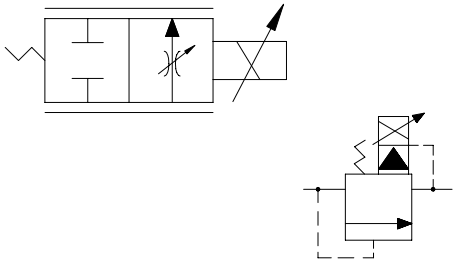




SECTION/Description	Pages
2W Proportional Valves	453
3W Proportional Valves	467

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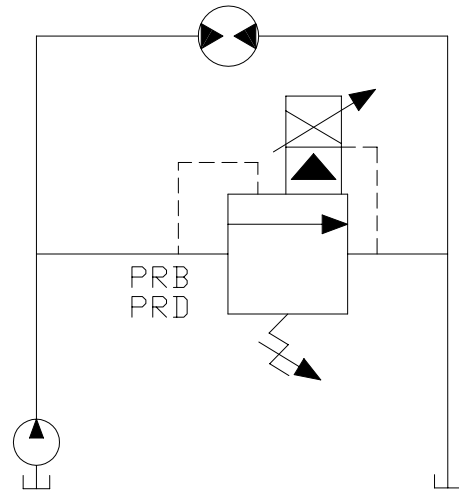
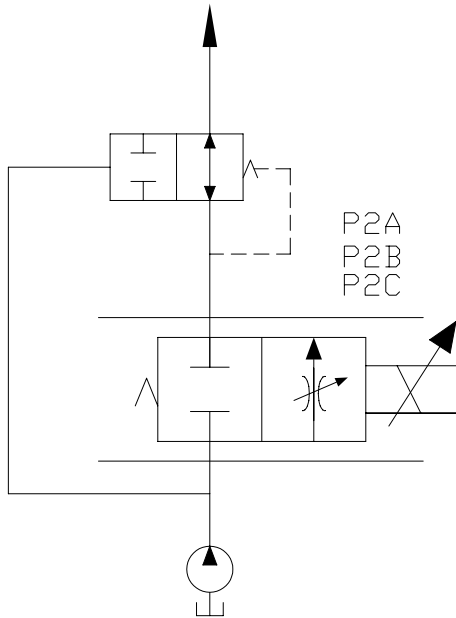
2W Proportional Valves

	GPM	PSI	LPM	BAR	MODEL	PAGE
	4.5	300	17	21	EE-P2A	454
	9	3000	34	207	EE-P2B	456
	9	3000	34	207	EE-P2C	458
	12	3000	45	207	EE-PRB	460
	30	3000	114	207	ET-PRB	462
	12	3000	45	207	EE-PRD	464

Typical Schematic

Typical application for the P2A, P2B, and P2C is for speed control.

Typical application for the PRB and PRD is for fan or motor speed control.



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EE-P2A 2 Way, Normally Closed, Proportional Flow Control Valve

DESCRIPTION

10 size, 7/8-14 thread, "Delta" series, solenoid operated, 2 way normally closed, proportional flow control valve.

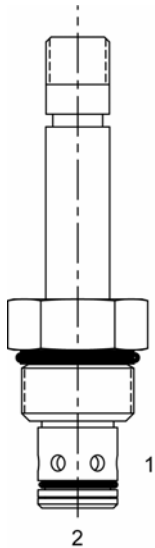
OPERATION

When de-energized the EE-P2A blocks flow at ports (1) and (2).

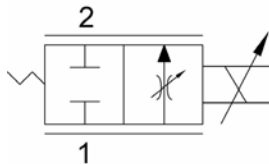
When energized, the valve allows flow from (1) to (2). Flow is proportional to current applied to the coil. A compensator must be used to create a pressure compensated flow control function.

FEATURES

- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Industry common cavity.
- Unitized, molded coil design.
- Continuous duty rated solenoid.
- Optional coil voltages and terminations.



HYDRAULIC SYMBOL

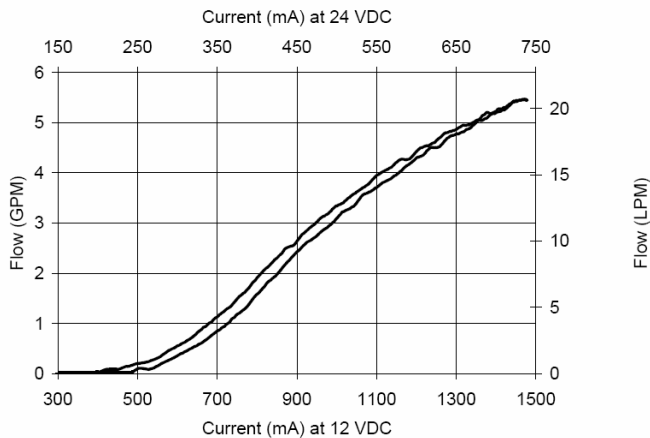


Requires use of a compensator to give pressure compensated flow control function.

If low voltage is expected on the machine, 12 or 24 volt systems will require the use of 10 volt or 20 volt coils respectively. Consult Factory for availability of these coil options.

Consult Factory for electrical signal recommendations.

PERFORMANCE



VALVE SPECIFICATIONS

Nominal Flow	0 - 4.5 GPM (0 - 17 LPM)
Max Differential Pressure	300 PSI (21bar)
PSID	150 PSI (10 bar)
Max System Pressure	3000 PSI (207 bar)
Hysteresis	10%
Threshold	20% to 40% of Full Current
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.29 lbs. (.13 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Nut Torque Requirements	4-6 ft-lbs (5.4-8.1 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

