A manifold only \$ 147.00 | | | | | |

- Manifold dimensions, 75 x 70 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

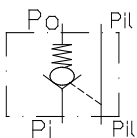
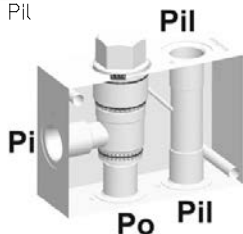
HS4502P12A



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-----------|---------------|-------------------|
| CKED-XAN | 120 | 345* | Ratio 3:1 | 3/4" | \$ 602.00 |
| HS4502P12A manifold only \$ 361.00 | | | | | |

- Manifold dimensions, 125 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

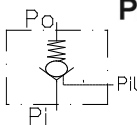
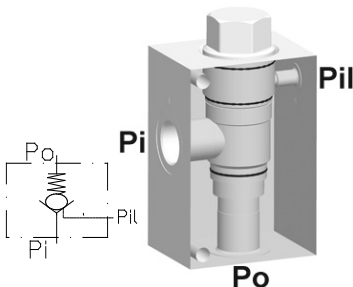
HS4503P12A



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-----------|---------------|-------------------|
| CKGD-XAN | 240 | 345* | Ratio 3:1 | 3/4" | \$ 560.00 |
| HS4503P12A manifold only \$ 330.00 | | | | | |

- Manifold dimensions, 140 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS4506P16A



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-----------|---------------|-------------------|
| CKID-XAN | 480 | 345* | Ratio 3:1 | 1", 1/4" Pil | \$ 855.00 |
| HS4506P16A manifold only \$ 395.00 | | | | | |

- Manifold dimensions, 150 x 100 x 75mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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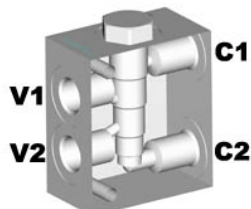
CHECK VALVES

DOUBLE PILOT OPERATED

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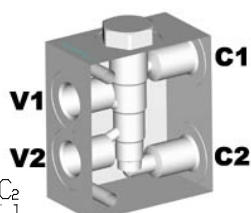
HS0840P6-2



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-----------|---------------|-------------------|
| DC08-40 | 19 | 240 | Ratio 3:1 | 3/8" | \$ 366.00 |
| HS0840P6-2 manifold only \$ 182.00 | | | | | |

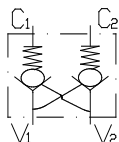
- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

HS1040P6-2

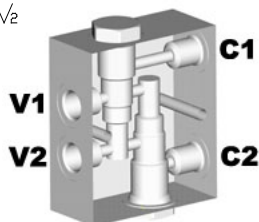


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-----------|---------------|-------------------|
| DC10-40 | 30 | 240 | Ratio 3:1 | 3/8" | \$ 350.00 |
| HS1040P6-2 manifold only \$ 161.00 | | | | | |

- Manifold dimensions, 90 x 75 x 37mm (excluding cartridge)



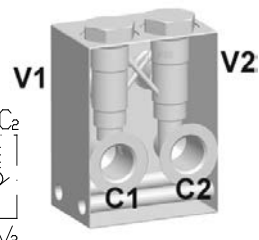
HS9111P6B



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------|---------------|-------------------|
| PC10-30 x 2 | 22 | 240 | Ratio 4:1 | 3/8" | \$ 467.00 |
| PC10-32 x 2 | 30 | 240 | Ratio 2:1 | 3/8" | \$ 509.00 |
| HS9111P6B manifold only \$ 239.00 | | | | | |

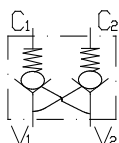
- Manifold dimensions, 99 x 75 x 39mm (excluding cartridge)

HS9110P8B

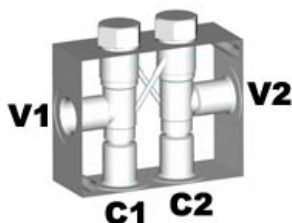


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------|---------------|-------------------|
| POCI-10 x 2 | 76 | 350* | Ratio 3:1 | 1/2" | \$ 588.00 |
| HS9110P8B manifold only \$ 288.00 | | | | | |

- Manifold dimensions, 100 x 75 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing



HS4601P8B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------|---------------|-------------------|
| CKCD x 2 | 60 | 345* | Ratio 3:1 | 1/2" | \$ 620.00 |
| HS4601P8B manifold only \$ 252.00 | | | | | |

- Manifold dimensions, 99 x 79 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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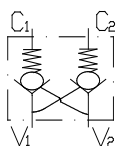
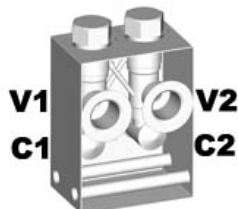
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DOUBLE PILOT OPERATED

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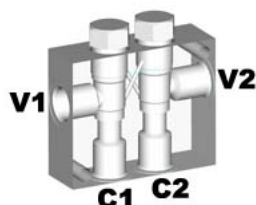
HS4605P8B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------|---------------|-------------------|
| CKCD x 2 | 60 | 345* | Ratio 3:1 | 1/2" | \$ 557.00 |
| HS4605P8B manifold only \$ 189.00 | | | | | |

- Manifold dimensions, 100 x 75 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

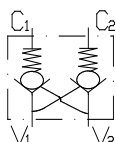
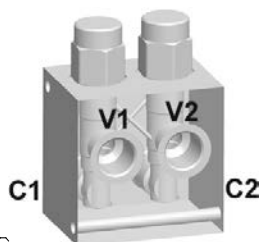
HS4602P12B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-----------|---------------|-------------------|
| CKED x 2 | 120 | 345* | Ratio 3:1 | 3/4" | \$ 866.00 |
| HS4602P12B manifold only \$ 384.00 | | | | | |

- Manifold dimensions, 120 x 99 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

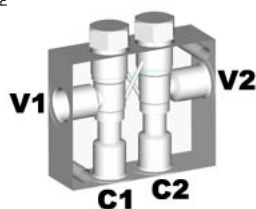
HS4607P12B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------|----------------|--------------|-----------|---------------|-------------------|
| POCI-12 x 2 | 132 | 350* | Ratio 3:1 | 3/4" | \$ 690.00 |
| HS4607P12B manifold only \$ | | | | | |

- Manifold dimensions, 100 x 100 x 75mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS4603P16B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-----------|---------------|-------------------|
| CKGD x 2 | 240 | 345* | Ratio 3:1 | 1" | \$ 1216.00 |
| HS4603P16B manifold only \$ 756.00 | | | | | |

- Manifold dimensions, 165 x 125 x 60mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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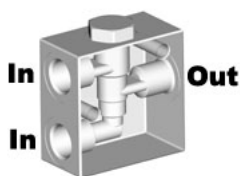
SHUTTLE VALVES

BALL SHUTTLE VALVES

Click on individual cartridges for more info

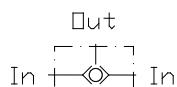


HS0830P4 or P6

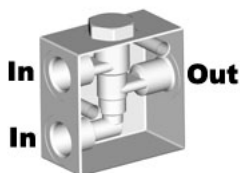


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-------|---------------|-------------------|
| LS08-30 | 19 | 240 | - | 1/4"-3/8" | \$ 196.00 |
| BDSV-08 | 11 | 350* | - | 1/4"-3/8" | \$ 187.00 |
| HS0830P4 or P6 manifold only \$ 127.00 | | | | | |

- Manifold dimensions, 75 x 60 x 37mm for P4, 75 x 65 x 37 for P6 (excluding cartridge)



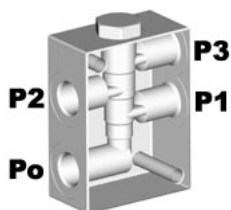
HS1030P6 or P8



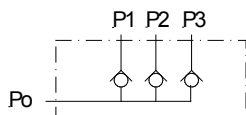
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-------|---------------|-------------------|
| LS10-30 | 30 | 240 | - | 3/8"-1/2" | \$ 201.00 |
| LS50-30 | 30 | 345* | - | 3/8"-1/2" | \$ 222.00 |
| HS1030P6 or P8 manifold only \$ 132.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS1040P6 or P8

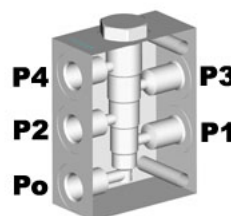


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------|---------------|-------------------|
| LS10-40 | 1.89 | 240 | Load shuttle network | 3/8"-1/2" | \$ 259.00 |
| HS1040P6 or P8 manifold only \$ 150.00 | | | | | |

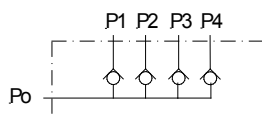


- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)

HS1050P6 or P8



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------|---------------|-------------------|
| LS10-50 | 1.89 | 240 | Load shuttle network | 3/8"-1/2" | \$ 395.00 |
| HS1050P6 or P8 manifold only \$ 252.00 | | | | | |



- Manifold dimensions, 99 x 75 x 39mm (excluding cartridge)

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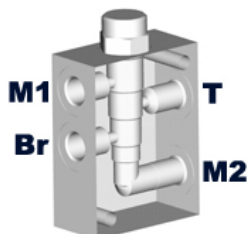
SHUTTLE VALVES

BRAKE RELEASE VALVES

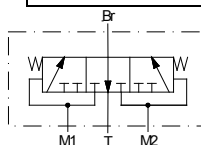
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HS1040P6 or P8

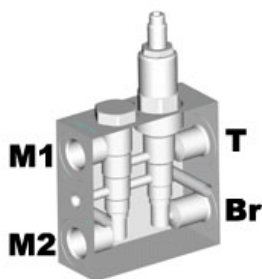


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|------------|---------------|-------------------|
| BV10-40 | 8 | 240 | Spool type | 3/8"-1/2" | \$ 357.00 |
| HS1040P6 or P8 manifold only \$ 150.00 | | | | | |

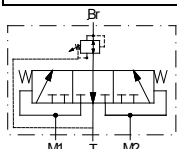


- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

HS9201P8P

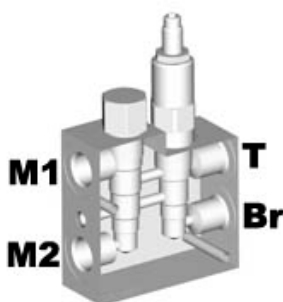


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--|---------------|-------------------|
| BV10-40 + PR10-32 | 8 | 207 | Designed for brake system operated on reduced pressure | 1/2" | \$ 754.00 |
| HS9201P8P manifold only \$ 395.00 | | | | | |

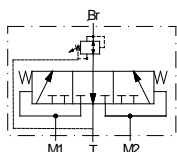


- Manifold dimensions, 100 x 100 x 39mm (excluding cartridge)

HS9210P8PS



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-------------|---------------|-------------------|
| SDSV-10 + PR50-36 | 19 | 345* | Steel block | 1/2" | \$ 913.00 |
| HS9210P8PS manifold only \$ 452.00 | | | | | |



- Manifold dimensions, 100 x 100 x 39mm (excluding cartridge)
- * Requires steel block over 240 bar – *contact Hyspecs* for pricing

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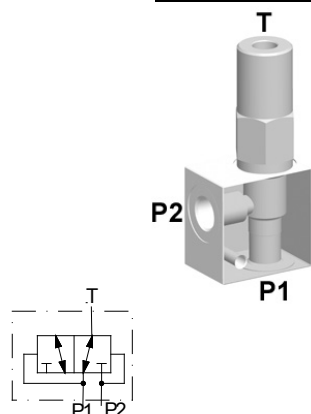
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SHUTTLE VALVES

HOT OIL SHUTTLE – FLUSHING VALVES *Click on individual cartridges for more info*



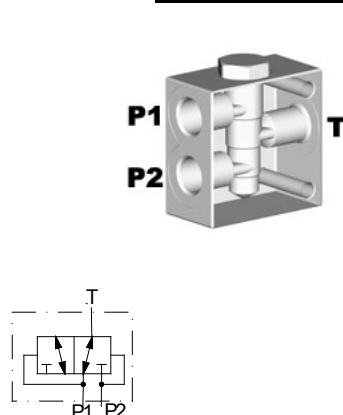
HS1020P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|---|---------------|----------------|
| HOSR-10 | 23 | 350* | Spring-less with built in adjustable relief valve | 3/8"-1/2" | \$ 396.00 |
| HS1020P6 or P8 manifold only \$ 86.00 | | | | | |

- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

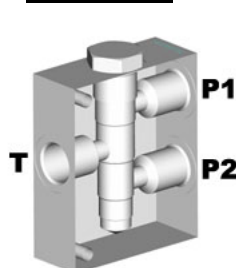
HS1040P6D or P8D



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------|---------------|----------------|
| HS10-42 | 38 | 207 | Spring-less | 3/8"-1/2" | \$ 373.00 |
| HS50-42 | 38 | 345* | Spring-less | 3/8"-1/2" | \$ 400.00 |
| HS50-43 | 38 | 345* | Spring centred | 3/8"-1/2" | \$ 428.00 |
| HS1040P6D or P8D manifold only \$ 143.00 | | | | | |

- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS1240P12D



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|----------------|---------------|----------------|
| HS52-42 | 125 | 345* | Spring-less | 3/4" | \$ 699.00 |
| HS52-43 | 125 | 345* | Spring centred | 3/4" | \$ 716.00 |
| HS1240P12D manifold only \$ 241.00 | | | | | |

- Manifold dimensions, 120 x 99 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

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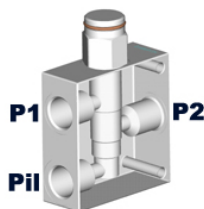
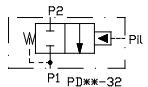
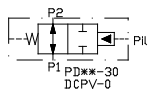
EXTERNAL PILOT OPERATED

2 WAY, 2 POSITION

Click on individual cartridges for more info

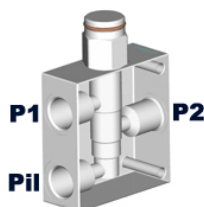
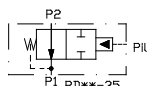
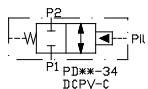


HS1030P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------|---------------|-------------------|
| PD10-30 | 38 | 240 | N.O. & external vent | 3/8"-1/2" | \$ 284.00 |
| PD10-32 | 38 | 240 | N.C. & internal vent | 3/8"-1/2" | \$ 284.00 |
| PD10-34 | 38 | 240 | N.C. & external vent | 3/8"-1/2" | \$ 284.00 |
| PD10-35 | 38 | 240 | N.O. & internal vent | 3/8"-1/2" | \$ 270.00 |
| DCPV-10-0 | 38 | 350* | N.O. & external vent | 3/8"-1/2" | \$ 312.00 |
| DCPV-10-C | 38 | 350* | N.C. & internal vent | 3/8"-1/2" | \$ 312.00 |
| HS1030P6 or P8 manifold only \$ 132.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing



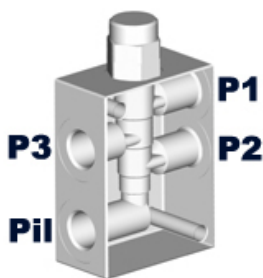
HS1230P12

| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|----------------------|---------------|-------------------|
| PD12-30 | 115 | 240 | N.O. & external vent | 3/4" | \$ 468.00 |
| PD12-32 | 115 | 240 | N.C. & internal vent | 3/4" | \$ 468.00 |
| PD12-34 | 115 | 240 | N.C. & external vent | 3/4" | \$ 468.00 |
| PD12-35 | 115 | 240 | N.O. & internal vent | 3/4" | \$ 456.00 |
| HS1230P12 manifold only \$ 241.00 | | | | | |

- Manifold dimensions, 99 x 75 x 39mm (excluding cartridge)

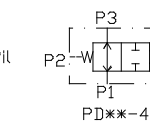
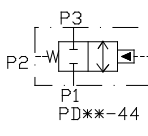
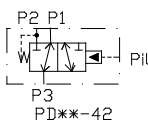
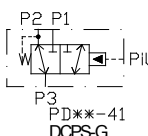
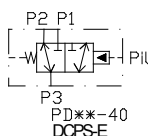
2 WAY or 3 WAY, 2 POSITION

HS1040P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-----------------------|---------------|-------------------|
| PD10-40 | 38 | 240 | 3-way & external vent | 3/8"-1/2" | \$ 321.00 |
| PD10-41 | 45 | 240 | 3-way & internal vent | 3/8"-1/2" | \$ 302.00 |
| PD10-42 | 38 | 240 | 3-way & internal vent | 3/8"-1/2" | \$ 302.00 |
| PD10-44 | 34 | 240 | 2-way, N.C. ext. vent | 3/8"-1/2" | \$ 302.00 |
| PD10-45 | 45 | 240 | 2-way, N.O. ext. vent | 3/8"-1/2" | \$ 302.00 |
| DCPS-10-E | 46 | 350* | 3-way & external vent | 3/8"-1/2" | \$ 330.00 |
| DCPS-10-G | 46 | 350* | 3-way & external vent | 3/8"-1/2" | \$ 330.00 |
| HS1040P6 or P8 manifold only \$ 150.00 | | | | | |

- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – contact Hyspecs for pricing



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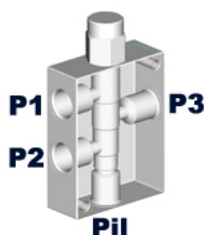
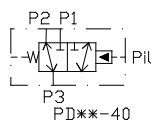
E-mail: hyspecs@hyspecs.co.nz

EXTERNAL PILOT OPERATED

2 WAY, 3 WAY or 4 WAY, 2 POSITION *Click on individual cartridges for more info*



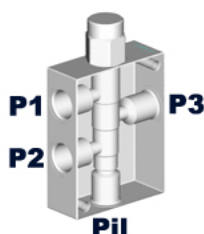
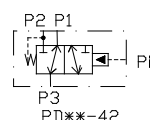
HS1240P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------------------|---------------|----------------|
| PD12-40 | 115 | 240 | 3-way & external vent | 3/4" | \$ 509.00 |
| PD12-41 | 115 | 240 | 3-way & internal vent | 3/4" | \$ 509.00 |
| PD12-42 | 115 | 240 | 3-way & internal vent | 3/4" | \$ 509.00 |
| PD12-44 | 115 | 240 | 2-way, N.C. ext. vent | 3/4" | \$ 509.00 |
| PD12-45 | 115 | 240 | 2-way, N.O. ext. vent | 3/4" | \$ 509.00 |
| DCPS-12-F | 91 | 350* | 3-way & external vent | 3/4" | \$ 532.00 |
| HS1240P12 manifold only \$ 252.00 | | | | | |

- Manifold dimensions, 130 x 99 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

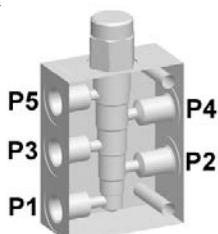
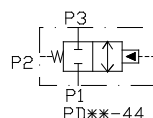
HS1640P12 or P16



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-----------------------|---------------|----------------|
| PD16-40 | 170 | 240 | 3-way & external vent | 3/4"-1" | \$ 590.00 |
| PD16-41 | 170 | 240 | 3-way & internal vent | 3/4"-1" | \$ 590.00 |
| PD16-42 | 170 | 240 | 3-way & internal vent | 3/4"-1" | \$ 590.00 |
| PD16-44 | 170 | 240 | 2-way, N.C. ext. vent | 3/4"-1" | \$ 590.00 |
| PD16-45 | 170 | 240 | 2-way, N.O. ext. vent | 3/4"-1" | \$ 590.00 |
| DCPS-16-F | 136 | 350* | 3-way & external vent | 3/4"-1" | \$ 646.00 |
| HS1640P12 or P16 manifold only \$ 286.00 | | | | | |

- Manifold dimensions, 135 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *contact Hyspecs* for pricing

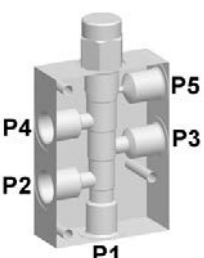
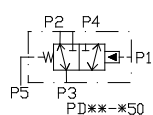
HS1050P6



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|----------------------------------|----------------|--------------|---------------------|---------------|----------------|
| PD10-50 | 30 | 240 | 3-way & ported vent | 1/2" | \$ 467.00 |
| HS1050P6 manifold only \$ 252.00 | | | | | |

- Manifold dimensions, 100 x 75 x 39mm (excluding cartridge)

HS1245P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---------------------|---------------|----------------|
| PD12-S50 | 95 | 240 | 3-way & ported vent | 3/4" | \$ 610.00 |
| HS1245P12 manifold only \$ 310.00 | | | | | |

- Manifold dimensions, 139 x 99 x 39mm (excluding cartridge)

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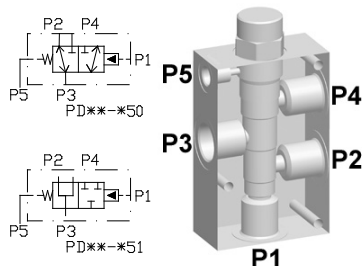
EXTERNAL PILOT OPERATED

2 WAY, 3 WAY or 4 WAY, 2 OR 3 POSITION

[Click on individual cartridges for more info](#)



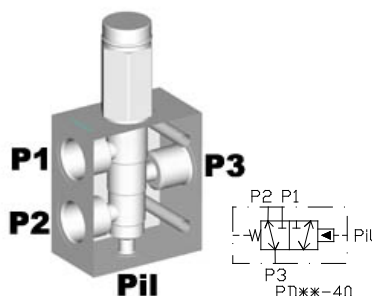
HS1645P16



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---------------------|---------------|-------------------|
| PD16-S50 | 170 | 240 | 3-way & ported vent | 1", 1/4" P5 | \$ 725.00 |
| PD16-S51 | 151 | 240 | 3-way & all N.O. | 1", 1/4" P5 | \$ 800.00 |
| HS1645P16 manifold only \$ 405.00 | | | | | |

- Manifold dimensions, 160 x 100 x 50mm (excluding cartridge)

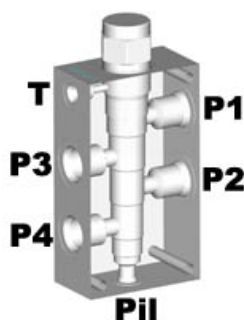
HS4240P20S



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|----------------------------------|-----------------|-------------------|
| PD42-M40 | 265 | 345 | 3 way, 2 position, external vent | 1 1/4" 1/4" Pil | \$ 1357.00 |
| PD42-M41 | 265 | 345 | 3 way, 2 position, internal vent | 1 1/4" 1/4" Pil | \$ 1333.00 |
| PD42-M42 | 265 | 345 | 3 way, 2 position, internal vent | 1 1/4" 1/4" Pil | \$ 1333.00 |
| PD42-M45 | 265 | 345 | 3 way, 2 position, external vent | 1 1/4" 1/4" Pil | \$ 1333.00 |
| HS4240P20S manifold only \$ 733.00 | | | | | |

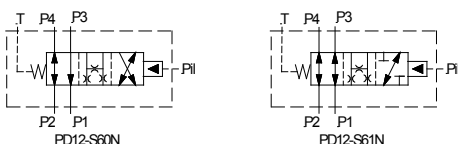
- Manifold dimensions, 145 x 125 x 75mm (excluding cartridge)
- Steel manifold

HS1255U17



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-----------------------------------|----------------|--------------|-----------------------------------|----------------------|-------------------|
| PD12-S60N | 56 | 240 | 4 way, 2 position, external drain | 1 1/16" 1/4" T & Pil | \$ 635.00 |
| PD12-S61N | 56 | 240 | 4 way, 2 position, external drain | 1 1/16" 1/4" T & Pil | \$ 635.00 |
| HS1255U17 manifold only \$ 360.00 | | | | | |

- Manifold dimensions, 150 x 100 x 50mm (excluding cartridge)



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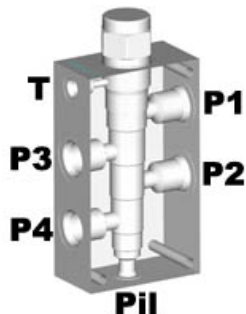
EXTERNAL PILOT OPERATED

2 WAY, 3 WAY or 4 WAY, 2 OR 3 POSITION

Click on individual cartridges for more info

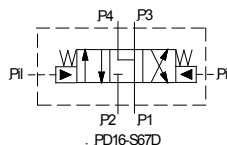
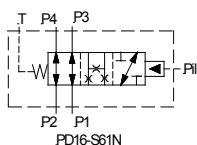
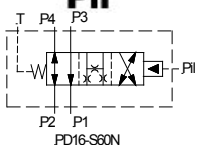


HS1655U17



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-----------------------------------|----------------|--------------|--------------------------------------|--------------|-------------------|
| PD16-S60N | 151 | 240 | 4 way, 2 position, external drain | 1 1/16" | \$ 745.00 |
| PD16-S61N | 151 | 240 | 4 way, 2 position, external drain | 1 1/16" | \$ 745.00 |
| PD16-S67D | 95 | 240 | 4 way, 3 position | 1 1/16" | \$ 745.00 |
| HS1655U17 manifold only \$ 436.00 | | | | | |

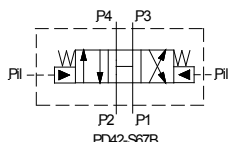
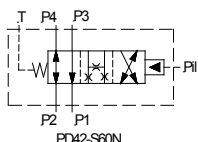
- Manifold dimensions, 177 x 100 x 55mm (excluding cartridge)



HS4255P20S

CONTACT HYSPECS

| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|--------------------------------------|---------------------------|-------------------|
| PD42-S60N | 189 | 325 | 4 way, 2 position, external drain | 1 1/4" 1/4" T & Pil | \$ 1210.00 |
| PD42-S67B | 189 | 325 | 4 way, 3 position, open centre | 1 1/4" 1/4" T & Pil | \$ 1120.00 |
| HS4255P20S manifold only \$ 575.00 | | | | | |



- Manifold dimensions, 190 x 125 x 75mm (excluding cartridge)
- Steel manifold

Cartridge Catalogue 2012



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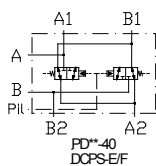
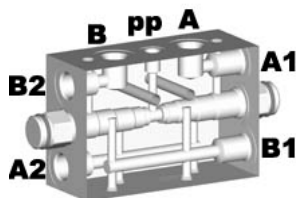
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EXTERNAL PILOT OPERATED



PARALLEL-SERIES VALVES *Click on individual cartridges for more info*

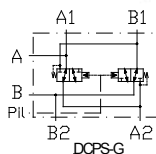
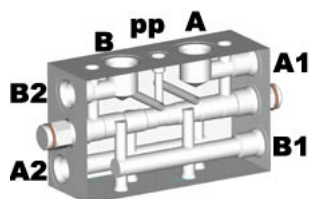
HS9380P8B



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---|---------------|-------------------|
| PD10-40 x 2 | 70 | 240 | Series-parallel, 1/4" pilot port | 1/2" | \$ 925.00 |
| DCPS-10-E x 2 | 46 | 350* | Series-parallel, 1/4" pp open on changeover | 1/2" | \$ 943.00 |
| DCPS-10-G x 2 | 46 | 350* | Parallel-series, 1/4" pp open on changeover | 1/2" | \$ 943.00 |
| HS9380P8B manifold only \$ 583.00 | | | | | |

- Manifold dimensions, 150 x 100 x 60mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

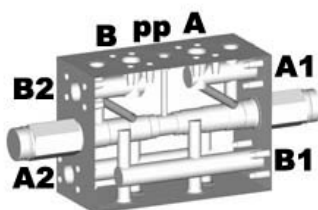
HS9381U17B



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| PD12-40 x 2 | 220 | 240 | Series-parallel, 1/4" pilot port | 3/4" | \$ 1150.00 |
| DCPS-12-F x 2 | 91 | 350* | Parallel-series, 1/4" pp closed on changeover | 3/4" | \$ 1356.00 |
| HS9381U17B manifold only \$ 636.00 | | | | | |

- Manifold dimensions, 210 x 126 x 75mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

HS9382BS



| Cartridge Options | Q max l/min | P max bar | Notes | Ports SAE | Assembly Price |
|-----------------------------------|----------------|--------------|--|----------------|-------------------|
| PD42-M40 x 2 | 500 | 344* | Series-parallel, 3/8" pilot port, steel | 1 1/4" code 61 | \$ 2963.00 |
| HS9382BS manifold only \$ 1715.00 | | | | | |

- Manifold dimensions, 280 x 200 x 126mm (excluding cartridge)

HS9386P16B

| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| PD16-40 x 2 | 170 | 240 | Series-parallel, 1/4" pilot port | 1" | \$ 1183.00 |
| DCPS-16-E x 2 | 136 | 350* | Series-parallel, 1/4" pp open on changeover | 1" | \$ 1295.00 |
| DCPS-16-G x 2 | 136 | 350* | Parallel-series, 1/4" pp open on changeover | 1" | \$ 1295.00 |
| HS9386P16B manifold only \$ 575.00 | | | | | |

- Manifold dimensions, *contact Hyspecs*
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

CONTACT HYSPECS

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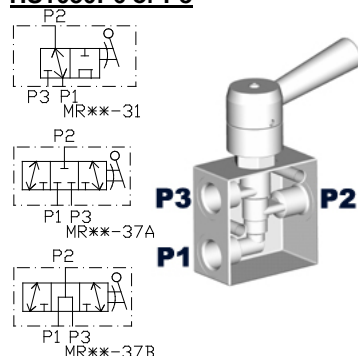
MANUALLY OPERATED - ROTARY

3 WAY, 2 or 3 POSITION

Click on individual cartridges for more info



HS1030P6 or P8

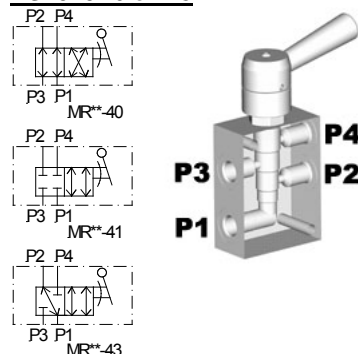


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------------------|---------------|----------------|
| MR10-31 | 38 | 240 | 3-way, 2-position | 3/8"-1/2" | \$ 442.00 |
| MR10-37A | 38 | 240 | 3-way, 3-position, closed centre | 3/8"-1/2" | \$ 486.00 |
| MR10-37B | 38 | 240 | 3-way, 3-position, open centre | 3/8"-1/2" | \$ 486.00 |
| HS1030P6 or P8 manifold only \$ 132.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

4 WAY, 2 POSITION

HS1040P6 or P8

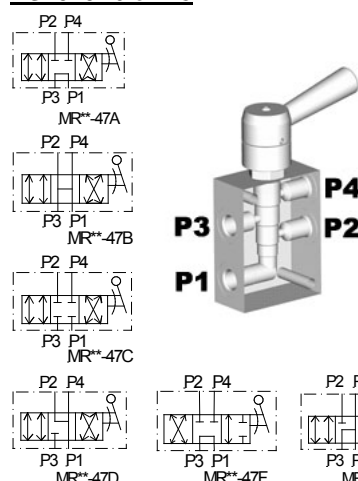


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|------------------------------------|---------------|----------------|
| MR10-40 | 11 | 240 | 4-way, 2-position, normally open | 3/8"-1/2" | \$ 529.00 |
| MR10-41 | 11 | 240 | 4-way, 2-position, normally closed | 3/8"-1/2" | \$ 540.00 |
| MR10-43 | 11 | 240 | 4-way, 2 position | 3/8"-1/2" | \$ 540.00 |
| HS1040P6 or P8 manifold only \$ 150.00 | | | | | |

- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)

4 WAY, 3 POSITION

HS1040P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------------------|---------------|----------------|
| MR10-47A | 11 | 240 | 4-way, 3-position, tandem centre | 3/8"-1/2" | \$ 578.00 |
| MR10-47B | 11 | 240 | 4-way, 3-position, open centre | 3/8"-1/2" | \$ 578.00 |
| MR10-47C | 11 | 240 | 4-way, 3-position, closed centre | 3/8"-1/2" | \$ 578.00 |
| MR10-47D | 11 | 240 | 4-way, 3-position, motor spool | 3/8"-1/2" | \$ 578.00 |
| MR10-47F | 11 | 240 | 4-way, 3-position | 3/8"-1/2" | \$ 578.00 |
| MR10-47G | 11 | 240 | 4-way, 3-position | 3/8"-1/2" | \$ 578.00 |
| HS1040P6 or P8 manifold only \$ 150.00 | | | | | |

- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)

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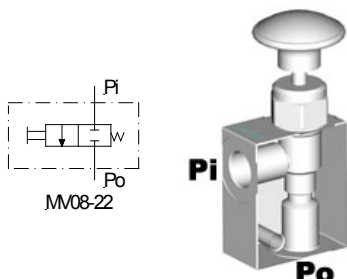
MANUALLY OPERATED - PUSH / PULL



2 WAY, 2 POSITION

Click on individual cartridges for more info

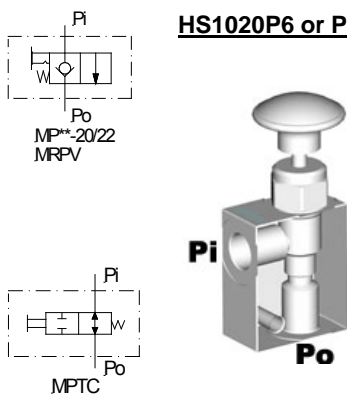
HS0820P4 or P6



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|-----------------------------|---------------|-------------------|
| MV08-22 | 38 | 207 | Push to open, spring return | 1/4"-3/8" | \$ 179.00 |
| MP08-20 | 53 | 207 | Pull to open, spring return | 1/4"-3/8" | \$ 216.00 |
| HS0820P4 or P6 manifold only \$ 78.00 | | | | | |

- Manifold dimensions, 50 x 45 x 25mm (excluding cartridge)

HS1020P6 or P8

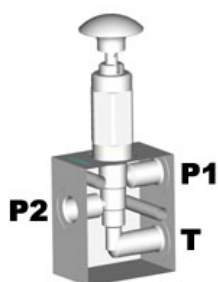


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|---|---------------|-------------------|
| MP10-20 | 57 | 207 | Pull to open, detent spring return | 3/8"-1/2" | \$ 224.00 |
| MP10-22 | 57 | 207 | Pull to open, spring return, detent, higher tank press. | 3/8"-1/2" | \$ 266.00 |
| MPTC-10 | 23 | 350* | Push to close, spring return | 3/8"-1/2" | \$ 286.00 |
| MRPV-10 | 70 | 350* | Pull to open, spring return | 3/8"-1/2" | \$ 226.00 |
| HS1020P6 or P8 manifold only \$ 86.00 | | | | | |

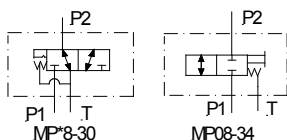
- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

3 WAY, 2 POSITION

HS0830P4 or P6



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| MP08-30 | 23 | 240 | Pull to shift, spring return, detent | 1/4"-3/8" | \$ 311.00 |
| MP08-34 | 38 | 240 | Pull to shift, spring return, normally closed, ext. vent | 1/4"-3/8" | \$ 311.00 |
| MP58-30 | 23 | 350* | Pull to shift, spring return, detent | 1/4"-3/8" | \$ 342.00 |
| HS0830P4 or P6 manifold only \$ 127.00 | | | | | |



- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

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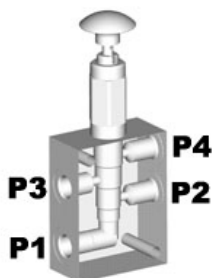
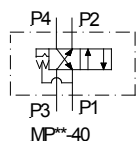
MANUALLY OPERATED - PUSH / PULL

4 WAY, 2 POSITION

Click on individual cartridges for more info



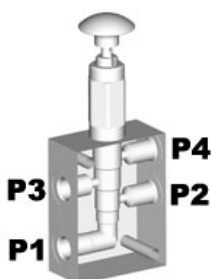
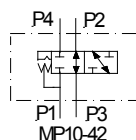
HS0840P4 or P6



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| MP08-40 | 12 | 240 | Pull to shift, spring return, N.O, detent | 1/4"-3/8" | \$ 309.00 |
| MP08-41 | 12 | 240 | Pull to shift, spring return, N.C, detent | 1/4"-3/8" | \$ 309.00 |
| HS0840P4 or P6 manifold only \$ 138.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

HS1040P6 or P8

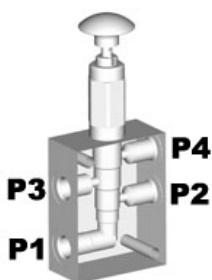
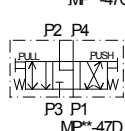
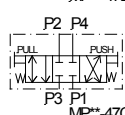
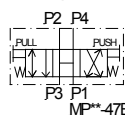
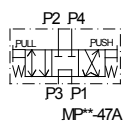


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| MP10-40 | 23 | 207 | Pull to shift, spring return, N.O, detent | 3/8"-1/2" | \$ 368.00 |
| MP10-41 | 23 | 207 | Pull to shift, spring return, N.C, detent | 3/8"-1/2" | \$ 368.00 |
| MP10-42 | 34 | 240 | Pull to shift, spring return, detent | 3/8"-1/2" | \$ 368.00 |
| MP10-43 | 34 | 207 | Pull to shift, spring return, detent | 3/8"-1/2" | \$ 368.00 |
| MD10-40 | 38 | 207 | Push to shift, spring return, N.O | 3/8"-1/2" | \$ 368.00 |
| HS1040P6 or P8 manifold only \$ 150.00 | | | | | |

- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)

4 WAY, 3 POSITION

HS1040P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---------------------------------------|---------------|-------------------|
| MP10-47A | 15 | 207 | Pull/push to shift, spring return, TC | 3/8"-1/2" | \$ 345.00 |
| MP10-47B | 11 | 207 | Pull/push to shift, spring return, OC | 3/8"-1/2" | \$ 345.00 |
| MP10-47C | 23 | 207 | Pull/push to shift, spring return, CC | 3/8"-1/2" | \$ 345.00 |
| MP10-47D | 23 | 207 | Pull/push to shift, spring return, MS | 3/8"-1/2" | \$ 345.00 |
| HS1040P6 or P8 manifold only \$ 150.00 | | | | | |

- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)

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CONTENTS SECTION D – SOLENOID VALVES**D1 Solenoid Valves**

| | |
|-----|--|
| D1 | 2 Way, 2 Position |
| D6 | 3 Way, 2 Position |
| D8 | 3 Way, 3 Position |
| D8 | 4 Way, 2 Position |
| D10 | 4 Way, 3 Position |
| D11 | 5 Way, 3 Position |
| D12 | 6 Way, 2 Position |
| D13 | Single Acting Cylinder Lift / Lower Valves |
| D14 | Start / Stop Valves – Motor Banjo Bolt Mounted |

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SOLENOID VALVES

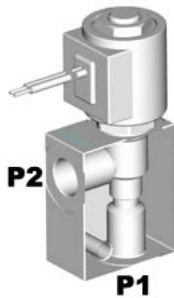
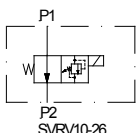
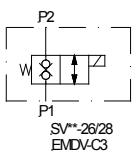
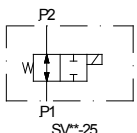
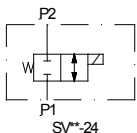
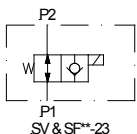
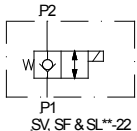
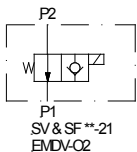
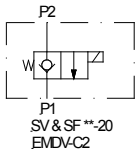
Solenoid valves are priced with flying leads (DC only) unless otherwise stated. AC coils are DIN plug only. Hirschman / DIN plugs are not included in the price.



