

MECHANICAL PRESSURE CONTROL



**DIRECT ACTING AND DIFFERENTIAL AREA RELIEF VALVES** ..... MP3

**PILOT OPERATED RELIEF VALVES** ..... MP29

**CROSSOVER RELIEF VALVES** ..... MP45

**PRESSURE COMPENSATED REGULATOR VALVES** ..... MP51

**PRESSURE REDUCING/RELIEVING VALVES** ..... MP85

**SEQUENCE VALVES** ..... MP93

**SHUT DOWN VALVES** ..... MP117

**UNLOADING VALVES** ..... MP121

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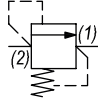


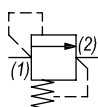
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**DIRECT ACTING AND DIFFERENTIAL AREA RELIEF VALVES**

DIRECT ACTING RELIEF VALVES	GPM	PSI	LPM	BAR	CAVITY	MODEL	PAGE
	12	3500	45	241	7/8-14	<b>DE-RCA</b>	MP4
	5	3000	19	207	5/8-18	<b>MA-RVA</b>	MP6
	6	3500	23	241	3/4-16	<b>PB-RVA</b>	MP8
	8	4000	30	276	7/8-14	<b>DE-RVA</b>	MP10
	6	3500	23	241	3/4-16	<b>PB-RVA</b>	MP12
	8	4000	30	276	7/8-14	<b>DE-RVA</b>	MP14

DIFFERENTIAL AREA RELIEF VALVES	GPM	PSI	LPM	BAR	CAVITY	MODEL	PAGE
	15	3500	57	241	7/8-14	<b>DE-RCD</b>	MP16
	8	3500	30	241	3/4-16	<b>PB-RVD</b>	MP18
	15	4000	57	276	7/8-14	<b>DE-RVD</b>	MP20
	40	5000	151	345	7/8-14	<b>HE-RVD</b>	MP22
	8	3500	30	241	3/4-16	<b>PB-RWD</b>	MP24
	15	4000	57	276	7/8-14	<b>DE-RWD</b>	MP26

**TYPICAL SCHEMATIC**

Typical application for the RVA, RVD, RWA, RWD is to protect pump and system.

Typical application for the RCA and RCD is cross over relief to protect motor in both directions, where lowest possible price is desired.

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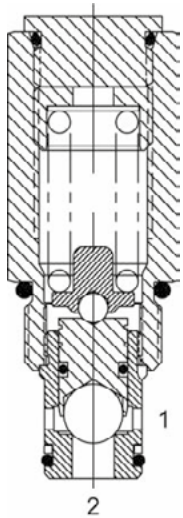


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**DE-RCA GUIDED BALL, DIRECT ACTING RELIEF VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, direct acting relief valve.

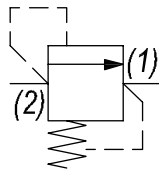
**OPERATION**

The DE-RCA blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the poppet to open and allow metered flow from (2) to (1). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

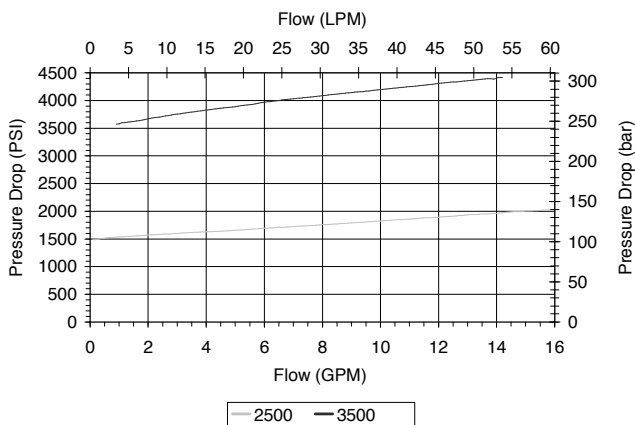
**HYDRAULIC SYMBOL**



*Installation Space Saving Product. Cannot be field adjusted. Not recommended for crossover relief valve applications, use DE-RWA.*

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	12 GPM (45 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.38 lbs (.17 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

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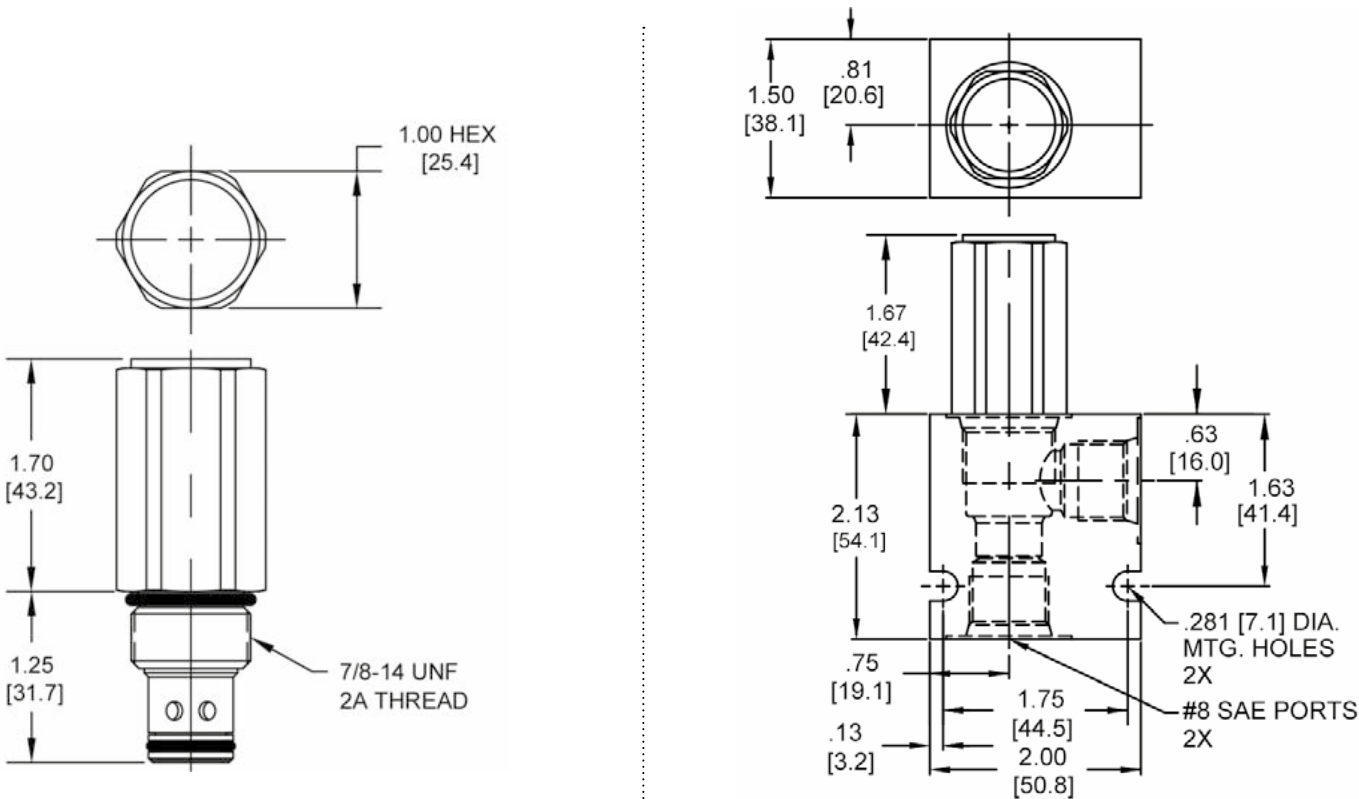


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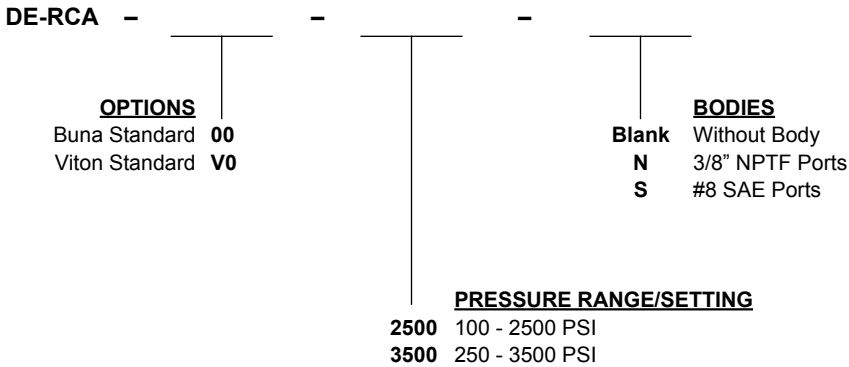
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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**



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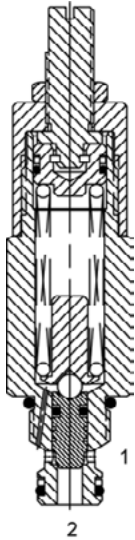


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**MA-RVA DIRECT ACTING RELIEF VALVE**



**DESCRIPTION**

7 size, 5/8-18 thread, "Mini" series, direct acting relief valve.

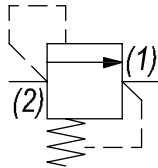
**OPERATION**

The MA-RVA blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the poppet to open and allow metered flow from (2) to (1). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

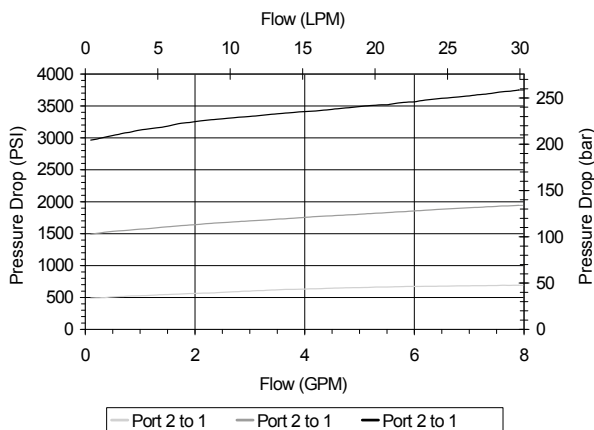
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	5 GPM (19 LPM)
Rated Operating Pressure	3000 PSI (207 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.39 lbs (.17 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	15 ft-lbs (20.3 Nm)
Cavity	MINI 2W
Cavity Form Tool (Finishing)	40500003
Seal Kit	21191000

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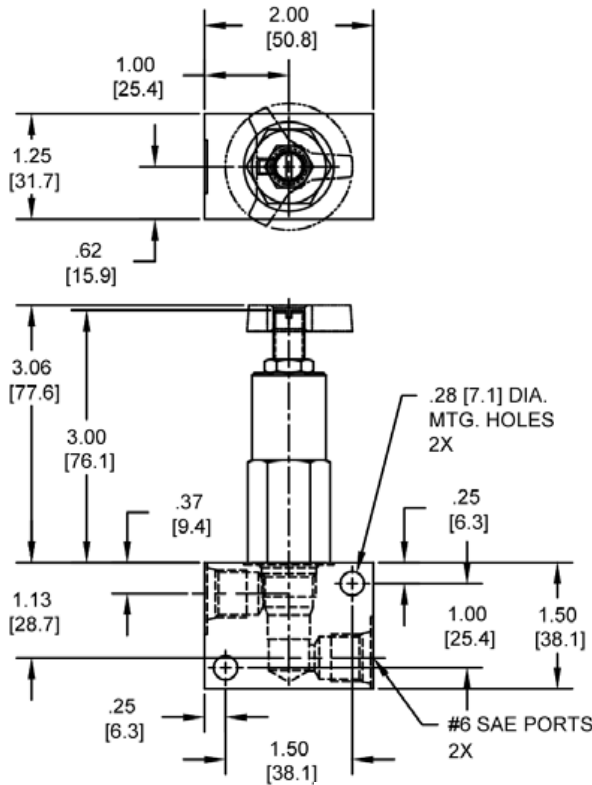
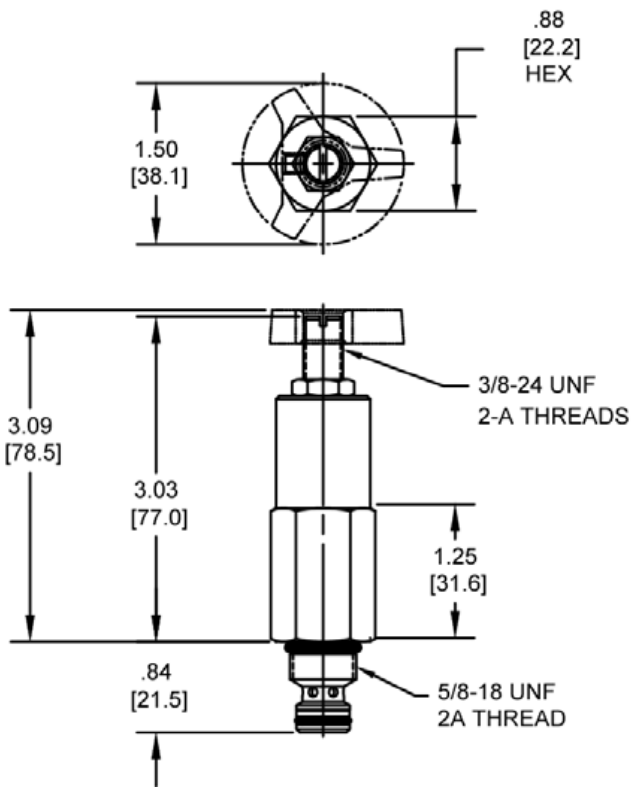