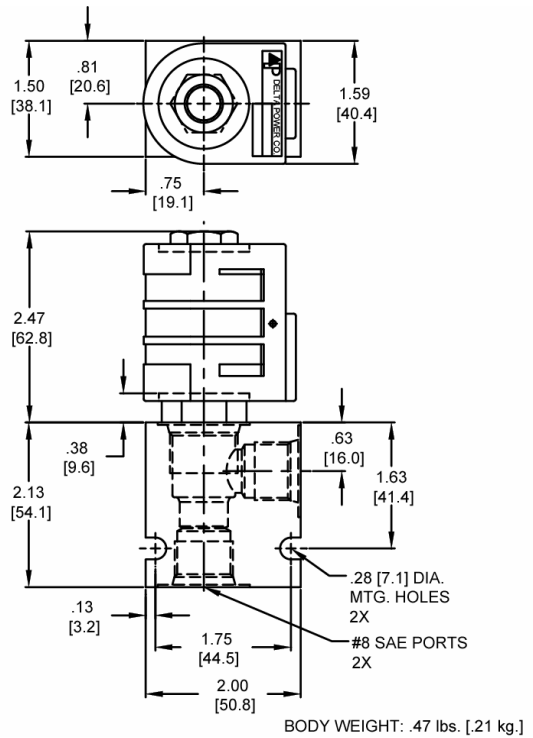
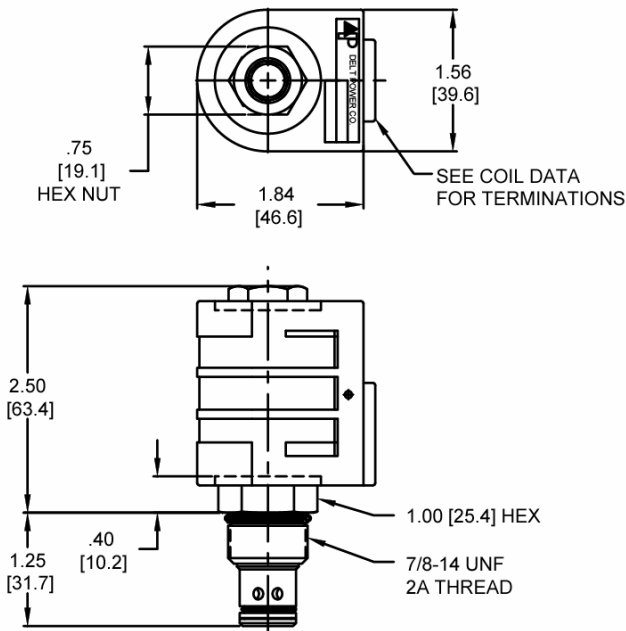
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Phone: (815) 397-6628

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E-mail: delta@delta-power.com

DIMENSIONS



ORDERING INFORMATION

EE-P2A - - - -

OPTIONS

- Buna Standard **00**
- Viton Standard **V0**
- Buna, Screen **A0**
- Viton, Screen **W0**

BODIES

- Blank
- N** Without Body
- S** 3/8 NPTF Ports
- S** #8 SAE Ports

VOLTAGE

- 06** 6 VDC
- 12** 12 VDC
- 24** 24 VDC
- 36** 36 VDC
- 48** 48 VDC

Note: Use screen only if flow direction is from (1) to (2).

"D" COIL TERMINATION

- DL** Double Lead
- DT** Deutsch on Leads DT04-2P
- ML** Metri-Pack on Leads
- PL** Packard on Leads
- WL** Weatherpack on Leads
- SS** Single Spade
- DS** Double Spade
- HC** DIN 43650 (Hirschman)
- DI** Deutsch - Integral DT04-2P

Approximate Coil Weight: .74 lbs. (.33 kg.)

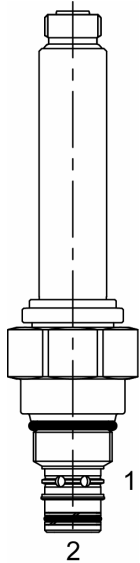
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EE-P2B 2 Way, Normally Closed, Proportional Flow Control Valve



DESCRIPTION

10 size, 7/8-14 thread, "Delta" series, solenoid operated, 2 way normally closed, proportional flow control valve.

OPERATION

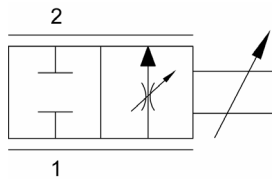
When de-energized the EE-P2B blocks flow at ports (1) and (2).

When energized, the cartridge's spool moves to restrict the flow from (1) to (2). Flow orifice is proportional to current applied to the coil. A compensator must be used to create a pressure compensated flow control function.

FEATURES

- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Industry common cavity.
- Unitized, molded coil design.
- Continuous duty rated solenoid.
- Optional coil voltages and terminations.

HYDRAULIC SYMBOL



Uses "T" Tecnord coil.



Requires use of a compensator to give pressure compensated flow control function.

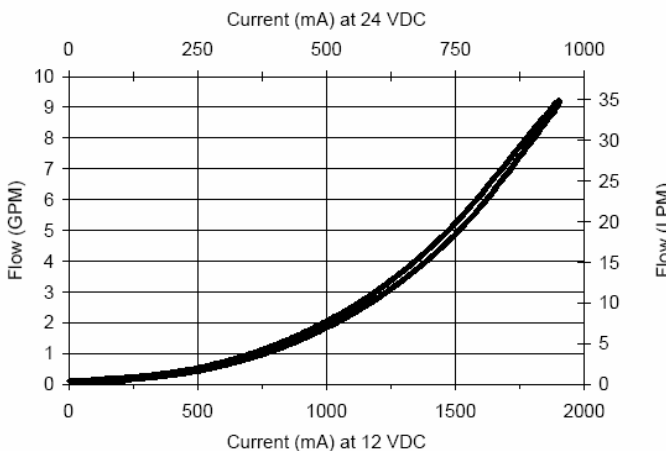
For best performance valve must be purged of air. Locate below reservoir or add check valve to return.

Recommended vehicle installation is Tube Down or Horizontal after purging. (Air work out of valve) Fasting purge position during bleeding/Start up is with the tube up. (Air works out of valve).

Recommended PWM Frequency 200Hz, for questions consult Factory for specific electrical signal recommendations.

PERFORMANCE

Actual Test Data (Cartridge Only)



VALVE SPECIFICATIONS

Nominal Flow	0-9 GPM (0-34 LPM)
Max System Pressure	3000 PSI (207 bar)
Typical Hysteresis	5%
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.31 lbs. (.14 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Nut Torque Requirements	5-7 ft-lbs (6.8-9.5 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191202

