

# PRODUCT GUIDE

- ▶ Hydraulic Cartridge Valves
- ▶ Manifold Systems
- ▶ Electronic Controls
- ▶ Australian Authorised Distributor
- ▶ Stocking in excess of 1,200 HydraForce line items including cartridges, line bodies and electronics





# HYDRAFORCE

**POWER FORWARD**

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

## Multifunction Valves

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

### Our Vision

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

### Our Mission

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

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

### Hydraulic Cartridge Valves

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



## HyPerformance™ Valves

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



## High Quality, Precision Manufacturing

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

Our equipment includes the following:

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

## Product Qualification

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



## Manifold Systems

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

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

**FIND COMPLETE TECHNICAL INFORMATION  
AND NEW PRODUCTS AT [HYDRAFORCE.COM](http://HYDRAFORCE.COM)**



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

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

[info.hydraforce.com/downloadi-design](http://info.hydraforce.com/downloadi-design)



#### Electronic Controls

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

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

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

[www.hydraforce.com/electronics](http://www.hydraforce.com/electronics)

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

## INTEGR8

ENGINEERED HYDRAULIC CONTROL SOLUTIONS

#### INTEGR8

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

All INTEGR8 circuits are 100% logic and function tested.

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



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

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



**Contact us for additional product information:**

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



#### **HydraForce Electronic Control Units**

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

#### **HydraForce Electronic Valve Drivers**

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

#### **Firmware Personalities**

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

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

#### **ExDR-0101A**

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

#### **ExDR-0201A**

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

#### **ECDR-0203A**

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

#### **ECDR-0506A**

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



## Displays

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

## ECBP Electronic CAN Button Panels

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

## Sensors and Accessories

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

## HF-Impulse Software

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

## Electronics

### HydraForce electronic control units

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

### Drivers and controllers

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

### Display/operator input devices

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

### ECBP electronic CAN button panels

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

### Heavy-duty pressure sensors

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

### Thermistor temperature sensors

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

Refer to the HydraForce catalog for additional information and specifications. Complete technical information, including user manuals, are available on the HydraForce electronics portal at [hydraforce.com/electronics](http://hydraforce.com/electronics).



## Next Generation (G3) Cartridge Valves

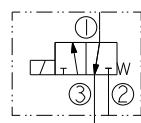
HydraForce has a complete range of control solutions for pilot control, diesel engine and powertrain systems, and transmissions. Fuel efficiency and emissions standards continue to drive the demand for more efficient, reliable powertrain systems. HydraForce meets the demand by providing the next generation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

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



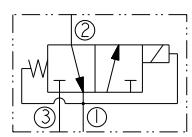
## G3 Valves

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



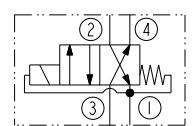
Model	Pressure bar (psi)	Flow lpm (gpm)
SV98-G38	45 (650)	30 (8)

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



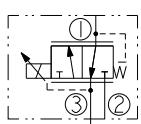
Model	Pressure bar (psi)	Flow lpm (gpm)
SV90-G39	45 (650)	30 (8)

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



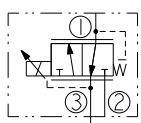
Model	Pressure bar (psi)	Flow lpm (gpm)
SV90-G40R	45 (650)	30 (8)

**Proportional pressure  
reducing/relieving  
valve, drop-in**



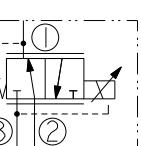
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR98-G33	45 (650)	4 (1)

**Proportional pressure  
reducing/relieving  
valve, drop-in**



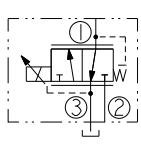
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR98-G35	45 (650)	6 (2)

**Proportional pressure  
reducing/relieving  
valve, drop-in**



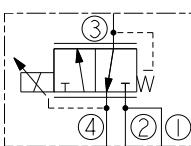
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR98-G37	45 (650)	18 (5)

**Proportional pressure  
reducing/relieving  
valve, drop-in**



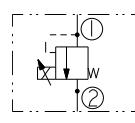
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR98-G38	35 (500)	30 (8)

**Proportional pressure  
reducing/relieving  
valve, drop-in**



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

**Proportional pressure  
relief valve, drop-in**



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



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

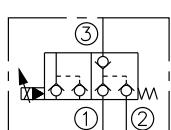
- Directional valves with isolated load-sense checks
- Solenoid valves with internal flow checks
- Solenoid valves with Integrated pressure relief
- Proportional flow controls with integrated pressure compensation
- Logic elements with built-in relief
- Logic elements with flow regulation
- Flow controls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



## Multifunction Valves

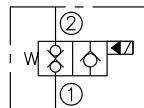
Solenoid valve, poppet type, normally closed, load sense port

US Pat. 7,921,880



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

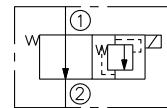
Solenoid valve, poppet type, normally closed, internal outlet flow check



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

Solenoid valve, normally open, integral pressure relief

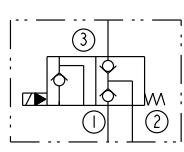
US Pat. 7,137,406



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

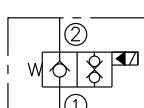
Solenoid valve, poppet type, normally open, load sense port

US Pat. 7,921,880



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

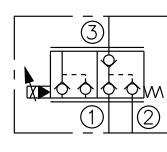
Solenoid valve, poppet type, normally open, internal outlet flow check



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

Proportional flow control, normally closed, isolated load sense port

US Pat. 7,921,880



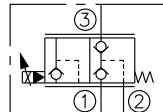
Model	Pressure bar (psi)	Flow lpm (gpm)
SPCL10-30	250 (3625)	57 (15)
SPCL16-30	250 (3625)	152 (40)

## SOLENOID ON/OFF VALVES

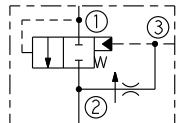


Proportional flow control, normally closed, load sense port

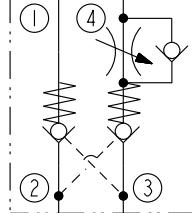
US Pat. 7,921,880



Logic element with flow regulator

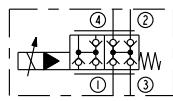


Dual PO check with adjustable flow control



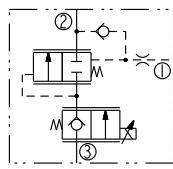
Proportional directional valve, 2-position, 4-way, normally closed, isolated load sense port

US Pat. 7,921,880



Proportional flow control valve with integral compensator

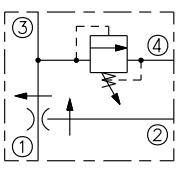
US Pat. 7,261,030



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

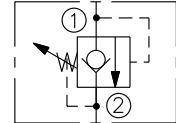
Flow control with adjustable pressure relief

US Pat. 7,063,100



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

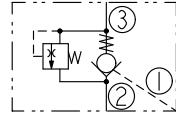
Relief valve, direct acting with anti-cavitation check



Model

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

Check, pilot to open, integrated thermal relief

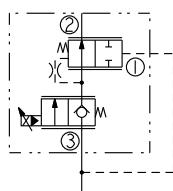


Model

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

Proportional flow control valve with integral compensator

US Pat. 7,261,030



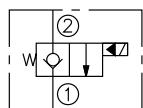
Model	Pressure bar (psi)	Flow lpm (gpm)
HSPEC10-34	350 (5075)	34 (9)
HSPEC12-34	350 (5075)	61 (16)



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

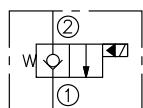
## Solenoid Valves

**Solenoid valve, piloted poppet type, normally closed**



Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-20	345 (5000)	19 (5)

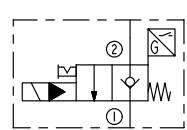
**Solenoid valve, poppet type, normally closed**



\* available with position sensor

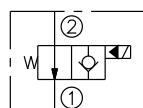
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-20	207 (3000)	23 (6)
SV08-20J	207 (3000)	23 (6)
HSV10-20	350 (5075)	76 (20)
SV10-20, SV10-P20A*	240 (3500)	57 (15)
HSV12-20	350 (5075)	114 (30)
SV12-20, SV12-P20A*	240 (3500)	114 (30)
SV16-20	240 (3500)	95 (25)

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



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

**Solenoid valve, piloted poppet type, normally open**

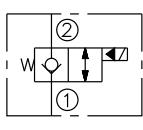


**Solenoid valve, poppet type, normally open**

\* available with position sensor

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

**Solenoid valve, piloted poppet type, normally closed, bidirectional**



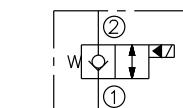
Model	Pressure bar (psi)	Flow lpm (gpm)
SF08-22	345 (5000)	23 (6)
SF20-22	345 (5000)	303 (80)

**Solenoid valve, poppet type, normally closed, bidirectional**

\* available with position sensor

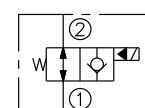
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-22	207 (3000)	27 (7)
HSV10-22	350 (5075)	76 (20)
SV10-22, SV10-P22A*	240 (3500)	57 (15)
HSV12-22	350 (5075)	114 (30)
SV12-22, SV12-P22A*	240 (3500)	114 (30)
SV16-22, SV16-P22A*	240 (3500)	151 (40)

**Solenoid valve, needle type, normally closed**



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

**Solenoid valve, piloted poppet type, normally open, bidirectional**



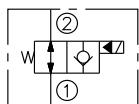
Model	Pressure bar (psi)	Flow lpm (gpm)
SF08-23	345 (5000)	30 (8)
SF20-23	345 (5000)	303 (80)

# SOLENOID ON/OFF VALVES

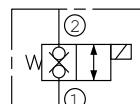


Solenoid valve, poppet type, normally open, bidirectional

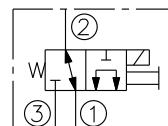
\* available with position sensor



Solenoid valve, blocking, normally closed, bidirectional

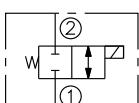


Solenoid valve, 2-position, 3-way



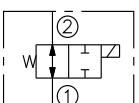
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-23	207 (3000)	30 (8)
HSV10-23	350 (5075)	76 (20)
SV10-23, SV10-P23A*	207 (3000)	68 (18)
HSV12-23	350 (5075)	114 (30)
SV12-23, SV12-P23A*	240 (3500)	114 (30)
SV16-23	207 (3000)	132 (35)

Solenoid valve, spool type, normally closed, bidirectional



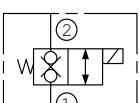
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-24	207 (3000)	17 (4)
HSV10-24	350 (5075)	30 (8)
SV10-24	207 (3000)	38 (10)
SV12-24	240 (3500)	76 (20)

Solenoid valve, spool type, normally open, bidirectional



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

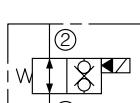
Solenoid valve, blocking, normally closed, low flow



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

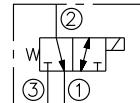
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-28	207 (3000)	11 (3)
HSV10-28	350 (5075)	76 (20)
SV10-28	240 (3500)	76 (20)
HSV12-28	350 (5075)	114 (30)
SV12-28	240 (3500)	114 (30)
SV38-28	207 (3000)	19 (5)

Solenoid valve, poppet type, normally open

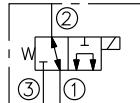


Model	Pressure bar (psi)	Flow lpm (gpm)
HSV10-29	350 (5075)	76 (20)
SV10-29	240 (3500)	76 (20)
HSV12-29	350 (5075)	114 (30)
SV12-29	240 (3500)	114 (30)

Solenoid valve, 2-position, 3-way



Solenoid valve, 2-position, 3-way



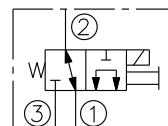
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-30	207 (3000)	15 (4)
SV38-30	207 (3000)	18 (5)

Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-31	207 (3000)	6 (2)
SV08-31	207 (3000)	11 (3)
SV10-31	207 (3000)	22 (6)

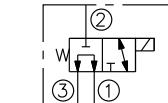
Solenoid valve, 2-position, 3-way



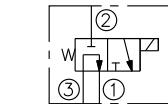
Solenoid valve, 2-position, 3-way



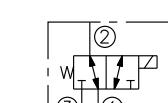
Solenoid valve, 2-position, 3-way



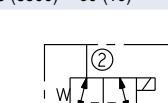
Solenoid valve, 2-position, 3-way



Solenoid valve, 2-position, 3-way



Solenoid valve, 2-position, 3-way

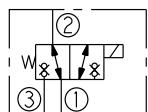


Solenoid valve, 2-position, 3-way

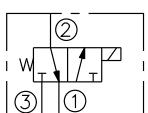
# SOLENOID ON/OFF VALVES



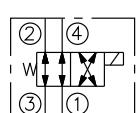
Solenoid valve,  
poppet type, normally  
closed, internally  
piloted, high flow



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



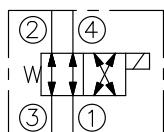
Solenoid directional  
valve, 2-position,  
4-way, open transition



\* available with  
position sensor

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

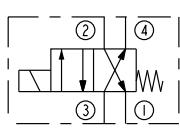
Solenoid directional  
valve, 2-position,  
4-way, closed transition



\* available with  
position sensor

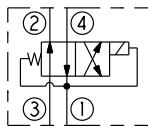
Model	Pressure bar (psi)	Flow lpm (gpm)
SV10-40A, SV10-P40A*	207 (3000)	38 (10)

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

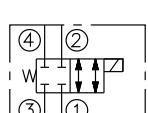


Model	Pressure bar (psi)	Flow lpm (gpm)
HSV10-40R	350 (5075)	23 (6)
SV12-40R	240 (3500)	60 (16)

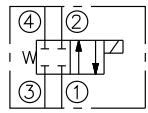
Solenoid directional  
valve, 2-position,  
4-way, drop-in



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

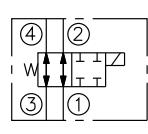


Solenoid directional  
valve, 2-position,  
4-way, normally closed



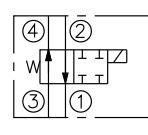
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-41	207 (3000)	13 (3)
SV10-41	207 (3000)	26 (7)
SV58-41	345 (5000)	26 (7)

Solenoid directional  
valve, 2-position,  
4-way



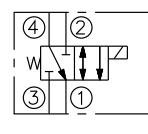
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-42	207 (3000)	11 (3)
SV10-42	207 (3000)	23 (6)

Solenoid directional  
valve, 2-position,  
4-way



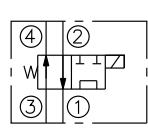
Model	Pressure bar (psi)	Flow lpm (gpm)
SV12-42	240 (3500)	60 (16)

Solenoid directional  
valve, 2-position,  
4-way



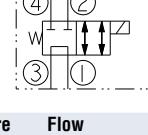
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-43	207 (3000)	11 (3)
SV10-43	207 (3000)	22 (6)

Solenoid directional  
valve, 2-position,  
4-way



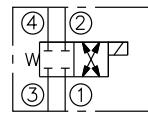
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-44	207 (3000)	11 (3)
SV10-44	207 (3000)	22 (6)

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



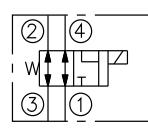
Model	Pressure bar (psi)	Flow lpm (gpm)
HSV10-44R	350 (5075)	23 (6)

Solenoid directional  
valve, 2-position,  
4-way



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

Solenoid directional  
valve, 2-position,  
4-way

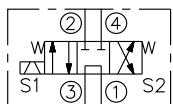


Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-46	207 (3000)	11 (3)

## ELECTRO-PROPORTIONAL VALVES

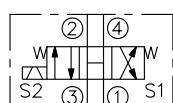


Solenoid directional valve, 3-position, 4-way, tandem center



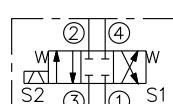
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-47A	207 (3000)	11 (3)
SV10-47A	240 (3500)	19 (5)

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



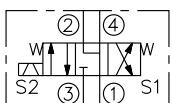
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-47B	207 (3000)	11 (3)
SV10-47B	240 (3500)	23 (6)

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



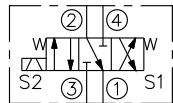
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-47C	207 (3000)	11 (3)
HSV10-47C	350 (5075)	38 (10)
SV10-47C	240 (3500)	23 (6)
HSV12-47C	350 (5075)	57 (15)

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



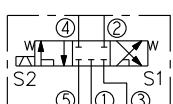
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-47D	207 (3000)	11 (3)
HSV10-47D	350 (5075)	34 (9)
SV10-47D	240 (3500)	23 (6)

Solenoid directional valve, 3-position, 4-way

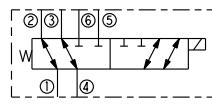


Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-47E	207 (3000)	11 (3)
SV10-47E	250 (3625)	30 (8)

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

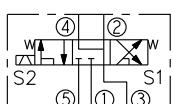


Solenoid selector valve, 2-position, 6-way



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

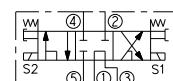
Solenoid directional valve, 3-position, 5-way, motor center, load sense port



Model	Pressure bar (psi)	Flow lpm (gpm)
SV80-61	207 (3000)	8 (2)

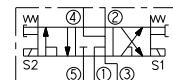
Model	Pressure bar (psi)	Flow lpm (gpm)
SV10-57D	250 (3625)	20 (5)

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



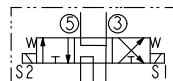
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-58C	207 (3000)	13 (3)
SV10-58C	250 (3625)	30 (8)

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



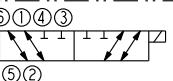
Model	Pressure bar (psi)	Flow lpm (gpm)
SV08-58D	240 (3500)	13 (4)
SV10-58D	250 (3625)	30 (8)

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



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

Solenoid selector valve, 2-position, 6-way



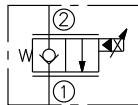
Model	Pressure bar (psi)	Flow lpm (gpm)
SV12-60	240 (3500)	45 (12)



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

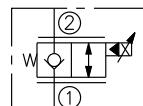
## Electro-proportional Valves

Proportional flow control, poppet type, normally closed



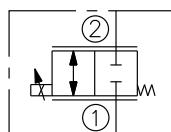
Model	Pressure bar (psi)	Flow lpm (gpm)
SP08-20	207 (3000)	22 (6)
SP08-20A	207 (3000)	30 (8)
HSP10-20	350 (5075)	53 (14)
SP10-20	250 (3625)	68 (18)
HSP12-20	350 (5075)	84 (22)
SP12-20	250 (3625)	100 (26)
HSP16-20	350 (5075)	265 (70)
SP16-20	250 (3625)	265 (70)

Proportional flow control, poppet type, normally closed, bidirectional



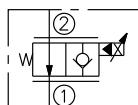
Model	Pressure bar (psi)	Flow lpm (gpm)
SP08-22	207 (3000)	30 (8)

Proportional flow control, spool type, normally closed, bidirectional



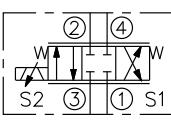
Model	Pressure bar (psi)	Flow lpm (gpm)
HSP08-24	350 (5075)	19 (5)
SP08-24	207 (3000)	11 (3)
SP10-24	207 (3000)	27 (7)

Proportional flow control, poppet type, normally open



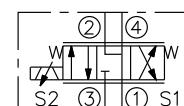
Model	Pressure bar (psi)	Flow lpm (gpm)
SP08-21	207 (3000)	23 (6)
HSP10-21	350 (5075)	53 (14)
SP10-21	250 (3625)	61 (16)
SP12-21	250 (3625)	200 (53)
HSP16-21	350 (5075)	95 (25)
SP16-21	250 (3625)	265 (70)

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



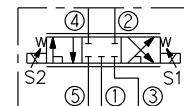
Model	Pressure bar (psi)	Flow lpm (gpm)
SP08-47C	240 (3500)	11 (3)
*HSP10-47C	350 (5075)	33 (9)
SP10-47C	248 (3600)	22 (6)
*HSP12-47C	350 (5075)	56 (15)
SP08-47CL	240 (3500)	8 (2)

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



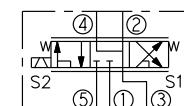
Model	Pressure bar (psi)	Flow lpm (gpm)
SP08-47D	240 (3500)	11 (3)
*HSP10-47D	350 (5075)	35 (9)
SP10-47D	207 (3000)	22 (6)
*HSP12-47D	350 (5075)	56 (15)
SP08-47DL	240 (3500)	8 (2)

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



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

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



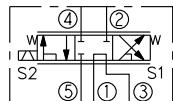
Model	Pressure bar (psi)	Flow lpm (gpm)
SP10-57D	250 (3625)	23 (6)
SP08-57D	240 (3500)	10 (3)

\* US Pat. 8,253,063

# ELECTRO-PROPORTIONAL VALVES

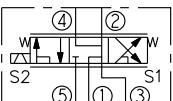


Proportional directional valve, 3-position, 5-way, closed center, brake release port



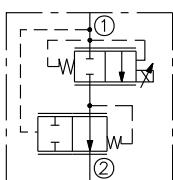
Model	Pressure bar (psi)	Flow lpm (gpm)
SP10-58C	250 (3625)	23 (6)

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



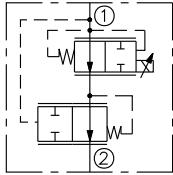
Model	Pressure bar (psi)	Flow lpm (gpm)
SP10-58D	250 (3625)	23 (6)
SP08-58D	240 (3500)	15 (4)

Pressure-compensated proportional flow control valve, normally closed



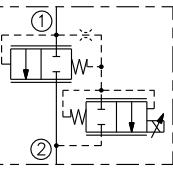
Model	Pressure bar (psi)	Flow lpm (gpm)
HPV12-20	350 (5075)	68 (18)
PV72-20	240 (3500)	64 (17)

Pressure-compensated proportional flow control valve, normally open



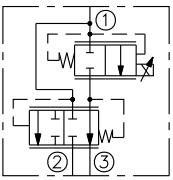
Model	Pressure bar (psi)	Flow lpm (gpm)
HPV12-21	350 (5075)	61 (16)
PV72-21	240 (3500)	56 (15)

Proportional flow control, normally closed



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

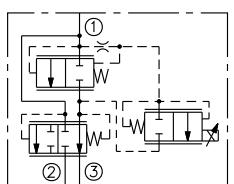
Proportional flow control, normally closed, priority bypass



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

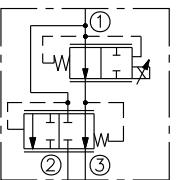
Proportional flow control, 2-stage, normally closed, priority bypass

US Pat. 6,966,329



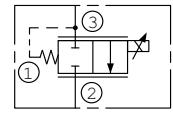
Model	Pressure bar (psi)	Flow lpm (gpm)
PV42-M30	240 (3500)	190 (50)

Proportional flow control, normally open, priority bypass



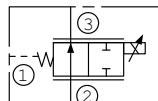
Model	Pressure bar (psi)	Flow lpm (gpm)
HPV12-31	350 (5075)	76 (20)
HPV16-31	350 (5075)	151 (40)
PV70-31	240 (3500)	50 (13)
PV72-31	240 (3500)	114 (30)

Proportional flow control, normally closed



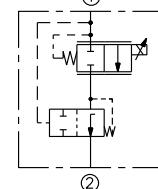
Model	Pressure bar (psi)	Flow lpm (gpm)
PV70-33	207 (3000)	30 (8)
PV72-33	240 (3500)	75 (20)

Proportional flow control, normally open



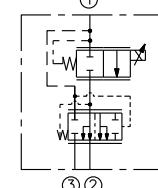
Model	Pressure bar (psi)	Flow lpm (gpm)
PV70-35	207 (3000)	30 (8)
PV72-35	207 (3000)	75 (20)

Proportional flow regulator, normally closed



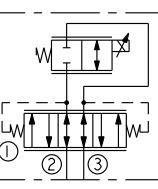
Model	Pressure bar (psi)	Flow lpm (gpm)
PFR70-33x-E	207 (3000)	30 (8)
PFR72-33x-L	207 (3000)	60 (16)

Proportional flow regulator, normally closed, priority bypass



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

Pressure compensated proportional flow control, normally closed



US Pat. 6,167,906

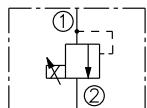
Model	Pressure bar (psi)	Flow lpm (gpm)
ZL70-30	240 (3500)	20 (5)

\* US Pat. 8,253,063

# DIRECTIONAL VALVES

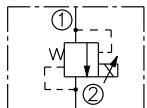


**Proportional pressure control valve, relief, increasing pressure with current**



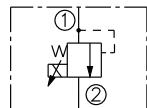
Model	Pressure bar (psi)	Flow lpm (gpm)
TS08-20	35 (500)	4 (1)
TS38-20	248 (3600)	11 (3)
TS58-20	345 (5000)	8 (2)

**Proportional pressure control valve, relief, decreasing pressure with current**



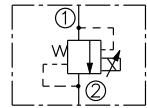
Model	Pressure bar (psi)	Flow lpm (gpm)
TS38-21	240 (3500)	1.1 (0.3)
TS58-21F	393 (5700)	1.9 (0.5)

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



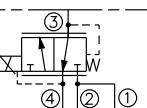
Model	Pressure bar (psi)	Flow lpm (gpm)
TS10-26	240 (3500)	95 (25)
TS12-26	240 (3500)	189 (50)

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



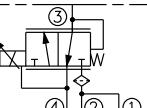
Model	Pressure bar (psi)	Flow lpm (gpm)
TS08-27	240 (3500)	25 (6)
TS10-27	275 (4000)	76 (20)
TS12-27	240 (3500)	186 (49)

**Proportional pressure reducing/relieving valve, pilot operated**



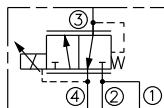
Model	Pressure bar (psi)	Flow lpm (gpm)
TS98-30	24 (350)	30 (8)

**Proportional pressure reducing/relieving valve, pilot operated**



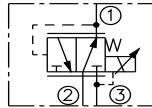
Model	Pressure bar (psi)	Flow lpm (gpm)
TS90-31	207 (3000)	38 (10)

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



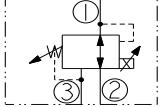
Model	Pressure bar (psi)	Flow lpm (gpm)
TS98-T34	30 (435)	30 (8)

**Proportional pressure reducing/relieving valve, pilot operated**



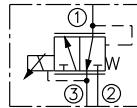
Model	Pressure bar (psi)	Flow lpm (gpm)
TS10-36	240 (3500)	57 (15)
TS12-36	275 (4000)	189 (50)

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



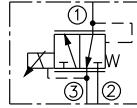
Model	Pressure bar (psi)	Flow lpm (gpm)
TS12-37F	276 (4000)	190 (50)

**Proportional pressure reducing/relieving valve**



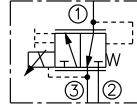
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR08-33	207 (3000)	4 (1)

**Proportional pressure reducing/relieving valve, drop-in**



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

**Proportional pressure reducing/relieving valve, drop-in**



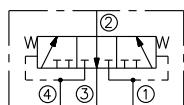
Model	Pressure bar (psi)	Flow lpm (gpm)
EHPR98-T35	103 (1500)	6 (2)
EHPR98-T38	240 (3500)	19 (5)
EHPR98-T38B	240 (3500)	19 (5)



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

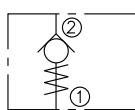
## Directional Valves

### Brake shuttle



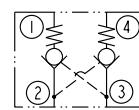
Model	Pressure bar (psi)	Flow lpm (gpm)
BV10-40	240 (3500)	8 (2)
HBV10-40	345 (5000)	8 (2)

### Check valve



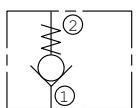
Model	Pressure bar (psi)	Flow lpm (gpm)
CV08-21	240 (3500)	30 (8)
CV12-21	240 (3500)	114 (30)
CV10-24	240 (3500)	57 (15)

### Pilot operated check valve, dual



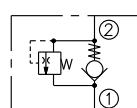
Model	Pressure bar (psi)	Flow lpm (gpm)
DC08-40	240 (3500)	19 (5)

### Check valve



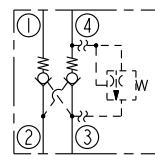
Model	Pressure bar (psi)	Flow lpm (gpm)
CV04-20	240 (3500)	5 (1.5)
CV04-B20	240 (3500)	5 (1.3)
HCV06-20	350 (5075)	19 (5)
CV08-20	240 (3500)	30 (8)
HCV08-20	350 (5075)	30 (8)
CV10-20	240 (3500)	75 (20)
HCV10-20	350 (5075)	76 (20)
CV50-20	345 (5000)	57 (15)
CV12-20	240 (3500)	95 (25)
HCV12-20	350 (5075)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

### Check valve



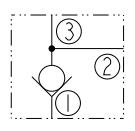
Model	Pressure bar (psi)	Flow lpm (gpm)
CV10-28	240 (3500)	45 (12)

### Pilot operated check valve, dual, optional thermal relief



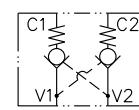
Model	Pressure bar (psi)	Flow lpm (gpm)
DC10-40	240 (3500)	30 (8)

### Check valve



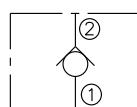
Model	Pressure bar (psi)	Flow lpm (gpm)
HCV16-30	350 (5075)	151 (40)

### Pilot operated check valve, dual cartridges in manifold



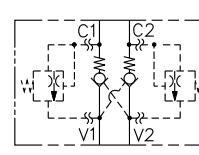
Model	Pressure bar (psi)	Flow lpm (gpm)
DCV08	240 (3500)	30 (8)
HDCV16	350 (5075)	151 (40)

### Check valve disk



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

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

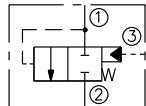


Model	Pressure bar (psi)	Flow lpm (gpm)
DCV10	240 (3500)	76 (20)

# DIRECTIONAL VALVES

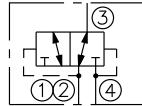


Logic element, spool type, 2-position, 2-way, externally piloted

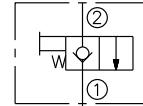


Model	Pressure bar (psi)	Flow lpm (gpm)
EP08-35	345 (5000)	38 (10)
EP10-S35	345 (5000)	76 (20)
EP12-S35	345 (5000)	151 (40)
EP16-S35	240 (3500)	189 (50)
HEP16-S35	350 (5075)	190 (50)
EP20-S35	345 (5000)	379 (100)
HEP42-S35	350 (5075)	379 (100)

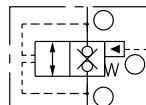
Low side (hot oil) shuttle valve, springless



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

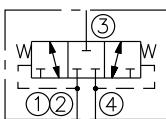


Logic element, poppet type, 2-position, 2-way, externally piloted

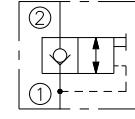


Model	Pressure bar (psi)	Flow lpm (gpm)
EP10-S38	350 (5075)	114 (30)
EP20-S38	240 (3500)	303 (80)
HEP42-S38	350 (5075)	284 (75)

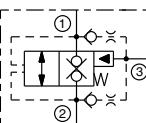
Low side (hot oil) shuttle valve



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

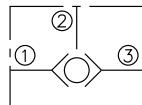


Logic element, poppet type, 2-position, 2-way, externally piloted

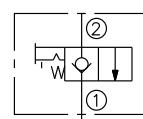


Model	Pressure bar (psi)	Flow lpm (gpm)
HEP16-S39	350 (5075)	190 (50)
EP20-S39	240 (3500)	285 (75)
HEP42-S39	350 (5075)	284 (75)

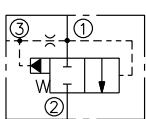
Load shuttle, ball type, down-hole mount



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

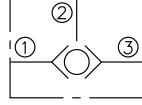


Logic element, spool type, vented

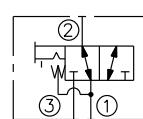


Model	Pressure bar (psi)	Flow lpm (gpm)
EV58-34	345 (5000)	38 (10)
EV10-S34	345 (5000)	76 (20)
EV12-S34	345 (5000)	151 (40)
EV16-S34	240 (3500)	189 (50)
HEV16-S34	350 (5075)	190 (50)
EV20-S34	345 (5000)	379 (100)
HEV42-S34	350 (5075)	379 (100)

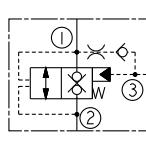
Load shuttle, ball type



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

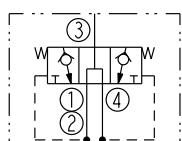


Logic element, poppet type, vent to open

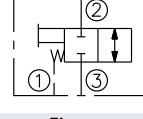


Model	Pressure bar (psi)	Flow lpm (gpm)
HEV12-S38	350 (5075)	114 (30)

Load shuttle, inverted



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



Model

MP08-34

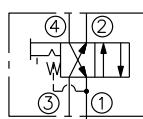
Pressure bar (psi)

240 (3500)

Flow lpm (gpm)

38 (10)

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



Model

MP08-40

Pressure bar (psi)

240 (3500)

Flow lpm (gpm)

12 (3)

Model

MP10-40

Pressure bar (psi)

207 (3000)

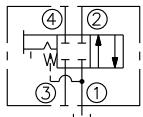
Flow lpm (gpm)

22 (6)

# DIRECTIONAL VALVES

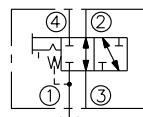


**Manual 2-position,  
4-way valve, pull to  
shift, spring return,  
closed transition**



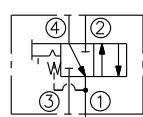
Model	Pressure bar (psi)	Flow lpm (gpm)
MP08-41	240 (3500)	12 (3)
MP10-41	207 (3000)	12 (3)

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



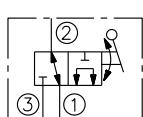
Model	Pressure bar (psi)	Flow lpm (gpm)
MP10-42	207 (3000)	12 (3)

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



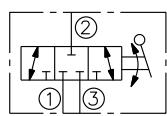
Model	Pressure bar (psi)	Flow lpm (gpm)
MP10-43	207 (3000)	12 (3)

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



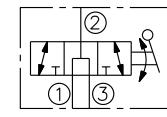
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-31	240 (3500)	38 (10)

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



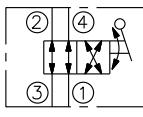
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-37A	240 (3500)	38 (10)

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



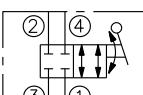
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-37B	240 (3500)	38 (10)

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



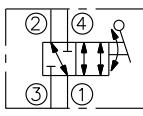
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-40	240 (3500)	11 (3)

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



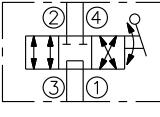
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-41	240 (3500)	11 (3)

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



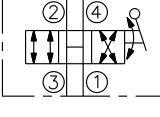
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-43	240 (3500)	11 (3)

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



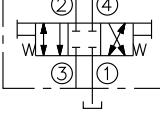
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47A	240 (3500)	11 (3)

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



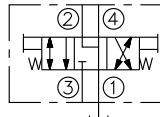
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47B	240 (3500)	11 (3)

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



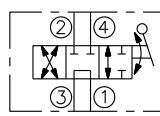
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47C	240 (3500)	11 (3)

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



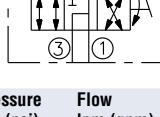
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47D	240 (3500)	11 (3)

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



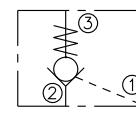
Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47F	240 (3500)	11 (3)

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



Model	Pressure bar (psi)	Flow lpm (gpm)
MR10-47G	240 (3500)	11 (3)
MV06-20	240 (3500)	115 (30)

**Check, pilot to open  
see catalog for pilot ratio**

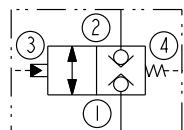


Model	Pressure bar (psi)	Flow lpm (gpm)
PC08-30	240 (3500)	26 (7)
HPC08-30	350 (5075)	30 (8)
PC10-30	240 (3500)	26 (7)
PC10-32	240 (3500)	30 (8)

# DIRECTIONAL VALVES



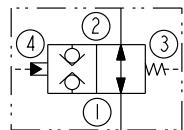
Piloted directional element, balanced poppet, bidirectional, normally closed



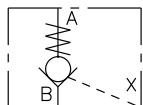
Model  
HPC42-J48

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

Piloted directional element, balanced poppet, bidirectional, normally open



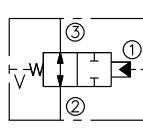
Check, pilot to open



Model

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

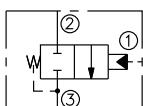
Spool valve, piloted, 2-position, 2-way, normally open, external vent



Model

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

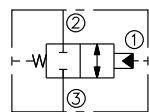
Spool valve, piloted, 2-position, 2-way, normally closed, internal vent



Model

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

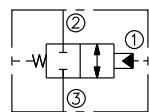
Spool valve, piloted, 2-position, 2-way, normally closed, external vent



Model

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

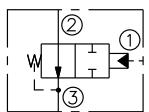
Spool valve, piloted, 2-position, 3-way, internal vent, open transition



Model

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

Spool valve, piloted, 2-position, normally closed



Model

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

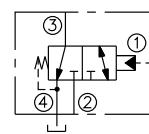
Spool valve, piloted, 2-position, normally open



Model

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

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



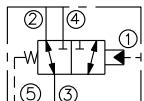
Model

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

# DIRECTIONAL VALVES

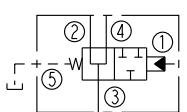


**Spool valve, piloted,  
2-position, 3-way, open  
transition**



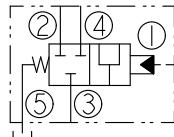
Model	Pressure bar (psi)	Flow lpm (gpm)
PD12-S50	240 (3500)	95 (25)
HPD16-S50	350 (5075)	151 (40)
PD16-S50	240 (3500)	170 (45)
PD42-S50	345 (5000)	265 (70)
HPD42-S50	350 (5075)	265 (70)

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



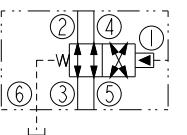
Model	Pressure bar (psi)	Flow lpm (gpm)
PD10-51	240 (3500)	45 (12)
HPD16-S51	350 (5075)	151 (40)
PD16-S51	240 (3500)	151 (40)
HPD42-S51	240 (3500)	246 (65)

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



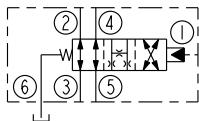
Model	Pressure bar (psi)	Flow lpm (gpm)
HPD16-S52	350 (5075)	151 (40)
HPD42-S52	350 (5075)	265 (70)

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

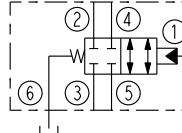


Model	Pressure bar (psi)	Flow lpm (gpm)
HPD16-S60	350 (5075)	95 (25)
HPD42-S60	350 (5075)	189 (50)

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



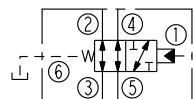
**Spool valve, piloted,  
2-position, 4-way**



**Model**

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

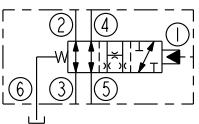
**Spool valve, piloted,  
2-position, 4-way**



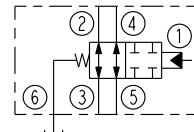
**Model**

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

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



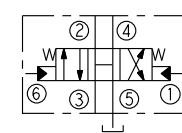
**Spool valve, piloted,  
2-position, 4-way**



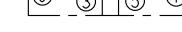
**Model**

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

**Spool valve, piloted,  
2-position, 4-way, open  
center**

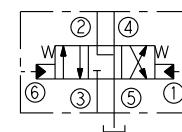


**Spool valve, piloted,  
3-position, 4-way,  
closed center**



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

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



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

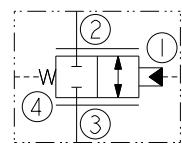
**Spool valve, piloted,  
3-position, 4-way,  
closed center**

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

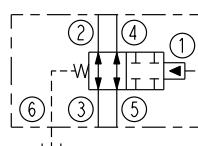
# FLOW CONTROL VALVES



Piloted proportional spool valve, normally closed

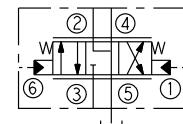


Spool valve, piloted, proportional, 4-way

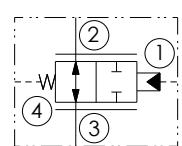


Spool valve, piloted, proportional, 3-position, 4-way, motor center

US Pat. 6,554,014

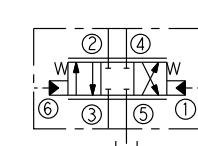


Piloted proportional spool valve, normally open

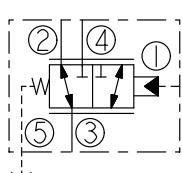


Spool valve, piloted, proportional, 3-position, 4-way, closed center

US Pat. 6,554,014



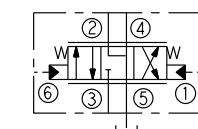
Spool valve, piloted, proportional, 3-way



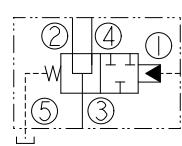
Model	Pressure bar (psi)	Flow lpm (gpm)
HPE16-45	350 (5075)	95 (25)
HPE42-M45	350 (5075)	170 (45)

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

US Pat. 6,554,014



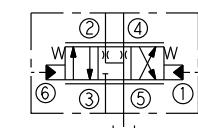
Spool valve, piloted, proportional, 3-way



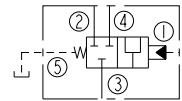
Model	Pressure bar (psi)	Flow lpm (gpm)
HPE42-S50	350 (5075)	170 (45)

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

US Pat. 6,554,014



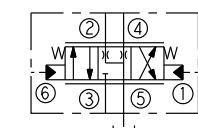
Spool valve, piloted, proportional, 3-way



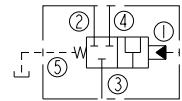
Model	Pressure bar (psi)	Flow lpm (gpm)
HPE42-S51	350 (5075)	170 (45)

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

US Pat. 6,554,014



Spool valve, piloted, proportional, 3-way



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

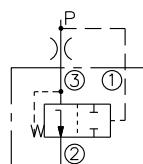
Model	Pressure bar (psi)	Flow lpm (gpm)
PE12-S67H	345 (5000)	45 (12)
HPE16-S67H	350 (5075)	95 (25)
PE16-S67H	345 (5000)	90 (24)
PE42-S67H	345 (5000)	170 (45)
HPE42-S67H	350 (5075)	170 (45)



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

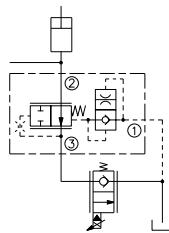
## Flow Control Valves

Pressure compensator

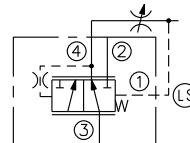


Model	Pressure bar (psi)	Flow lpm (gpm)
EC10-30	207 (3000)	30 (8)
EC12-30	240 (3500)	58 (15)
EC50-30	345 (5000)	30 (8)

Pressure compensator



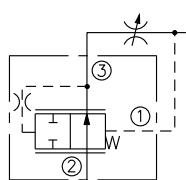
Pressure compensator with static load sense



Model

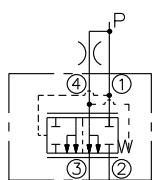
Model	Pressure bar (psi)	Flow lpm (gpm)
EC10-42	240 (3500)	38 (10)
EC50-42	345 (5000)	38 (10)
EC12-42	345 (5000)	76 (20)
HEC12-42	350 (5075)	95 (25)
EC42-M42	240 (3500)	303 (80)
EC16-42	240 (3500)	190 (50)
EC56-42	345 (5000)	150 (40)

Pressure compensator

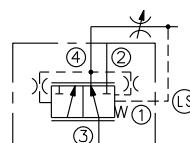


Model	Pressure bar (psi)	Flow lpm (gpm)
EC08-32	240 (3500)	11 (3)
EC10-32	207 (3000)	38 (10)
EC12-32	240 (3500)	57 (15)
HEC12-32	350 (5075)	83 (22)
EC16-32	240 (3500)	152 (40)
HEC16-32	350 (5075)	151 (40)

Pressure compensator, bypass type



Pressure compensator with dynamic load sense



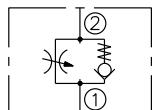
Model

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

# PRESSURE CONTROL VALVES

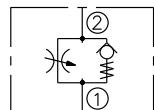


Flow control with reverse flow check



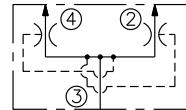
Model	Pressure bar (psi)	Flow lpm (gpm)
FC10-20	240 (3500)	45 (12)
FC12-20	240 (3500)	129 (34)
FC08-20F	240 (3500)	45 (12)

Flow control with reverse flow check



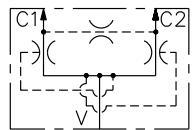
Model	Pressure bar (psi)	Flow lpm (gpm)
FC10-21	240 (3500)	57 (15)

Flow divider/combiner



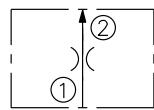
Model	Pressure bar (psi)	Flow lpm (gpm)
FD50-45	345 (5000)	57 (15)
FD52-45	345 (5000)	106 (28)
FD56-45	345 (5000)	197 (52)

Flow divider/combiner, cartridge in manifold



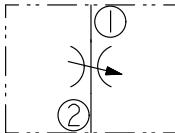
Model	Pressure bar (psi)	Flow lpm (gpm)
FDC16	207 (3000)	151 (40)

Flow regulator, pressure compensated

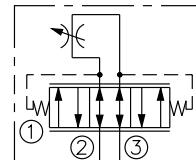


Model	Pressure bar (psi)	Flow lpm (gpm)
FR04-20F	240 (3500)	3 (0.8)
FR08-20F	240 (3500)	8 (2)
FR10-20F	240 (3500)	23 (6)
FR50-20F	345 (5000)	23 (6)
FR12-20F	345 (5000)	55 (15)
FR16-20F	240 (3500)	113 (30)

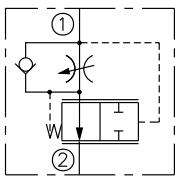
Manual rotary flow control



Flow regulator, pressure compensated, with adjustable orifice

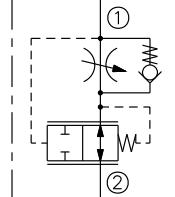


Flow regulator, pressure compensated



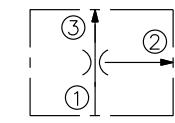
Model	Pressure bar (psi)	Flow lpm (gpm)
FR12-23	240 (3500)	77 (20)

Flow regulator, pressure compensated



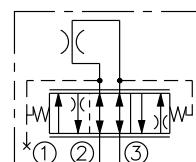
Model	Pressure bar (psi)	Flow lpm (gpm)
FR50-23	345 (5000)	12 (3)
FR50-28	345 (5000)	34 (9)

Flow regulator, pressure compensated, priority bypass type

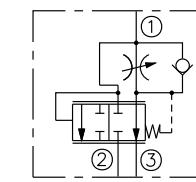


Model	Pressure bar (psi)	Flow lpm (gpm)
FR08-30F	207 (3000)	11 (3)
FR10-30F	207 (3000)	38 (10)
FR12-30F	240 (3500)	95 (25)
FR16-30F	240 (3500)	113 (30)

Flow regulator, pressure compensated, fixed orifice



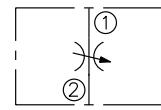
Flow regulator, pressure compensated, with adjustable orifice