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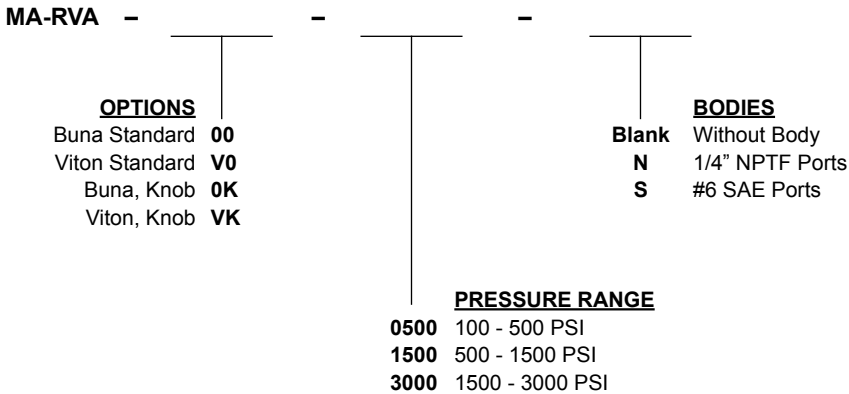
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**DIMENSIONS**



Body Weight: .29 lbs (.13 kg)

**ORDERING INFORMATION**



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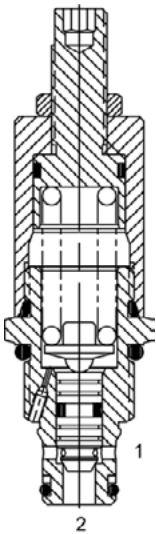


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**PB-RVA DIRECT ACTING RELIEF VALVE**



**DESCRIPTION**

8 size, 3/4-16 thread, "Power" series, direct acting relief valve.

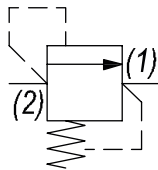
**OPERATION**

The PB-RVA blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the poppet to open and allow metered flow from (2) to (1). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

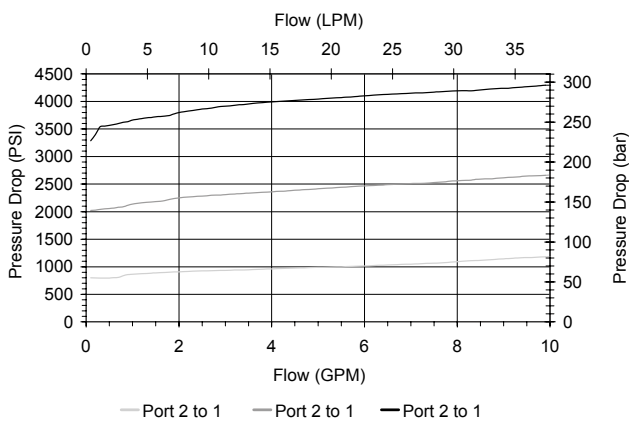
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	6 GPM (23 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.30 lbs (.14 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	25 ft-lbs (34 Nm)
Cavity	POWER 2W
Cavity Form Tool (Finishing)	40500005
Seal Kit	21191100

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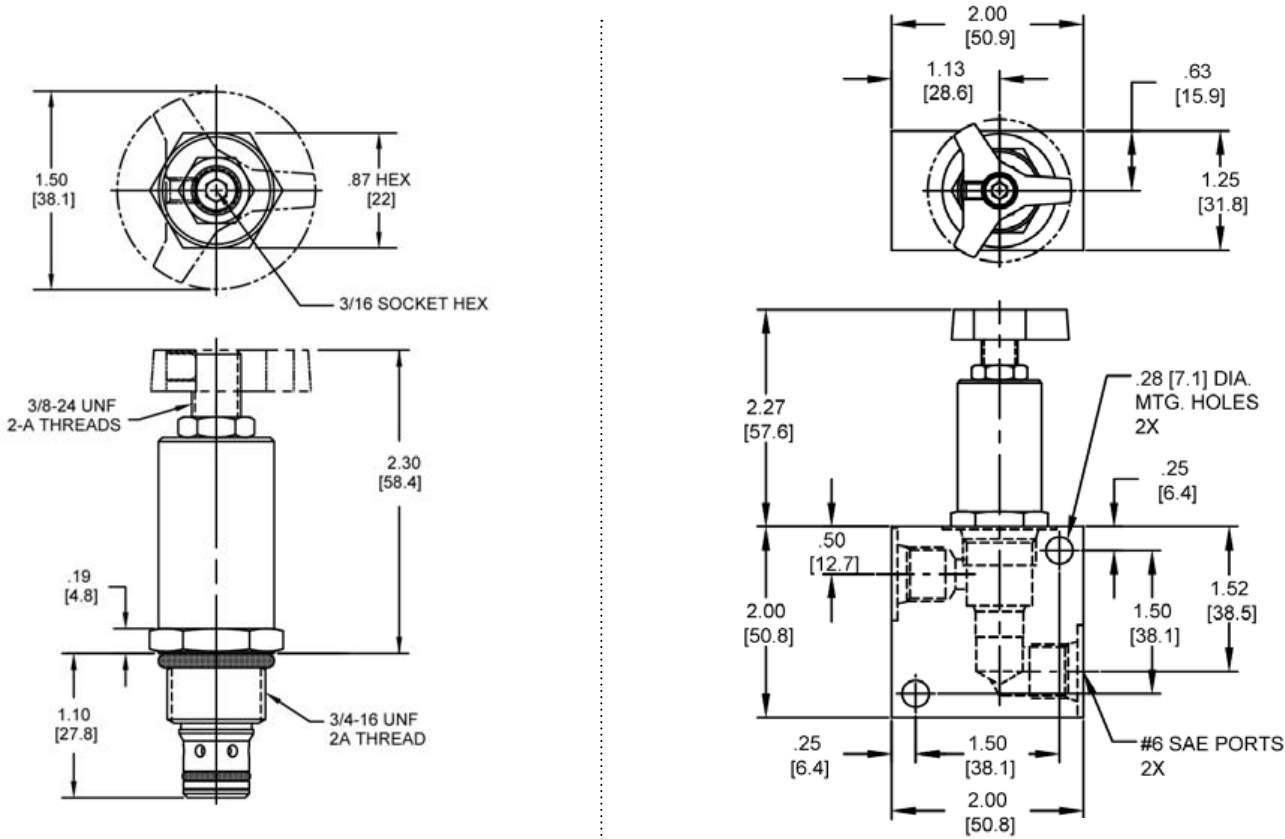
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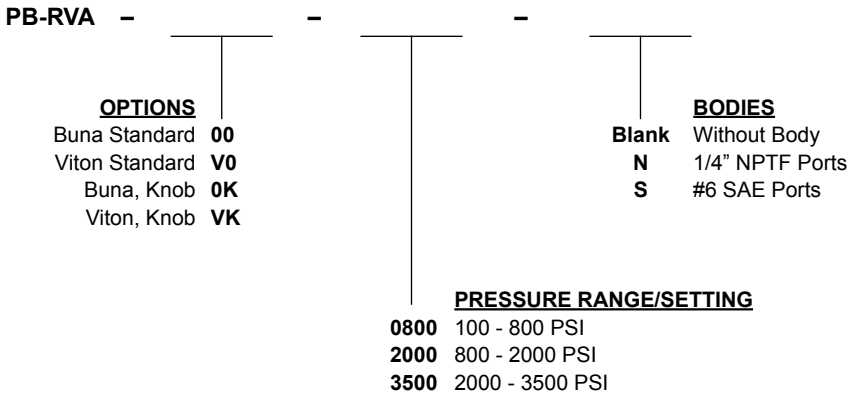


**DIMENSIONS**



Body Weight: .39 lbs (.18 kg)

**ORDERING INFORMATION**



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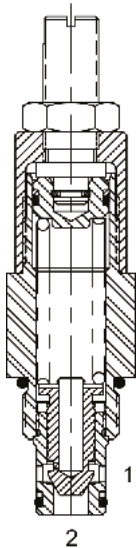


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**DE-RVA DIRECT ACTING RELIEF VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, direct acting relief valve.

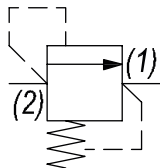
**OPERATION**

The DE-RVA blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the poppet to open and allow metered flow from (2) to (1). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

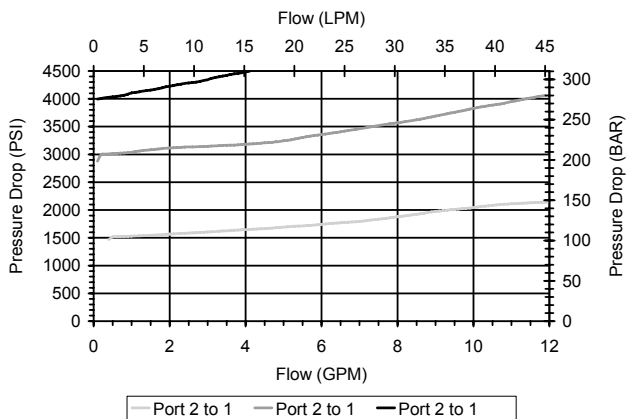
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	4 GPM (15.6 LPM) 4000 PSI
	8 GPM (30 LPM) 3000 PSI
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.56 lbs (.25 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

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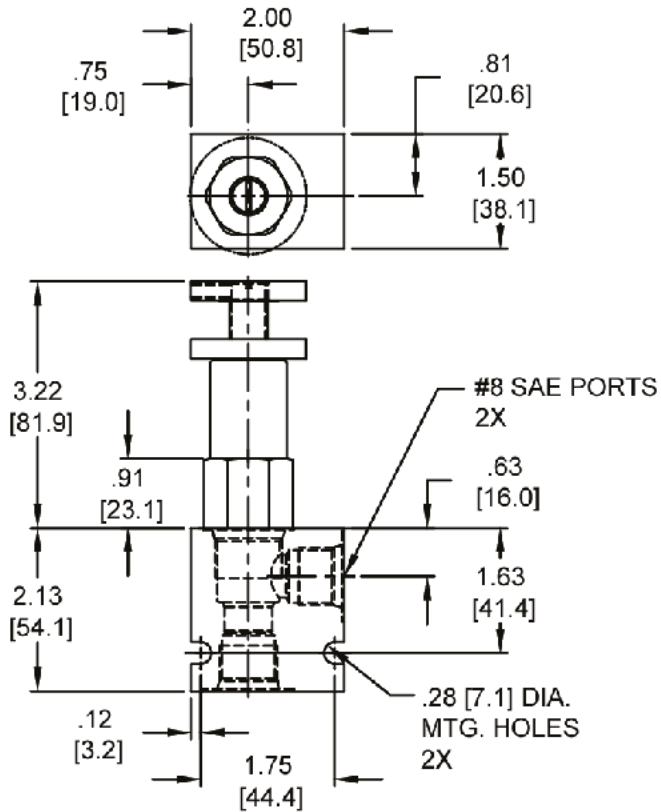
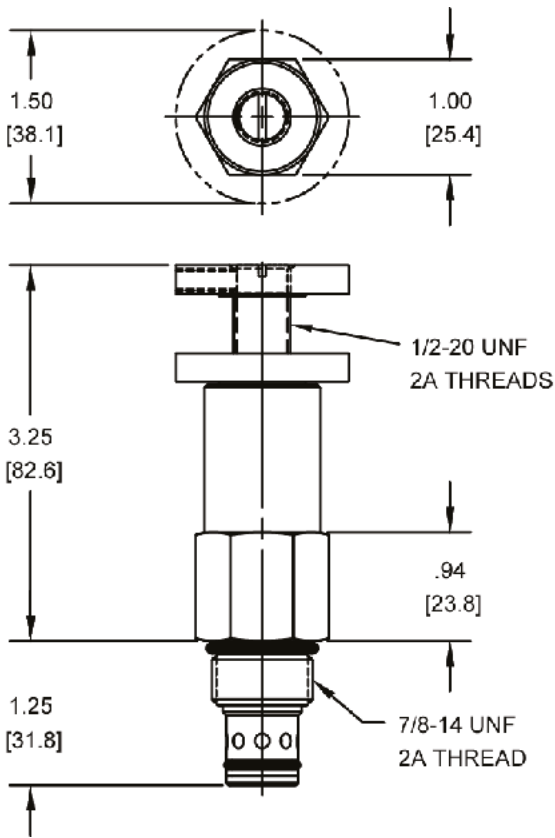