2 WAY, 2 POSITION

[Click on individual cartridges for more info](#)

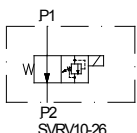
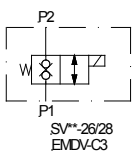
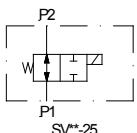
HS0820P4 or P6



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|-------------------------|---------------|-------------------|
| SV08-20 | 30 | 207 | N.C. poppet, one way | 1/4"-3/8" | \$ 227.00 |
| SF08-20 | 27 | 345* | High Pressure | 1/4"-3/8" | \$ 293.00 |
| SV38-20J | 23 | 207 | Manual override | 1/4"-3/8" | \$ 439.00 |
| SV58-20 | 38 | 345* | High pressure | 1/4"-3/8" | \$ 331.00 |
| SV08-21 | 38 | 207 | N.O. poppet, one way | 1/4"-3/8" | \$ 262.00 |
| SF08-21 | 38 | 345* | High pressure | 1/4"-3/8" | \$ 296.00 |
| SL08-22 | 1.5 | 207 | N.C. low flow, both way | 1/4"-3/8" | \$ 308.00 |
| SV08-22 | 30 | 207 | N.C. poppet, both ways | 1/4"-3/8" | \$ 242.00 |
| SF08-22 | 23 | 345* | High pressure | 1/4"-3/8" | \$ 299.00 |
| SV58-22 | 23 | 345* | High pressure | 1/4"-3/8" | \$ 354.00 |
| SV08-23 | 30 | 207 | N.O. poppet, both ways | 1/4"-3/8" | \$ 279.00 |
| SF08-23 | 38 | 345* | High pressure | 1/4"-3/8" | \$ 313.00 |
| SV08-24 | 17 | 207 | N.C. spool, both ways | 1/4"-3/8" | \$ 225.00 |
| SV58-24 | 17 | 345* | High pressure | 1/4"-3/8" | \$ 290.00 |
| SV08-25 | 9 | 207 | N.O. spool, both ways | 1/4"-3/8" | \$ 233.00 |
| SV58-25 | 9 | 345* | High pressure | 1/4"-3/8" | \$ 326.00 |
| SV08-26 | 2 | 207 | N.C. blocking both ways | 1/4"-3/8" | \$ 233.00 |
| SV58-26 | 2 | 345* | High pressure | 1/4"-3/8" | \$ 318.00 |
| SV38-26 | 3.4 | 207 | N.C. blocking both ways | 1/4"-3/8" | \$ 302.00 |
| SV38-28 | 19 | 207 | N.C. blocking both ways | 1/4"-3/8" | \$ 410.00 |
| HS0820P4 or P6 manifold only \$ 78.00 | | | | | |

- Manifold dimensions, 50 x 45 x 25mm (excluding cartridge)
- *Requires steel block over 280 bar – [contact Hyspecs](#) for pricing
- Manual override available for most cartridges

HS1020P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|--|---------------|------------------------|
| SV10-20 | 57 | 207 | N.C. poppet, one way | 3/8"-1/2" | \$ 270.00 |
| SV10-21 | 68 | 207 | N.O. poppet, one way | 3/8"-1/2" | \$ 309.00 |
| SV10-22 | 57 | 207 | N.C. poppet, both ways | 3/8"-1/2" | \$ 275.00 |
| SV10-23 | 68 | 207 | N.O. poppet, both ways | 3/8"-1/2" | \$ 321.00 |
| SV10-24 | 57 | 207 | N.C. spool, both ways | 3/8"-1/2" | \$ 257.00 |
| SV10-25 | 23 | 207 | N.O. spool, both ways | 3/8"-1/2" | \$ 270.00 |
| SV10-28 or SV10-29 | 76 | 240 | N.C. or N.O. poppet blocking bi-directional | 3/8"-1/2" | \$ 314.00 \$ 332.00 |
| SVRV10-26 | 57 | 276 | N.O. spool with fixed relief when closed | 3/8"-1/2" | \$ 383.00 |
| EMDV-10-C2 | 60 | 350* | N.C. pilot operated pop. | 3/8"-1/2" | \$ 331.00 |
| EMDV-10-C3 | 22 | 350* | N.C. poppet blocking | 3/8"-1/2" | \$ 496.00 |
| EMDV-10-O2 | 60 | 350* | N.O. bi-directional pop. | 3/8"-1/2" | \$ 366.00 |
| HS1020P6 or P8 manifold only \$ 86.00 | | | | | |

- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)
- Manual override available for most cartridges
- *Requires steel block over 280 bar – [contact Hyspecs](#) for pricing

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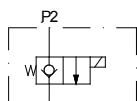
SOLENOID VALVES

2 WAY, 2 POSITION

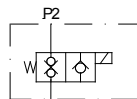
Click on individual cartridges for more info



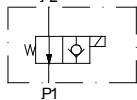
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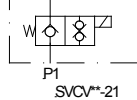
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EMDV-C2



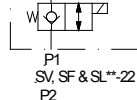
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SVCV**20



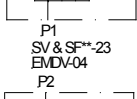
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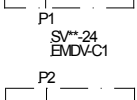
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SVCV**21



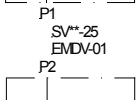
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EMDV-C2



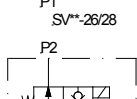
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EMDV-C2



P1
SV & SF**24
EMDV-C1



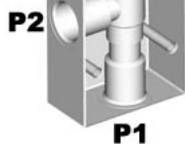
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SV & SF**26/28



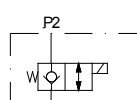
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SV & SF**29



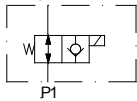
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--------------------------------------|---------------|-------------------|
| SV12-20 | 113 | 240 | N.C. poppet, one way | 3/4" | \$ 427.00 |
| SV12-21 | 113 | 240 | N.O. poppet, one way | 3/4" | \$ 464.00 |
| SV12-22 | 113 | 240 | N.C. poppet, both ways | 3/4" | \$ 439.00 |
| SV12-23 | 113 | 240 | N.O. poppet, both ways | 3/4" | \$ 628.00 |
| SV12-24* | 80 | 240 | N.C. spool, both ways | 3/4" | \$ 602.00 |
| SV12-25* | 80 | 240 | N.O. spool, both ways | 3/4" | \$ 625.00 |
| SV12-28 | 113 | 240 | N.C. poppet, bi-directional blocking | 3/4" | \$ 452.00 |
| SV12-29 | 113 | 240 | N.O. poppet, bi-directional blocking | 3/4" | \$ 469.00 |
| HS1220P12 manifold only \$ 155.00 | | | | | |

- Manifold dimensions, 85 x 75 x 50mm (excluding cartridge)
- Manual override available for most cartridges
- * Special coil

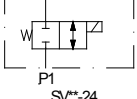
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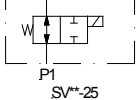
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SV, SF & SL**22
P2



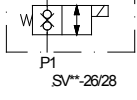
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SV & SF**23
EMDV-O4



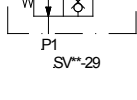
P1
SV**24
EMDV-C1



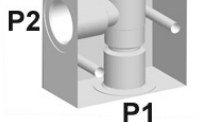
P1
SV**25
EMDV-O1



P1
SV**26/28



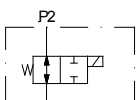
P1
SV**29



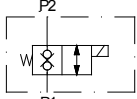
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|----------------------------|---------------|-------------------|
| EMDV-12-C2 | 136 | 350* | N.C. pilot operated poppet | 3/4" | \$ 515.00 |
| EMDV-12-O4 | 136 | 350* | N.O. pilot operated poppet | 3/4" | \$ 585.00 |
| EMDV-12-C1 | 68 | 350* | N.C. spool both ways | 3/4" | \$ 565.00 |
| EMDV-12-O1 | 68 | 350* | N.O. spool both ways | 3/4" | \$ 565.00 |
| HS1221P12 manifold only \$ 155.00 | | | | | |

- Manifold dimensions, 75 x 75 x 40mm (excluding cartridge)
- *Requires steel block over 280 bar – contact Hyspecs for pricing

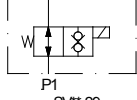
HS1620P12 or P16



P1
SV**25
EMDV-O1



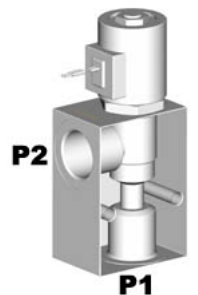
P1
SV**26/28



P1
SV**29



P1
SV**29



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|----------------------------|---------------|-------------------|
| SV16-20 | 130 | 207 | N.C. poppet, one way | 3/4"-1" | \$ 518.00 |
| SV16-21 | 130 | 207 | N.O. poppet, one way | 3/4"-1" | \$ 550.00 |
| SV16-22 | 130 | 207 | N.C. poppet, both ways | 3/4"-1" | \$ 521.00 |
| SV16-23 | 130 | 207 | N.O. poppet, both ways | 3/4"-1" | \$ 561.00 |
| EMDV-16-C2 | 190 | 350* | N.C. pilot operated poppet | 3/4"-1" | \$ 639.00 |
| EMDV-16-O4 | 190 | 350* | N.O. pilot operated poppet | 3/4"-1" | \$ 699.00 |
| HS1620P12 or P16 manifold only \$ 189.00 or \$ 207.00 | | | | | |

- Manifold dimensions, 100 x 70 x 50mm (excluding cartridge)
- Manual override available for most cartridges
- *Requires steel block over 280 bar – contact Hyspecs for pricing

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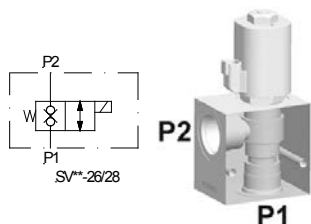
SOLENOID VALVES

2 WAY, 2 POSITION

Click on individual cartridges for more info



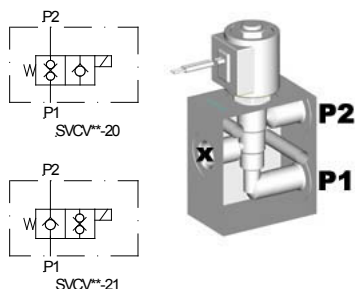
HS2020U21S



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|------------------------|--------------|-------------------|
| SF20-22 | 303 | 345 | N.C. poppet, 08 coil | 1 1/16" | \$ 855.00 |
| SF20-23 | 303 | 345 | N.O. poppet, 08 coil | 1 1/16" | \$ 912.00 |
| SV20-28 | 303 | 207 | N.C. poppet, 12 E coil | 1 1/16" | \$ 1237.00 |
| HS2020U21S manifold only \$ 464.00 | | | | | |

- Manifold dimensions, 100 x 100 x 75mm (excluding cartridge)

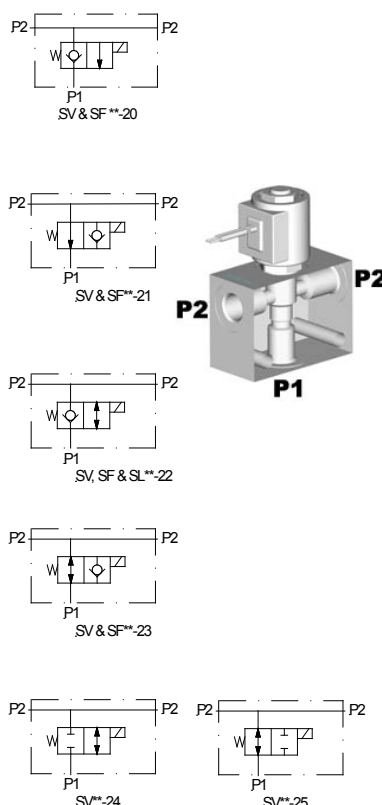
HS0830P4 or P6



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|------------------------------------|---------------|-------------------|
| SVCV08-20 | 23 | 207 | N.C. poppet with outlet flow check | 1/4"-3/8" | \$ 323.00 |
| SVCV08-21 | 23 | 207 | N.O. poppet with outlet flow check | 1/4"-3/8" | \$ 302.00 |
| HS0830P4 or P6 manifold only \$ 127.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- Manual override available for most cartridges

HS0820P4T or P6T



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-------------------------|---------------|-------------------|
| SV08-20 | 30 | 207 | N.C. poppet, one way | 1/4"-3/8" | \$ 262.00 |
| SF08-20 | 27 | 345* | High Pressure | 1/4"-3/8" | \$ 274.00 |
| SV38-20J | 23 | 207 | Manual override | 1/4"-3/8" | \$ 474.00 |
| SV58-20 | 38 | 345* | High pressure | 1/4"-3/8" | \$ 366.00 |
| SV08-21 | 38 | 207 | N.O. poppet, one way | 1/4"-3/8" | \$ 297.00 |
| SF08-21 | 38 | 345* | High pressure | 1/4"-3/8" | \$ 331.00 |
| SL08-22 | 1.5 | 207 | N.C. low flow, both way | 1/4"-3/8" | \$ 304.00 |
| SV08-22 | 30 | 207 | N.C. poppet, both ways | 1/4"-3/8" | \$ 277.00 |
| SF08-22 | 23 | 345* | High pressure | 1/4"-3/8" | \$ 334.00 |
| SV58-22 | 23 | 345* | High pressure | 1/4"-3/8" | \$ 389.00 |
| SV08-23 | 30 | 207 | N.O. poppet, both ways | 1/4"-3/8" | \$ 314.00 |
| SF08-23 | 38 | 345* | High pressure | 1/4"-3/8" | \$ 394.00 |
| SV08-24 | 17 | 207 | N.C. spool, both ways | 1/4"-3/8" | \$ 260.00 |
| SV58-24 | 17 | 345* | High pressure | 1/4"-3/8" | \$ 325.00 |
| SV08-25 | 9 | 207 | N.O. spool, both ways | 1/4"-3/8" | \$ 268.00 |
| SV58-25 | 9 | 345* | High pressure | 1/4"-3/8" | \$ 361.00 |
| SV08-26 | 2 | 207 | N.C. blocking both ways | 1/4"-3/8" | \$ 268.00 |
| SV58-26 | 2 | 345* | High pressure | 1/4"-3/8" | \$ 353.00 |
| SV38-26 | 3.4 | 207 | N.C. blocking both ways | 1/4"-3/8" | \$ 337.00 |
| SV38-28 | 19 | 207 | N.C. blocking both ways | 1/4"-3/8" | \$ 445.00 |
| HS0820P4T or P6T manifold only \$ 113.00 | | | | | |

- Manifold dimensions, 75 x 50 x 37mm (excluding cartridge)
- Manual override available for most cartridges
- *Requires steel block over 280 bar – contact Hyspecs for pricing

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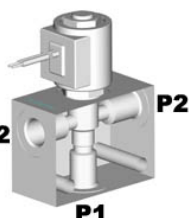
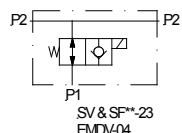
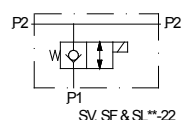
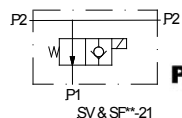
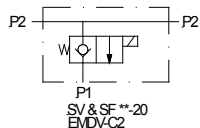
SOLENOID VALVES

2 WAY, 2 POSITION

Click on individual cartridges for more info

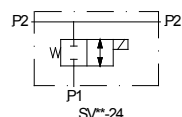


HS1020P6T or P8T

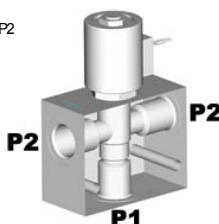
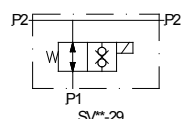
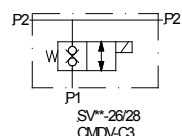
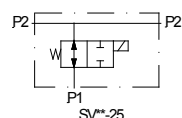


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| SV10-20 | 57 | 207 | N.C. poppet, one way | 3/8"-1/2" | \$ 286.00 |
| SV10-21 | 68 | 207 | N.O. poppet, one way | 3/8"-1/2" | \$ 325.00 |
| SV10-22 | 57 | 207 | N.C. poppet, both ways | 3/8"-1/2" | \$ 291.00 |
| SV10-23 | 68 | 207 | N.O. poppet, both ways | 3/8"-1/2" | \$ 337.00 |
| SV10-24 | 57 | 207 | N.C. spool, both ways | 3/8"-1/2" | \$ 273.00 |
| SV10-25 | 23 | 207 | N.O. spool, both ways | 3/8"-1/2" | \$ 286.00 |
| SV10-28 | 76 | 240 | N.C. poppet blocking bi-directional | 3/8"-1/2" | \$ 330.00 |
| SV10-29 | 76 | 240 | N.O. poppet blocking bi-directional | 3/8"-1/2" | \$ 348.00 |
| SVRV10-26 | 57 | 276 | N.O. spool with fixed relief when closed | 3/8"-1/2" | \$ 399.00 |
| EMDV-10-C2 | 60 | 350* | N.C. pilot operated poppet | 3/8"-1/2" | \$ 347.00 |
| EMDV-10-C3 | 22 | 350* | N.C. poppet blocking | 3/8"-1/2" | \$ 512.00 |
| EMDV-10-O4 | 60 | 350* | N.O. bi-directional poppet | 3/8"-1/2" | \$ 407.00 |
| HS1020P6T or P8T manifold only \$ 102.00 | | | | | |

- Manifold dimensions, 75 x 60 x 37mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing
- Manual override available for most cartridges



HS1220P12T



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|--------------------------------------|---------------|-------------------|
| SV12-20 | 113 | 240 | N.C. poppet, one way | 3/4" | \$ 444.00 |
| SV12-21 | 113 | 240 | N.O. poppet, one way | 3/4" | \$ 481.00 |
| SV12-22 | 113 | 240 | N.C. poppet, both ways | 3/4" | \$ 456.00 |
| SV12-23 | 113 | 240 | N.O. poppet, both ways | 3/4" | \$ 645.00 |
| SV12-24* | 80 | 240 | N.C. spool, both ways | 3/4" | \$ 619.00 |
| SV12-25* | 80 | 240 | N.O. spool, both ways | 3/4" | \$ 642.00 |
| SV12-28 | 113 | 240 | N.C. poppet, bi-directional blocking | 3/4" | \$ 469.00 |
| SV12-29 | 113 | 240 | N.O. poppet, bi-directional blocking | 3/4" | \$ 486.00 |
| HS1220P12T manifold only \$ 172.00 | | | | | |

- Manifold dimensions, 100 x 80 x 50mm (excluding cartridge)
- Manual override available for most cartridges
- * **Special coil**

Cartridge Catalogue 2012

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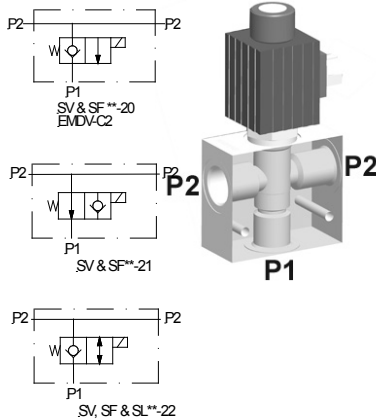
SOLENOID VALVES

2 WAY, 2 POSITION

Click on individual cartridges for more info



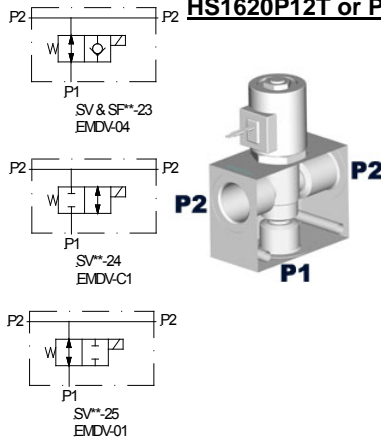
HS1221P12T



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|----------------------------|---------------|-------------------|
| EMDV-12-C2 | 136 | 350* | N.C. pilot operated poppet | 3/4" | \$ 515.00 |
| EMDV-12-O4 | 136 | 350* | N.O. pilot operated poppet | 3/4" | \$ 585.00 |
| EMDV-12-C1 | 68 | 350* | N.C. spool both ways | 3/4" | \$ 565.00 |
| EMDV-12-O1 | 68 | 350* | N.O. spool both ways | 3/4" | \$ 565.00 |
| HS1221P12T manifold only \$ 155.00 | | | | | |

- Manifold dimensions, 75 x 75 x 40mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

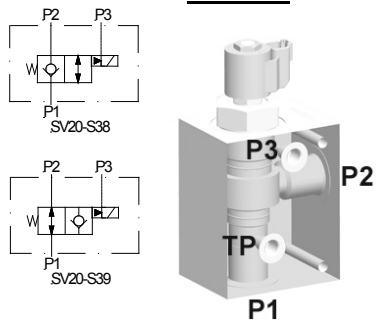
HS1620P12T or P16T



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|----------------------------|---------------|-------------------|
| SV16-20 | 130 | 207 | N.C. poppet, one way | 3/4"-1" | \$ 541.00 |
| SV16-21 | 130 | 207 | N.O. poppet, one way | 3/4"-1" | \$ 573.00 |
| SV16-22 | 130 | 207 | N.C. poppet, both ways | 3/4"-1" | \$ 544.00 |
| SV16-23 | 130 | 207 | N.O. poppet, both ways | 3/4"-1" | \$ 584.00 |
| EMDV-16-C2 | 190 | 350* | N.C. pilot operated poppet | 3/4"-1" | \$ 662.00 |
| EMDV-16-O4 | 190 | 350* | N.O. pilot operated poppet | 3/4"-1" | \$ 722.00 |
| HS1620P12T or P16T manifold only \$ 212.00 or \$ 223.00 | | | | | |

- Manifold dimensions, 100 x 80 x 50mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing
- Manual override available for most cartridges

HS2025P



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--|------------------------|-------------------|
| SV20-S38 | 378 | 293* | N.C. pilot operated poppet, 1/4" pilot | 1", 1/4" P3 & TP | \$ 793.00 |
| SV20-S39 | 378 | 293* | N.O. pilot operated poppet, 1/4" pilot | | \$ 842.00 |
| HS2025P16 manifold only \$ 378.00 | | | | | |

- Manifold dimensions, 126 x 100 x 75mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing
- Size 8 coil

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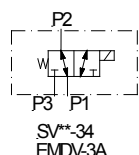
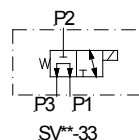
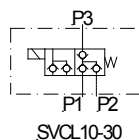
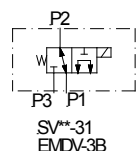
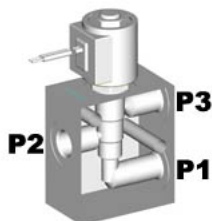
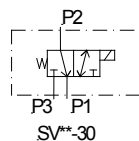
SOLENOID VALVES

3 WAY, 2 POSITION

Click on individual cartridges for more info



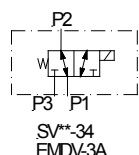
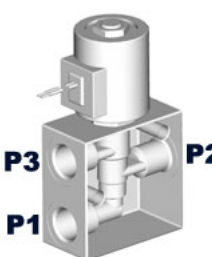
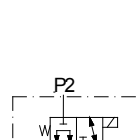
HS0830P4 or P6



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|------------------------------|---------------|----------------|
| SV08-30 | 15 | 207 | Common at 2 | 1/4"-3/8" | \$ 305.00 |
| SV58-30 | 15 | 345* | High pressure | 1/4"-3/8" | \$ 375.00 |
| SV08-31 | 11 | 207 | Common at 1 | 1/4"-3/8" | \$ 305.00 |
| SV08-33 | 11 | 207 | Common at 1 | 1/4"-3/8" | \$ 305.00 |
| SV38-38 | 11 | 207 | Common at 2, double blocking | 1/4"-3/8" | \$ 415.00 |

- HS0830P4 or P6 manifold only \$ 127.00
- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- *Requires steel block over 280 bar – contact Hyspecs for pricing
- Manual override available for most cartridges

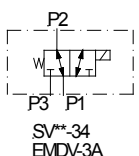
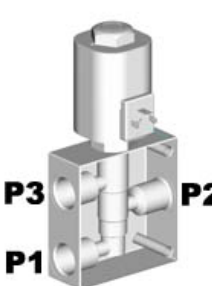
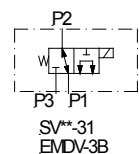
HS1030P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|----------------------|---------------|----------------|
| SV10-31 | 23 | 207 | Common at 1 | 3/8"-1/2" | \$ 327.00 |
| SV10-33 | 19 | 207 | Common at 1 | 3/8"-1/2" | \$ 339.00 |
| SV10-34 | 23 | 207 | Common at 2 | 3/8"-1/2" | \$ 342.00 |
| EMDV-10-3A | 30 | 350* | Common at 2 | 3/8"-1/2" | \$ 437.00 |
| EMDV-10-3B | 30 | 350* | Common at 1 | 3/8"-1/2" | \$ 452.00 |
| SVCL10-30 | 57 | 240 | N.C. with L.S. check | 3/8"-1/2" | \$ 342.00 |

- HS1030P6 or P8 manifold only \$ 132.00
- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- *Requires steel block over 280 bar – contact Hyspecs for pricing
- Manual override available for most cartridges

HS1230P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|-------------|---------------|----------------|
| SV12-31 | 65 | 240 | Common at 1 | 3/4" | \$ 732.00 |
| SV12-33 | 65 | 240 | Common at 1 | 3/4" | \$ 684.00 |
| SV12-34 | 65 | 240 | Common at 2 | 3/4" | \$ 732.00 |
| EMDV-12-3A | 60 | 350* | Common at 2 | 3/4" | \$ 686.00 |
| EMDV-12-3B | 60 | 350* | Common at 1 | 3/4" | \$ 691.00 |

- HS1230P12 manifold only \$ 241.00
- Manifold dimensions, 100 x 75 x 37mm (excluding cartridge)
- *Requires steel block over 280 bar – contact Hyspecs for pricing
- Manual override available for most cartridges
- Size 12 E Coil for SV12

Cartridge Catalogue 2012

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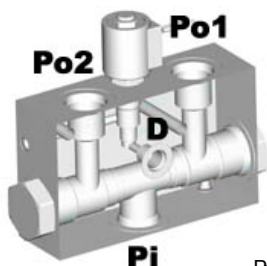
SOLENOID VALVES

3 WAY, 2 POSITION

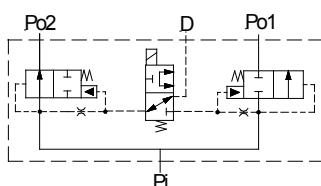
Click on individual cartridges for more info



HS9396U17C

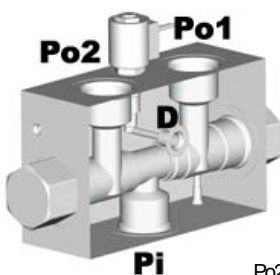


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|---|--------------------|-------------------|
| EV16-S34 x 2 + SV08-31 | 190 | 207 | Flow from P to A or B only. Drain port (9/16"UNO) must be connected directly to tank. | 1 1/16" 9/16" D | \$ 1093.00 |
| HS9396U17C manifold only \$ 515.00 | | | | | |

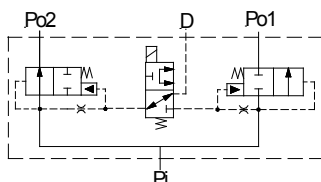


- Manifold dimensions, 160 x 100 x 50mm (excluding cartridges)

HS9397U26C

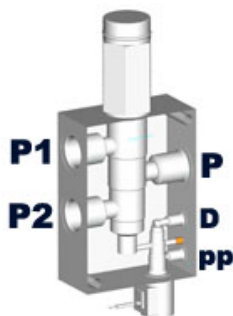


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|---|-------------------|-------------------|
| EV20-S34 x 2 + SV08-31 | 380 | 207 | Flow from P to A or B only. Drain port (9/16"UNO) must be connected directly to tank. | 1 5/8" 9/16" D | \$ 1408.00 |
| HS9397U26C manifold only \$ 530.00 | | | | | |

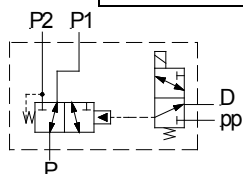


- Manifold dimensions, 200 x 125 x 75mm (excluding cartridges)

HS9603P16BS



| Cartridges | Q max l/min | P max bar | Notes | Ports BSP | Assembly Price |
|-------------------------------------|----------------|--------------|----------------|-------------------|-------------------|
| PD42-M40 + SV58-30 | 265 | 345 | Flow both ways | 1" 1/4" D & PP | \$ 1587.00 |
| HS9603P16BS manifold only \$ 715.00 | | | | | |



- Manifold dimensions, 170 x 100 x 75mm (excluding cartridges)
- Steel block

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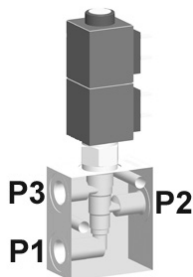
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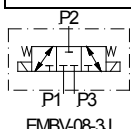
3 WAY, 3 POSITION

Click on individual cartridges for more info

HS0830P4 or P6



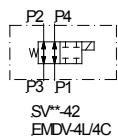
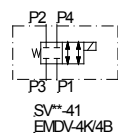
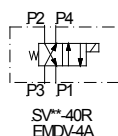
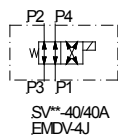
| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|-----------------------------|---------------|-------------------|
| EMBV-08-3J | 19 | 350* | Bi-directional, slide spool | 1/4"-3/8" | \$ 537.00 |
| HS0830 P4 or P6 manifold only \$ 127.00 | | | | | |



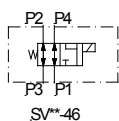
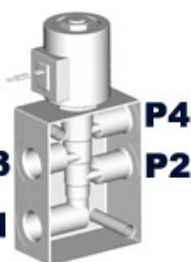
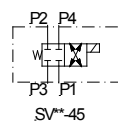
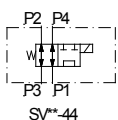
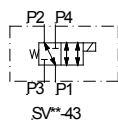
- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

4 WAY, 2 POSITION

HS0840P4 or P6



HS1040P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|---------------------|---------------|-------------------|
| SV08-40 | 11 | 207 | Cross over | 1/4"-3/8" | \$ 337.00 |
| SV58-40 | 11 | 345* | High pressure | 1/4"-3/8" | \$ 337.00 |
| SV08-41 | 13 | 207 | N.C. | 1/4"-3/8" | \$ 337.00 |
| SV58-41 | 13 | 345* | High pressure, N.C. | 1/4"-3/8" | \$ 424.00 |
| SV08-42 | 11 | 207 | N.O. | 1/4"-3/8" | \$ 337.00 |
| SV08-43 | 11 | 207 | P4 to P1 N.O. | 1/4"-3/8" | \$ 337.00 |
| SV08-44 | 11 | 207 | N.O. to tandem | 1/4"-3/8" | \$ 337.00 |
| SV08-45 | 11 | 207 | N.C. to cross open | 1/4"-3/8" | \$ 337.00 |
| SV08-46 | 11 | 207 | N.O. to motor spool | 1/4"-3/8" | \$ 337.00 |
| EMDV-08-4J | 19 | 350* | Cross over | 1/4"-3/8" | \$ 518.00 |
| EMDV-08-4K | 19 | 350* | N.C. | 1/4"-3/8" | \$ 498.00 |
| EMDV-08-4L | 19 | 350* | N.O. | 1/4"-3/8" | \$ 498.00 |

HS0840P4 or P6 manifold only \$ 138.00

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|----------------------------------|---------------|-------------------|
| SV10-40 | 23 | 207 | Cross over, open on changeover | 3/8"-1/2" | \$ 365.00 |
| SV10-40A | 38 | 207 | Cross over, closed on changeover | 3/8"-1/2" | \$ 365.00 |
| SV10-41 | 23 | 207 | N.C. | 3/8"-1/2" | \$ 365.00 |
| SV10-42 | 23 | 207 | N.O. | 3/8"-1/2" | \$ 373.00 |
| SV10-43 | 23 | 207 | 4 to 1 N.O. | 3/8"-1/2" | \$ 373.00 |
| SV10-44 | 23 | 207 | N.O. to tandem | 3/8"-1/2" | \$ 362.00 |
| EMDV-10-4A | 30 | 350* | Cross over | 3/8"-1/2" | \$ 455.00 |
| EMDV-10-4B | 30 | 350* | N.C. | 3/8"-1/2" | \$ 460.00 |
| EMDV-10-4C | 30 | 350* | N.O. | 3/8"-1/2" | \$ 460.00 |

HS1040P6 or P8 manifold only \$ 150.00

- Manifold dimensions, 100 x 65 x 37mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

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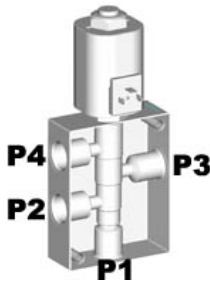
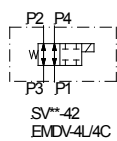
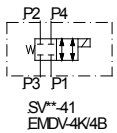
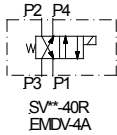
SOLENOID VALVES

4 WAY, 2 POSITION

Click on individual cartridges for more info



HS1240P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|-------------|-----------|--------------------|------------|----------------|
| SV12-40R | 65 | 240 | Reverse cross over | 3/4" | \$ 751.00 |
| SV12-41 | 65 | 240 | N.C. | 3/4" | \$ 755.00 |
| SV12-42 | 65 | 240 | N.O. | 3/4" | \$ 692.00 |
| EMDV-12-4A | 60 | 350* | Cross over | 3/4" | \$ 732.00 |
| EMDV-12-4B | 60 | 350* | N.C. | 3/4" | \$ 737.00 |
| EMDV-12-4C | 60 | 350* | N.O. | 3/4" | \$ 737.00 |
| HS1240P12 manifold only \$ 252.00 | | | | | |