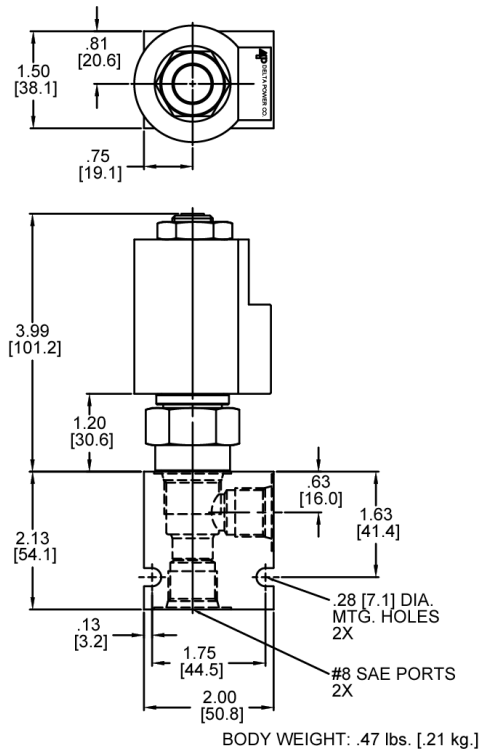
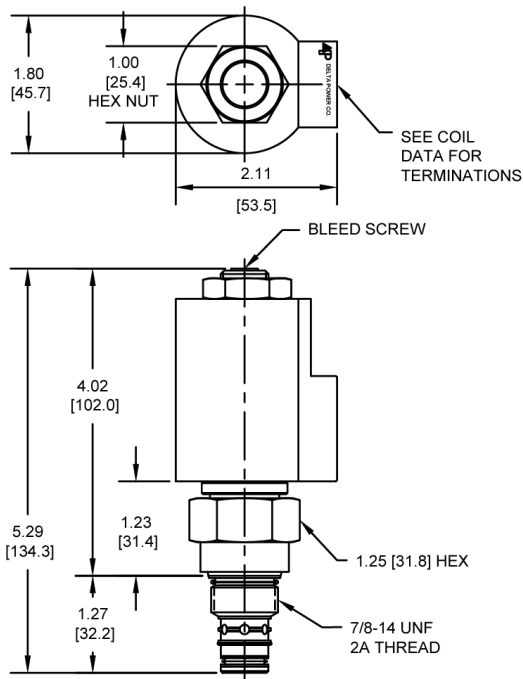
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E-mail: delta@delta-power.com

DIMENSIONS



ORDERING INFORMATION

EE-P2B

- OPTIONS**
 Buna Standard **00**
 Viton Standard **V0**
 Buna, Screen **A0**
 Viton, Screen **W0**

- BODIES**
 Without Body **N**
 3/8 NPTF Ports **S**
 #8 SAE Ports

- VOLTAGE**
06 6 VDC
12 12 VDC
24 24 VDC
36 36 VDC
48 48 VDC

Note: Use screen only if flow direction is from (1) to (2).

"T" TYPE COIL TERMINATION

- | | |
|------------------------------------|---------------------------------|
| DL Double Lead | DS Double Spade |
| DT Deutsch on Leads DT04-2P | HC DIN 43650 (Hirschman) |
| ML Metri-Pack on Leads | |
| PL Packard on Leads | |
| WL Weatherpack on Leads | |

Approximate Coil Weight: .89 lbs. (.41 kg.)

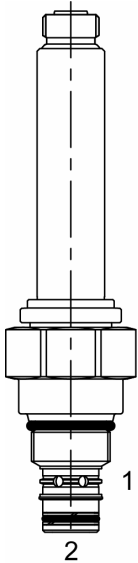
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EE-P2C 2 Way, Normally Open, Proportional Flow Control Valve



DESCRIPTION

10 size, 7/8-14 thread, "Delta" series, solenoid operated, 2 way normally open, proportional flow control valve.

OPERATION

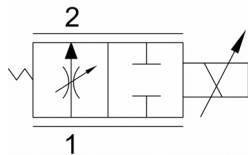
When de-energized the EE-P2C allows flow from (1) to (2).

When energized, the cartridge's spool moves to restrict the (1) to (2) flow path. Flow orifice is inversely proportional to current applied to the coil. A compensator must be used to create a pressure compensated flow control function.

FEATURES

- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Industry common cavity.
- Unitized, molded coil design.
- Continuous duty rated solenoid.
- Optional coil voltages and terminations.

HYDRAULIC SYMBOL



Uses "T" Tecnord coil.

Requires use of a compensator to give pressure compensated flow control function.



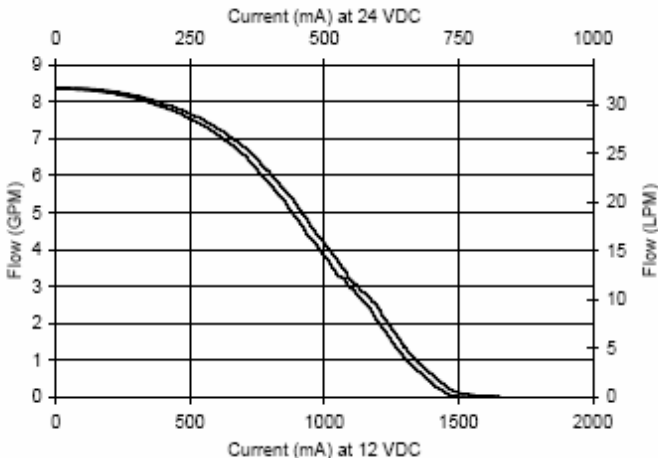
For best performance valve must be purged of air.
Locate below reservoir or add check valve to return.

Recommended vehicle installation is Tube Down or Horizontal after purging. (Air work out of valve) Fasting purge position during bleeding/Start up is with the tube up. (Air works out of valve).

Recommended PWM Frequency 200Hz, for questions consult Factory for specific electrical signal recommendations.

PERFORMANCE

Actual Test Data (Cartridge Only)



VALVE SPECIFICATIONS

Nominal Flow	0-9 GPM (0-34 LPM)
Max System Pressure	3000 PSI (207 bar)
Typical Hysteresis	5%
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.83 lbs. (.38 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Nut Torque Requirements	5-7 ft-lbs (6.8-9.5 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191202