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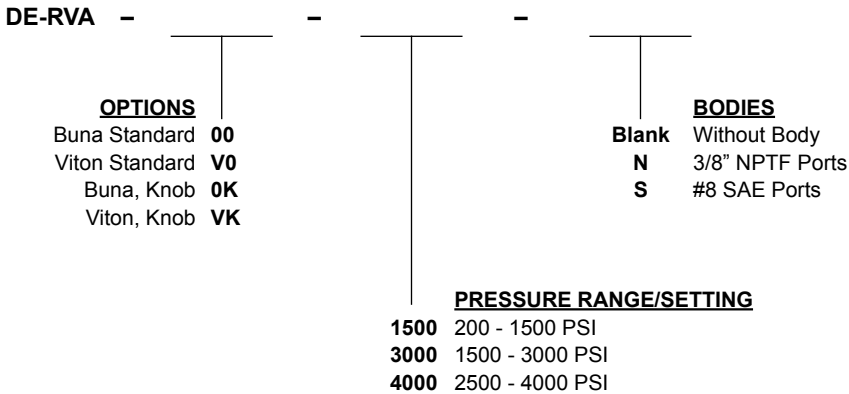
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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**



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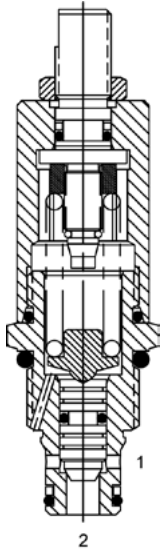


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**PB-RWA DIRECT ACTING RELIEF VALVE**



**DESCRIPTION**

8 size, 3/4-16 thread, "Power" series, direct acting relief valve.

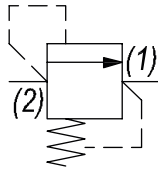
**OPERATION**

The PB-RWA blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the poppet to open and allow metered flow from (2) to (1). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

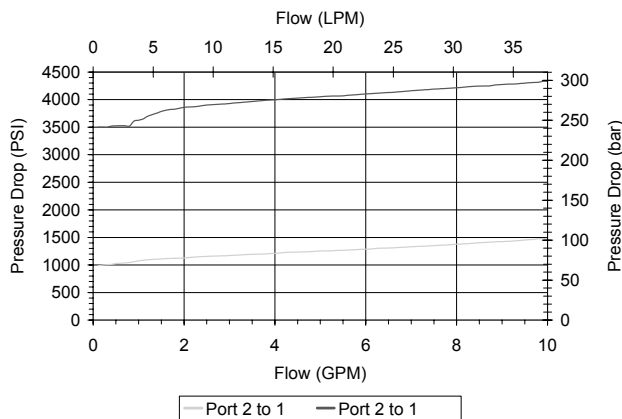
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	6 GPM (23 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.31 lbs (.14 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	25 ft-lbs (34 Nm)
Cavity	POWER 2W
Cavity Form Tool (Finishing)	40500005
Seal Kit	21191100

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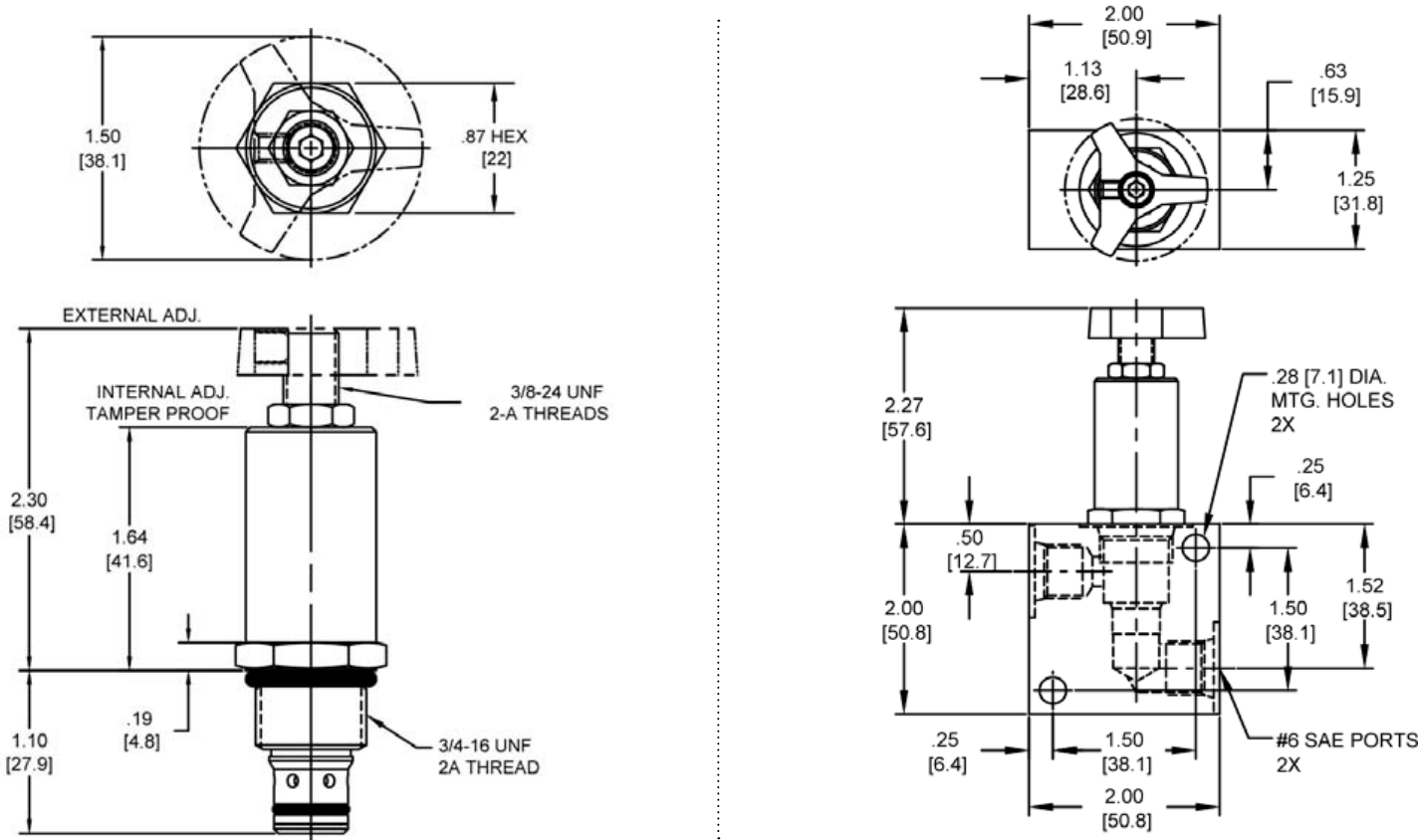


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**DIMENSIONS**



Body Weight: .39 lbs (.18 kg)

**ORDERING INFORMATION**

PB-RWA - - - -

**OPTIONS**

- Buna, External Adj. W/Locknut **00**
- Viton, External Adj. W/Locknut **V0**
- Buna, Knob **0K**
- Viton, Knob **VK**
- Buna, Internal Adjust **0I**
- Viton, Internal Adjust **VI**
- Buna, Tamper Proof **0T**
- Viton, Tamper Proof **VT**

**BODIES**

- Blank Without Body
- N** 1/4" NPTF Ports
- S** #6 SAE Ports

**PRESSURE RANGE/SETTING**

Ext./Int. Adjustment

- 1000** 100 - 1000 PSI
- 3500** 500 - 3500 PSI

**Tamper Proof**

Fill in 4 Digit Pressure Setting  
Example: 0500 - 500 PSI

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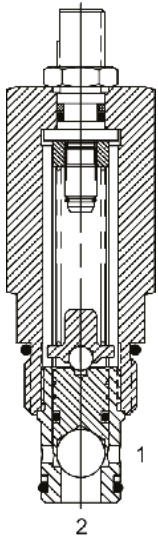


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**DE-RWA DIRECT ACTING RELIEF VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, direct acting relief valve.

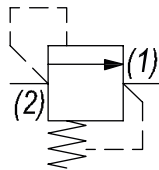
**OPERATION**

The DE-RWA blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the poppet to open and allow metered flow from (2) to (1). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

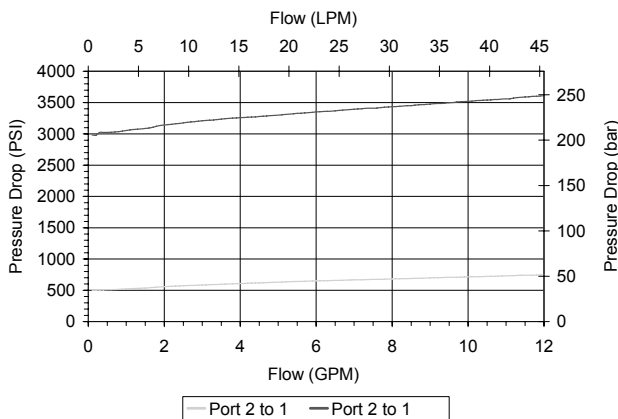
**HYDRAULIC SYMBOL**



*For critical leakage applications consult factory.*

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	8 GPM (30 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.51 lbs (.23 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

**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.

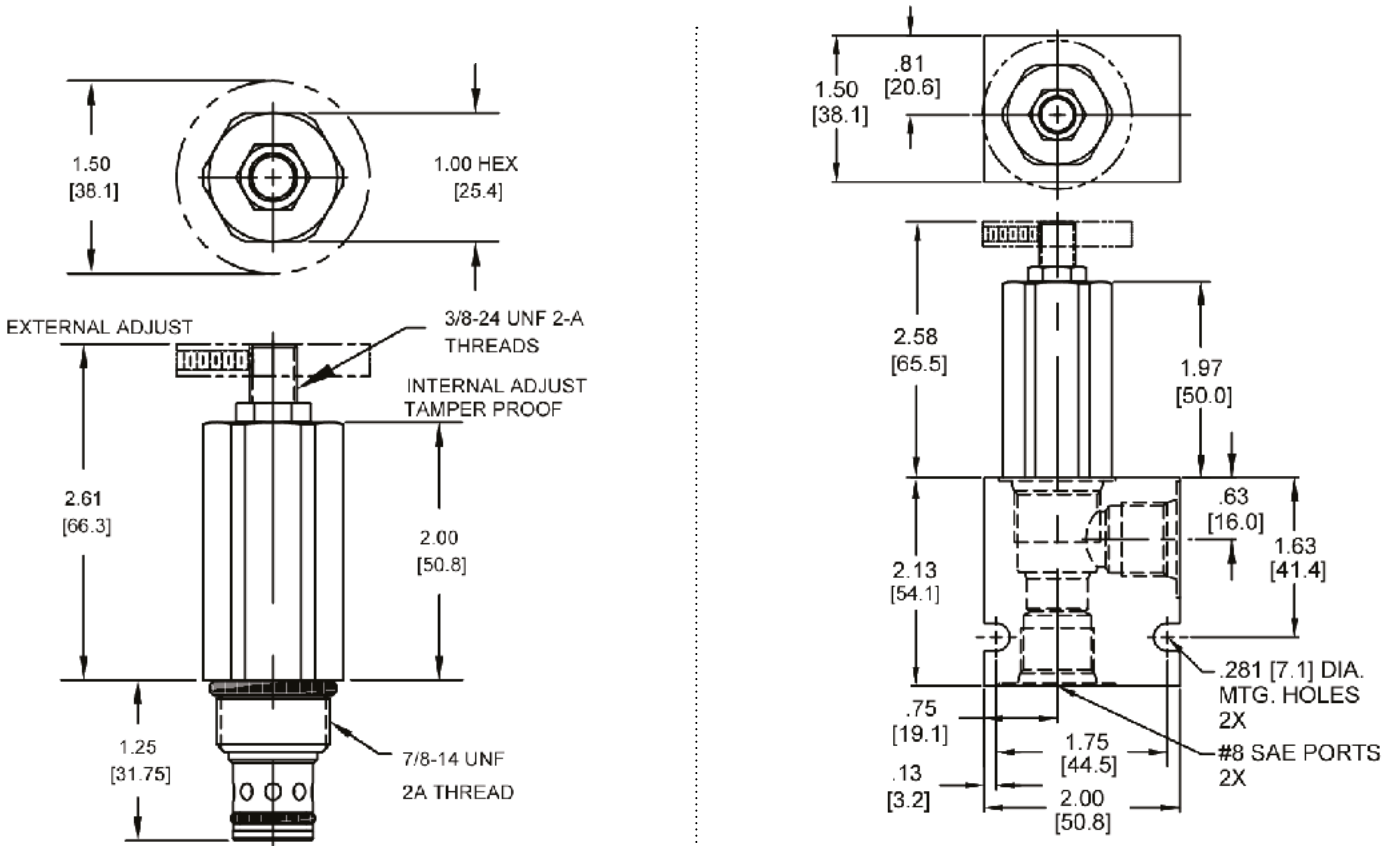


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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**

DE-RWA - - - -

**OPTIONS**

- Buna, External Adj. W/Locknut **00**
- Viton, External Adj. W/Locknut **V0**
- Buna, Knob **0K**
- Viton, Knob **VK**
- Buna, Internal Adjust **0I**
- Viton, Internal Adjust **VI**
- Buna, Tamper Proof **0T**
- Viton, Tamper Proof **VT**

**BODIES**

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

**PRESSURE RANGE/SETTING**

**Ext./Int. Adjustment**

- 0500** 100 - 500 PSI
- 3000** 100 - 3000 PSI
- 4000** 3000 - 4000 PSI

**Tamper Proof**

Fill in 4 Digit Pressure Setting  
Example: 0500 - 500 PSI

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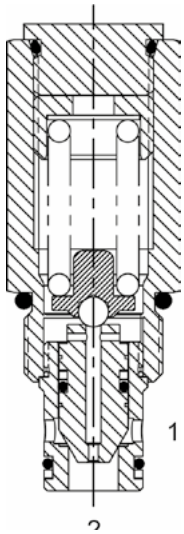


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**DE-RCD DIFFERENTIAL AREA RELIEF VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, differential area relief valve.