Flow regulator, pressure compensated, bypass type, with adjustable orifice

Model	Pressure bar (psi)	Flow lpm (gpm)
FR10-32F	240 (3500)	19 (5)
HFR10-32F	350 (5075)	19 (5)

Needle valve

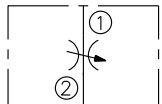


Model	Pressure bar (psi)	Flow lpm (gpm)
FR10-33	240 (3500)	26 (7)
FR12-33	240 (3500)	114 (30)
FR10-39	240 (3500)	57 (15)

## PRESSURE CONTROL VALVES

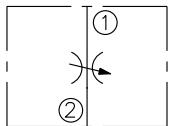


Needle valve, positive shut-off



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

Needle valve, fine adjustment



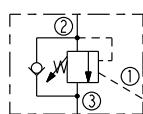
Model	Pressure bar (psi)	Flow lpm (gpm)
NV08-23	240 (3500)	38 (10)



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

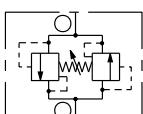
## Pressure Control Valves

Counterbalance valve



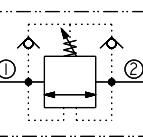
Model	Pressure bar (psi)	Flow lpm (gpm)
CB10-30	207 (3000)	19 (5)

Relief valve, bidirectional



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

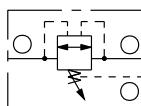
Relief valve, bidirectional



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

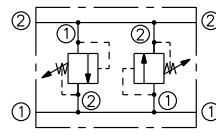
Relief valve, bidirectional, vented

US Pat. 7,069,945



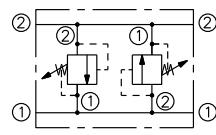
Model	Pressure bar (psi)	Flow lpm (gpm)
CR08-38	207 (3000)	30 (8)

Crossover relief valve, direct acting, dual cartridges in manifold



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

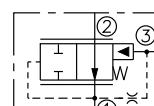
Crossover relief valve, differential area, dual cartridges in manifold



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

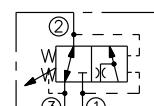
Logic element, spool type, pressure reducing

US Pat. 7,069,945



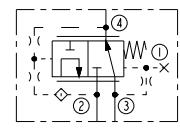
Model	Pressure bar (psi)	Flow lpm (gpm)
ER10-S30	345 (5000)	68 (18)
ER12-S30	345 (5000)	114 (30)

Kickdown sequence valve, internal pilot/drain



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

Torque divider

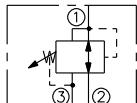


Model	Pressure bar (psi)	Flow lpm (gpm)
HTD10-40	350 (5075)	57 (15)

# PRESSURE CONTROL VALVES

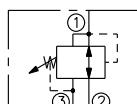


**Pressure reducing/  
relieving valve**



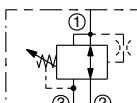
Model	Pressure bar (psi)	Flow lpm (gpm)
PR08-32	240 (3500)	11 (3)
PR10-32	207 (3000)	30 (8)

**Pressure reducing/  
relieving valve, pilot  
operated**



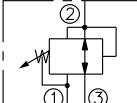
Model	Pressure bar (psi)	Flow lpm (gpm)
PR10-36	240 (3500)	56 (15)
PR50-36	345 (5000)	56 (15)
PR12-36	275 (4000)	189 (50)

**Pressure reducing/  
relieving valve, direct  
acting**



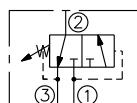
Model	Pressure bar (psi)	Flow lpm (gpm)
PR58-38	345 (5000)	19 (5)
PR50-38	345 (5000)	72 (19)

**Pressure reducing/  
relieving valve**



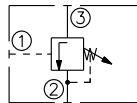
Model	Pressure bar (psi)	Flow lpm (gpm)
PRES50-30	345 (5000)	11 (3)

**Sequence valve with  
internal pilot and drain**



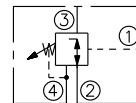
Model	Pressure bar (psi)	Flow lpm (gpm)
PS08-30	240 (3500)	22 (6)
PS10-30	207 (3000)	38 (10)
PS10-31	240 (3500)	22 (6)

**Sequence valve with  
external pilot, internal  
drain**



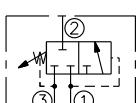
Model	Pressure bar (psi)	Flow lpm (gpm)
PS08-32	240 (3500)	19 (5)
PS10-32	207 (3000)	38 (10)
PS10-33	240 (3500)	23 (6)

**Sequence valve, 3-way,  
external pilot and drain**



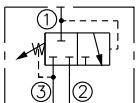
Model	Pressure bar (psi)	Flow lpm (gpm)
PS10-43	240 (3500)	38 (10)
PS50-43	414 (6000)	38 (10)

**Sequence valve with  
internal pilot and drain**



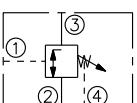
Model	Pressure bar (psi)	Flow lpm (gpm)
PS10-34	207 (3000)	117 (31)

**Sequence valve with  
internal pilot, external  
drain**



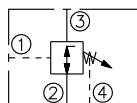
Model	Pressure bar (psi)	Flow lpm (gpm)
PS10-36	240 (3500)	56 (15)
PS50-36	331 (4800)	56 (15)

**Sequence valve,  
normally closed with  
external pilot and drain**



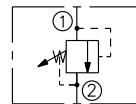
Model	Pressure bar (psi)	Flow lpm (gpm)
PS10-40	240 (3500)	38 (10)
PS50-40	345 (5000)	38 (10)

**Sequence valve,  
normally open with  
external pilot and drain**



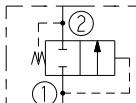
Model	Pressure bar (psi)	Flow lpm (gpm)
PS10-41	240 (3500)	38 (10)

**Relief valve, direct  
acting, poppet type**



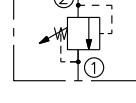
Model	Pressure bar (psi)	Flow lpm (gpm)
RV08-20	275 (4000)	23 (6)
RV58-20	345 (5000)	22 (6)
RV10-20	228 (3300)	38 (10)

**Relief valve, pressure  
regulating, spool type**



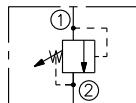
Model	Pressure bar (psi)	Flow lpm (gpm)
RV10-21F	228 (3300)	25 (7)

**Relief valve,  
differential area,  
poppet type**



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

**Relief valve, pilot  
operated, spool type**



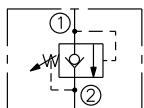
Model	Pressure bar (psi)	Flow lpm (gpm)
RV10-26	240 (3500)	114 (30)
RV50-26	345 (5000)	114 (30)
RV12-26	240 (3500)	170 (45)
RV16-26	275 (4000)	303 (80)
RV52-26	345 (5000)	170 (45)
RV56-26	345 (5000)	379 (100)

# PRESSURE CONTROL VALVES

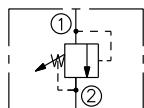


**Relief valve, pilot operated with reverse-flow check**

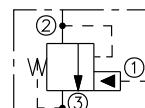
U.S. Pats. 7,069,945  
7,069,945



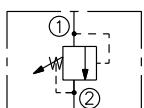
**Relief valve, direct acting, poppet type**



**Unloading pilot, internal drain**



**Relief valve, direct acting, poppet type, low flow**

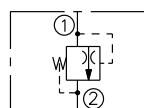


Model  
RV08-29

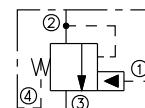
Pressure bar (psi)  
240 (3500)

Flow lpm (gpm)  
1.9 (0.5)

**Thermal relief valve, poppet type**



**Remote sequence valve, unloading pilot**



Model  
TR04-B20

Pressure bar (psi)  
414 (6000)

Flow lpm (gpm)  
no rating

Model  
UP10-31

Pressure bar (psi)  
207 (3000)

Flow lpm (gpm)  
4 (1)

Model  
UP10-40

Pressure bar (psi)  
207 (3000)

Flow lpm (gpm)  
4 (1)

## Accessories

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

### Valve Housings

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

### Custom Manifold Accessories

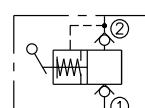
A full line of manifold accessories are available from stock including: cavity plugs, orifice discs, port plugs, orifice plugs, pilot pistons, screen cartridges, as well as cavity form tools and finishing tools.

### Hand Pumps

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

### Hand Pumps

**Hand pump**  
see catalog for operating force requirements



Model	Pressure bar (psi)	Disp. cm³ (in³)
HP10-20	207 (3000)	1.36 (0.083)
HP10-21	207 (3000)	10.6 (0.65)
HP16-21	207 (3000)	21.3 (1.3)

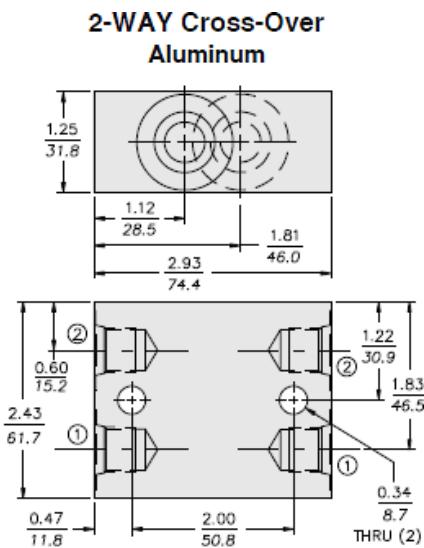
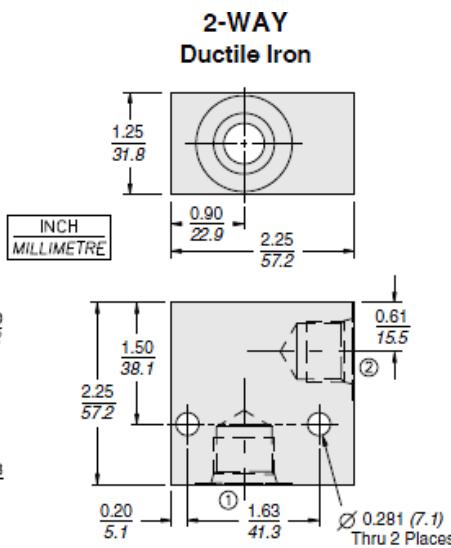
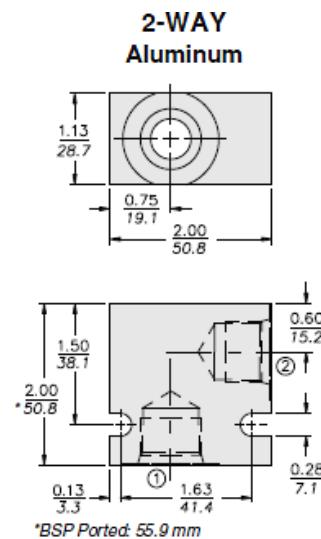


## Ratings

### Symbol

Pressure rating	207 bar (3000 psi) - <b>Note:</b> Aluminum 345 bar (5000 psi) - <b>Note:</b> Ductile iron
Material	6061-T6511 - <b>Note:</b> Aluminum Dura-bar - <b>Note:</b> Ductile iron

## Dimensions



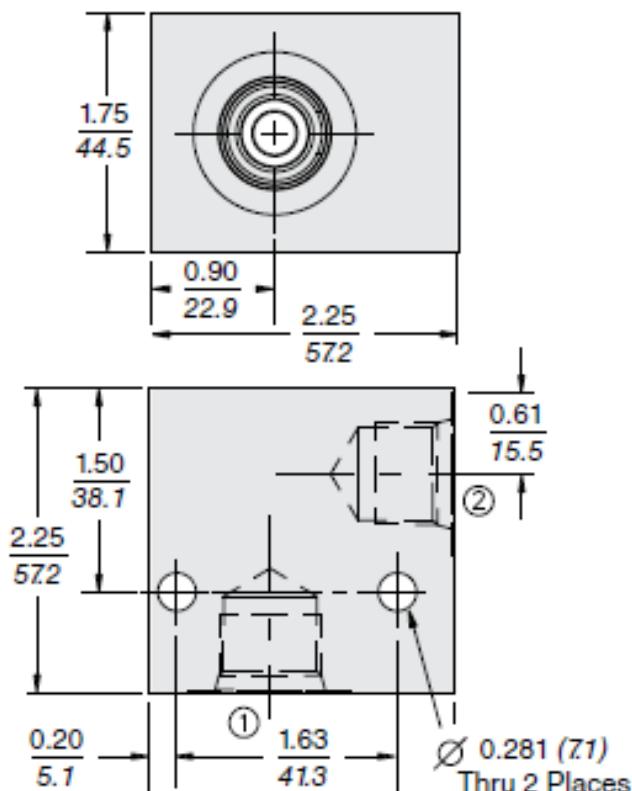
SAE 8 Ported Housing shown

SAE 8 Ported Housing shown

7070160 CRV Housing

## 2-WAY H-Series

### Ductile Iron



**SAE 8 Ported Housing shown**

#### Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7028620	2B	Aluminum	1/4" BSP	1/4" BSP					U.K.	
7028230	3B	Aluminum	3/8" BSP	3/8" BSP					U.K.	
7024640	4T	Aluminum	SAE 4	SAE 4					U.S.	
7024660	6T	Aluminum	SAE 6	SAE 6					U.S.	
7070160	6T	Aluminum	SAE 6 (2)	SAE 6 (2)					U.S.	
7024680	8T	Aluminum	SAE 8	SAE 8					U.S.	
7151050	3BD	Ductile iron	3/8" BSP	3/8" BSP					U.K.	
7151010	6TD	Ductile iron	SAE 6	SAE 6					U.S.	
7151020	8TD	Ductile iron	SAE 8	SAE 8					U.S.	



## Ratings

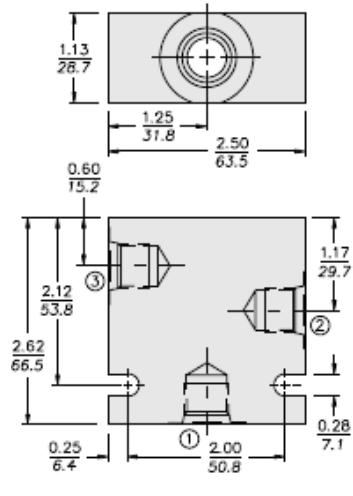
### Symbol

Pressure rating  
 207 bar (3000 psi) - Note: Aluminum  
 345 bar (5000 psi) - Note: Ductile iron

Material  
 6061-T6511 - Note: Aluminum  
 Dura-bar - Note: Ductile iron

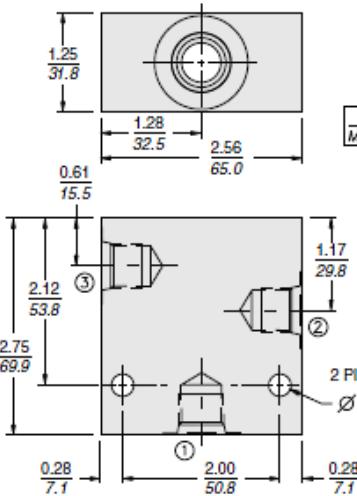
## Dimensions

### 3-WAY Aluminum



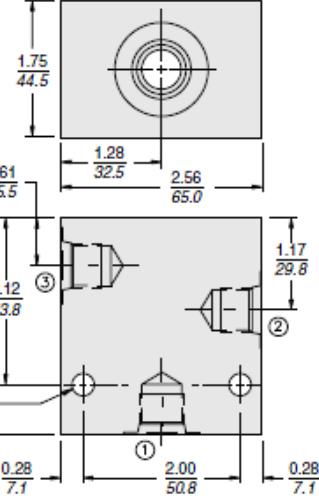
SAE 6 Ported Housing shown

### 3-WAY Ductile Iron



SAE 6 Ported Housing shown

### 3-WAY Ductile Iron, H-Series



SAE 6 Ported Housing shown

## Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7028730	3B	Aluminum	3/8" BSP	3/8" BSP	3/8" BSP				U.K.	
7024740	4T	Aluminum	SAE 4	SAE 4	SAE 4				U.S.	
7024760	6T	Aluminum	SAE 6	SAE 6	SAE 6				U.S.	
7151150	3BD	Ductile iron	3/8" BSP	3/8" BSP	3/8" BSP				U.K.	
7151110	6TD	Ductile iron	SAE 6	SAE 6	SAE 6				U.S.	
7160120	8HT	Ductile iron	SAE 8	SAE 8	SAE 8				U.S.	
7151120	8TD	Ductile iron	SAE 8	SAE 8	SAE 8				U.S.	



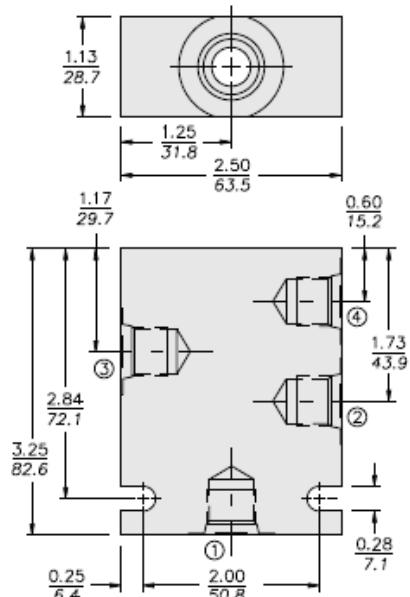
### Ratings

#### Symbol

Pressure rating	207 bar (3000 psi) - <b>Note:</b> Aluminum 345 bar (5000 psi) - <b>Note:</b> Ductile iron
Material	6061-T6511 - <b>Note:</b> Aluminum Dura-bar - <b>Note:</b> Ductile iron

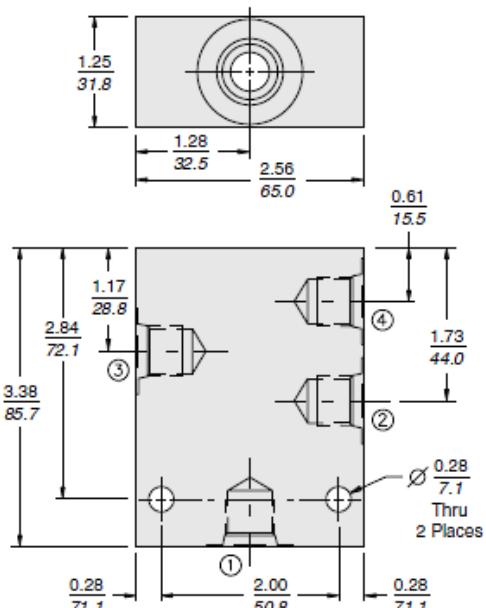
### Dimensions

**4-WAY**  
**Aluminum**



SAE 6 Ported Housing shown

**4-WAY**  
**Ductile Iron**



SAE 6 Ported Housing shown

### Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7028830	3B	Aluminum	3/8" BSP	3/8" BSP	3/8" BSP	3/8" BSP			U.K.	
7024860	6T	Aluminum	SAE 6	SAE 6	SAE 6	SAE 6			U.S.	
7151250	3BD	Ductile iron	3/8" BSP	3/8" BSP	3/8" BSP	3/8" BSP			U.K.	
7151210	6TD	Ductile iron	SAE 6	SAE 6	SAE 6	SAE 6			U.S.	



## Ratings

### Pressure rating

207 bar (3000 psi) - **Note:** Aluminum

345 bar (5000 psi) - **Note:** Ductile iron

### Symbol

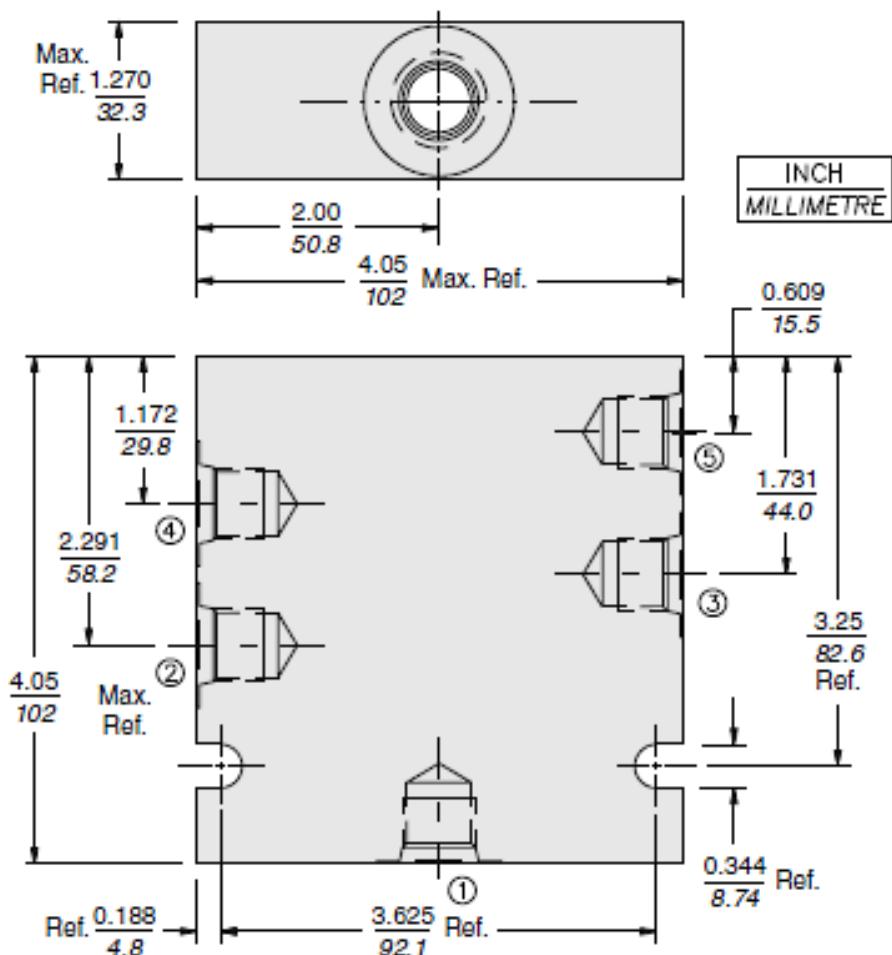
### Material

6061-T6511 - **Note:** Aluminum

Dura-bar - **Note:** Ductile iron

## Dimensions

### 5-WAY Aluminum



SAE 6 Ported Housing Shown

## Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7025860	6T	Aluminum	SAE 6	SAE 6	SAE 6	SAE 6			U.S.	



### Ratings

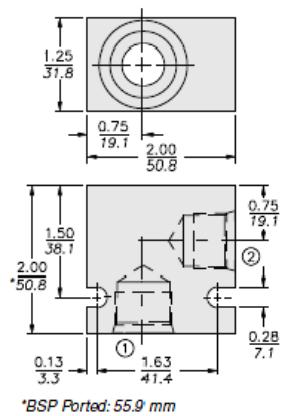
Pressure rating  
 207 bar (3000 psi) - Note: Aluminum  
 345 bar (5000 psi) - Note: Ductile iron

### Symbol

Material  
 6061-T6511 - Note: Aluminum  
 Dura-bar - Note: Ductile iron

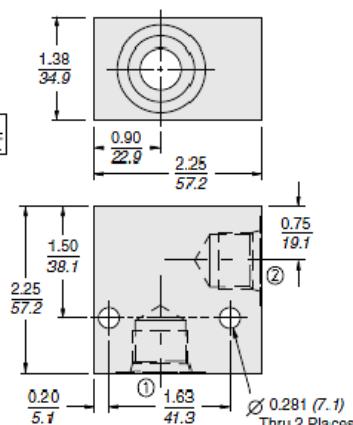
### Dimensions

**2-WAY  
Aluminum**



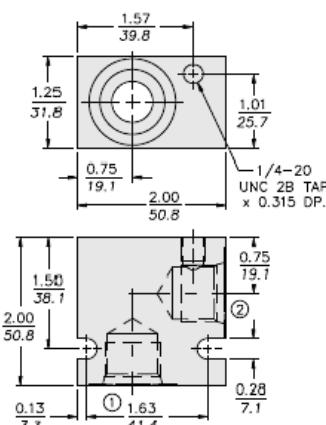
SAE 8 Ported Housing shown

**2-WAY  
Ductile Iron**



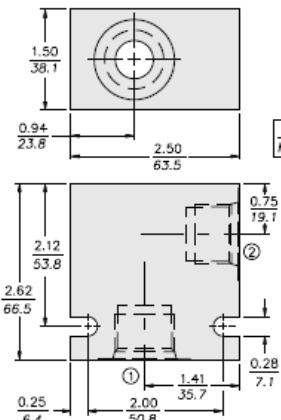
SAE 8 Ported Housing shown

**2-WAY MR  
Aluminum**

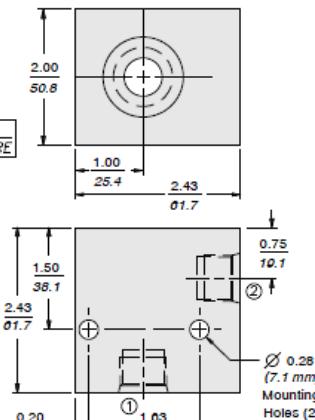


7026180 – MR  
For Lock-Down Bracket Use

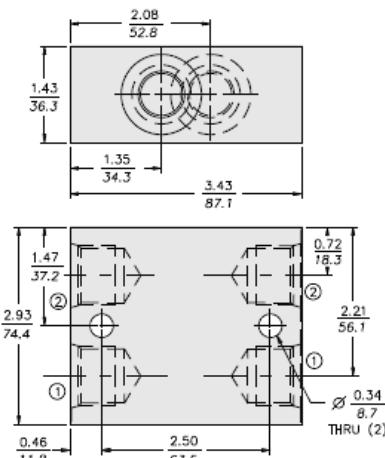
**2-WAY with Oversized Ports  
Aluminum**



**2-WAY  
Ductile Iron - H-Series**

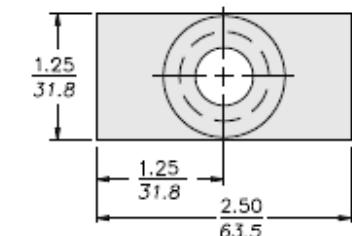


**2-WAY Cross-Over  
Aluminum**

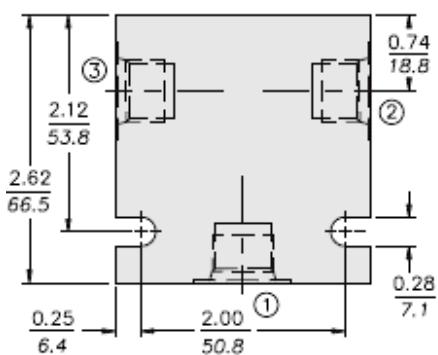




### 2-WAY Thru-Ported Aluminum

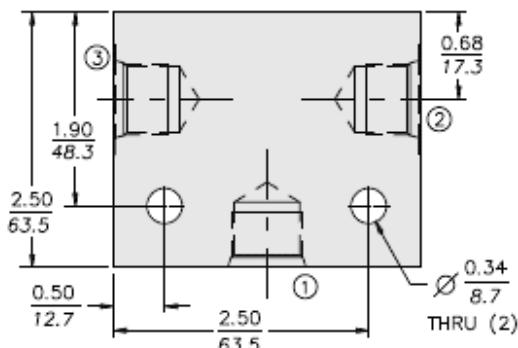
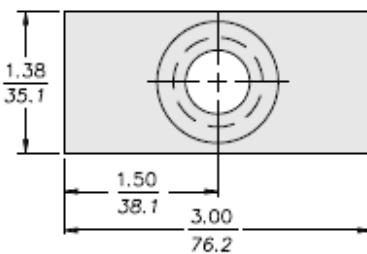


INCH  
MILLIMETRE



7025660 & 7025680

### 2-WAY Thru-Ported with Oversized Ports Aluminum



7027080 shown

### Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7028220	2B	Aluminum	1/4" BSP	1/4" BSP					U.K.	
7028230	3B	Aluminum	3/8" BSP	3/8" BSP					U.K.	
7028240	4B	Aluminum	1/2" BSP	1/2" BSP					U.K.	
7024260	6T	Aluminum	SAE 6	SAE 6					U.S.	
7024280	8T	Aluminum	SAE 8	SAE 8					U.S.	
7026180	8TL	Aluminum	SAE 8	SAE 8					U.S.	
7151450	4BD	Ductile iron	1/2" BSP	1/2" BSP					U.K.	
7151400	6TD	Ductile iron	SAE 6	SAE 6					U.S.	
7151410	8TD	Ductile iron	SAE 8	SAE 8					U.S.	

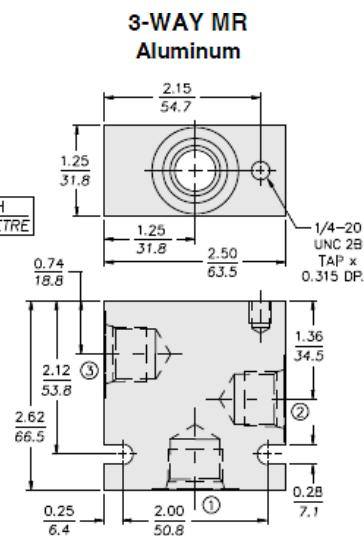
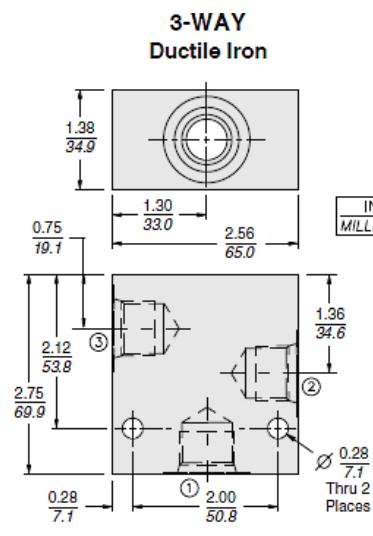
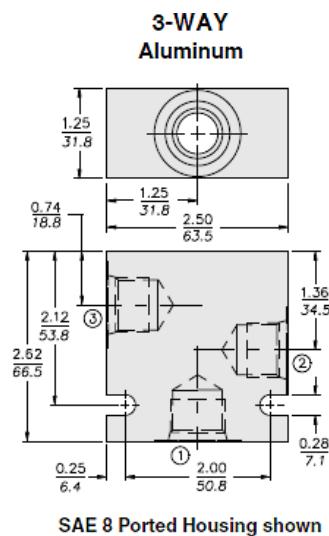
## Ratings

Pressure rating  
 207 bar (3000 psi) - **Note:** Aluminum  
 345 bar (5000 psi) - **Note:** Ductile iron

## Symbol

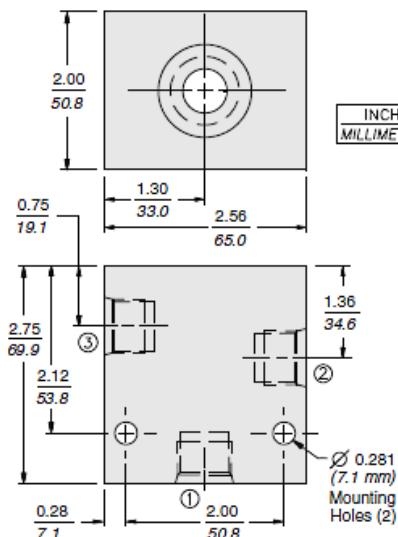
Material  
 6061-T6511 - **Note:** Aluminum  
 Dura-bar - **Note:** Ductile iron

## Dimensions

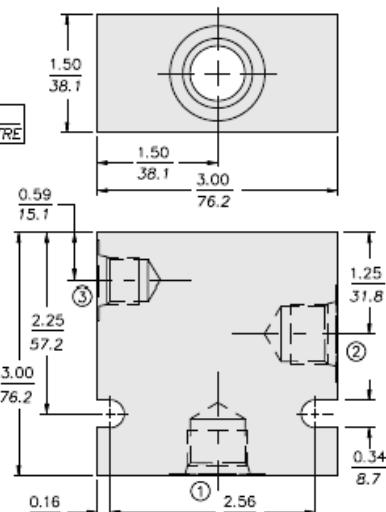




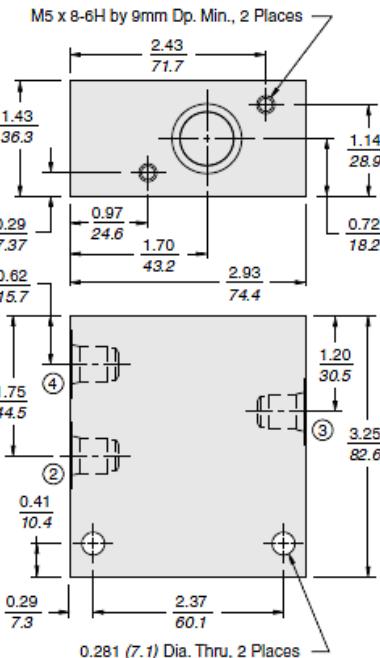
**3-WAY  
Ductile Iron, H-Series**



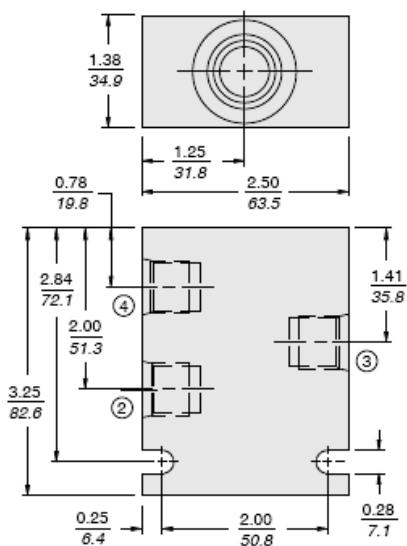
**3-WAY Short  
Aluminum or Ductile Iron**



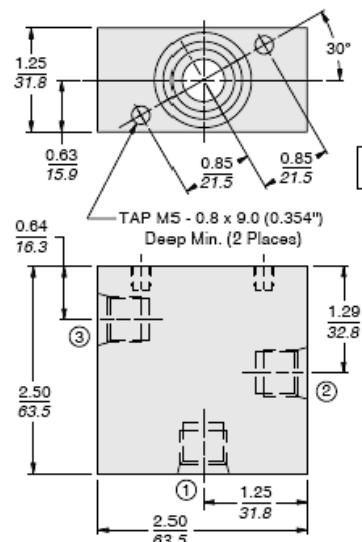
**3-WAY TS98-T3x Drop-In  
Aluminum**



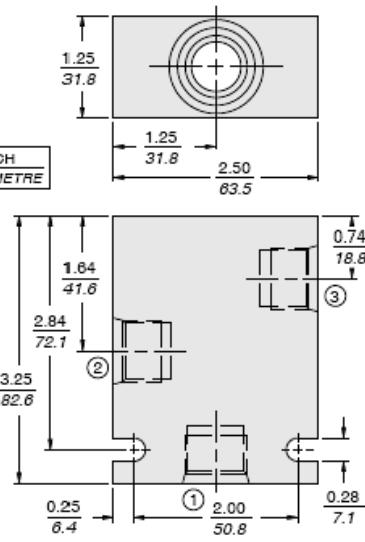
**3-WAY TS98-3x  
Aluminum**



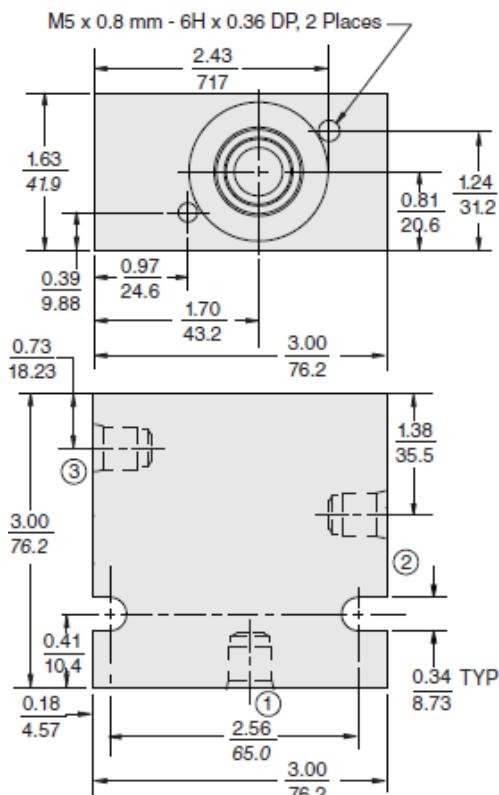
**3-WAY 98-T3  
Aluminum**



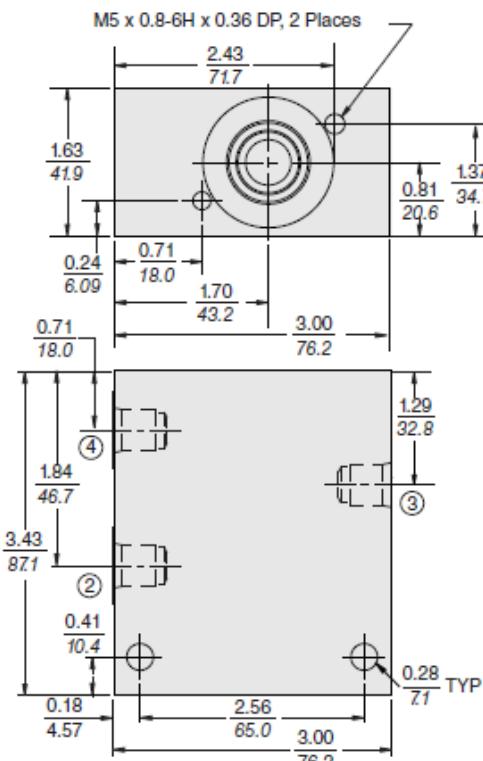
**3-WAY 10-L3  
Aluminum**



## 3-WAY 90-G3 Drop-In Aluminum



## 3-WAY TS90-G3 Drop-In Aluminum



## Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7028330	3B	Aluminum	3/8" BSP	3/8" BSP	3/8" BSP				U.K.	
7024360	6T	Aluminum	SAE 6	SAE 6	SAE 6				U.S.	
7024380	8T	Aluminum	SAE 8	SAE 8	SAE 8				U.S.	
7020980	8TL	Aluminum	SAE 8	SAE 8	SAE 8				U.S.	Drilled and tapped for lockdown bracket
7151540	3BD	Ductile iron	3/8" BSP	3/8" BSP	3/8" BSP				U.K.	
7151500	6TD	Ductile iron	SAE 6	SAE 6	SAE 6				U.S.	
7151510	8TD	Ductile iron	SAE 8	SAE 8	SAE 8				U.S.	



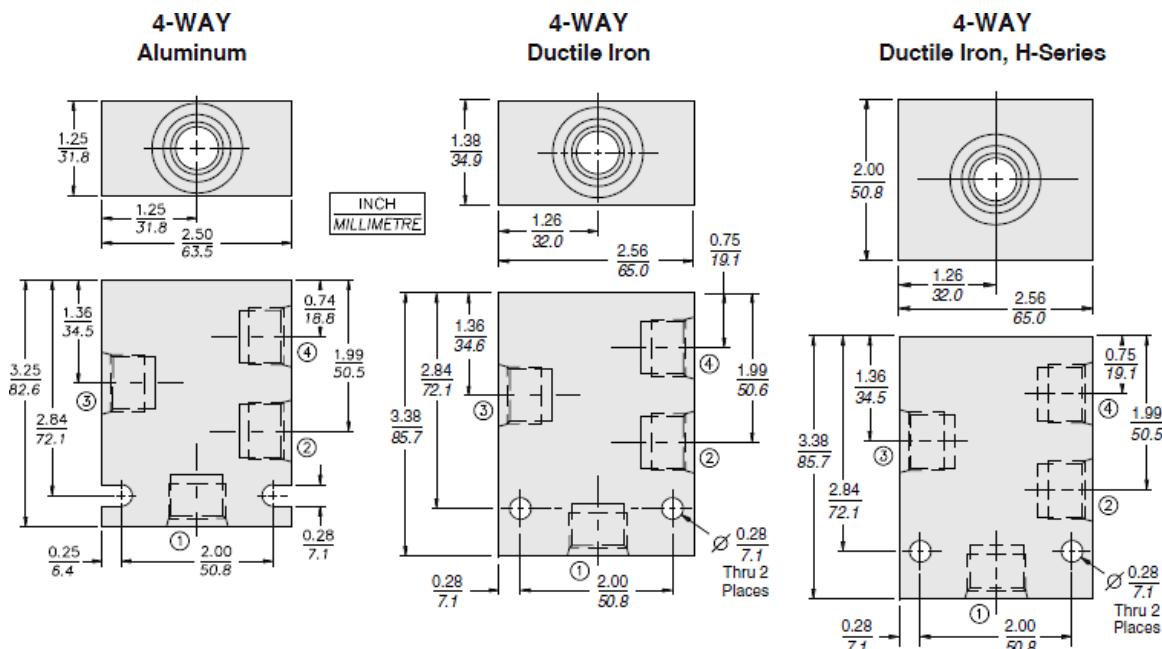
### Ratings

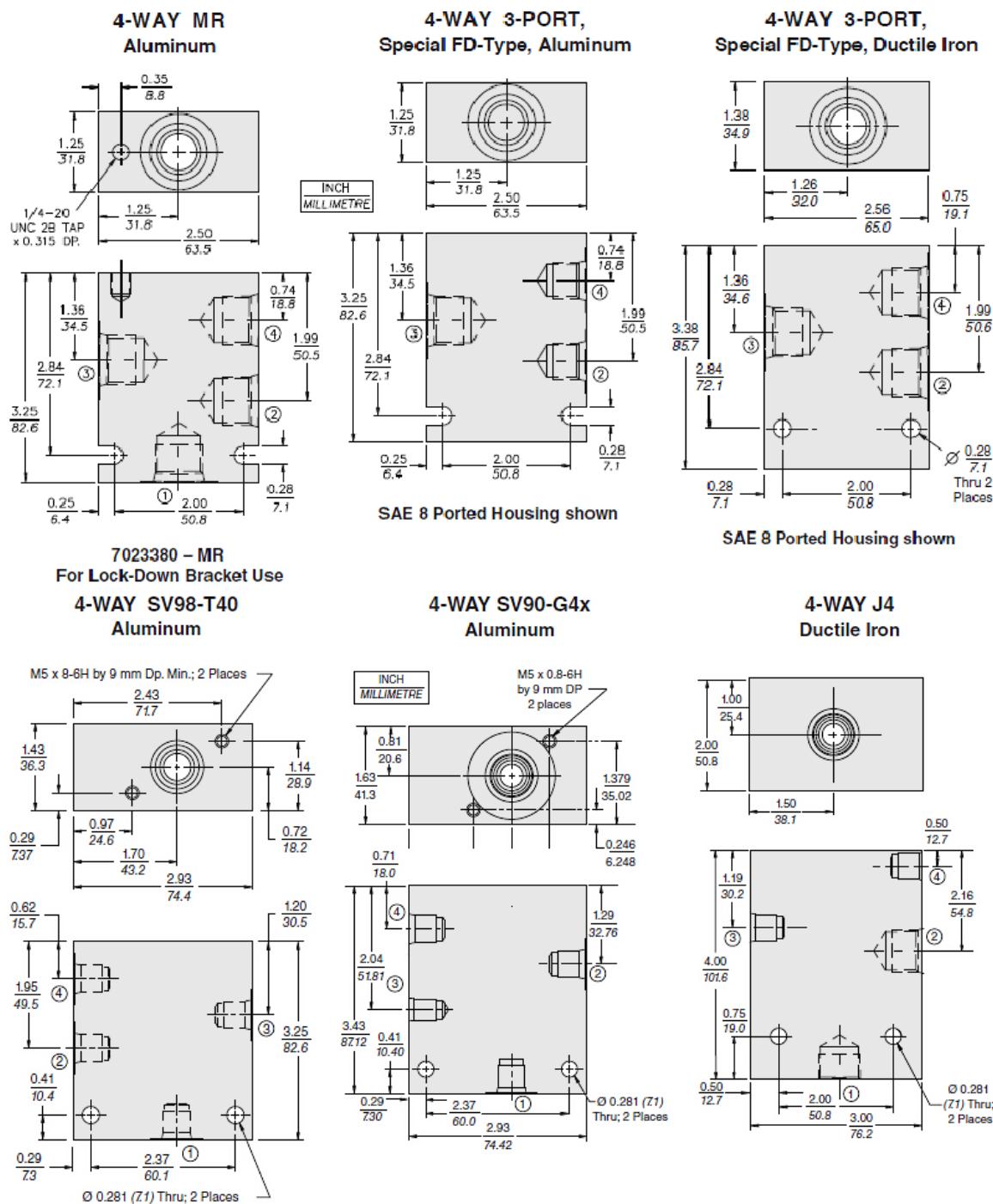
Pressure rating  
 207 bar (3000 psi) - Note: Aluminum  
 345 bar (5000 psi) - Note: Ductile iron

### Symbol

Material  
 6061-T6511 - Note: Aluminum  
 Dura-bar - Note: Ductile iron

### Dimensions





### Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7024460	6T	Aluminum	SAE 6	SAE 6	SAE 6	SAE 6			U.S.	
7024480	8T	Aluminum	SAE 8	SAE 8	SAE 8	SAE 8			U.S.	
7151700	6TD	Ductile iron	SAE 6	SAE 6	SAE 6	SAE 6			U.S.	
7158310	8HT	Ductile iron	SAE 8	SAE 8	SAE 8	SAE 8			U.S.	