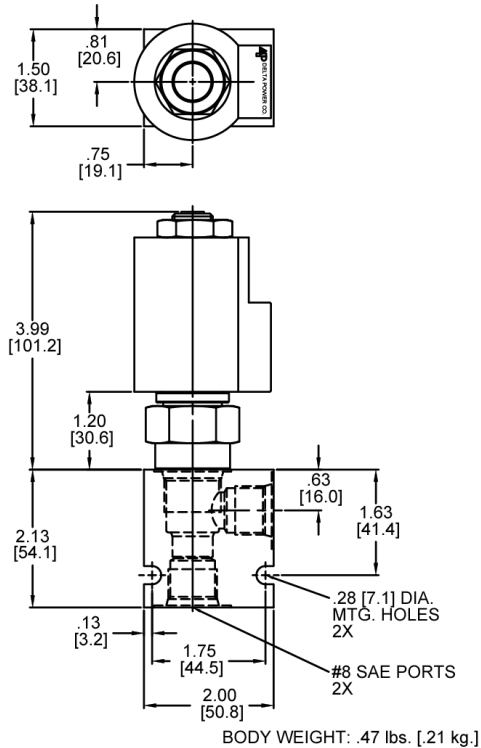
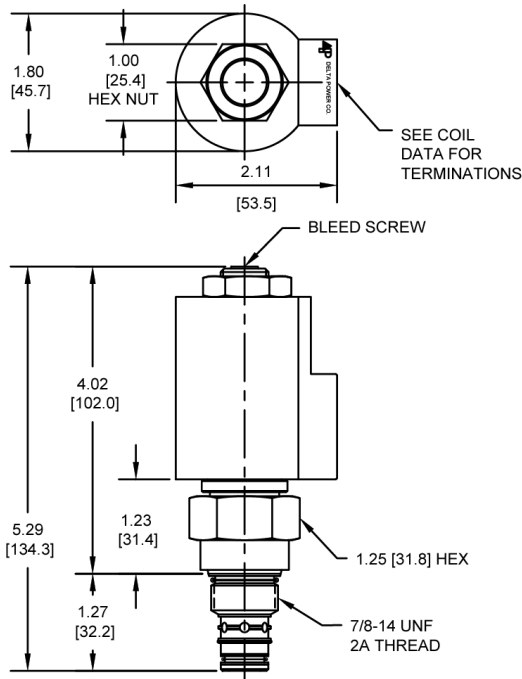
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E-mail: delta@delta-power.com

DIMENSIONS



ORDERING INFORMATION

EE-P2C - - -

OPTIONS

- Buna Standard **00**
- Viton Standard **V0**
- Buna, Screen **A0**
- Viton, Screen **W0**

BODIES

- Blank
- N** Without Body
- S** 3/8 NPTF Ports
- S** #8 SAE Ports

VOLTAGE

- 06** 6 VDC
- 12** 12 VDC
- 24** 24 VDC
- 36** 36 VDC
- 48** 48 VDC

Note: Use screen only if flow direction is from (1) to (2).

"T" TYPE COIL TERMINATION

- DL** Double Lead
- DT** Deutsch on Leads DT04-2P
- ML** Metri-Pack on Leads
- PL** Packard on Leads
- WL** Weatherpack on Leads
- DS** Double Spade
- HC** DIN 43650 (Hirschman)

Approximate Coil Weight: .89 lbs. (.41 kg.)

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EE-PRB 2 Way, Normally Closed, Proportional Relief Valve

DESCRIPTION

10 size, 7/8-14 thread, "Delta" series, solenoid operated, 2 way normally closed, pilot operated spool type hydraulic relief valve.

OPERATION

The EE-PRB blocks flow from (2) to (1) until sufficient pressure is present at (2) to offset a spring induced force. As solenoid current is increased, it offsets a portion of this force, resulting in a lower relief pressure.

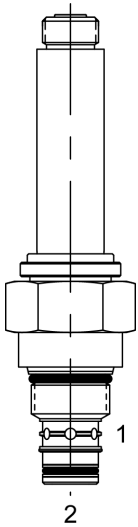
Can be infinitely adjusted across a prescribed range using a variable electric input. Pressure output is inversely proportional to DC current input. This valve is intended for use as a pressure limiting device in demanding applications.

With full current applied to the solenoid, the valve will free flow from (2) to (1), at approximately 50 PSI

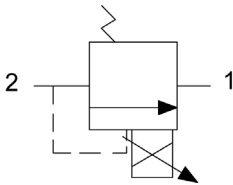
Note: Backpressure on port (1) becomes additive to the pressure setting at a 1:1 ratio.

FEATURES

- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Industry common cavity.
- Unitized, molded coil design.
- Continuous duty rated solenoid.
- Optional coil voltages and terminations.



HYDRAULIC SYMBOL



Great for fan drive motor control.



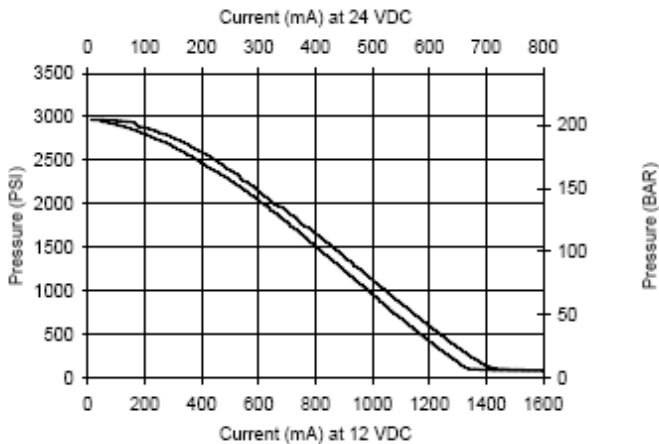
For best performance valve must be purged of air.
Locate below reservoir or add check valve to return.

Recommended vehicle installation is Tube Down or Horizontal after purging. (Air work out of valve) Fasting purge position during bleeding/Start up is with the tube up. (Air works out of valve).

Recommended PWM Frequency 200Hz, for questions consult Factory for specific electrical signal recommendations.

PERFORMANCE

Actual Test Data (Cartridge Only)



VALVE SPECIFICATIONS

Nominal Flow	0-12 GPM (0-45 LPM)
Operating Range	50 - 3000 PSI (3.4-207 bar)
Typical Hysteresis	10% Max
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.78 lbs. (.35 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Nut Torque Requirements	5-7 ft-lbs (6.8-9.5 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191202