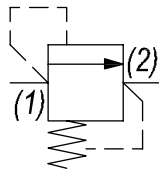
**OPERATION**

The DE-RCD blocks flow from (1) to (2) until sufficient pressure is present at (1) to force the poppet to open and allow metered flow from (1) to (2). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

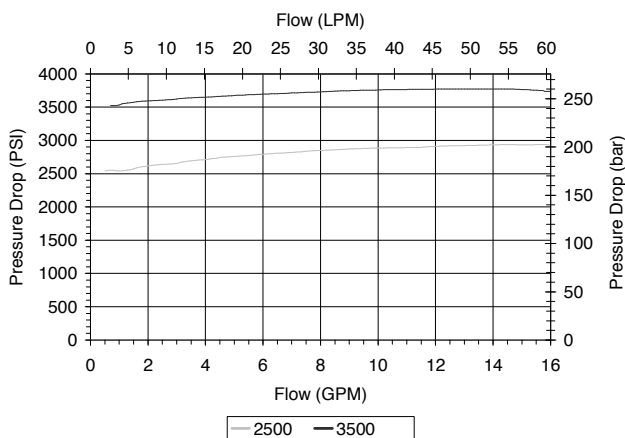
**HYDRAULIC SYMBOL**



*Installation Space Saving Product. Cannot be field adjusted. Not recommended for crossover relief valve applications, use DE-RWD.*

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.37 lbs (.17 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

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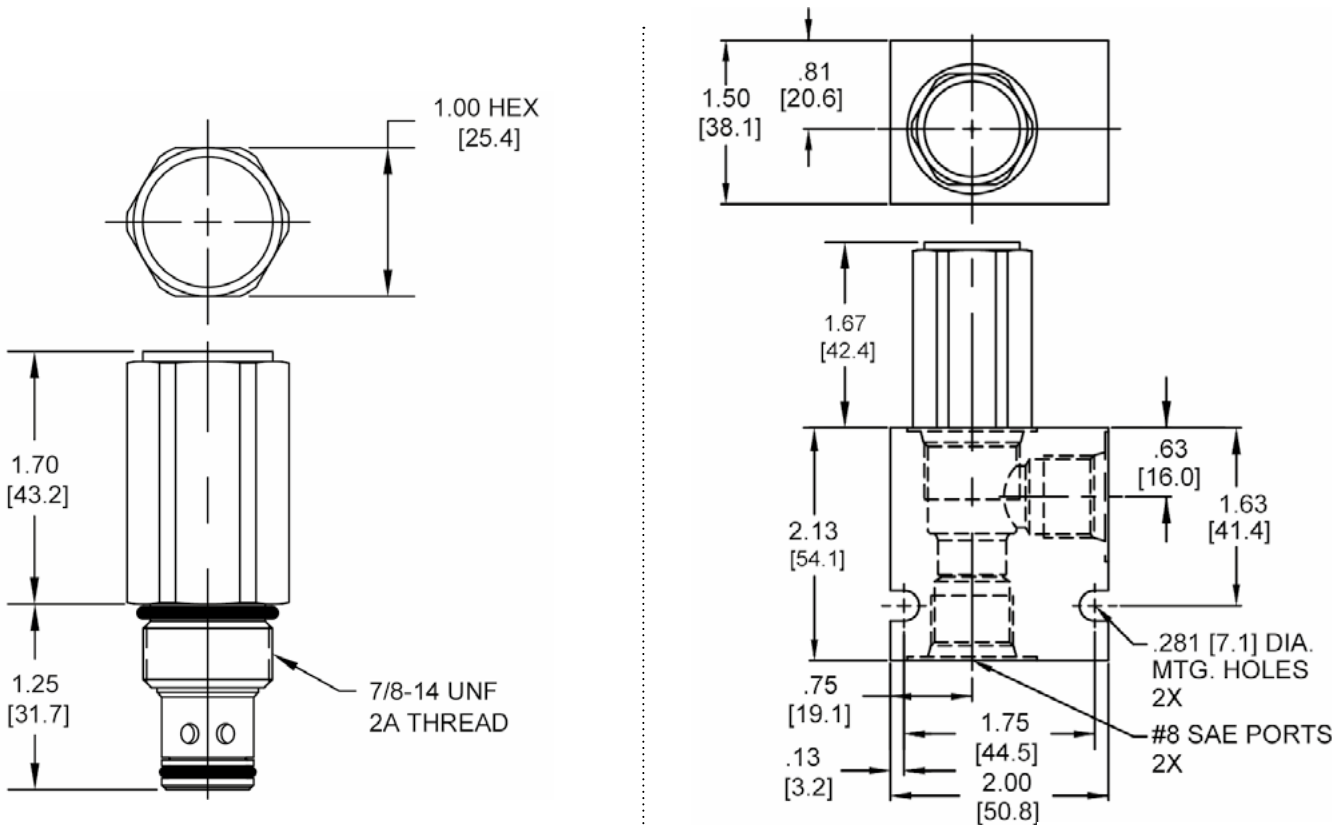
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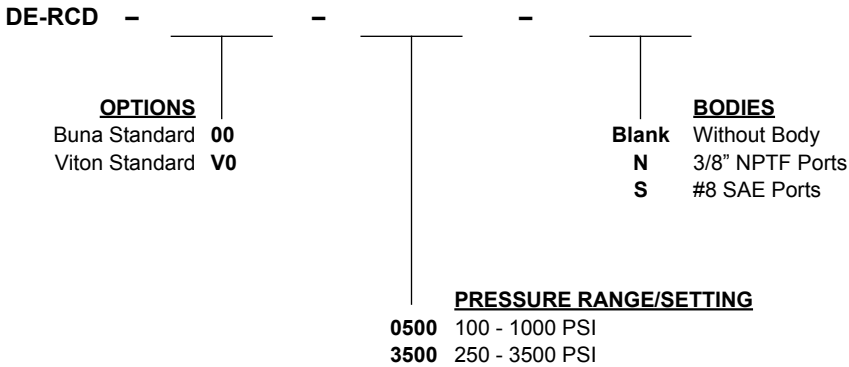


**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**



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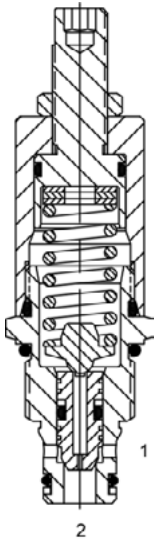


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**PB-RVD DIFFERENTIAL AREA RELIEF VALVE**



**DESCRIPTION**

8 size, 3/4-16 thread, "Power" series, differential area relief valve.

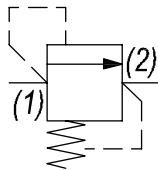
**OPERATION**

The PB-RVD blocks flow from (1) to (2) until sufficient pressure is present at (1) to force the poppet to open and allow metered flow from (1) to (2). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

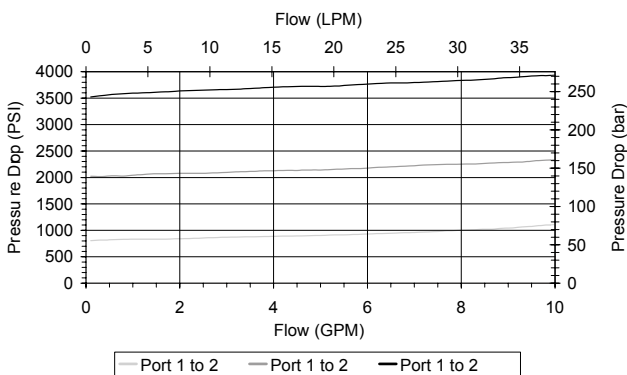
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	8 GPM (30 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.31 lbs (.14 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	25 ft-lbs (34 Nm)
Cavity	POWER 2W
Cavity Form Tool (Finishing)	40500005
Seal Kit	21191100

**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.

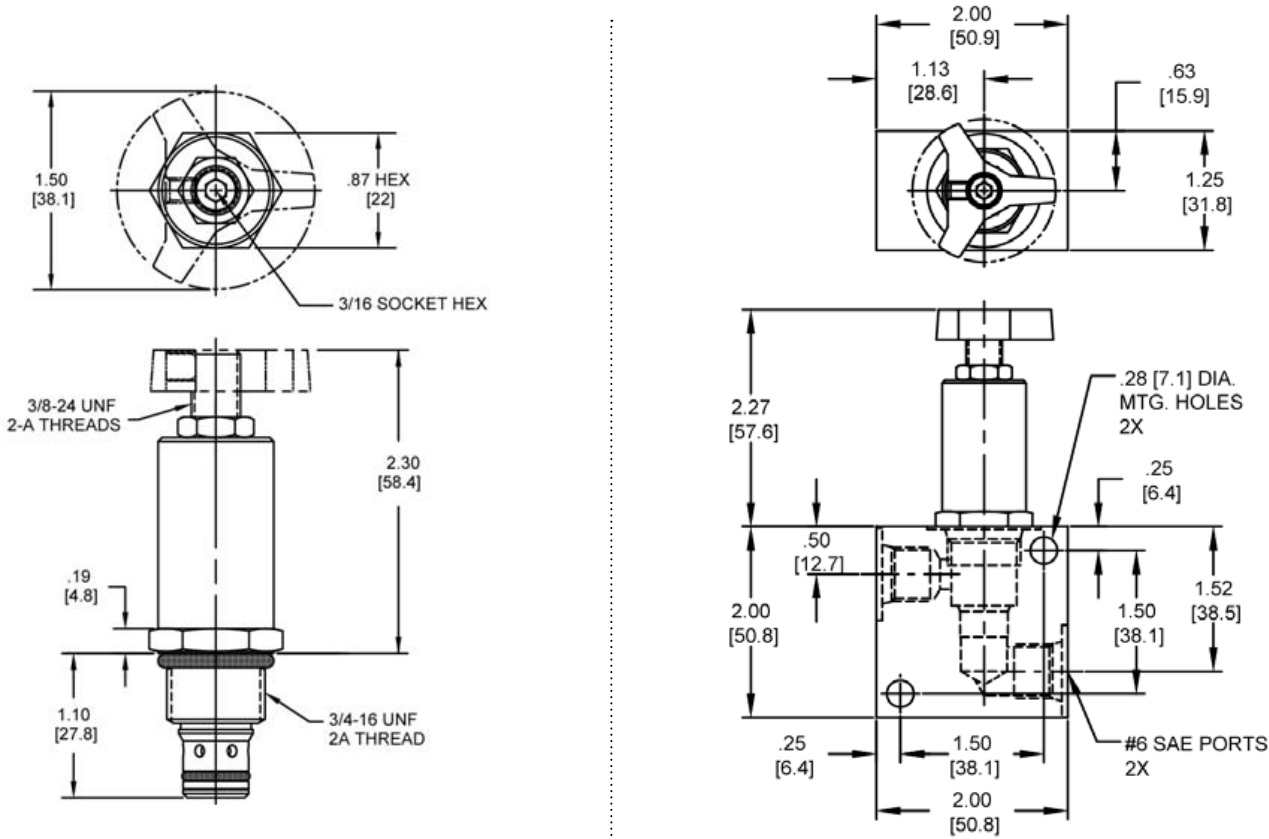


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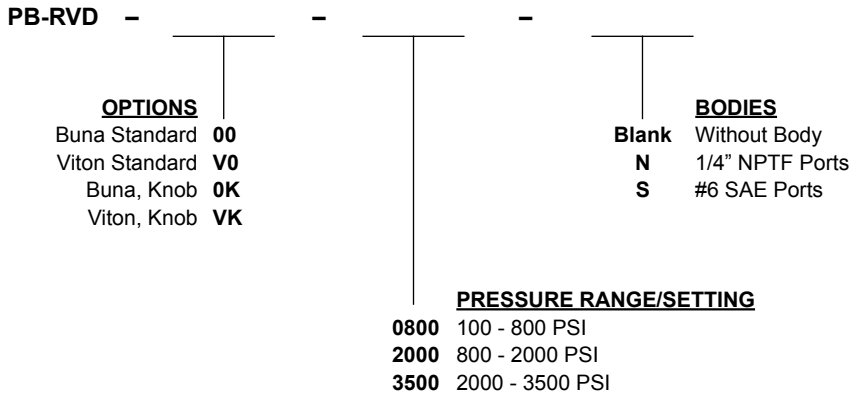
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**DIMENSIONS**



Body Weight: .39 lbs (.18 kg)

**ORDERING INFORMATION**



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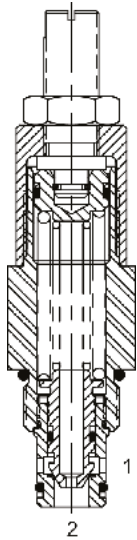


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**DE-RVD DIFFERENTIAL AREA RELIEF VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, differential area relief valve.