## Ratings

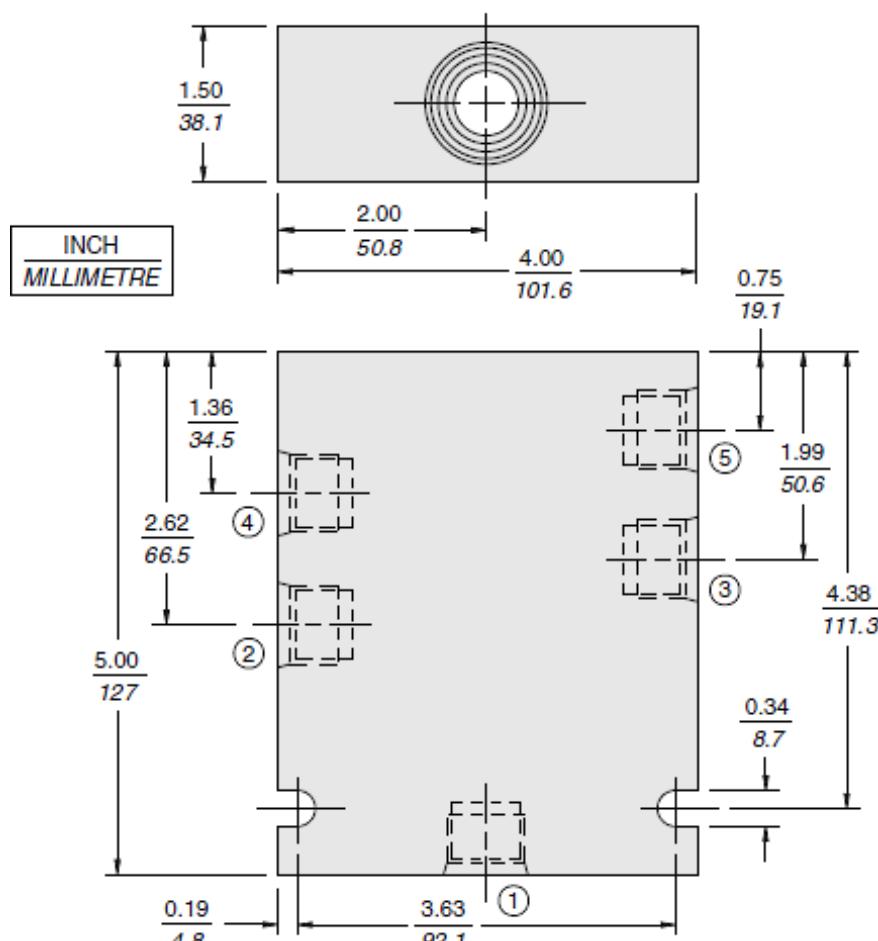
Pressure rating	207 bar (3000 psi) - Note: Aluminum 345 bar (5000 psi) - Note: Ductile iron
-----------------	--

## Symbol

Material	6061-T6511 - Note: Aluminum Dura-bar - Note: Ductile iron
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## Dimensions

### 5-WAY Aluminum



## Part Numbers

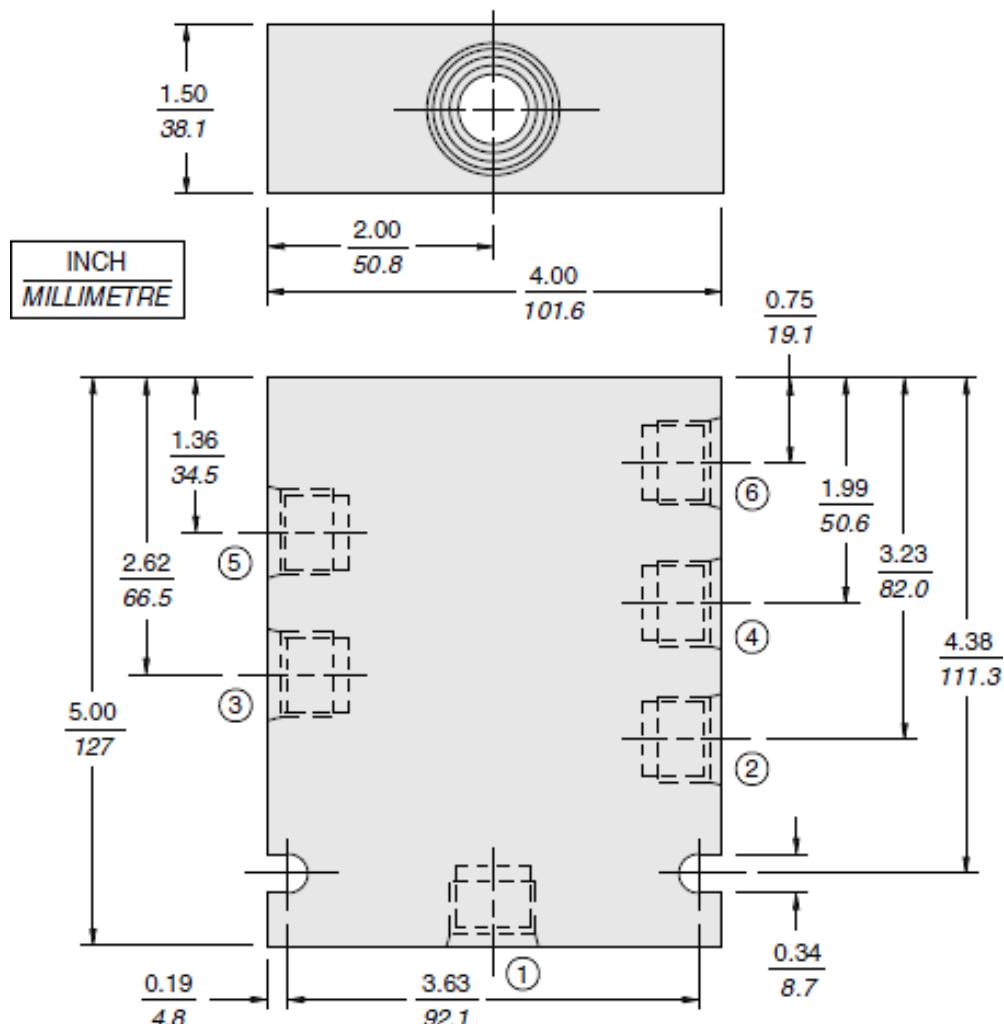
Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7022820	6T	Aluminum	SAE 6		U.S.					
7022830	8T	Aluminum	SAE 8		U.S.					

**Ratings**

Pressure rating      207 bar (3000 psi) - **Note:** Aluminum  
                           345 bar (5000 psi) - **Note:** Ductile iron

**Symbol**

Material      6061-T6511 - **Note:** Aluminum  
                   Dura-bar - **Note:** Ductile iron

**Dimensions****6-WAY  
Aluminum****Part Numbers**

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
4553010	6T	Aluminum	SAE 6	U.S.						



### Ratings

#### Symbol

Pressure rating

207 bar (3000 psi) - Note: Aluminum

345 bar (5000 psi) - Note: Ductile iron

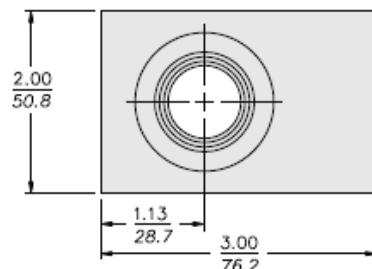
Material

6061-T6511 - Note: Aluminum

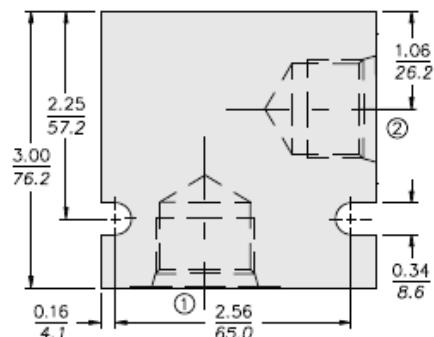
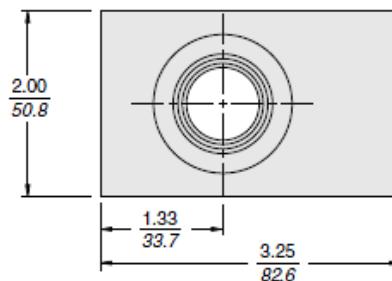
Dura-bar - Note: Ductile iron

### Dimensions

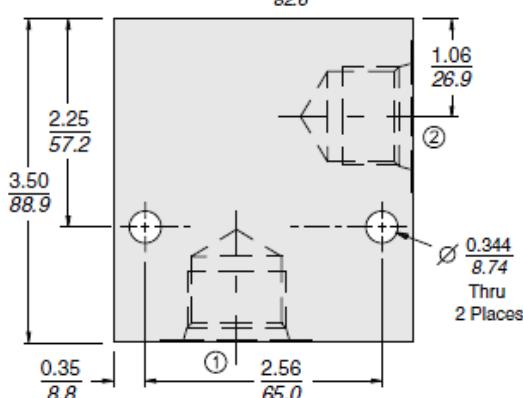
**2-WAY  
Aluminum**



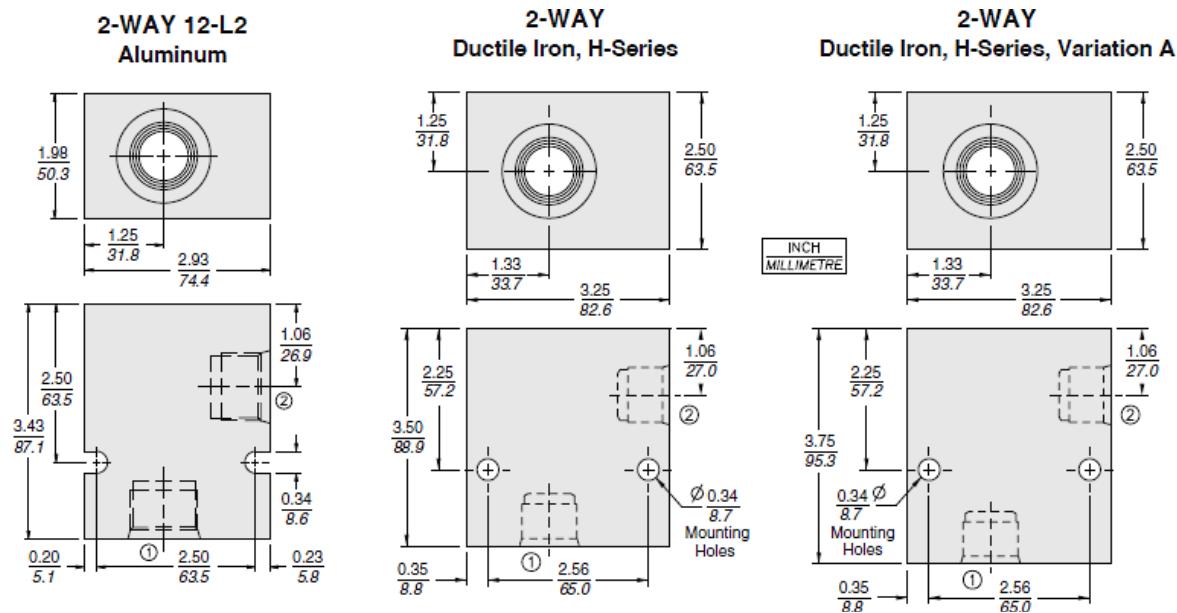
**2-WAY  
Ductile Iron**



SAE 12 Ported Housing shown



SAE 12 Ported Housing shown



### Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7020650	08T	Aluminum	SAE 08	SAE 08					U.S.	Designed for use with PV72-20, PV72- 21, and FR12-23 valves
7022240	10T	Aluminum	SAE 10	SAE 10					U.S.	
7020660	10T	Aluminum	SAE 10	SAE 10					U.S.	Designed for use with PV72-20, PV72- 21, and FR12-23 valves
7022250	12T	Aluminum	SAE 12	SAE 12					U.S.	
7020670	12T	Aluminum	SAE 12	SAE 12					U.S.	Designed for use with PV72-20, PV72- 21, and FR12-23 valves
7022260	16T	Aluminum	SAE 16	SAE 16					U.S.	
7022530	8B	Aluminum	1" BSP	1" BSP					U.K.	
7158410	12HT	Ductile iron	SAE 12	SAE 12					U.S.	
7160020	12HT	Ductile iron	SAE 12	SAE 12					U.S.	Designed for use with HPV12-20 and HPV12-21 valves
7155010	12TD	Ductile iron	SAE 12	SAE 12					U.S.	
7155020	16TD	Ductile iron	SAE 16	SAE 16					U.S.	
7155060	8BD	Ductile iron	1" BSP	1" BSP					U.K.	



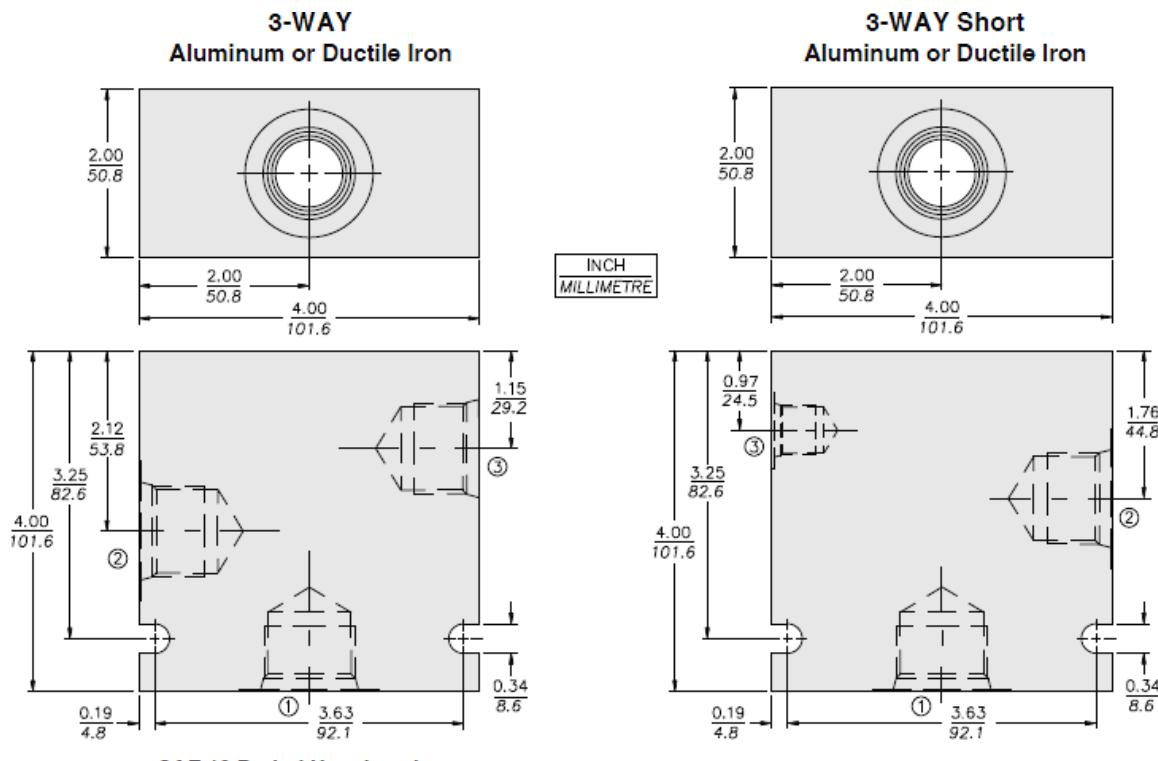
## Ratings

Pressure rating	207 bar (3000 psi) - <b>Note:</b> Aluminum
	345 bar (5000 psi) - <b>Note:</b> Ductile iron

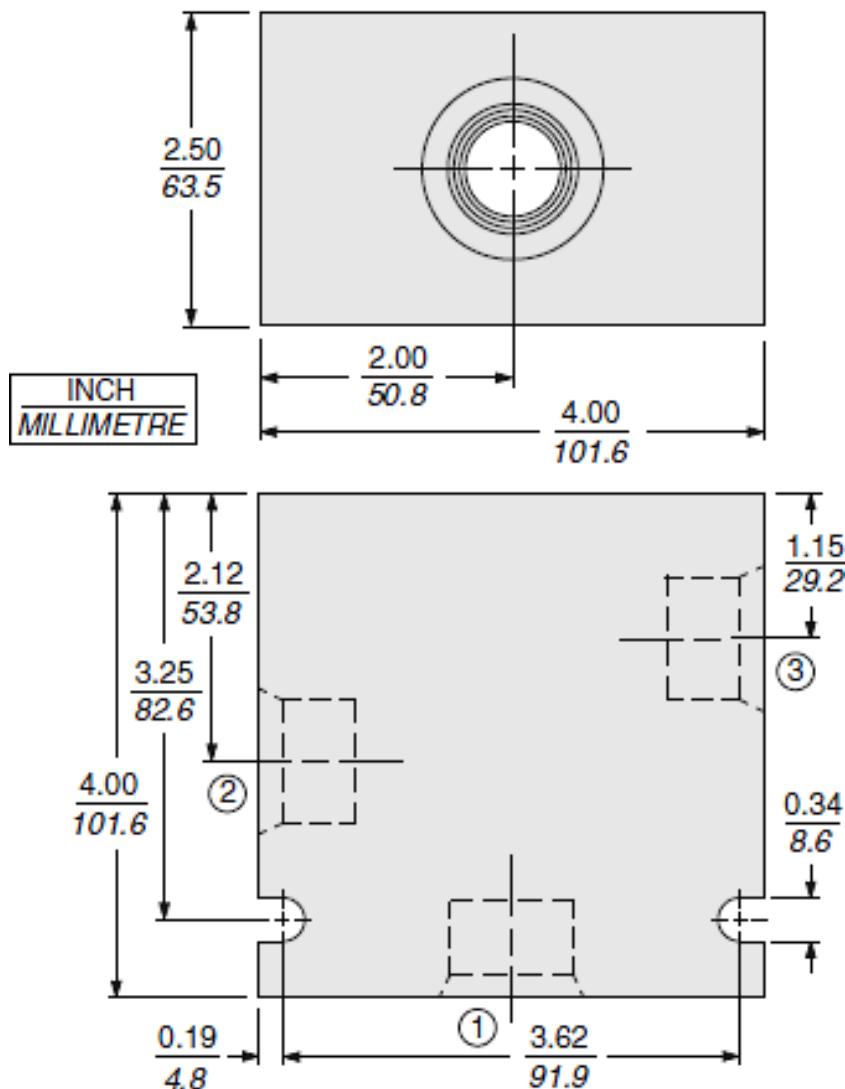
## Symbol

Material	6061-T6511 - <b>Note:</b> Aluminum
	Dura-bar - <b>Note:</b> Ductile iron

## Dimensions



## 3-WAY Ductile Iron, H-Series





## Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7022330	10T	Aluminum	SAE 10	SAE 10	SAE 10				U.S.	
7022340	12T	Aluminum	SAE 12	SAE 12	SAE 12				U.S.	
7027400	12T	Aluminum	SAE 12	SAE 12	SAE 6				U.S.	
7022620	6B	Aluminum	3/4" BSP	3/4" BSP	3/4" BSP				U.K.	
7022320	8T	Aluminum	SAE 8	SAE 8	SAE 8				U.S.	
7158520	12HT	Ductile iron	SAE 12	SAE 12	SAE 12				U.S.	
7155120	12TD	Ductile iron	SAE 12	SAE 12	SAE 12				U.S.	
7150620	12TD	Ductile iron	SAE 12	SAE 12	SAE 6				U.S.	
7150660	6BD	Ductile iron	3/4" BSP	3/4" BSP	3/8" BSP				U.K.	



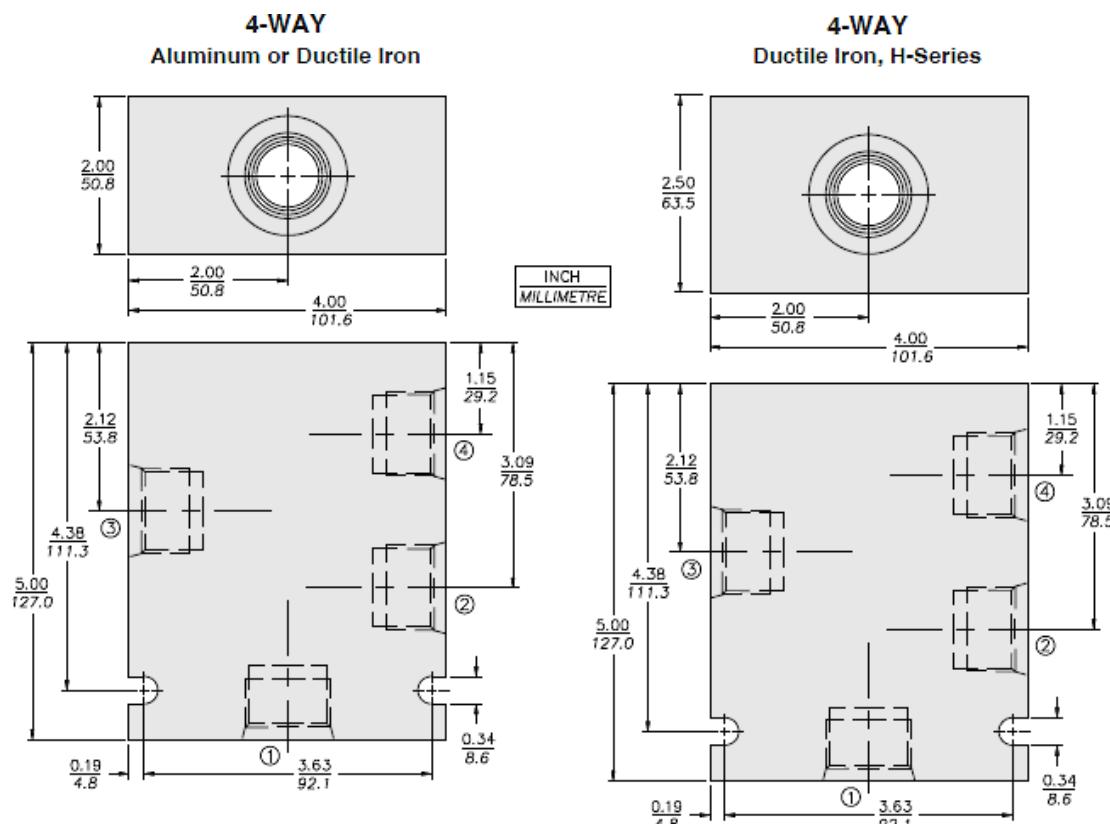
### Ratings

Pressure rating	207 bar (3000 psi) - Note: Aluminum
	345 bar (5000 psi) - Note: Ductile iron

### Symbol

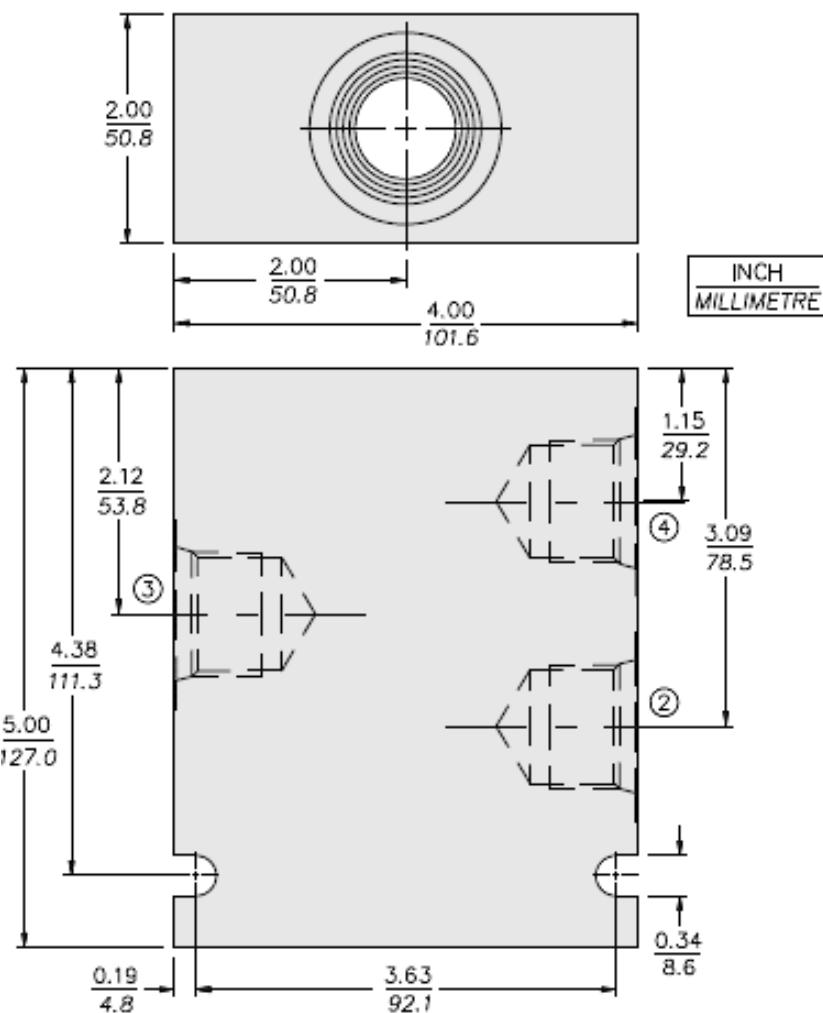
Material	6061-T6511 - Note: Aluminum
	Dura-bar - Note: Ductile iron

### Dimensions





**4-WAY 3-PORT**  
**Special FD-Type, Aluminum or Ductile Iron**



SAE 12 Ported Housing shown

### Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7022480	10T	Aluminum	SAE 10	SAE 10	SAE 10	SAE 10			U.S.	

**Ratings**

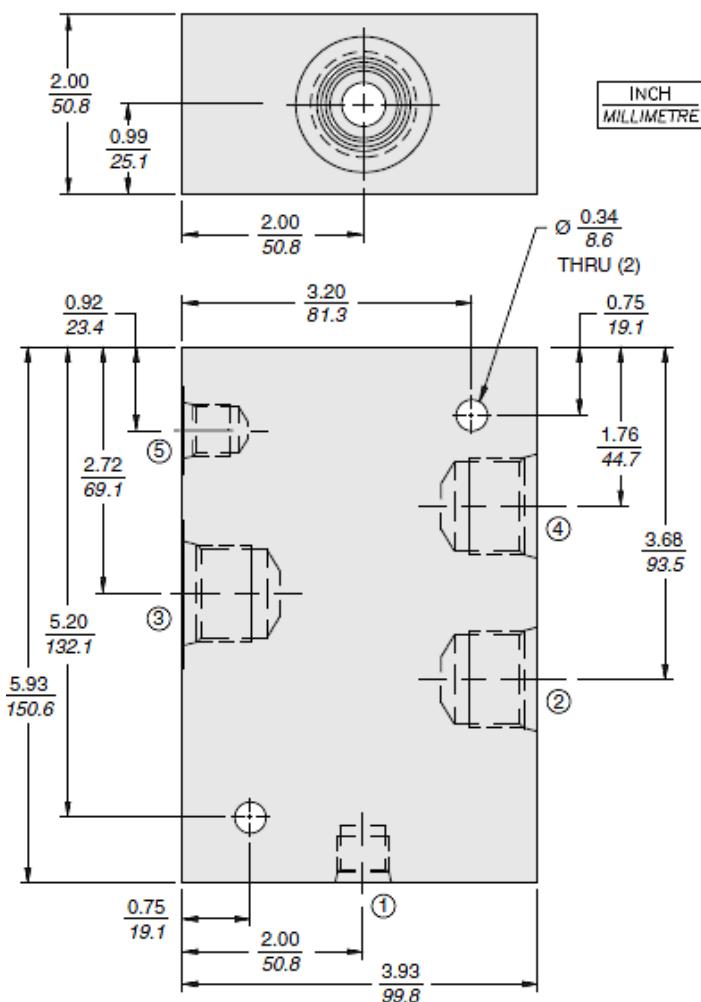
Pressure rating      207 bar (3000 psi) - **Note:** Aluminum  
                           345 bar (5000 psi) - **Note:** Ductile iron

**Symbol**

Material      6061-T6511 - **Note:** Aluminum  
                   Dura-bar - **Note:** Ductile iron

**Dimensions**

**5-WAY**  
**PD-Type, Aluminum**

**Part Numbers**

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7029900	10T	Aluminum	SAE 6	SAE 10	SAE 10	SAE 10	SAE 6		U.S.	



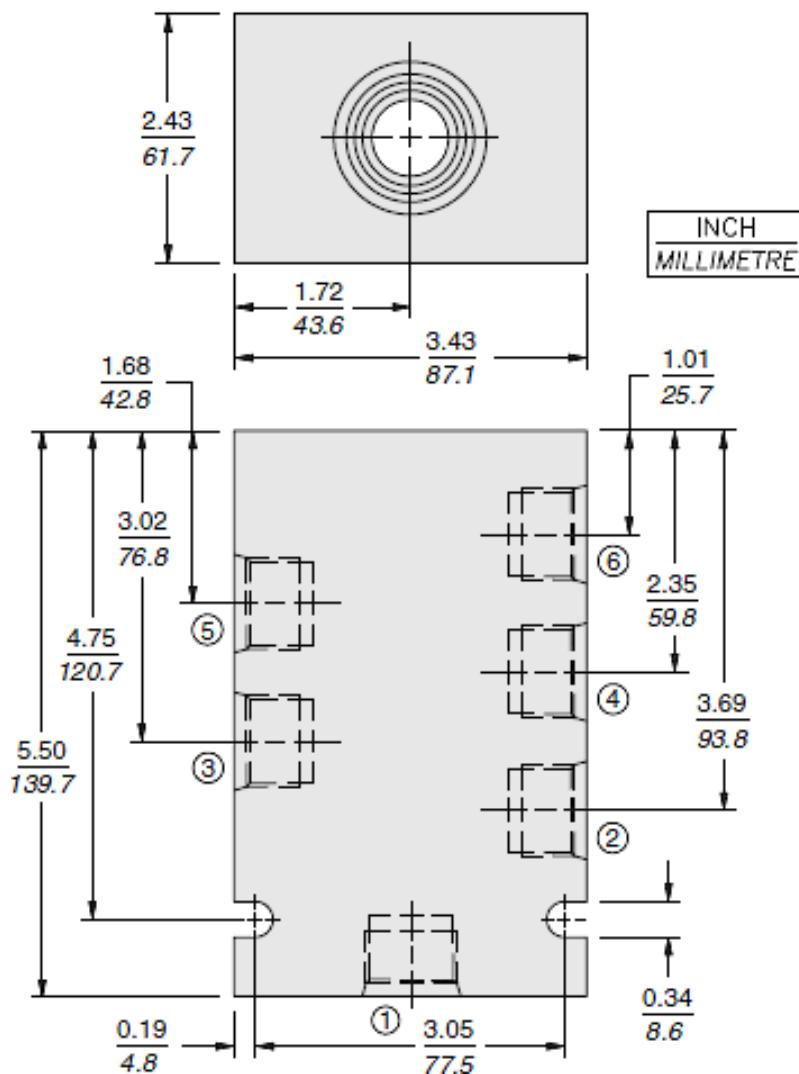
## Ratings

### Symbol

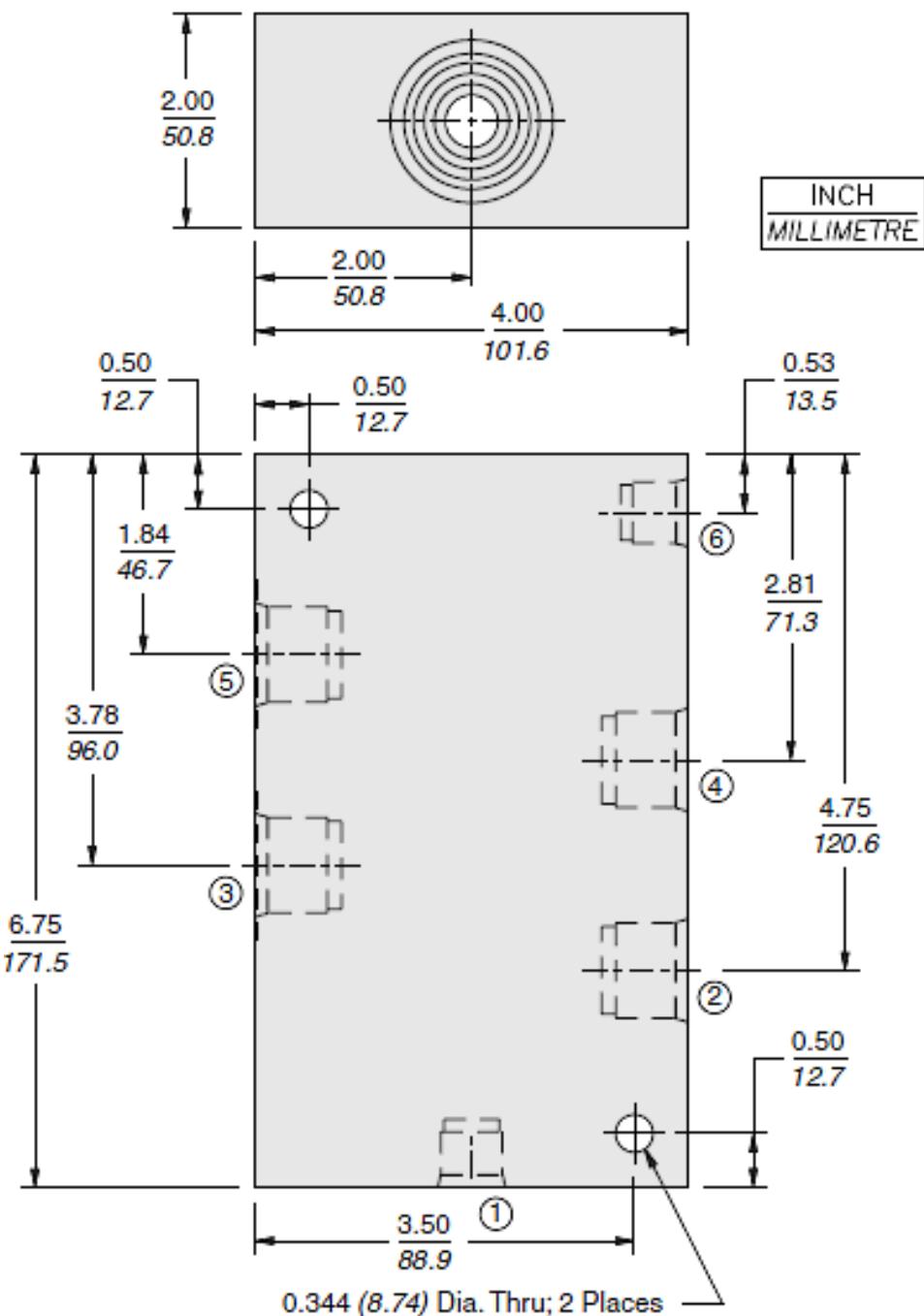
Pressure rating	207 bar (3000 psi) - Note: Aluminum 345 bar (5000 psi) - Note: Ductile iron
Material	6061-T6511 - Note: Aluminum Dura-bar - Note: Ductile iron

## Dimensions

**6-WAY  
Aluminum**



**6-WAY, 12-S6 Test Housing  
PD/PE-Type, Ductile Iron**



### Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7021480	10T	Aluminum	SAE 10	U.S.						
7021470	8T	Aluminum	SAE 8	U.S.						

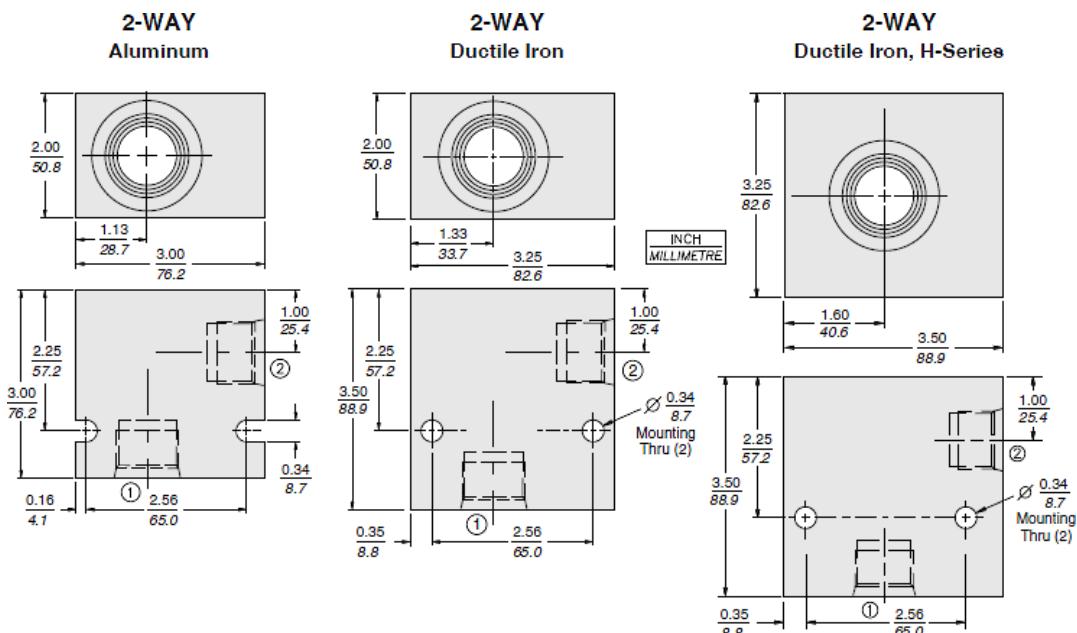


## Ratings

### Symbol

Pressure rating	207 bar (3000 psi) - Note: Aluminum 345 bar (5000 psi) - Note: Ductile iron
Material	6061-T6511 - Note: Aluminum Dura-bar - Note: Ductile iron

## Dimensions



## Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7023230	12T	Aluminum	SAE 12	SAE 12					U.S.	
7023240	16T	Aluminum	SAE 16	SAE 16					U.S.	
7023610	6B	Aluminum	3/4" BSP	3/4" BSP					U.K.	
7023620	8B	Aluminum	1" BSP	1" BSP					U.K.	
7152010	12TD	Ductile iron	SAE 12	SAE 12					U.S.	
7152021	16TD	Ductile iron	SAE 16	SAE 16					U.S.	
7157220	6HT	Ductile iron	SAE 16	SAE 16					U.S.	
7152050	8BD	Ductile iron	1" BSP	1" BSP					U.K.	

## Ratings

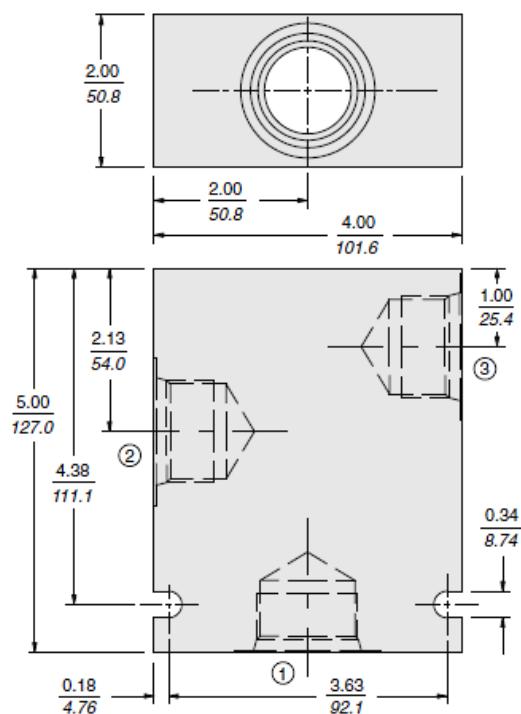
Pressure rating	207 bar (3000 psi) - Note: Aluminum
	345 bar (5000 psi) - Note: Ductile iron

## Symbol

Material	6061-T6511 - Note: Aluminum
	Dura-bar - Note: Ductile iron

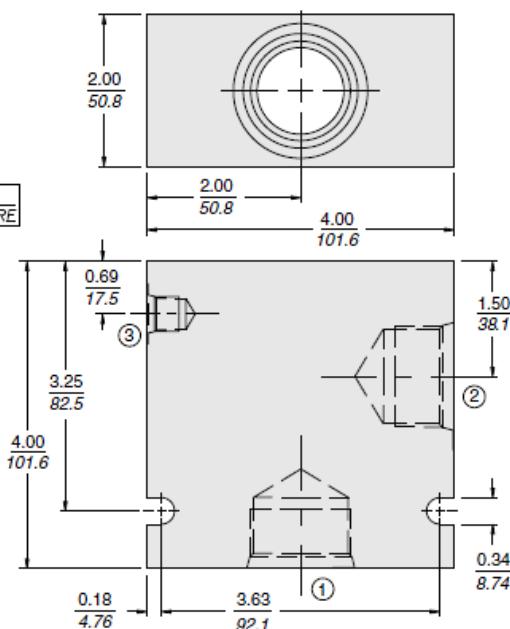
## Dimensions

**3-WAY  
Aluminum**



SAE 16 Ported Housing shown

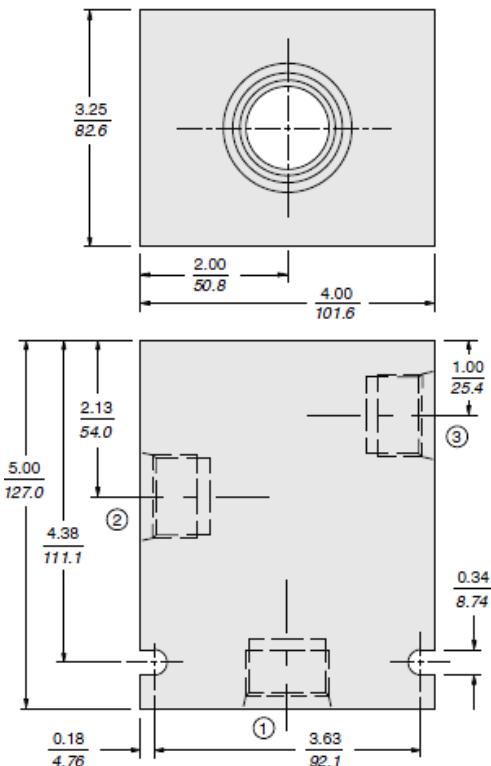
**3-WAY Short  
Aluminum or Ductile Iron**



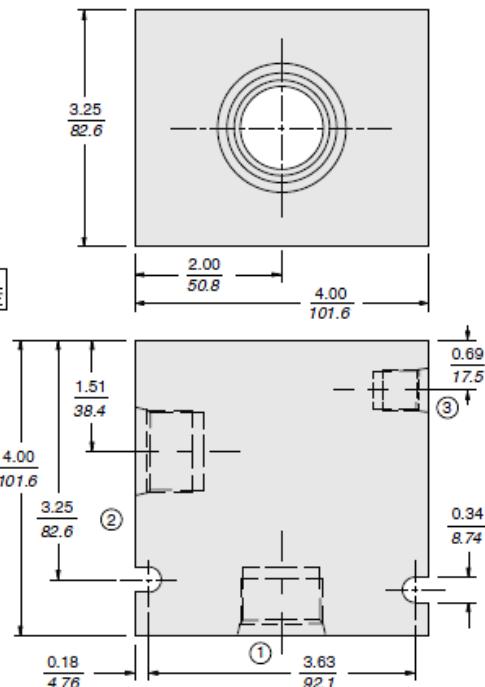
SAE 16 Ported Housing shown



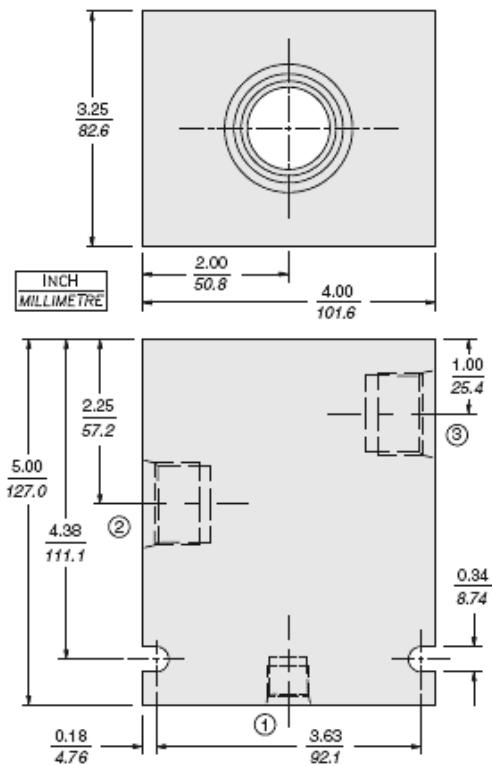
**3-WAY**  
Ductile Iron, H-Series



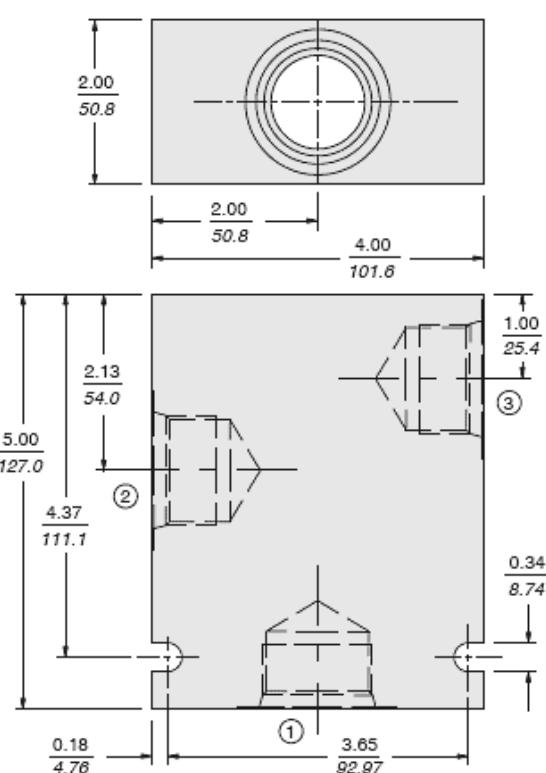
**3-WAY Short**  
Ductile Iron, H-Series



**3-WAY HSPEC-Type  
Ductile Iron, H-Series**



**3-WAY SPCL-Type  
Ductile Iron**



## Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7022650	12T	Aluminum	SAE 12	SAE 12	SAE 12				U.S.	
7022660	16T	Aluminum	SAE 16	SAE 16	SAE 16				U.S.	
7023340	16T	Aluminum	SAE 16	SAE 16	SAE 6				U.S.	
7159530	16HT	Ductile iron	SAE 16	SAE 16	SAE 16				U.S.	
7157420	16HT	Ductile iron	SAE 16	SAE 16	SAE 6				U.S.	
7159640	16HT	Ductile iron	SAE 6	SAE 16	SAE 16				U.S.	
7152130	16TD	Ductile iron	SAE 16	SAE 16	SAE 16				U.S.	