- Manifold dimensions, 130 x 100 x 37mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing
- **Size 12 E Coil for SV12**

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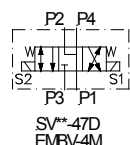
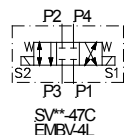
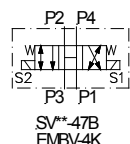
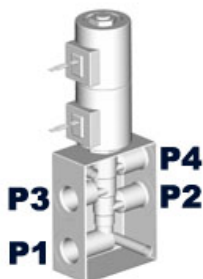
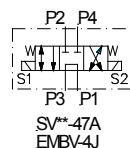
SOLENOID VALVES

4 WAY, 3 POSITION

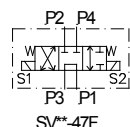
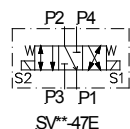
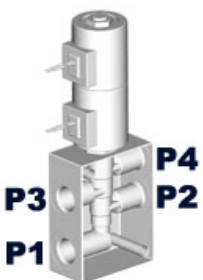
Click on individual cartridges for more info



HS0840P4 or P6



HS1040P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------------------|---------------|-------------------|
| SV08-47A | 4 | 207 | Tandem centre | 1/4"-3/8" | \$ 451.00 |
| SV08-47B | 11 | 207 | Open centre | 1/4"-3/8" | \$ 451.00 |
| SV08-47C | 11 | 207 | Closed centre (CC) | 1/4"-3/8" | \$ 451.00 |
| SV08-47D | 11 | 207 | Motor spool (MS) | 1/4"-3/8" | \$ 451.00 |
| SV08-47E | 11 | 207 | P & B blocked, A to T in neutral | 1/4"-3/8" | \$ 451.00 |
| EMBV-08-4J | 15 | 350* | Tandem centre | 1/4"-3/8" | \$ 588.00 |
| EMBV-08-4K | 19 | 350* | Open centre | 1/4"-3/8" | \$ 568.00 |
| EMBV-08-4L | 19 | 350* | Closed centre | 1/4"-3/8" | \$ 568.00 |
| HS0840P4 or P6 manifold only \$ 138.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------------------|---------------|-------------------|
| SV10-47A | 19 | 240 | Tandem centre | 3/8"-1/2" | \$ 557.00 |
| SV10-47B | 23 | 207 | Open centre | 3/8"-1/2" | \$ 557.00 |
| SV10-47C | 23 | 240 | Closed centre (CC) | 3/8"-1/2" | \$ 541.00 |
| SV10-47D | 23 | 207 | Motor spool (MS) | 3/8"-1/2" | \$ 541.00 |
| SV10-47E | 30 | 250 | P & B blocked, A to T in neutral | 3/8"-1/2" | \$ 605.00 |
| SV10-47F | 15 | 240 | Tandem centre | 3/8"-1/2" | \$ 605.00 |
| EMBV-10-4J | 34 | 350* | Tandem centre | 3/8"-1/2" | \$ 950.00 |
| EMBV-10-4K | 26.5 | 350* | Open centre | 3/8"-1/2" | \$ 950.00 |
| EMBV-10-4L | 38 | 350* | Closed centre | 3/8"-1/2" | \$ 950.00 |
| EMBV-10-4M | 38 | 350* | Motor spool | 3/8"-1/2" | \$ 950.00 |
| HS1040P6 or P8 manifold only \$ 150.00 | | | | | |

- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

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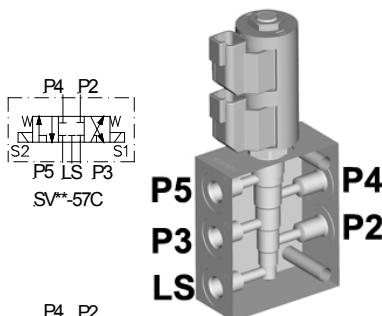
SOLENOID VALVES

5 WAY, 3 POSITION

Click on individual cartridges for more info



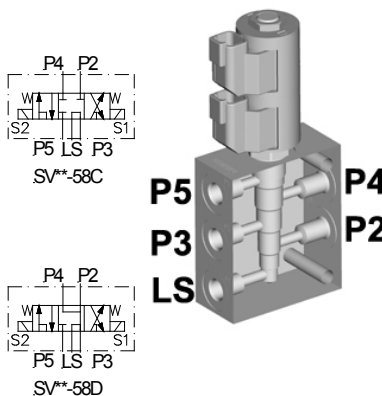
HS0850P4 or P6



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| SV08-58C | 13 | 241 | Closed centre with open load sense port | 1/4"-3/8" | \$ 622.00 |
| SV08-58D | 13 | 241 | Motor spool with open load sense port | 1/4"-3/8" | \$ 622.00 |
| HS0850P4 or P6 manifold only \$ 245.00 | | | | | |

- Manifold dimensions, *contact Hyspecs*

HS1050P6 or P8



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| SV10-57C | 20 | 247 | Closed centre with closed load sense port | 3/8"-1/2" | \$ 623.00 |
| SV10-57D | 20 | 247 | Motor spool with closed load sense port | 3/8"-1/2" | \$ 623.00 |
| SV10-58C | 30 | 247 | Closed centre with open load sense port | 3/8"-1/2" | \$ 727.00 |
| SV10-58D | 30 | 247 | Open centre with open load sense port | 3/8"-1/2" | \$ 727.00 |
| HS1050P6 or P8 manifold only \$ 252.00 | | | | | |

- Manifold dimensions, 100 x 75 x 39mm (excluding cartridge)

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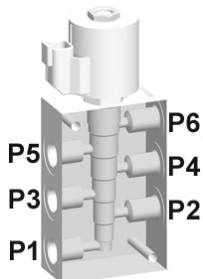
SOLENOID VALVES

6 WAY, 2 POSITION

Click on individual cartridges for more info

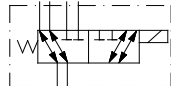


HS1060P6 or P8



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-----------------|---------------|-------------------|
| SV80-61 | 7.6 | 207 | 6 port selector | 3/8"-1/2" | \$ 597.00 |
| HS1060P6 or P8 manifold only \$ 280.00 | | | | | |

P6P1P4P3



P5 P2
SV08-61

- Manifold dimensions, 120 x 75 x 37mm (excluding cartridges)

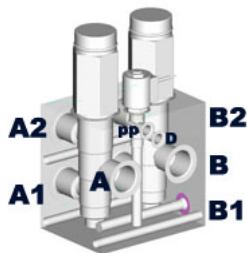
HS1260P8 or P12

CONTACT HYSPECS

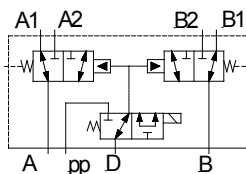
| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|-----------------|---------------|-------------------|
| SV12-60 | 45 | 240 | 6 port selector | 1/2"-3/4" | \$ 1008.00 |
| HS1260P8 or P12 manifold only \$ 380.00 | | | | | |

- Manifold dimensions, *contact Hyspecs*
- Size 12 E Coil

HS9606P16CS



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--------------------------------------|----------------|--------------|-----------------|-------------------|-------------------|
| PD42-M40 x 2 + SV08-31 | 260 | 345 | 6 port selector | 1" 1/4" D & pp | \$ 2569.00 |
| HS9606P16CS manifold only \$ 1143.00 | | | | | |



- Manifold dimensions, 150 x 150 x 100mm (excluding cartridges)
- Steel block

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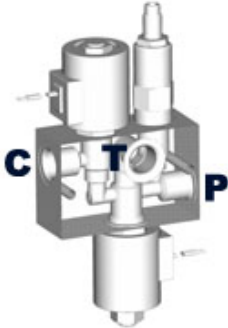
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SOLENOID VALVES

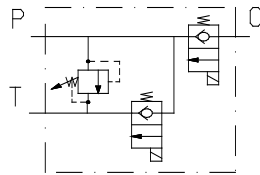
SINGLE ACTING CYLINDER LIFT / LOWER VALVES

HS9604P8C

Click on individual cartridges for more info

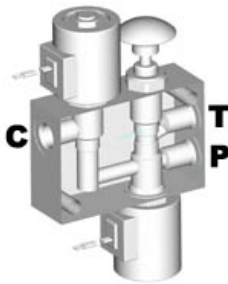


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---------------|---------------|-------------------|
| SV10-20 x 2 + RV10-20 | 38 | 207 | Normally up | 1/2" | \$ 758.00 |
| SV10-20 + SV10-21 + RV10-20 | 38 | 207 | Normally hold | 1/2" | \$ 797.00 |
| HS9604P8C manifold only \$ 257.00 | | | | | |

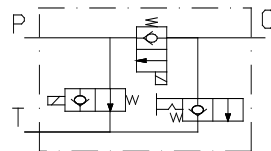


- Manifold dimensions, 99 x 65 x 39mm (excluding cartridges)

HS9607P6C



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------------|---------------|-------------------|
| SV10-20 + SV10-21 + MP10-20 | 38 | 207 | Manual override | 3/8" | \$ 802.00 |
| HS9607P6C manifold only \$ 257.00 | | | | | |



- Manifold dimensions, 110 x 75 x 37mm (excluding cartridges)

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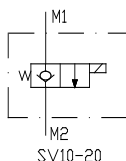
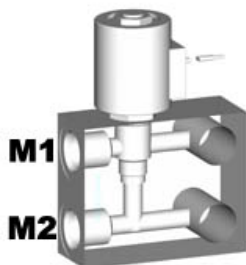
SOLENOID VALVES

START / STOP VALVES - MOTOR BANJO BOLT MOUNTED



HS7001U14A

Click on individual cartridges for more info

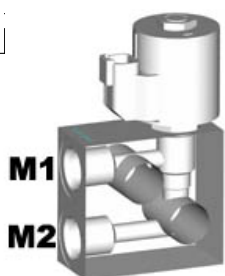
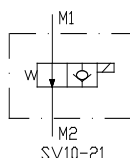


| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------|----------------|--------------|---|--------------|-------------------|
| SV10-20 | 56 | 207 | 1.8" port centre, suits H S & T series, N.C. 7/8" banjo bolts | 7/8" | \$ 460.00 |
| SV10-21 | 56 | 207 | 1.8" port centre, suits H S & T series, N.O. 7/8" banjo bolts | 7/8" | \$ 499.00 |

HS7001U14A manifold only \$ 184.00

- Manifold dimensions, 99 x 80 x 39mm (excluding cartridge)

HS7003U14A



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------|----------------|--------------|--|--------------|-------------------|
| SV10-20 | 56 | 207 | 2" port centre, suits 2000 series, N.C. 7/8" banjo bolts, BB-14L | 7/8" | \$ 460.00 |
| SV10-21 | 56 | 207 | 2" port centre, suits 2000 series, N.O. 7/8" banjo bolts, BB-14L | 7/8" | \$ 499.00 |

HS7003U14A manifold only \$ 184.00

- Manifold dimensions, *contact Hyspecs*

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CONTENTS SECTION E – MOTION CONTROLS**E1 Counterbalance Valves**

- E1 Single In-Line
- E3 Single In-Line With Brake Release
- E4 Double In-Line
- E6 Double In-Line With Brake Release
- E7 Double In-Line With Cross-Line Relief
- E7 Single Pad Mounted
- E9 Double Pad Mounted
- E10 Banjo Bolt Mounted – Char-Lynn H, S & T Series
- E12 Banjo Bolt Mounted – Char-Lynn 2000 Series
- E13 Banjo Bolt Mounted – Char-Lynn 4000 Series
- E14 Banjo Bolt Mounted – Char-Lynn 6000 Series
- E15 Banjo Bolt Mounted – Char-Lynn 10000 Series
- E15 Banjo Bolt Mounted – Motor Torque Limiting Valves

E17 Regenerative Valves**E18 Char-Lynn Two Speed Motor Controls**

- E18 2000 & 10000 Series Motors

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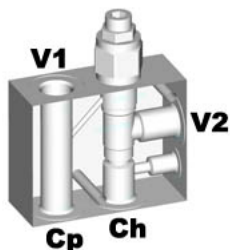
COUNTERBALANCE VALVES



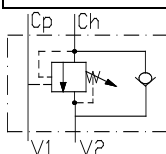
SINGLE IN-LINE

Click on individual cartridges for more info

HS4501P8A

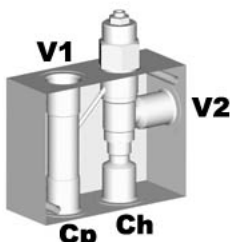


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------------|---------------|-------------------|
| CBPA-20M | 76 | 345* | 4:1 pilot ratio | 1/2" | \$ 491.00 |
| HS4501P8A manifold only \$ 281.00 | | | | | |

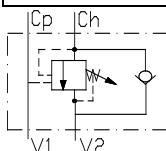


- Manifold dimensions, 99 x 80 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4502P12A

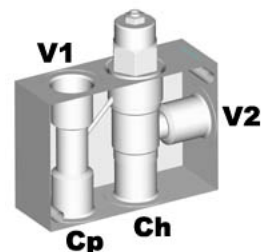


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| CBEG-LJN | 120 | 345* | 4.5:1 pilot ratio | 3/4" | \$ 704.00 |
| HS4502P12A manifold only \$ 361.00 | | | | | |

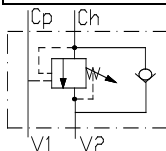


- Manifold dimensions, 125 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4503P16A

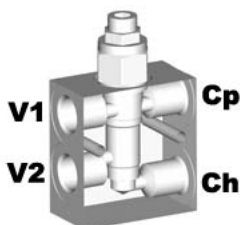


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| CBGG-LJN | 240 | 345* | 4.5:1 pilot ratio | 1" | \$ 1189.00 |
| HS4503P16A manifold only \$ P560.00 | | | | | |

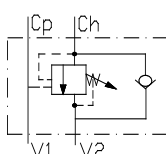


- Manifold dimensions, 140 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4504P6A or P8A



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---------------------------------|---------------|-------------------|
| CBPA-20M | 76 | 345* | 4:1 pilot ratio, compact design | 3/8"-1/2" | \$ 357.00 |
| HS4504P6A or P8A manifold only \$ 147.00 | | | | | |



- Manifold dimensions, 75 x 70 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

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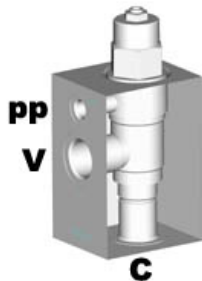
COUNTERBALANCE VALVES

SINGLE IN-LINE

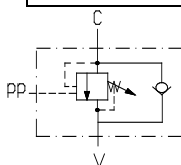
Click on individual cartridges for more info



HS4505P12A

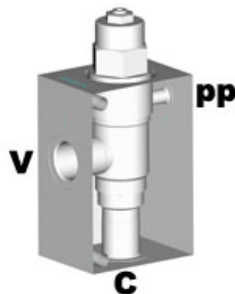


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| CBGG-LJN | 240 | 345* | 4.5:1 pilot ratio | 3/4" & 1/4" | \$ 1024.00 |
| HS4505P12A manifold only \$ 395.00 | | | | | |

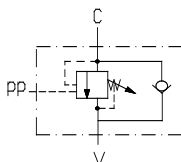


- Manifold dimensions, 110 x 75 x 62.5mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4506P16A

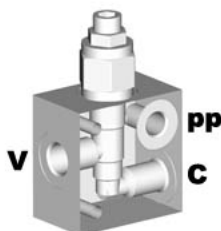


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| CBIG-LJN | 480 | 345* | 4.5:1 pilot ratio | 1" & 1/4" pp | \$ 1525.00 |
| HS4506P16S manifold only \$ 675.00 | | | | | |

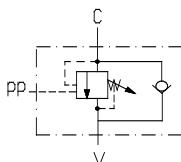


- Manifold dimensions, 150 x 100 x 75mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4508P6A

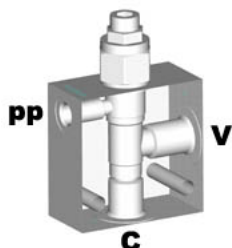


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------------|---------------|-------------------|
| CBPA-08 | 38 | 345* | 4:1 pilot ratio | 3/8" | \$ 302.00 |
| HS4508P6A manifold only \$ 132.00 | | | | | |

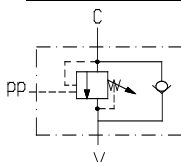


- Manifold dimensions, 62.5 x 62.5 x 38mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4509P8A



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------------|---------------|-------------------|
| CBPA-20M | 76 | 345* | 4:1 pilot ratio | 1/2" & 1/4" | \$ 422.00 |
| HS4509P8A manifold only \$ 212.00 | | | | | |



- Manifold dimensions, 75 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

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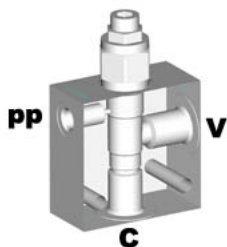
COUNTERBALANCE VALVES

SINGLE IN-LINE

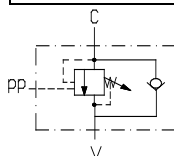
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HS1025P8 or P12

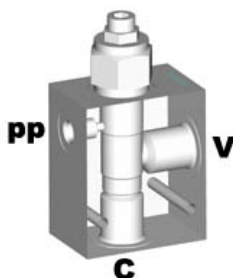


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price P8 |
|--|----------------|--------------|-----------------|--------------------|----------------------|
| CBPA-10 | 76 | 345* | 4:1 pilot ratio | 1/2"-3/4", 1/4" pp | \$ 379.00 |
| HS1025P8 or P12 manifold only \$ 147.00 or \$ 184.00 | | | | | |

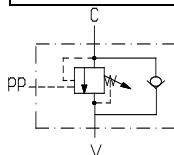


- Manifold dimensions, 75 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS1225P8 or P12



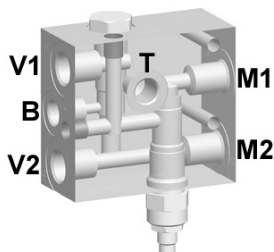
| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|-----------------|--------------------|-------------------|
| CBPA-12 | 132 | 345* | 4:1 pilot ratio | 1/2"-3/4", 1/4" pp | \$ 473.00 |
| HS1225P8 or P12 manifold only \$ 223.00 | | | | | |



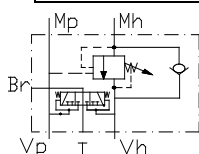
- Manifold dimensions, 90 x 75 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

SINGLE IN-LINE WITH BRAKE RELEASE

HS4513P8BB

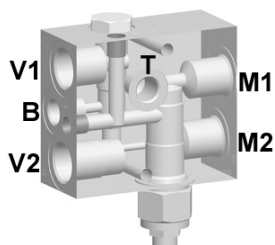


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|-----------------------------|---------------|-------------------|
| CBPA-20M + BV10-40 or SDSV-10 | 76 | 350* | 4:1 ratio, brake release | 1/2" | \$691.00 |
| HS4513P8BB manifold only \$ 241.00 | | | | | |

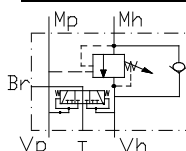


- Manifold dimensions, 110 x 100 x 50mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4517P12BB



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|-----------------------------|---------------|-------------------|
| CBPA-12 + BV10-40 or SDSV-10 | 132 | 350* | 4:1 ratio, brake release | 3/4" | \$ 754.00 |
| HS4517P12BB manifold only \$ 264.00 | | | | | |



- Manifold dimensions, 115 x 100 x 50mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

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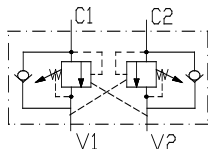
COUNTERBALANCE VALVES

DOUBLE IN-LINE

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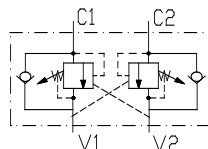
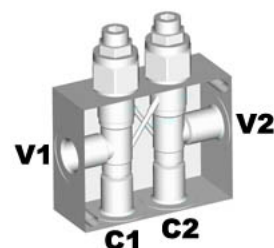
HS4608P6B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------------|---------------|-------------------|
| CBPA-08 x 2 | 38 | 345* | 4:1 pilot ratio | 3/8" | \$ 529.00 |
| HS4608P6B manifold only \$ 189.00 | | | | | |

- Manifold dimensions, 75 x 70 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

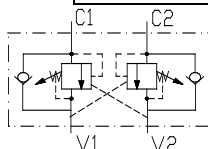
HS4601P8B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------------|---------------|-------------------|
| CBPA-20M x 2 | 76 | 345* | 4:1 pilot ratio | 1/2" | \$ 672.00 |
| HS4601P8B manifold only \$ 252.00 | | | | | |

- Manifold dimensions, 99 x 79 x 39mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

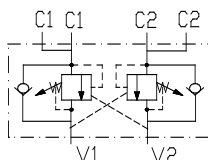
HS4605P8B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|------------------------------------|---------------|-------------------|
| CBPA-20M x 2 | 76 | 345* | 4:1 pilot ratio, compact design | 1/2" | \$ 609.00 |
| HS4605P8B manifold only \$ 189.00 | | | | | |

- Manifold dimensions, 100 x 75 x 50mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4606P8B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--|---------------|-------------------|
| CBPA-20M x 2 | 76 | 345* | 4:1 pilot ratio, through ports on C | 1/2" | \$ 659.00 |
| HS4606P8B manifold only \$ 239.00 | | | | | |

- Manifold dimensions, 100 x 75 x 50mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

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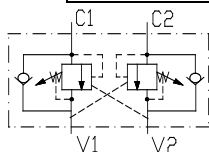
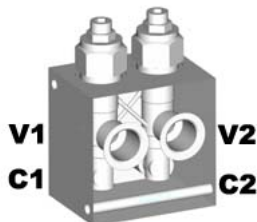
COUNTERBALANCE VALVES

DOUBLE IN-LINE

Click on individual cartridges for more info



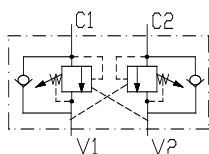
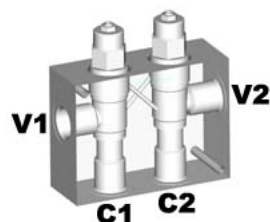
HS4607P12B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-----------------|---------------|-------------------|
| CBPA-12 x 2 | 132 | 345* | 4:1 pilot ratio | 3/4" | \$ 770.00 |
| HS4607P12B manifold only \$ 270.00 | | | | | |

- Manifold dimensions, 100 x 100 x 75mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

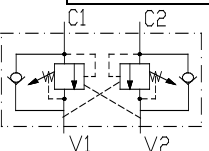
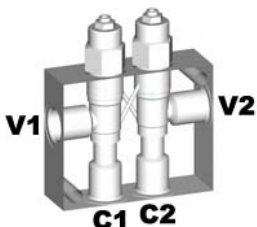
HS4612P12B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-----------------|---------------|-------------------|
| CBPA-12 x 2 | 132 | 345* | 4:1 pilot ratio | 3/4" | \$ 804.00 |
| HS4612P12B manifold only \$ 304.00 | | | | | |

- Manifold dimensions, 125 x 100 x 50mm (excluding cartridges)
- * Requires steel block – call Hyspecs for pricing

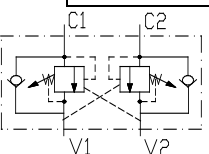
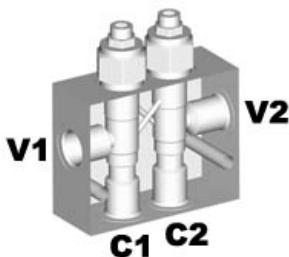
HS4602P12B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| CBEG-LJN x 2 | 113 | 345* | 4.5:1 pilot ratio | 3/4" | \$ 1070.00 |
| HS4602P12B manifold only \$ 384.00 | | | | | |

- Manifold dimensions, 120 x 99 x 39mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4603P16B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| CBGG-LJN x 2 | 226 | 345* | 4.5:1 pilot ratio | 1" | \$ 1914.00 |
| HS4603P16B manifold only \$ 656.00 | | | | | |

- Manifold dimensions, 165 x 125 x 60mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

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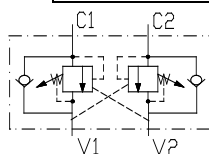
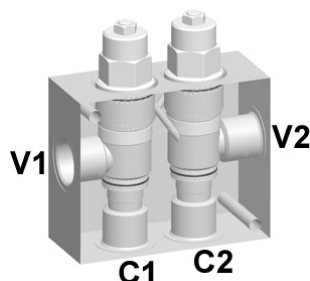
E-mail: hyspecs@hyspecs.co.nz

COUNTERBALANCE VALVES

DOUBLE IN-LINE

Click on individual cartridges for more info

HS4609P20B



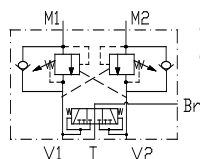
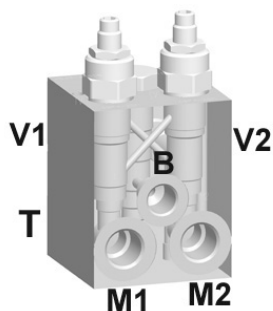
| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| CBIG-LJN x 2 | 480 | 345* | 4.5:1 pilot ratio | 1.25" | \$ 2370.00 |
| HS4603P16B manifold only \$ 670.00 | | | | | |

- Manifold dimensions, 180 x 150 x 75mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing



DOUBLE IN-LINE WITH BRAKE RELEASE

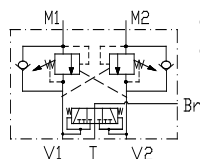
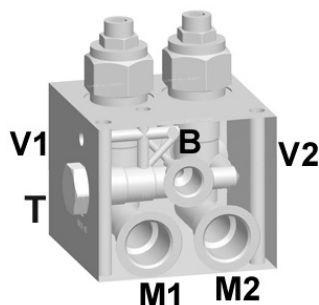
HS4514P8CB



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|-----------------------------|------------------------|-------------------|
| CBPA-20M x 2 + BV10-40 or SDSV-10 | 76 | 350* | 4:1 ratio, brake release | 1/2", 3/8" B & T | \$ 782.00 |
| HS4514P8CB manifold only \$ 332.00 | | | | | |

- Manifold dimensions, 95 x 75 x 75mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4518P12CB



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-----------------------------|------------------------|-------------------|
| CBPA-12 x 2 + BV10-40 or SDSV-10 | 132 | 350* | 4:1 ratio, brake release | 3/4", 3/8" B & T | \$ 1140.00 |
| HS4518P12CB manifold only \$ 400.00 | | | | | |

- Manifold dimensions, 100 x 100 x 85mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

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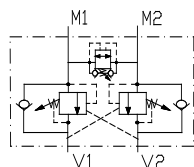
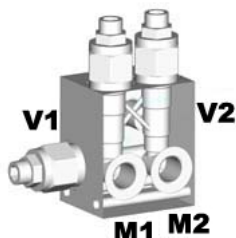
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COUNTERBALANCE VALVES

DOUBLE IN-LINE WITH CROSS-LINE RELIEF

HS4638P4CR



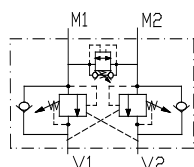
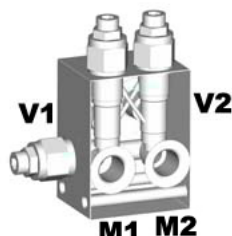
Click on individual cartridges for more info

| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-----------------|---------------|-------------------|
| CBPA-08 X 2 + RVBD-08 | 38 | 345* | 4.1 pilot ratio | 1/4"- 3/8" | \$ 866.00 |
| HS4638P4CR or P6CR manifold only \$ 293.00 | | | | | |

- Manifold dimensions, 75 x 62 x 50mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing



HS4639P8CR

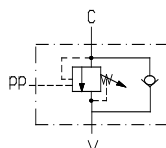
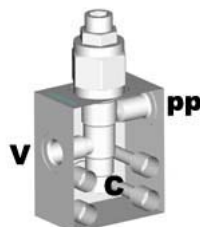


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-----------------|---------------|-------------------|
| CBPA-20M X 2 + RVBD-10 | 76 | 345* | 4.1 pilot ratio | 1/2" | \$ 905.00 |
| HS4639P8CR manifold only \$ 300.00 | | | | | |

- Manifold dimensions, 100 x 75 x 60mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

SINGLE PAD MOUNTED

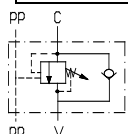
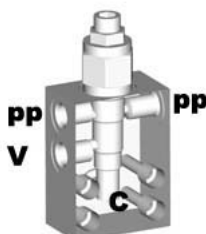
HS4808P4A



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|------------------------------------|---------------|-------------------|
| CBPA-08 | 38 | 345* | 4:1 pilot ratio, code 61, SAE 1/2" | 1/4" | \$ 359.00 |
| HS4808P4A manifold only \$ 189.00 | | | | | |

- Manifold dimensions, 65 x 55 x 34mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4809P4A



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|------------------------------------|---------------|-------------------|
| CBPA-08 | 38 | 345* | 4:1 pilot ratio, code 61, SAE 1/2" | 1/4" | \$ 360.00 |
| HS4809P4A manifold only \$ 190.00 | | | | | |

- Manifold dimensions, 75 x 55 x 34mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

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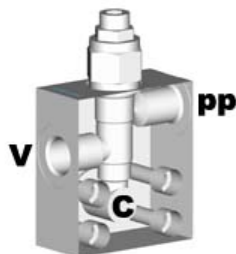
COUNTERBALANCE VALVES

SINGLE PAD MOUNTED

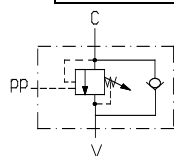
Click on individual cartridges for more info



HS4810P8B

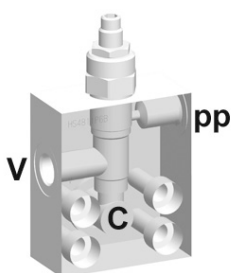


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|------------------------------------|---------------|-------------------|
| CBPA-10 | 76 | 345* | 4:1 pilot ratio, code 61, SAE 3/4" | 1/2" | \$ 407.00 |
| HS4810P8B manifold only \$ 212.00 | | | | | |

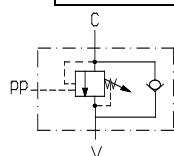


- Manifold dimensions, 85 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *call Hyspecs for pricing*

HS4811P6B or P8B

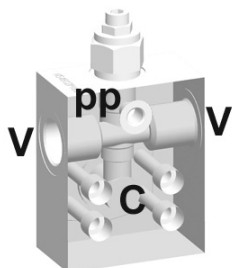


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|------------------------------------|---------------|-------------------|
| CBPA-20M | 76 | 350* | 4:1 pilot ratio, code 61, SAE 3/4" | 3/8"-1/2" | \$ 422.00 |
| HS4811P6B or P8B manifold only \$ 212.00 | | | | | |

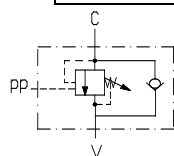


- Manifold dimensions, 90 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *call Hyspecs for pricing*

HS4812P12C or P16C

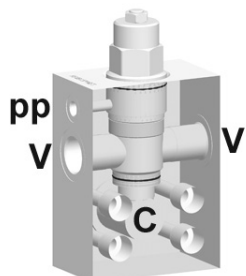


| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------------------|---------------|-------------------|
| CBPA-12 | 132 | 350* | 4:1 pilot ratio, code 61, SAE 1" | 3/4"-1" | \$ 653.00 |
| HS4812P12C or P16C manifold only \$ 403.00 | | | | | |

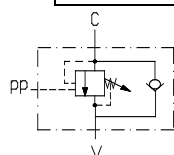


- Manifold dimensions, 126 x 100 x 55mm (excluding cartridge)
- * Requires steel block over 280 bar – *call Hyspecs for pricing*

HS4815P16E



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|--------------------------------------|----------------|-------------------|
| CBIG-LJN | 480 | 350* | 4.5:1 pilot ratio, code 61, SAE 1.5" | 1", 1/4" pp | \$ 1320.00 |
| HS4815P16E manifold only \$ 470.00 | | | | | |



- Manifold dimensions, 170 x 124 x 75mm (excluding cartridge)
- * Requires steel block over 280 bar – *call Hyspecs for pricing*

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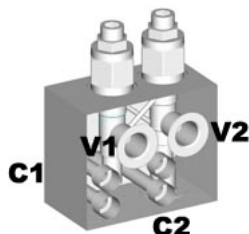
COUNTERBALANCE VALVES

DOUBLE PAD MOUNTED

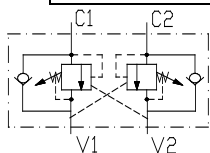
Click on individual cartridges for more info



HS4818P6AD

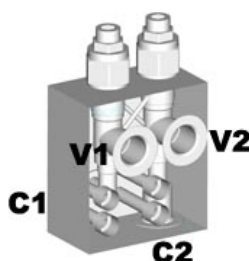


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|------------------------------------|---------------|-------------------|
| CBPA-08 x 2 | 38 | 345* | 4:1 pilot ratio, code 61, SAE 1/2" | 3/8" | \$ 592.00 |
| HS4818P6AD manifold only \$ 252.00 | | | | | |

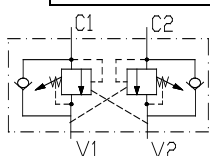


- Manifold dimensions, 90 x 75 x 50mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4819P8AD

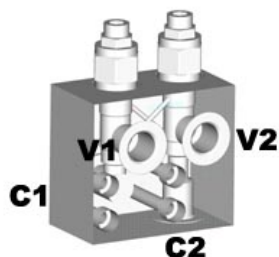


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|------------------------------------|---------------|-------------------|
| CBPA-20M x 2 | 76 | 345* | 4:1 pilot ratio, code 61, SAE 1/2" | 1/2" | \$ 751.00 |
| HS4819P8AD manifold only \$ 331.00 | | | | | |

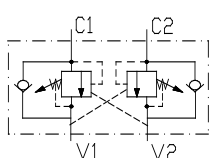


- Manifold dimensions, 100 x 90 x 50mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4820P8BD



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|------------------------------------|---------------|-------------------|
| CBPA-10 x 2 | 76 | 345* | 4:1 pilot ratio, code 61, SAE 3/4" | 1/2" | \$ 721.00 |
| HS4820P8BD manifold only \$ 331.00 | | | | | |

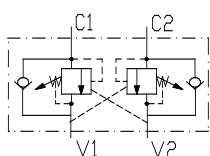


- Manifold dimensions, 100 x 90 x 50mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4821P12CD

CONTACT HYSPECS

| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|----------------------------------|---------------|-------------------|
| CBPA-12 x 2 | 132 | 345* | 4:1 pilot ratio, code 61, SAE 1" | 3/4" | \$ 995.00 |
| HS4821P12CD manifold only \$ 495.00 | | | | | |



- Manifold dimensions – contact Hyspecs
- * Requires steel block over 280 bar – call Hyspecs for pricing

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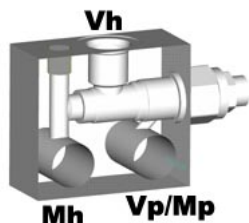
COUNTERBALANCE VALVES



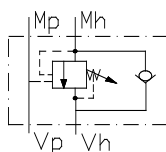
BANJO BOLT MOUNTED – CHAR-LYNN H, S & T SERIES – 1.8" CENTRE

HS4701U14A (Single C/B)

Click on individual cartridges for more info

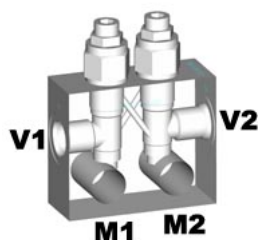


| Cartridge | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|--|--------------|-------------------|
| CBPA-20M | 76 | 345* | 4:1 pilot ratio, Vp port on banjo bolt, BB-14T+14L, single C/B | 7/8" | \$ 508.00 |
| HS4701U14A manifold only \$ 195.00 | | | | | |

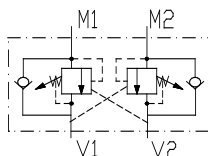


- Manifold dimensions, 85 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4702U14AD (Double C/B)

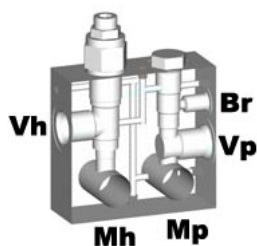


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|---------------------------------------|--------------|-------------------|
| CBPA-20M x 2 | 76 | 345* | 4:1 pilot ratio, dual C/B, BB-14L x 2 | 7/8" | \$ 729.00 |
| HS4702U14AD manifold only \$ 217.00 | | | | | |