**OPERATION**

The DE-RVD blocks flow from (1) to (2) until sufficient pressure is present at (1) to force the poppet to open and allow metered flow from (1) to (2). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

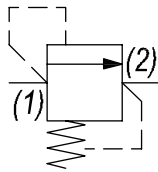
**FEATURES**

- Hardened parts for long life.
- Industry common cavity.



*Low PSI/turn adjustment.  
Good pressure vs. flow characteristic.*

**HYDRAULIC SYMBOL**

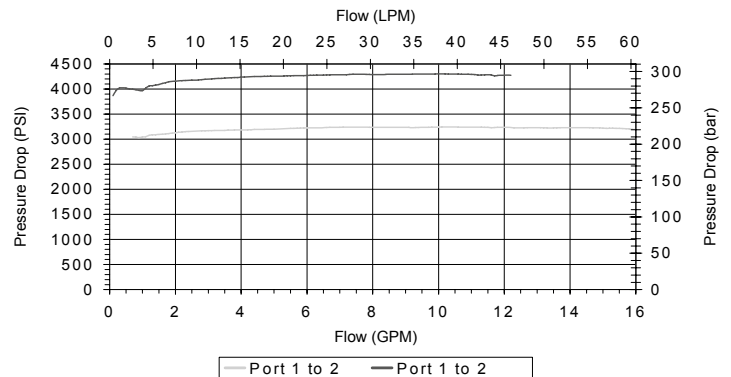
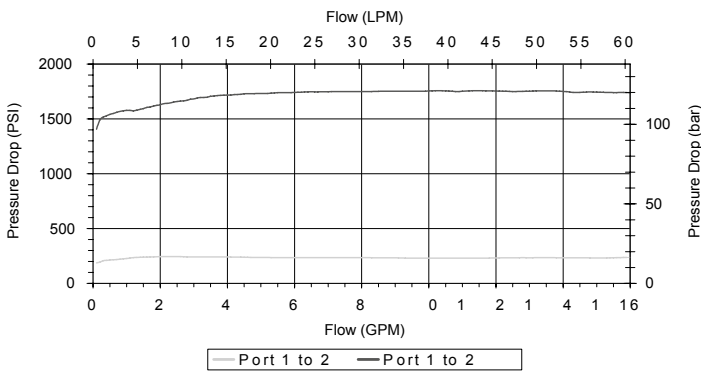


**PERFORMANCE**

Actual Test Data (Cartridge Only)

**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.57 lbs (.26 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200



**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.

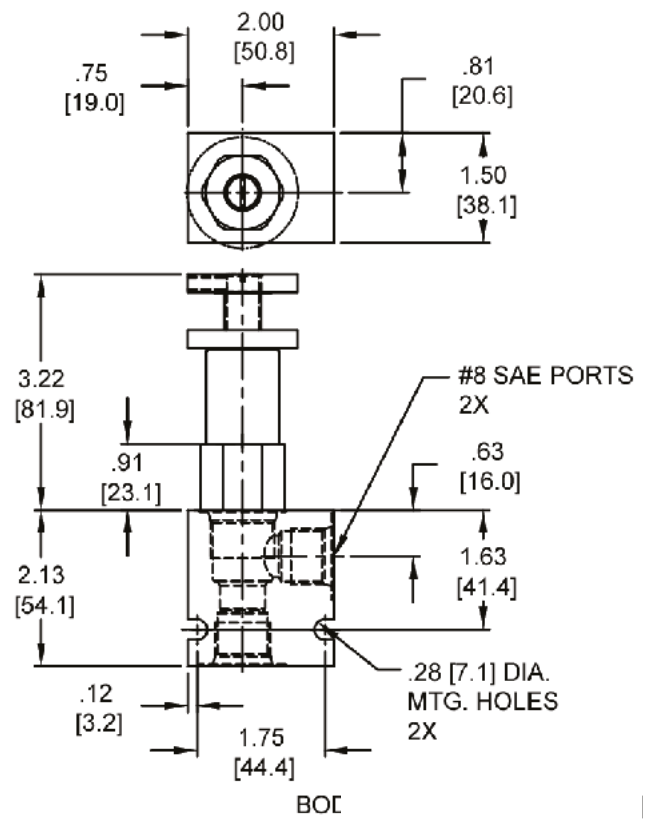
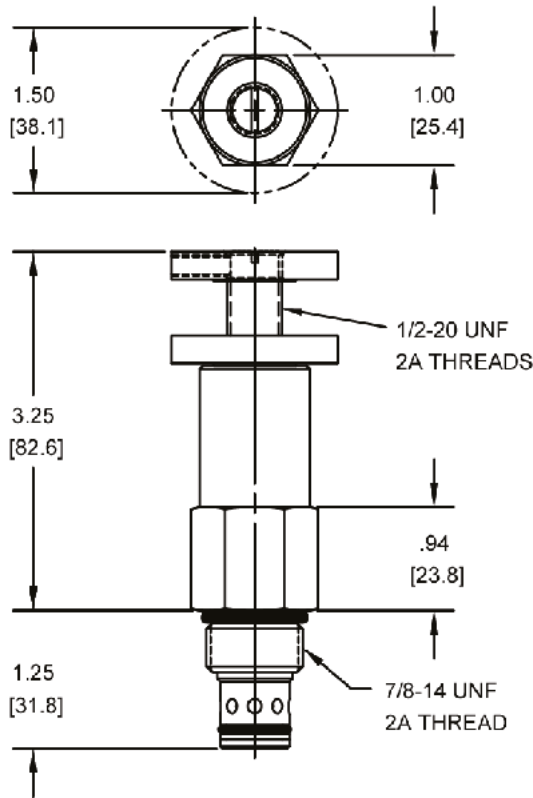


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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**

<p><b>DE-RVD</b> -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Screen <b>A0</b></p> <p>Viton, Screen <b>W0</b></p> <p>Buna, Knob <b>OK</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Knob, Screen <b>AK</b></p> <p>Viton, Knob, Screen <b>WK</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 3/8" NPTF Ports</p> <p><b>S</b> #8 SAE Ports</p>	<p><b>PRESSURE RANGE/SETTING</b></p> <p><b>0200</b> 50 - 200 PSI</p> <p><b>1500</b> 200 - 1500 PSI</p> <p><b>3000</b> 1500 - 3000 PSI</p> <p><b>4000</b> 2500 - 4000 PSI</p>
--	---	--

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

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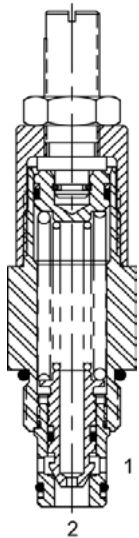


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**HE-RVD DIFFERENTIAL AREA RELIEF VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, differential area relief valve.

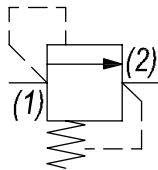
**OPERATION**

The HE-RVD blocks flow from (1) to (2) until sufficient pressure is present at (1) to force the poppet to open and allow metered flow from (1) to (2). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

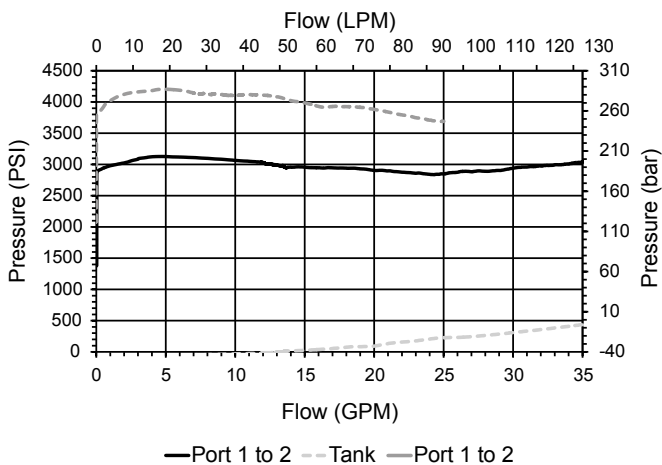
**HYDRAULIC SYMBOL**



*Good pressure vs. flow characteristic. Recommended Return Line Pressure as shown on Performance Data Graph. Undercut Cavity Recommended for Max flows (Consult Factory for Details).*

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	40 GPM (151 LPM)
Rated Operating Pressure	5000 PSI (345 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.57 lbs (.26 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

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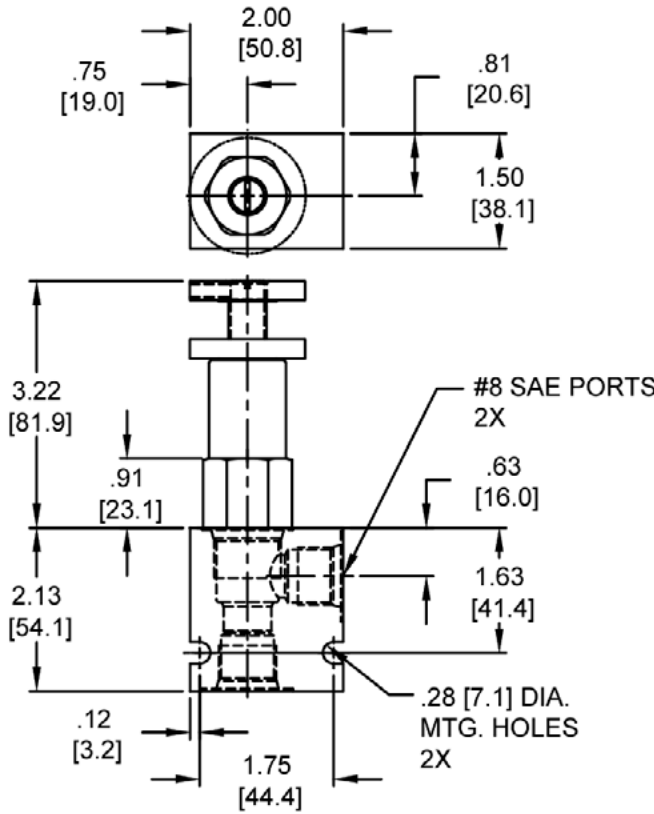
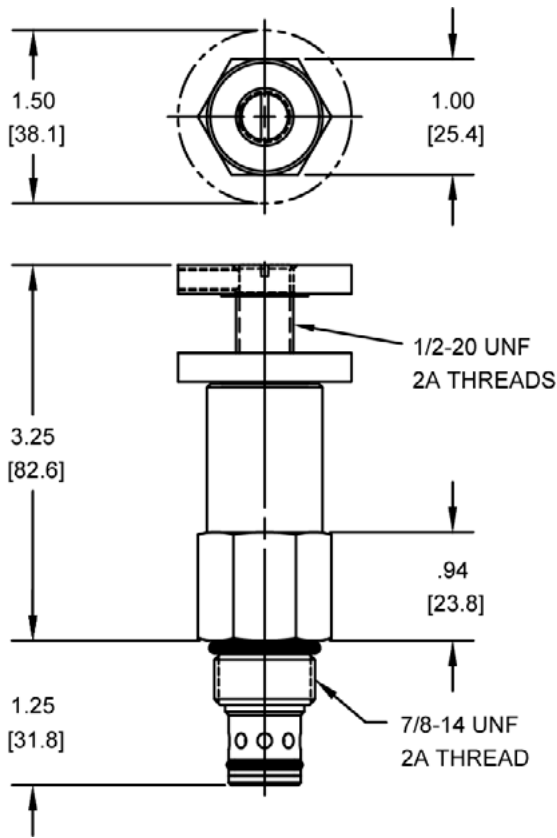