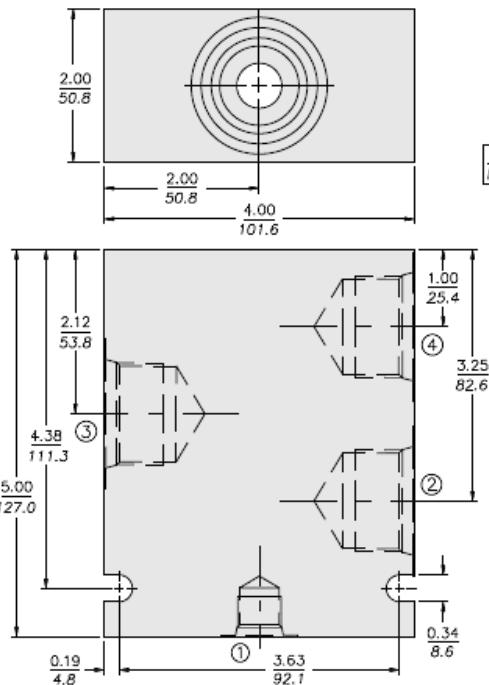
### Ratings

#### Symbol

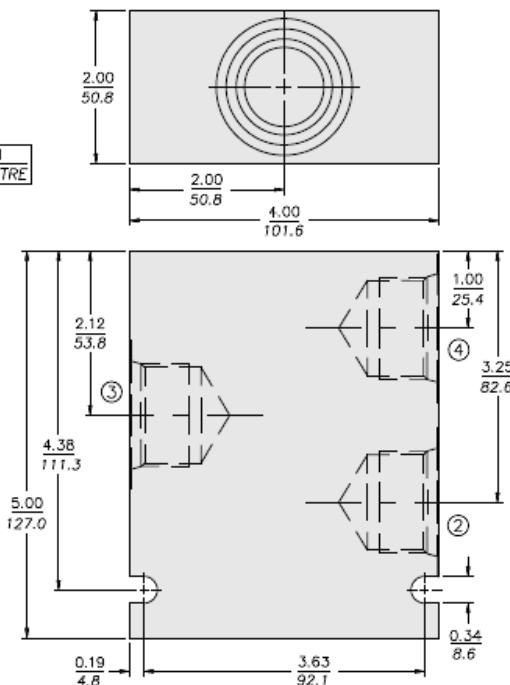
Pressure rating	207 bar (3000 psi) - Note: Aluminum 345 bar (5000 psi) - Note: Ductile iron
Material	6061-T6511 - Note: Aluminum Dura-bar - Note: Ductile iron

### Dimensions

**4-WAY**  
Aluminum, PD-Type



**4-WAY 3-PORT**  
Special FD-Type, Aluminum or Ductile Iron



SAE 16 Ported Housing shown

SAE 16 Ported Housing shown

### Part Numbers

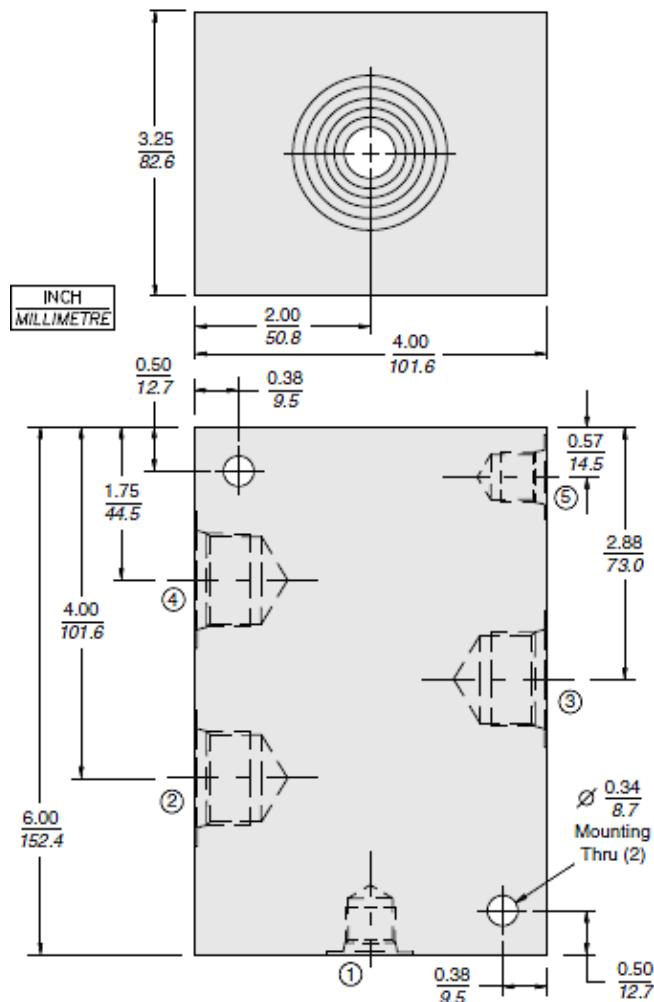
Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7023470	16T	Aluminum	SAE 6	SAE 16	SAE 16	SAE 16			U.S.	PD-type body
7023460	16T	Aluminum	-	SAE 16	SAE 16	SAE 16			U.S.	
7023450	2T	Aluminum	SAE 6	SAE 12	SAE 12	SAE 12			U.S.	PD-type body
7152410	12TD	Ductile iron	-	SAE 12	SAE 12				U.S.	
7152420	16TD	Ductile iron	-	SAE 16	SAE 16	SAE 16			U.S.	

**Ratings****Symbol**

Pressure rating	207 bar (3000 psi) - Note: Aluminum 345 bar (5000 psi) - Note: Ductile iron
Material	6061-T6511 - Note: Aluminum Dura-bar - Note: Ductile iron

**Dimensions**

**5-WAY 16-S5**  
**Ductile Iron, H-Series, HPD-Type**

**Part Numbers**

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7159960	16HT	Ductile iron	SAE 6	SAE 16	SAE 16	SAE 16	SAE 6		U.S.	



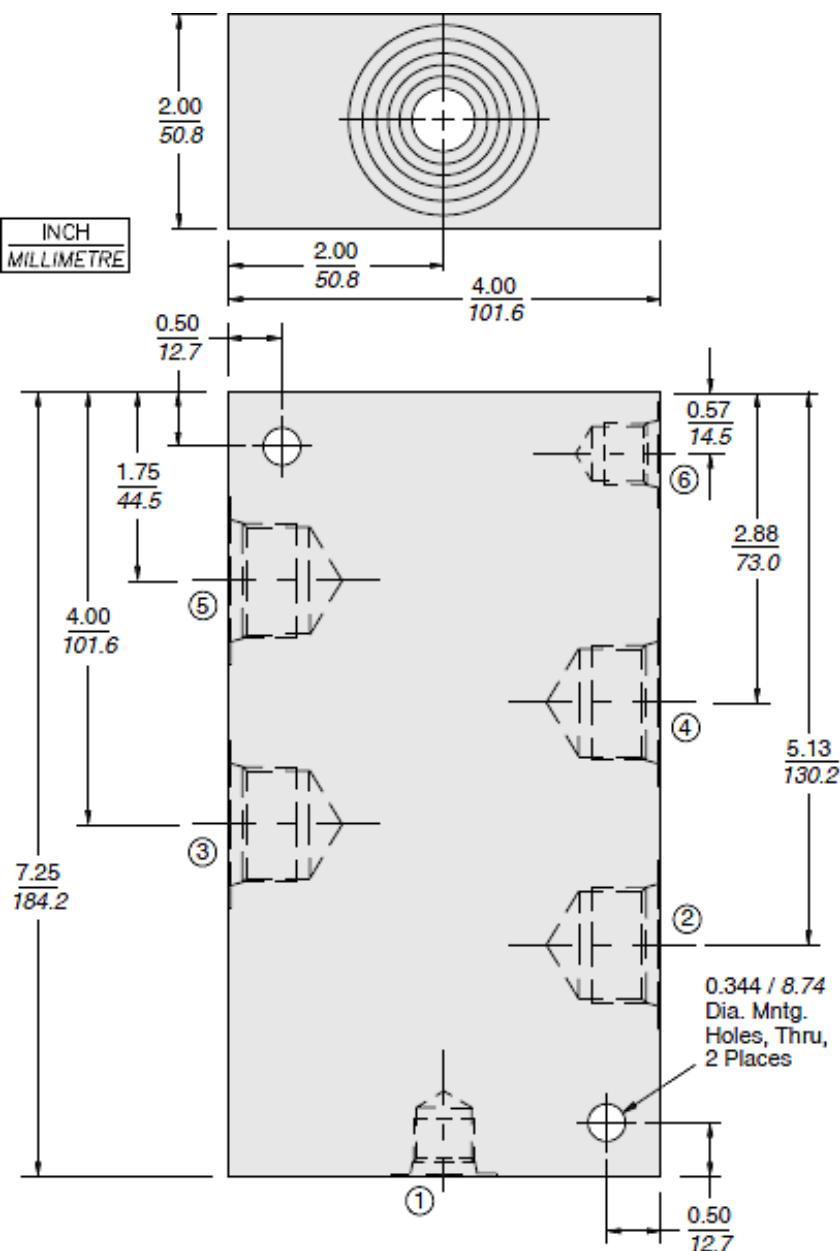
## Ratings

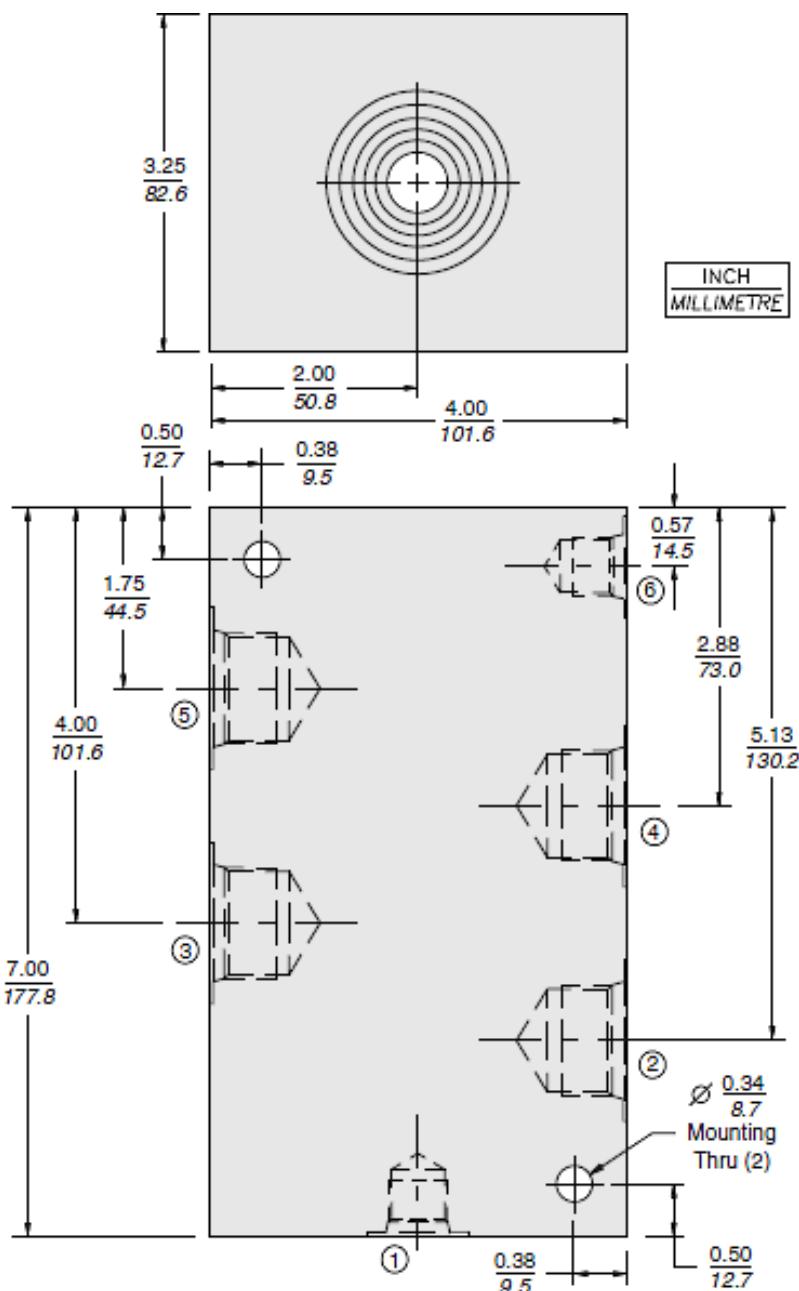
Pressure rating  
 207 bar (3000 psi) - **Note:** Aluminum  
 345 bar (5000 psi) - **Note:** Ductile iron

## Symbol

Material  
 6061-T6511 - **Note:** Aluminum  
 Dura-bar - **Note:** Ductile iron

## Dimensions





## Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7157560	16HT	Ductile iron	SAE 6	SAE 16	SAE 16	SAE 16	SAE16	SAE 6	U.S.	
7150360	16TD	Ductile iron	SAE 6	SAE 16	SAE 16	SAE 16	SAE16	SAE 6	U.S.	



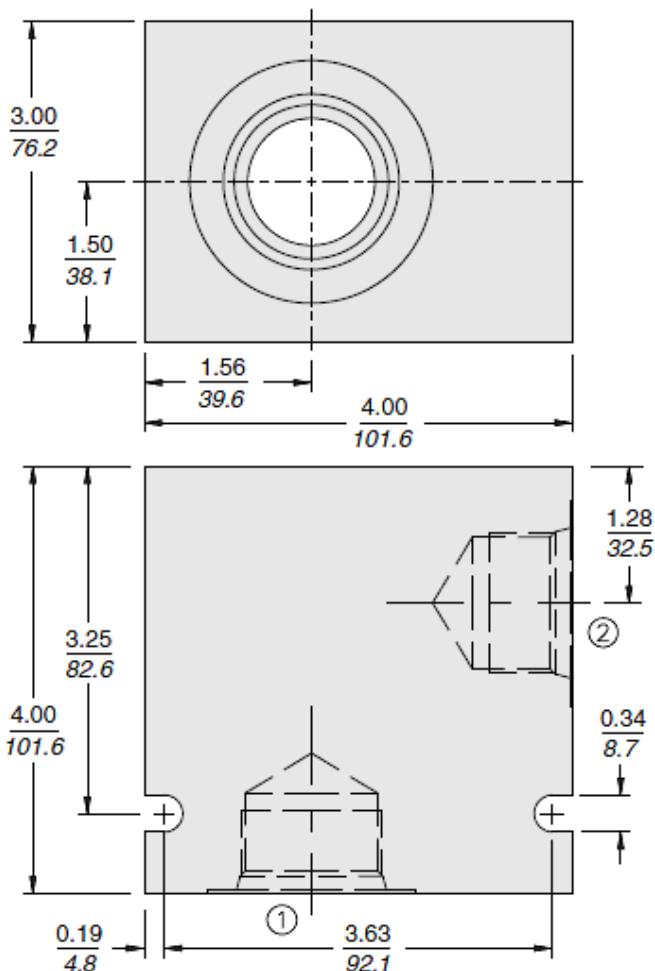
## Ratings

### Symbol

Pressure rating	207 bar (3000 psi) - Note: Aluminum 345 bar (5000 psi) - Note: Ductile iron
Material	6061-T6511 - Note: Aluminum Dura-bar - Note: Ductile iron

## Dimensions

**2-WAY**  
**Aluminum or Ductile Iron**



## Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
4553840	16T	Aluminum	SAE 16	SAE 16					U.S.	
4553850	20T	Aluminum	SAE 20	SAE 20					U.S.	
4553860	16TD	Ductile iron	SAE 16	SAE 16					U.S.	
4553870	20TD	Ductile iron	SAE 20	SAE 20					U.S.	



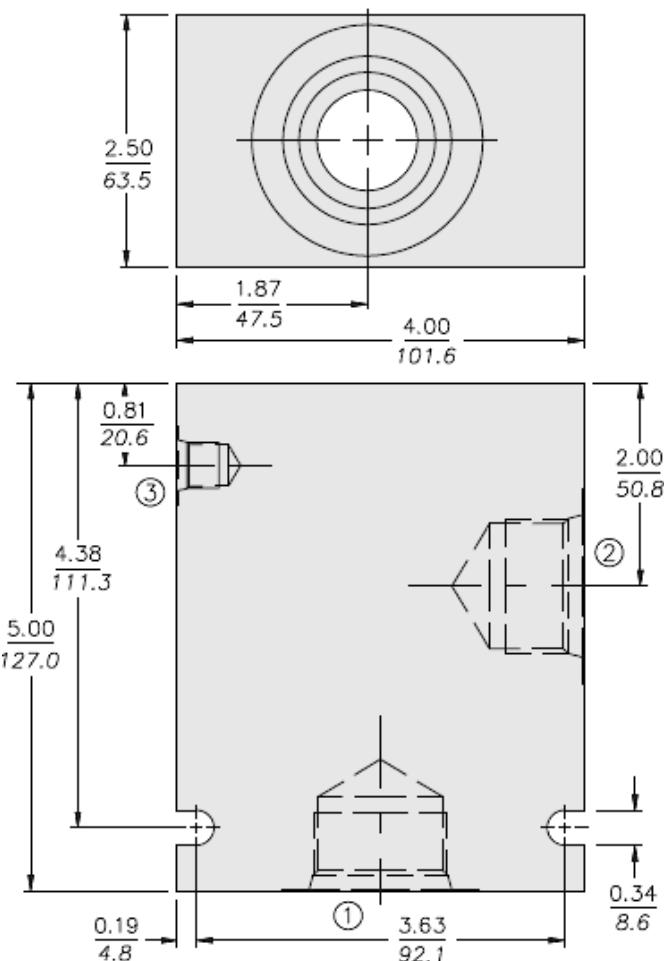
### Ratings

#### Symbol

Pressure rating	207 bar (3000 psi) - Note: Aluminum 345 bar (5000 psi) - Note: Ductile iron
Material	6061-T6511 - Note: Aluminum Dura-bar - Note: Ductile iron

### Dimensions

**3-WAY Short  
Aluminum or Ductile Iron**



### Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7023130	16T	Aluminium	SAE 16	SAE 16	SAE 6				U.S.	



## Ratings

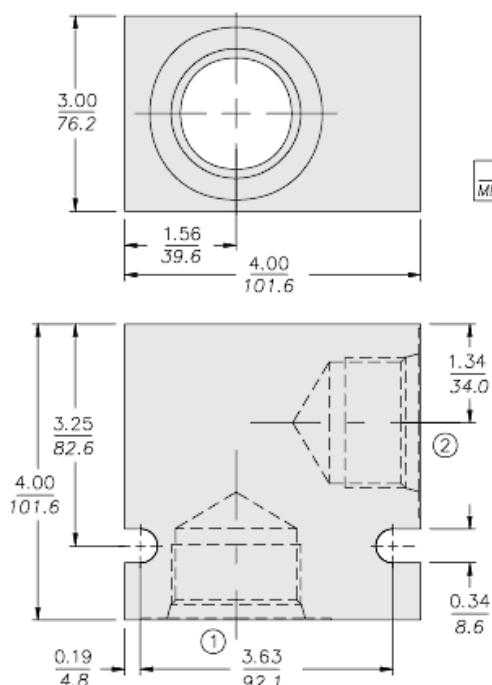
Pressure rating  
 207 bar (3000 psi) - Note: Aluminum  
 345 bar (5000 psi) - Note: Ductile iron

### Symbol

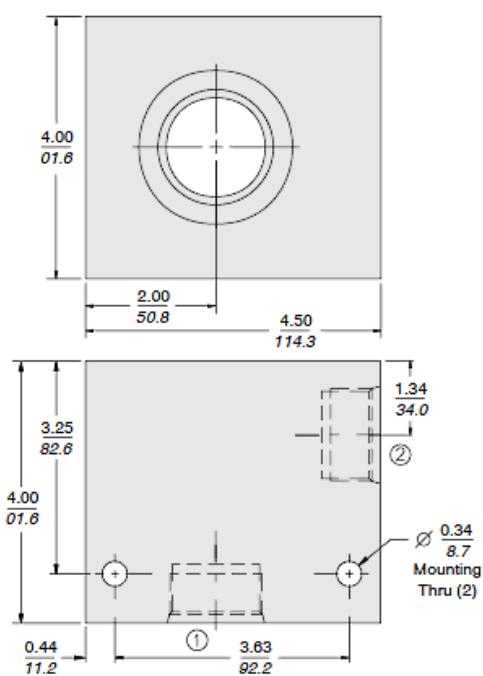
Material  
 6061-T6511 - Note: Aluminum  
 Dura-bar - Note: Ductile iron

## Dimensions

**2-WAY M2**  
**Aluminum or Ductile Iron**



**2-WAY M2**  
**Ductile Iron, H-Series**



## Part Numbers

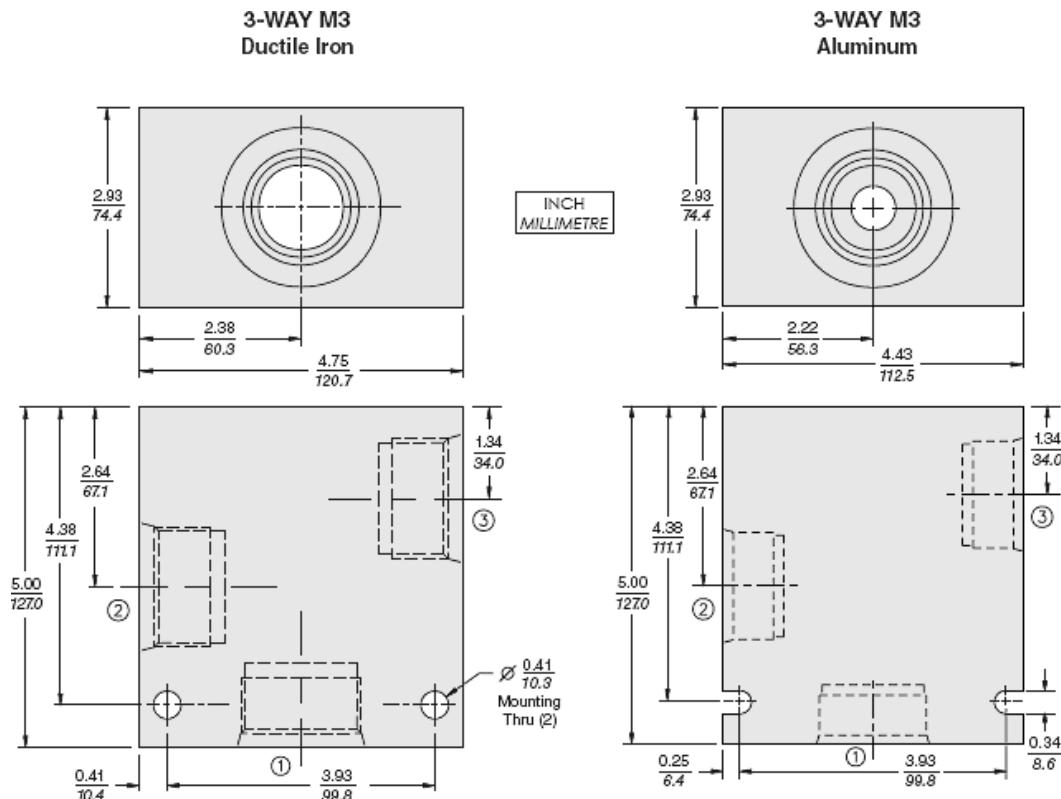
Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7022580	20T	Aluminum	SAE 20	SAE 20					U.S.	
7157310	20HT	Ductile iron	SAE 20	SAE 20					U.S.	
7154010	20TD	Ductile iron	SAE 20	SAE 20					U.S.	

## Ratings

### Symbol

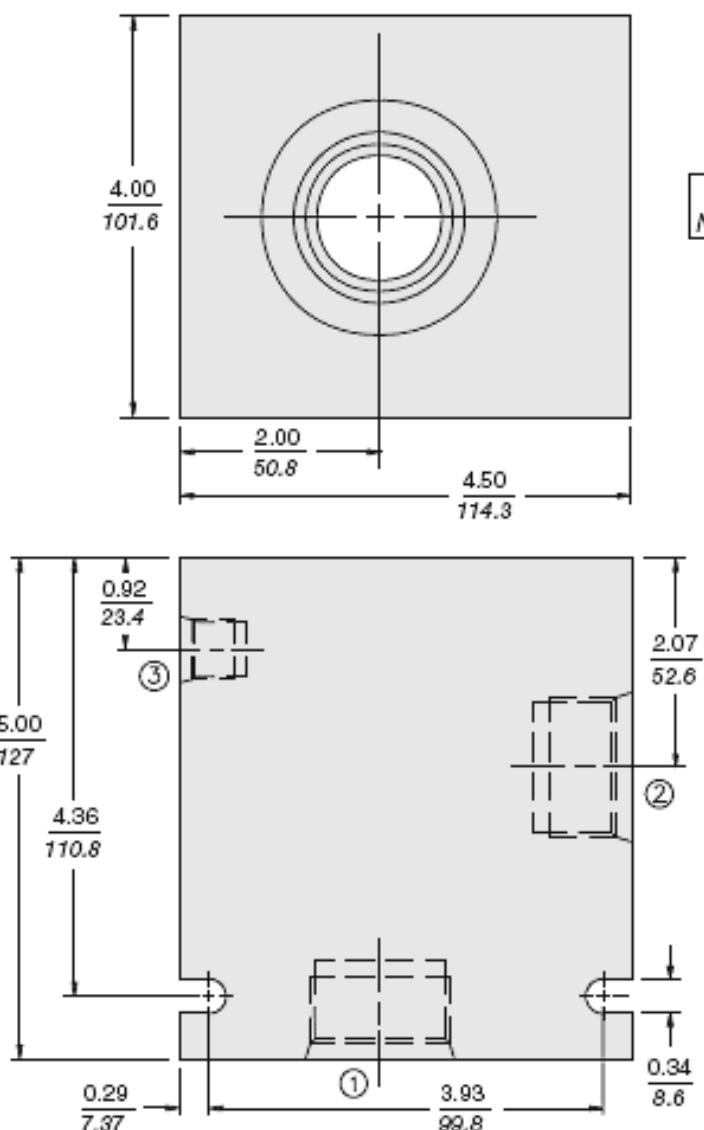
Pressure rating	207 bar (3000 psi) - <b>Note:</b> Aluminum
	345 bar (5000 psi) - <b>Note:</b> Ductile iron
Material	6061-T6511 - <b>Note:</b> Aluminum
	Dura-bar - <b>Note:</b> Ductile iron

## Dimensions





**3-WAY S3 and S3A  
Ductile Iron, H-Series**



INCH  
MILLIMETRE

### Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7021250	20T	Aluminum	SAE 20	SAE 20	SAE 20				U.S.	
7154620	20TD	Ductile iron	SAE 20	SAE 20	SAE 20				U.S.	



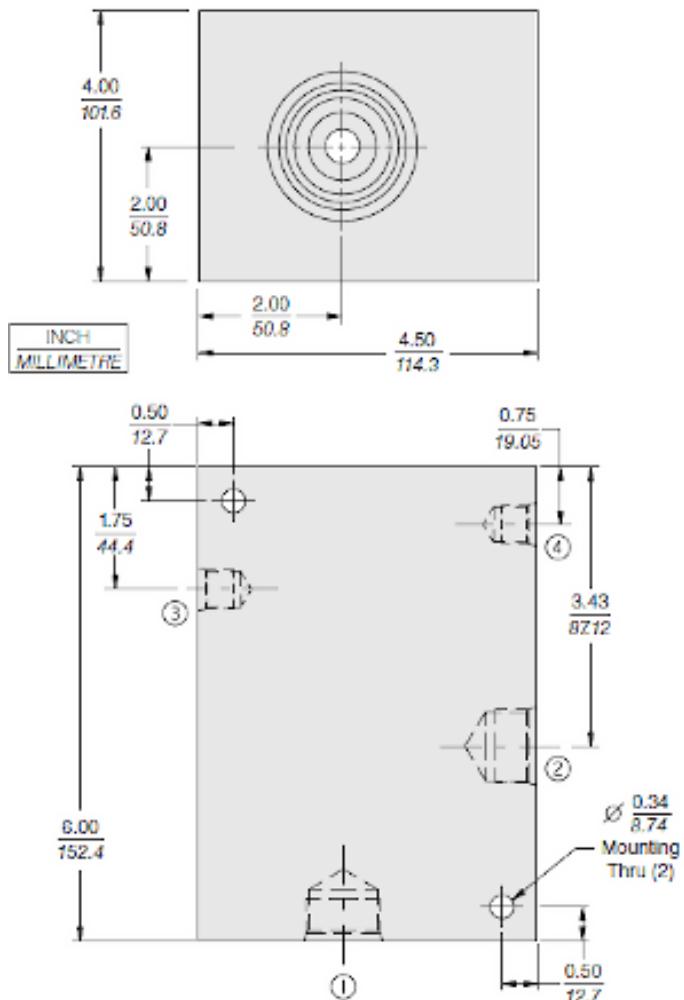
### Ratings

#### Symbol

Pressure rating	207 bar (3000 psi) - Note: Aluminum 345 bar (5000 psi) - Note: Ductile iron
Material	6061-T6511 - Note: Aluminum Dura-bar - Note: Ductile iron

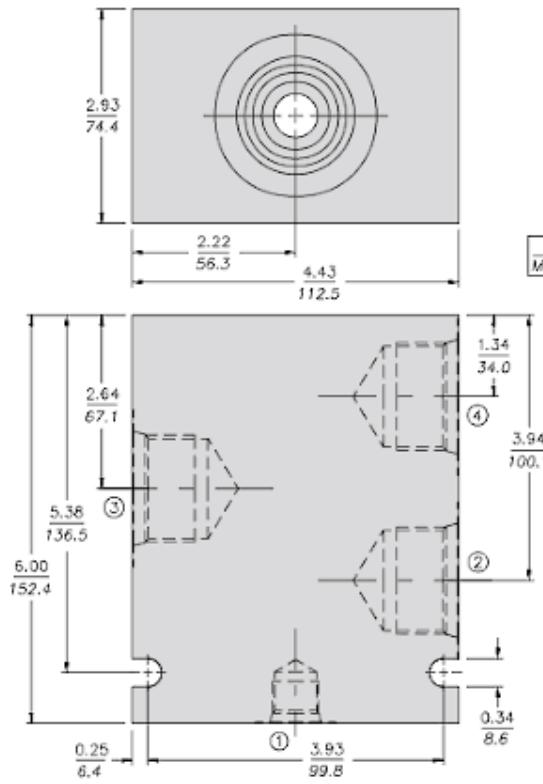
### Dimensions

**4-WAY J4**  
**Ductile Iron**

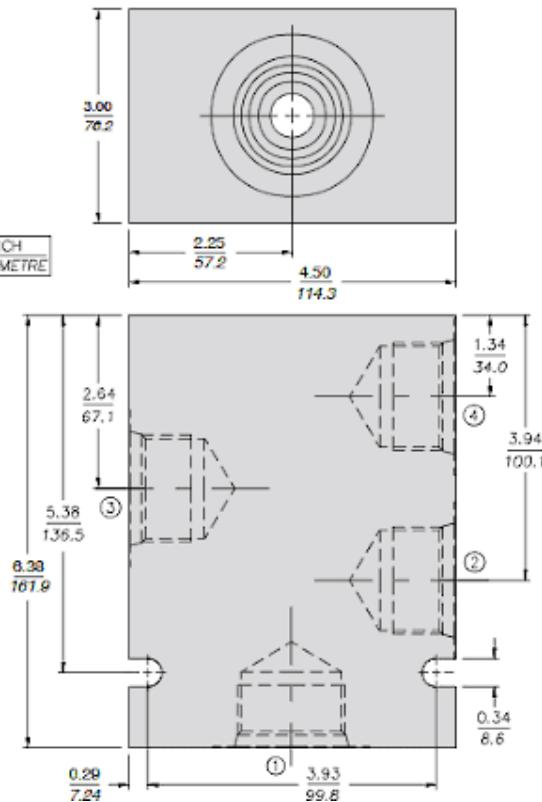




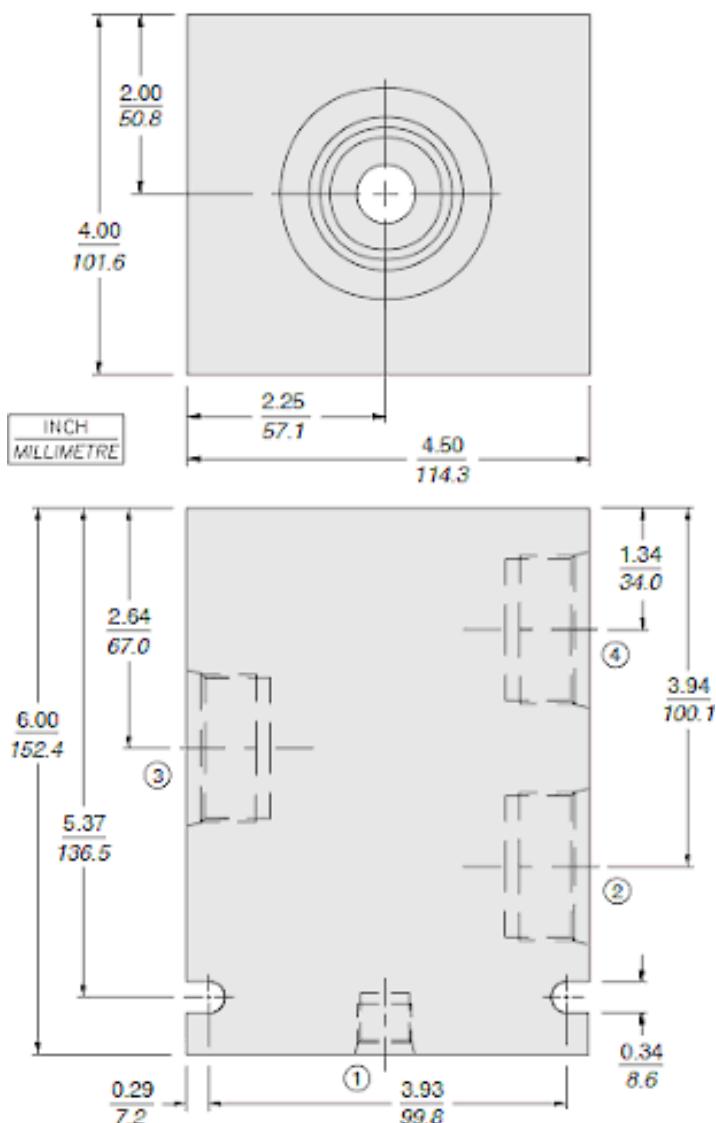
**4-WAY M4 PD-Type**  
Aluminum or Ductile Iron



**4-WAY M4**  
Ductile Iron



**4-WAY M4 HPD/HPE-Type  
Ductile Iron, H-Series**



## Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7029540	16T	Aluminum	SAE 6	SAE 16	SAE 16	SAE 16			U.S.	
7029550	20T	Aluminum	SAE 6	SAE 20	SAE 20	SAE 20			U.S.	
7160870	20HT	Ductile iron	SAE 20	SAE 20	SAE 6	SAE 6			U.S.	
7154320	20TD	Ductile iron	SAE 6	SAE 20	SAE 20	SAE 20			U.S.	

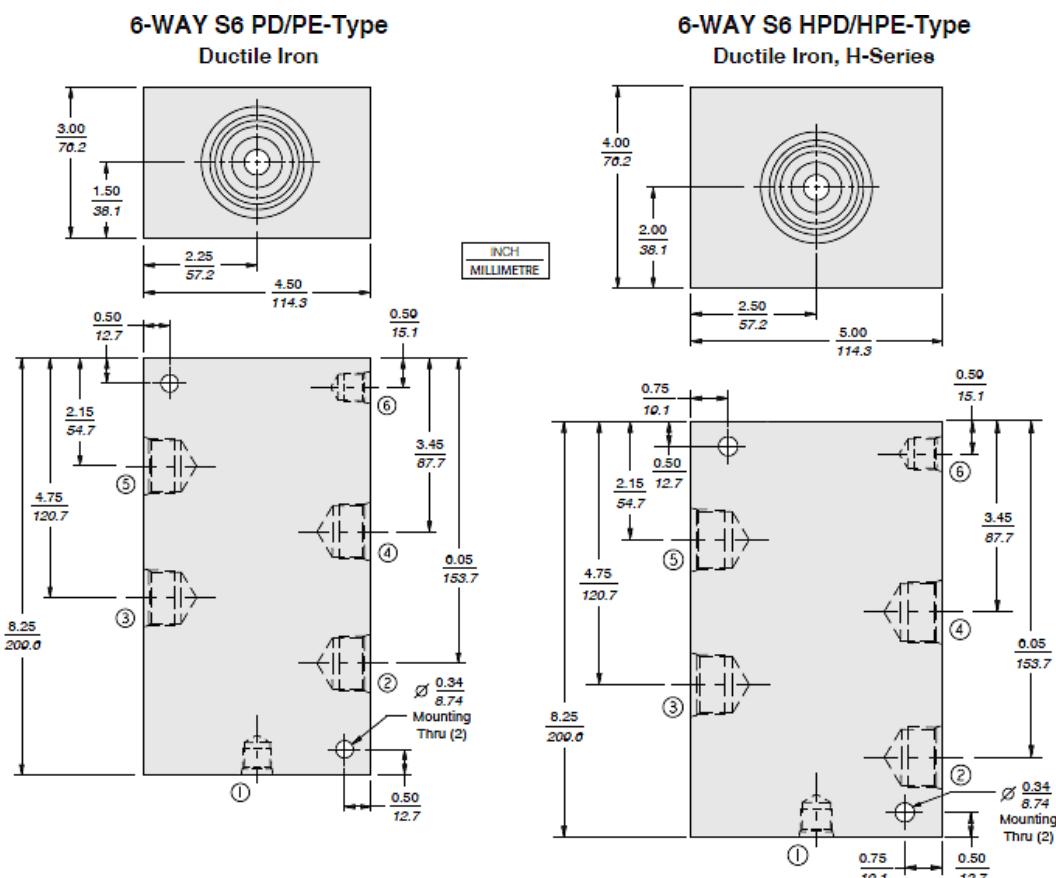


### Ratings

Symbol
--------

Pressure rating	207 bar (3000 psi) - Note: Aluminum 345 bar (5000 psi) - Note: Ductile iron
Material	6061-T6511 - Note: Aluminum Dura-bar - Note: Ductile iron

### Dimensions



### Part Numbers

Part No.	Model Code	Material	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Mfg. Location	Notes
7158070	20HT	Ductile iron	SAE 6	SAE 20	SAE 20	SAE 20	SAE 20	SAE 6	U.S.	
7150470	20TD	Ductile iron	SAE 6	SAE 20	SAE 20	SAE 20	SAE 20	SAE 6	U.S.	

## Overview

### Symbol

### Description

Magnet wire wound on a molded 30% glass filled bobbin framed in steel and encapsulated with 30% glass filled polyester resin. Coil impregnated with anaerobic sealant.

### Ratings

#### Properties

Magnet wire	U.S. class N 200 °C (392 °F) minimum rating
Mating connector	DT06-2S-P012 - <b>Note:</b> DEUTSCH DT04-2P DELPHI/PACKARD number 12010973 - <b>Note:</b> Weather-Pack 2 terminal male, lead wires 18 AWG

#### Electrical Parameters

Coil resistance at 20 °C (68 °F)	6.8 ohm &#177;3% - <b>Note:</b> 10 Vdc coil 9.8 ohm &#177;3% - <b>Note:</b> 12 Vdc coil 27.2 ohm &#177;5% - <b>Note:</b> 20 Vdc coil 39.3 ohm &#177;5% - <b>Note:</b> 24 Vdc coil 88.3 ohm &#177;5% - <b>Note:</b> 36 Vdc coil 765.5 ohm &#177;8% - <b>Note:</b> 115 Vdc coil 3035 ohm &#177;8% - <b>Note:</b> 230 Vdc coil
Coil inductance at 20 °C (68 °F)	485.7 mH &#177;5% - <b>Note:</b> 115 Vac coil 2026.1 mH &#177;5% - <b>Note:</b> 230 Vac coil
Coil initial current draw	1.47 A - <b>Note:</b> 10 Vdc coil 1.22 A - <b>Note:</b> 12 Vdc coil 0.74 A - <b>Note:</b> 20 Vdc coil 0.61 A - <b>Note:</b> 24 Vdc coil 0.41 A - <b>Note:</b> 36 Vdc coil 0.14 A - <b>Note:</b> 115 Vac coil, @ 60 Hz 0.15 A - <b>Note:</b> 115 Vac coil, @ 50 Hz (calculated using winding inductance) 0.07 A - <b>Note:</b> 230 Vac coil, @ 60 Hz 0.74 A - <b>Note:</b> 230 Vac coil, @ 50 Hz (calculated using winding inductance)
Stabilized AC current draw	98.4 mA - <b>Note:</b> 115 Vac coil, @ 60 Hz 49 mA - <b>Note:</b> 230 Vac coil, @ 60 Hz
Coil initial power consumption	14.7 W - <b>Note:</b> DC Coils 8.55 W - <b>Note:</b> AC Coils



8.55 W - Note: AC Coils

**Brigde Rectifier (AC coils)**

Rectifier 4x IN5399

Average rectified forward current 1.5 A - Note: at 75 °C (167 °F)  
rating

Peak reverse voltage 1000 V

**Bidirectional Zener Diode Parameters**Maximum clamping voltage 45.7 V - Note: 12 Vdc coil  
64.8 V - Note: 24 Vdc coilMaximum peak pulse current 13.2 A - Note: 12 Vdc coil  
9.3 A - Note: 24 Vdc coilReverse standoff voltage 28.2 V - Note: 12 Vdc coil  
40.2 V - Note: 24 Vdc coil

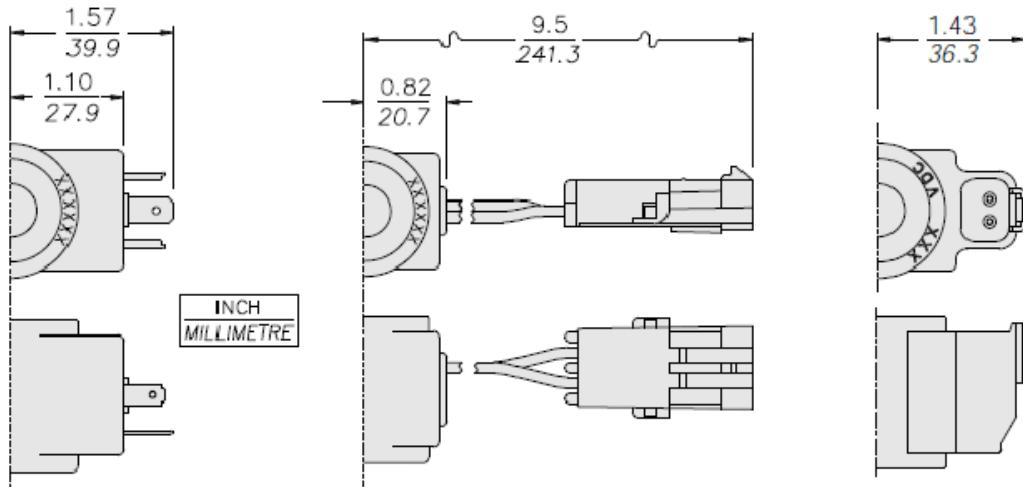
Maximum reverse leakage 5.0 &amp;#181;A - Note: 12, 24 Vdc coil

Breakdown voltage 31.4 to 34.7 V - Note: 12 Vdc coil  
44.7 to 49.4 V - Note: 24 Vdc coilDiode part number 6110163 - Note: 12 Vdc coil (ref)  
4000063 - Note: 24 Vdc coil (ref)**Unidirectional Diode Parameters**Average forward current 3.0 A - Note: Maximum, 12 Vdc coil  
1 A - Note: Maximum, 24 Vdc coil

Maximum repetitive peak reverse voltage 50 V

Diode part number 4002474

## Dimensions



**G**

DIN 43650  
Connector

Pins 1 and 2 are not  
polarity-sensitive.  
Ground pin is not used.

**W**

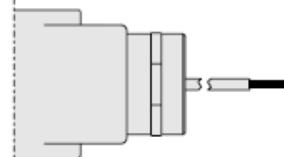
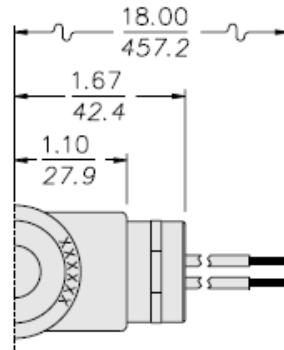
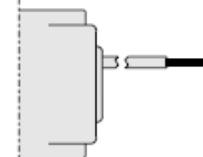
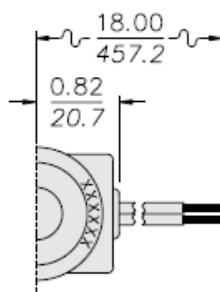
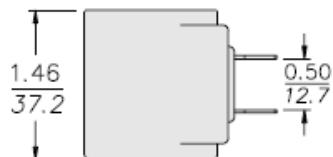
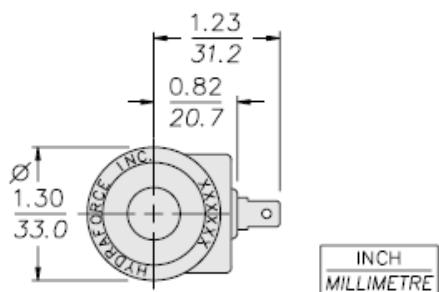
Dual 18 Gauge Leads with  
Weather Pack® Connector

For use with Packard  
part no. 12015792 female plug

**DR**

Integral Deutsch  
Connector

DR Models without Diode  
DR/D Models with Diode  
DR/Z Models with Zener Diode



**S**

**L**

**P**



## Coil Part Numbers

Model Code	Part No.	Voltage	Connector	IP Rating	Diode
24AG	6316024	24	DIN 43650	IP65	
115AG	6316115	115	DIN 43650	IP65	
230AG	6316230	230	DIN 43650	IP65	
24AP	6315024	24	1/2-14 NPT internal thread	IP65	
115AP	6315115	115	1/2-14 NPT internal thread	IP65	
230AP	6315230	230	1/2-14 NPT internal thread	IP65	
12DG	6306012	12	DIN 43650	IP65	
20DG	6306020	20	DIN 43650	IP65	
24DG	6306024	24	DIN 43650	IP65	
36DG	6306036	36	DIN 43650	IP65	
10DL	6302010	10	Dual leads/no connector	IP65	
12DL	6302012	12	Dual leads/no connector	IP65	
12DL	6307012	12	Dual leads/no connector	IP65	
24DL	6302024	24	Dual leads/no connector	IP65	
24DL	6307024	24	Dual leads/no connector	IP65	
12DL/W	6309412	12	Dual leads/no connector	IP65	
24DL/W	6309424	24	Dual leads/no connector	IP65	
12DL/W/D	6309737	12	Dual leads/no connector	IP65	Ultra-fast diode
12DR	4301512	12	Deutsch DT04-2P	IP65	
24DR	4301524	24	Deutsch DT04-2P	IP65	
10DR/D	4301871	10	Deutsch DT04-2P	IP65	Ultra-fast diode
12DR/D	4301872	12	Deutsch DT04-2P	IP65	Ultra-fast diode
24DR/D	4301874	24	Deutsch DT04-2P	IP65	Ultra-fast diode
12DR/Z	4301852	12	Deutsch DT04-2P	IP65	Bidirectional zeener diode
24DR/Z	4301854	24	Deutsch DT04-2P	IP65	Bidirectional zeener diode
10DS	6301010	10	Dual spade	IP65	
12DS	6301012	12	Dual spade	IP65	
20DS	6301020	20	Dual spade	IP65	
24DS	6301024	24	Dual spade	IP65	
36DS	6301036	36	Dual spade	IP65	

## Overview

### Description

#### Symbol

Magnet wire winding overmolded 30% glass filled polyester, and enclosed in a three piece zinc plated metal shell.