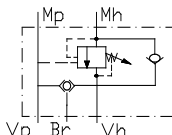


- Manifold dimensions, 99 x 90 x 39mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4703U14AL (Single C/B with shuttle for brake release)



| Cartridges | Q max l/min | P max bar | Notes | Ports | Assembly Price |
|-------------------------------------|----------------|--------------|--|-------------------------|-------------------|
| CBPA-20M + LS08-30 | 76 | 240 | 4:1 pilot ratio, single C/B with brake release, BB-14L x 2 | 7/8" UNO & 1/4" BSPP Br | \$ 566.00 |
| HS4703U14AL manifold only \$ 264.00 | | | | | |



- Manifold dimensions, 105 x 99 x 39mm (excluding cartridges)

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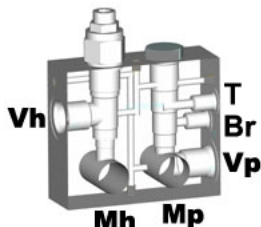
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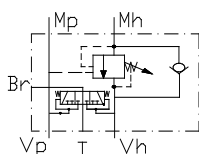
COUNTERBALANCE VALVES

BANJO BOLT MOUNTED – CHAR-LYNN H, S & T SERIES – 1.8" CENTRE

HS4705U14AB (Single C/B with brake release valve) *Click on individual cartridges for more info*

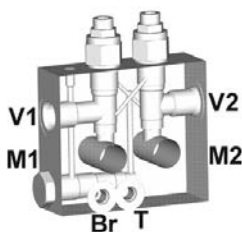


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|---|--------------|-------------------|
| CBPA-20M + BV10-40 | 76 | 240 | 4:1 pilot ratio, single C/B with brake release, BB- 14L x 2 | 7/8" | \$ 830.00 |
| HS4705U14AB manifold only \$ 321.00 | | | | | |

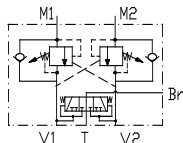


- Manifold dimensions, 115 x 99 x 39mm (excluding cartridges)

HS4706U14AB (Double C/B with brake release valve)

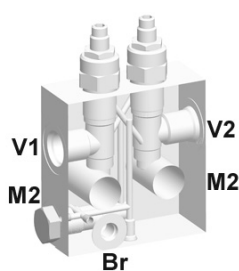


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|--|--------------------|-------------------|
| CBPA-20M x 2 + BV10-40 | 76 | 240 | 4:1 pilot ratio, double C/B with brake release, BB- 14L x 2 | 7/8" & 7/16" | \$ 1080.00 |
| HS4706U14AB manifold only \$ 361.00 | | | | | |

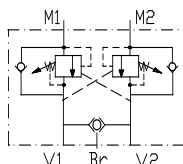


- Manifold dimensions, 125 x 110 x 42mm (excluding cartridges)

HS4708U14AE (Double C/B with shuttle for brake release)



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|--|--------------------|-------------------|
| CBPA-20M x 2 + LS08-30 | 76 | 240 | 4:1 pilot ratio, double C/B with brake release, BB- 14L x 2 | 7/8" & 7/16" | \$ 913.00 |
| HS4708U14AE manifold only \$ 332.00 | | | | | |



- Manifold dimensions, 110 x 99 x 39mm (excluding cartridges)

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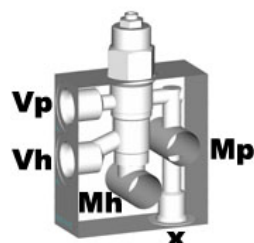
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COUNTERBALANCE VALVES

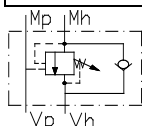
BANJO BOLT MOUNTED – CHAR-LYNN 2000 SERIES

HS4711U14C (Single C/B)



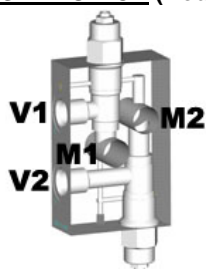
Click on individual cartridges for more info

| Cartridge | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|---|--------------|-------------------|
| CBEG-LJN | 113 | 345* | 4.5:1 pilot ratio, single C/B, BB-14L x 2 | 7/8" | \$ 642.00 |
| HS4711U14C manifold only \$ 207.00 | | | | | |

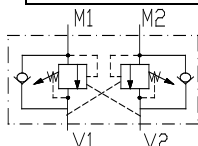


- Manifold dimensions, 99 x 90 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4712U14CD (Double C/B)

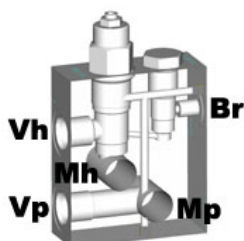


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|---|--------------|-------------------|
| CBEG-LJN x 2 | 113 | 345* | 4.5:1 pilot ratio, double C/B, BB-14L x 2 | 7/8" | \$ 1093.00 |
| HS4712U14CD manifold only \$ 315.00 | | | | | |

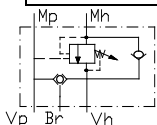


- Manifold dimensions, 140 x 90 x 39mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4713U14CL (Single C/B with shuttle for brake release)



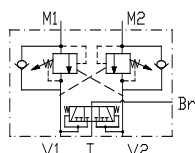
| Cartridges | Q max l/min | P max bar | Notes | Ports | Assembly Price |
|-------------------------------------|----------------|--------------|--|-------------------------|-------------------|
| CBEG-LJN + LS08-30 | 113 | 240 | 4.5:1 pilot ratio, single C/B with brake release, BB-14L x 2 | 7/8" UNO & 1/4" Br BSPP | \$ 1162.00 |
| HS4713U14CL manifold only \$ 315.00 | | | | | |



- Manifold dimensions, 120 x 100 x 39mm (excluding cartridges)

HS4715U14CB (Double C/B with brake release valve)

CONTACT HYSPECS



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|---|---------------------|-------------------|
| CBEG-LJN x 2 + BV10-40 | 113 | 240 | 4.5:1 pilot ratio, double C/B with brake release, U7 T and Br ports, BB-14L x 2 | 7/8" & 7/16" Br & T | \$ 1563.00 |
| HS4715U14CB manifold only \$ 578.00 | | | | | |

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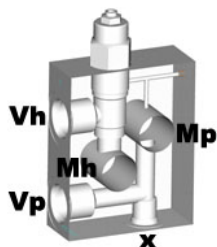
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COUNTERBALANCE VALVES

BANJO BOLT MOUNTED – CHAR-LYNN 4000 SERIES

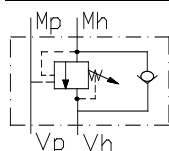


HS4721U17E (Single C/B)



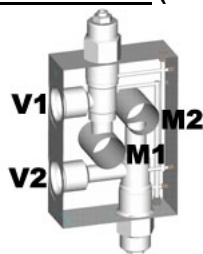
Click on individual cartridges for more info

| Cartridge | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|---|--------------|-------------------|
| CBEG-LJN | 113 | 345* | 4.5:1 pilot ratio, single C/B, BB-17H x 2 | 1 1/16" | \$ 818.00 |
| HS4721U17E manifold only \$ 343.00 | | | | | |

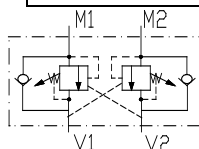


- Manifold dimensions, 125 x 99 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4722U17ED (Double C/B)

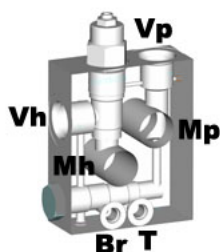


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|--|--------------|-------------------|
| CBEG-LJN x 2 | 113 | 345* | 4.5:1 pilot ratio, double C/B, BB-17H x 2 | 1 1/16" | \$ 1316.00 |
| HS4722U17ED manifold only \$ 498.00 | | | | | |

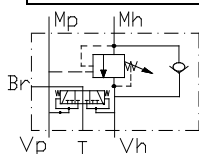


- Manifold dimensions, 140 x 99 x 39mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4723U17EB (Single C/B with brake release valve)



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|---|---------------------------------|-------------------|
| CBEG-LJN + BV10-40 | 113 | 240 | 4.5:1 pilot ratio, double C/B with brake release, U7 T and Br ports, BB-17H x 2 | 1 1/16" & 7/16" Br & T | \$ 1017.00 |
| HS4723U17EB manifold only \$ 335.00 | | | | | |



- Manifold dimensions, 125 x 100 x 42mm (excluding cartridges)

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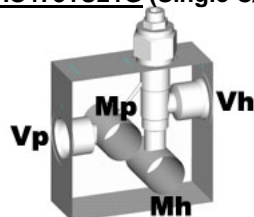
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COUNTERBALANCE VALVES

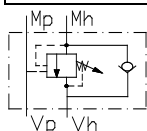
BANJO BOLT MOUNTED – CHAR-LYNN 6000 SERIES

HS4731U21G (Single C/B)



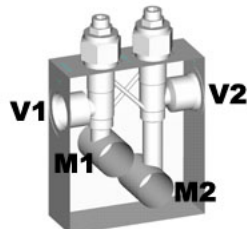
Click on individual cartridges for more info

| Cartridge | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|---|--------------|-------------------|
| CBPA-12 | 132 | 345* | 4:1 pilot ratio, single C/B, BB-21L x 2 | 1 5/16" | \$ 850.00 |
| HS4731U21G manifold only \$ 390.00 | | | | | |

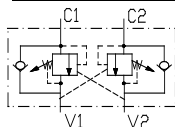


- Manifold dimensions, 125 x 125 x 50mm (excluding cartridge)
- * Requires steel block – call Hyspecs for pricing

HS4732U21GD (Double C/B)

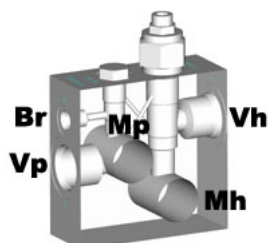


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|---|--------------|-------------------|
| CBPA-12 x 2 | 132 | 345* | 4:1 pilot ratio, double C/B, BB-21L x 2 | 1 5/16" | \$ 1225.00 |
| HS4732U21GD manifold only \$ 515.00 | | | | | |

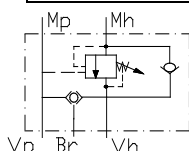


- Manifold dimensions, 150 x 130 x 50mm (excluding cartridges)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4733U21GL (Single C/B with shuttle for brake release)



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|--|--------------------|-------------------|
| CBPA-12 + LS08-30 | 132 | 240 | 4:1 pilot ratio, single C/B with brake release, BB-21L x 2 | 1 5/16" & 9/16" Br | \$ 929.00 |
| HS4733U21GL manifold only \$ 400.00 | | | | | |



- Manifold dimensions, 125 x 125 x 50mm (excluding cartridges)

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COUNTERBALANCE VALVES

BANJO BOLT MOUNTED – CHAR-LYNN 10000 SERIES

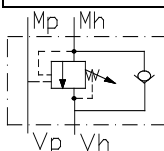
HS4741U21I (Single C/B)

Click on individual cartridges for more info



CONTACT HYSPECS

| Cartridge | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|------------------------------------|----------------|--------------|---|--------------|-------------------|
| CBGG-LJN | 226 | 345* | 4.5:1 pilot ratio, single C/B, BB-21L x 2 | 1 5/16" | \$ 1239.00 |
| HS4741U21I manifold only \$ 400.00 | | | | | |

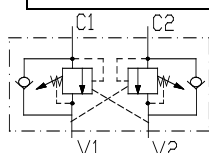


- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4742U21ID (Double C/B)

CONTACT HYSPECS

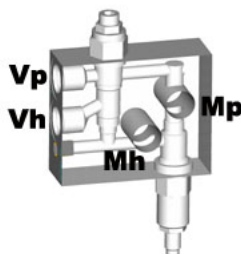
| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|--|--------------|-------------------|
| CBGG-LJN x 2 | 226 | 345* | 4.5:1 pilot ratio, double C/B, BB- 21L x 2 | 1 5/16" | \$ 1928.00 |
| HS4742U21ID manifold only \$ 460.00 | | | | | |



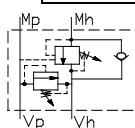
- * Requires steel block over 280 bar – call Hyspecs for pricing

BANJO BOLT MOUNTED – MOTOR TORQUE LIMITING VALVES

HSM4789U14CR

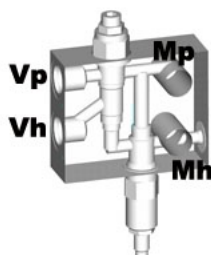


| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|--------------------------------------|----------------|--------------|---|--------------|-------------------|
| CBPA-20M + RV10-26 | 76 | 240 | 4:1 pilot ratio, for CHAR-LYNN 2000, BB-14L x 2 | 7/8" | \$ 796.00 |
| HSM4789U14CR manifold only \$ 342.00 | | | | | |

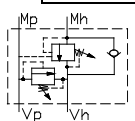


- Manifold dimensions, 120 x 99 x 39mm (excluding cartridges)

HSM4788U14LR



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|--------------------------------------|----------------|--------------|---|--------------|-------------------|
| CBPA-20M + RV10-26 | 76 | 240 | 4:1 pilot ratio, for Ross MB & ME, BB-14L x 2 | 7/8" | \$ 671.00 |
| HSM4788U14LR manifold only \$ 217.00 | | | | | |



- Manifold dimensions, 120 x 99 x 39mm (excluding cartridges)

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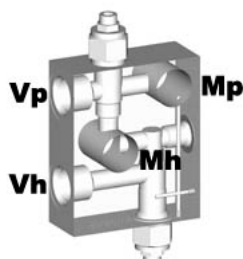
COUNTERBALANCE VALVES

BANJO BOLT MOUNTED – MOTOR TORQUE LIMITING VALVES

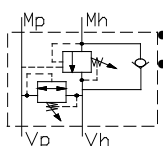


HS4747U21IR

Click on individual cartridges for more info



| Cartridges | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-------------------------------------|----------------|--------------|--|--------------|-------------------|
| CBPA-12 + RVBD-12 | 132 | 345* | 4:1 pilot ratio for CHAR-LYNN 10000 series, BB- 21L x 2 | 1 5/16" | \$ 1386.00 |
| HS4747U21IR manifold only \$ 636.00 | | | | | |



Manifold dimensions, 150 x 125 x 50mm (excluding cartridges)

* Requires steel block over 280 bar – call Hyspecs for pricing

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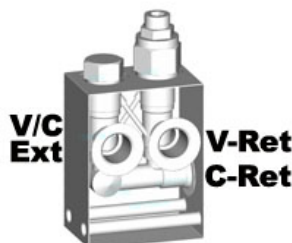
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REGENERATIVE VALVES

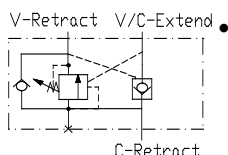


HS4681P8B

Click on individual cartridges for more info

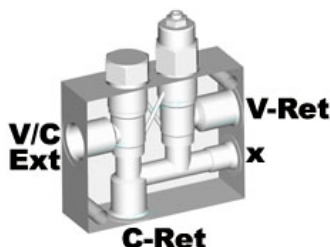


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---|---------------|-------------------|
| CBCA-LHN + CODA-XBN | 56 | 280 | Pressure sensing – 350-1200 psi adj. | 1/2" | \$ 763.00 |
| HS4681P8B manifold only \$ 281.00 | | | | | |

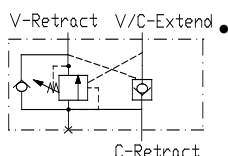


Manifold dimensions, 100 x 75 x 50mm (excluding cartridges)

HS4682P12B

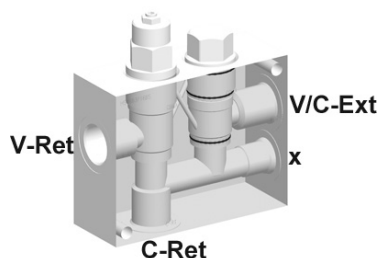


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| CBEA-LHN + COFA-XAN | 112 | 280 | Pressure sensing – 350-1200 psi adj. | 3/4" | \$ 983.00 |
| HS4682P12B manifold only \$ 380.00 | | | | | |

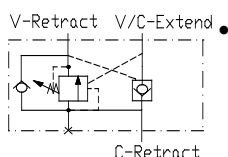


Manifold dimensions, 120 x 99 x 39mm (excluding cartridges)

HS4683P16B



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| CBGA-LHN + COHA-XAN | 240 | 280 | Pressure sensing – 350-1200 psi adj. | 1" | \$ 1560.00 |
| HS4683P16B manifold only \$ 460.00 | | | | | |



Manifold dimensions, 160 x 126 x 60mm (excluding cartridges)

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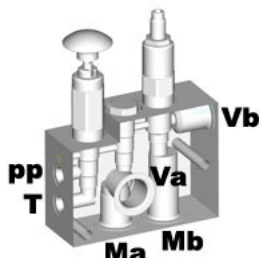
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CHAR-LYNN TWO SPEED MOTOR CONTROLS

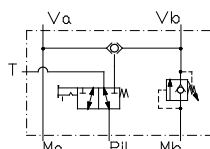
HS4928P12C



Click on individual cartridges for more info

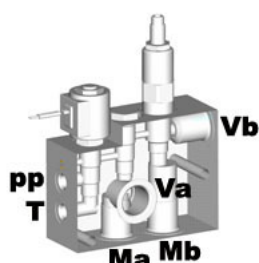


| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| LS08-30 + RV10-28 + MP08-30 | 125 | 240 | For 2000 & 10000 series, manual change over | 3/4" | \$ 685.00 |
| HS4928P12C manifold only \$ 264.00 | | | | | |

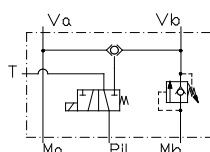


- Manifold dimensions, 130 x 100 x 50mm (excluding cartridges)

HS4928P12C



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|---|---------------|-------------------|
| LS08-30 + RV10-28 + SV08-30 | 125 | 207 | For 2000 & 10000 series, solenoid change over | 3/4" | \$ 679.00 |
| HS4928P12C manifold only \$ 264.00 | | | | | |



- Manifold dimensions, 130 x 100 x 50mm (excluding cartridges)

Cartridge Catalogue 2012

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F8 Motorised Flow Controls

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- F15 Coil Mounted
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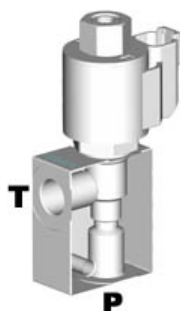
RELIEF VALVES – SOLENOID OPERATED

2-PORT

Click on individual cartridges for more info



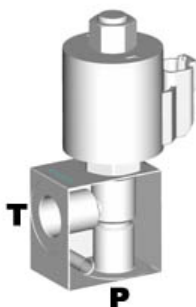
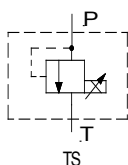
HS0820P4 or P6



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|----------------------|---------------|----------------|
| TS08-20 | 12 | 34.5 | Electro-Proportional | 1/4"-3/8" | \$ 388.00 |
| TS38-20 | 12 | 240 | Electro-Proportional | 1/4"-3/8" | \$ 399.00 |
| TS58-20 | 7.6 | 350* | High Pressure | 1/4"-3/8" | \$ 585.00 |
| TS38-21 | 1.1 | 240 | Inv. Electro. Prop. | 1/4"-3/8" | \$ 528.00 |
| TS58-21F | 1.9 | 393* | Inv. Electro. Prop. | 1/4"-3/8" | \$ 425.00 |
| TS08-27 | 19 | 240 | Inv. Electro. Prop. | 1/4"-3/8" | \$ 417.00 |
| HS0820P4, P6 manifold only \$ 78.00 | | | | | |

- Manifold dimensions, 50 x 45 x 25mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

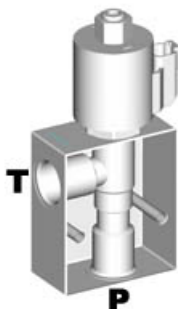
HS1020P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------------------------|----------------|--------------|----------------------|---------------|----------------|
| TS10-26 | 100 | 240 | Electro-Prop. Inc. | 3/8"-1/2" | \$ 535.00 |
| TS10-27 | 100 | 240 | Electro-Prop. Dec. | 3/8"-1/2" | \$ 535.00 |
| ERVD-10 | 3.8 | 350* | Direct acting, Inc. | 3/8"-1/2" | \$ 631.00 |
| ERVP-10 | 95 | 350* | Pilot operated, Inc. | 3/8"-1/2" | \$ 661.00 |
| HS1020P6, P8 manifold only \$ 86.00 | | | | | |

- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

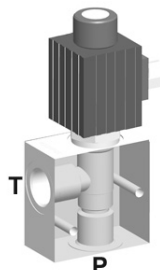
HS1220P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--------------------|---------------|----------------|
| TS12-26 | 200 | 240 | Electro-Prop. Inc. | 3/4" | \$ 741.00 |
| TS12-27 | 200 | 240 | Electro-Prop. Dec. | 3/4" | \$ 752.00 |
| HS1220P12 manifold only \$ 155.00 | | | | | |

- Manifold dimensions, 90 x 75 x 50mm (excluding cartridge)

HS1221P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|----------------------|---------------|----------------|
| ERVP-12 | 227 | 350* | Pilot operated, Inc. | 3/4" | \$ 805.00 |
| HS1221P12 manifold only \$ 155.00 | | | | | |

- Manifold dimensions, 75 x 75 x 40mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

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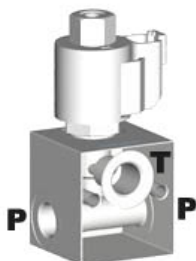
RELIEF VALVES – SOLENOID OPERATED

3-PORT

Click on individual cartridges for more info

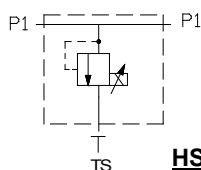


HS0820P4M or P6M

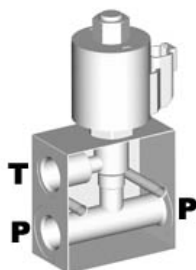


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------|---------------|-------------------|
| TS08-20 | 12 | 34.5 | Electro-Proportional | 1/4"-3/8" | \$ 423.00 |
| TS38-20 | 12 | 240 | Electro-Proportional | 1/4"-3/8" | \$ 434.00 |
| TS38-21 | 1.1 | 240 | Inv. Electro. Prop | 1/4"-3/8" | \$ 563.00 |
| TS08-27 | 19 | 240 | Inv. Electro. Prop | 1/4"-3/8" | \$ 452.00 |
| TS58-21F | 1.8 | 393* | Inv. Electro. Prop | 1/4"-3/8" | \$ 460.00 |
| HS0820P4M, P6M manifold only \$ 113.00 | | | | | |

- Manifold dimensions, 55 x 50 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – *call Hyspecs for pricing*



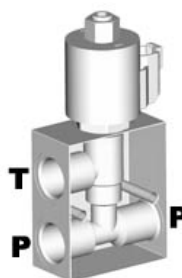
HS1020P8N or P12N



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------|---------------|-------------------|
| TS10-26 | 100 | 240 | Electro-Prop. Inc. | 1/2"-3/4" | \$ 551.00 |
| TS10-27 | 100 | 240 | Electro-Prop. Dec. | 1/2"-3/4" | \$ 551.00 |
| ERVD-10 | 3.8 | 350* | Direct acting, Inc. | 1/2"-3/4" | \$ 627.00 |
| ERVP-10 | 95 | 350* | Pilot operated, Inc. | 1/2"-3/4" | \$ 657.00 |
| HS1020P8N or P12N manifold only \$ 102.00 or \$ 127.00 | | | | | |

- Manifold dimensions, 80 x 75 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – *call Hyspecs for pricing*

HS1220P12N



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|--------------------|---------------|-------------------|
| TS12-26 | 200 | 240 | Electro-Prop. Inc. | 3/4" | \$ 752.00 |
| TS12-27 | 200 | 240 | Electro-Prop. Dec. | 3/4" | \$ 752.00 |
| HS1220P12N manifold only \$ 166.00 | | | | | |

- Manifold dimensions, 90 x 75 x 37mm (excluding cartridge)

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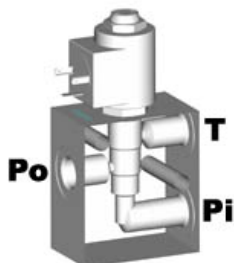
PRESSURE REDUCING VALVES – SOLENOID OPERATED



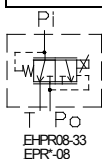
Single

Click on individual cartridges for more info

HS0830P4 or P6

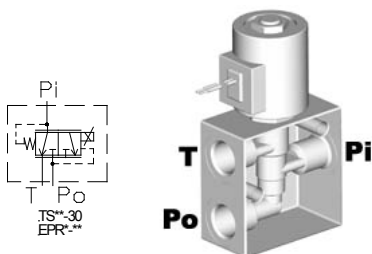


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-----------------------------------|---------------|----------------|
| EHPR08-33 | 15 | 207 | Electro-proportional, 0-26 bar | 1/4"-3/8" | \$ 488.00 |
| EPRR-08 | 1.9 | 350* | Electro-proportional, 0-27.6 bar | 1/4"-3/8" | \$ 652.00 |
| EPRS-08 | 23 | 350* | Electro-proportional, 3.5-345 bar | 1/4"-3/8" | \$ 697.00 |
| HS0830P4 or P6 manifold only \$ 127.00 | | | | | |



- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

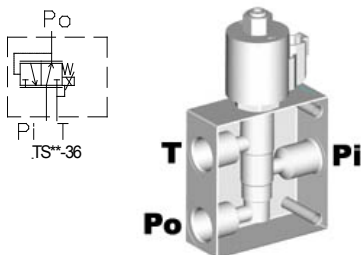
HS1030P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-----------------------------------|---------------|----------------|
| TS10-36 | 60 | 240 | Electro-proportional | 3/8"-1/2" | \$ 781.00 |
| EPRR-10 | 3.8 | 350* | Electro-proportional, 0-69 bar | 3/8"-1/2" | \$ 702.00 |
| EPRS-10 | 46 | 350* | Electro-proportional, 3.5-345 bar | 3/8"-1/2" | \$ 722.00 |
| HS1030P6 or P8 manifold only \$ 132.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

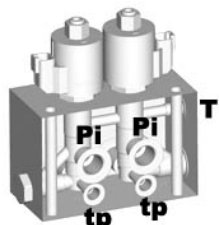
HS1230P12



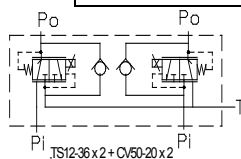
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------------------------------|---------------|----------------|
| TS12-36 | 189 | 276 | Electro-proportional | 3/4" | \$ 773.00 |
| EPRS-12 | 91 | 350* | Electro-proportional, 3.5-345 bar | 3/4" | \$ 911.00 |
| HS1230P12 manifold only \$ 241.00 | | | | | |

- Manifold dimensions, 99 x 75 x 39mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS7512P8DC (Double)



2 x Po on back face
Cartridge Catalogue 2012



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|-------------------|---------------|----------------|
| TS12-36 x 2 + CV50-20 x 2 | 189** | 276 | Free reverse flow | 1/2" | \$ 2045.00 |
| HS7512P8DC manifold only \$ 761.00 | | | | | |

- Manifold dimensions, 150 x 100 x 75mm (excluding cartridge)
- **Special conditions apply to the flow – call Hyspecs

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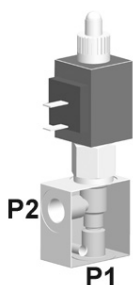
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FLOW CONTROLS – SOLENOID OPERATED

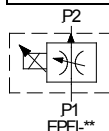
TWO PORT PRESSURE COMPENSATED

HS0820P4 or P6

Click on individual cartridges for more info

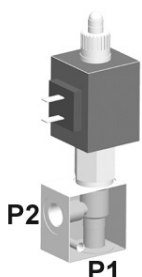


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---------------------|---------------|-------------------|
| EPFI-08-C | 11.4 | 350* | Direct acting, N.C. | 1/4"-3/8" | \$ 507.00 |
| EPFI-08-O | 11.4 | 350* | Direct acting, N.O. | 1/4"-3/8" | \$ 507.00 |
| HS0820P4 or P6 manifold only \$ 132.00 | | | | | |

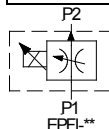


- Manifold dimensions, 50 x 45 x 25mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS1020P6 or P8

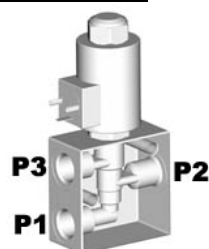


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---------------------|---------------|-------------------|
| EPFI-10-C | 30 | 350* | Direct acting, N.C. | 3/8"-1/2" | \$ 722.00 |
| EPFI-10-O | 30 | 350* | Direct acting, N.O. | 3/8"-1/2" | \$ 722.00 |
| HS1020P6 or P8 manifold only \$ 132.00 | | | | | |

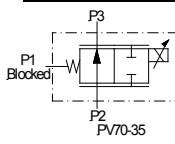
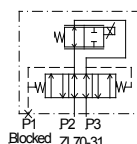
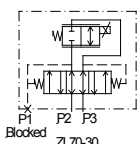


- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS1030P6 or P8

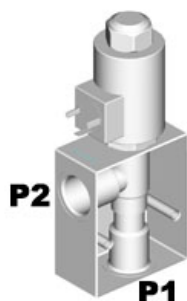


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--------------------------------|---------------|-------------------|
| ZL70-30 | 20 | 200 | Bi-directional, NC, P1 blocked | 3/8"-1/2" | \$ 711.00 |
| ZL70-31 | 14 | 200 | Bi-directional, NO, P1 blocked | 3/8"-1/2" | \$ 711.00 |
| PV70-35 | 53 | 207 | P1 blocked, N.O. | 3/8"-1/2" | \$ 799.00 |
| HS1030P6 or P8 manifold only \$ 132.00 | | | | | |

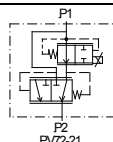
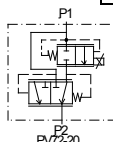


- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

HS1220P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-----------------|---------------|-------------------|
| PV72-20 | 56 | 240 | Normally closed | 3/4" | \$ 694.00 |
| PV72-21 | 56 | 240 | Normally open | 3/4" | \$ 694.00 |
| HS1220P12 manifold only \$ 155.00 | | | | | |



- Manifold dimensions, 85 x 75 x 50mm (excluding cartridge)

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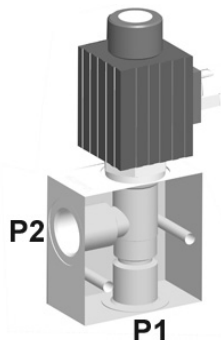
FLOW CONTROLS – SOLENOID OPERATED



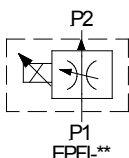
TWO PORT PRESSURE COMPENSATED

HS1221P12

Click on individual cartridges for more info

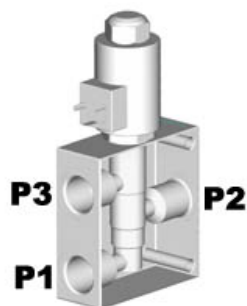


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|----------------------------|----------------|--------------|---------------------|---------------|-------------------|
| EPFI-12-C | 56 | 350* | Direct acting, N.C. | 3/4" | \$ 800.00 |
| EPFI-12-O | 56 | 350* | Direct acting, N.O. | 3/4" | \$ 800.00 |
| HS1221P12 manifold only \$ | | | | | |

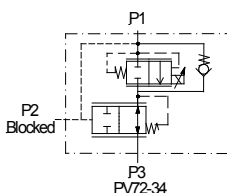
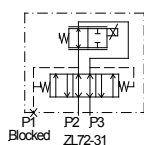
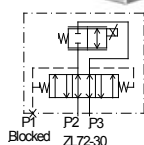


- Manifold dimensions, 75 x 75 x 40mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS1230P12

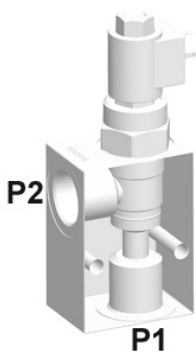


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---------------------------------|---------------|-------------------|
| ZL72-30 | 50 | 240 | Bi-directional, normally closed | 3/4" | \$ 896.00 |
| ZL72-31 | 50 | 240 | Bi-directional, normally open | 3/4" | \$ 864.00 |
| PV72-34 | 57 | 240 | Free-reverse flow | 3/4" | \$ 864.00 |
| HS1230P12 manifold only \$ 241.00 | | | | | |

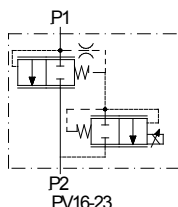
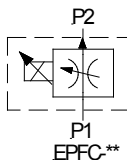


- Manifold dimensions, 99 x 75 x 39mm (excluding cartridge)

HS1620P12 or P16



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|----------------------------|---------------|-------------------|
| PV16-23 | 170 | 240 | Non-compensated, N.C. | 3/4"-1" | \$ 1140.00 |
| EPFC-16 | 76 | 350* | Pressure compensated, N.C. | 3/4"-1" | \$ 1104.00 |
| HS1620P12 or P16 manifold only \$ 189.00 & \$ 207.00 | | | | | |



- Manifold dimensions, 85 x 75 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

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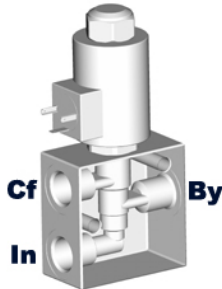
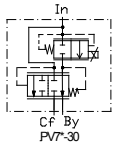
FLOW CONTROLS – SOLENOID OPERATED

TWO/THREE PORT PRESSURE COMPENSATED



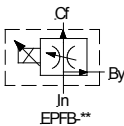
HS0830P6

Click on individual cartridges for more info

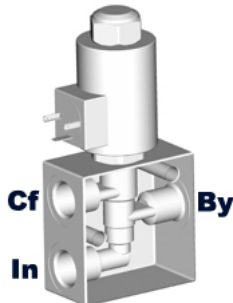


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|----------------|
| PV08-30 | 23 | 240 | 0-11 l/min R.F. 2-port block by-pass, N.C. | 1/4"-3/8" | \$ 605.00 |
| PV08-31 | 23 | 240 | 0-11 l/min R.F. 2-port block by-pass, N.O. | 1/4"-3/8" | \$ 605.00 |
| EPFB-08-C | 18.9 | 350* | 0-11.4 l/min R.F. N.C. | 1/4"-3/8" | \$ 577.00 |
| EPFB-08-O | 18.9 | 350* | 0-11.4 l/min R.F. N.O. | 1/4"-3/8" | \$ 577.00 |
| HS0830P4 or P6 manifold only \$ 127.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing



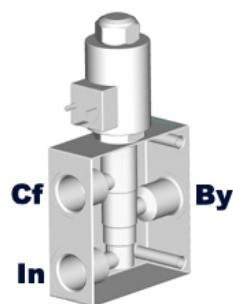
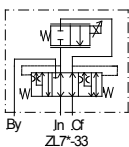
HS1030P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|----------------|
| PV70-30 | 50 | 240 | 3-port R.F: 0-30 l/min, 2-port R.F: 0-26 l/min block by-pass, N.C. | 3/8"-1/2" | \$ 728.00 |
| PV70-31 | 50 | 240 | 3-port R.F: 0-30 l/min, 2-port R.F: 0-26 l/min block by-pass, NC block by-pass, N.O. | 3/8"-1/2" | \$ 728.00 |
| EPFB-10-C | 38 | 350* | 0-30 l/min R.F. N.C. | 3/8"-1/2" | \$ 712.00 |
| EPFB-10-O | 38 | 350* | 0-30 l/min R.F. N.O. | 3/8"-1/2" | \$ 712.00 |
| HS1030P6 or P8 manifold only \$ 132.00 | | | | | |

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

HS1230P12



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--|---------------|----------------|
| PV72-30 | 114 | 240 | 3-port R.F: 0-64 l/min, 2-port R.F: 0-46 l/min block by-pass, N.C. | 3/4" | \$ 945.00 |
| PV72-31 | 114 | 240 | 3-port R.F: 0-53 l/min, 2-port R.F: 0-42 l/min block by-pass, N.O. | 3/4" | \$ 945.00 |
| ZL72-33 | 60 | 240 | 2-port R.F: 0-50 l/min Bi-directional between Cf & bypass, by blocking the In port. N.C. | 3/4" | \$ 961.00 |
| ZL72-36 | 57 | 240 | 2 or 3-port valve, 0-45 l/min regulated flow | 3/4" | \$ 961.00 |
| EPFB-12-C | 98.4 | 350* | 0-56.8 l/min R.F. N.C. | 3/4" | \$ 896.00 |
| EPFB-12-O | 98.4 | 350* | 0-56.8 l/min R.F. N.O. | 3/4" | \$ 896.00 |
| HS1230P12 manifold only \$ 241.00 | | | | | |