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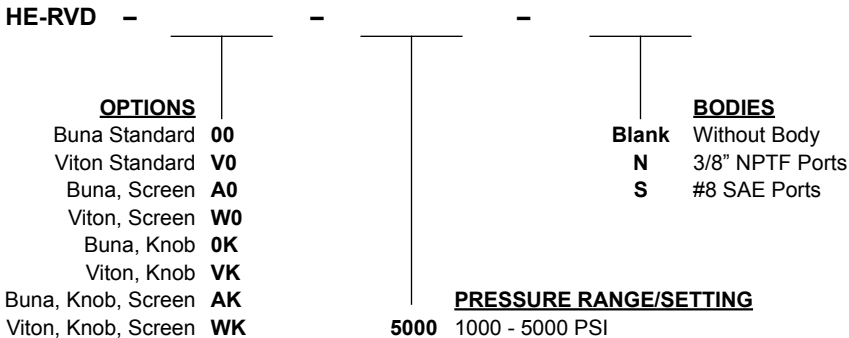
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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**



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

**Note: aluminum NOT durability rated for 4000 PSI. Consult factory for options.**

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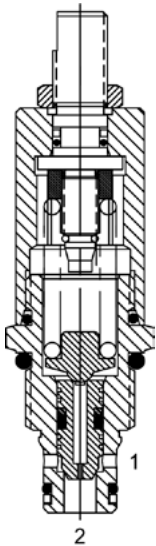


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**PB-RWD DIFFERENTIAL AREA RELIEF VALVE**



**DESCRIPTION**

8 size, 3/4-16 thread, "Power" series, differential area relief valve.

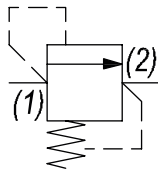
**OPERATION**

The PB-RWD blocks flow from (1) to (2) until sufficient pressure is present at (1) to force the poppet to open and allow metered flow from (1) to (2). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

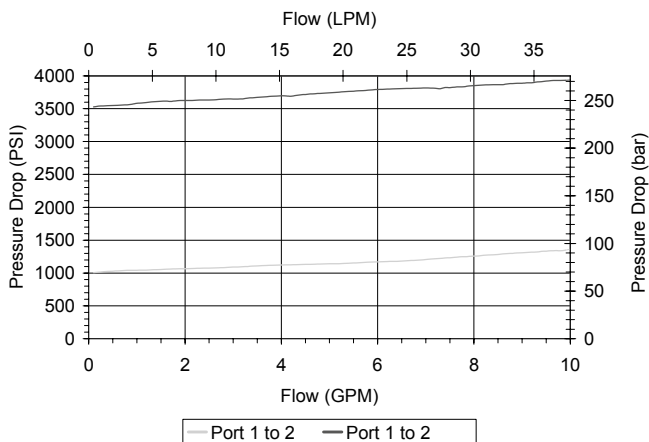
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	8 GPM (30 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.32 lbs (.15 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	25 ft-lbs (34 Nm)
Cavity	POWER 2W
Cavity Form Tool (Finishing)	40500005
Seal Kit	21191100

**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.



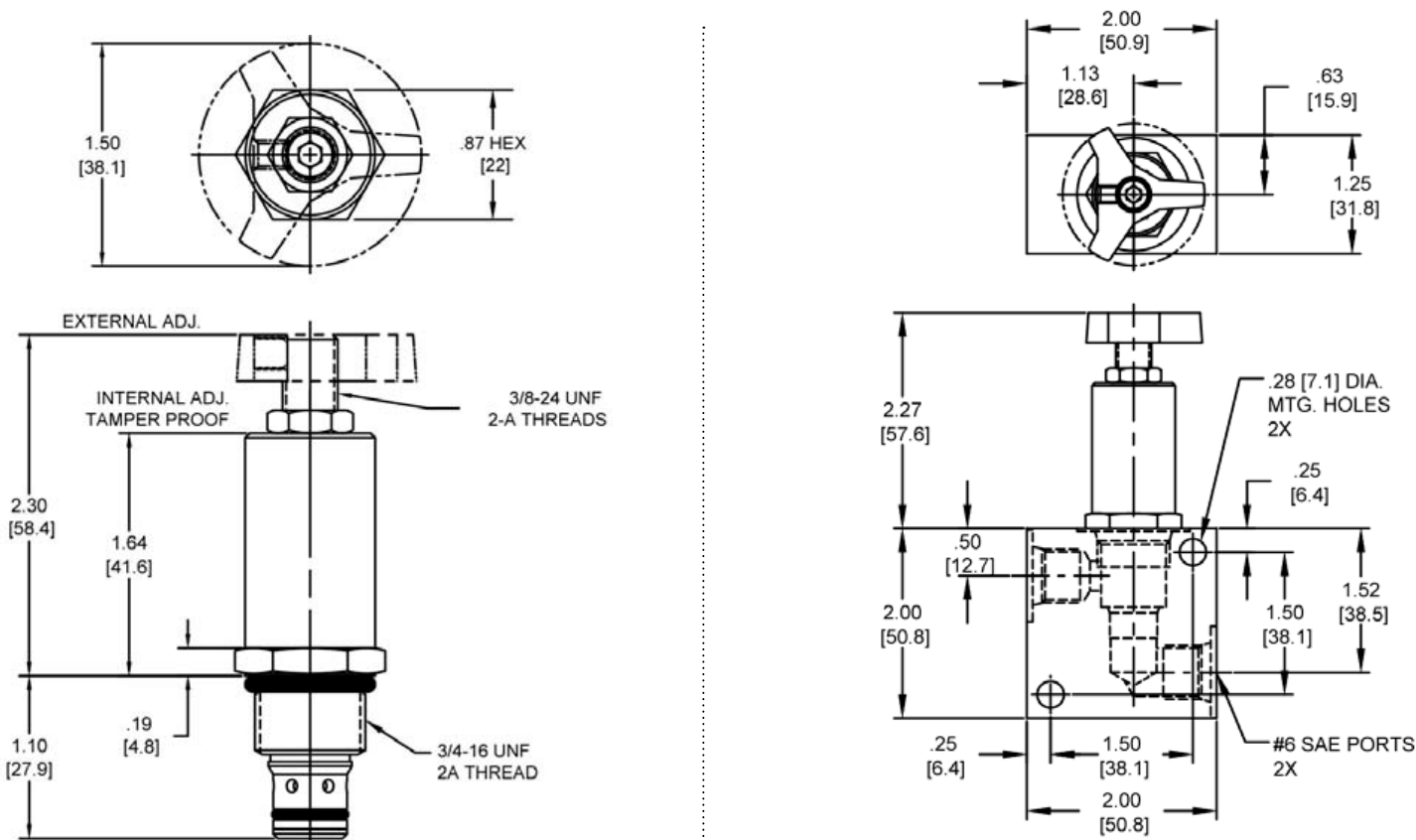
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**DIMENSIONS**



Body Weight: .39 lbs (.18 kg)

**ORDERING INFORMATION**

PB-RWD - - - -

**OPTIONS**

- Buna, External Adj. W/Locknut **00**
- Viton, External Adj. W/Locknut **V0**
- Buna, Knob **0K**
- Viton, Knob **VK**
- Buna, Internal Adjust **0I**
- Viton, Internal Adjust **VI**
- Buna, Tamper Proof **0T**
- Viton, Tamper Proof **VT**

**BODIES**

- Blank Without Body
- N** 1/4" NPTF Ports
- S** #6 SAE Ports

**PRESSURE RANGE/SETTING**

Ext./Int. Adjustable

- 1000** 100 - 1000 PSI
- 3500** 500 - 3500 PSI

**Tamper Proof**

Fill in 4 Digit Pressure Setting  
Example: 0500 - 500 PSI

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**DE-RWD DIFFERENTIAL AREA RELIEF VALVE**

**DESCRIPTION**

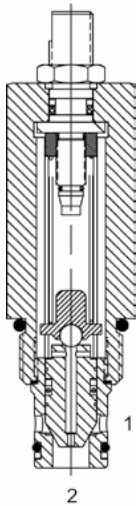
10 size, 7/8-14 thread, "Delta" series, differential area relief valve.

**OPERATION**

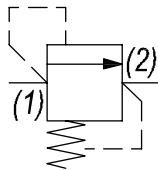
The DE-RWD blocks flow from (1) to (2) until sufficient pressure is present at (1) to force the poppet to open and allow metered flow from (1) to (2).

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

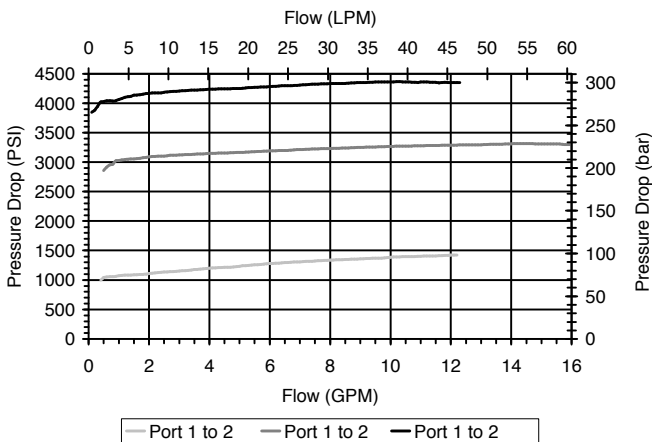


**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.55 lbs (.25 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

**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.

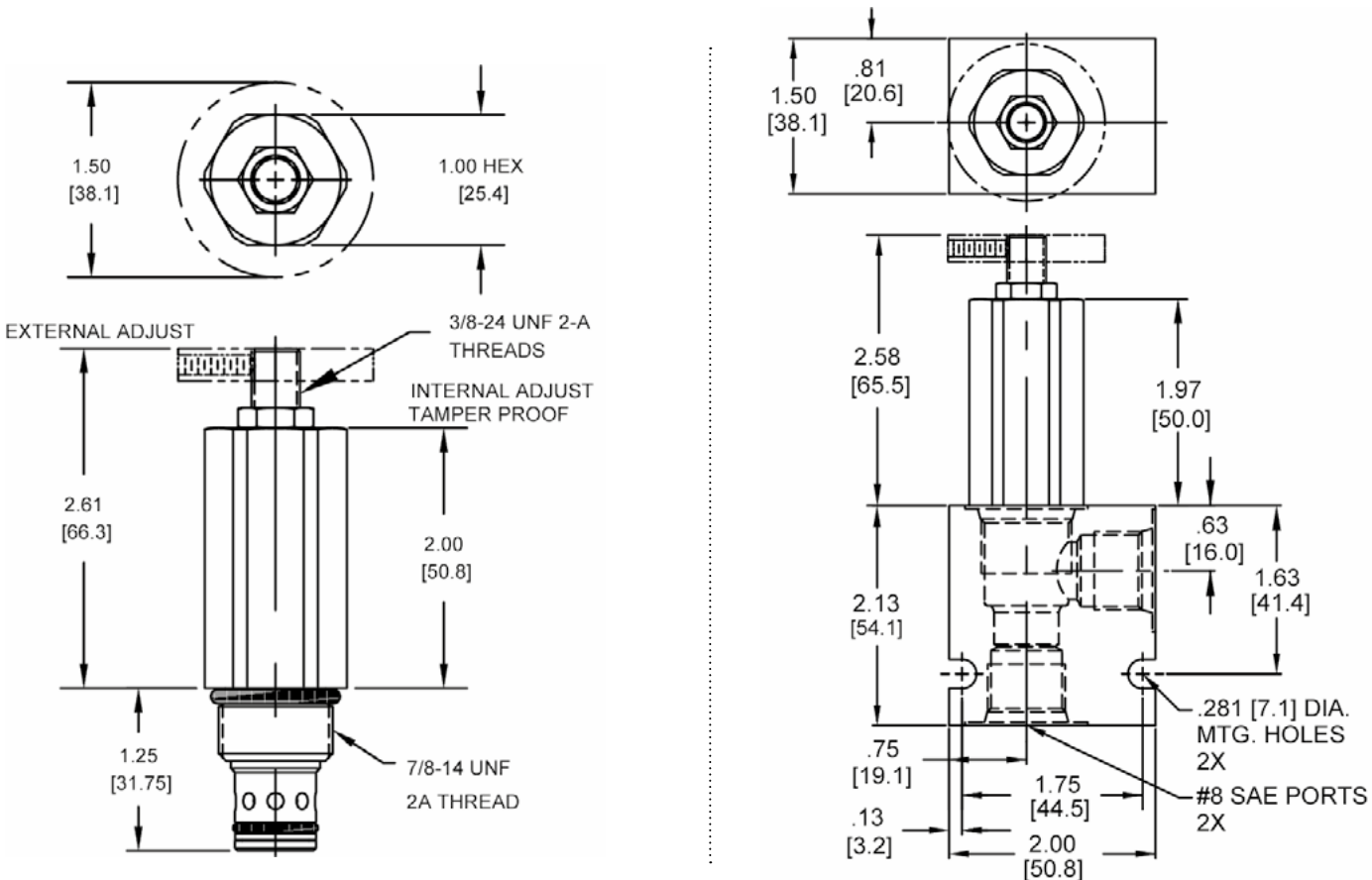


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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**