## Ratings

### Properties

Magnet wire	U.S. class N 200 °C (392 °F) minimum rating
Mating connector	DT06-2S-P012 - <b>Note:</b> DEUTSCH DT04-2P DELPHI/PACKARD number 12052641 - <b>Note:</b> METRI-PACK 150-2M
Coil metal frame	Plated for 1,000 hours of salt spray per ASTM B117-09 before corrosion (red rust)

### Electrical Parameters

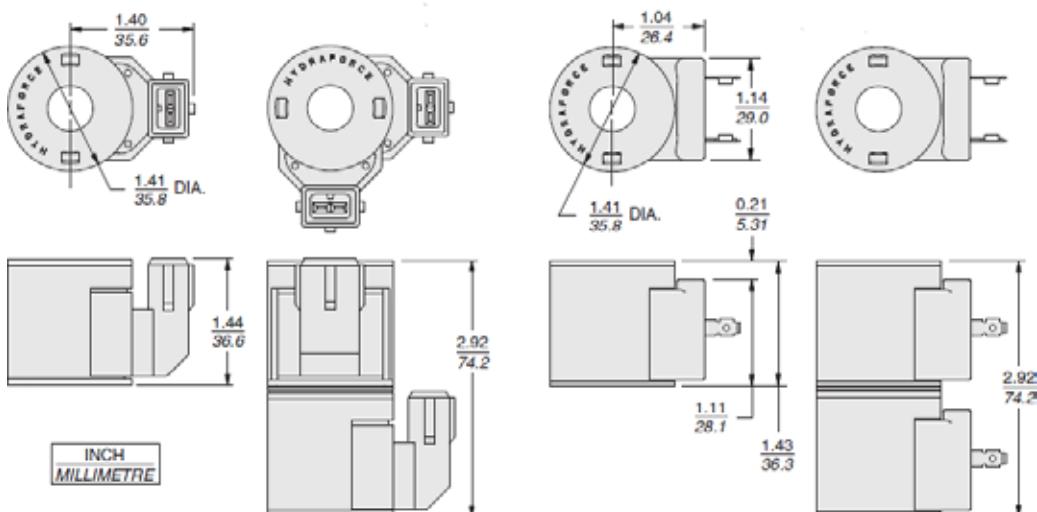
Coil resistance at 20 °C (68 °F)	6.18 ohm &#177;3% - <b>Note:</b> 10 V coil 8.8 ohm &#177;3% - <b>Note:</b> 12 V coil 15.6 ohm &#177;5% - <b>Note:</b> 20 V coil 33.75 ohm &#177;5% - <b>Note:</b> 24 V coil
Coil inductance at 20 °C (68 °F)	6.22 mH &#177;5% - <b>Note:</b> 10 V coil 10.61 mH &#177;5% - <b>Note:</b> 12 V coil 30.48 mH &#177;5% - <b>Note:</b> 20 V coil 44 mH &#177;5% - <b>Note:</b> 24 V coil
Coil initial current draw	1.62 A - <b>Note:</b> 10 V coil 1.36 A - <b>Note:</b> 12 V coil 0.84 A - <b>Note:</b> 20 V coil 0.71 A - <b>Note:</b> 24 V coil
coil-initial-power-consumption	16.16 W - <b>Note:</b> 10 V coil 16.33 W - <b>Note:</b> 12 V coil 16.76 W - <b>Note:</b> 20 V coil 17.07 W - <b>Note:</b> 24 V coil

**Bidirectional Zener Diode Parameters**

Maximum clamping voltage	45.7 V - Note: 12 Vdc coil
	64.8 V - Note: 16, 24 Vdc coil
	13.2 A - Note: 12 Vdc coil
Maximum peak pulse current	9.3 A - Note: 16, 24 Vdc coil
Reverse standoff voltage	28.2 V - Note: 12 Vdc coil
	40.2 V - Note: 24 Vdc coil
Maximum reverse leakage	5.0 mA - Note: 12, 16, 24 Vdc coil
Breakdown voltage	31.4 to 34.7 V - Note: 12 Vdc coil
	44.7 to 49.4 V - Note: 16, 24 Vdc coil
Diode part number	6110163 - Note: 12 Vdc coil (ref) 4000063 - Note: 16, 24 Vdc coil (rev)

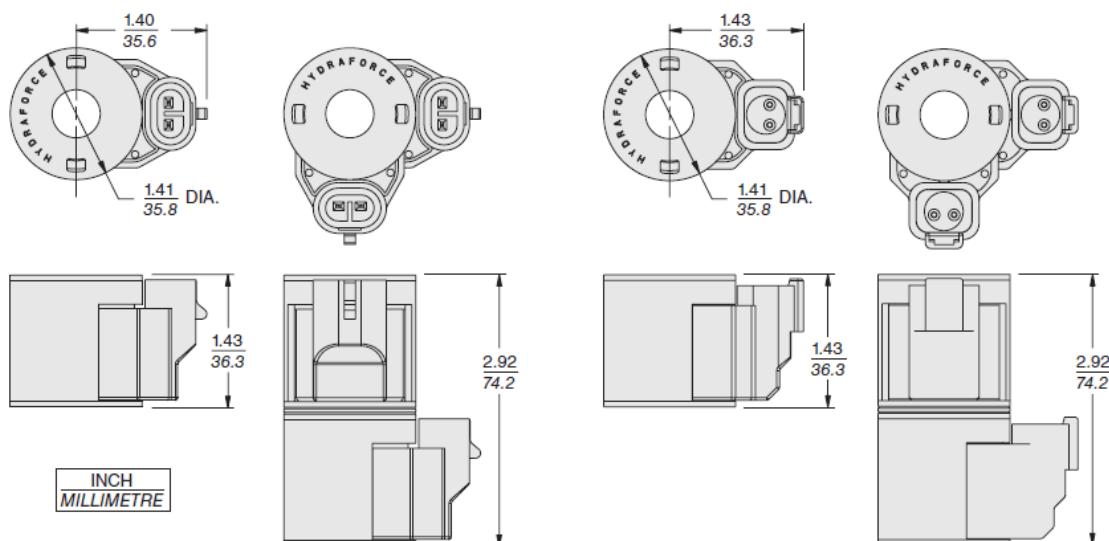
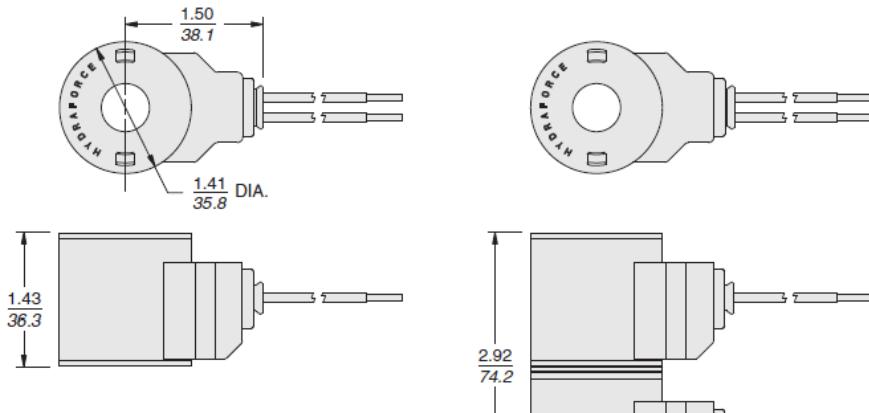
**Ultra-fast Diode Parameters (12/24 Vdc Coil)**

Average forward current	3.5 A
Repetitive peak reverse voltage	600 V
Diode part number	4002474

**Dimensions****EJ**IP67 Rated 08-Size Coil  
Amp Jr. Timer Connector**EG**IP65 Rated 08-Size Coil; DIN 43650 Connector  
IP67 rated if used with sealed mating connector and gasket

# COIL\_08- XXEX/X

E COIL 08 SIZE 



## EY

IP69K Rated 08-Size Coil  
Thermal Shock Dunk Test Rated Coil  
Metri-Pack® 150 Connector

## ER

IP69K Rated 08-Size Coil  
Thermal Shock Dunk Test Rated Coil  
Deutsch DT04-2P Connector



## Coil Part Numbers

Model Code	Part No.	Voltage	Connector	IP Rating	Diode
10EL	4305110	10	Dual leads/no connector	IP69K	
12EL	4305112	12	Dual leads/no connector	IP69K	
24EL/D	4305124	24	Dual leads/no connector	IP69K	Ultra-fast diode
10EL	4308710	10	Dual leads/no connector	IP69K	
12EL	4308712	12	Dual leads/no connector	IP69K	
12EL/Z	4306812	12	Dual leads/no connector	IP69K	Bidirectional zeener diode
12EG	4305862	12	DIN 43650	IP65	
24EG	4305864	24	DIN 43650	IP65	
12EG/Z	4305872	12	DIN 43650	IP65	Bidirectional zeener diode
24EG/Z	4305874	24	DIN 43650	IP65	Bidirectional zeener diode
12EJ	4306112	12	AMP Jr. timer	IP67	
24EJ	4306124	24	AMP Jr. timer	IP67	
12EJ/Z	4305912	12	AMP Jr. timer	IP67	Bidirectional zeener diode
24EJ	4305924	24	AMP Jr. timer	IP67	
12EY	4303412	12	Metri-Pack 150 2M	IP69K	
24EY	4303424	24	Metri-Pack 150 2M	IP69K	
12EY/Z	4303812	12	Metri-Pack 150 2M	IP69K	Bidirectional zeener diode
24EY/Z	4303824	24	Metri-Pack 150 2M	IP69K	Bidirectional zeener diode
10ER	4303610	10	Deutsch DT04-2P	IP69K	
12ER	4303612	12	Deutsch DT04-2P	IP69K	
20ER	4303620	20	Deutsch DT04-2P	IP69K	
24ER	4303624	24	Deutsch DT04-2P	IP69K	
10ER/Z	4304010	10	Deutsch DT04-2P	IP69K	Bidirectional zeener diode
12ER/Z	4304012	12	Deutsch DT04-2P	IP69K	Bidirectional zeener diode
20ER/Z	4304020	20	Deutsch DT04-2P	IP69K	Bidirectional zeener diode
24ER/Z	4304024	24	Deutsch DT04-2P	IP69K	Bidirectional zeener diode

## Overview

### Symbol

#### Description

Magnet wire wound on a molded 30% glass filled bobbin framed in steel and encapsulated with 30% glass filled polyester resin. Coil impregnated with anaerobic sealant.

### Ratings

#### Properties

Magnet wire	U.S. class N 200 °C (392 °F) minimum rating
Mating connector	DT06-2S-P012 - <b>Note:</b> DEUTSCH DT04-2P DELPHI/PACKARD number 12010973 - <b>Note:</b> Weather-Pack 2 terminal male, lead wires 18 AWG

#### Electrical Parameters

Coil resistance at 20 °C (68 °F)	4.83 ohm &#177;3% - <b>Note:</b> 10 Vdc coil 7.2 ohm &#177;3% - <b>Note:</b> 12 Vdc coil 19.0 ohm &#177;5% - <b>Note:</b> 20 Vdc coil 28.8 ohm &#177;5% - <b>Note:</b> 24 Vdc coil 64.8 ohm &#177;5% - <b>Note:</b> 36 Vdc coil 568 ohm - <b>Note:</b> 115 Vdc coil 2304 ohm - <b>Note:</b> 230 Vdc coil
Coil initial current draw	2.07 A - <b>Note:</b> 10 Vdc coil 4.67 A - <b>Note:</b> 12 Vdc coil 1.05 A - <b>Note:</b> 20 Vdc coil 0.83 A - <b>Note:</b> 24 Vdc coil 0.56 A - <b>Note:</b> 36 Vdc coil 0.17 A - <b>Note:</b> 115 Vac coil 0.09 A - <b>Note:</b> 230 Vac coil
Coil initial power consumption	20 W



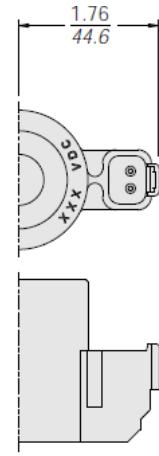
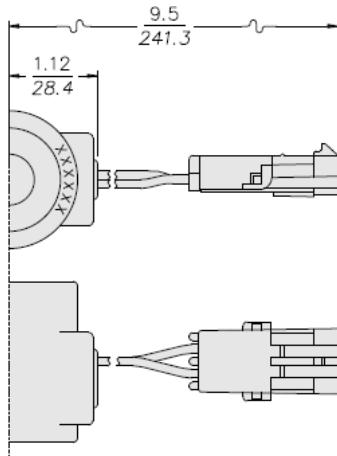
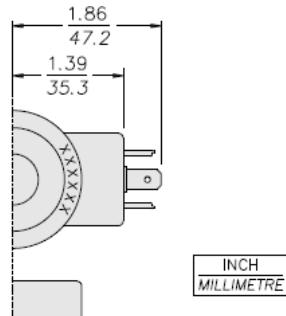
## Bidirectional Zener Diode Parameters

Maximum clamping voltage	45.7 V - <b>Note:</b> 12 Vdc coil 64.8 V - <b>Note:</b> 24 Vdc coil
Maximum peak pulse current	13.2 A - <b>Note:</b> 12 Vdc coil 9.3 A - <b>Note:</b> 24 Vdc coil
Reverse standoff voltage	28.2 V - <b>Note:</b> 12 Vdc coil 40.2 V - <b>Note:</b> 24 Vdc coil
Maximum reverse leakage	5.0 mA - <b>Note:</b> 12, 24 Vdc coil
Breakdown voltage	31.4 to 34.7 V - <b>Note:</b> 12 Vdc coil 44.7 to 49.4 V - <b>Note:</b> 24 Vdc coil
Diode part number	6110163 - <b>Note:</b> 12 Vdc coil (ref) 4000063 - <b>Note:</b> 24 Vdc coil (ref)

## Unidirectional Diode Parameters

Average forward current	3.0 A - <b>Note:</b> Maximum, 12 Vdc coil 1 A - <b>Note:</b> Maximum, 24 Vdc coil
Maximum repetitive peak reverse voltage	50 V - <b>Note:</b> 12 Vdc coils 400 V - <b>Note:</b> 24 Vdc coils

## Dimensions



**G**

DIN 43650  
Connector

Pins 1 and 2 are not  
polarity-sensitive.  
Ground pin is not used.

**W**

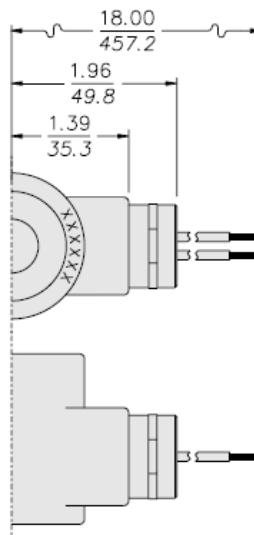
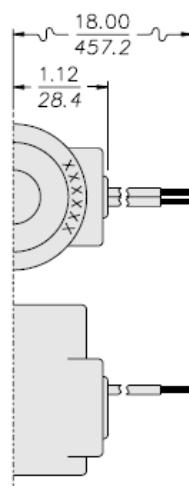
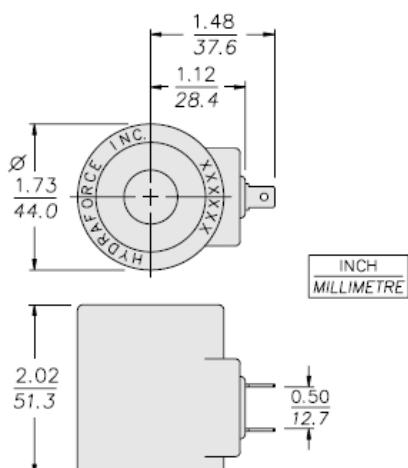
Dual 18 Gauge Leads with  
Weather Pack® Connector

For use with Packard  
part no. 12015792 female plug

**DR**

Integral Deutsch  
Connector

DR Models without Diode  
DR/D Models with Diode  
DR/Z Models with Zener Diode



**S**

Dual Spades  
SAE J858a

**L**

Dual Leads  
18 Gauge

**P**

1/2" Conduit &  
18 Gauge Leads

Optional 36-inch leads  
available. Consult factory.



## Coil Part Numbers

Model Code	Part No.	Voltage	Connector	IP Rating	Diode
24AG	6366024	24	DIN 43650	IP65	
115AG	6366115	115	DIN 43650	IP65	
230AG	6366230	230	DIN 43650	IP65	
24AP	6365024	24	1/2-14 NPT internal thread	IP65	
115AP	6365115	115	1/2-14 NPT internal thread	IP65	
230AP	6365230	230	1/2-14 NPT internal thread	IP65	
10DG	6356010	10	DIN 43650	IP65	
12DG	6356012	12	DIN 43650	IP65	
24DG	6356024	24	DIN 43650	IP65	
10DL	6352010	10	Dual leads/no connector	IP65	
12DL	6352012	12	Dual leads/no connector	IP65	
12DL	6357012	12	Dual leads/no connector	IP65	
24DL	6352024	24	Dual leads/no connector	IP65	
12DL/W	6359412	12	Dual leads/no connector	IP65	
24DL/W	6359424	24	Dual leads/no connector	IP65	
12DL/W/D	6359732	12	Dual leads/no connector	IP65	Ultra-fast diode
24DL/W/D	6359739	24	Dual leads/no connector	IP65	Ultra-fast diode
24DP	6355024	24	1/2-14 NPT internal thread	IP65	
12DR	4301612	12	Deutsch DT04-2P	IP65	
24DR	4301624	24	Deutsch DT04-2P	IP65	
10DR/D	4301891	10	Deutsch DT04-2P	IP65	Ultra-fast diode
12DR/D	4301892	12	Deutsch DT04-2P	IP65	Ultra-fast diode
20DR/D	4301893	20	Deutsch DT04-2P	IP65	Ultra-fast diode
24DR/D	4301894	24	Deutsch DT04-2P	IP65	Ultra-fast diode
12DR/Z	4301862	12	Deutsch DT04-2P	IP65	Bidirectional zeener diode
10DS	6351010	10	Dual spade	IP65	
12DS	6351012	12	Dual spade	IP65	
20DS	6351020	20	Dual spade	IP65	
24DS	6351024	24	Dual spade	IP65	
36DS	6351036	36	Dual spade	IP65	

**Overview****Description****Symbol**

Magnet wire winding overmolded 30% glass filled polyester, and enclosed in a three piece zinc plated metal shell.

**Ratings****Properties**

Magnet wire	U.S. class N 200 °C (392 °F) minimum rating
Mating connector	DT06-2S-P012 - <b>Note:</b> DEUTSCH DT04-2P DELPHI/PACKARD number 12052641 - <b>Note:</b> METRI-PACK 150-2M
Coil metal frame	plated for 1,000 hours of salt spray per ASTM B117-09 before corrosion (red rust)

**Electrical Parameters**

Coil resistance at 20 °C (68 °F)	4.78 ohm &#177;3% - <b>Note:</b> 10 Vdc coil 7.09 ohm &#177;3% - <b>Note:</b> 12 Vdc coil 19.12 ohm &#177;5% - <b>Note:</b> 20 Vdc coil 28.5 ohm &#177;5% - <b>Note:</b> 24 Vdc coil
Coil inductance at 20 °C (68 °F)	14.91 mH &#177;5% - <b>Note:</b> 10 Vdc coil 15.30 mH &#177;5% - <b>Note:</b> 12 Vdc coil 51.51 mH &#177;5% - <b>Note:</b> 20 Vdc coil 70.18 mH &#177;5% - <b>Note:</b> 24 Vdc coil
Coil initial current draw	2.09 A - <b>Note:</b> 10 V coil 1.69 A - <b>Note:</b> 12 V coil 1.05 A - <b>Note:</b> 20 V coil 0.84 A - <b>Note:</b> 24 V coil
Coil initial power consumption	20.92 W - <b>Note:</b> 10 V coil 20.31 W - <b>Note:</b> 12 V coil 20.92 W - <b>Note:</b> 20 V coil 20.21 W - <b>Note:</b> 24 V coil

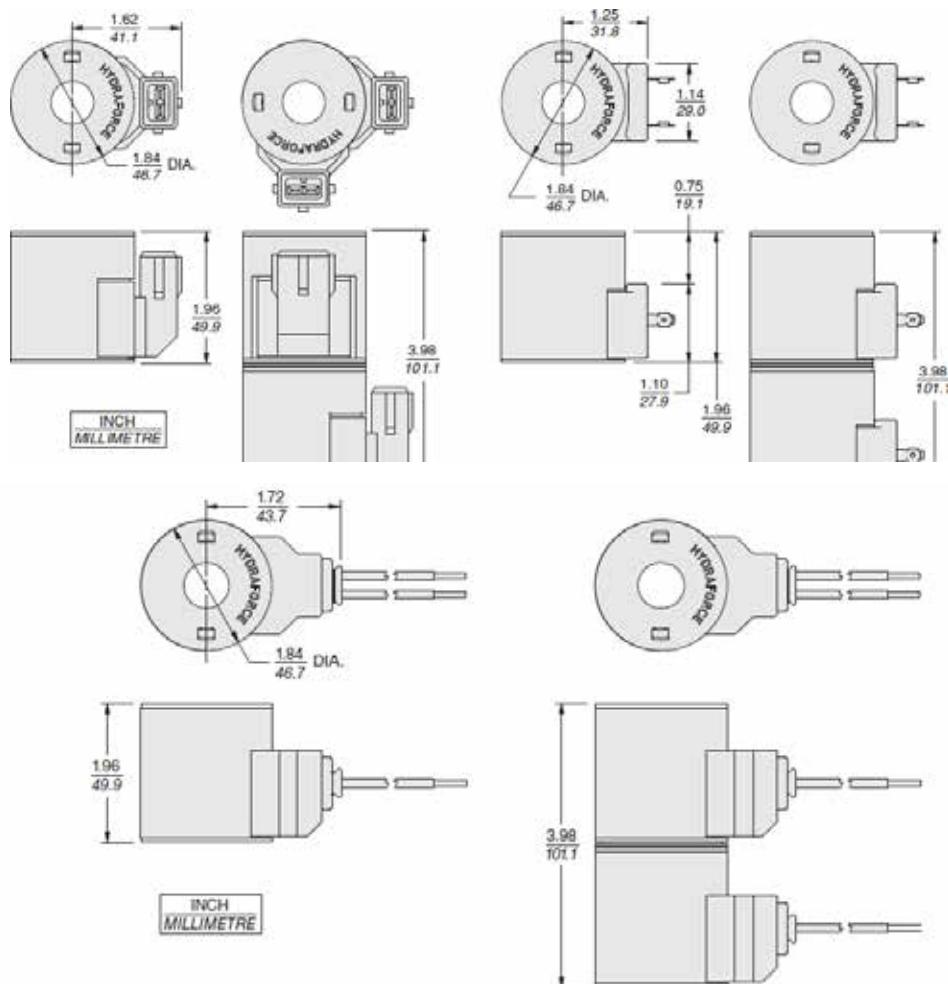
**Bidirectional Zener Diode Parameters**

Maximum clamping voltage	45.7 V - <b>Note:</b> 12 Vdc coil
	64.8 V - <b>Note:</b> 24 Vdc coil
	13.2 A - <b>Note:</b> 12 Vdc coil
Maximum peak pulse current	9.3 A - <b>Note:</b> 24 Vdc coil
Reverse standoff voltage	28.2 V - <b>Note:</b> 12 Vdc coil
	40.2 V - <b>Note:</b> 24 Vdc coil
Maximum reverse leakage	5.0 mA - <b>Note:</b> 12, 24 Vdc coil
Breakdown voltage	31.4 to 34.7 V - <b>Note:</b> 12 Vdc coil
	44.7 to 49.4 V - <b>Note:</b> 24 Vdc coil
Diode part number	6110163 - <b>Note:</b> 12 Vdc coil (ref)
	4000063 - <b>Note:</b> 24 Vdc coil (ref)

**Ultra-fast Diode Parameters (12/24 Vdc Coil)**

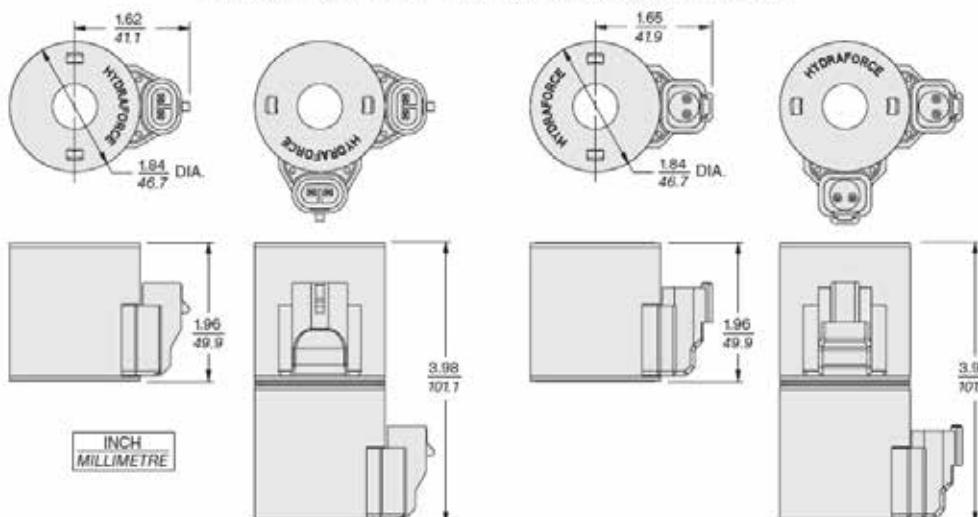
Average forward current	3.5 A
Repetitive peak reverse voltage	600 V
Diode part number	4002474

## Dimensions



## EL

IP69K Rated 10-Size Coil — Thermal Shock Dunk Test Rated Coil



## EY

IP69K Rated 10-Size Coil  
Thermal Shock Dunk Test Rated Coil  
Metri-Pack® 150 Connector

## ER

IP69K Rated 10-Size Coil  
Thermal Shock Dunk Test Rated Coil  
Deutsch DT04-2P Connector



## Coil Part Numbers

Model Code	Part No.	Voltage	Connector	IP Rating	Diode
10EL	4317210	10	Dual leads/no connector	IP69K	
10ER	4303710	10	Deutsch DT04-2P	IP69K	
10ER/Z	4304110	10	Deutsch DT04-2P	IP69K	Bidirectional zeener diode
12EL	4305712	12	Dual leads/no connector	IP69K	
12EL	4317212	12	Dual leads/no connector	IP69K	
12EL/Z	4307112	12	Dual leads/no connector	IP69K	Bidirectional zeener diode
12EL/W/Z	4307212	12	Dual leads/no connector	IP69K	Bidirectional zeener diode
12EG	4305882	12	DIN 43650	IP65	
12EJ	4305612	12	AMP Jr. timer	IP67	
12EY	4303512	12	Metri-Pack 150 2M	IP69K	
12EY/Z	4303912	12	Metri-Pack 150 2M	IP69K	Bidirectional zeener diode
12ER	4303712	12	Deutsch DT04-2P	IP69K	
12ER/Z	4304112	12	Deutsch DT04-2P	IP69K	Bidirectional zeener diode
20ER	4303720	20	Deutsch DT04-2P	IP69K	
24EL	4305724	24	Dual leads/no connector	IP69K	
24EL	4307124	24	Dual leads/no connector	IP69K	
24EL/W/Z	4307224	24	Dual leads/no connector	IP69K	Bidirectional zeener diode
24EG	4305884	24	DIN 43650	IP65	
24EJ	4305624	24	AMP Jr. timer	IP67	
24EY	4303524	24	Metri-Pack 150 2M	IP69K	
24EY/Z	4303924	24	Metri-Pack 150 2M	IP69K	Bidirectional zeener diode
24ER	4303724	24	Deutsch DT04-2P	IP69K	
24ER/Z	4304124	24	Deutsch DT04-2P	IP69K	Bidirectional zeener diode

**Overview****Description****Symbol**

Magnet wire wound on a molded 30% glass filled bobbin and encapsulated with 30% glass filled polyester resin and enclosed in a two-piece zinc-plated metal shell.

**Ratings****Properties**

Magnet wire	U.S. class N 200 °C (392 °F) minimum rating
Mating connector	DT06-2S-P012 - <b>Note:</b> DEUTSCH DT04-2P DELPHI/PACKARD number 12052641 - <b>Note:</b> METRI-PACK 150-2M
Coil metal frame	Plated for 1,000 hours of salt spray per ASTM B117-09 before corrosion (red rust)

**Electrical Parameters**

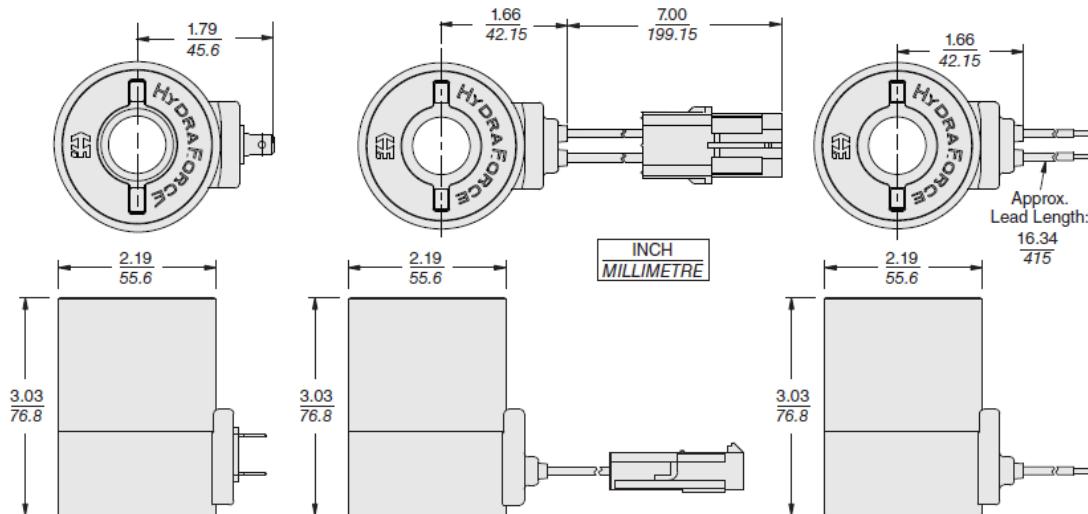
Coil resistance at 20 °C (68 °F)	5.4 ohm &#177;8% - <b>Note:</b> 12 V coil 21.7 ohm &#177;5% - <b>Note:</b> 24 V coil
Coil initial current draw	1.2 A - <b>Note:</b> 12 V coil 0.6 A - <b>Note:</b> 24 V coil
coil-initial-power-consumption	7.8 W

**Bidirectional Zener Diode Parameters**

Maximum clamping voltage	45.7 V - <b>Note:</b> 12 Vdc coil 64.8 V - <b>Note:</b> 24 Vdc coil
Maximum peak pulse current	13.2 A - <b>Note:</b> 12 Vdc coil 9.3 A - <b>Note:</b> 24 Vdc coil
Reverse standoff voltage	28.2 V - <b>Note:</b> 12 Vdc coil 40.2 V - <b>Note:</b> 24 Vdc coil
Maximum reverse leakage	5.0 &#181;A - <b>Note:</b> 12, 24 Vdc coil
Breakdown voltage	31.4 to 34.7 V - <b>Note:</b> 12 Vdc coil 44.7 to 49.4 V - <b>Note:</b> 24 Vdc coil
Diode part number	6110163 - <b>Note:</b> 12 Vdc coil (ref) 4000063 - <b>Note:</b> 24 Vdc coil (ref)



## Dimensions



### ES

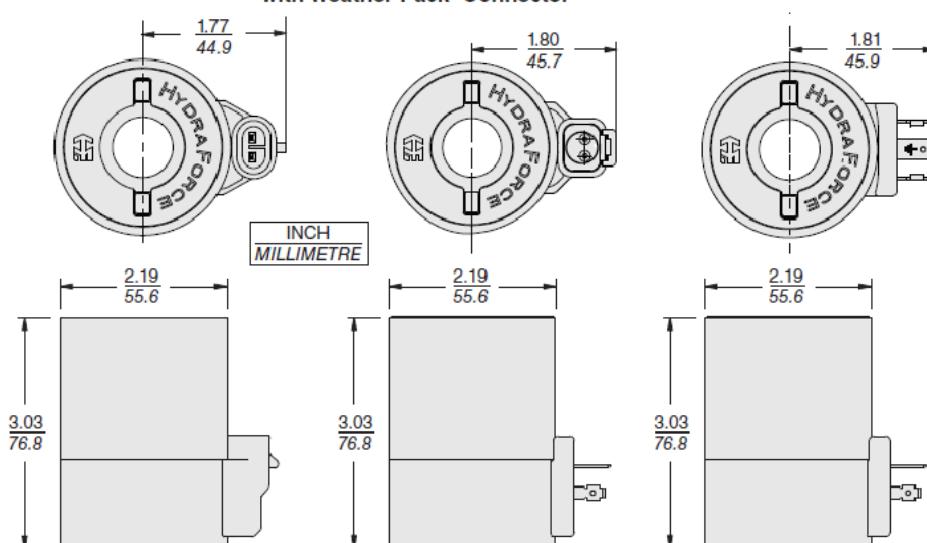
IP65 Rated 12-Size Coil  
Dual Spades SAE J858a

### EW

IP65 Rated 12-Size Coil  
Dual 18 Gauge Leads  
with Weather-Pack® Connector

### EL

IP65 Rated 12-Size Coil  
Dual Leads – 18 Gauge



**Coil Part Numbers**

Model Code	Part No.	Voltage	Connector	IP Rating	Diode
12ES	6851012	12	Dual spade	IP65	
24ES	6851024	24	Dual spade	IP65	
12EL	6852012	12	Dual leads/no connector	IP69K	
12EL/W	6853012	12	Dual leads/no connector	IP69K	
12EG	6956012	12	DIN 43650	IP65	
24EG	6956024	24	DIN 43650	IP65	
12EY	6964012	12	Metri-Pack 150 2M	IP69K	
12ER	4301212	12	Deutsch DT04-2P	IP69K	
24ER	4301224	24	Deutsch DT04-2P	IP69K	
12ER/Z	4305512	12	Deutsch DT04-2P	IP69K	Bidirectional zeener diode
24ER/Z	4305524	24	Deutsch DT04-2P	IP69K	Bidirectional zeener diode



## Overview

### Description

#### Symbol

Magnet wire wound on a molded 30% glass filled bobbin framed in steel and encapsulated with 30% glass filled polyester resin. Coil impregnated with anaerobic sealant.

## Ratings

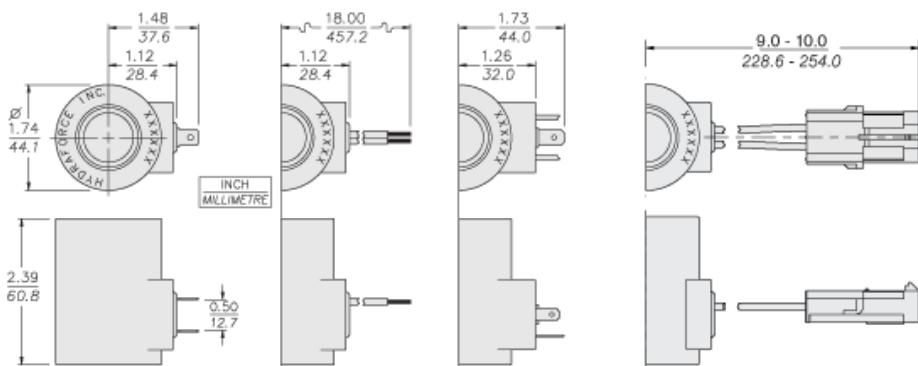
### Properties

Magnet wire	U.S. class N 200 °C (392 °F) minimum rating
Mating connector	DT06-2S-P012 - <b>Note:</b> DEUTSCH DT04-2P DELPHI/PACKARD number 12010973 - <b>Note:</b> Weather-Pack 2 terminal male, lead wires 18 AWG

### Electrical Parameters

Coil resistance at 20 °C (68 °F)	4.5 ohm &#177;3% - <b>Note:</b> 12 Vdc coil 17.9 ohm &#177;5% - <b>Note:</b> 24 Vdc coil
Coil initial current draw	1.5 A - <b>Note:</b> 12 Vdc coil 0.75 A - <b>Note:</b> 24 Vdc coil
Coil initial power consumption	10 W

## Dimensions



## Coil Part Numbers

Model Code	Part No.	Voltage	Connector	IP Rating	Diode
12DS	6507112	12	Dual spade	IP65	
24DS	6507124	24	Dual spade	IP65	
12DL	6507212	12	Dual leads/no connector	IP65	
24DL	6507224	24	Dual leads/no connector	IP65	
12DG	6507612	12	DIN 43650	IP65	
24DG	6507624	24	DIN 43650	IP65	
12DL/W	6507912	12	Dual leads/no connector	IP65	

**Overview****Symbol****Description**

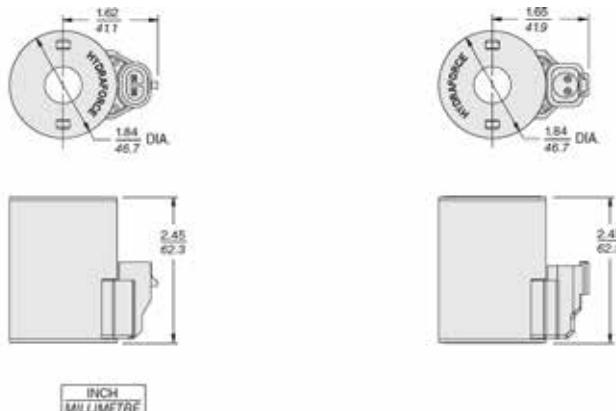
Magnet wire winding overmolded 30% glass filled polyester, and enclosed in a three piece zinc plated metal shell.

**Ratings****Properties**

Magnet wire	U.S. class N 200 °C (392 °F) minimum rating
Mating connector	DT06-2S-P012 - <b>Note:</b> DEUTSCH DT04-2P DELPHI/PACKARD number 12052641 - <b>Note:</b> METRI-PACK 150-2M
Coil metal frame	Plated for 1,000 hours of salt spray per ASTM B117-09 before corrosion (red rust)

**Electrical Parameters**

Coil resistance at 20 °C (68 °F)	4.5 ohm &#177;3% - <b>Note:</b> 12 V coil 17.9 ohm &#177;5% - <b>Note:</b> 24 V coil
Coil initial current draw	1.5 A - <b>Note:</b> 12 V coil 0.75 A - <b>Note:</b> 24 V coil
coil-initial-power-consumption	10 W

**Dimensions**

**EY**  
IP69K Rated 70-Size Coil  
Thermal Shock Dunk Test Rated Coil  
Metri-Pack® 150 Connector

**ER**  
IP69K Rated 70-Size Coil  
Thermal Shock Dunk Test Rated Coil  
Deutsch DT04-2P Connector

**Coil Part Numbers**

Model Code	Part No.	Voltage	Connector	IP Rating	Diode
12EY	4303112	12	Metri-Pack 150 2M	IP69K	
12ER	4303212	12	Deutsch DT04-2P	IP69K	
24ER	4303224	24	Deutsch DT04-2P	IP69K	



## Overview

### Symbol

#### Description

Magnet wire wound on a molded 30% glass filled bobbin framed in steel and encapsulated with 30% glass filled polyester resin. Coil impregnated with anaerobic sealant.

## Ratings

### Properties

Magnet wire U.S. class N 200 °C (392 °F) minimum rating

Mating connector DELPHI/PACKARD number 12010973 - **Note:** Weather-Pack 2 terminal male, lead wires 18 AWG

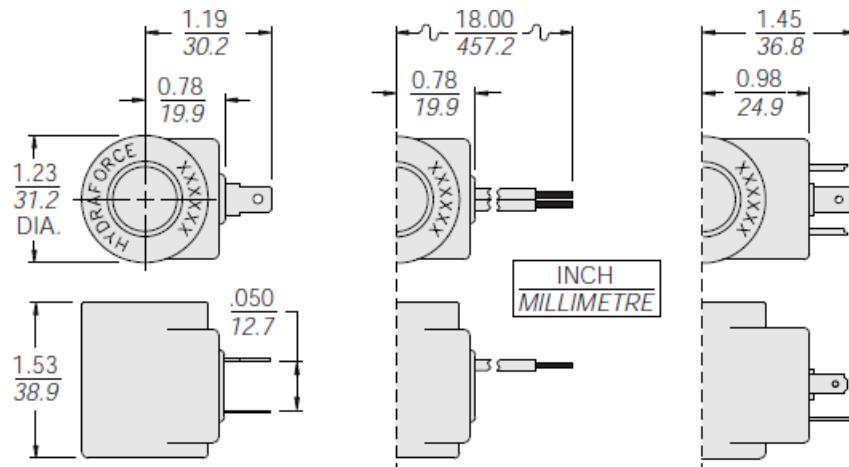
### Electrical Parameters

Coil resistance at 20 °C (68 °F)  
5.4 ohm - **Note:** 12 Vdc coil  
21.7 ohm - **Note:** 24 Vdc coil

Maximum control current  
1.2 A - **Note:** 12 Vdc coil  
0.60 A - **Note:** 24 Vdc coil

Coil initial power consumption 7 W

## Dimensions



**S**  
Dual Spades  
SAE J858a

**L**  
Dual Leads  
18 Gauge

Optional 36-inch leads available. Consult factory.

**G**  
DIN 43650  
Connector

Pins 1 and 2 are not polarity-sensitive.  
Ground pin is not used.

## Coil Part Numbers

Model Code	Part No.	Voltage	Connector	IP Rating	Diode
24DS	6451124	24	Dual spade	IP65	
24DL	6451224	24	Dual leads/no connector	IP65	
12DG	6451612	12	DIN 43650	IP65	
24DG	6451624	24	DIN 43650	IP65	



## Overview

### Description

#### Symbol

Magnet wire wound on a molded 30% glass filled bobbin and encapsulated with 30% glass filled polyester resin. Overmolded coil is framed in steel.