- Manifold dimensions, 100 x 75 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

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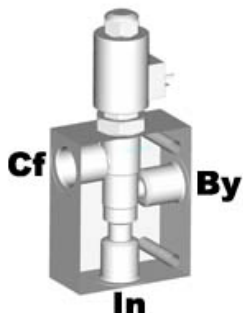
FLOW CONTROLS – SOLENOID OPERATED



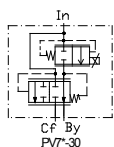
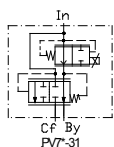
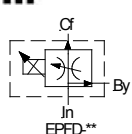
TWO/THREE PORT PRESSURE COMPENSATED

HS1630P12

Click on individual cartridges for more info

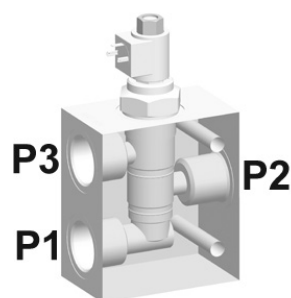


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| PV76-30 | 150 | 240 | 3-port R.F: 0-95 l/min 2-port R.F: 0-85 l/min block by-pass, N.C. | 3/4"-1" | \$ 1120.00 |
| PV76-31 | 150 | 240 | 3-port R.F: 0-76 l/min 2-port R.F: 0-80 l/min block by-pass, N.O. | 3/4"-1" | \$ 1120.00 |
| EPFD-16 | 130 | 350* | 0-76 l/min R.F. | 3/4"-1" | \$ 1319.00 |
| HS1630P12 or P16 manifold only \$ 264.00 | | | | | |



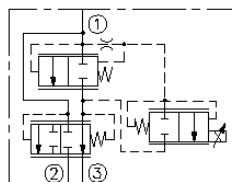
- Manifold dimensions, 125 x 100 x 50mm (excluding cartridge)
- * Requires steel block over 280 bar – call Hyspecs for pricing

HS4230P20



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---|---------------|-------------------|
| PV42-M30 | 225 | 240 | 3-port R.F: 0-190 l/min 2-port R.F: 0-130 l/min block by-pass, N.C. | 1 1/4" | \$ 997.00 |
| HS4230P20 manifold only \$ 345.00 | | | | | |

USAS/ISO:



- Manifold dimensions, 145 x 125 x 75mm (excluding cartridge)

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MOTORISED FLOW CONTROL VALVES



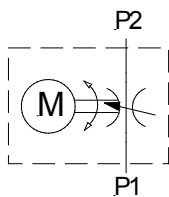
TWO PORT NON-COMPENSATED

HS1020P6 or P8 *Click on individual cartridges for more info*



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|--|---------------|-------------------|
| AE-NVA | 45 | 245 | @17.5 bar ΔP response time 7 sec, 12 or 24 VDC motor | 3/8"-1/2" | \$ 1024.00 |
| HS1020P6 or P8 manifold only \$ 86.00 | | | | | |

- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)
- DC motor dimensions, Ø60 x 168mm



HS1620P16



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---|---------------|-------------------|
| AJ-NVA | 150 | 245 | @15 bar ΔP response time 12 sec, 12 or 24 VDC motor | 1" | \$ 1358.00 |
| HS1620P16 manifold only \$ 207.00 | | | | | |

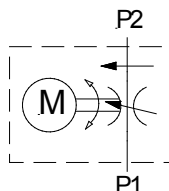
- Manifold dimensions, 100 x 70 x 50mm (excluding cartridge)
- DC motor dimensions, Ø60 x 168mm

TWO PORT PRESSURE COMPENSATED

HS1620P16



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|---|---------------|-------------------|
| AJ-FCA | 90 | 245 | @6.9 bar ΔP response time 9 sec, 12 or 24 VDC motor | 1" | \$ 1227.00 |
| HS1620P16 manifold only \$ 207.00 | | | | | |



- Manifold dimensions, 100 x 70 x 50mm (excluding cartridge)
- DC motor dimensions, Ø60 x 168mm

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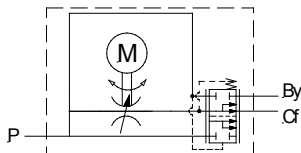
MOTORISED FLOW CONTROL VALVES



THREE PORT PRESSURE COMPENSATED

HS8207P8B

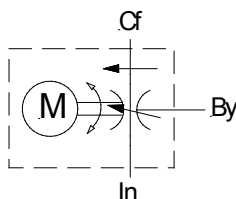
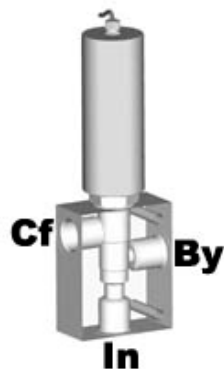
Click on individual cartridges for more info



| Cartridges | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--|---------------|-------------------|
| AE-NVA + EC50-40 | 38 | 245 | Response time 9 sec, 12 or 24 VDC motor | 1/2" | \$ 1332.00 |
| HS8207P8B manifold only \$ 184.00 | | | | | |

- Manifold dimensions, 99 x 85 x 39mm (excluding cartridge)
- DC motor dimensions, Ø60 x 168mm

HS1630P16



| Cartridge | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|--|---------------|-------------------|
| SK-FCQ | 90 | 245 | Response time 9 sec, 12 or 24 VDC motor | 1" | \$ 1403.00 |
| HS1630P16 manifold only \$ 264.00 | | | | | |

- Manifold dimensions, 125 x 100 x 50mm (excluding cartridge)
- DC motor dimensions, Ø60 x 168mm

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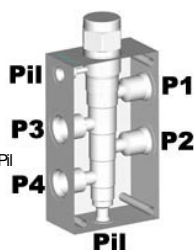
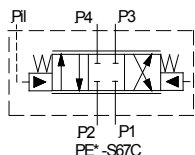
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DIRECTIONAL VALVES – PILOT OPERATED

2 WAY, 3 WAY or 4 WAY, 2 POSITION *Click on individual cartridges for more info*



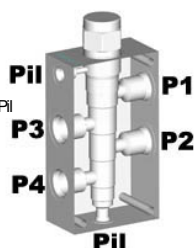
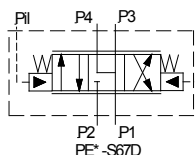
HS1255U17



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-----------------------------------|----------------|--------------|----------------------|--------------|-------------------|
| PE12-S67C | 45 | 345* | Closed centre | 1 1/16" | \$ 680.00 |
| PE12-S67D | 45 | 345* | Meter in and out | 1 1/16" | \$ 680.00 |
| PE12-S67H | 45 | 345* | Restrict motor spool | 1 1/16" | \$ 680.00 |
| PE12-S67K | 45 | 345* | Meter in only | 1 1/16" | \$ 680.00 |
| HS1255U17 manifold only \$ 360.00 | | | | | |

- Manifold dimensions, 150 x 100 x 50mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

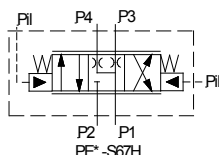
HS1655U17



| Cartridge Options | Q max l/min | P max bar | Notes | Ports UNO | Assembly Price |
|-----------------------------------|----------------|--------------|----------------------|--------------|-------------------|
| PE16-S67C | 90 | 345* | Closed centre | 1 1/16" | \$ 740.00 |
| PE16-S67D | 90 | 345* | Meter in and out | 1 1/16" | \$ 740.00 |
| PE16-S67H | 90 | 345* | Restrict motor spool | 1 1/16" | \$ 740.00 |
| PE16-S67K | 90 | 345* | Meter in only | 1 1/16" | \$ 740.00 |
| HS1655U17 manifold only \$ 436.00 | | | | | |

- Manifold dimensions, 177 x 125 x 75mm (excluding cartridge)
- *Requires steel block over 280 bar – *contact Hyspecs* for pricing

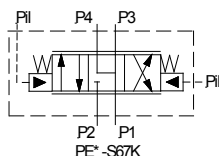
HS4255P20S



CONTACT HYSPECS

| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|------------------------------------|----------------|--------------|----------------------|---------------|-------------------|
| PE42-S67C | 170 | 345 | Closed centre | 1 1/4" | \$ 1079.00 |
| PE42-S67D | 170 | 345 | Meter in and out | 1 1/4" | \$ 1079.00 |
| PE42-S67H | 170 | 345 | Restrict motor spool | 1 1/4" | \$ 1079.00 |
| PE42-S67K | 170 | 345 | Meter in only | 1 1/4" | \$ 1079.00 |
| HS4255P20S manifold only \$ 575.00 | | | | | |

- Manifold dimensions, 190 x 125 x 75mm (excluding cartridge)
- Steel block



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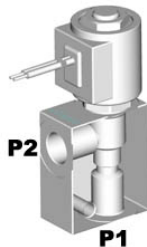
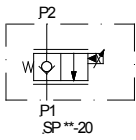
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DIRECTIONAL VALVES – SOLENOID OPERATED



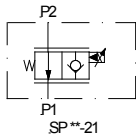
2 WAY, 2 POSITION

HS0820P4 or P6 *Click on individual cartridges for more info*

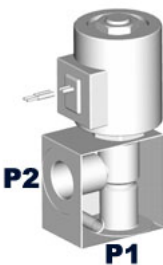


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| SP08-20 | 22 | 250 | Poppet-type, N.C. | 1/4"-3/8" | \$ 354.00 |
| SP08-21 | 22 | 207 | Poppet-type, N.O. | 1/4"-3/8" | \$ 424.00 |
| SP08-22 | 30 | 207 | Poppet-type, N.C. | 1/4"-3/8" | \$ 369.00 |
| SP08-25 | 15.4 | 207 | Spool-type, N.O. | 1/4"-3/8" | \$ 354.00 |
| HS0820P4 or P6 manifold only \$ 78.00 | | | | | |

- Manifold dimensions, 50 x 45 x 25mm (excluding cartridge)

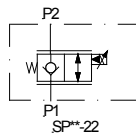


HS1020P6 or P8

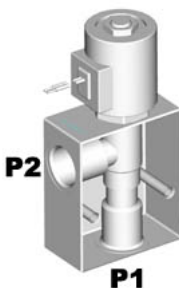


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| SP10-20 | 68 | 250 | Poppet-type, N.C. | 3/8"-1/2" | \$ 368.00 |
| SP10-21 | 60 | 250 | Poppet-type, N.O. | 3/8"-1/2" | \$ 393.00 |
| SP10-24 | 26.5 | 207 | Spool-type, N.C. | 3/8"-1/2" | \$ 483.00 |
| HS1020P6 or P8 manifold only \$ 86.00 | | | | | |

- Manifold dimensions, 50 x 50 x 35mm (excluding cartridge)

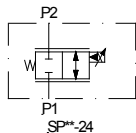


HS1220P12

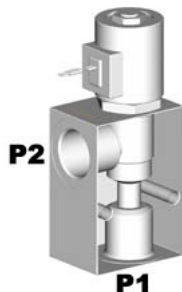


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-----------------------------------|----------------|--------------|-------------------|---------------|-------------------|
| SP12-20 | 100 | 250 | Poppet-type, N.C. | 3/4" | \$ 467.00 |
| SP12-21 | 200 | 250 | Poppet type, N.O. | 3/4" | \$ 512.00 |
| HS1220P12 manifold only \$ 155.00 | | | | | |

- Manifold dimensions, 90 x 75 x 50mm (excluding cartridge)



HS1620P12 or P16



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|-------------------|---------------|-------------------|
| SP16-20 | 265 | 250 | Poppet-type, N.C. | 3/4"-1" | \$ 532.00 |
| SP16-21 | 265 | 250 | Poppet type, N.O. | 3/4"-1" | \$ 601.00 |
| HS1620P12 or P16 manifold only \$ 189.00 & \$ 207.00 | | | | | |

- Manifold dimensions, 90 x 75 x 50mm (excluding cartridge)

Cartridge Catalogue 2012



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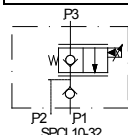
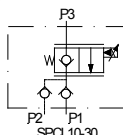
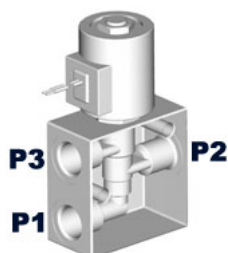
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DIRECTIONAL VALVES – SOLENOID OPERATED

3 WAY, 2 POSITION

HS1030P6 or P8

Click on individual cartridges for more info



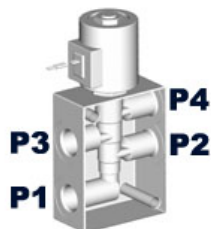
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|------------------------------------|---------------|----------------|
| SPCL10-30 | 57 | 250 | With check isolated load sense | 3/8"-1/2" | \$ 434.00 |
| SPCL10-32 | 57 | 250 | With check non-isolated load sense | 3/8"-1/2" | \$ 399.00 |

HS1030P6 or P8 manifold only \$ 132.00

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

4 WAY, 2 POSITION

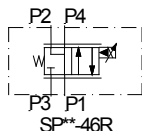
HS0840P4 or P6



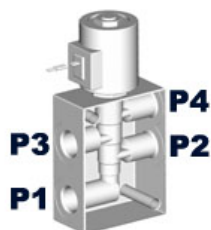
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|----------------------------------|---------------|----------------|
| SP08-46R | 11 | 247 | 2 position, normally motor spool | 1/4"-3/8" | \$ 429.00 |

HS0840P4 or P6 manifold only \$ 138.00

- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)



HS1040P6 or P8



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|----------------------------------|---------------|----------------|
| SP10-46R | 23 | 247 | 2 position, normally motor spool | 3/8"-1/2" | \$ 472.00 |

HS1040P6 or P8 manifold only \$ 150.00

- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)

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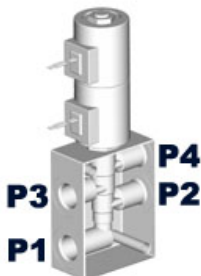
E-mail: hyspecs@hyspecs.co.nz

DIRECTIONAL VALVES – SOLENOID OPERATED

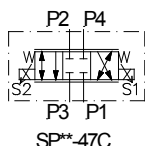


4 WAY, 3 POSITION

HS0840P4 or P6 *Click on individual cartridges for more info*

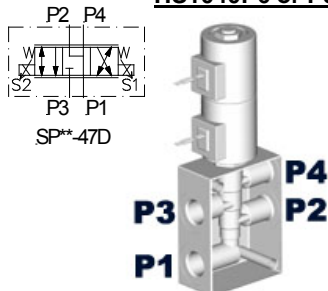


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---------------------------------------|---------------|-------------------|
| SP08-47C | 11 | 240 | 3 position, spool type, closed centre | 1/4"-3/8" | \$ 476.00 |
| SP08-47D | 11 | 240 | 3 position, spool type, motor spool | 1/4"-3/8" | \$ 476.00 |
| SP08-47CL | 7 | 240 | Low flow version | 1/4"-3/8" | \$ 494.00 |
| SP08-47DL | 7 | 240 | Low flow version | 1/4"-3/8" | \$ 494.00 |
| HS0840P4 or P6 manifold only \$ 138.00 | | | | | |

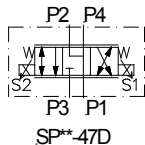


- Manifold dimensions, 75 x 65 x 37mm (excluding cartridge)

HS1040P6 or P8



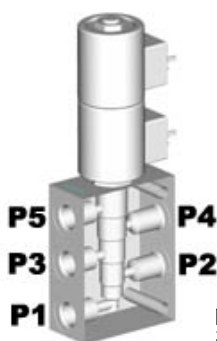
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---------------------------------------|---------------|-------------------|
| SP10-47C | 23 | 248 | 3 position, spool type, closed centre | 3/8"-1/2" | \$ 717.00 |
| SP10-47D | 23 | 207 | 3 position, spool type, motor spool | 3/8"-1/2" | \$ 717.00 |
| HS1040P6 or P8 manifold only \$ 150.00 | | | | | |



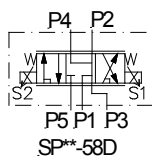
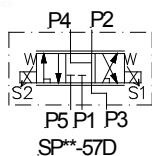
- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)

5 WAY, 3 POSITION

HS0850P4 or P6



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|----------------------------------|----------------|--------------|--|---------------|-------------------|
| SP08-57D | 9.5 | 240 | Load sense, motor spool | 1/4"-3/8" | \$ 704.00 |
| SP08-58D | 15 | 240 | Load sense, motor spool with brake release | 1/4"-3/8" | \$ 704.00 |
| HS1050P6 manifold only \$ 252.00 | | | | | |



- Manifold dimensions, 90 x 75 x 37mm (excluding cartridge)

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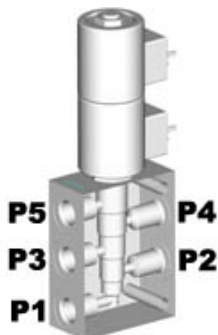
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DIRECTIONAL VALVES – SOLENOID OPERATED

5 WAY, 3 POSITION

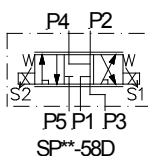
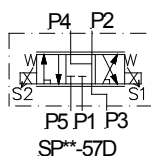
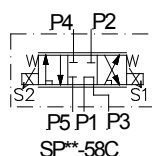
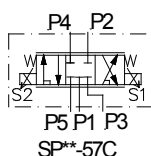
HS1050P6

Click on individual cartridges for more info



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|----------------------------------|----------------|--------------|--|---------------|-------------------|
| SP10-57C | 23 | 250 | Load sense, closed centre | 3/8" | \$ 670.00 |
| SP10-58C | 23 | 250 | Load sense, closed centre, drain to tank | 3/8" | \$ 670.00 |
| SP10-57D | 23 | 250 | Load sense, motor spool | 3/8" | \$ 670.00 |
| SP10-58D | 23 | 250 | Load sense, motor spool with brake release | 3/8" | \$ 670.00 |
| HS1050P6 manifold only \$ 252.00 | | | | | |

- Manifold dimensions, 99 x 65 x 39mm (excluding cartridge)



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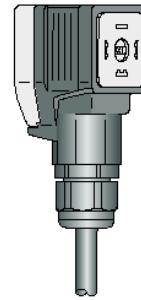
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PROPORTIONAL VALVE CONTROLLERS



Click on individual models for more info

PROPORTIONAL VALVE CONTROLLERS/AMPLIFIERS – COIL MOUNTED

A convenient, plug-mounted control amplifier for controlling HydraForce proportional valves that have solenoids with DIN 43650A/ISO 4400 electrical connectors.

| Model | Supply Voltage | Control Input Signal | Output Current | Ramp Up and/or Down | Dither Frequency | IP Rating | List Price |
|---------|----------------|--|----------------|---|------------------------|-----------|------------|
| 7114950 | 9–32 VDC | 10K external potentiometer (accepts 5K to 50K pots) or 0–5 VDC signal, or 0–20 mA current signal | Up to 2000mA | 0.01–5.0 seconds (independently adjustable) | 70–350Hz (adjustable) | IP65 | \$ 540.00 |
| 4000161 | | | Up to 1200mA | | | | |
| 4000165 | 9–32 VDC | 0–10 VDC | Up to 1200mA | 0.01–5.0 seconds (independently adjustable) | 70–350Hz (adjustable) | IP65 | \$ 540.00 |
| 4000070 | | | Up to 2000mA | | | | |
| 4000169 | 9–32 VDC | 4–20 mA current signal | Up to 1200mA | 0.01–5.0 seconds (independently adjustable) | 70–350Hz (adjustable) | IP65 | \$ 540.00 |
| 4000171 | | | Up to 600mA | | | | |
| 4000172 | 9–32 VDC | 10K external potentiometer (accepts 5K to 50K pots), or 0–5 VDC current signal | Up to 2000mA | N/A | 200Hz | IP65 | \$ 490.00 |
| 4000226 | 9–32 VDC | Power supply voltage used as control signal, soft shift | Up to 650mA | 0.01–5.0 seconds (independently adjustable) | 300Hz + or – 10% fixed | IP65 | \$ 410.00 |
| 4000072 | | | Up to 2000mA | | | | |

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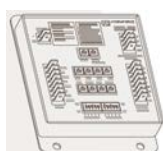
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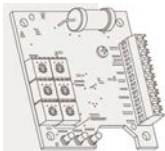
PROPORTIONAL VALVE CONTROLLERS

PROPORTIONAL VALVE CONTROLLERS – VARIOUS [Click on individual models for more info](#)

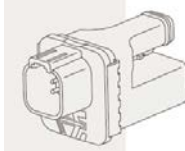
| Model | Supply Voltage | Control Input Signal | Output Current | Ramp Up and/or Down | Dither Frequency | IP Rating | List Price |
|---|---|--|---|---|-----------------------|-----------|------------|
| HS20101000 | 9–32 VDC | Built-in 10K pot and switch | Up to 2500mA | N/A | 150 ± 10% Hz | IP44 | \$ 485.00 |
| 4000149 (Dual solenoid multi-function valve driver) | 9–32 VDC | 0-5 VDC, 10 VDC | Up to 2000mA, seven outputs | 0.01–5.0 seconds (independently adjustable) | 70-350Hz (adjustable) | IP65 | \$ 885.00 |
| 4000194 (PCB only) | 9–32 VDC | 10K external potentiometer (accepts 5K to 50K pots) or 0–5 VDC signal, or 0–20 mA current signal | Up to 1200mA | 0.01–5.0 seconds (independently adjustable) | 70-350Hz (adjustable) | NA | \$ 540.00 |
| 4000196 (PCB only) | | | Up to 600mA | | | | |
| 4000136 (DIN rail mount) | 9–32 VDC | 10K external potentiometer (accepts 5K to 50K pots) or 0–5 VDC signal, or 0–20 mA current signal | Up to 2000mA | 0.01–5.0 seconds (independently adjustable) | 70-350Hz (adjustable) | NA | \$ 680.00 |
| 4204030 (EVDR1) | 9–32 VDC (requires Deutsch DT06-6S style coil connector) Computer Programmable (Software 4001618) | 0-5K external potentiometer or 0–5 or 0-10 VDC signal, or 0–20 or 4-20 mA current signal or PWM 5 to 95%, 1.5V to 3.5V, 100 Hz to 10 KHz | 50 to 2000mA, single or dual output | 0.0–5.0 seconds (independently adjustable) | 70-350Hz (adjustable) | IP67 | \$ 615.00 |
| 4000245 (EVDR4) five-valve driver | 9–32 VDC | Universal input, 2PWM, 4 analog / digital | 2A, 1 on/off, 4 PWM | - | - | IP67 | \$ 1270.00 |
| 4000352 (ECU2415) | 9–30 VDC | 39 Universal inputs | Up to 3000mA, 24 PWM or digital high-side drivers | - | - | IP67 | \$ 1730.00 |



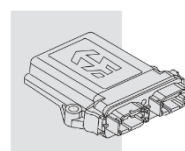
4000149 (METAL HOUSING)



4000194/196 (PCB)



EVDR1 (PLUG IN STYLE)



THERMOPLASTIC EVDR4



ECU-2415 CONTROLLER

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CONTENTS SECTION G – EXCAVATOR VALVING & ACCESSORIES**G1 Excavator Valving**

- G1 Introduction
- G3 HS9501 - Pilot Valve
- G4 HS9501 - Quickhitch Valve – Double Acting
- G5 HS9502 - Tilt Control Valve
- G6 HS9503 - Quickhitch Valve – Single Acting
- G7 HS9504 - Tilt & Thumb Valve
- G8 HS9505 - Tilt Only With 5-Port Relief
- G9 HS9506 - Load Sense Tilt Only with 5-Port Relief
- G10 HS9507 - Quickhitch, Tilt & Thumb Valve
- G11 HS9508 - Quickhitch & Tilt with 5-Port Relief
- G12 HS9509 - Quickhitch & Tilt
- G13 HS9510 - Low Pressure Quickhitch
- G14 HS9512 - Thumb Control
- G15 HS9513 - Two Inlets, Quickhitch & Thumb
- G16 HS9514 - Proportional Pilot Control of Main Spool
- G17 HS9515 - Two Stage Pilot Control of Main Spool
- G18 HS9516 - Tilt Control, High Flow
- G19 HS9521 - Load Sense Tilt Control With Dual Counterbalance
- G20 HS9522 - Load Sense Tilt Control With Dual Counterbalance, High Flow
- G21 HS9523 - Load Sense & Negative Controlled Tilt with Dual Counterbalance
- G22 HS8222P12GRCS - Dual Pump Flow Sharing Valve
- G23 SAFEX™ Valves – Excavator Host Burst Safety Valves

G25 Excavator Valving Accessories

- G25 Multi Function Ergonomic Handles

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EXCAVATOR VALVING - HYSPECS

INTRODUCTION

- Custom designed cartridge valve manifolds, designed specifically to control excavator attachments.
- Features:
 - Compact design allows valving to be positioned in confined spaces where others do not fit.
 - Manifold design minimises oil leakage paths
 - Reliable low current draw solenoids provide millions of cycle lifetime
 - Hardened spools and cages for longer life
 - All work ports are located on single block face
 - Can be operated continuously in temperatures up to 100°C without challenging the coils insulation.
 - Integral pressure reducing/relieving valves guard against pressure spikes and thermal shock.
 - Low pressure drops
- Material:
 - Aluminium or steel for pressures up to 280 bar and 350 bar respectively.
 - All blocks are either anodised or 'blackfasted' to protect your investment.

MODEL ORDER CODE

HS950* **P4** * * * ** **D** *

Signifies specific model see table below

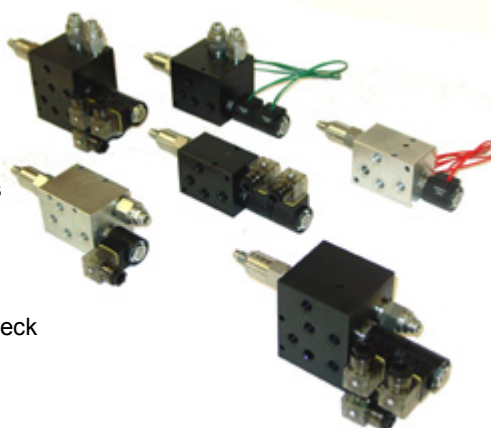
1/4" BSPP ports

Number of cartridges in block, where B = 2
C = 3, D = 4 etc

S = Steel block, blank = aluminium
P = Pressure reducer, K = Pilot operated check

12 or 24 VDC

L = coil with flying leads
G = coil with DIN plug



| CODE | MAIN PURPOSE | VALVES INCLUDED |
|------------------|--|---|
| HS9501P4BP**D* | Piloting of main spool | Pressure reducer, 3 position solenoid valve |
| HS9501P4BPS**D* | Quickhitch | Pressure reducer, 2 position solenoid valve |
| HS9502P4CPS**D* | Tilt bucket (S/A or equal area ram/s), low flow | Pressure reducer, 3 position solenoid valve, 4-port cross line relief valve |
| HS9503P4BK**D* | S/A Quickhitch | 2 position solenoid valve, pilot operated check valve |
| HS9504P4EPS**D* | Tilt bucket (S/A or equal area ram/s) & Thumb | Pressure reducer, 3 position solenoid valve, 4-port cross line relief valve, Cetop 3, 5-port cross line relief valve |
| HS9505P4DPS**D* | Tilt bucket (D/A ram/s) | Pressure reducer, 3 position solenoid valve, 5-port cross line relief valve |
| HS9506P4EPRS**D* | Load sense Tilt bucket (D/A ram/s) | Pressure reducer, Load sensing 3 position solenoid valve, 5-port cross line relief valve |
| HS9507P4FPS**D* | Tilt (S/A or equal area ram/s), Quickhitch & Thumb | Pressure reducer, 2 & 3 position solenoid valves, 4-port cross line relief valve, Cetop 3, 5-port cross line relief valve |
| HS9508P4FPS**D* | Quickhitch & Tilt bucket (D/A ram/s) | Pressure reducer, 2 & 3 position solenoid valves, 5-port cross line relief valve |
| HS9509P4FPS**D* | Quickhitch & Tilt bucket (S/A or equal area ram/s) | Pressure reducer, 2 & 3 position solenoid valves, 4-port cross line relief valve |
| HS9510P4A**D* | Low pressure Quickhitch | 2 position solenoid valve with all ports on one face |

(Continued on next page)

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EXCAVATOR VALVING - HYSPECS

| CODE | MAIN PURPOSE | VALVES INCLUDED |
|------------------|--|--|
| HS9512CPRS**D* | Thumb control (single DA cylinder) | Pressure reducer, Cetop3, 3 position solenoid valve, 5-port cross line relief valve |
| HS9513HPRFS**D* | Two inlets Quickhitch & thumb (single D/A ram) | Checks, Pressure reducer, 2 & 3 position solenoid valves (cetop3 for thumb), speed control & 5-port cross line relief valve on the thumb |
| HS9514P4BP**D* | Proportional pilot control of main spool | Proportional pressure reducing/relieving, 3-position solenoid valve |
| HS9515P4CP**D* | Two stage pilot control of main spool | Pressure reducer, 3-position solenoid valve and 2 position 3 way solenoid selector |
| HS9516P4CPS**D* | Tilt control, high flow | Pressure reducer, 3-position solenoid valve, cross line relief |
| HS9521P6FPMS**D* | Load sense tilt control with dual counterbalance | Pressure reducer, Cetop 3, load sense check and double counterbalance valve |
| HS9522P6FPMS**D* | Load sense tilt control with dual counterbalance, high flow | Pressure reducer, Cetop 5, load sense check valves and double counterbalance valves |
| HS9523P6GPMS**D* | Load sense tilt control with dual counterbalance and negative control port | Pressure reducer, Cetop 3, load sense check valves, double counterbalance valve and low pressure, pressure reducer |

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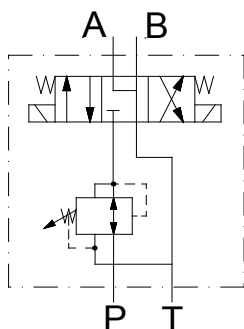
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EXCAVATOR VALVING – HYSPECS

HS9501 - PILOT VALVE



- Pilot valves are used to provide pilot pressure to the auxiliary spool on an excavator. Auxiliary spools are often used to attach rotating grapples. This valve gives the operator finger tip control of that new attachment. A pressure reducer/reliever provides the user with a means of setting up the desired flow with proportional auxiliary spools.

| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|----------------|---|--------------------------|---------------|-----------|
| HS9501P4BP**DL | Pilot valve, aluminium, flying leads | 207 | 12 or 24 | \$ 693.00 |
| HS9501P4BP**DG | Pilot valve, aluminium, DIN plug with LED | 207 | 12 or 24 | \$ 777.00 |

** Denotes coil voltage

- Valve includes alloy manifold, 1 x 4-way 3-position solenoid cartridge valve and coils and 1 x pressure reducer/reliever.
- 4 ports, A, B, P and T, 1/4" BSPP
- Valve dimensions, 248mm x 63mm x 51mm (L x W x H)
- Electro-proportional pressure reducing option is available – *Consult Hyspecs*

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|-----------------|---|-----------|
| HS9501P4BP | Pilot manifold, aluminium | \$ 228.00 |
| HS9501P4BPS | Pilot manifold, steel | \$ 304.00 |
| PR10-32A-0-N-04 | Pressure reducer/reliever (5.5 – 27.6 bar) | \$ 152.00 |
| SV08-47D-0-N-0 | 4-way, 3-position solenoid valve (P blocked, A & B to T in neutral) | \$ 221.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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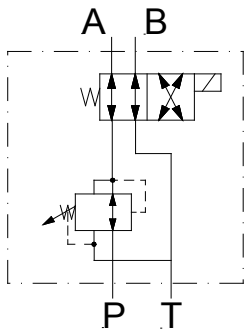
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EXCAVATOR VALVING – HYSPECS

HS9501 - QUICK HITCH VALVE – DOUBLE ACTING



- Quick hitch valves are used to clamp, hold and release excavator attachments via a quick hitch cylinder at the end of the excavator boom.

| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|-----------------|---|--------------------------|---------------|-----------|
| HS9501P4BPS**DL | Quick hitch valve, steel, flying leads | 345 | 12 or 24 | \$ 770.00 |
| HS9501P4BPS**DG | Quick hitch valve, steel, DIN plug with LED | 345 | 12 or 24 | \$ 854.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x 4-way 2-position solenoid valve and coil and a pressure reducer/reliever.
- 4 ports, A, B, P and T, 1/4" BSPP
- Valve dimensions, 208mm x 63mm x 51mm (L x W x H)

SPARE COMPONENTS [Click on individual cartridges for more info](#)

LIST

| | | |
|-----------------|-----------------------------------|-----------|
| HS9501P4BPS | Quick hitch manifold, steel | \$ 304.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| SV08-40-0-N-0 | 4-way, 2-position solenoid valve | \$ 153.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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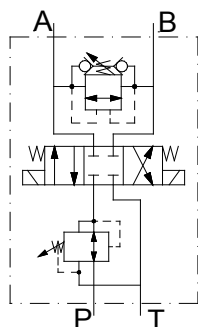
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EXCAVATOR VALVING – HYSPECS

HS9502 - TILT CONTROL VALVE



- Designed to control a Tilt Bucket with single acting or equal area ram/s.

| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|-----------------|---|-----------------------|---------------|------------|
| HS9502P4CPS**DL | Tilt valve, steel, flying leads, in-built 4-port x-line protection | 345 | 12 or 24 | \$ 1095.00 |
| HS9502P4CPS**DG | Tilt valve, steel, DIN plug with LED, in-built 4-port x-line protection | 345 | 12 or 24 | \$ 1179.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x 4-way 3-position solenoid cartridge valve and coils, 1 x bi-directional relief valve and 1 x pressure reducer/reliever.
- 4 ports, A, B, P and T, 1/4" BSPP
- Valve dimensions, 248mm x 63mm x 51mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|------------------|---|-----------|
| HS9502P4CPS | Tilt manifold, steel | \$ 332.00 |
| RVBD-08-N-S-0-50 | Bi-directional relief valve | \$ 175.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| SV08-47C-0-N-0 | 4-way, 3-position solenoid valve (All ports blocked in neutral) | \$ 221.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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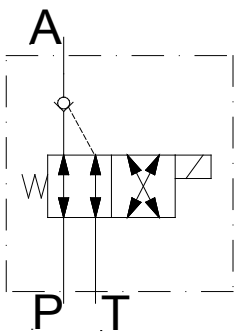
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EXCAVATOR VALVING - HYSPECS

HS9503 - QUICK HITCH VALVE - SINGLE ACTING



- Single acting quick hitch valves are used to clamp, hold and release excavator attachments via a single acting quick hitch cylinder at the end of the excavator boom.

| MODEL | DESCRIPTION | MAX. PRESS. IN <i>bar</i> | VOLTAGE <i>DC</i> | LIST |
|----------------|---|---------------------------------|----------------------|-----------|
| HS9503P4BK**DL | S/A Quick hitch valve, aluminium, flying leads | 207 | 12 or 24 | \$ 604.00 |
| HS9503P4BK**DG | S/A Quick hitch valve, aluminium, DIN plug with LED | 207 | 12 or 24 | \$ 646.00 |

** Denotes coil voltage

- Valve includes aluminium manifold, 1 x 4-way 2-position solenoid valve and coil and a pilot operated check valve.
- 3 ports, A, P and T, 1/4" BSPP
- Valve dimensions, 85mm x 37mm x 124mm (L x W x H)

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|---------------|-----------------------------------|-----------|
| HS9503P4BK | Quick hitch manifold, aluminium | \$ 304.00 |
| SV08-40-0-N-0 | 3-way, 2-position solenoid valve | \$ 153.00 |
| PC08-30-0-N-0 | Pilot operated check valve | \$ 101.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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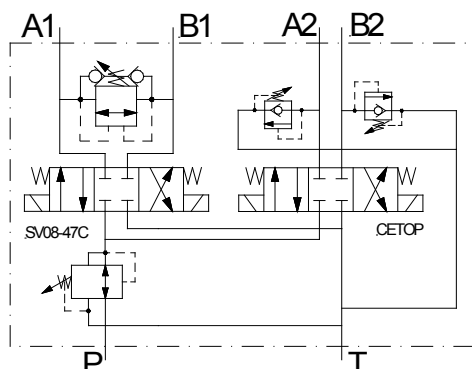
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EXCAVATOR VALVING - HYSPECS

HS9504 - TILT & THUMB VALVE



- Designed to control a Tilt Bucket with single acting or equal area ram/s and Thumb.

| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|---------------|--|-----------------------|---------------|------------|
| HS9504EPS**DL | Tilt & thumb valve, steel, flying leads, in-built 4-port and 5-port x-line protection | 345 | 12 or 24 | \$ 2573.00 |
| HS9504EPS**DG | Tilt & thumb valve, steel, DIN plug with LED, in-built 4-port and 5-port x-line protection | 345 | 12 or 24 | \$ 2657.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x 4-way 3-position solenoid cartridge valve and coils, 1 x Cetop 3 valve, 1 x bi-directional relief valve, 2 x relief valves with anti-cav, and 1 x pressure reducer/reliever.
- 1 x P (3/8" BSPP) & T(1/2" BSPP), 1 x A & B (1/4" BSPP) and 1 x A & B (3/8" BSPP)
- Valve dimensions, 250mm x 220mm x 180mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|------------------|--|------------|
| HS9504EPS | Tilt and thumb manifold, steel | \$ 1042.00 |
| RVBD-08-N-S-0-50 | Bi-directional relief valve | \$ 175.00 |
| RVPP-10-N-S-0-50 | Relief valve with anticav protection | \$ 180.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| SV08-47C-0-N-0 | 4-way, 3-position solenoid valve (All ports blocked in neutral) | \$ 221.00 |
| 02-109025 | Cetop 3 valve, 4-way, 3-position solenoid valve (All ports blocked in neutral) | \$ 378.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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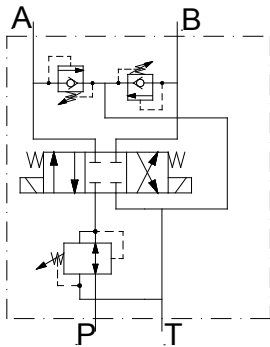
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EXCAVATOR VALVING – HYSPECS

HS9505 - TILT ONLY WITH 5-PORT RELIEF



- Designed to control a tilt bucket with a double acting cylinder.

| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|-----------------|---|--------------------------|---------------|------------|
| HS9505P4DPS**DL | Tilt valve, steel, flying leads, in-built 5-port x-line protection | 345 | 12 or 24 | \$ 1491.00 |
| HS9505P4DPS**DG | Tilt valve, steel, DIN plug with LED, in-built 5-port x-line protection | 345 | 12 or 24 | \$ 1575.00 |

** Denotes coil voltage

- Valve includes steel manifold block, 1 x 4-way 3-position solenoid cartridge valve and coils, 2 x relief valves with anti-cav, and 1 x pressure reducer/reliever.
- 4 ports, A, B, P and T, 1/4" BSPP
- Valve dimensions, 248mm x 75mm x 117mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|------------------|---|-----------|
| HS9505P4DPS | Tilt with 5-port relief manifold, steel | \$ 567.00 |
| RVPP-10-N-S-0-50 | Relief valve with anticav protection | \$ 180.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| SP08-57C-0-N-0 | 4-way, 3-position solenoid valve (All ports blocked in neutral) | \$ 221.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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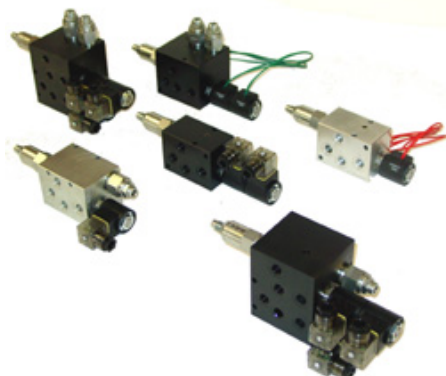
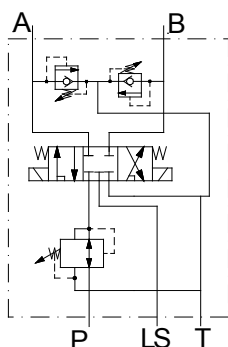
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EXCAVATOR VALVING – HYSPECS

HS9506 - LOAD SENSE TILT ONLY WITH 5-PORT RELIEF



- Designed to control a tilt bucket with a double acting cylinder with in-built load sensing.

| MODEL | DESCRIPTION | MAX. PRESS. IN <i>bar</i> | VOLTAGE <i>DC</i> | LIST |
|------------------|---|---------------------------------|----------------------|------------|
| HS9506P4DPRS**DL | Tilt valve, steel, flying leads, in-built 5-port x-line protection, load sense | 345 | 12 or 24 | \$ 1415.00 |
| HS9506P4DPRS**DG | Tilt valve, steel, DIN plug with LED, in-built 5-port x-line protection, load sense | 345 | 12 or 24 | \$ 1499.00 |

** Denotes coil voltage

- Valve includes steel manifold block, 1 x 5-way 3-position solenoid cartridge valve and coils, 2 x relief valves with anti-cav, 1 x pressure reducer/reliever cartridge
- 5 ports, A, B, P, LS (1/4" BSPP) and T (3/8" BSPP)
- Valve dimensions, 213mm x 75mm x 154mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|------------------|---|-----------|
| HS9506P4EPRS | Tilt with 5-port relief manifold, steel | \$ 485.00 |
| RVPP-10-N-S-0-50 | Relief valve with anticav protection | \$ 180.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| SV10-57C-0-N-0 | 5-way, 3-position solenoid valve (All ports blocked in neutral) | \$ 257.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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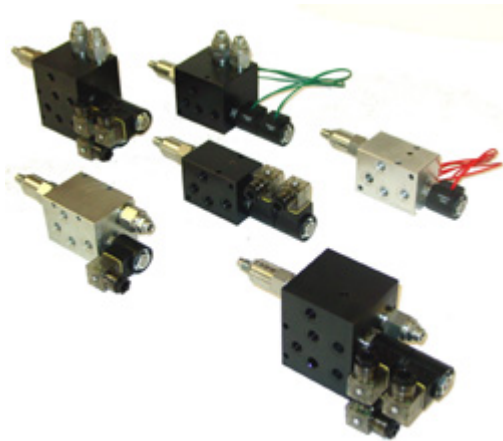
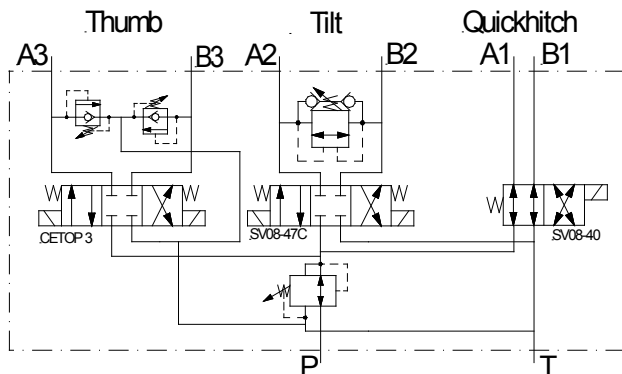
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EXCAVATOR VALVING – HYSPECS

HS9507 - QUICKHITCH, TILT & THUMB VALVE



- Designed to control a Quickhitch, Tilt Bucket with single acting or equal area ram/s and a Thumb.

| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|---------------|--|-----------------------|---------------|------------|
| HS9507FPS**DL | Quickhitch, tilt & thumb valve, steel, flying leads, in-built 4-port and 5-port x-line protection | 345 | 12 or 24 | \$ 2850.00 |
| HS9507FPS**DG | Quickhitch, tilt & thumb valve, steel, DIN plug with LED, in-built 4-port and 5-port x-line protection | 345 | 12 or 24 | \$ 2976.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x 4-way 3-position solenoid cartridge valve and coils, 1 x Cetop 3 valve, 1 x 4-way 2-position solenoid cartridge and coil, 1 x bi-directional relief valve, 2 x relief valves with anti-cav, and 1 x pressure reducer/reliever.
- 8 ports, P, A3, B3 – 3/8" BSPP, A1, B1, A2, B2 – 1/4" BSPP, T – 1/2" BSPP
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|------------------|--|------------|
| HS9507FPS | Quickhitch, tilt and thumb manifold, steel | \$ 1120.00 |
| RVBD-08-N-S-0-50 | Bi-directional relief valve | \$ 175.00 |
| RVPP-10-N-S-0-50 | Relief valve with anticav protection | \$ 180.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| SV08-40-0-N-0 | 4-way, 2-position solenoid valve | \$ 153.00 |
| SV08-47C-0-N-0 | 4-way, 3-position solenoid valve (All ports blocked in neutral) | \$ 221.00 |
| 02-109025 | Cetop 3 valve, 4-way, 3-position solenoid valve (All ports blocked in neutral) | \$ 378.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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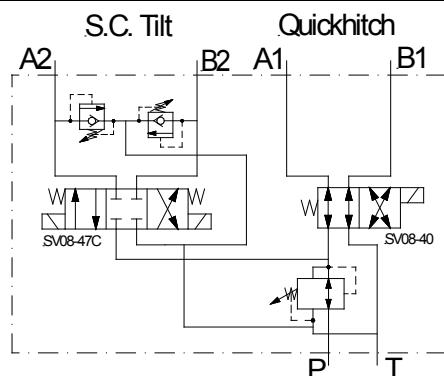
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EXCAVATOR VALVING – HYSPECS

HS9508 - QUICKHITCH & TILT WITH 5-PORT RELIEF



- Designed to control a Quickhitch and Tilt Bucket with a double acting ram/s.

| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|-----------------|--|-----------------------|---------------|------------|
| HS9508P4EPS**DL | Quickhitch and tilt valve, steel, flying leads, in-built 5-port x-line protection | 345 | 12 or 24 | \$ 1890.00 |
| HS9508P4EPS**DG | Quickhitch and tilt valve, steel, DIN plug with LED, in-built 5-port x-line protection | 345 | 12 or 24 | \$ 2016.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x 4-way 3-position solenoid cartridge and coils, 1 x 4-way 2-position solenoid cartridge and coil, 2 x relief valves with anti-cav, and 1 x pressure reducer/reliever.
- 1 x P & T, 2 x A & B, 1/4" BSPP
- Valve dimensions, 248mm x 100mm x 137mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|------------------|---|-----------|
| HS9508P4EPS | Quickhitch and tilt with 5-port relief manifold, steel | \$ 767.00 |
| RVPP-10-N-S-0-50 | Relief valve with anticav protection | \$ 180.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| SV08-40-0-N-0 | 4-way, 2-position solenoid valve | \$ 153.00 |
| SV08-47C-0-N-0 | 4-way, 3-position solenoid valve (All ports blocked in neutral) | \$ 221.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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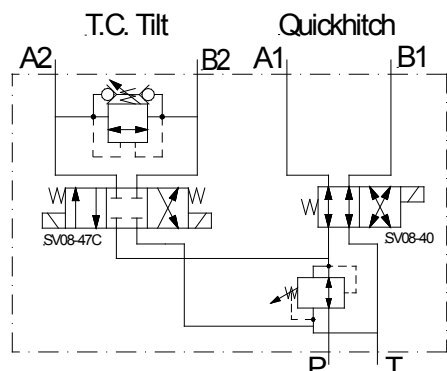
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EXCAVATOR VALVING – HYSPECS

HS9509 - QUICKHITCH & TILT



- Designed to control a Quickhitch and Tilt Bucket with twin single acting or equal area ram/s.

| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|-----------------|--|--------------------------|---------------|------------|
| HS9509P4DPS**DL | Quickhitch and tilt valve, steel, flying leads, in-built 4-port x-line protection | 345 | 12 or 24 | \$ 1620.00 |
| HS9509P4DPS**DG | Quickhitch and tilt valve, steel, DIN plug with LED, in-built 4-port x-line protection | 345 | 12 or 24 | \$ 1746.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x 4-way 3-position solenoid cartridge and coils, 1 x 4-way 2-position solenoid cartridge and coil, 1 x bi-directional relief valve and 1 x pressure reducer/reliever.
- 1 x P & T, 2 x A & B, 1/4" BSPP
- Valve dimensions, 248mm x 100mm x 105mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|------------------|---|-----------|
| HS9509P4DPS | Quickhitch and tilt with 5-port relief manifold, steel | \$ 658.00 |
| RVBD-08-N-S-0-50 | Bi-directional relief valve | \$ 175.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| SV08-40-0-N-0 | 4-way, 2-position solenoid valve | \$ 153.00 |
| SV08-47C-0-N-0 | 4-way, 3-position solenoid valve (All ports blocked in neutral) | \$ 221.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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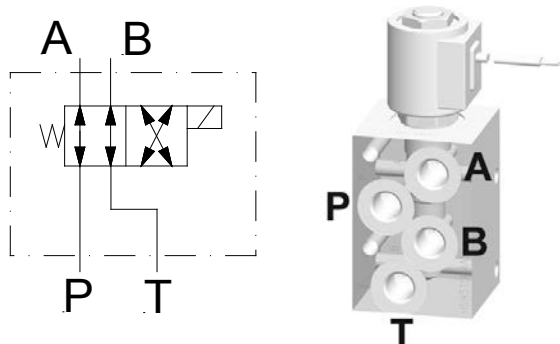
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EXCAVATOR VALVING – HYSPECS

HS9510 - LOW PRESSURE QUICKHITCH



- Designed to control a low pressure Quickhitch, all ports on one face.

| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|----------------|---|--------------------------|---------------|-----------|
| HS9510P4AS**DL | Quickhitch, 2 position solenoid valve with all ports on one face, flying leads | 207 | 12 or 24 | \$ 420.00 |
| HS9510P4AS**DG | Quickhitch, 2 position solenoid valve with all ports on one face, DIN plug with LED | 207 | 12 or 24 | \$ 462.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x 4-way 2-position solenoid cartridge and coil
- 1 x P & T, 1 x A & B – all 1/4" BSPP

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|---------------|-----------------------------------|-----------|
| HS9510P4AS | Quickhitch steel manifold | \$ 221.00 |
| SV08-40-0-N-0 | 4-way, 2-position solenoid valve | \$ 153.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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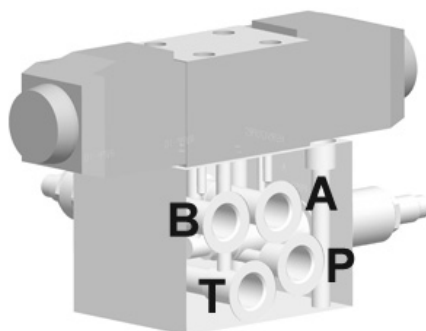
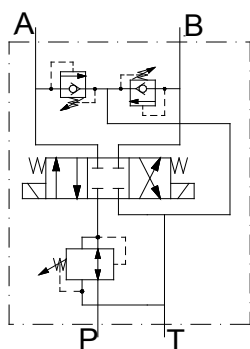
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EXCAVATOR VALVING – HYSPECS

HS9512 - THUMB CONTROL



- Designed to control a thumb via a D/A cylinder.

| MODEL | DESCRIPTION | MAX. PRESS. IN <i>bar</i> | VOLTAGE <i>DC</i> | LIST |
|--------------|--|---------------------------------|----------------------|-----------|
| HS9512CPRS** | Thumb control of a single D/A cylinder, steel manifold, 5-port x-line protection | 345 | 12 or 24 | \$1756.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x Cetop 3 valve, 2 x relief valves with anti-cav and 1 x pressure reducer/reliever.
- 1 x P & T, 1 x A & B – all 3/8" BSPP
- Electro-proportional directional valve option is available – *Consult Hyspecs*

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|------------------|--|-----------|
| HS9512CPRS | Thumb manifold, steel | \$ 767.00 |
| RVPP-10-N-S-0-50 | Relief valve with anticav protection | \$ 180.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| 02-109025 | Cetop 3 valve, 4-way, 3-position solenoid valve (All ports blocked in neutral) | \$ 378.00 |

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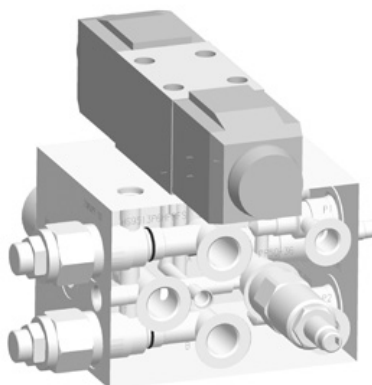
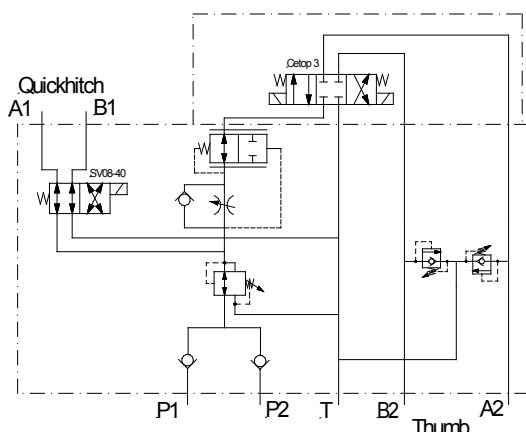
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EXCAVATOR VALVING – HYSPECS

HS9513 - TWO INLETS, QUICKHITCH & THUMB VALVE



- Designed to control a Quickhitch and Thumb (single D/A ram).

| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|-----------------|--|-----------------------|---------------|------------|
| HS9513HPRFS**DL | Two inlets, Quickhitch & thumb valve, checks, pressure reducer, 2 & 3 position solenoid valves (cetop3 for thumb), speed control & 5-port cross line relief valve on the thumb, steel, flying leads | 345 | 12 or 24 | \$ 2785.00 |
| HS9513HPRFS**DG | Two inlets, Quickhitch & thumb valve, checks, pressure reducer, 2 & 3 position solenoid valves (cetop3 for thumb), speed control & 5-port cross line relief valve on the thumb, steel, DIN plug with LED | 345 | 12 or 24 | \$ 2827.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x Cetop 3 valve, 1 x 4-way 2-position solenoid cartridge and coil, 2 x relief valves with anti-cav, 2 x check valves, 1 x flow control and 1 x pressure reducer/reliever.
- 7 ports, P1, P2, A, B1 – 1/4"BSPP, T, A2, B2 – 3/8" BSPP
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|------------------|--|------------|
| HS9513HPRFS | Quickhitch, tilt and thumb manifold, steel | \$ 1201.00 |
| RVPP-10-N-S-0-50 | Relief valve with anticav protection | \$ 180.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| SV08-40-0-N-0 | 4-way, 2-position solenoid valve | \$ 153.00 |
| FR50-28 | Flow control | \$ 212.00 |
| CVFP-08 | High pressure check valve | \$ 92.00 |
| 02-109025 | Cetop 3 valve, 4-way, 3-position solenoid valve (All ports blocked in neutral) | \$ 378.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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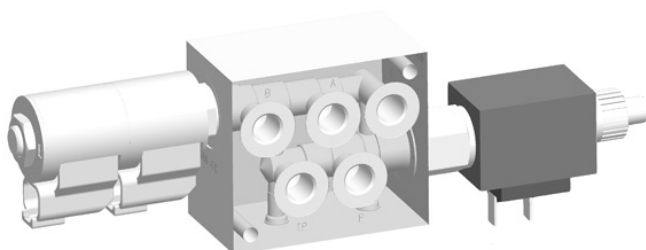
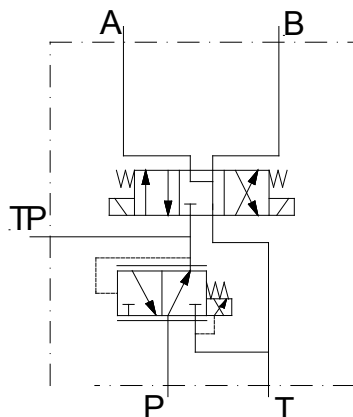
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EXCAVATOR VALVING – HYSPECS

HS9514 - PROPORTIONAL PILOT CONTROL OF MAIN SPOOL



- Designed to control the main spool of an excavator, proportionally.

| MODEL | DESCRIPTION | MAX. PRESS. IN <i>bar</i> | VOLTAGE <i>DC</i> | LIST |
|----------------|--|---------------------------------|----------------------|------------|
| HS9514P4BP**DG | Proportional pressure reducing/relieving, 3-position solenoid valve, DIN plug with LED | 280 | 12 or 24 | \$ 1226.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x 4-way 3-position solenoid cartridge and coils, 1 x proportional pressure reducer/reliever with coil.
- 4 ports, P,T, A & B, all 1/4" BSPP

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|------------------|---|-----------|
| HS9514P4BP | Proportional pilot manifold, aluminium | \$ 228.00 |
| EPRS-08-N-05-0-G | Proportional pressure reducer/reliever (all ports blocked in neutral) | \$ 500.00 |
| SV08-47D-0-N-0 | 4-way, 3-position solenoid valve | \$ 221.00 |
| 6356012 | 12 VDC coil, 10 size, DIN plug | \$ 75.00 |
| 6356024 | 24 VDC coil, 10 size, DIN plug | \$ 75.00 |
| 60186-12DG | 12 VDC coil, 8 size, DIN plug | \$ 70.00 |
| 60186-24DG | 24 VDC coil, 8 size, DIN plug | \$ 70.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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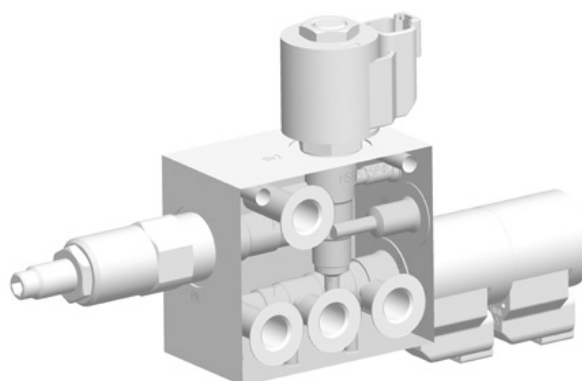
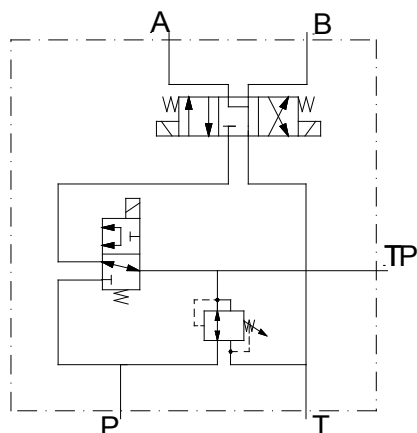
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EXCAVATOR VALVING – HYSPECS

HS9515 - TWO STAGE PILOT CONTROL OF MAIN SPOOL



| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|----------------|---|--------------------------|---------------|------------|
| HS9515P4CP**DL | Pressure reducer, 3 position solenoid valve and 2 position 3 way solenoid selector, flying leads | 280 | 12 or 24 | \$ 938.00 |
| HS9515P4CP**DG | Pressure reducer, 3 position solenoid valve and 2 position 3 way solenoid selector, DIN plug with LED | 280 | 12 or 24 | \$ 1064.00 |

** Denotes coil voltage

- Valve includes aluminium manifold, 1 x 3-way 2-position solenoid cartridge with coils and 1 x pressure reducer/reliever.
- 5 ports, P, T, A, B & TP, all 1/4" BSPP
- Valve dimensions, 299mm x 122mm x 50mm (L x W x H)

SPARE COMPONENTS [Click on individual cartridges for more info](#)

LIST

| | | |
|-----------------|-----------------------------------|-----------|
| HS9515P4CP | Two stage pilot control manifold | \$ 295.00 |
| PR10-32A-0-N-04 | Pressure reducer/reliever | \$ 152.00 |
| SV08-47D-0-N-0 | 4-way, 3-position solenoid valve | \$ 221.00 |
| SV08-31-0-N-0 | 3-way, 2-position solenoid valve | \$132.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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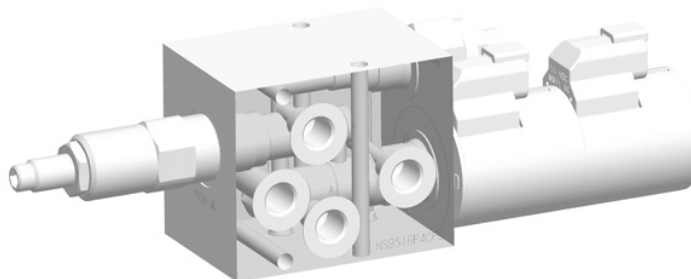
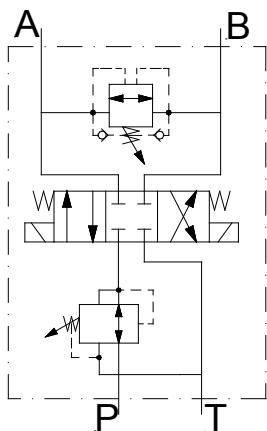
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EXCAVATOR VALVING – HYSPECS

HS9516 - TILT CONTROL, HIGH FLOW



| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|-----------------|---|--------------------------|---------------|------------|
| HS9516P4CPS**DL | Pressure reducer, 3 position solenoid valve, cross line relief, flying leads | 345 | 12 or 24 | \$ 1145.00 |
| HS9516P4CPS**DG | Pressure reducer, 3 position solenoid valve, cross line relief, DIN plug with LED | 345 | 12 or 24 | \$ 1229.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x 4-way 3-position solenoid cartridge and coil, 1 x bi-directional relief valve and 1 x pressure reducer/reliever.
- 4 ports, P, T, A & B, all 1/4" BSPP
- Valve dimensions, 254mm x 75mm x 62.5mm (L x W x H)

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|------------------|---|-----------|
| HS9516P4CPS | Tilt control, high flow manifold, steel | \$ 380.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| SV10-47C-0-N-0 | 4-way, 3-position solenoid valve | \$ 277.00 |
| RVBD-08-N-S-0-50 | B-directional relief valve | \$ 175.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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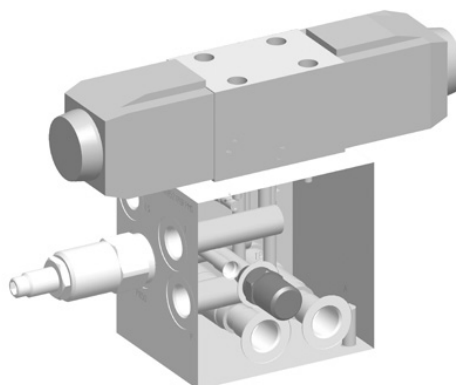
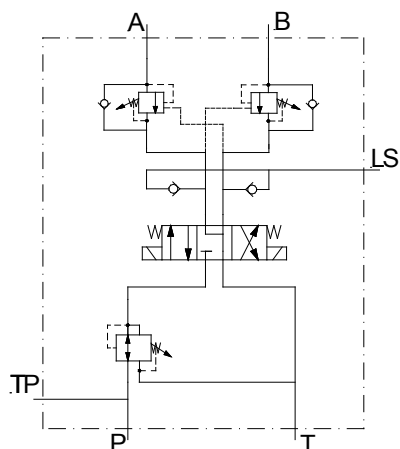
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EXCAVATOR VALVING – HYSPECS

HS9521 - LOAD SENSE TILT CONTROL WITH DUAL COUNTERBALANCE



| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|------------------|---|-----------------------|---------------|------------|
| HS9521P6FPMS**DG | Pressure reducer, Cetop 3, load sense checks, double counterbalance valves, DIN plug with LED | 345 | 12 or 24 | \$ 1568.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x Cetop 3 valve, 2 x counterbalance valves, 2 x check valves and 1 x pressure reducer/reliever.
- 6 ports, P,T A & B – 3/8" BSPP; LS & TP – 1/4" BSPP
- Valve dimensions, 179mm x 123mm x 165mm (L x W x H)

SPARE COMPONENTS [Click on individual cartridges for more info](#)

LIST

| | | |
|-----------------|---|-----------|
| HS9521P6FPMS | Load sense tilt control with dual counterbalance manifold, steel | \$ 575.00 |
| CBPA-20M | Counterbalance valve | \$ 210.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| CV04-20 | Load sense check valve | \$ 46.00 |
| SWH-G02-C6 | Cetop 3 valve, 3-position solenoid valve (P blocked, A & B to T in neutral) | \$ 260.00 |
| NWH-02-D12 | 12 VDC coil, DIN plug | \$ 77.00 |
| 6306024 | 24 VDC coil, DIN plug | \$ 77.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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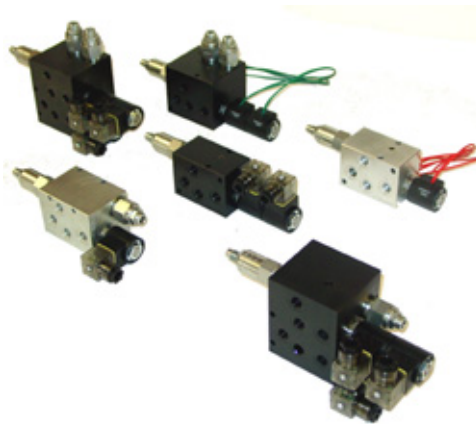
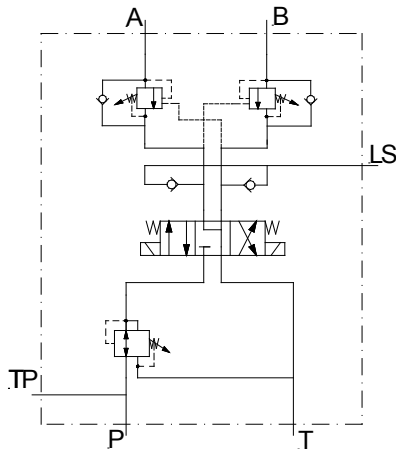
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EXCAVATOR VALVING – HYSPECS

HS9522 - LOAD SENSE TILT CONTROL WITH DUAL COUNTERBALANCE, HIGH FLOW



| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|------------------|---|--------------------------|---------------|------------|
| HS9522P6FPMS**DG | Pressure reducer, Cetop 5, load sense checks, double counterbalance valves, DIN plug with LED | 345 | 12 or 24 | \$ 1808.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x Cetop 5 valve, 2 x counterbalance valves, 2 x check valves and 1 x pressure reducer/reliever.
- 6 ports, P, A & B – 3/8" BSPP; T – 1/2" BSPP; LS & TP – 1/4" BSPP
- Valve dimensions, 179mm x 133mm x 170mm (L x W x H)

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|-----------------|---|-----------|
| HS9522P6FPMS | Load sense tilt control with dual counterbalance high flow manifold, steel | \$ 635.00 |
| CBPA-20M | Counterbalance valve | \$ 210.00 |
| PR50-36A-0-P-50 | Pressure reducer/reliever | \$ 221.00 |
| CV04-20 | Load sense check valve | \$ 46.00 |
| SWH-G03-C6 | Cetop 5 valve, 3-position solenoid valve (P blocked, A & B to T in neutral) | \$ 440.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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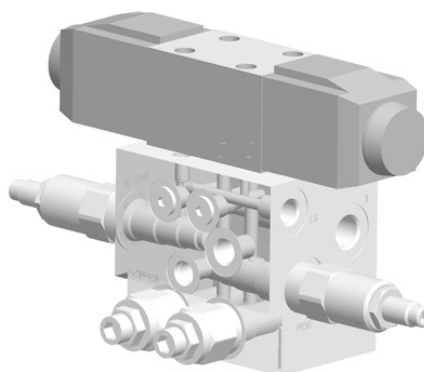
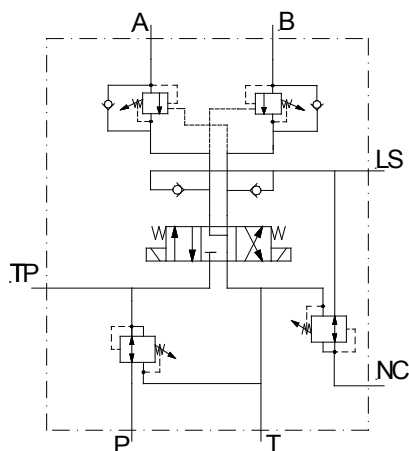
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EXCAVATOR VALVING – HYSPECS

HS9523 - LOAD SENSE & NEGATIVE CONTROLLED TILT WITH DUAL C/B



| MODEL | DESCRIPTION | MAX. PRESS. IN bar | VOLTAGE DC | LIST |
|------------------|--|--------------------------|---------------|------------|
| HS9523P6GPMS**DG | Pressure reducers, Cetop 3, load sense checks, double counterbalance valves, DIN plug with LED | 345 | 12 or 24 | \$ 1845.00 |

** Denotes coil voltage

- Valve includes steel manifold, 1 x Cetop 3 valve, 2 x counterbalance valves, 2 x check valves, 1 x high pressure reducer/reliever and 1 x low pressure reducer/reliever.
- 7 ports, P, T, A & B – 3/8" BSPP; LS, NC & TP – 1/4" BSPP
- Valve dimensions, 258mm x 108mm x 160mm (L x W x H)

SPARE COMPONENTS *Click on individual cartridges for more info*

LIST

| | | |
|-----------------|---|-----------|
| HS9523P6GPMS | L/S and negative tilt control with dual counterbalance manifold, steel | \$ 645.00 |
| CBPA-20M | Counterbalance valve | \$ 210.00 |
| PR50-36A-0-P-50 | High pressure reducer/reliever | \$ 221.00 |
| PR58-38H-0-P-05 | Low pressure reducer/reliever | \$ 207.00 |
| CV04-20 | Load sense check valve | \$ 46.00 |
| SWH-G02-C6 | Cetop 3 valve, 3-position solenoid valve (P blocked, A & B to T in neutral) | \$ 260.00 |
| 6306012 | 12 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6306024 | 24 VDC coil, 8 size, DIN plug | \$ 69.00 |
| 6302012 | 12 VDC coil, 8 size, flying leads | \$ 46.00 |
| 6302024 | 24 VDC coil, 8 size, flying leads | \$ 46.00 |
| ISOL-30 | DIN plug to suit DC coils | \$ 19.00 |

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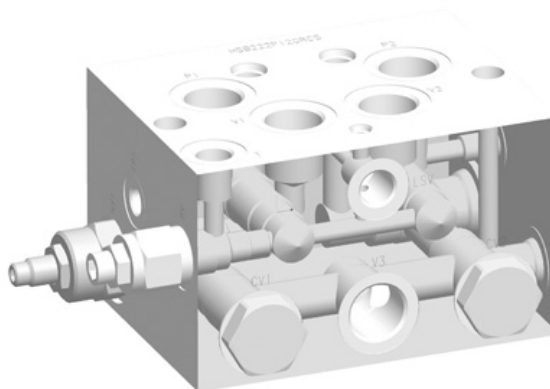
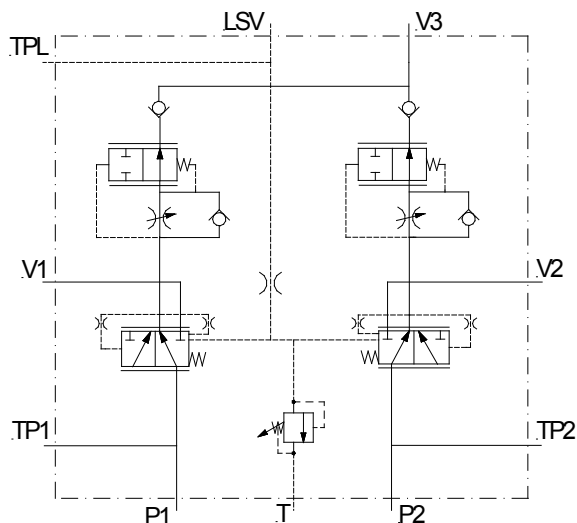
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EXCAVATOR VALVING – HYSPECS

HS8222P12GRCS - DUAL PUMP FLOW SHARING VALVE



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---|----------------|
| FCVL-12 x 2 + EC12-43 x 2 + CV11-12 x 2 + RVPD-08 | 136 x 2 | 350 | Load sense on demand with maximum flow and pressure limiter | 3/4" main ports, 3/8" load sense and tank ports, 1/4" test ports | \$ 2268.00 |

- Manifold dimensions 165 x 126 x 100mm, excluding cartridges

SPARE COMPONENTS [Click on individual cartridges for more info](#)

LIST

| | | |
|---------------|--|------------|
| HS8222P12GRCS | Dual pump slow sharing manifold, steel | \$ 1065.00 |
| FCVL-12 | Flow control | \$ 145.00 |
| EC12-43 | Compensator | \$ 257.00 |
| CV11-12 | Check valve (02-172411) | \$ 147.00 |
| RVPD-08 | Relief valve | \$ 105.00 |

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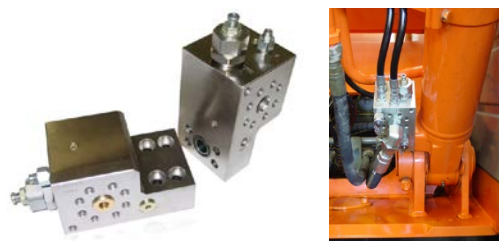
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EXCAVATOR VALVING – HYSPECS

SAFEX™ VALVES



SAFEX™ valves are designed to be mounted directly to the boom and/or the stick (arm) cylinders of hydraulic excavators. With the correct installation and adjustment these valves prevent uncontrolled lowering of the boom/stick cylinders in the event of a hose burst, thereby becoming part of the load holding and lowering system designed to comply with **AS 1418.8 / ISO 8643**.

| MODEL | CARTRIDGES | PORT SIZE | MAX. PRESS. IN bar | MAX. FLOW lpm | LIST |
|----------------|---|-------------------------------------|--------------------|---------------|------------|
| A/HS4541P6CRS | 406AA00014A, 04.11.57-03-99-35, CV04-20 | 3/8" BSPP | 350 | 30 | \$ 785.00 |
| A/HS4542P8CRS | 406AA00022A, 04.11.57-03-99-35, CV04-20 | 1/2" BSPP | 350 | 90 | \$ 845.00 |
| A/HS4543P12CRS | 406AA00025A, 04.11.57-03-99-46, CV04-20 | 3/4" BSPP | 400 | 180 | \$ 908.00 |
| A/HS4840ACRS | 406AA00022A, 04.11.57-03-99-35, CV04-20 | 1/2" SAE, Code 61/62 | 350 | 90 | \$ 998.00 |
| A/HS4841BCRS | 406AA00022A, 04.11.57-03-99-35, CV04-20 | 3/4" SAE low flow, Code 61/62 | 350 | 90 | \$ 1249.00 |
| A/HS4844DDRS | 406AA00025A x 2, 04.11.57-03-99-46, CV04-20 | 1 1/4" SAE, Code 62 | 400 | 350 | \$ 1898.00 |
| A/HS4845BDRS | 406AA00025A x 2, 04.11.57-03-99-46, CV04-20 | 3/4" SAE, Code 61/62 | 400 | 350 | \$ 1765.00 |
| A/HS4846CDRS | 406AA00025A x 2, 04.11.57-03-99-46, CV04-20 | 1" SAE, Code 62 | 400 | 350 | \$ 1869.00 |
| A/HS4847BCRS | 406AA00025A, 04.11.57-03-99-46, CV04-20 | 3/4" SAE, Code 61/62 (Volvo loader) | 400 | 180 | \$ 1295.00 |
| A/HS4848CDRS | 406AA00025A x 2, 04.11.57-03-99-46, CV04-20 | 1" SAE, Code 62 (Volvo loader) | 400 | 350 | \$ 1979.00 |
| A/HS4849BCRS | 406AA00025A, 04.11.57-03-99-46, CV04-20 | 3/4" SAE, Code 61/62, long nose | 400 | 180 | \$ 1345.00 |
| A/HS4850CCRS | 406AA00025A, 04.11.57-03-99-46, CV04-20 | 1" SAE, Code 61/62, long nose | 400 | 180 | \$ 1618.00 |
| A/HS4851BCRS | 406AA00025A, 04.11.57-03-99-46, CV04-20 | 3/4" SAE, Code 61/62 | 400 | 180 | \$ 1295.00 |
| A/HS4853CCRS | 406AA00025A, 04.11.57-03-99-46, CV04-20 | 1" SAE, Code 61/62 | 400 | 180 | \$ 1459.00 |
| A/HS4854EDRS | 406AA00025A x 2, 04.11.57-03-99-46, CV04-20 | 1.5" SAE, Code 61/62 | 400 | 360 | \$ 1933.00 |
| A/HS4855FDRS | 406AA00025A x 2, 04.11.57-03-99-46, CV04-20 | 2" SAE, Code 61/62 | 400 | 360 | \$ 2184.00 |

Features and Benefits

- Designed to meet the Australian Safety Regulations for Excavators and complies with ISO 8643.
- Compact design with dual code SAE 61 and 62 ports.
- Relief valve with screen is included for cylinder protection (full flow).
- Duplicated valve (V), pilot (PIL) ports allow the valves to be fitted to either side. End pilot (PIL) and drain (DR) ports make it easy to connect.