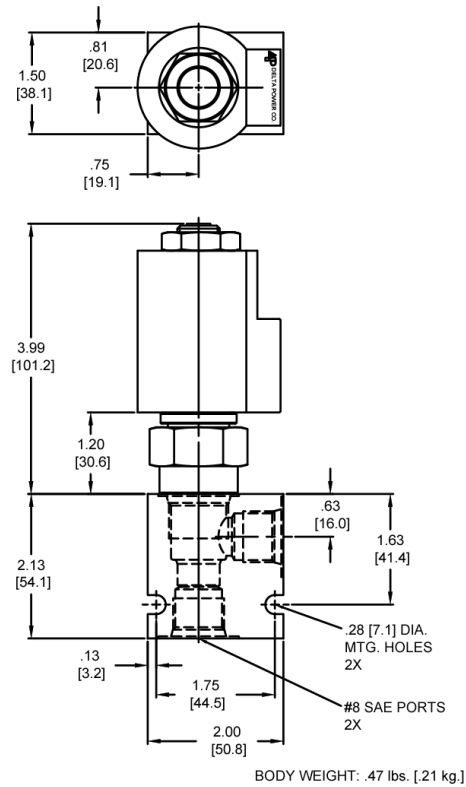
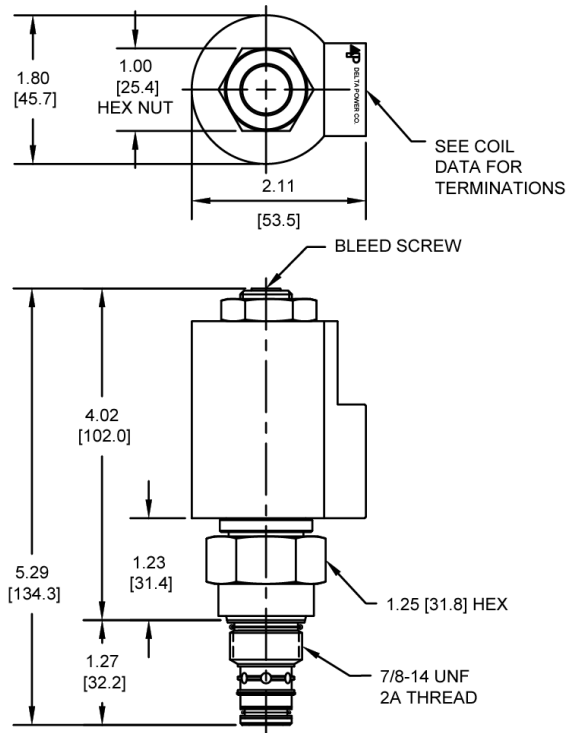
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DIMENSIONS



ORDERING INFORMATION

EE-PRB

OPTIONS
Buna Standard **00**
Viton Standard **V0**

PRESSURE RANGE
50 - 1500 PSI **15**
50 - 3000 PSI **30**

"T" COIL TERMINATION

DL Double Lead
DT Deutsch on Leads DT04-2P
ML Metri-Pack on Leads
PL Packard on Leads
WL Weatherpack on Leads

DS Double Spade
HC DIN 43650 (Hirschman)

BODIES
Blank
N Without Body
S 3/8 NPT Ports
S #8 SAE Ports

VOLTAGE
06 6 VDC
12 12 VDC
24 24 VDC
36 36 VDC
48 48 VDC

Approximate Coil Weight: .89 lbs. (.41 kg.)

WARNING: The specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

Phone: (815) 397-6628

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ET-PRB 2 Way, Normally Closed, Proportional Relief Valve

DESCRIPTION

12 size, 1 1/16-12 thread, "Tecnorm" series, solenoid operated, 2 way normally closed, pilot operated relief valve.

OPERATION

The ET-PRB blocks flow from (2) to (1) until sufficient pressure is present at (2) to offset the a spring induced force. As solenoid current is increased, its force offsets a portion of the spring force, resulting in a lower relief pressure.

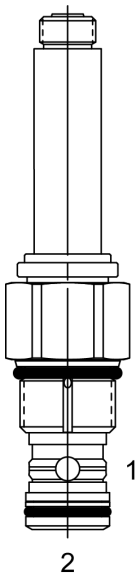
Can be infinitely adjusted across a prescribed range using a variable electric input. Pressure output is inversely proportional to DC current input. This valve is intended for use as a pressure limiting device in demanding applications.

With full current applied to the solenoid, the valve will free flow from (2) to (1) at approximately 50 PSI.

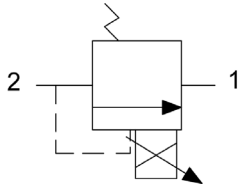
Note: Backpressure on port (1) becomes additive to the pressure setting at a 1:1 ratio.

FEATURES

- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Industry common cavity.
- Unitized, molded coil design.
- Continuous duty rated solenoid.
- Optional coil voltages and terminations.



HYDRAULIC SYMBOL



Great for fan drive motor control

For best performance valve must be purged of air.
Locate below reservoir or add check valve to return.

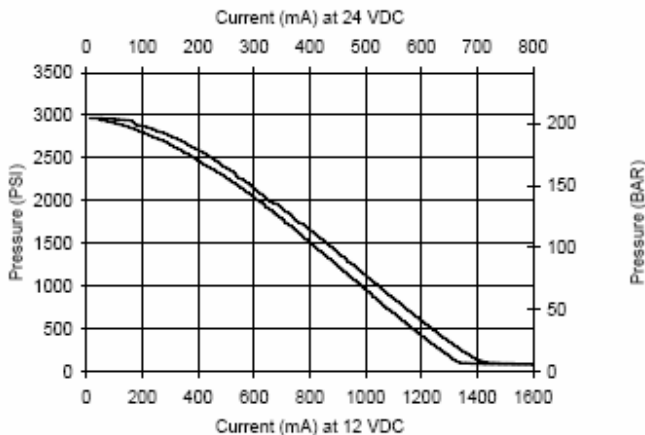


Recommended vehicle installation is Tube Down or Horizontal after purging. (Air work out of valve) Fasting purge position during bleeding/Start up is with the tube up. (Air works out of valve).

Recommended PWM Frequency 200Hz, for questions consult Factory for specific electrical signal recommendations.

PERFORMANCE

Actual Test Data (Cartridge Only)



VALVE SPECIFICATIONS

Nominal Flow	0-30 GPM (0-114 LPM)
Operating Range	50-3000 PSI (3-207 bar)
Typical Hysteresis	5%
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.77 lbs. (.35 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	70 ft-lbs (92 Nm)
Coil Nut Torque Requirements	5-7 ft-lbs (6.8-9.5 Nm)
Cavity	TECNORD 2W
Cavity Form Tool (Finishing)	40500032
Seal Kit	21191300