## Ratings

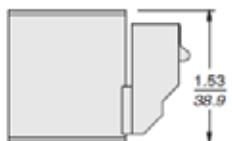
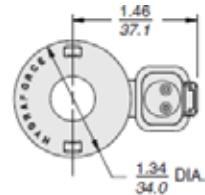
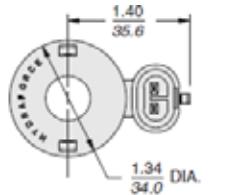
### Properties

Magnet wire	U.S. class N 200 °C (392 °F) minimum rating
Mating connector	DT06-2S-P012 - <b>Note:</b> DEUTSCH DT04-2P DELPHI/PACKARD number 12052641 - <b>Note:</b> METRI-PACK 150-2M
Coil metal frame	Plated for 1,000 hours of salt spray per ASTM B117-09 before corrosion (red rust)

### Electrical Parameters

Coil resistance at 20 °C (68 °F)	5.4 ohm &#177;3% - <b>Note:</b> 12 V coil 21.7 ohm &#177;5% - <b>Note:</b> 24 V coil
Coil initial current draw	1.2 A - <b>Note:</b> 12 V coil 0.6 A - <b>Note:</b> 24 V coil
coil-initial-power-consumption	7.8 W

## Dimensions



INCH  
MILLIMETRE

**EY**

IP69K Rated 08-Size Coil  
Thermal Shock Dunk Test Rated Coll

**ER**

IP69K Rated 08-Size Coil  
Thermal Shock Dunk Test Rated Coll

## Coil Part Numbers

Model Code	Part No.	Voltage	Connector	IP Rating	Diode
12EY	4304812	12	Metri-Pack 150 2M	IP69K	
12ER	4304712	12	Deutsch DT04-2P	IP69K	
24ER	4304724	24	Deutsch DT04-2P	IP69K	

# HYDRAFORCE PARTS PRICE LIST

PRICES EFFECTIVE FOR ALL  
ORDERS FROM 1ST AUG 2022

FROM 1 AUG 2022

Category	Product Type	Option	Code	Description	List Price
BODY	BODY ALLOY	1-5/16"UN	4553840	BODY 20-2 16T	\$405.00
BODY	BODY ALLOY	1-5/8"UN	4553850	BODY 20-2 20T	\$405.00
BODY	BODY IRON	1-5/8"UN	4553870	BODY 20-2 20TD	\$739.00
BODY	BODY ALLOY	7/8" UN	7020660	BODY 10T PV72-2X, FR12-23	\$206.00
BODY	BODY ALLOY	3/4"UN	7021470	BODY 12-6 8T	\$598.00
BODY	BODY ALLOY	1-1/16" UN	7022250	BODY 12-2 12T	\$167.00
BODY	BODY ALLOY	1-5/16"UN	7022260	BODY 12-2 16T	\$174.00
BODY	BODY ALLOY	3/4"UN	7022320	BODY 12-3 8T	\$258.00
BODY	BODY ALLOY	7/8" UN	7022330	BODY 12-3 10T	\$250.00
BODY	BODY ALLOY	1-1/16" UN	7022340	BODY 12-3 12T	\$250.00
BODY	BODY ALLOY		7022450	BODY FD12-40 12D FD- TYPE	\$370.00
BODY	BODY ALLOY	1-1/16" UN	7022470	BODY 12-4 12T	\$332.00
BODY	BODY ALLOY	1/2"BSPP	7022610	BODY VC12-3 G1/2 PORT 4B	\$388.00
BODY	BODY ALLOY	1-5/16"UN	7022660	BODY 16-3 16T	\$351.00
BODY	BODY ALLOY	3/4"UN	7022830	BODY 10-5 8T	\$405.00
BODY	BODY ALLOY	1-5/16"UN	7023130	BODY 20-S3 16T	\$475.00
BODY	BODY ALLOY	1-1/16" UN	7023230	BODY 16-2 12T	\$160.00
BODY	BODY ALLOY	1-5/16"UN	7023240	BODY 16-2 16T	\$172.00
BODY	BODY ALLOY	1-5/16"UN	7023340	BODY 16-S3 16T	\$396.00
BODY	BODY ALLOY	1-1/16" UN	7023440	BODY F/FD16 12T PORTS	\$525.00
BODY	BODY ALLOY	1-5/16"UN	7023460	BODY F/FD16-40 16T PORTS	\$525.00
BODY	BODY ALLOY	1-5/16"UN	7023470	BODY 16-4WAY 16T PORTS	\$525.00
BODY	BODY ALLOY	9/16"UN	7024260	BODY 10-2 6T PORTS	\$98.00
BODY	BODY ALLOY	3/4"UN	7024280	BODY 10-2 8T PORTS	\$101.00
BODY	BODY ALLOY	9/16"UN	7024360	BODY 10-3 6T PORTS	\$130.00
BODY	BODY ALLOY	3/4"UN	7024380	BODY 10-3 8T PORTS	\$130.00
BODY	BODY ALLOY	9/16"UN	7024460	BODY 10-4 6T PORTS	\$148.00
BODY	BODY ALLOY	3/4"UN	7024480	BODY 10-4 8T PORTS	\$148.00
BODY	BODY ALLOY	7/16"UN	7024640	BODY 08-2 4T PORTS	\$115.00
BODY	BODY ALLOY	9/16"UN	7024660	BODY 08-2 6T PORTS	\$88.00
BODY	BODY ALLOY	3/4"UN	7024680	BODY 08-2 8T PORTS	\$88.00
BODY	BODY ALLOY	7/16"UN	7024740	BODY 08-3 4T PORTS	\$144.00
BODY	BODY ALLOY	9/16"UN	7024760	BODY 08-3 6T PORTS	\$115.00
BODY	BODY ALLOY	9/16"UN	7024860	BODY 08-4 6T PORTS	\$134.00
BODY	BODY ALLOY	9/16"UN	7025660	BODY 10-2 6T T PORTS	\$160.00
BODY	BODY ALLOY	3/4"UN	7025680	BODY 10-2 8T T PORTS	\$157.00
BODY	BODY ALLOY	7/8" UN	7026530	BODY 10-S3 10T	\$267.00
BODY	BODY ALLOY		7027400	BODY 12-S3	\$282.00
BODY	BODY ALLOY	1/4"BSPP	7028220	BODY 10-2 2B PORTS GOLD ANODIZE	\$144.00
BODY	BODY ALLOY	3/8"BSPP	7028230	BODY 10-2 3B PORTS	\$140.00
BODY	BODY ALLOY		7028240	BODY 10-2WAY 1/2" BSPP PORTS	\$140.00
BODY	BODY ALLOY	3/8"BSPP	7028330	BODY 10-3WAY 3B PORTS	\$186.00
BODY	BODY ALLOY	3/8"BSPP	7028630	BODY 08-2 3B PORTS	\$144.00
BODY	BODY ALLOY	3/8"BSPP	7028730	BODY 08-3 WAY 3B	\$157.00
BODY	BODY ALLOY	7/8" UN	7029540	BODY 10-2-10T PORTS	\$140.00
BODY	BODY ALLOY	1-5/16"UN	7029540	BODY 42 - 4 WAY 16T	\$1,136.00
BODY	BODY		7073910	BODY 2 X 2 08 SIZE	\$250.00
BODY	BODY IRON	3/4"BSPP	7150220	BODY 12-S6 6BD PD/PE-S6	\$1,056.00
BODY	BODY IRON	1-1/16"UN	7150820	BODY 12-4 12TD DURABAR FD TYPE	\$555.00
BODY	BODY IRON	9/16"UN	7151010	BODY 08-2 6TD	\$186.00
BODY	BODY IRON	3/4"UN	7151020	BODY 08-2 8TD	\$186.00
BODY	BODY IRON	9/16"UN	7151110	BODY 08-3 6TD DURABAR	\$226.00
BODY	BODY IRON	9/16"UN	7151210	BODY 08-4 6TD DURABAR	\$332.00
BODY	BODY IRON	9/16"UN	7151400	BODY 10-2 6TD DURABAR	\$193.00
BODY	BODY IRON	3/4"UN	7151410	BODY 10-2 8TD DURABAR	\$193.00
BODY	BODY IRON	9/16"UN	7151500	BODY 10-3 6TD DURABAR	\$258.00
BODY	BODY IRON	3/4"UN	7151510	BODY 10-3 8TD DURABAR	\$258.00
BODY	BODY IRON	3/4"UN	7151610	BODY 10-S3 8TD DURABAR SPECIAL	\$351.00
BODY	BODY IRON	9/16"UN	7151700	BODY 10-4 6TD DURABAR	\$396.00
BODY	BODY IRON	1-5/16"UN	7152420	BODY 16-4 FD 16TD	\$739.00
BODY	BODY IRON	1-5/16"UN	7153210	BODY 20-S3 16TD DURABAR	\$786.00
BODY	BODY IRON	9/16"UN	7153620	BODY VC-T009 6T EHPR98-T33	\$226.00
BODY	BODY IRON	3/4"UN	7158310	BODY HVC10-4 8HT	\$435.00
BODY	BODY IRON	1-1/16"UN	7158410	BODY, HVC12-2 12HT	\$508.00
BODY	BODY IRON	1-1/16"UN	7158520	BODY, HVC12-3 12HT	\$574.00
BODY	BODY IRON	1-5/16"UN	7159640	BODY HVC16-3SPEC DUCTILE IRON 16HT	\$1,011.00
DIRECTIONAL CONTROL	BRAKE VALVE		BV10-40-0-N	BV10-40-0-N BRAKE VALVE	\$267.00
DIRECTIONAL CONTROL	BRAKE VALVE		HBV10-40-0-U	HBV10-40-0-U BRAKE VALVE	\$286.00
ACCESSORIES	CAVITY PLUG		CP04-2-0-N	CP04-20-N CAVITY PLUG	\$48.00
ACCESSORIES	CAVITY PLUG		CP08-20-P	CP08-20-P CAVITY PLUG	\$56.00
ACCESSORIES	CAVITY PLUG		CP08-30-N	CP08-30-N CAVITY PLUG	\$66.00
ACCESSORIES	CAVITY PLUG		CP08-3A-N	CP08-3A-N CAVITY PLUG	\$73.00
ACCESSORIES	CAVITY PLUG		CP08-3B-N	CP08-3B-N CAVITY PLUG	\$73.00
ACCESSORIES	CAVITY PLUG		CP08-40-N	CP08-40-N CAVITY PLUG	\$73.00
ACCESSORIES	CAVITY PLUG		CP08-40-V	CP08-40-V CAVITY PLUG	\$86.00
ACCESSORIES	CAVITY PLUG		CP08-4L-N	CP08-4L-N CAVITY PLUG	\$101.00
ACCESSORIES	CAVITY PLUG		CP10-20-N	CP10-20-N CAVITY PLUG	\$52.00
ACCESSORIES	CAVITY PLUG		CP10-20-P	CP10-20-P CAVITY PLUG	\$61.00
ACCESSORIES	CAVITY PLUG		CP10-30-N	CP10-30-N CAVITY PLUG	\$73.00
ACCESSORIES	CAVITY PLUG		CP10-30-V	CP10-30-V CAVITY PLUG	\$86.00

Category	Product Type	Option	Code	Description	List Price
ACCESSORIES	CAVITY PLUG		CP10-3A-N	CP10-3A-N CAVITY PLUG	\$92.00
ACCESSORIES	CAVITY PLUG		CP10-3B-N	CP10-3B-N CAVITY PLUG	\$98.00
ACCESSORIES	CAVITY PLUG		CP10-40-N	CP10-40-N CAVITY PLUG	\$86.00
ACCESSORIES	CAVITY PLUG		CP10-530-N	CP10-S30-N CAVITY PLUG	\$73.00
ACCESSORIES	CAVITY PLUG		CP12-20N	CP12-20-N CAVITY PLUG	\$107.00
ACCESSORIES	CAVITY PLUG		CP12-20-P	CP12-20-P CAVITY PLUG	\$140.00
ACCESSORIES	CAVITY PLUG		CP12-30N	CP12-30-N CAVITY PLUG	\$120.00
ACCESSORIES	CAVITY PLUG		CP12-3BN	CP12-3B-N CAVITY PLUG	\$190.00
ACCESSORIES	CAVITY PLUG		CP16-20-N	CP16-20-N CAVITY PLUG	\$120.00
ACCESSORIES	CAVITY PLUG		CP16-40-N	CP16-40-N CAVITY PLUG	\$204.00
ACCESSORIES	CAVITY PLUG		CP16-530-N	CP16-S30-N CAVITY PLUG	\$226.00
ACCESSORIES	CAVITY PLUG		CP42-M30-N	CP42-M30-N CAVITY PLUG	\$299.00
DIRECTIONAL CONTROL	CHECK VALVE		CV04-20-0-N-5	CV04-20-0-N-05 CHECK VALVE	\$56.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-N-10	CV08-20-0-N-10 CHECK VALVE	\$56.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-N-100	CV08-20-0-N-100 CHECK VALVE	\$56.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-N-150	CV08-20-0-N-150 CHECK VALVE	\$56.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-N-200	CV08-20-0-N-200 CHECK VALVE	\$56.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-N-25	CV08-20-0-N-25 CHECK VALVE	\$56.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-N-270	CV08-20-0-N-270 CHECK VALVE	\$56.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-N-4	CV08-20-0-N-04 CHECK VALVE	\$56.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-N-40	CV08-20-0-N-40 CHECK VALVE	\$56.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-N-60	CV08-20-0-N-60 CHECK VALVE	\$56.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-N-M25	CV08-20-0-N-M25 CHECK VALVE	\$56.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-P-10	CV08-20-0-P-10 CHECK VALVE	\$73.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-P-150	CV08-20-0-P-150 CHECK VALVE	\$73.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-V-10	CV08-20-0-V-10 CHECK VALVE	\$66.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-V-200	CV08-20-0-V-200 CHECK VALVE	\$66.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-20-0-V-4	CV08-20-0-V-40 CHECK VALVE	\$66.00
DIRECTIONAL CONTROL	CHECK VALVE		CV08-21-0-N-30	CV08-21-0-N-30 CHECK VALVE	\$86.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-20-0-N-100	CV10-20-0-N-100 CHECK VALVE	\$61.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-20-0-N-15	CV10-20-0-N-15 CHECK VALVE	\$61.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-20-0-N-2	CV10-20-0-N-02 CHECK VALVE	\$61.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-20-0-N-200	CV10-20-0-N-200 CHECK VALVE	\$61.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-20-0-N-30	CV10-20-0-N-30 CHECK VALVE	\$61.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-20-0-N-40	CV10-20-0-N-40 CHECK VALVE	\$61.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-20-0-N-5	CV10-20-0-N-05 CHECK VALVE	\$61.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-20-0-N-70	CV10-20-0-N-70 CHECK VALVE	\$61.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-20-0-V-200	CV10-20-0-V-200 CHECK VALVE	\$73.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-20-0-V-30	CV10-20-0-V-30 CHECK VALVE	\$73.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-20-0-V-5	CV10-20-0-V-05 CHECK VALVE	\$73.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-24-0-N-05	CV10-24-0-N-05 CHECK VALVE	\$92.00
DIRECTIONAL CONTROL	CHECK VALVE		CV10-28-0-N-65/45	CV10-28-0-N-65/45 THERMAL RELIEF	\$167.00
DIRECTIONAL CONTROL	CHECK VALVE		CV12-20-0-N-05	CV12-20-0-N-05 CHECK VALVE	\$134.00
DIRECTIONAL CONTROL	CHECK VALVE		CV12-20-0-N-25	CV12-20-0-N-25 CHECK VALVE	\$134.00
DIRECTIONAL CONTROL	CHECK VALVE		CV12-20-0-N-30	CV12-20-0-N-30 CHECK VALVE	\$134.00
DIRECTIONAL CONTROL	CHECK VALVE		CV12-20-0-N-60	CV12-20-0-N-60 CHECK VALVE	\$134.00
DIRECTIONAL CONTROL	CHECK VALVE		CV12-20-0-N-80	CV12-20-0-N-80 CHECK VALVE	\$134.00
DIRECTIONAL CONTROL	CHECK VALVE		CV12-20-0-V-05	CV12-20-0-V-05 CHECK VALVE	\$152.00
DIRECTIONAL CONTROL	CHECK VALVE		CV12-21-0-N-26	CV12-21-0-N-26 CHECK VALVE	\$174.00
DIRECTIONAL CONTROL	CHECK VALVE		CV12-21-0-N-56	CV12-21-0-N-56 CHECK VALVE	\$174.00
DIRECTIONAL CONTROL	CHECK VALVE		CV12-21-0-N-6	CV12-21-0-N-06 CHECK VALVE	\$174.00
DIRECTIONAL CONTROL	CHECK VALVE		CV16-20-0-N-25	CV16-20-0-N-25 CHECK VALVE	\$167.00
DIRECTIONAL CONTROL	CHECK VALVE		CV16-20-0-N-5	CV16-20-0-N-05 CHECK VALVE	\$167.00
DIRECTIONAL CONTROL	CHECK VALVE		CV16-20-0-N-60	CV16-20-0-N-60 CHECK VALVE	\$167.00
DIRECTIONAL CONTROL	CHECK VALVE		CV16-20-0-P-25	CV16-20-0-P-25 CHECK VALVE	\$206.00
DIRECTIONAL CONTROL	CHECK VALVE		CV16-20-0-V-25	CV16-20-0-V-25 CHECK VALVE	\$190.00
DIRECTIONAL CONTROL	CHECK VALVE		CV16-20-0-V-5	CV16-20-0-V-05 CHECK VALVE	\$190.00
DIRECTIONAL CONTROL	CHECK VALVE		CV16-20T-0-N-100	CV16-20T-0-N-100 CHECK VALVE	\$250.00
DIRECTIONAL CONTROL	CHECK VALVE		CV16-20T-0-N-150	CV16-20T-0-N-150 CHECK VALVE	\$250.00
DIRECTIONAL CONTROL	CHECK VALVE		CV42-M20-0-N-100	CV42-M20-0-N-100 CHECK VALVE	\$304.00
DIRECTIONAL CONTROL	CHECK VALVE		CV42-M20-0-N-15	CV42-M20-0-N-15 CHECK VALVE	\$304.00
DIRECTIONAL CONTROL	CHECK VALVE		CV42-M20-0-N-30	CV42-M20-0-N-30 CHECK VALVE	\$304.00
DIRECTIONAL CONTROL	CHECK VALVE		CV42-M20-0-N-5	CV42-M20-0-N-05 CHECK VALVE	\$304.00
DIRECTIONAL CONTROL	CHECK VALVE		CV42-M20-0-N-60	CV42-M20-0-N-60 CHECK VALVE	\$304.00
DIRECTIONAL CONTROL	CHECK VALVE		CV50-20-0-P-100	CV50-20-0-P-100 CHECK VALVE	\$101.00
DIRECTIONAL CONTROL	CHECK VALVE		CV50-20-0-P-15	CV50-20-0-P-15 CHECK VALVE	\$101.00
DIRECTIONAL CONTROL	CHECK VALVE		CV50-20-0-P-30	CV50-20-0-P-30 CHECK VALVE	\$101.00
DIRECTIONAL CONTROL	CHECK VALVE		CV50-20-0-P-5	CV50-20-0-P-05 CHECK VALVE	\$101.00
DIRECTIONAL CONTROL	CHECK VALVE		CV50-20-0-P-70	CV50-20-0-P-70 CHECK VALVE	\$101.00
DIRECTIONAL CONTROL	CHECK VALVE		CVD08	CVD08 CHECK VALVE DISC	\$52.00
DIRECTIONAL CONTROL	CHECK VALVE		HCV06-20-0-U-05	HCV06-20-0-U-05 CHECK VALVE	\$61.00
DIRECTIONAL CONTROL	CHECK VALVE		HCV08-20-0-U-03	HCV08-20-0-U-03 CHECK VALVE	\$86.00
DIRECTIONAL CONTROL	CHECK VALVE		HCV12-20-0-U-05	HCV12-20-0-U-05 CHECK VALVE	\$140.00
DIRECTIONAL CONTROL	CHECK VALVE		HCV12-20-0-U-25	HCV12-20-0-U-25 CHECK VALVE	\$140.00
DIRECTIONAL CONTROL	CHECK VALVE		HCV12-20-0-U-80	HCV12-20-0-U-80 CHECK VALVE	\$140.00
DIRECTIONAL CONTROL	CHECK VALVE		HCV16-20-0-N-05	HCV16-20-0-N-05 CARTRIDGE	\$204.00
DIRECTIONAL CONTROL	CHECK VALVE		HCV16-20-0-U-25	HCV16-20-0-U-25 CARTRIDGE	\$186.00
DIRECTIONAL CONTROL	CHECK VALVE		HCV16-20-0-U-60	HCV16-20-0-U-60 CARTRIDGE	\$186.00
DIRECTIONAL CONTROL	CHECK VALVE		HCV42-M20-0-U-05	HCV42-M20-0-U-05 CARTRIDGE	\$324.00
DIRECTIONAL CONTROL	CHECK VALVE		HCV42-M20-0-U-30	HCV42-M20-0-U-30 CHECK VALVE	\$324.00
DIRECTIONAL CONTROL	CHECK VALVE		HPC08-30-0-US-140	HPC08-30-0-US-140 CHECK VALVE	\$152.00
DIRECTIONAL CONTROL	CHECK VALVE		PC08-30-0-N	PC08-30-0-N P.O. CHECK VALVE	\$125.00
DIRECTIONAL CONTROL	CHECK VALVE		PC08-30-0-N-120	PC08-30-0-N-120 P.O. CHECK VALVE	\$125.00
DIRECTIONAL CONTROL	CHECK VALVE		PC08-30-0-N-270	PC08-30-0-N-270 P.O. CHECK VALVE	\$125.00
DIRECTIONAL CONTROL	CHECK VALVE		PC08-30-0-N-70	PC08-30-0-N-70 P.O. CHECK VALVE	\$125.00
DIRECTIONAL CONTROL	CHECK VALVE		PC08-30-0-N-90	PC08-30-0-N-90 P.O. CHECK VALVE	\$125.00
DIRECTIONAL CONTROL	CHECK VALVE		PC08-30-0-NS-90	PC08-30-0-NS-90 P.O. CHECK VALVE	\$130.00
DIRECTIONAL CONTROL	CHECK VALVE		PC08-30-0-V-270	PC08-30-0-V-270 P.O. CHECK VALVE	\$140.00
DIRECTIONAL CONTROL	CHECK VALVE		PC08-30-0-VS-270	PC08-30-0-VS-270 P.O. CHECK VALVE	\$140.00

Category	Product Type	Option	Code	Description	List Price
DIRECTIONAL CONTROL	CHECK VALVE		PC10-30-0-N	PC10-30-0-N P.O. CHECK VALVE	\$134.00
DIRECTIONAL CONTROL	CHECK VALVE		PC10-30-0-N-120	PC10-30-0-N-120 P.O. CHECK VALVE	\$134.00
DIRECTIONAL CONTROL	CHECK VALVE		PC10-30-0-N-270	PC10-30-0-N-270 PILOTED CHECK	\$134.00
DIRECTIONAL CONTROL	CHECK VALVE		PC10-30-0-N-70	PC10-30-0-N-70 P.O. CHECK	\$134.00
DIRECTIONAL CONTROL	CHECK VALVE		PC10-30-0-N-90	PC10-30-0-N-90 P.O. CHECK	\$134.00
DIRECTIONAL CONTROL	CHECK VALVE		PC10-30-0-V	PC10-30-0-V P.O. CHECK VALVE	\$148.00
DIRECTIONAL CONTROL	CHECK VALVE		PC10-32-0-N-30	PC10-32-0-N-30 2:1 P.O. CHECK	\$157.00
DIRECTIONAL CONTROL	CHECK VALVE		PC10-32-8T-N-30	PC10-32-8T-N-30 P.O. CHECK VALVE	\$304.00
DIRECTIONAL CONTROL	CHECK VALVE		PC10-38-0-N-100-25	PC10-38-0-N-100/25 CONTROL VALVE	\$220.00
DIRECTIONAL CONTROL	CHECK VALVE		PC10-38-0-N-100-30	PC10-38-0-N-100/30 CONTROL VALVE	\$220.00
DIRECTIONAL CONTROL	CHECK VALVE		PC10-38-0-VS-100-25	PC10-38-0-VS-100/25 CONTROL VALVE	\$240.00
COIL	COIL	DEUTSCH CON.	4301212	COIL 12 12V ER	\$240.00
COIL	COIL	DEUTSCH CON.	4301224	COIL 12 24V ER	\$240.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301512	COIL 08 12V DR	\$73.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301524	COIL 08 24V DR	\$73.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301612	COIL 10 12V DR	\$92.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301624	COIL 10 24V DR	\$92.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301852	COIL 08 12V DR/Z	\$86.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301854	COIL 08 24V DR/Z	\$86.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301862	COIL 10 12V DR/Z	\$101.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301872	COIL 08 12V DR/D	\$86.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301874	COIL 08 24V DR/D	\$86.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301891	COIL 10 10V DR/D	\$101.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301892	COIL 10 12V DR/D	\$101.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301893	COIL 10 20V DR/D	\$101.00
COIL	COIL	INTEGRAL DEUTSCH CON	4301894	COIL 10 24V DR/D	\$101.00
COIL	COIL	DEUTSCH CON.	4302682	COIL D03 12V ER	\$120.00
COIL	COIL	DEUTSCH CON.	4302684	COIL D03 24V ER	\$120.00
COIL	COIL	DEUTSCH CON.	4303212	COIL 70 12V ER	\$140.00
COIL	COIL	DEUTSCH CON.	4303224	COIL 70 24V ER	\$140.00
COIL	COIL	METRIC PACK 150 CON	4303412	COIL 08 12V EY	\$73.00
COIL	COIL	METRIC PACK 150 CON	4303424	COIL 08 24V EY	\$73.00
COIL	COIL	METRIC PACK 150 CON	4303524	COIL 10 24V EY	\$98.00
COIL	COIL	DEUTSCH CON.	4303612	COIL 08 12V ER	\$73.00
COIL	COIL	DEUTSCH CON.	4303620	COIL 08 20V ER	\$73.00
COIL	COIL	DEUTSCH CON.	4303624	COIL 08 24V ER	\$73.00
COIL	COIL	DEUTSCH CON.	4303710	COIL 10 10V ER	\$92.00
COIL	COIL	DEUTSCH CON.	4303712	COIL 10 12V ER	\$92.00
COIL	COIL	DEUTSCH CON.	4303724	COIL 10 24V ER	\$92.00
COIL	COIL	METRIC PACK 150 CON	4303812	COIL 08 12V EY/Z	\$88.00
COIL	COIL	DEUTSCH CON.	4304012	COIL 08 12V ER/Z	\$86.00
COIL	COIL	DEUTSCH CON.	4304024	COIL 08 24V ER/Z	\$86.00
COIL	COIL	DEUTSCH CON.	4304112	COIL 10 12V ER/Z	\$101.00
COIL	COIL	DEUTSCH CON.	4304124	COIL 10 24V ER/Z	\$101.00
COIL	COIL	DEUTSCH CON.	4304712	COIL EH 12V ER	\$73.00
COIL	COIL	DEUTSCH CON.	4304724	COIL EH 24V ER	\$73.00
COIL	COIL	FLYING LEAD	4305112	COIL 08 12V EL	\$88.00
COIL	COIL	FLYING LEAD	4305120	COIL 08 20V EL	\$88.00
COIL	COIL	FLYING LEAD	4305124	COIL 08 24V EL	\$88.00
COIL	COIL	DEUTSCH CON.	4305524	COIL 12 24V ER/Z	\$252.00
COIL	COIL	TIMER CONECTOR	4305624	COIL 10 24V EJ	\$115.00
COIL	COIL	FLYING LEAD	4305712	COIL 10 12V EL	\$113.00
COIL	COIL	DIN CONNECTOR	4305862	COIL 08 12V EG	\$92.00
COIL	COIL	DIN CONNECTOR	4305864	COIL 08 24V EG	\$92.00
COIL	COIL	DIN CONNECTOR	4305882	COIL 10 12V EG	\$115.00
COIL	COIL	DIN CONNECTOR	4305884	COIL 10 24V EG	\$115.00
COIL	COIL	DIN CONNECTOR	4305894	COIL 10 24V EG/Z	\$125.00
COIL	COIL	DUAL SPADE CONNECTOR	6301012	COIL 08 12V DS	\$68.00
COIL	COIL	DUAL SPADE CONNECTOR	6301020	COIL 08 20V DS	\$73.00
COIL	COIL	DUAL SPADE CONNECTOR	6301024	COIL 08 24V DS	\$68.00
COIL	COIL	DUAL LEADS	6302010	COIL 08 10V DL	\$73.00
COIL	COIL	DUAL LEADS	6302012	COIL 08 12V DL	\$68.00
COIL	COIL	DUAL LEADS	6302024	COIL 08 24V DL	\$68.00
COIL	COIL	DIN CONNECTOR	6306012	COIL 08 12V DG	\$86.00
COIL	COIL	DIN CONNECTOR	6306024	COIL 08 24V DG	\$86.00
COIL	COIL	DIN CONNECTOR	6306036	COIL 08 36V DG	\$92.00
COIL	COIL	DUAL LEADS	6309412	COIL 08 12V DL/W	\$92.00
COIL	COIL	DUAL LEADS	6309424	COIL 08 24V DL/W	\$98.00
COIL	COIL	AC DIN CONNECTOR	6316024	COIL 08 24V AG	\$144.00
COIL	COIL	AC DIN CONNECTOR	6316115	COIL 08 115V AG	\$144.00
COIL	COIL	AC DIN CONNECTOR	6316230	COIL 08 230V AG	\$148.00
COIL	COIL	DUAL SPADE CONNECTOR	6351012	COIL 10 12V DS	\$88.00
COIL	COIL	DUAL SPADE CONNECTOR	6351024	COIL 10 24V DS	\$88.00
COIL	COIL	DUAL LEADS	6352012	COIL 10 12V DL	\$88.00
COIL	COIL	DUAL LEADS	6352024	COIL 10 24V DL	\$88.00
COIL	COIL	DIN CONNECTOR	6356010	COIL 10 10V DG	\$101.00
COIL	COIL	DIN CONNECTOR	6356012	COIL 10 12V DG	\$98.00
COIL	COIL	DIN CONNECTOR	6356020	COIL 10 20V DG	\$101.00
COIL	COIL	DIN CONNECTOR	6356024	COIL 10 24V DG	\$98.00
COIL	COIL	DIN CONNECTOR	6356036	COIL 10 36V DG	\$148.00
COIL	COIL	DIN CONNECTOR	6356048	COIL 10 48V DG	\$148.00
COIL	COIL	DIN CONNECTOR	6356110	COIL 10 110V DG	\$148.00
COIL	COIL	DUAL LEADS	6359412	COIL 10 12V DL/W	\$120.00
COIL	COIL	AC DIN CONNECTOR	6366024	COIL 10 24V AG	\$167.00
COIL	COIL	AC DIN CONNECTOR	6366115	COIL 10 115V AG	\$167.00
COIL	COIL	AC DIN CONNECTOR	6366230	COIL 10 230V AG	\$167.00
COIL	COIL	DIN CONNECTOR	6451612	COIL EH 12V DG	\$101.00
COIL	COIL	DIN CONNECTOR	6451624	COIL EH 24V DG	\$101.00
COIL	COIL	DUAL LEADS	6507212	COIL 70 12V DL	\$115.00

Category	Product Type	Option	Code	Description	List Price
COIL	COIL	DUAL LEADS	6507224	COIL 70 24V DL	\$115.00
COIL	COIL	DIN CONNECTOR	6507612	COIL 70 12V DG	\$130.00
COIL	COIL	DIN CONNECTOR	6507624	COIL 70 24V DG	\$130.00
COIL	COIL	DUAL LEADS	6507912	COIL 70 12V DL/W	\$120.00
COIL	COIL	DIN CONNECTOR	6956012	COIL 12 12V EG	\$244.00
COIL	COIL	DIN CONNECTOR	6956024	COIL 12 24V EG	\$244.00
COIL	COIL	METRIC PACK 150 CON	6964012	COIL 12 12V EY	\$240.00
COIL	COIL	METRIC PACK 150 CON	6964024	COIL 12 24V EY	\$240.00
PRESSURE CONTROL	COUNTERBALANCE		CB10-30A-0-N-30	CB10-30A-0-N-30/ CONTROL VALVE	\$435.00
PRESSURE CONTROL	CROSS OVER RELIEF		CR08-38A-0-N-10	CR08-38A-0-N-10/ CROSS OVER RELIEF	\$250.00
PRESSURE CONTROL	CROSS OVER RELIEF		CR08-38A-0-N-30	CR08-38A-0-N-30/ CROSS OVER RELIEF	\$250.00
PRESSURE CONTROL	CROSS OVER RELIEF		CR10-28A-0-N-24	CR10-28A-0-N-24/ CROSS RELIEF VALVE	\$405.00
PRESSURE CONTROL	CROSS OVER RELIEF		CR10-28A-0-N-30	CR10-28A-0-N-30/ CROSS RELIEF VALVE	\$405.00
DIRECTIONAL CONTROL	DUAL CHECK		DC08-40-0-N-135	DC08-40-0-N-135 DUAL CHECK	\$220.00
DIRECTIONAL CONTROL	DUAL CHECK		DC08-40-0-N-25	DC08-40-0-N-25 DUAL CHECK	\$220.00
DIRECTIONAL CONTROL	DUAL CHECK		DC10-40-0-N-25	DC10-40-0-N-25 DUAL CHECK	\$265.00
ELECTRONIC	CONTROLLER		4000350	CONTROLLER ECU-0809	\$2,895.00
ELECTRONIC	CONTROLLER		4204700	EVDR-0201A VALVE CONTROLLER	\$1,306.00
ELECTRONIC	CONTROLLER		4204800	EVDR-0101A CONTROLLER	\$681.00
ELECTRONIC	CONTROLLER		4208230	ECDR-0203A-001 CONTROLLER	\$1,828.00
ELECTRONIC	CONTROLLER		4208560	ECDR-0506A-002 CONTROLLER	\$2,435.00
FLOW CONTROL	FLOW CONTROL		FC08-20F-0-N-C10	FC08-20F-0-N-C10 FLOW CONTROL	\$125.00
FLOW CONTROL	FLOW CONTROL		FC08-20F-0-N-F10	FC08-20F-0-N-F10 FLOW CONTROL	\$125.00
FLOW CONTROL	FLOW CONTROL		FC10-20A-0-N	FC10-20A-0-N FLOW CONTROL VALVE	\$144.00
FLOW CONTROL	FLOW CONTROL		FC10-20A-0-V	FC10-20A-0-V FLOW CONTROL VALVE	\$152.00
FLOW CONTROL	FLOW CONTROL		FC10-20B-0-N	FC10-20B-0-N FLOW CONTROL VALVE	\$167.00
FLOW CONTROL	FLOW CONTROL		FC10-21A-0-N-5	FC10-21A-0-N-05 FLOW CONTROL VALVE	\$160.00
FLOW CONTROL	FLOW CONTROL		FC12-20A-0-N	FC12-20A-0-N FLOW CONTROL VALVE	\$212.00
FLOW CONTROL	FLOW CONTROL		FD50-44-0-N-11	FD50-44-0-N-11 FLOW DIVIDER	\$525.00
FLOW CONTROL	FLOW CONTROL		FD50-45-0-N-22	FD50-45-0-N-22 FLOW DIVIDER	\$250.00
FLOW CONTROL	FLOW CONTROL		FD50-45-0-N-33	FD50-45-0-N-33 FLOW DIVIDER	\$250.00
FLOW CONTROL	FLOW CONTROL		FD50-45-0-N-44	FD50-45-0-N-44 FLOW DIVIDER	\$250.00
FLOW CONTROL	FLOW CONTROL		FD50-45-0-N-55	FD50-45-0-N-55 FLOW DIVIDER	\$250.00
FLOW CONTROL	FLOW CONTROL		FD50-45-0-N-66	FD50-45-0-N-66 FLOW DIVIDER	\$250.00
FLOW CONTROL	FLOW CONTROL		FD50-45-0-N-88	FD50-45-0-N-88 FLOW DIVIDER	\$250.00
FLOW CONTROL	FLOW CONTROL		FD50-45-0-V-33	FD50-45-0-V-33 FLOW DIVIDER	\$250.00
FLOW CONTROL	FLOW CONTROL		FD50-45-0-V-66	FD50-45-0-V-66 FLOW DIVIDER	\$250.00
FLOW CONTROL	FLOW CONTROL		FD52-45-0-N-22	FD52-45-0-N-22 FLOW DIVIDER	\$388.00
FLOW CONTROL	FLOW CONTROL		FD52-45-0-N-44	FD52-45-0-N-44 FLOW DIVIDER	\$388.00
FLOW CONTROL	FLOW CONTROL		FD52-45-0-N-66	FD52-45-0-N-66 FLOW DIVIDER	\$388.00
FLOW CONTROL	FLOW CONTROL		FD56-45-0-N-44	FD56-45-0-N-44 FLOW DIVIDER	\$460.00
FLOW CONTROL	FLOW CONTROL		FD56-45-0-N-66	FD56-45-0-N-66 FLOW DIVIDER	\$460.00
FLOW CONTROL	FLOW CONTROL		FD56-45-0-N-84	FD56-45-0-N-84 FLOW DIVIDER	\$460.00
FLOW CONTROL	FLOW CONTROL		FD56-45-0-N-88	FD56-45-0-N-88 FLOW DIVIDER	\$460.00
FLOW CONTROL	FLOW CONTROL		FD56-45-0-N-99	FD56-45-0-N-99 FLOW DIVIDER	\$460.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N-/0.5	FR08-20F-0-N-/ 0.50 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N/M0.2	FR08-20F-0-N-/ M0.2 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N/M0.3	FR08-20F-0-N-/ M0.3 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N/M0.4	FR08-20F-0-N-/ M0.4 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N/M0.5	FR08-20F-0-N-/ M0.5 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N-/M1.0	FR08-20F-0-N-/ M1.0 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N-/M2.0	FR08-20F-0-N-/ M2.0 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N-/M2.3	FR08-20F-0-N-/ M2.3 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N-/M3.0	FR08-20F-0-N-/ M3.0 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N-/M3.8	FR08-20F-0-N-/ M3.8 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N-/M4.0	FR08-20F-0-N-/ M4.0 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N-/M5.0	FR08-20F-0-N-/ M5.0 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-N/M6.0	FR08-20F-0-N-/ M6.0 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-V/M0.4	FR08-20F-0-V-/ 0.40 FLOW REGULATOR	\$157.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-V/M1.0	FR08-20F-0-V-/ 1.00 FLOW REGULATOR	\$157.00
FLOW CONTROL	FLOW CONTROL		FR08-20F-0-V/M5.0	FR08-20F-0-V-/ M5. FLOW REGULATOR	\$157.00
FLOW CONTROL	FLOW CONTROL		FR08-30F-0-N-/M0.5	FR08-30F-0-N-/ M0.5 FLOW REGULATOR	\$140.00
FLOW CONTROL	FLOW CONTROL		FR08-30F-0-N-/M3.5	FR08-30F-0-N-/ M3.5 FLOW REGULATOR	\$140.00
FLOW CONTROL	FLOW CONTROL		FR10-20F-0-N-/M10	FR10-20F-0-N-/ M10 FLOW REGULATOR	\$152.00
FLOW CONTROL	FLOW CONTROL		FR10-20F-0-N-/M12	FR10-20F-0-N-/ M12 FLOW REGULATOR	\$152.00
FLOW CONTROL	FLOW CONTROL		FR10-20F-0-N-/M15	FR10-20F-0-N-/ M15 FLOW REGULATOR	\$152.00
FLOW CONTROL	FLOW CONTROL		FR10-20F-0-N-/M20	FR10-20F-0-N-/ M20 FLOW REGULATOR	\$152.00
FLOW CONTROL	FLOW CONTROL		FR10-20F-0-N-/M5.0	FR10-20F-0-N-/ M5 FLOW REGULATOR	\$152.00
FLOW CONTROL	FLOW CONTROL		FR10-20F-0-N-/M8.5	FR10-20F-0-N-/ M8.5 FLOW REGULATOR	\$152.00
FLOW CONTROL	FLOW CONTROL		FR10-20F-0-N-/M9	FR10-20F-0-N-/ M9 FLOW REGULATOR	\$152.00
FLOW CONTROL	FLOW CONTROL		FR10-30F-0-N/0.2	FR10-30F-0-N-/ 0.20 FLOW REGULATOR	\$148.00
FLOW CONTROL	FLOW CONTROL		FR10-33A-0-N	FR10-33A-0-N FLOW CONTROL	\$267.00
FLOW CONTROL	FLOW CONTROL		FR10-33E-0-N	FR10-33E-0-N FLOW CONTROL	\$286.00
FLOW CONTROL	FLOW CONTROL		FR10-39A-0-N	FR10-39A-0-N FLOW REGULATOR	\$276.00
FLOW CONTROL	FLOW CONTROL		FR10-39C-0-N	FR10-39C-0-N FLOW CONTROL	\$296.00
FLOW CONTROL	FLOW CONTROL		FR10-39E-0-N	FR10-39E-0-N FLOW REGULATOR	\$296.00
FLOW CONTROL	FLOW CONTROL		FR12-20F-0-N-M34	FR12-20F-0-N-/ M34 FLOW REGULATOR	\$212.00
FLOW CONTROL	FLOW CONTROL		FR12-23A-0-N	FR12-23A-0-N FLOW CONTROL	\$358.00
FLOW CONTROL	FLOW CONTROL		FR12-23A-0-N/M23	FR12-23A-0-N-/ M23 FLOW CONTROL	\$358.00
FLOW CONTROL	FLOW CONTROL		FR12-23A-0-N/M32	FR12-23A-0-N-/ M32 FLOW CONTROL	\$358.00
FLOW CONTROL	FLOW CONTROL		FR12-23E-0-N	FR12-23E-0-N FLOW CONTROL	\$378.00
FLOW CONTROL	FLOW CONTROL		FR12-30F-0-N/M15	FR12-30F-0-N-/ M15 FLOW REGULATOR	\$244.00
FLOW CONTROL	FLOW CONTROL		FR12-30F-0-N/M5	FR12-30F-0-N-/ M5 FLOW REGULATOR	\$244.00
FLOW CONTROL	FLOW CONTROL		FR12-33A-0-N	FR12-33A-0-N FLOW CONTROL	\$515.00
FLOW CONTROL	FLOW CONTROL		FR12-33E-0-N	FR12-33E-0-N FLOW CONTROL	\$535.00
FLOW CONTROL	FLOW CONTROL		FR16-20F-0-N/M56	FR16-20F-0-N-/ M56 FLOW REGULATOR	\$240.00
FLOW CONTROL	FLOW CONTROL		FR16-20F-0-N/M80	FR16-20F-0-N-/ M80 FLOW REGULATOR	\$240.00
FLOW CONTROL	FLOW CONTROL		FR16-20F-0-N/M97	FR16-20F-0-N-/ M97 FLOW REGULATOR	\$240.00
FLOW CONTROL	FLOW CONTROL		FR16-30F-0-N/M70	FR16-30F-0-N-/ M70 FLOW REGULATOR	\$342.00

Category	Product Type	Option	Code	Description	List Price
FLOW CONTROL	FLOW CONTROL		FR50-20F-0-P/M1.0	FR50-20F-0-P-/M1.0 FLOW REGULATOR	\$212.00
FLOW CONTROL	FLOW CONTROL		FR50-23A-0-N	FR50-23A-0-N-/ FLOW REGULATOR	\$311.00
FLOW CONTROL	FLOW CONTROL		FR50-23C-0-N/M4.5	FR50-23C-0-N-/M4.5 FLOW REGULATOR	\$332.00
FLOW CONTROL	FLOW CONTROL		FR50-28A-0-N	FR50-28A-0-N-/ FLOW REGULATOR	\$342.00
FLOW CONTROL	FLOW CONTROL		FRRV10-41FA-0-NM3.0	FRRV10-41F/A-0-N-M3.0/	\$304.00
FLOW CONTROL	FLOW CONTROL		FRRV12-41FA-0-NM23.	FRRV12-41F/A-0-N-M23./ FC REL	\$435.00
FLOW CONTROL	FLOW CONTROL		HPV12-20-0-U-0	HPV12-20-0-U-0 CARTRIDGE	\$753.00
FLOW CONTROL	FLOW CONTROL		HPV12-21-0-U-0	HPV12-21-0-U-0 CARTRIDGE	\$768.00
FLOW CONTROL	FLOW CONTROL		HPV12-30T-0-U-0	HPV12-30T-0-U-0 FLOW CONTROL	\$949.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		HSP10-20-0-U-0	HSP10-20-0-U-0 SOLENOID VALVE	\$358.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		HSP10-47DB-0-U-0	HSP10-47DB-0-U-0 SOLENOID VALVE	\$818.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		HSPEC10-30A-0-U-0	HSPEC10-30A-0-U-0 SOLENOID VALVE	\$759.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		HSPEC12-30A-0-U-0	HSPEC12-30A-0-U-0 SOLENOID VALVE	\$850.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		HSPEC16-30-0-U-0	HSPEC16-30-0-U-0	\$919.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV08-30A-0-N-0	PV08-30A-0-N-0 FLOW CONTROL	\$525.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV08-30AM-0-N-0	PV08-30AM-0-N-0 FLOW CONTROL	\$626.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV08-30BM-0-N-0	PV08-30BM-0-N-0 FLOW CONTROL	\$626.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV42-M30A-0-N-0	PV42-M30A-0-N-0 FLOW CONTROL	\$1,215.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV42-M30B-0-N-0	PV42-M30B-0-N-0 FLOW CONTROL	\$1,215.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV70-30A-0-N-0	PV70-30A-0-N-0 FLOW CONTROL	\$681.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV70-30AG-0-N-0	PV70-30AG-0-N-0 FLOW CONTROL	\$800.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV70-30AM-0-N-0	PV70-30AM-0-N-0 FLOW CONTROL	\$780.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV70-30BG-0-N-0	PV70-30BG-0-N-0 FLOW CONTROL	\$800.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV70-33A-0-N-0	PV70-33A-0-N-0 CARTRIDGE ASSEMBLY	\$634.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV70-33AM-0-N-0	PV70-33AM-0-N-0 CARTRIDGE ASSEMBLY	\$739.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV70-33B-0-N-0	PV70-33B-0-N-0 CARTRIDGE ASSEMBLY	\$634.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV70-33C-0-N-0	PV70-33C-0-N-0 CARTRIDGE ASSEMBLY	\$634.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV72-20-0-N-0	PV72-20-0-N-0 FLOW CONTROL	\$739.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV72-20BG-0-N-0	PV72-20BG-0-N-0 FLOW CONTROL	\$857.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV72-20G-0-N-0	PV72-20G-0-N-0 FLOW CONTROL	\$857.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV72-21-0-N-0	PV72-21-0-N-0 FLOW CONTROL	\$739.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV72-30A-0-N-0	PV72-30A-0-N-0 FLOW CONTROL	\$792.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV72-30AG-0-N-0	PV72-30AG-0-N-0 FLOW CONTROL	\$910.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV72-30B-0-N-0	PV72-30B-0-N-0 FLOW CONTROL	\$792.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	PV72-30BM-0-N-0	PV72-30BM-0-N-0 FLOW CONTROL	\$893.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV72-33A-0-N-0	PV72-33A-0-N-0 FLOW CONTROL	\$705.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV72-33AG-0-N-0	PV72-33AG-0-N-0 FLOW CONTROL	\$827.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV72-33B-0-N-0	PV72-33B-0-N-0 FLOW CONTROL	\$705.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV72-33BG-0-N-0	PV72-33BG-0-N-0 FLOW CONTROL	\$827.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		PV76-30A-0-N-0	PV76-30A-0-N-0 N.C. FLOW CONTROL	\$988.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH GAURD	PV76-30AG-0-N-0	PV76-30AG-0-N-0 N.C. FLOW CONTROL	\$1,108.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP08-20-0-N-0	SP08-20-0-N-0 SOLENOID VALVE	\$296.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP08-20A-0-N-0	SP08-20A-0-N-0 SOLENOID VALVE	\$324.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP08-20M-0-N-0	SP08-20M-0-N-0 SOLENOID VALVE	\$396.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP08-21-0-N-0	SP08-21-0-N-0 SOLENOID VALVE	\$372.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP08-24-0-N-0	SP08-24-0-N-0 SOLENOID VALVE	\$370.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP08-47C-0-N-0	SP08-47C-0-N-0 PROPORTIONAL VALVE	\$345.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP08-47CL-0-N-0	SP08-47CL-0-N-0 SOLENOID VALVE	\$370.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP08-47CM-0-N-0	SP08-47CM-0-N-0 SOLENOID VALVE	\$470.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP08-47D-0-N-0	SP08-47D-0-N-0 PROPORTIONAL VALVE	\$351.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP08-47DB-0-N-0	SP08-47DB-0-N-0 SOLENOID VALVE	\$493.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP08-47DL-0-N-0	SP08-47DL-0-N-0 SOLENOID VALVE	\$378.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP08-57DB-0-N-0	SP08-57DB-0-N-0 SOLENOID VALVE	\$557.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP08-57DM-0-N-0	SP08-57DM-0-N-0 SOLENOID VALVE	\$542.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP10-20-0-N-0	SP10-20-0-N-0 SOLENOID VALVE	\$311.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP10-21-0-N-0	SP10-21-0-N-0 SOLENOID VALVE	\$463.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP10-24-0-N-0	SP10-24-0-N-0 SOLENOID VALVE	\$414.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH KNOB	SP10-24K-0-N-0	SP10-24K-0-N-0 SOLENOID VALVE	\$475.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH PIN	SP10-24P-0-N-0	SP10-24P-0-N-0 SOLENOID VALVE	\$460.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP10-47C-0-N-0	SP10-47C-0-N-0 PROPORTIONAL VALVE	\$414.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP10-47D-0-N-0	SP10-47D-0-N-0 SOLENOID VALVE	\$410.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP10-47DM-0-N-0	SP10-47DM-0-N-0 SOLENOID VALVE	\$535.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP10-57C-0-N-0	SP10-57C-0-N-0 SOLENOID VALVE	\$470.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP10-57D-0-N-0	SP10-57D-0-N-0 SOLENOID VALVE	\$463.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP10-58D-0-N-0	SP10-58D-0-N-0 SOLENOID VALVE	\$470.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP10-58DM-0-N-0	SP10-58DM-0-N-0 SOLENOID VALVE	\$589.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP12-20-0-N-0	SP12-20-0-N-0 SOLENOID VALVE	\$405.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP12-20M-0-N-0	SP12-20M-0-N-0 SOLENOID VALVE	\$508.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP12-21-0-N-0	SP12-21-0-N-0 SOLENOID VALVE	\$463.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SP16-20-0-N-0	SP16-20-0-N-0 SOLENOID VALVE	\$451.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SP16-20M-0-N-0	SP16-20M-0-N-0 SOLENOID VALVE	\$555.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MAN O/RIDE WITH KNUR	SP16-20Y-0-N-0	SP16-20Y-0-N-0 SOLENOID VALVE	\$589.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		SPCL10-32-0-N-0	SPCL10-32-0-N-0 SOLENOID VALVE	\$396.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL	MANUAL OVERRIDE	SPCL10-32M-0-N-0	SPCL10-32M-0-N-0 SOLENOID VALVE	\$496.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		ZL70-30A-0-N-0	ZL70-30A-0-N-0 FLOW CONTROL	\$741.00
PROPORTIONAL VALVES	FLOW CONTROL - PROPORTIONAL		ZL70-30B-0-N-0	ZL70-30B-0-N-0 FLOW CONTROL	\$741.00
ACCESSORIES	HAND PUMP		HP10-20D-0-N	HP10-20D-0-N HAND PUMP	\$250.00
ACCESSORIES	HAND PUMP		HP10-21A-0-N-A	HP10-21A-0-N-A HAND PUMP	\$402.00
ACCESSORIES	HAND PUMP		HP10-21A-0-N-B	HP10-21A-0-N-B HAND PUMP	\$402.00
ACCESSORIES	HAND PUMP		HP10-21B-0-N-A	HP10-21B-0-N-A HAND PUMP	\$402.00
ACCESSORIES	HAND PUMP		HP10-21B-0-N-B	HP10-21B-0-N-B HAND PUMP	\$402.00
ACCESSORIES	HAND PUMP		HP16-21A-0-N	HP16-21A-0-N HAND PUMP	\$525.00
ACCESSORIES	HAND PUMP		HP16-21A-0-V	HP16-21A-0-V HAND PUMP	\$542.00
LOCK VALVE	LOCK VALVE		DCV08-6T-N	DCV08-6T-N LOCK VALVE	\$351.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV08-6T-N-100	DCV08-6T-N-100 LOCK VALVE	\$351.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV08-6T-N-200	DCV08-6T-N-200 LOCK VALVE	\$351.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV08-6T-N-270	DCV08-6T-N-270 LOCK VALVE	\$351.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV08-6T-N-60	DCV08-6T-N-60 LOCK VALVE	\$351.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV08-8T-N	DCV08-8T-N LOCK VALVE	\$351.00