(continued over page)

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- E/TP port on the valves can be used for initial bleed off, a test point to set the relief, manual lowering, and equalizing two boom cylinders.
- Assembled from locally sourced components for ease of service including top quality standard cartridges which can be purchased in any major city around the world.
- Manufactured by HYSPECS and HYTECH.
- Steel manifolds electro-plated zinc (Nickel plating is an option).
- Tamper proof capable.

IMPORTANT: It is the owner's responsibility to ensure that these valves are installed and set correctly in order to comply with the safety standards. Incorrect installation and/or adjustment could result in severe injury, disability or death!

NB. Contact Hyspecs for Safex Valve technical data sheets and setup procedure.

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EXCAVATOR VALVING ACCESSORIES- DAVID BROWN



MULTI FUNCTION ERGONOMIC HANDLES

- Quickhitch, tilt and thumb valves require switching gear to allow the operator control. David Brown remote handles provide this control, with their various switching and handle options.
- M10 x 1.5 mounting adaptor.

| MODEL | DESCRIPTION | SUGGESTED USE | RATING | LIST |
|------------------|--|--------------------------|---------------|-----------|
| G9466012321 | David Brown handle, type A | Tilt | 3A at 30VDC | \$ 69.00 |
| G9466012331 | David Brown handle, type x, push button on/off | Quick hitch | 3A at 30VDC | \$ 150.00 |
| G9466012351 | David Brown handle, type y, 3-position rocker, spring centre | Tilt & thumb | 3A at 30VDC | \$ 215.00 |
| MFEERXXRXX-X1R1S | David Brown MFE handle, 3-position rocker, spring centre and 2 push buttons on/off, 15° tilt | Quick hitch tilt & thumb | 6A at 250 VAC | \$ 365.00 |
| MFEERXXXXX-X1R1S | David Brown MFE handle, 3-position rocker, spring centre and 1 push button on/off, 15° tilt | Quick hitch tilt & thumb | 6A at 250 VAC | \$ 328.00 |
| MFEXXXXXXX-X0R1 | David Brown MFE handle, no buttons | Quick hitch tilt & thumb | 6A at 250 VAC | \$ 158.00 |

- Quenching diodes must be used on rocker switches for DC operation.

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- H5 Two Station Series
- H5 Two Station Load Sense
- H6 Three Station Parallel
- H7 Three Station Series
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- H30 Five Station Series
- H30 Five Station Load Sense

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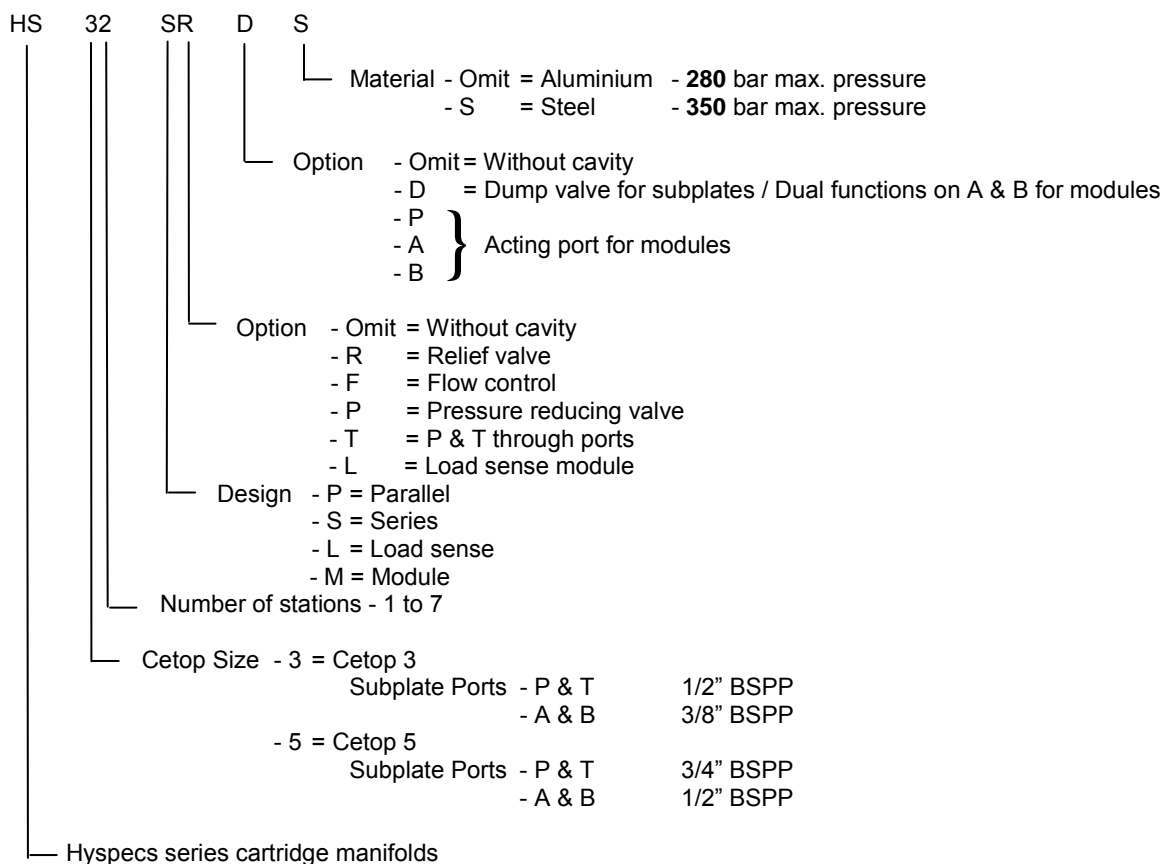
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CETOP SUBPLATES & MODULES - HOW TO ORDER

- Hyspecs has an extensive range of standard CETOP 3 and 5 sub-plates and control modules. These are designed to suit the majority of applications. Hyspecs offers series or parallel configuration for up to 7 stations. Sub-plates are machined for two pressure ranges: - up to 280 and 350 bar. Cetop 7 and 8 subplates are also available but not listed in this catalogue.



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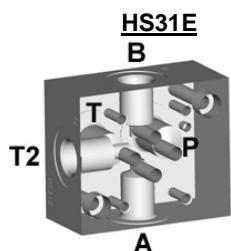
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CETOP 3 SUBPLATES

SINGLE STATION

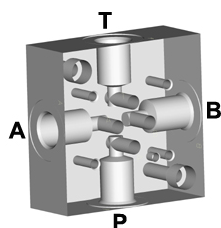
Click on individual cartridges for more info



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|--------------|---|---------------|----------------|
| N/A | 280 | P & T on bottom, A, B & T2 on three sides | 3/8" | \$ 184.00 |

Manifold Dimensions: 75 x 64 x 37 mm

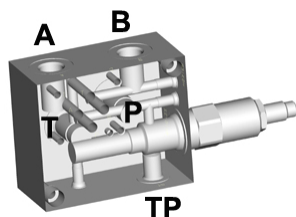
HS31SA & HS31SS



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|--------------|--------------------|---------------|----------------|
| N/A | 280 & 350 | One port each side | 3/8" | \$ 184.00 |

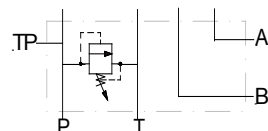
Manifold Dimensions: 75 x 75 x 30 mm

HS31ER

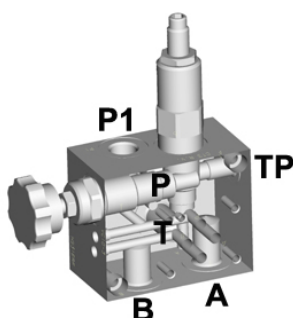


| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|--------------|--|---------------|----------------|
| RV10-22 | 280 | P & T on bottom, A & B on one side, TP other side, relief on P | 1/4"-3/8" | \$ 374.00 |

Manifold Dimensions: 100 x 85 x 50 mm. HS31ER manifold only \$ 241.00

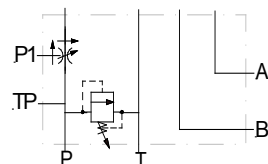


HS31ERF



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|----------------------|----------------|--------------|---|---------------|----------------|
| RV10-22 +FR10-39E | 57 | 280 | P & T on bottom, A, B on one side. Compensated priority flow control valve (0-38LPM reg.) on P can be used as bypass (P1) or plugged for variable pump. TP & relief on P. | 1/4"-3/8" | \$ 638.00 |

Manifold Dimensions: 90 x 75 x 50 mm. HS31ERF manifold only \$ 293.00



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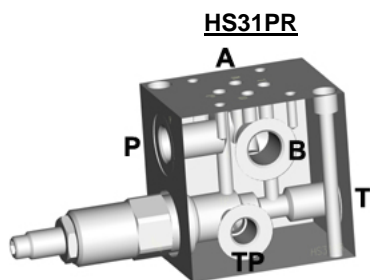
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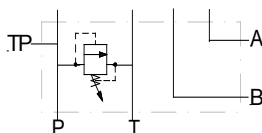
CETOP 3 SUBPLATES

SINGLE STATION

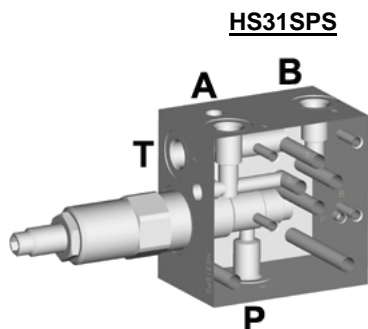
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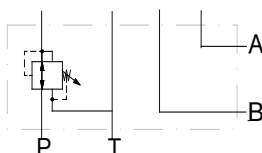
| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|--|-----------|---|------------|----------------|
| RV10-22 | 280 | P, A & T on each side, B and TP on one side. Relief on P. | 1/4"-3/8" | \$ 351.00 |
| Manifold Dimensions: 75 x 60 x 75 mm. HS31PR manifold only \$ 218.00 | | | | |



HS31SFE and HS31SFR - refer to Auto-Pilot Steering Valves, page B10.



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|-------------|-----------|--|------------|----------------|
| PR50-36 | 56 | 350 | P & T on each side, A & B on one side. Pressure reducing relieving valve on P. Steel subplate. | 3/8" | \$ 478.00 |
| Manifold Dimensions: 75 x 75 x 50 mm. HS31SPS manifold only \$ 257.00 | | | | | |



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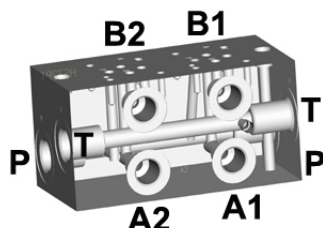
CETOP 3 SUBPLATES

TWO STATION - PARALLEL

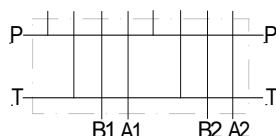
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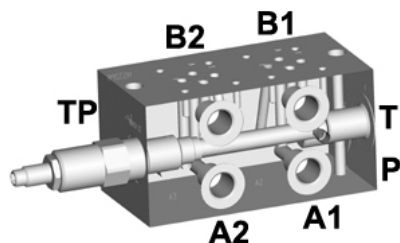
HS32PT



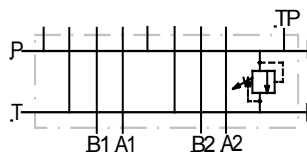
| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|-----------|--|------------|----------------|
| N/A | 280 | P & T (1/2") through two ends. All A & B ports (3/8") on one side. | 3/8"-1/2" | \$ 389.00 |
| Manifold Dimensions: 145 x 75 x 75 mm | | | | |



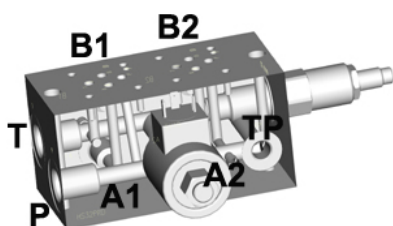
HS32PR



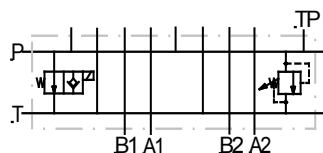
| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|-----------|--|------------|----------------|
| RV10-22 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port on other side. Relief on P. | 1/4"-1/2" | \$ 522.00 |
| Manifold Dimensions: 145 x 75 x 75 mm. HS32PR manifold only \$ 389.00 | | | | |



HS32PRD



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|--|-----------|--|------------|----------------|
| RV10-22 +SV10-21 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port on other side. Relief and N.O. solenoid valve on P. | 1/4"-1/2" | \$ 836.00 |
| Manifold Dimensions: 145 x 75 x 75 mm. HS32PRD manifold only \$ 480.00 | | | | |



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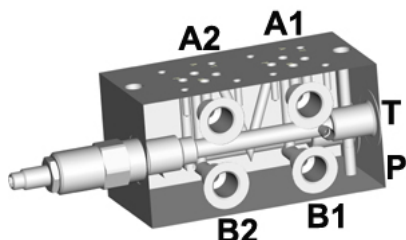
CETOP 3 SUBPLATES

TWO STATION – SERIES

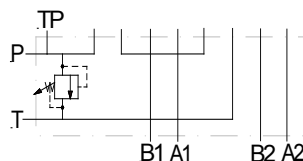
Click on individual cartridges for more info



HS32SR

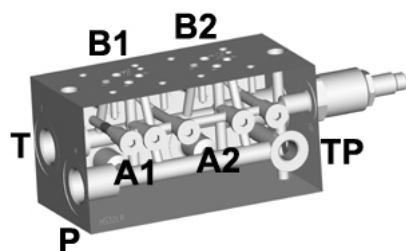


| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|--------------|---|---------------|-------------------|
| RV10-22 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP (1/4") port on other side. Relief on P. | 1/4"-1/2" | \$ 522.00 |
| Manifold Dimensions: 145 x 75 x 75 mm. HS32SR manifold only \$ 389.00 | | | | |

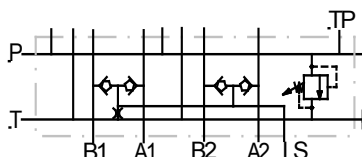


TWO STATION – LOAD SENSE

HS32LR



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|--------------|---|---------------|-------------------|
| RV10-22 + 4 x CV04-20 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Four load sense checks. Relief on P. 0.4 mm bleed orifice. | 1/4"-1/2" | \$ 775.00 |
| Manifold Dimensions: 145 x 75 x 75 mm. HS32LR manifold only \$ 458.00 | | | | |



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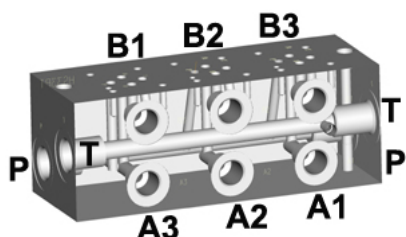
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CETOP 3 SUBPLATES

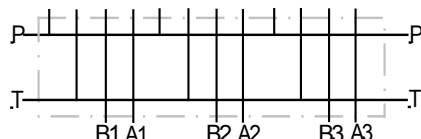
THREE STATION – PARALLEL [Click on individual cartridges for more info](#)



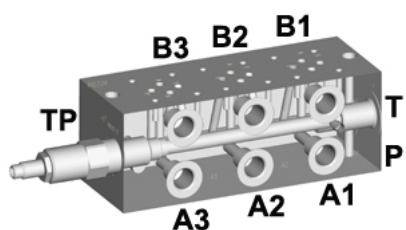
HS33PT



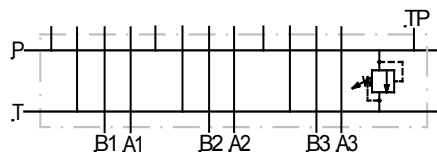
| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|--------------|---|---------------|----------------|
| N/A | 280 | P & T (1/2") through two ends. All A & B ports (3/8") on one side. | 3/8"-1/2" | \$ 481.00 |
| Manifold Dimensions: 200 x 75 x 75 mm | | | | |



HS33PR

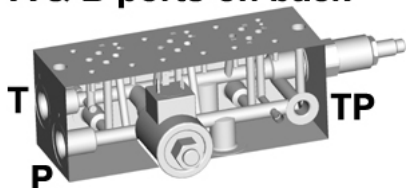


| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|--------------|---|---------------|----------------|
| RV10-22 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-1/2" | \$ 614.00 |
| Manifold Dimensions: 200 x 75 x 75 mm. HS33PR manifold only \$ 481.00 | | | | |

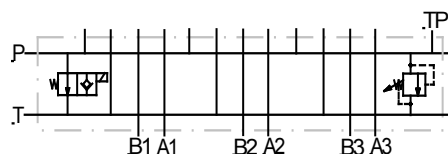


HS33PRD

A & B ports on back



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|--|--------------|---|---------------|----------------|
| RV10-22 + SV10-21 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief and N.O. solenoid valve on P. | 1/4"-1/2" | \$ 928.00 |
| Manifold Dimensions: 200 x 75 x 75 mm. HS33PRD manifold only \$ 572.00 | | | | |



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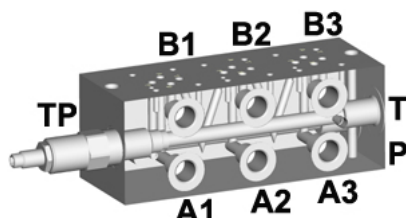
CETOP 3 SUBPLATES

THREE STATION – SERIES

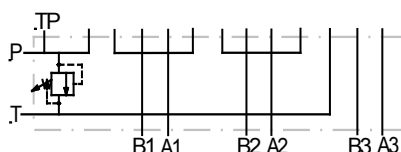
[Click on individual cartridges for more info](#)



HS33SR



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|--------------|---|---------------|-------------------|
| RV10-22 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-1/2" | \$ 614.00 |
| Manifold Dimensions: 200 x 75 x 75 mm. HS33SR manifold only \$ 481.00 | | | | |



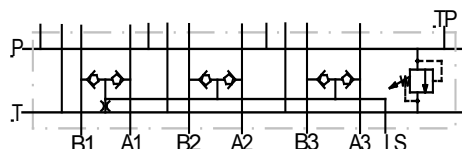
THREE STATION – LOAD SENSE

HS33LR

A & B Ports on back



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|--------------|--|---------------|-------------------|
| RV10-22 + 6 x CV04-20 | 280 | P & T (1/2") on one end. LS port (1/4") on other end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Four load sense checks. Relief on P. 0.4 mm bleed orifice. | 1/4"-1/2" | \$ 1050.00 |
| Manifold Dimensions: 200 x 75 x 75 mm. HS33LR manifold only \$ 641.00 | | | | |



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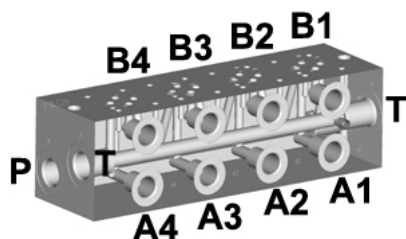
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CETOP 3 SUBPLATES

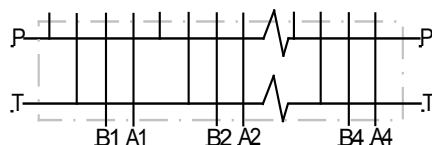
FOUR STATION – PARALLEL *Click on individual cartridges for more info*



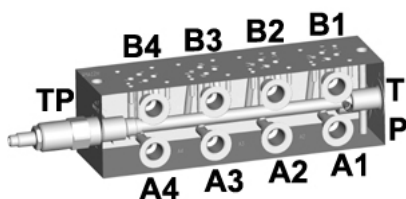
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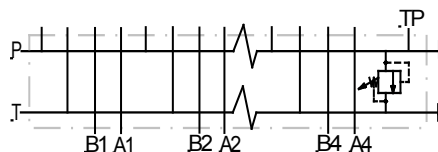
| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|--------------|--|---------------|----------------|
| N/A | 280 | P & T (1/2") through two ends. All A & B ports (3/8") on one side. | 3/8"-1/2" | \$ 629.00 |
| Manifold Dimensions: 255 x 75 x 75 mm | | | | |



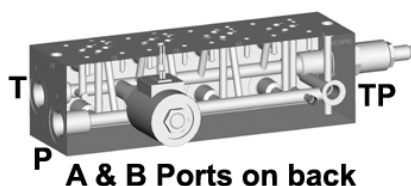
HS34PR



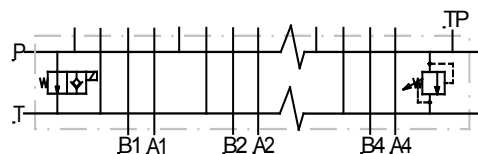
| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|--------------|---|---------------|----------------|
| RV10-22 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-1/2" | \$ 762.00 |
| Manifold Dimensions: 255 x 75 x 75 mm. HS34PR manifold only \$ 629.00 | | | | |



HS34PRD



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|--|--------------|---|---------------|----------------|
| RV10-22 + SV10-21 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief and N.O. solenoid valve on P. | 1/4"-1/2" | \$ 1076.00 |
| Manifold Dimensions: 255 x 75 x 75 mm. HS34PRD manifold only \$ 720.00 | | | | |



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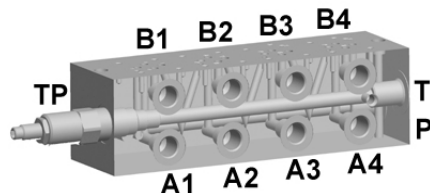
CETOP 3 SUBPLATES

FOUR STATION – SERIES

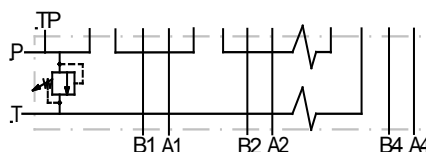
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HS34SR

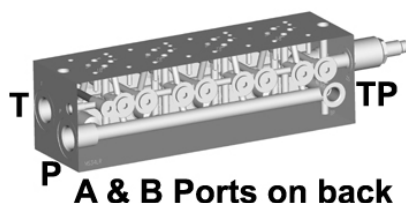


| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|--------------|---|---------------|-------------------|
| RV10-22 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-1/2" | \$ 762.00 |
| Manifold Dimensions: 255 x 75 x 75 mm. HS34SR manifold only \$ 629.00 | | | | |

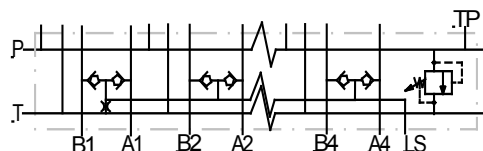


FOUR STATION – LOAD SENSE

HS34LR



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|--------------|--|---------------|-------------------|
| RV10-22 + 8 x CV04-20 | 280 | P & T (1/2") on one end. LS port (1/4") on other end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Four load sense checks. Relief on P. 0.4 mm bleed orifice. | 1/4"-1/2" | \$ 1325.00 |
| Manifold Dimensions: 255 x 75 x 75 mm. HS34LR manifold only \$ 824.00 | | | | |



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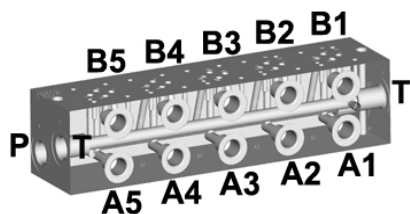
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CETOP 3 SUBPLATES

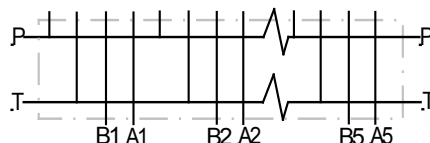
FIVE STATION – PARALLEL *Click on individual cartridges for more info*



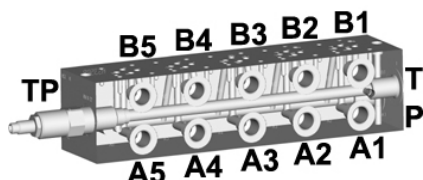
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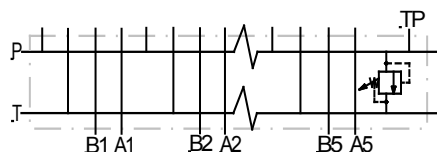
| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|--------------|--|---------------|----------------|
| N/A | 280 | P & T (1/2") through two ends. All A & B ports (3/8") on one side. | 3/8"-1/2" | \$ 756.00 |
| Manifold Dimensions: 310 x 75 x 75 mm | | | | |



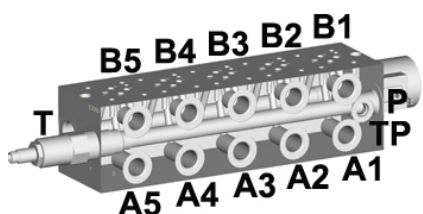
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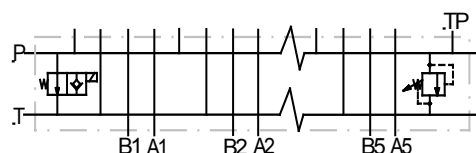
| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|--------------|---|---------------|----------------|
| RV10-22 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-1/2" | \$ 889.00 |
| Manifold Dimensions: 310 x 75 x 75 mm. HS35PR manifold only \$ 756.00 | | | | |



HS35PRD



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|--|--------------|---|---------------|----------------|
| RV10-20 + SV10-21 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief and N.O. solenoid valve on P. | 1/4"-1/2" | \$ 1203.00 |
| Manifold Dimensions: 310 x 75 x 75 mm. HS35PRD manifold only \$ 847.00 | | | | |



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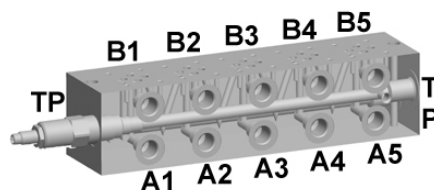
CETOP 3 SUBPLATES

FIVE STATION – SERIES

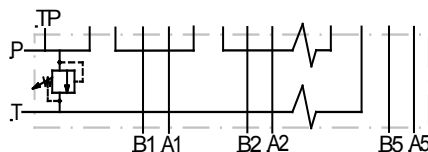
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HS35SR

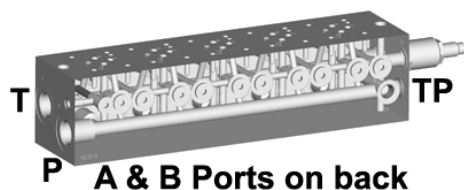


| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|-----------|---|------------|----------------|
| RV10-22 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-1/2" | \$ 889.00 |
| Manifold Dimensions: 310 x 75 x 75 mm. HS35SR manifold only \$ 756.00 | | | | |

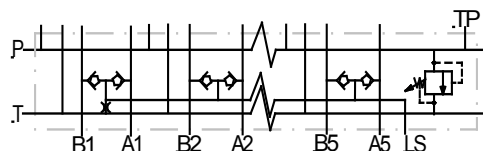


FIVE STATION – LOAD SENSE

HS35LR



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|--|-----------|--|------------|----------------|
| RV10-22 + 10 x CV04-20 | 280 | P & T (1/2") on one end. LS port (1/4") on other end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Four load sense checks. Relief on P. 0.4 mm bleed orifice. | 1/4"-1/2" | \$ 1601.00 |
| Manifold Dimensions: 310 x 75 x 75 mm. HS35LR manifold only \$ 1008.00 | | | | |



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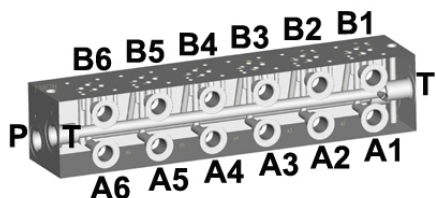
CETOP 3 SUBPLATES

SIX STATION – PARALLEL

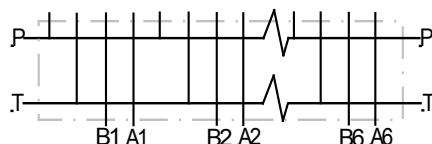
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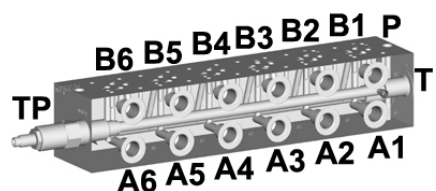
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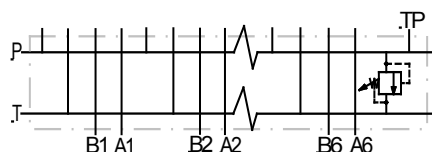
| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|-----------|--|------------|----------------|
| N/A | 280 | P & T (1/2") through two ends. All A & B ports (3/8") on one side. | 3/8"-1/2" | \$ 881.00 |
| Manifold Dimensions: 365 x 75 x 75 mm | | | | |



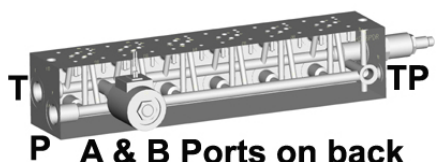
HS36PR



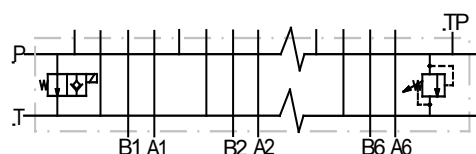
| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|-----------|---|------------|----------------|
| RV10-22 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-1/2" | \$ 1014.00 |
| Manifold Dimensions: 365 x 75 x 75 mm. HS36PR manifold only \$ 881.00 | | | | |



HS36PRD



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|--|-----------|---|------------|----------------|
| RV10-22 + SV10-21 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief and N.O. solenoid valve on P. | 1/4"-1/2" | \$ 1328.00 |
| Manifold Dimensions: 365 x 75 x 75 mm. HS36PRD manifold only \$ 972.00 | | | | |



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CETOP 3 SUBPLATES

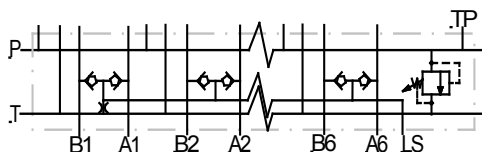


SIX STATION – LOAD SENSE *Click on individual cartridges for more info*

HS36LR

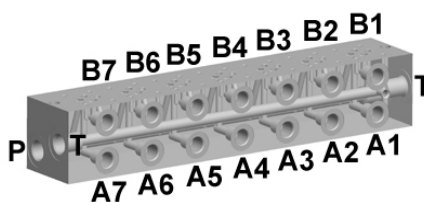


| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|--|--------------|--|---------------|-------------------|
| RV10-22 + 12 x CV04-20 | 280 | P & T (1/2") on one end. LS port (1/4") on other end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Four load sense checks. Relief on P. 0.4 mm bleed orifice. | 1/4"-1/2" | \$ 1852.00 |
| Manifold Dimensions: 365 x 75 x 75 mm. HS35LR manifold only \$ 1167.00 | | | | |

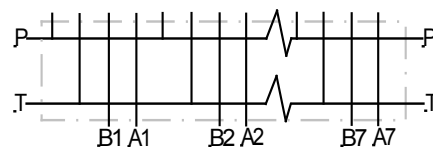


SEVEN STATION – PARALLEL

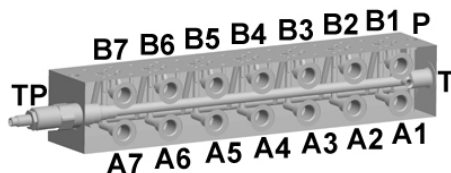
HS37PT



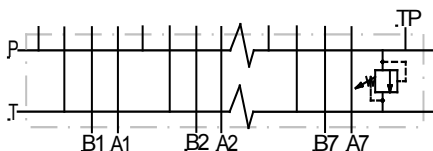
| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|--------------|--|---------------|-------------------|
| N/A | 280 | P & T (1/2") through two ends. All A & B ports (3/8") on one side. | 3/8"-1/2" | \$ 985.00 |
| Manifold Dimensions: 420 x 75 x 75 mm | | | | |



HS37PR



| Cartridge Options | P max bar | Notes | Ports BSPP | Assembly Price |
|---|--------------|--|---------------|-------------------|
| RV10-22 | 280 | P & T (1/2") on one end. All A & B ports (3/8") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-1/2" | \$ 1118.00 |
| Manifold Dimensions: 420 x 75 x 75 mm. HS37PR manifold only \$ 985.00 | | | | |



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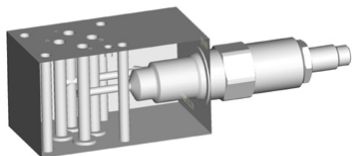
CETOP 3 MODULES

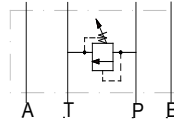
PRESSURE RELIEF

Click on individual cartridges for more info

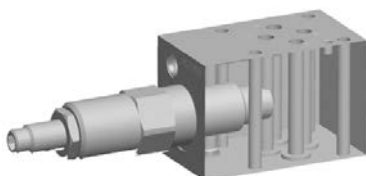


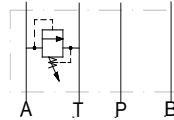
HS31MRP



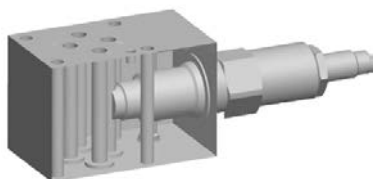
| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|---------------|---|----------------|
| RV10-20 | 40 | 280 | P to T relief |  | \$ 360.00 |
| Manifold Dimensions: 90 x 50 x 50 mm. HS31MRP manifold only \$ 227.00 | | | | | |