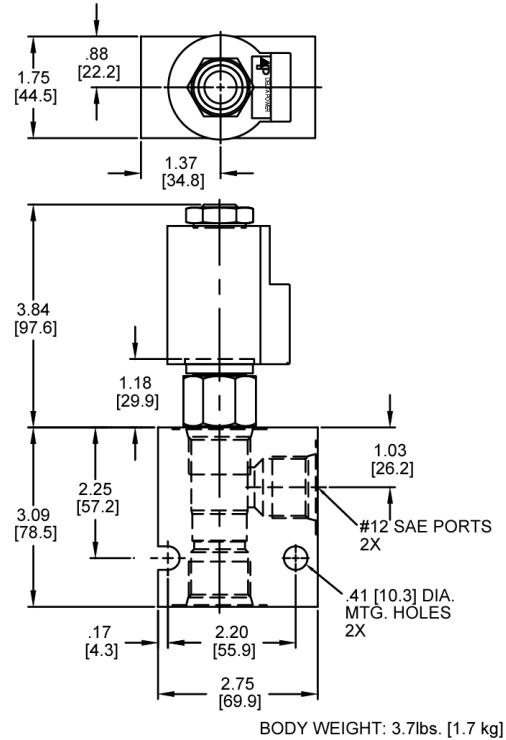
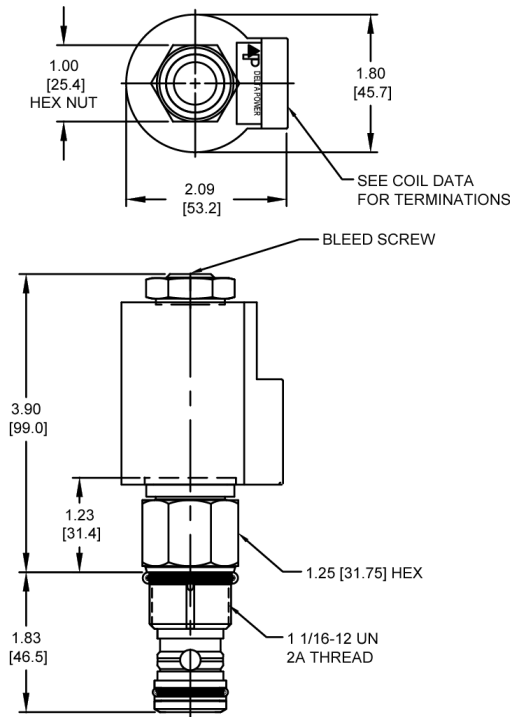
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DIMENSIONS



ORDERING INFORMATION

ET-PRB - - - - -

OPTIONS

Buna Standard **00**
Viton Standard **V0**

PRESSURE RANGE

50 - 1500 PSI **15**
50 - 3000 PSI **30**

"T" COIL TERMINATION

DL Double Lead
DT Deutsch on Leads DT04-2P
ML Metri-Pack on Leads
PL Packard on Leads
WL Weatherpack on Leads

BODIES

Without Body
#12 SAE Ports

VOLTAGE

06 6 VDC
12 12 VDC
24 24 VDC
36 36 VDC
48 48 VDC

DS Double Spade
HC DIN 43650 (Hirschman)

Approximate Coil Weight: .89 lbs. (.41 kg.)

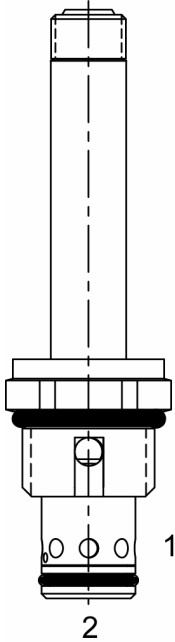
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EE-PRD 2 Way, Normally Open, Proportional Relief Valve



DESCRIPTION

10 size, 7/8-14 thread, "Delta" series, solenoid operated, 2 way normally open, hydraulic relief valve.

OPERATION

The EE-PRD blocks flow from (2) to (1) until sufficient pressure is present at (2) to offset the electrically induced solenoid force.

Can be infinitely adjusted across a prescribed range using a variable electric input. Pressure output is proportional to DC current input. This valve is intended for use as a pressure limiting device in demanding applications.

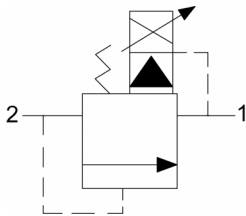
With no current applied to the solenoid, the valve will free flow from (2) to (1) at approximately 50 PSI.

Note: Backpressure on port (1) becomes additive to the pressure setting at a 1:1 ratio.

FEATURES

- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Industry common cavity.
- Unitized, molded coil design.
- Continuous duty rated solenoid.
- Optional coil voltages and terminations.

HYDRAULIC SYMBOL



Uses "P" Power coil.

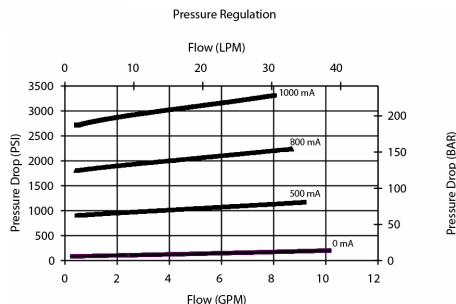
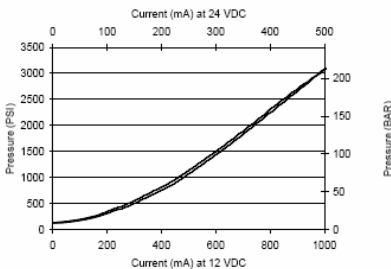
If low voltage is expected on the machine, 12 or 24 volt systems will require the use of 10 volt or 20 volt coils respectively. Consult Factory for availability of these coil options.

For best performance valve must be purged of air.
Locate below reservoir or add check valve to return.

Recommended PWM Frequency 200Hz, for questions consult Factory for specific electrical signal recommendations.

PERFORMANCE

Actual Test Data (Cartridge Only)



VALVE SPECIFICATIONS

Nominal Flow	0-12 GPM (0-45 LPM)
Operating Range	50-3000 PSI (3-207 bar)
Typical Hysteresis	5%
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.30 lbs. (.13 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Nut Torque Requirements	4-6 ft-lbs (5.4-8.1 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191202