Category	Product Type	Option	Code	Description	List Price
DIRECTIONAL CONTROL	LOCK VALVE		DCV08-8T-N-100	DCV08-8T-N-100 LOCK VALVE	\$351.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV08-8T-N-200	DCV08-8T-N-200 LOCK VALVE	\$351.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV08-8T-N-60	DCV08-8T-N-60 LOCK VALVE	\$351.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV10-6T-N	DCV10-6T-N LOCK VALVE	\$358.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV10-6T-N-100	DCV10-6T-N-100 LOCK VALVE	\$358.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV10-6T-N-200	DCV10-6T-N-200 LOCK VALVE	\$358.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV10-6T-N-40	DCV10-6T-N-40 LOCK VALVE	\$358.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV10-8T-N	DCV10-8T-N LOCK VALVE	\$358.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV10-8T-N-100	DCV10-8T-N-100 LOCK VALVE	\$358.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV10-8T-N-200	DCV10-8T-N-200 LOCK VALVE	\$358.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV10-8T-N-300	DCV10-8T-N-300 LOCK VALVE	\$358.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV10-8T-N-40	DCV10-8T-N-40 LOCK VALVE	\$358.00
DIRECTIONAL CONTROL	LOCK VALVE		DCV10-8T-N-70	DCV10-8T-N-70 LOCK VALVE	\$358.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP08-35-O-N-110	EP08-35-O-N-110 LOGIC ELEMENT	\$134.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP08-35-O-N-150	EP08-35-O-N-150 LOGIC ELEMENT	\$134.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP08-35-O-N-40	EP08-35-O-N-40 LOGIC ELEMENT	\$134.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP08-35-O-N-80	EP08-35-O-N-80 LOGIC ELEMENT	\$134.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP10-S35-O-N-10	EP10-S35-O-N-10 PILOTED ELEMENT	\$160.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP10-S35-O-N-110	EP10-S35-O-N-110 PILOTED ELEMENT	\$160.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP10-S35-O-N-40	EP10-S35-O-N-40 PILOTED ELEMENT	\$160.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP10-S35-O-N-80	EP10-S35-O-N-80 PILOTED ELEMENT	\$160.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP10-S35T-O-N-160	EP10-S35T-O-N-160 LOGIC ELEMENT	\$186.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP10-S35T-O-N-230	EP10-S35T-O-N-230 LOGIC ELEMENT	\$186.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP10-S38-O-N-160	EP10-S38-O-N-160 LOGIC ELEMENT	\$193.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP10-S38-O-N-80	EP10-S38-O-N-80 LOGIC ELEMENT	\$193.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP12-S35-O-N-10	EP12-S35-O-N-10 LOGIC ELEMENT	\$204.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP12-S35-O-N-100	EP12-S35-O-N-100 LOGIC ELEMENT	\$204.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP12-S35-O-N-40	EP12-S35-O-N-40 LOGIC ELEMENT	\$204.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP12-S35-O-N-80	EP12-S35-O-N-80 LOGIC ELEMENT	\$204.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP12-S35T-O-N-160	EP12-S35T-O-N-160 LOGIC ELEMENT	\$220.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP12-S35T-O-N-240	EP12-S35T-O-N-240 LOGIC ELEMENT	\$220.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP12-S35TG-O-N-160	EP12-S35TG-O-N-160 LOGIC ELEMENT	\$240.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP16-S35-O-N-70	EP16-S35-O-N-70 LOGIC ELEMENT	\$204.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP16-S35T-O-N-110	EP16-S35T-O-N-110 LOGIC ELEMENT	\$250.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP16-S35T-O-N-160	EP16-S35T-O-N-160 LOGIC ELEMENT	\$250.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP16-S35T-O-N-240	EP16-S35T-O-N-240 LOGIC ELEMENT	\$250.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP16-S35T-O-V-110	EP16-S35T-O-V-110 LOGIC ELEMENT	\$276.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP16-S35T-O-V-160	EP16-S35T-O-V-160 LOGIC ELEMENT	\$276.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP16-S35T-O-V-240	EP16-S35T-O-V-240 LOGIC ELEMENT	\$276.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP20-S35-O-N-160	EP20-S35-O-N-160 ELEMENT (PILOTED)	\$358.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP20-S35-O-N-20	EP20-S35-O-N-20 ELEMENT (PILOTED)	\$358.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP20-S35-O-N-80	EP20-S35-O-N-80 ELEMENT (PILOTED)	\$358.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP20-S38-O-P-40	EP20-S38-O-P-40 LOGIC ELEMENT	\$496.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP20-S38-O-P-80	EP20-S38-O-P-80 LOGIC ELEMENT	\$496.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EP20-S39-O-P-160	EP20-S39-O-P-160 LOGIC ELEMENT	\$616.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EPFR50-S35T-O-N-160	EPFR50-S35T-O-N-160 PILOTED ELEMENT	\$311.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EPFR50-S35T-O-N-230	EPFR50-S35T-O-N-230 PILOTED ELEMENT	\$311.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EPFR52-S35T-O-N-240	EPFR52-S35T-O-N-240 PILOTED ELE.	\$342.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EPFR58-35-O-N-110	EPFR58-35-O-N-110 LOGIC ELEMENT	\$232.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		ER10-S30-O-N	ER10-S30-O-N CARTRIDGE	\$204.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV10-S34-O-N-10	EV10-S34-O-N-10 VENTED ELEMENT	\$186.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV10-S34-O-N-110	EV10-S34-O-N-110 VENTED ELEMENT	\$186.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV10-S34-O-N-80	EV10-S34-O-N-80 VENTED ELEMENT	\$186.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV10-S34T-O-N-160	EV10-S34T-O-N-160 LOGIC ELEMENT	\$204.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV12-S34-O-N-10	EV12-S34-O-N-10 CARTRIDGE	\$218.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV12-S34-O-N-100	EV12-S34-O-N-100 CARTRIDGE	\$218.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV12-S34-O-N-80	EV12-S34-O-N-80 CARTRIDGE	\$218.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV16-S34-O-N-10	EV16-S34-O-N-10 LOGIC ELEMENT	\$232.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV16-S34-O-N-70	EV16-S34-O-N-70 LOGIC ELEMENT	\$232.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV16-S34T-O-N-160	EV16-S34T-O-N-160 LOGIC ELEMENT	\$267.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV16-S34T-O-N-240	EV16-S34T-O-N-240 LOGIC ELEMENT	\$267.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV20-S34-O-N-20	EV20-S34-O-N-20 ELEMENT (VENTED)	\$370.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV20-S34-O-P-50	EV20-S34-O-P-50 ELEMENT (VENTED)	\$451.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		EV20-S34-O-P-80	EV20-S34-O-P-80 ELEMENT (VENTED)	\$451.00
DIRECTIONAL CONTROL	LOGIC ELEMENT		HEP42-S35-O-U-80	HEP42-S35-O-U-80 CARTRIDGE	\$405.00
DIRECTIONAL CONTROL	MANUAL VALVE	CABLE OVERRIDE	MP08-20J-O-N	MP08-20J-O-N MANUAL PULL VALVE	\$180.00
DIRECTIONAL CONTROL	MANUAL VALVE	PLASTIC KNOB	MP08-20K-O-N	MP08-20K-O-N MANUAL PULL VALVE	\$174.00
DIRECTIONAL CONTROL	MANUAL VALVE	THREADED SPRING RETURN	MP08-20T-O-N	MP08-20T-O-N MANUAL PULL VALVE	\$160.00
DIRECTIONAL CONTROL	MANUAL VALVE	KNOB W/ POSITION PIN	MP08-30D-O-N	MP08-30D-O-N MANUAL PULL VALVE	\$250.00
DIRECTIONAL CONTROL	MANUAL VALVE	CABLE OVERRIDE	MP08-30J-O-N	MP08-30J-O-N MANUAL PULL VALVE	\$250.00
DIRECTIONAL CONTROL	MANUAL VALVE	PLASTIC KNOB	MP08-30K-O-N	MP08-30K-O-N MANUAL PULL VALVE	\$244.00
DIRECTIONAL CONTROL	MANUAL VALVE	THREADED SPRING RETURN	MP08-30T-O-N	MP08-30T-O-N MANUAL PULL VALVE	\$232.00
DIRECTIONAL CONTROL	MANUAL VALVE	PLASTIC KNOB	MP08-34K-O-N	MP08-34K-O-N MANUAL PULL VALVE	\$244.00
DIRECTIONAL CONTROL	MANUAL VALVE	THREADED SPRING RETURN	MP08-34T-O-N	MP08-34T-O-N MANUAL PULL VALVE	\$232.00
DIRECTIONAL CONTROL	MANUAL VALVE	PLASTIC KNOB	MP08-40K-O-N	MP08-40K-O-N MANUAL PULL VALVE	\$276.00
DIRECTIONAL CONTROL	MANUAL VALVE	KNOB W/ POSITION PIN	MP10-20D-O-N	MP10-20D-O-N MANUAL PULL VALVE	\$180.00
DIRECTIONAL CONTROL	MANUAL VALVE	CABLE OVERRIDE	MP10-20J-O-N	MP10-20J-O-N MANUAL PULL VALVE	\$186.00
DIRECTIONAL CONTROL	MANUAL VALVE	PLASTIC KNOB	MP10-20K-O-N	MP10-20K-O-N MANUAL PULL VALVE	\$174.00
DIRECTIONAL CONTROL	MANUAL VALVE	THREADED SPRING RETURN	MP10-20T-O-N	MP10-20T-O-N MANUAL PULL VALVE	\$167.00
DIRECTIONAL CONTROL	MANUAL VALVE	PLASTIC KNOB	MP10-22K-O-N	MP10-22K-O-N MANUAL PULL VALVE	\$250.00
DIRECTIONAL CONTROL	MANUAL VALVE	RED KNOB W/POS PIN	MP10-22L-O-N	MP10-22L-O-N MANUAL PULL VALVE	\$258.00
DIRECTIONAL CONTROL	MANUAL VALVE	RED KNOB W/POS PIN	MP10-22L-O-V	MP10-22L-O-V MANUAL PULL VALVE	\$272.00
DIRECTIONAL CONTROL	MANUAL VALVE	KNOB W/ POSITION PIN	MP10-40D-O-N	MP10-40D-O-N MANUAL PULL VALVE	\$286.00
DIRECTIONAL CONTROL	MANUAL VALVE	THREADED SPRING RETURN	MP10-40T-O-N	MP10-40T-O-N MANUAL PULL VALVE	\$267.00
DIRECTIONAL CONTROL	MANUAL VALVE	PLASTIC KNOB	MP10-42K-O-N	MP10-42K-O-N MANUAL PULL VALVE	\$282.00
DIRECTIONAL CONTROL	MANUAL VALVE		MR10-20-A-O-N	MR10-20A-O-N MANUAL ROTARY VALVE	\$220.00
DIRECTIONAL CONTROL	MANUAL VALVE		MR10-20-B-O-N	MR10-20B-O-N MANUAL ROTARY VALVE	\$220.00
DIRECTIONAL CONTROL	MANUAL VALVE		MR10-20-C-O-N	MR10-20C-O-N MANUAL ROTARY VALVE	\$220.00
DIRECTIONAL CONTROL	MANUAL VALVE		MR10-31-O-N	MR10-31-O-N CARTRIDGE ASSEMBLY	\$252.00

Category	Product Type	Option	Code	Description	List Price
DIRECTIONAL CONTROL	MANUAL VALVE		MR10-40-0-N	MR10-40-0-N CARTRIDGE ASSEMBLY	\$363.00
DIRECTIONAL CONTROL	MANUAL VALVE		MR10-47A-0-N	MR10-47A-0-N CARTRIDGE ASSEMBLY	\$378.00
DIRECTIONAL CONTROL	MANUAL VALVE		MR10-47B-0-N	MR10-47B-0-N CARTRIDGE ASSEMBLY	\$378.00
DIRECTIONAL CONTROL	MANUAL VALVE		MR10-47C-0-N	MR10-47C-0-N CARTRIDGE ASSEMBLY	\$378.00
DIRECTIONAL CONTROL	MANUAL VALVE		MR10-47D-0-N	MR10-47D-0-N CARTRIDGE ASSEMBLY	\$378.00
DIRECTIONAL CONTROL	MANUAL VALVE		MV08-22-N	MV08-22-0-N MANUAL RELEASE VALVE	\$157.00
FLOW CONTROL	NEEDLE VALVE		NV08-20A-0-N	NV08-20A-0-N NEEDLE VALVE	\$113.00
FLOW CONTROL	NEEDLE VALVE		NV08-20B-0-N	NV08-20B-0-N NEEDLE VALVE	\$140.00
FLOW CONTROL	NEEDLE VALVE		NV08-20C-0-N	NV08-20C-0-N NEEDLE VALVE CARTRIDG	\$125.00
FLOW CONTROL	NEEDLE VALVE		NV08-20D-0-N	NV08-20D-0-N NEEDLE VALVE	\$130.00
FLOW CONTROL	NEEDLE VALVE		NV08-20D-V	NV08-20D-V NEEDLE VALVE	\$140.00
FLOW CONTROL	NEEDLE VALVE		NV08-21E-0-N	NV08-21E-0-N NEEDLE VALVE W/KNOB	\$130.00
FLOW CONTROL	NEEDLE VALVE		NV08-23A-0-N	NV08-23A-0-N NEEDLE VALVE	\$134.00
FLOW CONTROL	NEEDLE VALVE		NV08-23B-0-N	NV08-23B-0-N NEEDLE VALVE	\$157.00
FLOW CONTROL	NEEDLE VALVE		NV10-20A-0-N	NV10-20A-0-N NEEDLE VALVE	\$113.00
FLOW CONTROL	NEEDLE VALVE		NV10-20B-0-N	NV10-20B-0-N NEEDLE VALVE	\$140.00
FLOW CONTROL	NEEDLE VALVE		NV10-20C-0-N	NV10-20C-0-N NEEDLE VALVE	\$130.00
FLOW CONTROL	NEEDLE VALVE		NV10-21E-0-N	NV10-21E-0-N NEEDLE VALVE	\$140.00
FLOW CONTROL	NEEDLE VALVE		NV10-21T-0-N	NV10-21T-0-N NEEDLE VALVE	\$120.00
FLOW CONTROL	NEEDLE VALVE		NV10-22A-0-N	NV10-22A-0-N NEEDLE VALVE	\$130.00
FLOW CONTROL	NEEDLE VALVE		NV10-22C-0-N	NV10-22C-0-N NEEDLE VALVE	\$144.00
FLOW CONTROL	NEEDLE VALVE		NV12-20A-0-N-0	NV12-20A-0-N NEEDLE VALVE	\$193.00
FLOW CONTROL	NEEDLE VALVE		NV12-20B-0-N-0	NV12-20B-0-N NEEDLE VALVE	\$220.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		HPD16-44-0-U-150	HPD16-44-0-U-150 PILOTED 5-WAY	\$451.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		HPD16-45-0-U-150	HPD16-45-0-U-150 PILOTED 5-WAY	\$451.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		HPD16-S50-0-US-150	HPD16-S50-0-US-150 PILOTED 4-WAY	\$488.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		HPD42-S50-0-US-160	HPD42-S50-0-US-160 PILOTED 4 WAY	\$827.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		HPD42-S61-0-U-160	HPD42-S61-0-U-160 PILOTED 4-WAY	\$897.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		HPD42-S67C-0-U-170	HPD42-S67C-0-U-170 PILOTED 5 WAY	\$897.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		HPE16-45-0-U	HPE16-45-0-U CARTRIDGE	\$692.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		HPE42-M44-0-U	HPE42-M44-0-U CARTRIDGE	\$838.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD08-41-0-N-60	PD08-41-0-N-60 PILOTED 3-WAY	\$193.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD08-41N-0-N-60	PD08-41N-0-N-60 PILOTED 3-WAY	\$204.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-30-0-N-110	PD10-30-0-N-110 PILOTED 2-WAY	\$186.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-30-0-N-170	PD10-30-0-N-170 PILOTED 2-WAY	\$186.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-30-0-N-40	PD10-30-0-N-40 PILOTED 2-WAY	\$186.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-30-0-N-60	PD10-30-0-N-60 PILOTED 2-WAY	\$186.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-30-0-NS-110	PD10-30-0-NS-110 PILOTED 2-WAY	\$190.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-30-0-NS-170	PD10-30-0-NS-170 PILOTED 2-WAY	\$190.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-30-0-V-40	PD10-30-0-V-40 PILOTED 2-WAY	\$204.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-32-0-N-110	PD10-32-0-N-110 PILOTED 2-WAY	\$186.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-32-0-N-170	PD10-32-0-N-170 PILOTED 2-WAY	\$186.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-32-0-N-40	PD10-32-0-N-40 PILOTED 2-WAY	\$186.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-32-0-N-60	PD10-32-0-N-60 PILOTED 2-WAY	\$186.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-32-0-NS-170	PD10-32-0-NS-170 PILOTED 2-WAY	\$186.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-34-0-N-110	PD10-34-0-N-110 PILOTED 2-WAY	\$193.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-34-0-N-170	PD10-34-0-N-170 PILOTED 2-WAY	\$193.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-34-0-N-40	PD10-34-0-N-40 PILOTED 2-WAY	\$193.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-34-0-N-60	PD10-34-0-N-60 PILOTED 2-WAY	\$193.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-34-0-NS-110	PD10-34-0-NS-110 PILOTED 2-WAY	\$199.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-35-0-N-110	PD10-35-0-N-110 PILOTED 2-WAY	\$193.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-35-0-N-170	PD10-35-0-N-170 PILOTED 2-WAY	\$193.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-35-0-N-40	PD10-35-0-N-40 PILOTED 2-WAY	\$193.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-35-0-N-60	PD10-35-0-N-60 PILOTED 2-WAY	\$193.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-35-0-NS-170	PD10-35-0-NS-170 PILOTED 2-WAY	\$193.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-40-0-N-110	PD10-40-0-N-110 PILOTED 3-WAY	\$199.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-40-0-N-130	PD10-40-0-N-130 PILOTED 3-WAY	\$199.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-40-0-N-170	PD10-40-0-N-170 PILOTED 3-WAY	\$199.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-40-0-N-40	PD10-40-0-N-40 PILOTED 3-WAY	\$199.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-40-0-N-60	PD10-40-0-N-60 PILOTED 3-WAY	\$199.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-40-0-NS-110	PD10-40-0-NS-110 PILOTED 3-WAY	\$204.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-40-0-NS-170	PD10-40-0-NS-170 PILOTED 3-WAY	\$204.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-40-0-N-170	PD10-40-0-N-170 PILOTED 3-WAY	\$206.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-40N-0-NS-110	PD10-40N-0-NS-110 PILOTED 3-WAY	\$212.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-41-0-N-110	PD10-41-0-N-110 PILOTED 3-WAY	\$204.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-41-0-N-170	PD10-41-0-N-170 PILOTED 3-WAY	\$204.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-41-0-N-60	PD10-41-0-N-60 PILOTED 3-WAY	\$204.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-41-0-NS-110	PD10-41-0-NS-110 PILOTED 3-WAY	\$204.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-41T-0-N-200	PD10-41T-0-N-200 PILOTED 3-WAY	\$258.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-42-0-N-110	PD10-42-0-N-110 PILOTED 3-WAY	\$204.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-42-0-NS-110	PD10-42-0-NS-110 PILOTED 3-WAY	\$204.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-42-0-VS-110	PD10-42-0-VS-110 PILOTED 3-WAY	\$220.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-44-0-N-170	PD10-44-0-N-170 PILOTED 2-WAY	\$199.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-44-0-N-60	PD10-44-0-N-60 PILOTED 2-WAY	\$199.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-44-0-VS-110	PD10-44-0-VS-110 PILOTED 2-WAY	\$220.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-45-0-N-110	PD10-45-0-N-110 PILOTED 2-WAY	\$199.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-45-0-N-60	PD10-45-0-N-60 PILOTED 2-WAY	\$199.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-45-0-N-230	PD10-45-0-N-230 PILOTED 4-WAY	\$282.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD10-562-0-N-150	PD10-562-0-N-150 PILOTED 5 WAY	\$311.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-30-0-N-110	PD12-30-0-N-110 PILOTED 2-WAY	\$250.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-30-0-N-170	PD12-30-0-N-170 PILOTED 2-WAY	\$250.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-34-0-N-110	PD12-34-0-N-110 PILOTED 2-WAY	\$212.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-34-0-N-170	PD12-34-0-N-170 PILOTED 2-WAY	\$250.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-34-0-NS-110	PD12-34-0-NS-110 PILOTED 2-WAY	\$258.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-40-0-N-110	PD12-40-0-N-110 PILOTED 3-WAY	\$296.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-40-0-NS-110	PD12-40-0-NS-110 PILOTED 3-WAY	\$296.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-40-0-NS-170	PD12-40-0-NS-170 PILOTED 3-WAY	\$296.00

Category	Product Type	Option	Code	Description	List Price
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-40N-0-PS-110	PD12-40N-0-PS-110 PILOTED 3-WAY	\$388.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-40-N-170	PD12-40-0-N-170 PILOTED 3-WAY	\$296.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-41-O-N-110	PD12-41-0-N-110 PILOTED 3-WAY	\$296.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-41-O-N-170	PD12-41-0-N-170 PILOTED 3-WAY	\$296.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-44-O-N-110	PD12-44-0-N-110 PILOTED 2-WAY	\$296.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-44-O-N-170	PD12-44-0-N-170 PILOTED 2-WAY	\$296.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-45-O-N-170	PD12-45-0-N-170 PILOTED 3-WAY	\$296.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-S50-O-N-110	PD12-S50-0-N-110 PILOTED 4-WAY	\$332.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-S50-O-NS-110	PD12-S50N-0-NS-110 PILOTED 4-WAY	\$332.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-S60N-O-N-110	PD12-S60N-0-N-110 PILOTED 5-WAY	\$370.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD12-S61N-O-N-110	PD12-S61N-0-N-110 CARTRIDGE	\$372.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-40-O-N-110	PD16-40-0-N-110 PILOTED 3-WAY	\$356.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-40-O-N-80	PD16-40-0-N-80 PILOTED 3-WAY	\$356.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-40-O-VS-170	PD16-40-0-VS-170 PILOTED 3-WAY	\$396.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-40N-O-VS-170	PD16-40N-0-VS-170 PILOTED 3-WAY	\$405.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-41-O-N-110	PD16-41-0-N-110 PILOTED 3-WAY	\$356.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-41-O-N-170	PD16-41-0-N-170 PILOTED 3-WAY	\$356.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-41-O-N-60	PD16-41-0-N-60 PILOTED 3-WAY	\$356.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-42-O-N-110	PD16-42-0-N-110 PILOTED 3-WAY	\$356.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-44-O-N-170	PD16-44-0-N-170 PILOTED 2-WAY	\$356.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-44-O-NS-110	PD16-44-0-NS-110 PILOTED 2-WAY	\$358.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-44-O-NS-170	PD16-44-0-NS-170 PILOTED 2-WAY	\$358.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-45-O-N-170	PD16-45-0-N-170 PILOTED 2-WAY	\$345.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-45-O-VS-170	PD16-45-0-VS-170 PILOTED 2-WAY	\$388.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-S60N-O-N-170	PD16-S60N-0-N-170 PILOTED 5-WAY	\$396.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-S61N-O-N-170	PD16-S61N-0-N-170 PILOTED 5-WAY	\$396.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-S61N-O-VS-170	PD16-S61N-0-VS-170 PILOTED 5-WAY	\$460.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-S67C-O-N-170	PD16-S67C-0-N-170 PILOTED 5-WAY	\$405.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-S67D-O-N-110	PD16-S67D-0-N-110 PILOTED 5-WAY	\$405.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD16-S67D-O-N-170	PD16-S67D-0-N-170 PILOTED 5-WAY	\$405.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD42-M40-O-N-160	PD42-M40-0-N-160 PILOTED 3-WAY	\$713.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD42-M40-O-P-160	PD42-M40-0-P-160 PILOTED 3-WAY	\$843.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD42-M40N-O-N-160	PD42-M40N-0-N-160 PILOTED 3-WAY	\$731.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD42-M41-O-PS-160	PD42-M41-0-PS-160 PILOTED 3-WAY	\$850.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD42-M42-O-N-160	PD42-M42-0-N-160 PILOTED 3-WAY	\$713.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD42-M42-O-P-160	PD42-M42-0-P-160 PILOTED 3-WAY	\$843.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD42-M42-O-PS-160	PD42-M42-0-PS-160 PILOTED 3-WAY	\$850.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD42-M45-O-N-160	PD42-M45-0-N-160 PILOTED 2-WAY	\$713.00
DIRECTIONAL CONTROL	PILOTED SPOOL VALVE		PD42-S60N-O-N-170	PD42-S60N-0-N-170 PILOTED 5 WAY	\$726.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC08-32-O-N-150	EC08-32-O-N-150 COMPENSATOR	\$157.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC08-32-O-N-250	EC08-32-O-N-250 COMPENSATOR	\$157.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC08-32-O-N-80	EC08-32-O-N-80 COMPENSATOR	\$157.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC10-30-O-N-40	EC10-30-O-N-40 COMPENSATOR	\$157.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC10-30-O-N-80	EC10-30-O-N-80 COMPENSATOR	\$157.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC10-32-O-N-150	EC10-32-O-N-150 COMPENSATOR	\$186.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC10-32-O-N-80	EC10-32-O-N-80 COMPENSATOR	\$186.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC10-32-3B-N-150	EC10-32-3B-N-150 COMPENSATOR	\$388.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC10-40-O-N-160	EC10-40-0-N-160 COMPENSATOR	\$172.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC10-40-O-N-80	EC10-40-0-N-80 COMPENSATOR	\$172.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC10-42-O-N-150	EC10-42-0-N-150 COMPENSATOR	\$186.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC10-42-O-N-80	EC10-42-0-N-80 COMPENSATOR	\$186.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC10-43-O-N-150	EC10-43-0-N-150 COMPENSATOR	\$237.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC10-43-O-N-80	EC10-43-0-N-80 COMPENSATOR	\$237.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-30-O-N-100	EC12-30-0-N-100 COMPENSATOR	\$220.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-30-O-N-160	EC12-30-0-N-160 COMPENSATOR	\$220.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-32-O-N-160	EC12-32-0-N-160 COMPENSATOR	\$286.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-32-O-N-220	EC12-32-0-N-220 COMPENSATOR	\$286.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-32-O-N-80	EC12-32-0-N-80 COMPENSATOR	\$286.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-34-O-N-200	EC12-34-0-N-200 COMPENSATOR	\$370.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-40-O-N-100	EC12-40-0-N-100 COMPENSATOR	\$282.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-40-O-N-160	EC12-40-0-N-160 COMPENSATOR	\$282.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-42-O-N-160	EC12-42-0-N-160 COMPENSATOR	\$299.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-42-O-N-80	EC12-42-0-N-80 COMPENSATOR	\$299.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-43-O-N-160	EC12-43-0-N-160 COMPENSATOR	\$351.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC12-43-O-N-80	EC12-43-0-N-80	\$351.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC16-32-O-N-160	EC16-32-0-N-160 COMPENSATOR	\$324.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC16-32-O-N-80	EC16-32-0-N-80 COMPENSATOR	\$324.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC16-34-O-N-200	EC16-34-0-N-200 COMPENSATOR	\$396.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC16-42-O-N-150	EC16-42-0-N-150 COMPENSATOR	\$345.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC16-42-O-N-80	EC16-42-0-N-80 COMPENSATOR	\$345.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC16-43-O-N-80	EC16-43-0-N-80 COMPENSATOR	\$402.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC42-M42-O-N-150	EC42-M42-0-N-150 COMPENSATOR	\$529.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC42-M42-O-N-80	EC42-M42-0-N-80 COMPENSATOR	\$529.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC50-30-O-P-80	EC50-30-0-P-80 COMPENSATOR	\$240.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC50-42-O-P-150	EC50-42-0-P-150 COMPENSATOR	\$250.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC50-42-O-P-80	EC50-42-0-P-80 COMPENSATOR	\$250.00
FLOW CONTROL	PRESSURE COMPENSATOR		EC50-43-O-P-150	EC50-43-0-P-150 COMPENSATOR	\$286.00
FLOW CONTROL	PRESSURE COMPENSATOR		HEC32-43-O-N-150	HEC32-43-0-N-150 COMPENSATOR	\$1,821.00
FLOW CONTROL	PRESSURE COMPENSATOR		HEC42-M43-O-U-150	HEC42-M43-0-U-150 COMPENSATOR	\$686.00
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32A-O-N-12	PR08-32A-O-N-12/ REDUCING VALVE	\$204.00
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32A-O-N-22	PR08-32A-O-N-22/ REDUCING VALVE	\$204.00
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32A-O-N-3	PR08-32A-O-N-03/ REDUCING VALVE	\$204.00
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32A-O-N-6	PR08-32A-O-N-06/ REDUCING VALVE	\$204.00
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32A-O-V-12	PR08-32A-O-V-12/ REDUCING VALVE	\$212.00
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32A-O-V-22	PR08-32A-O-V-22/ REDUCING VALVE	\$212.00
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32A-O-V-6	PR08-32A-O-V-06/ REDUCING VALVE	\$212.00
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32B-O-N-12	PR08-32B-O-N-12/ REDUCING VALVE	\$232.00
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32C-O-V-6	PR08-32C-O-V-06/ REDUCING VALVE	\$226.00
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32C-6T-V-06	PR08-32C-6T-V-06/ REDUCING VALVE	\$358.00

Category	Product Type	Option	Code	Description	List Price
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32F-0-N-3/M4.0	PR08-32F-0-N-03/M4 REDUCING VLV	\$199.00
PRESSURE CONTROL	PRESSURE REDUCING		PR08-32F-0-N-6/M26	PR08-32F-0-N-06/ M26 REDUCING VALVE	\$199.00
PRESSURE CONTROL	PRESSURE REDUCING		PR10-32A-0-N-15	PR10-32A-0-N-15/ REDUCING VALVE	\$212.00
PRESSURE CONTROL	PRESSURE REDUCING		PR10-32A-0-N-21	PR10-32A-0-N-21/ REDUCING VALVE	\$212.00
PRESSURE CONTROL	PRESSURE REDUCING		PR10-32A-0-N-4	PR10-32A-0-N-04/ REDUCING VALVE	\$212.00
PRESSURE CONTROL	PRESSURE REDUCING		PR10-32A-0-N-8	PR10-32A-0-N-08/ REDUCING VALVE	\$212.00
PRESSURE CONTROL	PRESSURE REDUCING		PR10-32B-0-N-21	PR10-32B-0-N-21/ REDUCING VALVE	\$240.00
PRESSURE CONTROL	PRESSURE REDUCING		PR10-36A-0-N-15	PR10-36A-0-N-15/ REDUCING VALVE	\$258.00
PRESSURE CONTROL	PRESSURE REDUCING		PR10-36A-0-N-30	PR10-36A-0-N-30/ REDUCING VALVE	\$258.00
PRESSURE CONTROL	PRESSURE REDUCING		PR10-36A-0-N-4	PR10-36A-0-N-04/ REDUCING VALVE	\$258.00
PRESSURE CONTROL	PRESSURE REDUCING		PR10-36AS-0-N-15	PR10-36A-0-N-15/0.15 REDUCING VALVE	\$258.00
PRESSURE CONTROL	PRESSURE REDUCING		PR10-36H-0-N-15	PR10-36H-0-N-15/ REDUCING VALVE	\$252.00
PRESSURE CONTROL	PRESSURE REDUCING		PR12-36A-0-N-15	PR12-36A-0-N-15/ REDUCING VALVE	\$351.00
PRESSURE CONTROL	PRESSURE REDUCING		PR12-36A-0-N-30	PR12-36A-0-N-30/ REDUCING VALVE	\$351.00
PRESSURE CONTROL	PRESSURE REDUCING		PR12-36A-0-N-4	PR12-36A-0-N-04/ REDUCING VALVE	\$351.00
PRESSURE CONTROL	PRESSURE REDUCING		PR12-36B-0-N-30	PR12-36B-0-N-30/ REDUCING VALVE	\$378.00
PRESSURE CONTROL	PRESSURE REDUCING		PR12-36H-0-N15/12.0	PR12-36H-0-N-15/12 REDUCING	\$345.00
PRESSURE CONTROL	PRESSURE REDUCING		PR50-36A-0-P-15	PR50-36A-0-P-15 / M29 REDUCING VALVE	\$387.00
PRESSURE CONTROL	PRESSURE REDUCING		PR50-36A-0-P-30	PR50-36A-0-P-30/ REDUCING VALVE	\$387.00
PRESSURE CONTROL	PRESSURE REDUCING		PR50-36A-0-P-50	PR50-36A-0-P-50/ REDUCING VALVE	\$272.00
PRESSURE CONTROL	PRESSURE REDUCING		PR50-36H-0-P-15	PR50-36H-0-P-15/ REDUCING VALVE	\$267.00
PRESSURE CONTROL	PRESSURE REDUCING		PR50-38A-0-P-05	PR50-38A-0-P-05/ REDUCING VALVE	\$358.00
PRESSURE CONTROL	PRESSURE REDUCING		PR50-38A-0-P-21	PR50-38A-0-P-21/ REDUCING VALV	\$358.00
PRESSURE CONTROL	PRESSURE REDUCING		PR50-38A-0-U-15	PR50-38A-0-U-15/ REDUCING VALVE	\$358.00
PRESSURE CONTROL	PRESSURE REDUCING		PR50-38B-0-N-21	PR50-38B-0-N-21/ REDUCING VALVE	\$358.00
PRESSURE CONTROL	PRESSURE REDUCING		PR58-38A-0-P-05	PR58-38A-0-P-05/ REDUCE/RELIEVE	\$309.00
PRESSURE CONTROL	PRESSURE REDUCING		PR58-38A-0-P-20	PR58-38A-0-P-20/ REDUCE/RELIEVE	\$309.00
PRESSURE CONTROL	PRESSURE REDUCING		PR58-38A-0-P-32/26.	PR58-38A-0-P-32/26 REDUCE/RELIEVE	\$309.00
PRESSURE CONTROL	PRESSURE REDUCING		PR58-38A-0-P-42	PR58-38A-0-P-42/ REDUCING VALVE	\$309.00
PRESSURE CONTROL	PRESSURE REDUCING		PR58-38H-0-P-05	PR58-38H-0-P-05/ REDUCE/RELIEVE	\$304.00
PRESSURE CONTROL	PRESSURE REDUCING		PR58-38RAS-0-P-05/M25	PR58-38RAS-0-P-05/M25 REDUCE/RELIEVE	\$356.00
DIRECTIONAL CONTROL	PROPORTIONAL PILOTED		PE12-S67C-0-N	PE12-S67C-0-N PROPORTIONAL ELEMENT	\$378.00
DIRECTIONAL CONTROL	PROPORTIONAL PILOTED		PE12-S67D-0-N	PE12-S67D-0-N PROPORTIONAL ELEMENT	\$378.00
DIRECTIONAL CONTROL	PROPORTIONAL PILOTED		PE12-S67H-0-N	PE12-S67H-0-N PROPORTIONAL ELEMENT	\$378.00
DIRECTIONAL CONTROL	PROPORTIONAL PILOTED		PE16-S67C-0-N	PE16-S67C-0-N PROPORTIONAL ELEMENT	\$456.00
DIRECTIONAL CONTROL	PROPORTIONAL PILOTED		PE16-S67D-0-N	PE16-S67D-0-N PROPORTIONAL ELEMENT	\$456.00
DIRECTIONAL CONTROL	PROPORTIONAL PILOTED		PE16-S67H-0-N	PE16-S67H-0-N PROPORTIONAL ELEMENT	\$456.00
DIRECTIONAL CONTROL	PROPORTIONAL PILOTED		PE16-S67K-0-N	PE16-S67K-0-N PROPORTIONAL ELEMENT	\$456.00
DIRECTIONAL CONTROL	PROPORTIONAL PILOTED		PE42-S67C-0-N	PE42-S67C-0-N PROPORTIONAL ELEMENT	\$818.00
DIRECTIONAL CONTROL	PROPORTIONAL PILOTED		PE42-S67D-0-N	PE42-S67D-0-N PROPORTIONAL ELEMENT	\$832.00
DIRECTIONAL CONTROL	PROPORTIONAL PILOTED		PE42-S67H-0-N	PE42-S67H-0-N PROPORTIONAL ELEMENT	\$818.00
DIRECTIONAL CONTROL	PROPORTIONAL PILOTED		PE42-S67K-0-N	PE42-S67K-0-N PROPORTIONAL ELEMENT	\$814.00
PROPORTIONAL VALVES	PROPORTIONAL REDUCING	DIN CONNECTOR	EHPRO8-33-0-N-0	EHPRO8-33-0-N-0 CARTRIDGE	\$424.00
PROPORTIONAL VALVES	PROPORTIONAL REDUCING		EHPRO8-33-0-N-12DG	EHPRO8-33-0-N-12DG CARTRIDGE	\$540.00
PROPORTIONAL VALVES	PROPORTIONAL REDUCING		EHPRO8-33M-0-N-0	EHPRO8-33M-0-N-0 CARTRIDGE	\$515.00
PROPORTIONAL VALVES	PROPORTIONAL REDUCING	DEUTSCH CON.	EHPRO8-33M-0-N-12ER	EHPRO8-33M-0-N-12ER CARTRIDGE	\$608.00
PROPORTIONAL VALVES	PROPORTIONAL REDUCING	DEUTSCH CON.	EHPRO8-33M-0-N-24ER	EHPRO8-33M-0-N-24ER CARTRIDGE	\$608.00
PROPORTIONAL VALVES	PROPORTIONAL REDUCING	DEUTSCH CON.	EHPR98-T33-0-N-12ER	EHPR98-T33-0-N-12ER CONTROL VALVE	\$250.00
PROPORTIONAL VALVES	PROPORTIONAL REDUCING	DEUTSCH CON.	EHPR98-T33-0-N-24ER	EHPR98-T33-0-N-24ER CARTRIDGE	\$250.00
PROPORTIONAL VALVES	PROPORTIONAL REDUCING	DEUTSCH CON.	EHPR98-T38B-6TN24ER	EHPR98-T38B-6TN24ER CARTRIDGE	\$616.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS08-20A-0-N-0	TS08-20A-0-N-00 PRESSURE CONTROL	\$370.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS08-20B-0-N-0	TS08-20B-0-N-00 PRESSURE CONTROL	\$370.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS08-27A-0-N-0	TS08-27A-0-N-00 PRESSURE CONTROL	\$435.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS08-27B-0-N-0	TS08-27B-0-N-00 PRESSURE CONTROLS	\$435.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS08-27B-0-V-0	TS08-27B-0-V-00 PRESSURE CONTROLS	\$442.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS10-26A-0-N-0	TS10-26A-0-N-00 PRESSURE CONTROL	\$482.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS10-26A-0-N-24	TS10-26A-0-N-24DG PRESSURE CONTROL	\$594.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS10-26B-0-N-0	TS10-26B-0-N-00 PRESSURE CONTROL	\$482.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS10-26C-0-N-0	TS10-26C-0-N-00 PRESSURE CONTROL	\$482.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS10-27A-0-N-0	TS10-27A-0-N-00 PRESSURE CONTROL	\$493.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS10-27B-0-N-0	TS10-27B-0-N-00 PRESSURE CONTROL	\$493.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS10-27B-0-V-0	TS10-27B-0-V-00 PRESSURE CONTROL	\$508.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS10-27C-0-N-0	TS10-27C-0-N-00 SOLENOID VALVE	\$493.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS10-36A-0-N-0	TS10-36A-0-N-00 PRESSURE CONTROL	\$557.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS10-36AM-0-N-0	TS10-36AM-0-N-00 PRESSURE CONTROL	\$646.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS10-36B-0-N-0	TS10-36B-0-N-00 PRESSURE CONTROL	\$557.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS10-36BM-0-N-0	TS10-36BM-0-N-00 PRESSURE CONTROL	\$646.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS10-36C-0-N-0	TS10-36C-0-N-00 PRESSURE CONTROL	\$557.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS10-36CM-0-N-0	TS10-36CM-0-N-00 PRESSURE CONTROL	\$646.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS12-26A-0-N-0	TS12-26A-0-N-00 PRESSURE CONTROL	\$555.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS12-26B-0-N-0	TS12-26B-0-N-00 PRESSURE CONTROL	\$555.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS12-26C-0-N-0	TS12-26C-0-N-00 PRESSURE CONTROLS	\$555.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS12-26CM-0-N-0	TS12-26CM-0-N-00 PRESSURE CONTROLS	\$634.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS12-27A-0-N-0	TS12-27A-0-N-00 PRESSURE CONTROLS	\$608.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS12-27A-0-V-0	TS12-27A-0-V-00 PRESSURE CONTROL	\$626.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS12-27B-0-N-0	TS12-27B-0-N-00 PRESSURE CONTROL	\$608.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS12-27C-0-N-0	TS12-27C-0-N-00 PRESSURE CONTROL	\$608.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS12-36A-0-N-0	TS12-36A-0-N-00 PRESSURE CONTROL	\$626.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS12-36B-0-N-0	TS12-36B-0-N-00 PRESSURE CONTROL	\$626.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS12-36BM-0-N-0	TS12-36BM-0-N-00 PRESSURE CONTROL	\$718.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS12-36C-0-N-0	TS12-36C-0-N-00 PRESSURE CONTROL	\$626.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS12-36CM-0-N-0	TS12-36CM-0-N-00 PRESSURE CONTROL	\$718.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS38-20A-0-N-0	TS38-20A-0-N-00 PRESSURE CONTROL	\$405.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS38-20AM-0-N-0	TS38-20AM-0-N-00 CARTRIDGE ASSEMBLY	\$493.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS38-20B-0-N-0	TS38-20B-0-N-00 PRESSURE CONTROL	\$405.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS38-20C-0-N-0	TS38-20C-0-N-00 PRESSURE CONTROL	\$405.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF	MANUAL OVERRIDE	TS38-20CM-0-N-0	TS38-20CM-0-N-00 CARTRIDGE ASSEMBLY	\$493.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS38-21A-0-N-0	TS38-21A-0-N-00 PRESSURE CONTROL	\$451.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS38-21B-0-N-0	TS38-21B-0-N-00 PRESSURE CONTROL	\$451.00