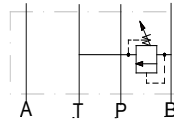
HS31MRA



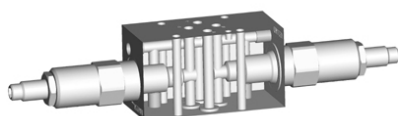
| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|---------------|---|----------------|
| RV10-20 | 40 | 280 | A to T relief |  | \$ 360.00 |
| Manifold Dimensions: 75 x 50 x 50 mm. HS31MRA manifold only \$ 227.00 | | | | | |

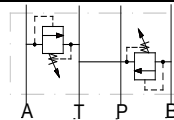
HS31MRB



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|---------------|---|----------------|
| RV10-20 | 40 | 280 | B to T relief |  | \$ 360.00 |
| Manifold Dimensions: 75 x 50 x 50 mm. HS31MRB manifold only \$ 227.00 | | | | | |

HS31MRD



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|-------------------|---|----------------|
| RV08-20 x 2 | 20 | 280 | A & B to T relief |  | \$ 484.00 |
| Manifold Dimensions: 90 x 44 x 50 mm. HS31MRD manifold only \$ 246.00 | | | | | |

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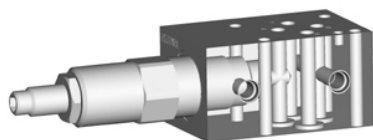
CETOP 3 MODULES

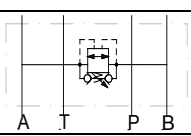
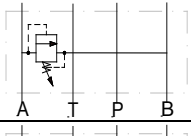
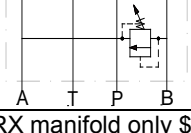
PRESSURE RELIEF

Click on individual cartridges for more info

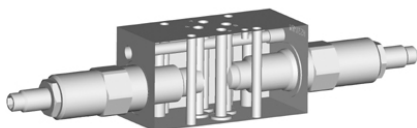


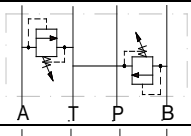
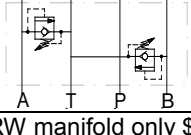
HS31MRX



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|-------------------------|---|----------------|
| RVBD-10 | 75 | 280 | A & B cross line relief |  | \$ 412.00 |
| RV10-20 | 40 | 280 | A to B relief |  | \$ 360.00 |
| RV10-22 | 80 | 280 | B to A relief |  | \$ 360.00 |
| Manifold Dimensions: 75 x 50 x 40 mm. HS31MRX manifold only \$ 227.00 | | | | | |

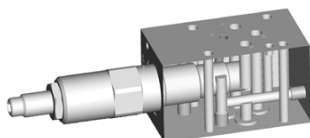
HS31MRW

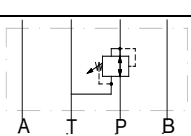
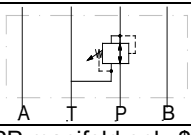


| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|---|---|----------------|
| 2 x RV10-20 | 40 | 280 | A & B to T relief |  | \$ 523.00 |
| 2 x RVPP-10 | 80 | 280 | A and B to T relief and over-run check T to A & B |  | \$ 617.00 |
| Manifold Dimensions: 96 x 44 x 50 mm. HS31MRW manifold only \$ 257.00 | | | | | |

PRESSURE REDUCING / RELIEVING

HS31MPP



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|---|---|----------------|
| PR10-32 | 30 | 280 | Pressure reducing on P and relieving to T |  | \$ 484.00 |
| PR10-36 | 56 | 280 | Pressure reducing on P and relieving to T |  | \$ 547.00 |
| Manifold Dimensions: 80 x 45 x 45 mm. HS31MPP manifold only \$ 332.00 | | | | | |

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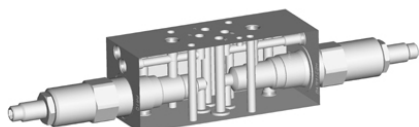
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CETOP 3 MODULES

PRESSURE REDUCING / RELIEVING *Click on individual cartridges for more info*



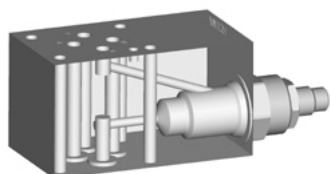
HS31MPAB



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|---|---------|----------------|
| 2 x PR10-32 | 30 | 280 | Pressure reducing on A & B and relieving to T | | \$ 756.00 |
| 2 x PR10-36 | 56 | 280 | Pressure reducing on A & B and relieving to T | | \$ 882.00 |
| Manifold Dimensions: 125 x 50 x 50 mm. HS31MPAB manifold only \$ 452.00 | | | | | |

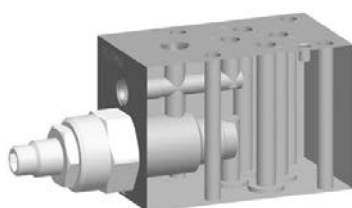
FLOW CONTROL

HS31MNP



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|---|---------|----------------|
| NV10-20 | 45 | 280 | Single needle valve meter-in on P | | \$ 292.00 |
| FR50-28 | 34 | 280 | Pressure compensated flow control on P. | | \$ 424.00 |
| Manifold Dimensions: 90 x 50 x 50 mm. HS31MNP manifold only \$ 212.00 | | | | | |

HS31MNA



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|---|---------|----------------|
| FC10-21 | 60 | 280 | Single needle valve with free reverse flow on A – meter out | | \$ 293.00 |
| FC10-20 | 45 | 280 | Single needle valve with free reverse flow on A – meter in | | \$ 301.00 |
| FR50-28 | 34 | 280 | Pressure compensated flow control on A – meter out | | \$ 404.00 |
| Manifold Dimensions: 75 x 44 x 50 mm. HS31MNA manifold only \$ 192.00 | | | | | |

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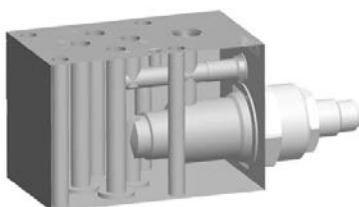
CETOP 3 MODULES

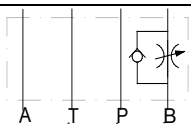
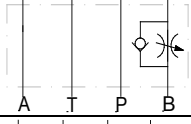

FLOW CONTROL

Click on individual cartridges for more info

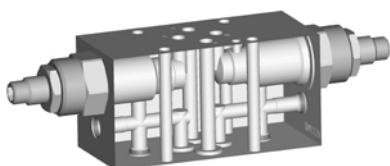


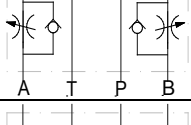
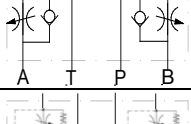
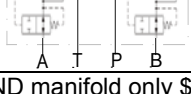
HS31MNB



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|---|---|----------------|
| FC10-21 | 60 | 280 | Single needle valve with free reverse flow on B – meter out |  | \$ 293.00 |
| FC10-20 | 45 | 280 | Single needle valve with free reverse flow on B – meter in |  | \$ 301.00 |
| FR50-28 | 34 | 280 | Pressure compensated flow control on B – meter out |  | \$ 404.00 |
| Manifold Dimensions: 75 x 44 x 50 mm. HS31MNB manifold only \$ 192.00 | | | | | |

HS31MND



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|---|----------------|--------------|--|---|----------------|
| 2 x FC10-20 | 45 | 280 | Dual needle valve with free reverse flow – meter out |  | \$ 430.00 |
| 2 x FC10-21 | 60 | 280 | Dual needle valve with free reverse flow – meter in |  | \$ 414.00 |
| 2 x FR50-28 | 34 | 280 | Pressure compensated dual flow control – meter in |  | \$ 636.00 |
| Manifold Dimensions: 96 x 44 x 50 mm. HS31MND manifold only \$ 212.00 | | | | | |

(Continued on next page)

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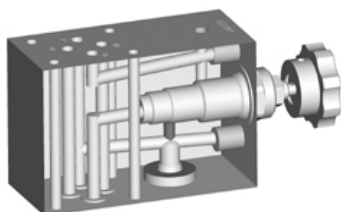
CETOP 3 MODULES

FLOW CONTROL

Click on individual cartridges for more info

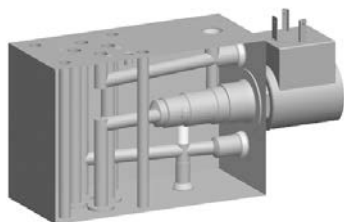


HS31MFP



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|--|----------------|--------------|--|---------|----------------|
| FR10-39A | 57 | 280 | Pressure compensated priority flow control valve meter-in on P. Full range adjustment, regulated flow 0 – 38LPM. Bypass can be plugged for restricted flow control valve on P. Regulated flow 0 – 34LPM | | \$ 618.00 |
| PV70-30 | 50 | 280 | Proportional pressure compensated flow control on P with Bypass to T. Bypass can be plugged for restrictive flow on P. | | \$ 1014.00 |
| Manifold Dimensions: 110 x 50 x 75 mm. HS31MFP manifold only \$ 418.00 | | | | | |

HS3108MFP



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|--|----------------|--------------|---|---------|----------------|
| PV08-30 | 23 | 280 | Low flow proportional pressure compensated flow control on P. Regulated flow: Bypass open 11.4LPM, bypass blocked 11.4LPM | | \$ 896.00 |
| Manifold Dimensions: 110 x 50 x 75 mm. HS3108MFP manifold only \$ 418.00 | | | | | |

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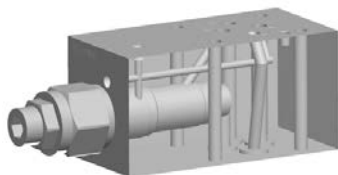
CETOP 3 MODULES

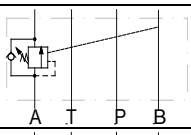
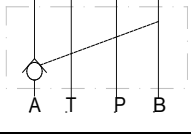
LOAD CONTROL

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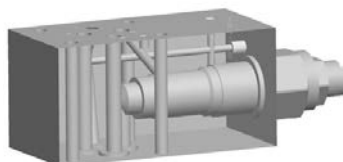


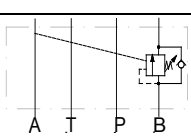
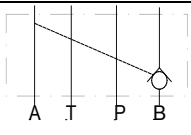
HS31MMA



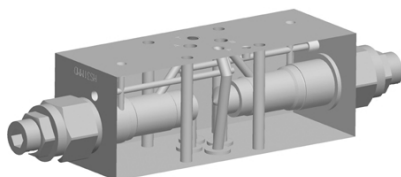
| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|--|----------------|--------------|--|---|----------------|
| CBPA-20M | 76 | 280 | Counterbalance on port A, pilot from B. 4:1 ratio. |  | \$ 527.00 |
| CKCD | 60 | 280 | Pilot operated check holds on port A, pilot from B. 3:1 ratio. |  | \$ 501.00 |
| Manifold Dimensions: 100 x 50 x 50 mm. HS31MMA manifold only \$ 317.00 | | | | | |

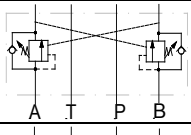
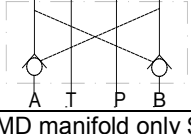
HS31MMB



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|--|----------------|--------------|--|---|----------------|
| CBPA-20M | 76 | 280 | Counterbalance on port B, pilot from A. 4:1 ratio. |  | \$ 527.00 |
| CKCD | 60 | 280 | Pilot operated check holds on port B, pilot from A. 3:1 ratio. |  | \$ 501.00 |
| Manifold Dimensions: 100 x 50 x 50 mm. HS31MMB manifold only \$ 317.00 | | | | | |

HS31MMD



| Cartridge Options | Q max l/min | P max bar | Notes | Circuit | Assembly Price |
|--|----------------|--------------|---------------------------------------|---|----------------|
| CBPA-20M x 2 | 76 | 280 | Dual counterbalance. 4:1 ratio. |  | \$ 872.00 |
| CKCD x 2 | 60 | 280 | Dual pilot operated check. 3:1 ratio. |  | \$ 820.00 |
| Manifold Dimensions: 136 x 50 x 50 mm. HS31MMD manifold only \$ 452.00 | | | | | |

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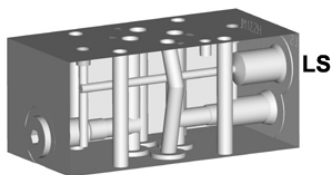
CETOP 3 MODULES

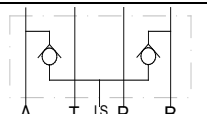
LOAD SENSE

Click on individual cartridges for more info

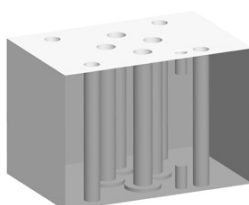


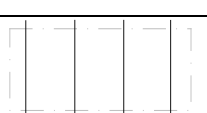
HS31ML



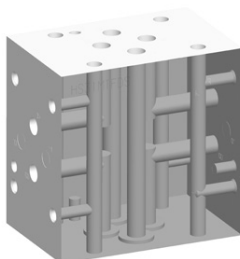
| Cartridge Options | P max bar | Notes | Circuit | Assembly Price |
|--|--------------|--|---|----------------|
| CV04-20 x 2 | 280 | Dual load sense module. LS port 1/4" BSPP. |  | \$ 316.00 |
| Manifold Dimensions: 90 x 40 x 44 mm. HS31ML manifold only \$ 224.00 | | | | |

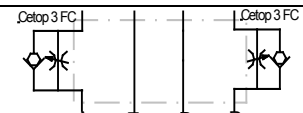
HS31MT48S



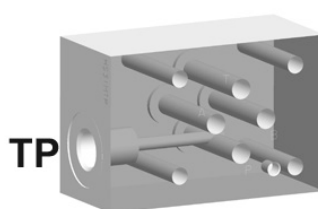
| Cartridge Options | P max bar | Notes | Circuit | Assembly Price |
|---------------------------------------|--------------|--|---|----------------|
| N/A | 350 | Extension module, all ports through module |  | \$ 195.00 |
| Manifold Dimensions: 70 x 46 x 48 mm. | | | | |

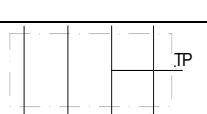
HS31MTFDS



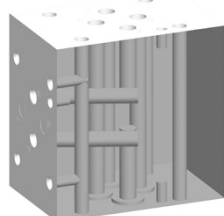
| Cartridge Options | P max bar | Notes | Circuit | Assembly Price |
|---------------------------------------|--------------|---|--|----------------|
| N/A | 350 | Flow control module, dual control A & B |  | \$ 590.00 |
| Manifold Dimensions: 70 x 46 x 70 mm. | | | | |

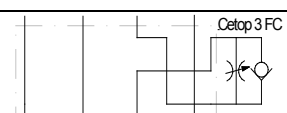
HS31MTP



| Cartridge Options | P max bar | Notes | Circuit | Assembly Price |
|---------------------------------------|--------------|------------------------|---|----------------|
| N/A | 280 | Test point on P module |  | \$ 185.00 |
| Manifold Dimensions: 70 x 50 x 35 mm. | | | | |

HS31MTFPS



| Cartridge Options | P max bar | Notes | Circuit | Assembly Price |
|---------------------------------------|--------------|--|--|----------------|
| N/A | 350 | Flow control module – one way control on P |  | \$ 425.00 |
| Manifold Dimensions: 70 x 70 x 46 mm. | | | | |

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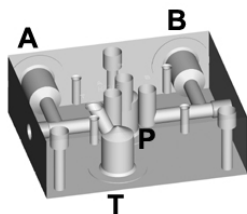
CETOP 5 SUBPLATES

SINGLE STATION

Click on individual cartridges for more info

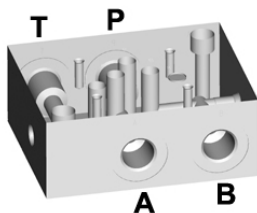


HS51E



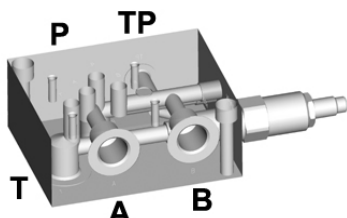
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---------------------------------------|----------------|--------------|------------------------------------|---------------|----------------|
| N/A | 110 | 280 | P & T on bottom, A & B on one side | 1/2" | \$ 195.00 |
| Manifold Dimensions: 120 x 99 x 39 mm | | | | | |

HS51SA

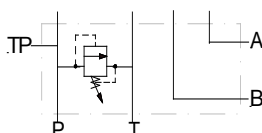


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|----------------|
| N/A | 110 | 280 | P & T on one side, A & B on opposite side | 1/2" | \$ 205.00 |
| Manifold Dimensions: 126 x 100 x 50 mm | | | | | |

HS51ER



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|----------------|
| RV10-22 | 110 | 280 | P & T on bottom, A & B on one side (1/2"), TP (1/4") other side. Relief on P. | 1/4"-1/2" | \$ 437.00 |
| Manifold Dimensions: 125 x 100 x 50 mm. HS51ER manifold only \$ 304.00 | | | | | |



(Continued on next page)

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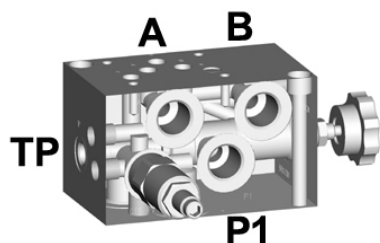
CETOP 5 SUBPLATES

SINGLE STATION

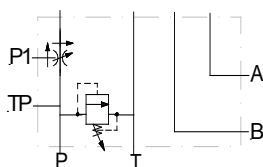
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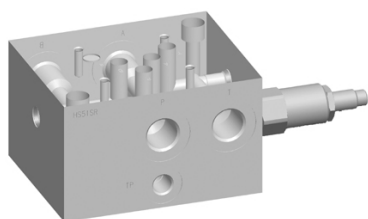
HS51ERF



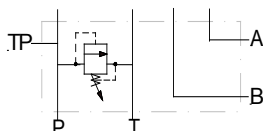
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| RV10-26 +FR12-33E | 110 | 280 | Compensated priority flow control valve (0-68LPM reg.) on P. Bypass flow can be used and plugged (0-45LPM reg. for variable pump). P & T on bottom, A & B and Bypass on one side. Relief on P. | 1/2" | \$ 868.00 |
| Manifold Dimensions: 125 x 75 x 75 mm. HS51ERF manifold only \$ 395.00 | | | | | |



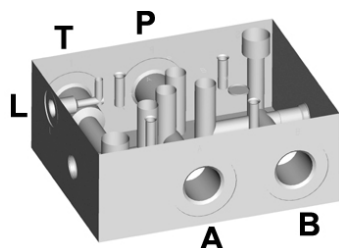
HS51SR



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| RV10-26 | 110 | 280 | P & T on one side, A & B opposite side (1/2"). TP (1/4") on one side. Relief on P. | 1/4"-1/2" | \$ 457.00 |
| Manifold Dimensions: 125 x 100 x 75 mm. HS51SR manifold only \$ 305.00 | | | | | |



HS51SS



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| N/A | 110 | 350 | Steel subplate. P & T on one side, A & B opposite side (1/2"). L drain port for proportional valves - 7/16" UNO. | 1/4"-1/2" | \$ 220.00 |
| Manifold Dimensions: 125 x 100 x 50 mm | | | | | |

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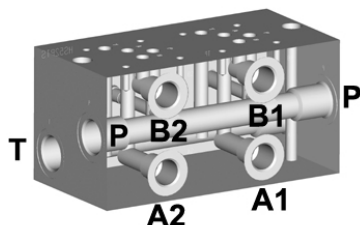
CETOP 5 SUBPLATES

TWO STATION - PARALLEL

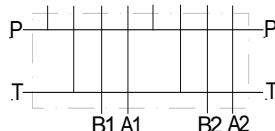
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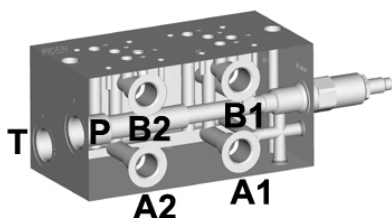
HS52PT



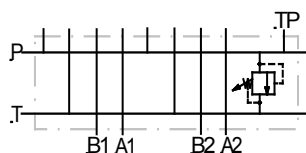
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|--|---------------|-------------------|
| N/A | 110 | 280 | P & T (3/4") through two ends. All A & B ports (1/2") on one side. | 1/2"-3/4" | \$ 615.00 |
| Manifold Dimensions: 198 x 100 x 100 mm | | | | | |



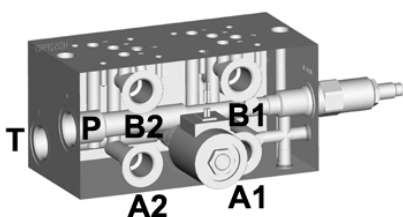
HS52PR



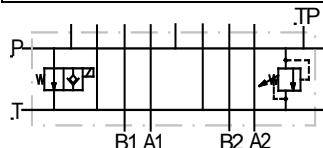
| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|---|---------------|-------------------|
| RV10-26 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-3/4" | \$ 816.00 |
| Manifold Dimensions: 198 x 100 x 100 mm. HS52PR manifold only \$ 664.00 | | | | | |



HS52PRD



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|---|---------------|-------------------|
| RV10-26 +SV12-21 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Relief and N.O. solenoid valve on P. | 1/4"-3/4" | \$ 1216.00 |
| Manifold Dimensions: 198 x 100 x 100 mm. HS52PRD manifold only \$ 755.00 | | | | | |



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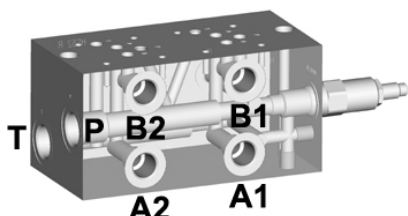
CETOP 5 SUBPLATES

TWO STATION – SERIES

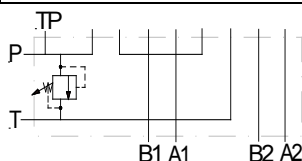
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HS52SR

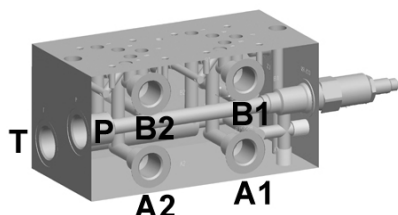


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|---|---------------|-------------------|
| RV10-26 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP (1/4") port on other side. Relief on P. | 1/4"-3/4" | \$ 816.00 |
| Manifold Dimensions: 198 x 100 x 100 mm. HS52SR manifold only \$ 664.00 | | | | | |

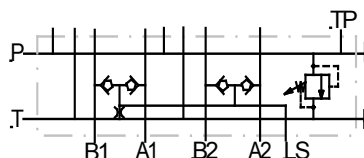


TWO STATION – LOAD SENSE

HS52LR



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|--|---------------|-------------------|
| RV10-26 + 4 x CV04-20 | 110 | 280 | P & T (3/4") on one end. LS port (1/4") on other end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Four load sense checks. Relief on P. 0.4 mm bleed orifice. | 1/4"-3/4" | \$ 1092.00 |
| Manifold Dimensions: 198 x 100 x 100 mm. HS52LR manifold only \$ 756.00 | | | | | |



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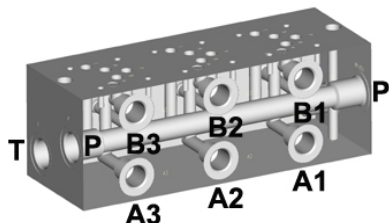
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CETOP 5 SUBPLATES

THREE STATION – PARALLEL [Click on individual cartridges for more info](#)

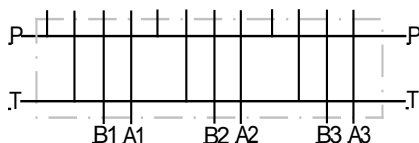


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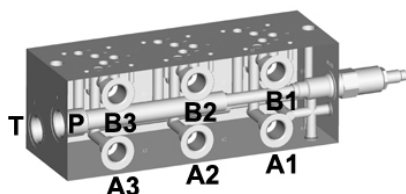


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|--|---------------|-------------------|
| N/A | 110 | 280 | P & T (3/4") through two ends. All A & B ports (1/2") on one side. | 1/2"-3/4" | \$ 685.00 |

Manifold Dimensions: 280 x 100 x 100 mm

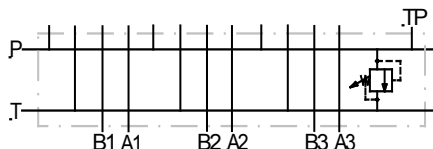


HS53PR

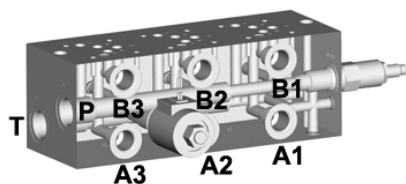


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|---|---------------|-------------------|
| RV10-26 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-3/4" | \$ 885.00 |

Manifold Dimensions: 280 x 100 x 100 mm. HS53PR manifold only \$ 733.00

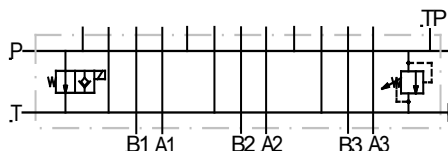


HS53PRD



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|---|---------------|-------------------|
| RV10-26 + SV12-21 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Relief and N.O. solenoid valve on P. | 1/4"-3/4" | \$ 1285.00 |

Manifold Dimensions: 280 x 100 x 100 mm. HS53PRD manifold only \$ 824.00



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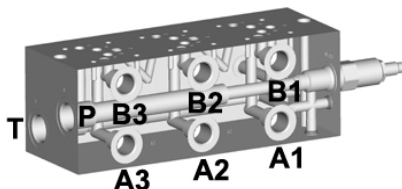
CETOP 5 SUBPLATES

THREE STATION – SERIES

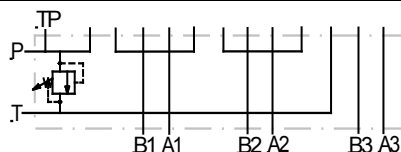
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HS53SR

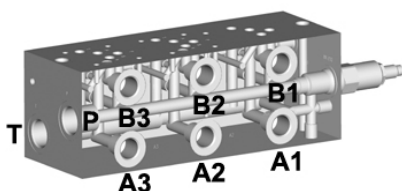


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|---|---------------|-------------------|
| RV10-26 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP (1/4") port on other side. Relief on P. | 1/4"-3/4" | \$ 885.00 |
| Manifold Dimensions: 280 x 100 x 100 mm. HS53SR manifold only \$ 733.00 | | | | | |

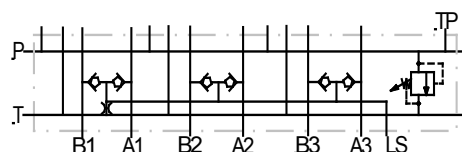


THREE STATION – LOAD SENSE

HS53LR



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|--|---------------|-------------------|
| RV10-26 + 6 x CV04-20 | 110 | 280 | P & T (3/4") on one end. LS port (1/4") on other end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Four load sense checks. Relief on P. 0.4 mm bleed orifice. | 1/4"-3/4" | \$ 1321.00 |
| Manifold Dimensions: 280 x 100 x 100 mm. HS53LR manifold only \$ 893.00 | | | | | |



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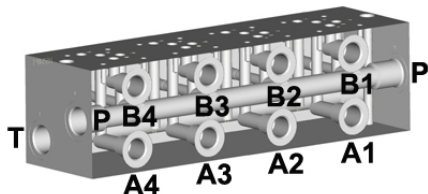
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CETOP 5 SUBPLATES

FOUR STATION – PARALLEL *Click on individual cartridges for more info*

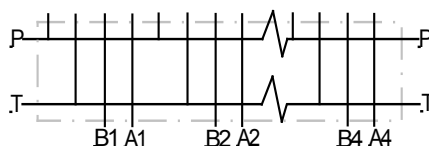


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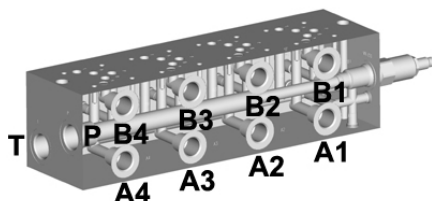


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|--|---------------|-------------------|
| N/A | 110 | 280 | P & T (3/4") through two ends. All A & B ports (1/2") on one side. | 1/2"-3/4" | \$ 800.00 |

Manifold Dimensions: 362 x 100 x 100 mm

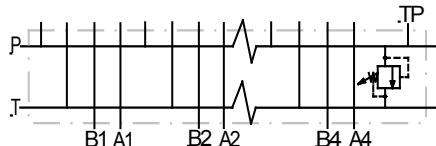


HS54PR

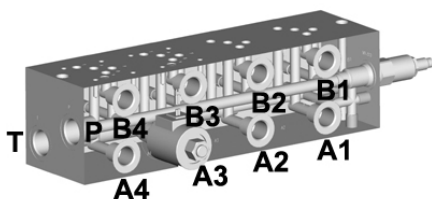


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|---|---------------|-------------------|
| RV10-26 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-3/4" | \$ 1022.00 |

Manifold Dimensions: 362 x 100 x 100 mm. HS54PR manifold only \$ 870.00

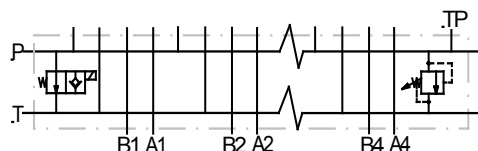


HS54PRD



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|---|---------------|-------------------|
| RV10-26 + SV12-21 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Relief and N.O. solenoid valve on P. | 1/4"-3/4" | \$ 1422.00 |

Manifold Dimensions: 362 x 100 x 100 mm. HS54PRD manifold only \$ 961.00



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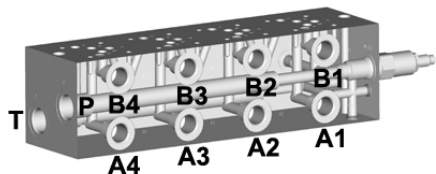
CETOP 5 SUBPLATES

FOUR STATION – SERIES

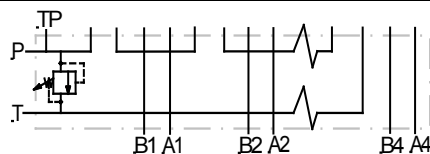
Click on individual cartridges for more info



HS54SR

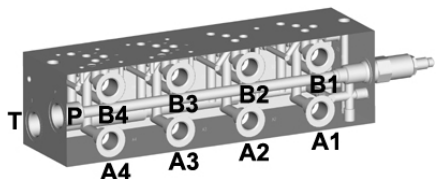


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|---|---------------|-------------------|
| RV10-26 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP (1/4") port on other side. Relief on P. | 1/4"-3/4" | \$ 1022.00 |
| Manifold Dimensions: 362 x 100 x 100 mm. HS54SR manifold only \$ 870.00 | | | | | |

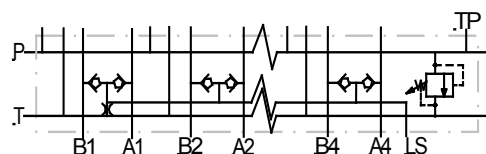


FOUR STATION – LOAD SENSE

HS54LR



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| RV10-26 + 8 x CV04-20 | 110 | 280 | P & T (3/4") on one end. LS port (1/4") on other end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Four load sense checks. Relief on P. 0.4 mm bleed orifice. | 1/4"-3/4" | \$ 1630.00 |
| Manifold Dimensions: 362 x 100 x 100 mm. HS54LR manifold only \$ 1110.00 | | | | | |



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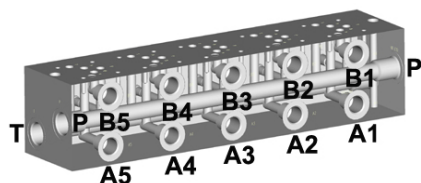
CETOP 5 SUBPLATES

FIVE STATION – PARALLEL

[Click on individual cartridges for more info](#)

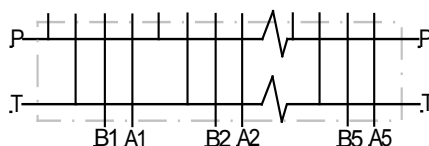


HS55PT

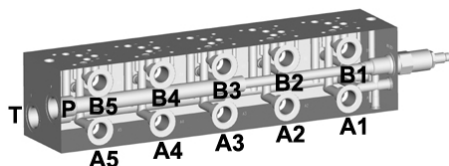


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|--|---------------|-------------------|
| N/A | 110 | 280 | P & T (3/4") through two ends. All A & B ports (1/2") on one side. | 1/2"-3/4" | \$ 910.00 |

Manifold Dimensions: 444 x 100 x 100 mm.

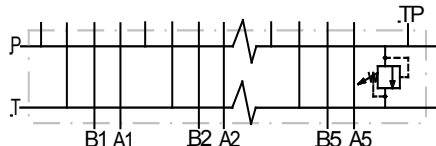


HS55PR

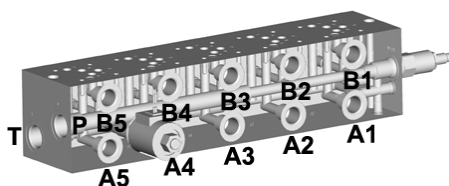


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|---|---------------|-------------------|
| RV10-26 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Relief on P. | 1/4"-3/4" | \$ 1137.00 |

Manifold Dimensions: 444 x 100 x 100 mm. HS55PR manifold only \$ 985.00

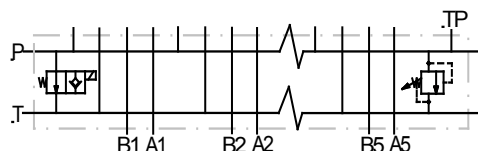


HS55PRD



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|-------------------|----------------|--------------|---|---------------|-------------------|
| RV10-26 + SV12-21 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Relief and N.O. solenoid valve on P. | 1/4"-3/4" | \$ 1537.00 |

Manifold Dimensions: 444 x 100 x 100 mm. HS55PRD manifold only \$ 1076.00



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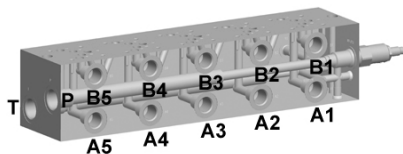
CETOP 5 SUBPLATES

FIVE STATION – SERIES

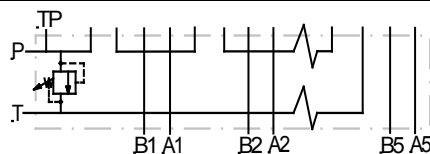
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HS55SR

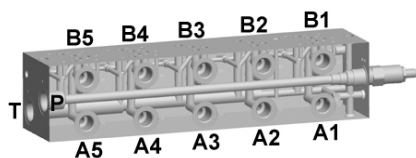


| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|---|----------------|--------------|---|---------------|-------------------|
| RV10-26 | 110 | 280 | P & T (3/4") on one end. All A & B ports (1/2") on one side. TP (1/4") port on other side. Relief on P. | 1/4"-3/4" | \$ 985.00 |
| Manifold Dimensions: 444 x 100 x 100 mm. HS55SR manifold only \$ 987.00 | | | | | |

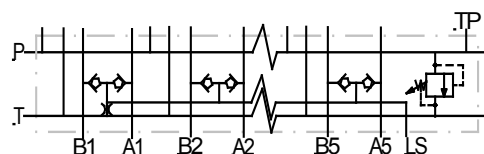


FIVE STATION – LOAD SENSE

HS55LR



| Cartridge Options | Q max l/min | P max bar | Notes | Ports BSPP | Assembly Price |
|--|----------------|--------------|--|---------------|-------------------|
| RV10-26 + 10 x CV04-20 | 110 | 280 | P & T (3/4") on one end. LS port (1/4") on other end. All A & B ports (1/2") on one side. TP port (1/4") on other side. Four load sense checks. Relief on P. 0.4 mm bleed orifice. | 1/4"-3/4" | \$ 1757.00 |
| Manifold Dimensions: 444 x 100 x 100 mm. HS55LR manifold only \$ 1145.00 | | | | | |



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