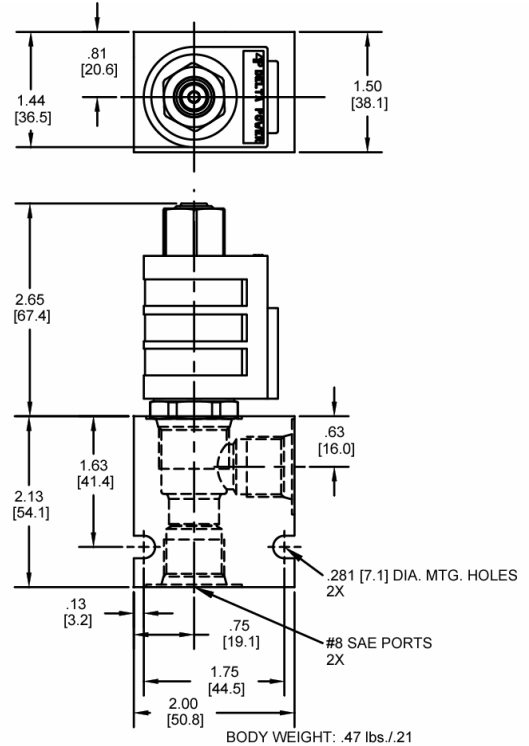
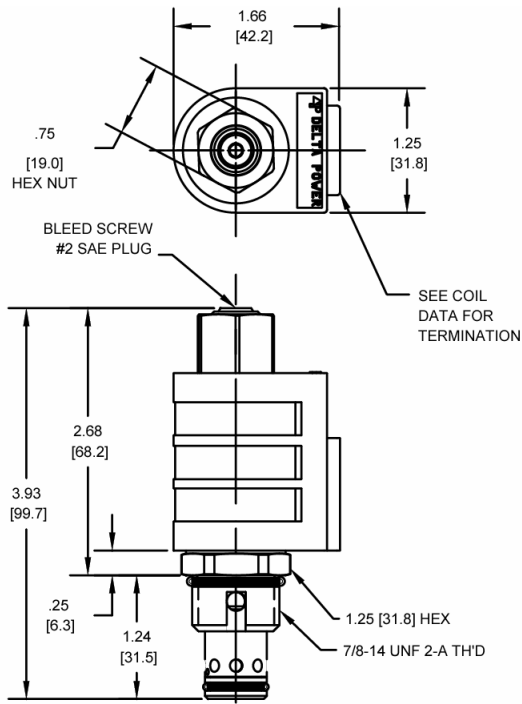
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Phone: (815) 397-6628

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E-mail: delta@delta-power.com

DIMENSIONS



ORDERING INFORMATION

EE-PRD - - -

OPTIONS

Buna Standard **00**
Viton Standard **V0**

Blank
N
S

BODIES

Without Body
3/8 NPT Ports
#8 SAE Ports

VOLTAGE

06 6 VDC
12 12 VDC
24 24 VDC
36 36 VDC
48 48 VDC

"P" COIL TERMINATION

DL Double Lead
DT Deutsch on Leads DT04-2P
ML Metri-Pack on Leads
PL Packard on Leads
WL Weatherpack on Leads

SS Single Spade
DS Double Spade
HC DIN 43650 (Hirschman)
DI Deutsch - Integral DT04-2P

Approximate Coil Weight: .42 lbs. (.19 kg.)

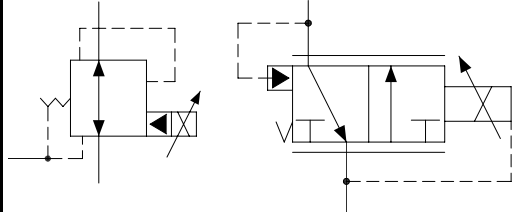
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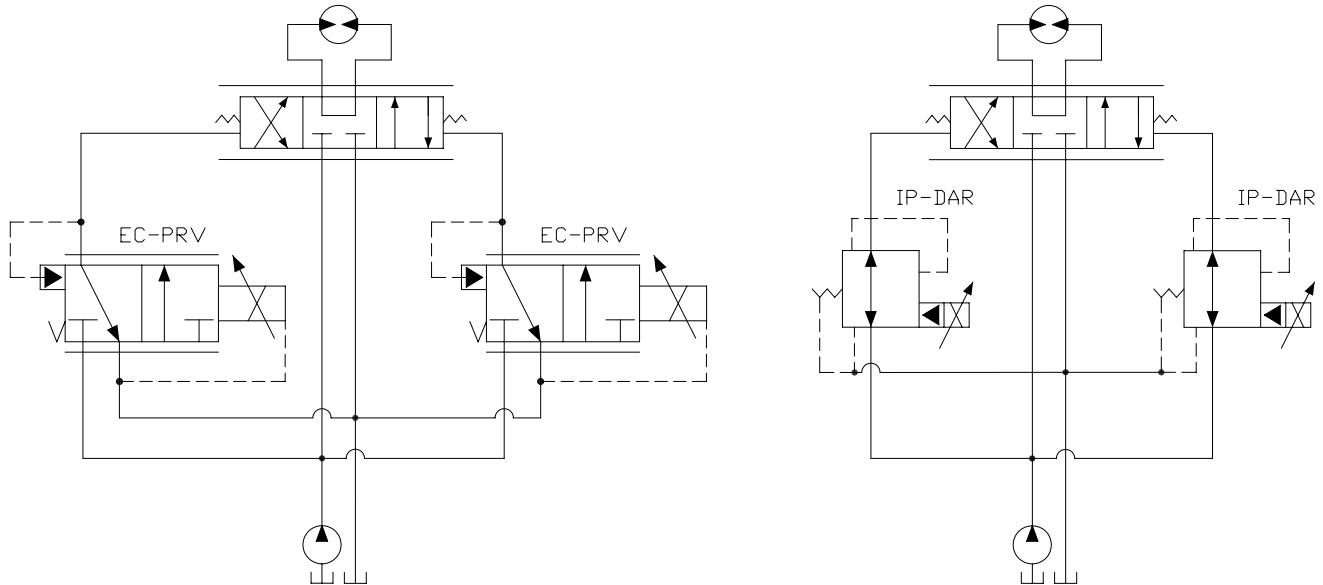
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Proportional 3W Valves

	GPM	PSI	LPM	BAR	MODEL	PAGE
	1	500	4	34	IP-DAR	604
	2	500	8	34	EC-PRV	468

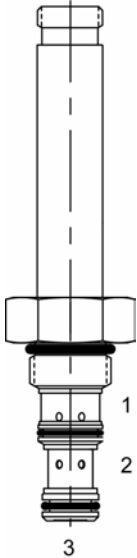
Typical Schematic

Typical application for the EC-PRV and IP-DAR is for a soft shift and flow control, used in “Powershift” transmissions, four wheel braking modulation systems, and soft shift PTO engagement systems.



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EC-PRV 3 Way 2 Position, Proportional Pressure Reducing/Relieving Valve



DESCRIPTION

7 size, 5/8-18 thread, "Mini" series, solenoid operated, 3 way 2 position, proportional pressure reducing/relieving valve.