DE-RWD - - -

**OPTIONS**

- Buna, External Adj. W/Locknut **00**
- Viton, External Adj. W/Locknut **V0**
- Buna, Knob **0K**
- Viton, Knob **VK**
- Buna, Internal Adjust **0I**
- Viton, Internal Adjust **VI**
- Buna, Tamper Proof **0T**
- Viton, Tamper Proof **VT**

**BODIES**

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

**PRESSURE RANGE/SETTING**

Ext./Int. Adjustable

- 0500** 100 - 1000 PSI
- 3000** 100 - 3000 PSI
- 4000** 3000 - 4000 PSI

**Tamper Proof**

Fill in 4 Digit Pressure Setting  
Example: 0500 - 500 PSI

**Note: aluminum NOT durability rated for 4000 PSI. Consult factory for options.**

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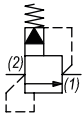
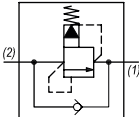
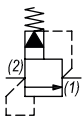
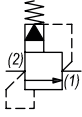
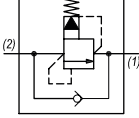


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**PILOT OPERATED RELIEF VALVES**

	GPM	PSI	LPM	BAR	CAVITY	MODEL	PAGE
	20	4000	76	276	7/8-14	<b>DE-RVP</b>	MP30
	20	5000	76	345	1 1/16-12	<b>HT-RVP</b>	MP32
	15	4000	57	276	7/8-14	<b>DE-RVR</b>	MP34
	40	3500	151	241	1 5/16-12	<b>SJ-RVR</b>	MP36
	15	4000	57	276	7/8-14	<b>DE-RWP</b>	MP38
	40	5000	151	345	7/8-14	<b>HE-RWP</b>	MP40
	15	4000	57	276	7/8-14	<b>DE-RWR</b>	MP42

**TYPICAL SCHEMATIC**

Typical application for the RVP and RWP is to protect pump or system. Typical application for the RWR and RVR, is to be used as counterbalance in a system where positive hydraulic locking is not required. In this schematic positive locking is done by using a P. O. check valve.

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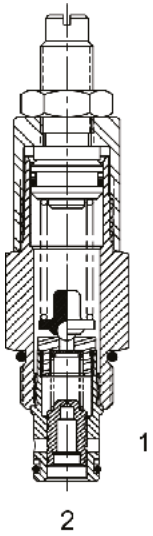


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**DE-RVP PILOT OPERATED RELIEF VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pilot operated relief valve.

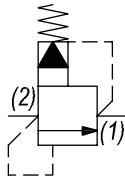
**OPERATION**

The DE-RVP blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the pilot stage open, allowing the main stage to shift, opening (2) to (1). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

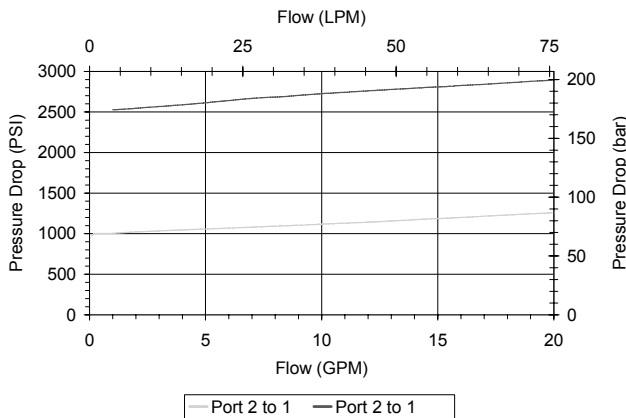
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	20 GPM (76 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.56 lbs (.25 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

**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.

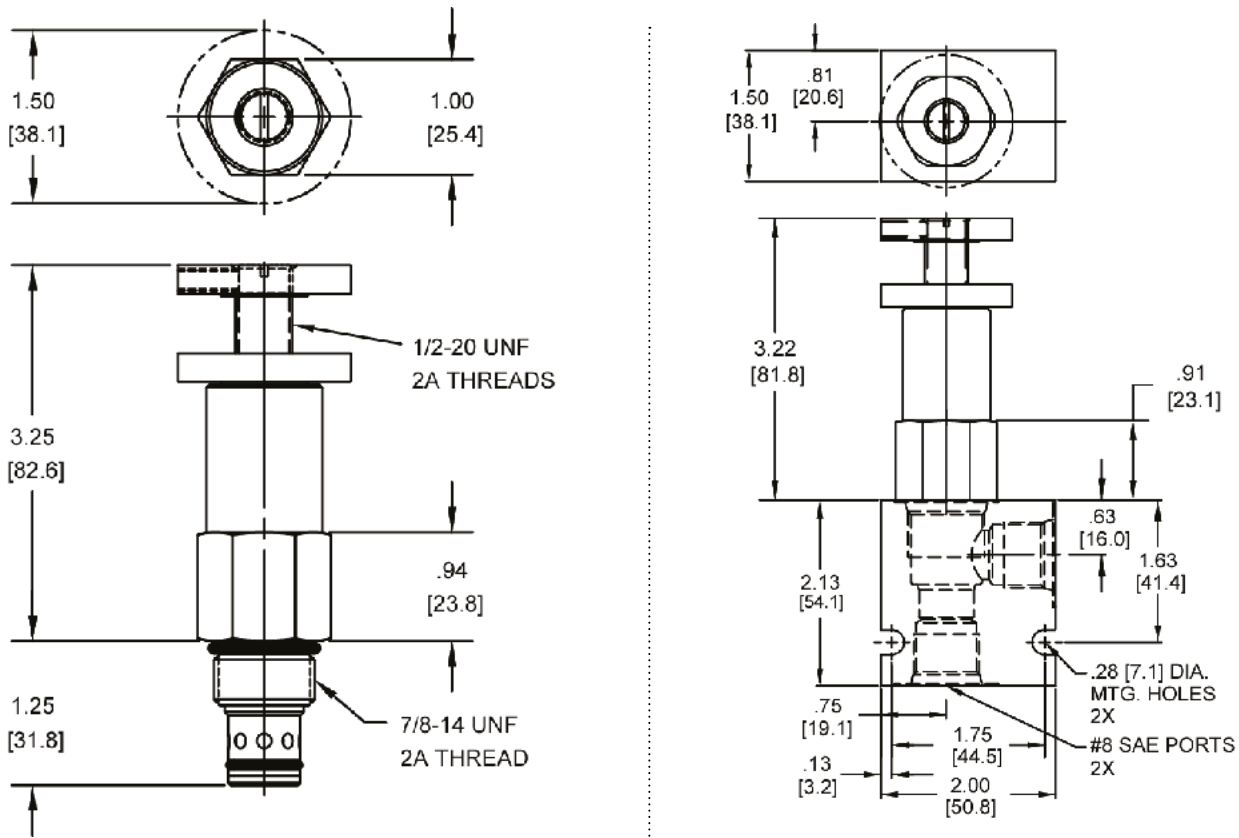


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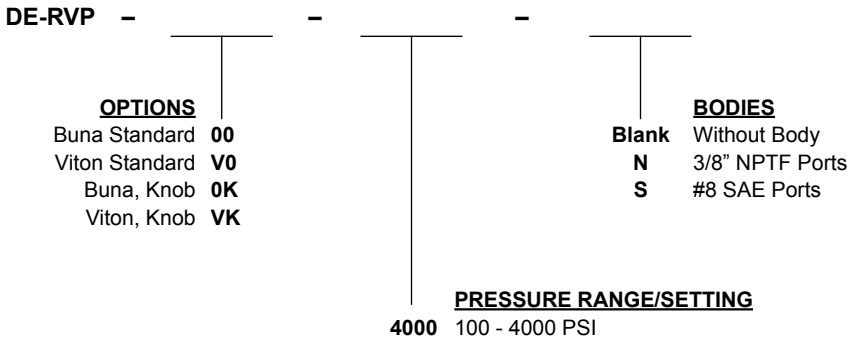
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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**



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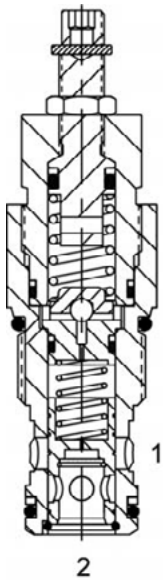


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**HT-RVP PILOT OPERATED RELIEF VALVE**



**DESCRIPTION**

12 size, 1 1/16-12 thread, "Tecnord" series, pilot operated relief valve.

**OPERATION**

The HT-RVP blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the pilot stage off its seat, allowing the main stage spool to shift, opening (2) to (1). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

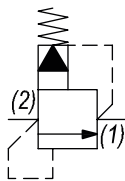
**FEATURES**

- Hardened parts for long life.
- Industry common cavity.



*Undercut cavity recommended for circuits above 2500 PSI where flows go to 30 GPM.*

**HYDRAULIC SYMBOL**

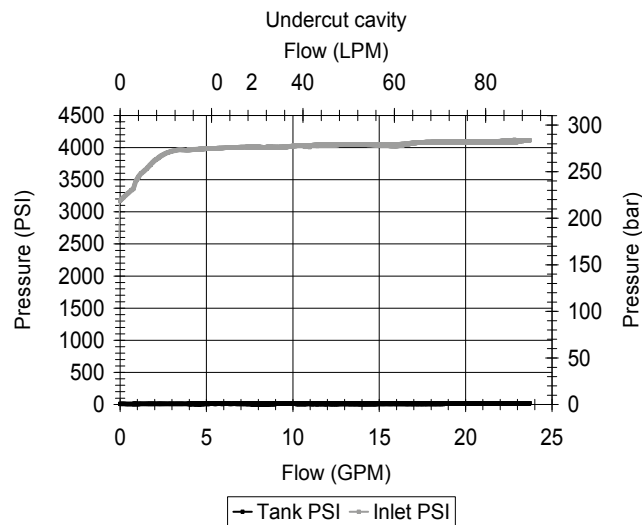
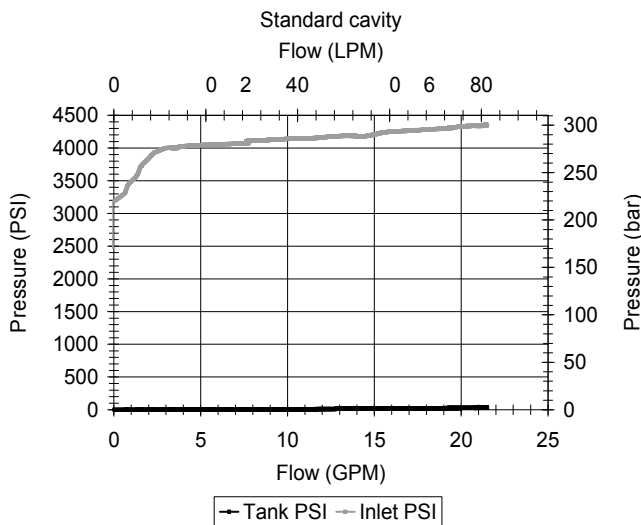


**PERFORMANCE**

Actual Test Data (Cartridge Only)

**VALVE SPECIFICATIONS**

Nominal Flow	20 GPM (76 LPM)
Rated Operating Pressure	5000 PSI (345 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	1.13 lbs (.51 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	70 ft-lbs (95 Nm)
Cavity	TECNORD 2W
Cavity Form Tool (Finishing)	40500032
Seal Kit	21191300