Category	Product Type	Option	Code	Description	List Price
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS38-21C-0-N-0	TS38-21C-0-N-00 PRESSURE CONTROL	\$451.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS58-2040-0-N-0	TS58-20-40-0-N-00 PRESSURE CONTROL	\$570.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS58-2050-0-N-0	TS58-20-50-0-N-00 PRESSURE CONTROL	\$570.00
PROPORTIONAL VALVES	PROPORTIONAL RELIEF		TS98-T34-0-N-12	TS98-T34-0-N-12DI PRESSURE CONTROL	\$336.00
PRESSURE CONTROL	RELIEF VALVE		HRVD08-20A-0-N-14	HRVD08-20A-0-N-14/	\$265.00
PRESSURE CONTROL	RELIEF VALVE		HRVD08-20A-0-U-61	HRVD08-20A-0-U-61/M420	\$258.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20A-0-N-18	RV08-20A-0-N-18/ RELIEF VALVE	\$152.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20A-0-N-33	RV08-20A-0-N-33/ RELIEF VALVE	\$152.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20A-0-NC-33	RV08-20A-0-NC-33/ RELIEF VALVE	\$152.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20A-0-NC-9	RV08-20A-0-NC-09/ RELIEF VALVE	\$152.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20A-0-P-18	RV08-20A-0-P-18/ RELIEF VALVE	\$172.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20A-0-P-9	RV08-20A-0-P-09/ RELIEF VALVE	\$172.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20B-0-N-18	RV08-20B-0-N-18/ RELIEF VALVE	\$180.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20B-0-N-33	RV08-20B-0-N-33/ RELIEF VALVE	\$180.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20B-0-N-9	RV08-20B-0-N-09/ RELIEF VALVE	\$180.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20C-0-N-18	RV08-20C-0-N-18/ RELIEF VALVE	\$167.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20C-0-N-33	RV08-20C-0-N-33/ RELIEF VALVE	\$167.00
PRESSURE CONTROL	RELIEF VALVE		RV08-20C-0-N-9	RV08-20C-0-N-09/ RELIEF VALVE	\$167.00
PRESSURE CONTROL	RELIEF VALVE		RV08-22A-0-N-13	RV08-22A-0-N-13/ RELIEF VALVE	\$152.00
PRESSURE CONTROL	RELIEF VALVE		RV08-22A-0-N-26	RV08-22A-0-N-26/ RELIEF VALVE	\$152.00
PRESSURE CONTROL	RELIEF VALVE		RV08-22B-0-N-13	RV08-22B-0-N-13/ RELIEF VALVE	\$180.00
PRESSURE CONTROL	RELIEF VALVE		RV08-22H-0-N26/M131	RV08-22H-0-N-26/M131 RELIEF VALVE	\$148.00
PRESSURE CONTROL	RELIEF VALVE		RV08-22H-0-N-26/M207	RV08-22H-0-N-26/ M207 RELIEF VALVE	\$148.00
PRESSURE CONTROL	RELIEF VALVE		RV08-29A-0-N-35	RV08-29A-0-N-35/ RELIEF VALVE	\$157.00
PRESSURE CONTROL	RELIEF VALVE		RV10-20A-0-N-12	RV10-20A-0-N-12/ RELIEF VALVE	\$172.00
PRESSURE CONTROL	RELIEF VALVE		RV10-20A-0-N-12/M20	RV10-20A-0-N-12/M20 RELIEF VALVE	\$172.00
PRESSURE CONTROL	RELIEF VALVE		RV10-20A-0-N-23	RV10-20A-0-N-23/ RELIEF VALVE	\$172.00
PRESSURE CONTROL	RELIEF VALVE		RV10-20A-0-N-6	RV10-20A-0-N-06/ RELIEF VALVE	\$172.00
PRESSURE CONTROL	RELIEF VALVE		RV10-20A-0-NC-12	RV10-20A-0-NC-12/ RELIEF VALVE	\$172.00
PRESSURE CONTROL	RELIEF VALVE		RV10-20A-0-N-C-33	RV10-20A-0-N-C-33/ RELIEF VALVE	\$172.00
PRESSURE CONTROL	RELIEF VALVE		RV10-20A-0-N-33	RV10-20A-0-N-33/ RELIEF VALVE	\$172.00
PRESSURE CONTROL	RELIEF VALVE		RV10-22A-0-N-13	RV10-22A-0-N-13/ RELIEF VALVE	\$174.00
PRESSURE CONTROL	RELIEF VALVE		RV10-22A-0-N-25	RV10-22A-0-N-25/ RELIEF VALVE	\$174.00
PRESSURE CONTROL	RELIEF VALVE		RV10-22H-0-NC25/M55	RELIEF 114L/MIN DIFF AREA 17-165B - SETT 55 BAR	\$174.00
PRESSURE CONTROL	RELIEF VALVE		RV10-22A-0-NC-35	RV10-22A-0-NC-35/ RELIEF VALVE	\$174.00
PRESSURE CONTROL	RELIEF VALVE		RV10-22A-0-V-35	RV10-22A-0-V-35/ RELIEF VALVE	\$186.00
PRESSURE CONTROL	RELIEF VALVE		RV10-22B-0-N-35	RV10-22B-0-N-35/ RELIEF VALVE	\$204.00
PRESSURE CONTROL	RELIEF VALVE		RV10-22H-0-N-25/12	RV10-22H-0-N-25/12 RELIEF VALVE	\$167.00
PRESSURE CONTROL	RELIEF VALVE		RV10-22H-0-N-35/30	RV10-22H-0-N-35/30 RELIEF VALVE	\$167.00
PRESSURE CONTROL	RELIEF VALVE		RV10-26A-0-N-15	RV10-26A-0-N-15/ RELIEF VALVE	\$206.00
PRESSURE CONTROL	RELIEF VALVE		RV10-26A-0-N-30	RV10-26A-0-N-30/ RELIEF VALVE	\$206.00
PRESSURE CONTROL	RELIEF VALVE		RV10-26A-0-N-4	RV10-26A-0-N-04/ RELIEF VALVE	\$206.00
PRESSURE CONTROL	RELIEF VALVE		RV10-26B-0-N-15	RV10-26B-0-N-15/ RELIEF VALVE	\$237.00
PRESSURE CONTROL	RELIEF VALVE		RV10-26B-0-N-30	RV10-26B-0-N-30/ RELIEF VALVE	\$237.00
PRESSURE CONTROL	RELIEF VALVE		RV10-26F-0N-30/2500	RV10-26F-0-N-30/25 RELIEF VALVE	\$204.00
PRESSURE CONTROL	RELIEF VALVE		RV10-26H-0-N-30/30	RV10-26H-0-N-30/30 RELIEF VALVE	\$204.00
PRESSURE CONTROL	RELIEF VALVE		RV10-26L-0-N-30/2500	RV10-26L-0-N-30/25 RELIEF VALVE	\$240.00
PRESSURE CONTROL	RELIEF VALVE		RV10-28A-0-N-07	RV10-28A-0-N-07/ RELIEF VALVE	\$267.00
PRESSURE CONTROL	RELIEF VALVE		RV10-28A-0-N-35	RV10-28A-0-N-35/ RELIEF VALVE	\$267.00
PRESSURE CONTROL	RELIEF VALVE		RV12-26A-0-N-15	RV12-26A-0-N-15/ RELIEF VALVE	\$299.00
PRESSURE CONTROL	RELIEF VALVE		RV12-26A-0-N-35	RV12-26A-0-N-35/ RELIEF VALVE	\$299.00
PRESSURE CONTROL	RELIEF VALVE		RV12-26A-0-N-4	RV12-26A-0-N-04/ RELIEF VALVE	\$299.00
PRESSURE CONTROL	RELIEF VALVE		RV12-26C-0-N-35	RV12-26C-0-N-35/ RELIEF VALVE	\$311.00
PRESSURE CONTROL	RELIEF VALVE		RV16-26A-0-N-03	RV16-26A-0-N-03/ RELIEF VALVE	\$525.00
PRESSURE CONTROL	RELIEF VALVE		RV16-26A-0-N-06	RV16-26A-0-N-06/ RELIEF VALVE	\$525.00
PRESSURE CONTROL	RELIEF VALVE		RV16-26A-0-N-15	RV16-26A-0-N-15/ RELIEF VALVE	\$525.00
PRESSURE CONTROL	RELIEF VALVE		RV16-26A-0-N-35	RV16-26A-0-N-35/ RELIEF VALVE	\$525.00
PRESSURE CONTROL	RELIEF VALVE		RV16-26A-0-P-35	RV16-26A-0-P-35/ RELIEF VALVE	\$566.00
PRESSURE CONTROL	RELIEF VALVE		RV16-26H-0-N-35/25	RV16-26H-0-N-35/25 RELIEF VALVE	\$520.00
PRESSURE CONTROL	RELIEF VALVE		RV50-22A-0-P-50	RV50-22A-0-P-50/ RELIEF VALVE	\$204.00
PRESSURE CONTROL	RELIEF VALVE		RV50-22H-0-P-50/37.5	RV50-22H-0-P-50/37.5 RELIEF VALVE	\$199.00
PRESSURE CONTROL	RELIEF VALVE		RV50-26A-0-P-50	RV50-26A-0-P-50/ RELIEF VALVE	\$232.00
PRESSURE CONTROL	RELIEF VALVE		RV50-26B-0-P-50	RV50-26B-0-P-50/ RELIEF VALVE	\$258.00
PRESSURE CONTROL	RELIEF VALVE		RV50-26C-0-P-50/35	RV50-26C-0-P-50/35 RELIEF VALVE	\$240.00
PRESSURE CONTROL	RELIEF VALVE		RV50-28A-0-P-50	RV50-28A-0-P-50/ RELIEF VALVE	\$311.00
PRESSURE CONTROL	RELIEF VALVE		RV52-26A-0-P-50	RV52-26A-0-P-50/ RELIEF VALVE	\$324.00
PRESSURE CONTROL	RELIEF VALVE		RV52-26C-0-P-50	RV52-26C-0-P-50/ RELIEF VALVE	\$332.00
PRESSURE CONTROL	RELIEF VALVE		RV56-26A-0-P-50	RV56-26A-0-P-50/ RELIEF VALVE	\$520.00
PRESSURE CONTROL	RELIEF VALVE		RV58-20A-0-P-46	RV58-20A-0-P-46/ RELIEF VALVE	\$167.00
PRESSURE CONTROL	RELIEF VALVE		RV58-20B-0-P-46	RV58-20B-0-P-46/ RELIEF VALVE	\$193.00
PRESSURE CONTROL	RELIEF VALVE		RV58-20H-0-P-46/08	RV58-20H-0-P-46/08 RELIEF VALVE	\$167.00
PRESSURE CONTROL	RELIEF VALVE		RV58-20H-0-P-46/M260	RV58-20H-0-P-46/ M260 RELIEF VALVE	\$167.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20A-0-N-08	RVD50-20A-0-N-08/ RELIEF	\$299.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20A-0-N-15	RVD50-20A-0-N-15/ RELIEF	\$299.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20A-0-N-24	RVD50-20A-0-N-24/ RELIEF	\$299.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20A-0-N-32	RVD50-20A-0-N-32/ RELIEF VALVE	\$299.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20A-0-N-42	RVD50-20A-0-N-42/ RELIEF	\$299.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20A-0-N-50	RVD50-20A-0-N-50/ RELIEF	\$299.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20A-0-NC-32	RVD50-20A-0-NC-32/ RELIEF	\$299.00

Category	Product Type	Option	Code	Description	List Price
PRESSURE CONTROL	RELIEF VALVE		RVD50-20A-0-U-50	RVD50-20A-0-U-50/ RELIEF	\$324.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20C-0-N-08	RVD50-20C-0-N-08/M36 RELIEF	\$311.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20C-0-N-15	RVD50-20C-0-N-15/ RELIEF VALVE	\$311.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20C-0-N-32	RVD50-20C-0-N-32/ RELIEF	\$311.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20H0N-15/M100	RVD50-20H-0-N-15/M100 RELIEF	\$296.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20L-0-N-32	RVD50-20L-0-N-32/ RELIEF	\$332.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20L-0-N-42	RVD50-20L-0-N-42/ RELIEF	\$332.00
PRESSURE CONTROL	RELIEF VALVE		RVD50-20P-0-N42M240	RVD50-20P-0-N42/M240 RELIEF VALVE	\$424.00
ACCESSORIES	SCREEN		TR04-B20-0-N-40	TR04-B20-0-N-40/ THERMAL RELIEF	\$172.00
ACCESSORIES	SCREEN		SC08-20-0-N-100	SC08-20-0-N-100 SCREEN CARTRIDGE	\$52.00
SEAL KITS	SEAL KIT		SK04-B3N-M	SK04-B3N-M SEAL KIT	\$14.00
SEAL KITS	SEAL KIT		SK07-3N-MM	SK07-3N-MM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK08-2N-M	SK08-2N-M SEAL KIT	\$14.00
SEAL KITS	SEAL KIT		SK08-2N-T	SK08-2N-T/B SEAL KIT	\$14.00
SEAL KITS	SEAL KIT		SK08-2P-B	SK08-2P-T/B SEAL KIT	\$22.00
SEAL KITS	SEAL KIT		SK08-2V-M	SK08-2V-M SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK08-3N-BM	SK08-3N-BM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK08-3N-MM	SK08-3N-MM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK08-3N-TM	SK08-3N-TM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK08-3P-MM	SK08-3P-MM SEAL KIT	\$29.00
SEAL KITS	SEAL KIT		SK08-3V-MM	SK08-3V-MM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK08-3V-TM	SK08-3V-TM/BM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK08-4N-MMM	SK08-4N-MMM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK08-4V-MMM	SK08-4V-MMM SEAL KIT	\$29.00
SEAL KITS	SEAL KIT		SK10-2N-M	SK10-2N-M SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK10-2N-T	SK10-2N-T/B SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK10-2P-B	SK10-2P-T/B SEAL KIT	\$29.00
SEAL KITS	SEAL KIT		SK10-2V-M	SK10-2V-M SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK10-2V-T	SK10-2V-T/B SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK10-3N-BM	SK10-3N-BM/TM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK10-3N-MM	SK10-3N-MM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK10-3N-TB	SK10-3N-TT/BB SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK10-3N-TM	SK10-3N-BM/TM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK10-3P-BM	SK10-3P-BM/TM SEAL KIT	\$38.00
SEAL KITS	SEAL KIT		SK10-3V-MM	SK10-3V-MM SEAL KIT	\$22.00
SEAL KITS	SEAL KIT		SK10-4N-BMM	SK10-4N-BMM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK10-4N-MMM	SK10-4N-MMM SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK10-4V-MMM	SK10-4V-MMM SEAL KIT	\$22.00
SEAL KITS	SEAL KIT		SK10-S3N-MM	SK10-S3N-MM SEAL KIT 70 DURO	\$20.00
SEAL KITS	SEAL KIT		SK10-S3V-MM	SK10-S3V-MM SEAL KIT	\$22.00
SEAL KITS	SEAL KIT		SK12-2N-M	SK12-2N-M SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK12-2N-T	SK12-2N-T/B SEAL KIT	\$20.00
SEAL KITS	SEAL KIT		SK12-2P-B	SK12-2P-T/B SEAL KIT	\$38.00
SEAL KITS	SEAL KIT		SK12-2V-M	SK12-2V-M SEAL KIT	\$29.00
SEAL KITS	SEAL KIT		SK12-3N-BM	SK12-3N-BM SEAL KIT	\$29.00
SEAL KITS	SEAL KIT		SK12-3N-MM	SK12-3N-MM SEAL KIT	\$29.00
SEAL KITS	SEAL KIT		SK12-3SV-MM	SEAL KIT VITON - VC12-3S	\$38.00
SEAL KITS	SEAL KIT		SK12-3V-MM	SK12-3V-MM SEAL KIT	\$38.00
SEAL KITS	SEAL KIT		SK12-4N-MMM	SK12-4N-MMM SEAL KIT	\$38.00
SEAL KITS	SEAL KIT		SK12-4V-MMM	SK12-4V-MMM SEAL KIT	\$48.00
SEAL KITS	SEAL KIT		SK12-S3N-MM	SK12-S3N-MM SEAL KIT	\$29.00
SEAL KITS	SEAL KIT		SK12-2N-T	SK12-2N-T/B SEAL KIT	\$22.00
SEAL KITS	SEAL KIT		SK16-2P-B	SK16-2P-T/B SEAL KIT	\$48.00
SEAL KITS	SEAL KIT		SK16-2U-O	SK16-2U-O SEAL KIT	\$48.00
SEAL KITS	SEAL KIT		SK16-2V-M	SK16-2V-M SEAL KIT	\$38.00
SEAL KITS	SEAL KIT		SK16-4N-MMM	SK16-4N-MMM SEAL KIT	\$41.00
SEAL KITS	SEAL KIT		SK16-4V-MMM	SK16-4V-MMM SEAL KIT	\$56.00
SEAL KITS	SEAL KIT		SK16-S3N-MM	SK16-S3N-MM SEAL KIT	\$38.00
SEAL KITS	SEAL KIT		SK16-S3V-MM	SK16-S3V-MM SEAL KIT	\$48.00
SEAL KITS	SEAL KIT		SK16-S6P-BMIMMM	SK16-S6P-BMIMMM SEAL KIT	\$101.00
SEAL KITS	SEAL KIT		SK20-2P-T	SK20-2P-T SEAL KIT	\$56.00
SEAL KITS	SEAL KIT		SK20-S3N-MM	SK20-S3N-MM SEAL KIT	\$41.00
SEAL KITS	SEAL KIT		SK42-M2N-T	SK42-M2N-T SEAL KIT	\$38.00
SEAL KITS	SEAL KIT		SK42-S3U-00	SK42-S3U-00 SEAL KIT	\$101.00
SEAL KITS	SEAL KIT		SK98-T39N	SK98-T39N SEAL KIT	\$20.00
PRESSURE CONTROL	SEQUENCE VALVES		PS08-30A-0-N-13	PS08-30A-0-N-13/ SEQUENCE VALVE	\$199.00
PRESSURE CONTROL	SEQUENCE VALVES		PS08-30A-0-N-24	PS08-30A-0-N-24/ SEQUENCE VALVE	\$199.00
PRESSURE CONTROL	SEQUENCE VALVES		PS08-30A-0-V-24	PS08-30A-0-V-24/ SEQUENCE VALVE	\$212.00
PRESSURE CONTROL	SEQUENCE VALVES		PS08-30C-0-N-24	PS08-30C-0-N-24/ SEQUENCE VALVE	\$212.00
PRESSURE CONTROL	SEQUENCE VALVES		PS08-30H-0-P-24/16	PS08-30H-0-P-24/16 SEQUENCE VALVE	\$218.00
PRESSURE CONTROL	SEQUENCE VALVES		PS08-32A-0-N-13	PS08-32A-0-N-13/ SEQUENCE VALVE	\$199.00
PRESSURE CONTROL	SEQUENCE VALVES		PS08-32A-0-N-24	PS08-32A-0-N-24/ SEQUENCE VALVE	\$199.00
PRESSURE CONTROL	SEQUENCE VALVES		PS08-32A-0-N-3	PS08-32A-0-N-03/ SEQUENCE VALVE	\$199.00
PRESSURE CONTROL	SEQUENCE VALVES		PS08-32A-0-N-6	PS08-32A-0-N-06/ SEQUENCE VALVE	\$199.00
PRESSURE CONTROL	SEQUENCE VALVES		PS08-32C-0-N-13	PS08-32C-0-N-13/ SEQUENCE VALVE	\$212.00
PRESSURE CONTROL	SEQUENCE VALVES		PS08-32C-0-N-24	PS08-32C-0-N-24/ SEQUENCE VALVE	\$212.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-30A-0-N-21	PS10-30A-0-N-21/ SEQUENCE VALVE	\$212.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-30A-0-N-4	PS10-30A-0-N-04/ SEQUENCE VALVE	\$212.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-31A-0-N-35	PS10-31A-0-N-35/ SEQUENCE VALVE	\$226.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-32A-0-N-15	PS10-32A-0-N-15/ SEQUENCE VALVE	\$218.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-32A-0-N-21	PS10-32A-0-N-21/ SEQUENCE VALVE	\$218.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-32A-0-N-4	PS10-32A-0-N-04/ SEQUENCE VALVE	\$218.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-32A-0-N-8	PS10-32A-0-N-08/ SEQUENCE VALVE	\$218.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-32B-0-N-21	PS10-32B-0-N-21/ SEQUENCE VALVE	\$244.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-33A-0-N-35	PS10-33A-0-N-35/ SEQUENCE VALVE	\$226.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-34A-0-N-17	PS10-34A-0-N-17/ SEQUENCE VALVE	\$212.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-34A-0-N-7	PS10-34A-0-N-07/ SEQUENCE VALVE	\$212.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-36A-0-N-04	PS10-36A-0-N-04/ SEQUENCE VALVE	\$265.00

Category	Product Type	Option	Code	Description	List Price
PRESSURE CONTROL	SEQUENCE VALVES		PS10-36A-0-N-15	PS10-36A-0-N-15/ SEQUENCE VALVE	\$265.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-36A-0-N-30	PS10-36A-0-N-30/ SEQUENCE VALVE	\$265.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-40A-0-N-22	PS10-40A-0-N-22/ SEQUENCE VALVE	\$272.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-40A-0-N-4	PS10-40A-0-N-04/ SEQUENCE VALVE	\$272.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-41A-0-N-22	PS10-41A-0-N-22/ SEQUENCE VALVE	\$272.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-41A-0-N-4	PS10-41A-0-N-04/ SEQUENCE VALVE	\$272.00
PRESSURE CONTROL	SEQUENCE VALVES		PS10-43A-0-N-22	PS10-43A-0-N-22/ SEQUENCE VALVE	\$282.00
PRESSURE CONTROL	SEQUENCE VALVES		PS50-36A-0-P-50	PS50-36A-0-P-50/ SEQUENCE VALVE	\$387.00
PRESSURE CONTROL	SEQUENCE VALVES		PS50-40A-0-P-35	PS50-40A-0-P-35/ SEQUENCE VALVE	\$282.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		HLS06-30-0-U	HLS06-30-0-U SHUTTLE VALVE	\$107.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		HLS06-B30-0-U	HLS06-B30-0-U SHUTTLE VALVE	\$101.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		HS10-42-0-N	HS10-42-0-N HOT OIL SHUTTLE VALVE	\$250.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		HS50-42-0-P	HS50-42-0-P HOT OIL SHUTTLE VALVE	\$272.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		HS50-43-0-P	HS50-43-0-P HOT OIL SHUTTLE VALVE	\$311.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		HS52-42-0-P	HS52-42-0-P HOT OIL SHUTTLE VALVE	\$460.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		HS52-43-0-P	HS52-43-0-P HOT OIL SHUTTLE VALVE	\$482.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		LS04-B30-0-N	LS04-B30-0-N SHUTTLE VALVE	\$81.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		LS08-30-0-N	LS08-30-0-N SHUTTLE VALVE CARTRIDGE	\$88.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		LS08-30-0-V	LS08-30-0-V SHUTTLE VALVE	\$101.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		LS10-30-0-N	LS10-30-0-N SHUTTLE VALVE	\$101.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		LS10-41-0-N	LS10-41-0-N SHUTTLE VALVE	\$167.00
DIRECTIONAL CONTROL	SHUTTLE VALVE		LS50-30-0-P	LS50-30-0-P SHUTTLE VALVE	\$130.00
SOLENOID VALVE	SOLENOID VALVE		HSV10-20-0-N-0	HSV10-20-0-N-00 SOLENOID VALVE	\$252.00
SOLENOID VALVE	SOLENOID VALVE		HSV10-21-0-U-0	HSV10-21-0-U-00 SOLENOID VALVE	\$326.00
SOLENOID VALVE	SOLENOID VALVE		HSV10-22-0-U-0	HSV10-22-0-U-00 SOLENOID VALVE	\$258.00
SOLENOID VALVE	SOLENOID VALVE		HSV10-23-0-U-0	HSV10-23-0-U-00 SOLENOID VALVE	\$324.00
SOLENOID VALVE	SOLENOID VALVE		HSV10-28-0-N-0	HSV10-28-0-N-00 SOLENOID VALVE	\$496.00
SOLENOID VALVE	SOLENOID VALVE		HSV10-28-0-U-0	HSV10-28-0-U-00 SOLENOID VALVE	\$488.00
SOLENOID VALVE	SOLENOID VALVE		HSV10-29-0-U-0	HSV10-29-0-U-00 SOLENOID VALVE	\$529.00
SOLENOID VALVE	SOLENOID VALVE		HSV10-40R-0-U-00	HSV10-40R-0-U-00 CARTRIDGE	\$299.00
SOLENOID VALVE	SOLENOID VALVE		HSV10-47C-0-U-0	HSV10-47C-0-U-00 SOLENOID VALVE	\$608.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	HSV10-47CB-0-U-0	HSV10-47CB-0-U-00 SOLENOID VALVE	\$765.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	HSV10-47CM-0-N-0	HSV10-47CM-0-N-00 SOLENOID VALVE	\$759.00
SOLENOID VALVE	SOLENOID VALVE		HSV10-47D-0-U-0	HSV10-47D-0-U-00 SOLENOID VALVE	\$608.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	HSV10-47DB-0-U-0	HSV10-47DB-0-U-00 SOLENOID VALVE	\$765.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	HSV10-47DM-0-N-0	HSV10-47DM-0-U-00 SOLENOID VALVE	\$746.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	HSV12-20M-0-U-0	HSV12-20M-0-U-00 SOLENOID VALVE	\$515.00
SOLENOID VALVE	SOLENOID VALVE		HSV12-21-0-U-00	HSV12-21-0-U-00 SOLENOID VALVE	\$451.00
SOLENOID VALVE	SOLENOID VALVE		HSV12-47C-0-U-0	HSV12-47C-0-U-00 SOLENOID VALVE	\$884.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	HSV12-47CB-0-U-0	HSV12-47CB-0-U-00 SOLENOID VALVE	\$1,040.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	HSV12-47DB-0-U-0	HSV12-47DB-0-U-00 SOLENOID VALVE	\$1,040.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	HSV12-P28M-0-U-0-N3	HSV12-P28AM-0-U-0-N3 PILOTREL	\$1,920.00
SOLENOID VALVE	SOLENOID VALVE		SF08-20-0-P-0	SF08-20-0-P-00 SOLENOID VALVE	\$167.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SF08-20M-0-P-0	SF08-20M-0-P-00 W/NUT	\$240.00
SOLENOID VALVE	SOLENOID VALVE		SF08-21-0-P-0	SF08-21-0-P-00 CARTRIDGE ASSEMBLY	\$250.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SF08-21K-0-P-0	SF08-21K-0-P-00 SOLENOID VALVE	\$309.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SF08-21P-0-P-0	SF08-21P-0-P-00 SOLENOID VALVE	\$296.00
SOLENOID VALVE	SOLENOID VALVE		SF08-22-0-P-0	SF08-22-0-P-00 SOLENOID VALVE	\$204.00
SOLENOID VALVE	SOLENOID VALVE		SF08-23-0-P-0	SF08-23-0-P-00 CARTRIDGE ASS'Y/NUT	\$258.00
SOLENOID VALVE	SOLENOID VALVE		SF20-22-0-N-0	SF20-22-0-N-00 SOLENOID VALVE	\$557.00
SOLENOID VALVE	SOLENOID VALVE		SF20-22-0-P-0	SF20-22-0-P-00 SOLENOID VALVE	\$557.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SF20-22M-0-P-0	SF20-22M-0-P-00 SOLENOID VALVE	\$646.00
SOLENOID VALVE	SOLENOID VALVE		SF20-23-0-N-0	SF20-23-0-N-00 SOLENOID VALVE	\$626.00
SOLENOID VALVE	SOLENOID VALVE		SL08-22-0-N-0	SL08-22-0-N-00 W/ 7004406 NUT	\$134.00
SOLENOID VALVE	SOLENOID VALVE		SV07-31-0-N-0	SV07-31-0-N-00 SOLENOID VALVE	\$204.00
SOLENOID VALVE	SOLENOID VALVE		SV07-31-0-V-0	SV07-31-0-V-00 W/ 7004406 NUT	\$212.00
SOLENOID VALVE	SOLENOID VALVE		SV07-34-0-N-0	SV07-34-0-N-00 SOLENOID VALVE	\$204.00
SOLENOID VALVE	SOLENOID VALVE		SV07-35-0-N-0	SV07-35-0-N-00 W/ 7004406 NUT	\$204.00
SOLENOID VALVE	SOLENOID VALVE		SV08-20-0-N-0	SV08-20-0-N-00 W/ 7004406 NUT	\$130.00
SOLENOID VALVE	SOLENOID VALVE	CABLE OVERRIDE	SV08-20J-0-N-0	SV08-20J-0-N-00 SOLENOID VALVE	\$265.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-20M-0-N-0	SV08-20M-0-N-00 W/ 7004496 NUT	\$206.00
SOLENOID VALVE	SOLENOID VALVE		SV08-21-0-N-0	SV08-21-0-N-00 W/ 7004416 NUT	\$180.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV08-21K-0-N-0	SV08-21K-0-N-00 W/ 7004416 NUT	\$240.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV08-21P-0-N-0	SV08-21P-0-N-00 W/ 7004416 NUT	\$226.00
SOLENOID VALVE	SOLENOID VALVE		SV08-22-0-N-0	SV08-22-0-N-00 W/ 7004406 NUT	\$148.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-22M-0-N-0	SV08-22M-0-N-00 W/ 7004496 NUT	\$226.00
SOLENOID VALVE	SOLENOID VALVE		SV08-23-0-N-0	SV08-23-0-N-00 W/ 7004416 NUT SOLENOID VALVE	\$204.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV08-23K-0-N-0	SV08-23K-0-N-00 W/ 7004416 NUT	\$265.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV08-23P-0-N-0	SV08-23P-0-N-00 W/ 7004416 NUT	\$250.00
SOLENOID VALVE	SOLENOID VALVE		SV08-24-0-N-0	SV08-24-0-N-00 W/ 7004406 NUT	\$120.00
SOLENOID VALVE	SOLENOID VALVE		SV08-24-0-V-0	SV08-24-0-V-00 W/ 7004406 NUT	\$130.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-24M-0-N-0	SV08-24M-0-N-00 W/ 7004496 NUT	\$199.00
SOLENOID VALVE	SOLENOID VALVE		SV08-25-0-N-0	SV08-25-0-N-00 W/ 7004406 NUT	\$134.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-25M-0-N-0	SV08-25M-0-N-00 W/ 7004496 NUT	\$212.00
SOLENOID VALVE	SOLENOID VALVE		SV08-26-0-N-0	SV08-26-0-N-00 W/ 7004406 NUT	\$144.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-26M-0-N-0	SV08-26M-0-N-00 W/ 7004496 NUT	\$220.00
SOLENOID VALVE	SOLENOID VALVE		SV08-28-0-N-0	SV08-28-0-N-00 SOLENOID VALVE	\$232.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV08-28P-0-N-0	SV08-28P-0-N-00 SOLENOID VALVE	\$276.00
SOLENOID VALVE	SOLENOID VALVE		SV08-30-0-N-0	SV08-30-0-N-00 W/ 7004406 NUT	\$157.00
SOLENOID VALVE	SOLENOID VALVE		SV08-30-0-V-0	SV08-30-0-V-00 W/ 7004406 NUT	\$167.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-30M-0-N-0	SV08-30M-0-N-00 W/ 7004496 NUT	\$237.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-30M-0-V-0	SV08-30M-0-V-00 W/ 7004496 NUT	\$250.00
SOLENOID VALVE	SOLENOID VALVE	WITH SCREEN	SV08-30S-0-V-0	SV08-30S-0-V-00 W/ 7004406 NUT	\$157.00
SOLENOID VALVE	SOLENOID VALVE		SV08-31-0-N-0	SV08-31-0-N-00 W/ 7004406 NUT	\$157.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-31M-0-N-0	SV08-31M-0-N-00 W/ 7004496 NUT	\$237.00
SOLENOID VALVE	SOLENOID VALVE		SV08-33-0-N-0	SV08-33-0-N-00 W/ 7004406 NUT	\$157.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-33M-0-N-0	SV08-33M-0-N-00 W/ 7004496 NUT	\$237.00
SOLENOID VALVE	SOLENOID VALVE		SV08-35-0-N-0	SV08-35-0-N-00 SOLENOID VALVE	\$157.00
SOLENOID VALVE	SOLENOID VALVE		SV08-40-0-N-0	SV08-40-0-N-00 W/ 7004406 NUT	\$174.00

Category	Product Type	Option	Code	Description	List Price
SOLENOID VALVE	SOLENOID VALVE		SV08-40-0-P-0	SV08-40-0-P-00 W/ 7004406 NUT	\$206.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-40M-0-N-0	SV08-40M-0-N-00 W/ 7004496 NUT	\$252.00
SOLENOID VALVE	SOLENOID VALVE		SV08-41-0-N-0	SV08-41-0-N-00 W/ 7004406 NUT	\$174.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-41M-0-N-0	SV08-41M-0-N-00 SOLENOID VALVE	\$252.00
SOLENOID VALVE	SOLENOID VALVE		SV08-42-0-N-0	SV08-42-0-N-00 W/ 7004406 NUT	\$174.00
SOLENOID VALVE	SOLENOID VALVE		SV08-43-0-N-0	SV08-43-0-N-00 W/ 7004406 NUT	\$174.00
SOLENOID VALVE	SOLENOID VALVE		SV08-44-0-N-0	SV08-44-0-N-00 W/ 7004406 NUT	\$174.00
SOLENOID VALVE	SOLENOID VALVE		SV08-45-0-N-0	SV08-45-0-N-00 W/ 7004406 NUT	\$186.00
SOLENOID VALVE	SOLENOID VALVE		SV08-47A-0-N-0	SV08-47A-0-N-00 HIGH FLOW VALVE	\$276.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-47AM-0-N-0	SV08-47AM-0-N-00 SOLENOID VALVE	\$414.00
SOLENOID VALVE	SOLENOID VALVE		SV08-47B-0-N-0	SV08-47B-0-N-00 SOLENOID VALVE	\$276.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-47BM-0-N-0	SV08-47BM-0-N-00 SOLENOID VALVE	\$414.00
SOLENOID VALVE	SOLENOID VALVE		SV08-47C-0-N-0	SV08-47C-0-N-00 W/ 7004406 NUT	\$265.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-47CM-0-N-0	SV08-47CM-0-N-00 SOLENOID VALVE	\$396.00
SOLENOID VALVE	SOLENOID VALVE		SV08-47D-0-N-0	SV08-47D-0-N-00 W/ 7004406 NUT	\$265.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV08-47DB-0-N-0	SV08-47DB-0-N-00 SOLENOID VALVE	\$414.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV08-47DK-0-N-0	SV08-47DK-0-N-00 SOLENOID VALVE	\$442.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-47DM-0-N-0	SV08-47DM-0-N-00 SOLENOID VALVE	\$396.00
SOLENOID VALVE	SOLENOID VALVE		SV08-47E-0-N-0	SV08-47E-0-N-00 W/ 7004406 NUT	\$258.00
SOLENOID VALVE	SOLENOID VALVE		SV08-58C-0-N-0	SV08-58C-0-N-00 SOLENOID VALVE	\$388.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV08-58CM-0-N-0	SV08-58CM-0-N-00 SOLENOID VALVE	\$520.00
SOLENOID VALVE	SOLENOID VALVE		SV08-58D-0-N-0	SV08-58D-0-N-00 SOLENOID VALVE	\$388.00
SOLENOID VALVE	SOLENOID VALVE		SV10-20-0-N-0	SV10-20-0-N-00 W/ 7004406 NUT	\$157.00
SOLENOID VALVE	SOLENOID VALVE		SV10-20-0-V-0	SV10-20-0-V-00 W/ 7004406 NUT	\$172.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-20M-0-N-0	SV10-20M-0-N-00 W/ 7004596 NUT	\$244.00
SOLENOID VALVE	SOLENOID VALVE	WITH SCREEN	SV10-20S-0-N-0	SV10-20S-0-N-00 W/ 7004406 NUT	\$180.00
SOLENOID VALVE	SOLENOID VALVE	MAN O/RIDE SMALL KNUR	SV10-20Y-0-N-0	SV10-20Y-0-N-00 CARTRIDGE	\$291.00
SOLENOID VALVE	SOLENOID VALVE		SV10-21-0-N-0	SV10-21-0-N-00 W/ 7004426 NUT	\$212.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV10-21K-0-N-0	SV10-21K-0-N-00 W/ 7004426 NUT	\$272.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-21P-0-N-0	SV10-21P-0-N-00 W/ 7004426 NUT	\$258.00
SOLENOID VALVE	SOLENOID VALVE		SV10-22-0-N-0	SV10-22-0-N-00 W/ 7004406 NUT	\$174.00
SOLENOID VALVE	SOLENOID VALVE	CABLE OVERRIDE	SV10-22J-0-N-0	SV10-22J-0-N-00 CARTRIDGE	\$304.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-22M-0-N-0	SV10-22M-0-N-00 W/ 7004596 NUT	\$258.00
SOLENOID VALVE	SOLENOID VALVE		SV10-23-0-N-0	SV10-23-0-N-00 W/ 7004426 NUT	\$226.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV10-23K-0-N-0	SV10-23K-0-N-00 W/ 7004426 NUT	\$286.00
SOLENOID VALVE	SOLENOID VALVE		SV10-24-0-N-0	SV10-24-0-N-00 W/ 7004406 NUT	\$157.00
SOLENOID VALVE	SOLENOID VALVE		SV10-24-0-V-0	SV10-24-0-V-00 W/ 7004406 NUT	\$167.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-24M-0-N-0	SV10-24M-0-N-00 W/ 7004596 NUT	\$240.00
SOLENOID VALVE	SOLENOID VALVE		SV10-25-0-N-0	SV10-25-0-N-00 W/ 7004406 NUT	\$167.00
SOLENOID VALVE	SOLENOID VALVE		SV10-25-0-V-0	SV10-25-0-V-00 W/ 7004406 NUT	\$180.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-25M-0-N-0	SV10-25M-0-N-00 W/ 7004596 NUT	\$258.00
SOLENOID VALVE	SOLENOID VALVE		SV10-28-0-N-0	SV10-28-0-N-00 SOLENOID VALVE	\$291.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-28M-0-N-0	SV10-28M-0-N-00 SOLENOID VALVE	\$378.00
SOLENOID VALVE	SOLENOID VALVE		SV10-29-0-N-00	SV10-29-0-N-00 SOLENOID VALVE	\$336.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV10-29P-0-N-0	SV10-29P-0-N-00 SOLENOID VALVE	\$383.00
SOLENOID VALVE	SOLENOID VALVE		SV10-31-0-N-0	SV10-31-0-N-00 W/ 7004406 NUT	\$186.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-31M-0-N-0	SV10-31M-0-N-00 W/ 7004596 NUT	\$272.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-31M-0-V-0	SV10-31M-0-V-00 W/ 7004596 NUT	\$286.00
SOLENOID VALVE	SOLENOID VALVE		SV10-33-0-N-0	SV10-33-0-N-00 W/ 7004406 NUT	\$193.00
SOLENOID VALVE	SOLENOID VALVE		SV10-33-0-V-0	SV10-33-0-V-00 W/ 7004406 NUT	\$204.00
SOLENOID VALVE	SOLENOID VALVE		SV10-34-0-N-0	SV10-34-0-N-00 W/ 7004406 NUT	\$193.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-34M-0-N-0	SV10-34M-0-N-00 W/ 7004596 NUT	\$276.00
SOLENOID VALVE	SOLENOID VALVE		SV10-40-0-N-0	SV10-40-0-N-00 W/ 7004406 NUT	\$199.00
SOLENOID VALVE	SOLENOID VALVE		SV10-40-0-P-0	SV10-40-0-P-00 W/ 7004406 NUT	\$237.00
SOLENOID VALVE	SOLENOID VALVE		SV10-40-0-V-0	SV10-40-0-V-00 W/ 7004406 NUT	\$218.00
SOLENOID VALVE	SOLENOID VALVE	CABLE OVERRIDE	SV10-40J-0-N-0	SV10-40J-0-N-00 SOLENOID VALVE	\$332.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-40M-0-N-0	SV10-40M-0-N-00 W/ 7004596 NUT SOLENOID	\$286.00
SOLENOID VALVE	SOLENOID VALVE		SV10-41-0-N-0	SV10-41-0-N-00 W/ 7004406 NUT	\$204.00
SOLENOID VALVE	SOLENOID VALVE		SV10-42-0-N-0	SV10-42-0-N-00 W/ 7004406 NUT	\$206.00
SOLENOID VALVE	SOLENOID VALVE		SV10-43-0-N-0	SV10-43-0-N-00 W/ 7004406 NUT	\$206.00
SOLENOID VALVE	SOLENOID VALVE		SV10-44-0-N-0	SV10-44-0-N-00 W/ 7004406 NUT	\$212.00
SOLENOID VALVE	SOLENOID VALVE		SV10-47A-0-N-0	SV10-47A-0-N-00 W/ 7004406 NUT	\$358.00
SOLENOID VALVE	SOLENOID VALVE		SV10-47B-0-N-0	SV10-47B-0-N-00 W/ 7004406	\$370.00
SOLENOID VALVE	SOLENOID VALVE		SV10-47B-0-V-0	SV10-47B-0-V-00 W/ 7004406	\$388.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-47BM-0-N-0	SV10-47BM-0-N-00 SOLENOID VALVE	\$508.00
SOLENOID VALVE	SOLENOID VALVE		SV10-47C-0-N-0	SV10-47C-0-N-00 SOLENOID VALVE	\$351.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV10-47CK-0-N-0	SV10-47CK-0-N-00 SOLENOID VALVE	\$529.00
SOLENOID VALVE	SOLENOID VALVE		SV10-47D-0-N-0	SV10-47D-0-N-00 SOLENOID VALVE	\$351.00
SOLENOID VALVE	SOLENOID VALVE		SV10-47D-0-P-0	SV10-47D-0-P-00 W/ 7004406 NUT	\$388.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV10-47DB-0-N-0	SV10-47DB-0-N-00 SOLENOID VALVE	\$496.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV10-47DK-0-N-0	SV10-47DK-0-N-00 SOLENOID VALVE	\$529.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-47DM-0-N-0	SV10-47DM-0-N-00 SOLENOID VALVE	\$482.00
SOLENOID VALVE	SOLENOID VALVE		SV10-57C-0-N-0	SV10-57C-0-N-00 SOLENOID VALVE	\$435.00
SOLENOID VALVE	SOLENOID VALVE		SV10-57D-0-N-0	SV10-57D-0-N-00 SOLENOID VALVE	\$442.00
SOLENOID VALVE	SOLENOID VALVE		SV10-58C-0-N-0	SV10-58C-0-N-00 SOLENOID VALVE	\$460.00
SOLENOID VALVE	SOLENOID VALVE		SV10-58D-0-N-0	SV10-58D-0-N-00 SOLENOID VALVE	\$460.00
SOLENOID VALVE	SOLENOID VALVE		SV10-P20A0N24ERZN3	SV10-P20A-0-N-24ER/Z-N3 SOLENOID VALVE	\$1,240.00
SOLENOID VALVE	SOLENOID VALVE		SV10-P21A0N24ERZN3	SV10-P21A-0-N-24ER/Z-N3 SOLENOID VALVE	\$1,298.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV10-P22AM-0-N-0-M3	SV10-P22AM-0-N-0-M3 SOLENOID VALVE	\$1,222.00
SOLENOID VALVE	SOLENOID VALVE		SV10-P40-0-N-0-N3	SV10-P40-0-N-0-N3 SOLENOID VALVE	\$1,163.00
SOLENOID VALVE	SOLENOID VALVE		SV10-P40-0-N-24ER/Z	SV10-P40-0-N-24ER/Z-N3 SOLENOID VALVE	\$1,279.00
SOLENOID VALVE	SOLENOID VALVE		SV12-20-0-N-0	SV12-20-0-N-00 W/ 7004406 NUT	\$265.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV12-20M-0-N-0	SV12-20M-0-N-00 W/ 7004596 NUT	\$351.00
SOLENOID VALVE	SOLENOID VALVE		SV12-21-0-N-0	SV12-21-0-N-00 W/ 7004426 NUT	\$324.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV12-21K-0-N-0	SV12-21K-0-N-00 CARTRIDGE	\$383.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV12-21P-0-N-0	SV12-21P-0-N-00 W/ 7004426 NUT	\$370.00
SOLENOID VALVE	SOLENOID VALVE		SV12-22-0-N-0	SV12-22-0-N-00 W/ 7004406 NUT	\$286.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV12-22M-0-N-0	SV12-22M-0-N-00 W/ 7004596 NUT	\$372.00

Category	Product Type	Option	Code	Description	List Price
SOLENOID VALVE	SOLENOID VALVE		SV12-23-0-N-0	SV12-23-0-N-00 W/ 7004426 NUT	\$336.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV12-23K-0-N-0	SV12-23K-0-N-00 CARTRIDGE	\$396.00
SOLENOID VALVE	SOLENOID VALVE		SV12-28-0-N-0	SV12-28-0-N-00 SOLENOID VALVE	\$405.00
SOLENOID VALVE	SOLENOID VALVE	CABLE OVERRIDE	SV12-28J-0-N-0	SV12-28J-0-N-00 SOLENOID VALVE	\$540.00
SOLENOID VALVE	SOLENOID VALVE		SV12-29-0-N-0	SV12-29-0-N-00 SOLENOID VALVE	\$424.00
SOLENOID VALVE	SOLENOID VALVE		SV12-31-0-N-0	SV12-31-0-N-00 SOLENOID VALVE	\$451.00
SOLENOID VALVE	SOLENOID VALVE		SV12-33-0-N-0	SV12-33-0-N-00 SOLENOID VALVE	\$451.00
SOLENOID VALVE	SOLENOID VALVE		SV12-33-0-V-0	SV12-33-0-V-00 SOLENOID VALVE	\$470.00
SOLENOID VALVE	SOLENOID VALVE		SV12-34-0-N-0	SV12-34-0-N-00 SOLENOID VALVE	\$463.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV12-34K-0-N-0	SV12-34K-0-N-00 SOLENOID VALVE	\$646.00
SOLENOID VALVE	SOLENOID VALVE		SV12-40R-0-N-0	SV12-40R-0-N-00 SOLENOID VALVE	\$482.00
SOLENOID VALVE	SOLENOID VALVE		SV12-41-0-N-0	SV12-41-0-N-00 W/ 7085186	\$515.00
SOLENOID VALVE	SOLENOID VALVE		SV12-60-0-N-0	SV12-60-0-N-00 SOLENOID VALVE	\$662.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV12-P20AM-0-N-0-N3	SV12-P20AM-0-N-0-N3 SOLENOID VALVE	\$1,315.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV12-P22AM-0-N-0-N3	SV12-P22AM-0-N-0-N3 SOLENOID VALVE	\$1,339.00
SOLENOID VALVE	SOLENOID VALVE		SV16-20-0-N-0	SV16-20-0-N-00 W/ 7004406 NUT SOLENOID VALVE	\$326.00
SOLENOID VALVE	SOLENOID VALVE	CABLE OVERRIDE	SV16-20J-0-N-0	SV16-20J-0-N-00 CARTRIDGE	\$460.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV16-20M-0-N-0	SV16-20M-0-N-00 W/ 7004596 NUT	\$414.00
SOLENOID VALVE	SOLENOID VALVE		SV16-21-0-N-0	SV16-21-0-N-00 W/ 7004426 NUT SOLENOID VALVE	\$378.00
SOLENOID VALVE	SOLENOID VALVE		SV16-22-0-N-0	SV16-22-0-N-00 W/ 7004406 NUT	\$342.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV16-22M-0-N-0	SV16-22M-0-N-00 W/ 7004596 NUT	\$435.00
SOLENOID VALVE	SOLENOID VALVE		SV16-23-0-N-0	SV16-23-0-N-00 W/ 7004426 NUT	\$388.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV16-23P-0-N-0	SV16-23P-0-N-00 W/ 7004426 NUT	\$435.00
SOLENOID VALVE	SOLENOID VALVE	CABLE OVERRIDE	SV38-20J-0-N-0	SV38-20J-0-N-00 CARTRIDGE	\$356.00
SOLENOID VALVE	SOLENOID VALVE		SV38-26-0-N-0	SV38-26-0-N-00 W/ 7004406 NUT	\$226.00
SOLENOID VALVE	SOLENOID VALVE	WITH SCREEN	SV38-26S-0-V-0	SV38-26S-0-V-00 W/ 7004406 NUT	\$252.00
SOLENOID VALVE	SOLENOID VALVE		SV38-28-0-N-0	SV38-28-0-N-00 W/ 7004426 NUT	\$336.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV38-28K-0-N-0	SV38-28K-0-N-00 SOLENOID VALVE	\$396.00
SOLENOID VALVE	SOLENOID VALVE		SV38-30-0-N-0	SV38-30-0-N-00 W/ 7004406 NUT	\$199.00
SOLENOID VALVE	SOLENOID VALVE		SV38-38-0-N-0	SV38-38-0-N-00 W/ 7004426 NUT	\$424.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE KNOB	SV38-38K-0-N-0	SV38-38K-0-N-00 SOLENOID VALVE	\$482.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV38-38P-0-N-0	SV38-38P-0-N-00 SOLENOID VALVE	\$470.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL O/RIDE NO KNOB	SV38-38P-0-V-0	SV38-38P-0-V-00 SOLENOID VALVE	\$478.00
SOLENOID VALVE	SOLENOID VALVE		SV58-24-0-P-0	SV58-24-0-P-00 W/ 7004406 NUT	\$220.00
SOLENOID VALVE	SOLENOID VALVE		SV58-25-0-P-0	SV58-25-0-P-00 W/ 7004406 NUT	\$220.00
SOLENOID VALVE	SOLENOID VALVE		SV58-26-0-P-0	SV58-26-0-P-00 W/ 7004406 NUT	\$240.00
SOLENOID VALVE	SOLENOID VALVE		SV58-30-0-P-0	SV58-30-0-P-00 W/ 7004406 NUT	\$240.00
SOLENOID VALVE	SOLENOID VALVE	MANUAL OVERRIDE	SV58-30M-0-P-0	SV58-30M-0-P-00 W/ 7004596 NUT	\$342.00
SOLENOID VALVE	SOLENOID VALVE		SV58-40-0-P-0	SV58-40-0-P-00 W/ 7004406 NUT	\$286.00
SOLENOID VALVE	SOLENOID VALVE		SVCL10-30-0-N-0	SVCL10-30-0-N-00 SOLENOID	\$267.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV10-26A-0-N-0	SVRV10-26A-0-N-0 SV VENTED RELIEF	\$410.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV10-26B-0-N-0	SVRV10-26B-0-N-0 SV VENTED RELIEF	\$410.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV10-26C-0-N-0	SVRV10-26C-0-N-0 SV VENTED RELIEF	\$410.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV10-26D-0-N	SVRV10-26D-0-N-0 VENTED SVRV	\$410.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M120	SVRV12-26F-0-N-00-M120 CARTRIDGE	\$478.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M140	SVRV12-26F-0-N-00-M140 CARTRIDGE	\$478.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M159	SVRV12-26F-0-N-00-M159 CARTRIDGE	\$478.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M170	SVRV12-26F-0-N-00-M170 CARTRIDGE	\$478.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M190	SVRV12-26F-0-N-00-M190 CARTRIDGE	\$478.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M207	SVRV12-26F-0-N-00-M207 CARTRIDGE	\$478.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M210	SVRV12-26F-0-N-00-M210 CARTRIDGE	\$478.00
SOLENOID VALVE	SOLENOID VALVE - RELIEF		SVRV12-26F-0-N-M240	SVRV12-26F-0-N-00-M240 CARTRIDGE	\$478.00
PRESSURE CONTROL	UNLOADING VALVE		UP10-31A-0-N-60	UP10-31A-0-N-60-30/ CARTRIDGE	\$396.00
PRESSURE CONTROL	UNLOADING VALVE		UP10-31A-0-N-70	UP10-31A-0-N-70-30/ CARTRIDGE	\$396.00
PRESSURE CONTROL	UNLOADING VALVE		UP10-31A-0-N-80	UP10-31A-0-N-80-30/ CARTRIDGE	\$396.00



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