OPERATION

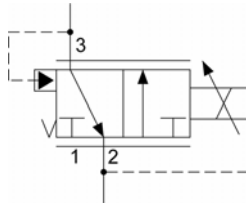
When de-energized the EC-PRV allows flow from (3) to (2) and blocks flow at (1).

When energized, the actuator creates a force proportional to the pressure that will be regulated at port (3). Oil is supplied from port (1) to (3) until desired pressure is reached. If pressure at port (3) exceeds desired level, excess oil is vented to port (2) until desired level is reached.

FEATURES

- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Industry common cavity.
- Unitized, molded coil design.
- Continuous duty rated solenoid.
- Optional coil voltages and terminations.
- Optional "I" Coil: Weatherproof, Thermal Shock, Immersion Safe.

HYDRAULIC SYMBOL

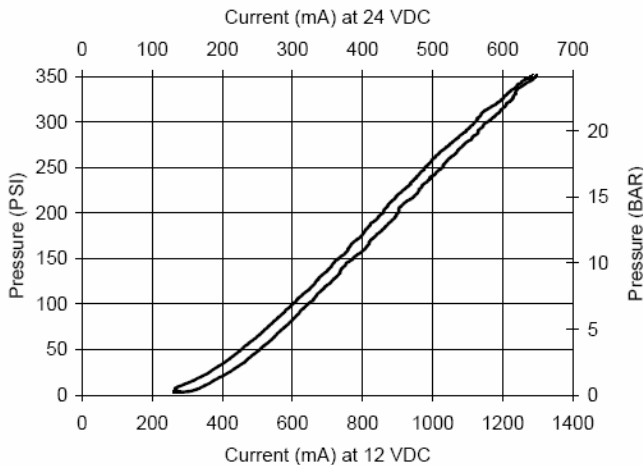


If low voltage is expected on the machine, 12 or 24 volt systems will require the use of 10 volt or 20 volt coils respectively. Consult Factory for availability of these coil options.

Other configurations for other pressure ranges available. Consult Factory for electrical signal recommendations.

PERFORMANCE

Actual Test Data (Cartridge Only)



ABOVE CURVE IS WITH HYDRAULIC OIL 150 SSU AT 100° F

VALVE SPECIFICATIONS

Nominal Flow	2 GPM (8 LPM)
Max Operating Pressure	500 PSI (35 bar)
Max Differential Pressure	300 PSI (21 bar)
Typical Hysteresis	5%
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.18 lbs. (.08 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	15 ft-lbs (20.3 Nm)
Coil Nut Torque Requirements	3-5 ft-lbs (4.1-6.8 Nm)
Cavity	MINI 3W
Cavity Form Tool (Finishing)	40500004
Seal Kit	21191010

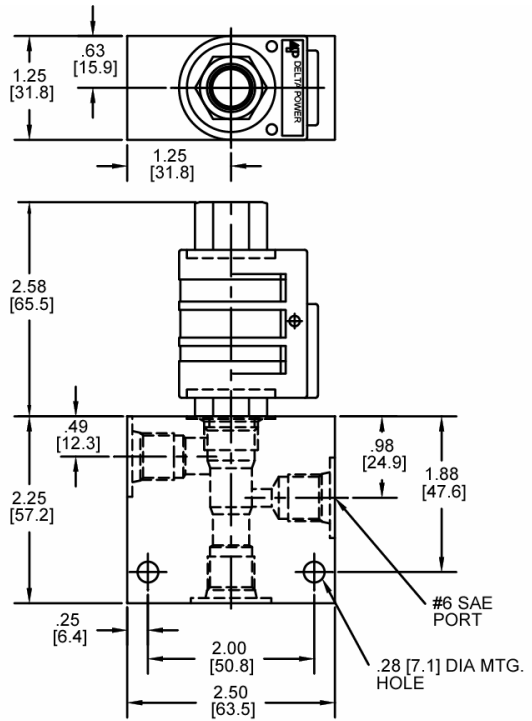
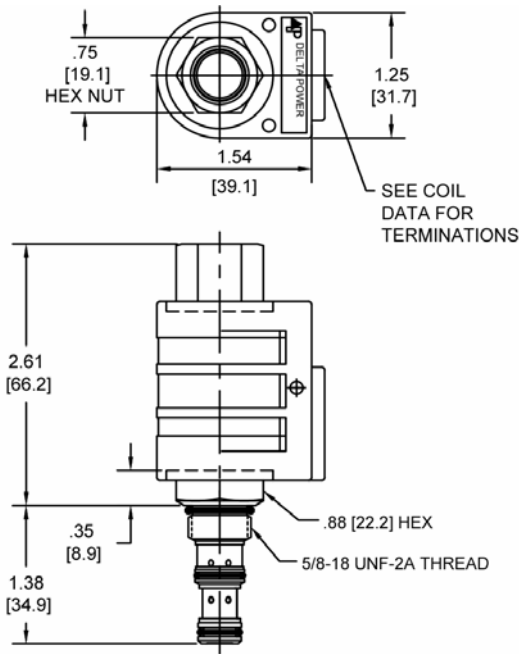
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DIMENSIONS



BODY WEIGHT: .59 lbs.

ORDERING INFORMATION

EC-PRV - - - -

OPTIONS

- Buna Standard **00**
- Viton Standard **V0**
- Buna, Screen **A0**
- Viton, Screen **W0**

Note: Use screen only if flow direction is from (1) to (2).

BODIES

- Blank
- N** 1/4 NPTF Ports
- S** #6 SAE Ports

VOLTAGE

- 06** 6 VDC
- 12** 12 VDC
- 24** 24 VDC
- 36** 36 VDC
- 48** 48 VDC

"P" COIL TERMINATION

- DL** Double Lead
- DT** Deutsch on Leads DT04-2P
- ML** Metri-Pack on Leads
- PL** Packard on Leads
- WL** Weatherpack on Leads

- SS** Single Spade
- DS** Double Spade
- HC** DIN 43650 (Hirschman) - (DC)
- DI** Deutsch - Integral DT04-2P

IMMERSION PROOF "P" COILS

- IA** "I" Coil AMP Superseal Integral
- ID** "I" Coil Deutsch Integral DT04-2P
- IJ** "I" Coil AMP Jr. Timer - Integral
- IM** "I" Coil Metri-Pack Integral

Approximate Coil Weight: .42 lbs. (.19 kg.)

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