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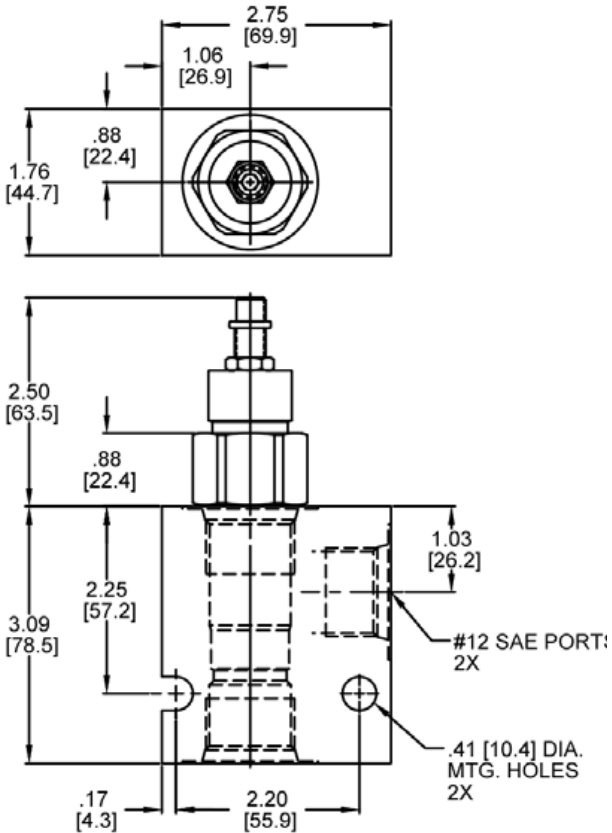
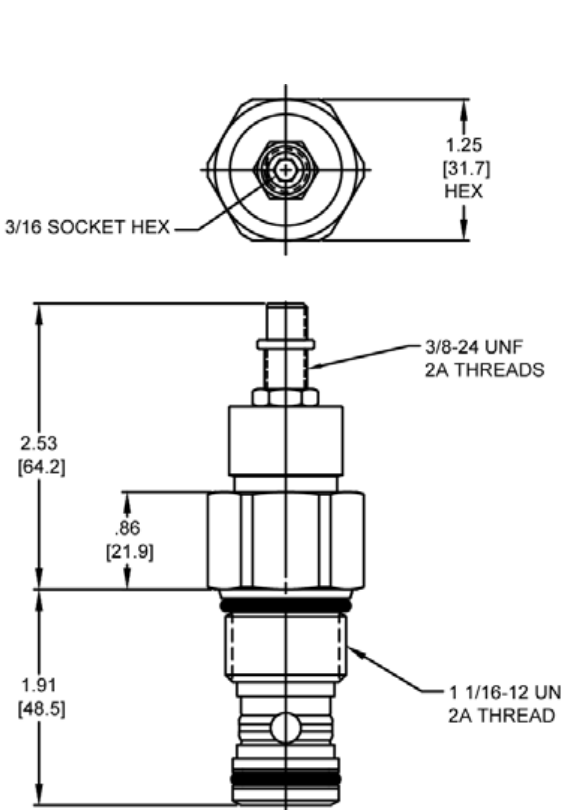
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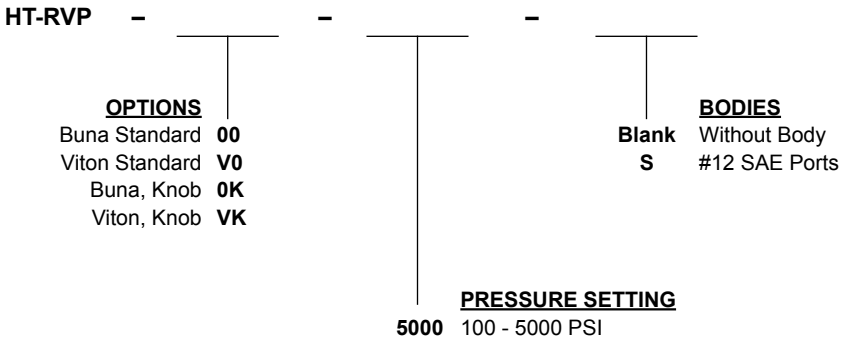


DIMENSIONS



Body Weight: 3.71 lbs (1.68 kg)

ORDERING INFORMATION



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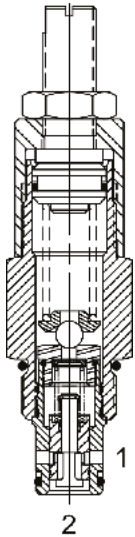


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**DE-RVR PILOT OPERATED RELIEF VALVE, WITH REVERSE FLOW**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pilot operated relief valve with reverse flow.

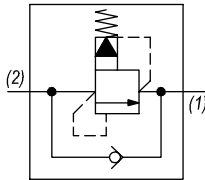
**OPERATION**

The DE-RVR blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the pilot stage open, allowing the main stage to shift, opening (2) to (1). The relief flow path is from (2) to (1). Free reverse flow, from (1) to (2), occurs when the pressure at (1) is at least 10 PSI (.7 bar) higher than at port (2).

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

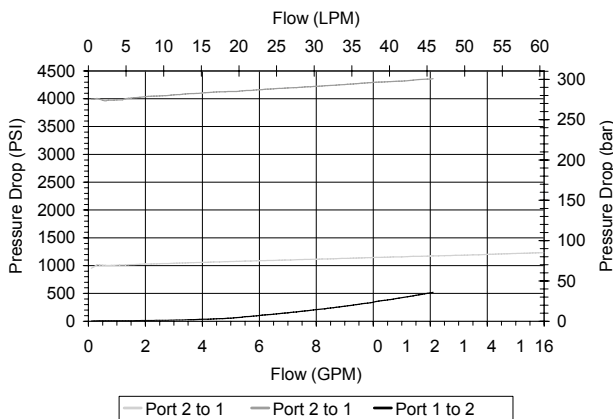
**HYDRAULIC SYMBOL**



Consult Chart for flow capacity port (1) to (2).

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.56 lbs (.25 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

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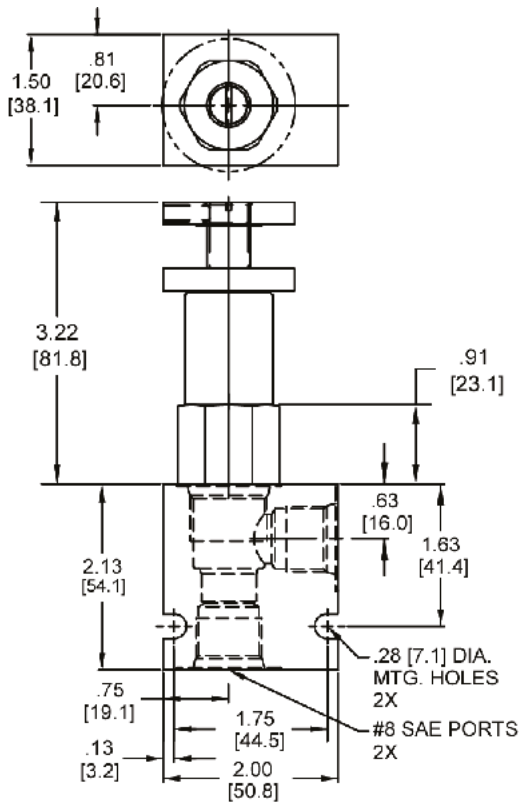
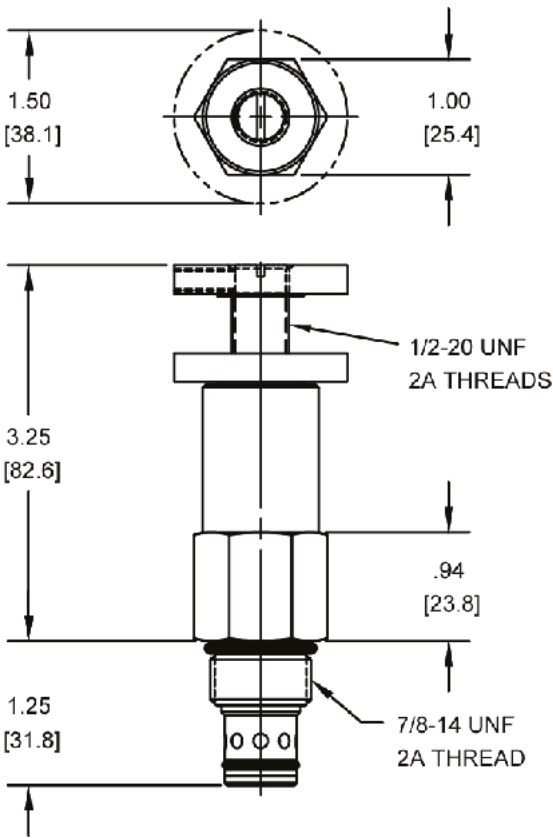


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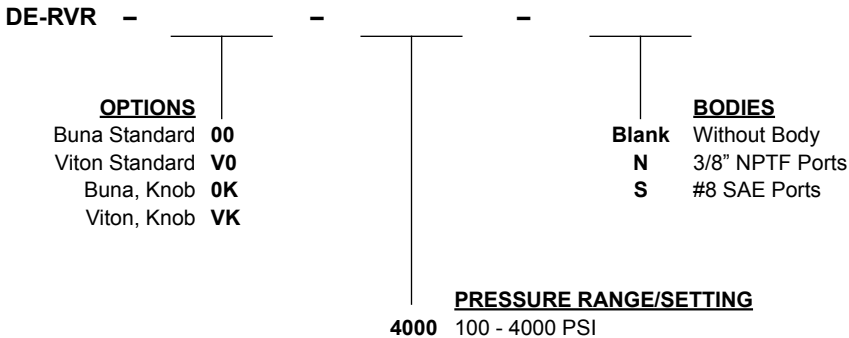
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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**



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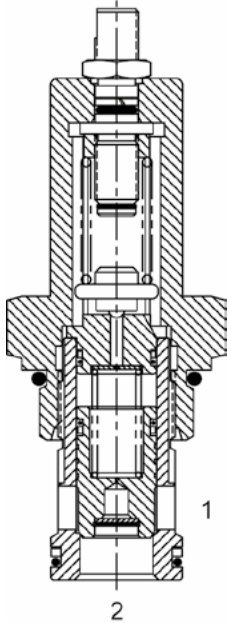


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**SJ-RVR PILOT OPERATED RELIEF VALVE, WITH REVERSE FLOW**



**DESCRIPTION**

16 size, 1 5/16-12 thread, "Super" series, pilot operated relief valve with reverse flow.

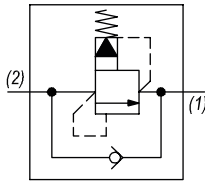
**OPERATION**

The SJ-RVR blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the pilot stage off its seat, allowing the main stage spool to shift, opening (2) to (1). The relief flow path is from (2) to (1). Reverse flow, from (1) to (2), occurs when the pressure at (1) is at least 30 PSI (2.1 bar) higher than at port (2). The Cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**

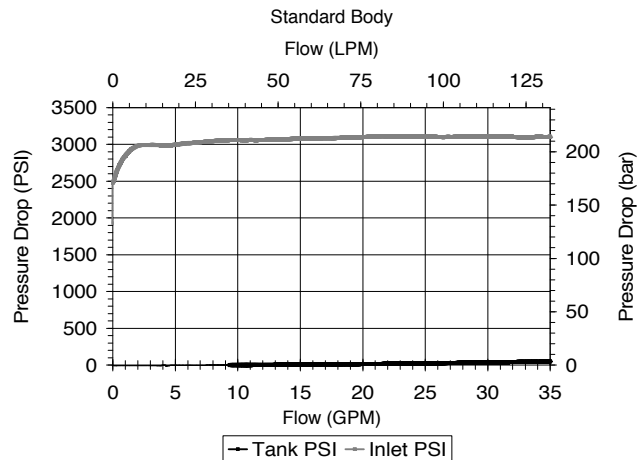
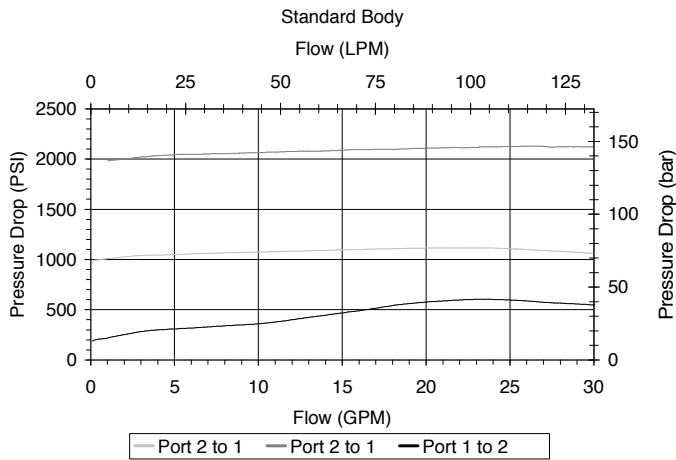


**PERFORMANCE**

Actual Test Data (Cartridge Only)

**VALVE SPECIFICATIONS**

Nominal Flow	40 GPM (151 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	1.13 lbs (.51 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	90 ft-lbs (122 Nm)
Cavity	SUPER 2W
Cartridge Form Tool (Finishing)	40500017
Seal Kit	21191400



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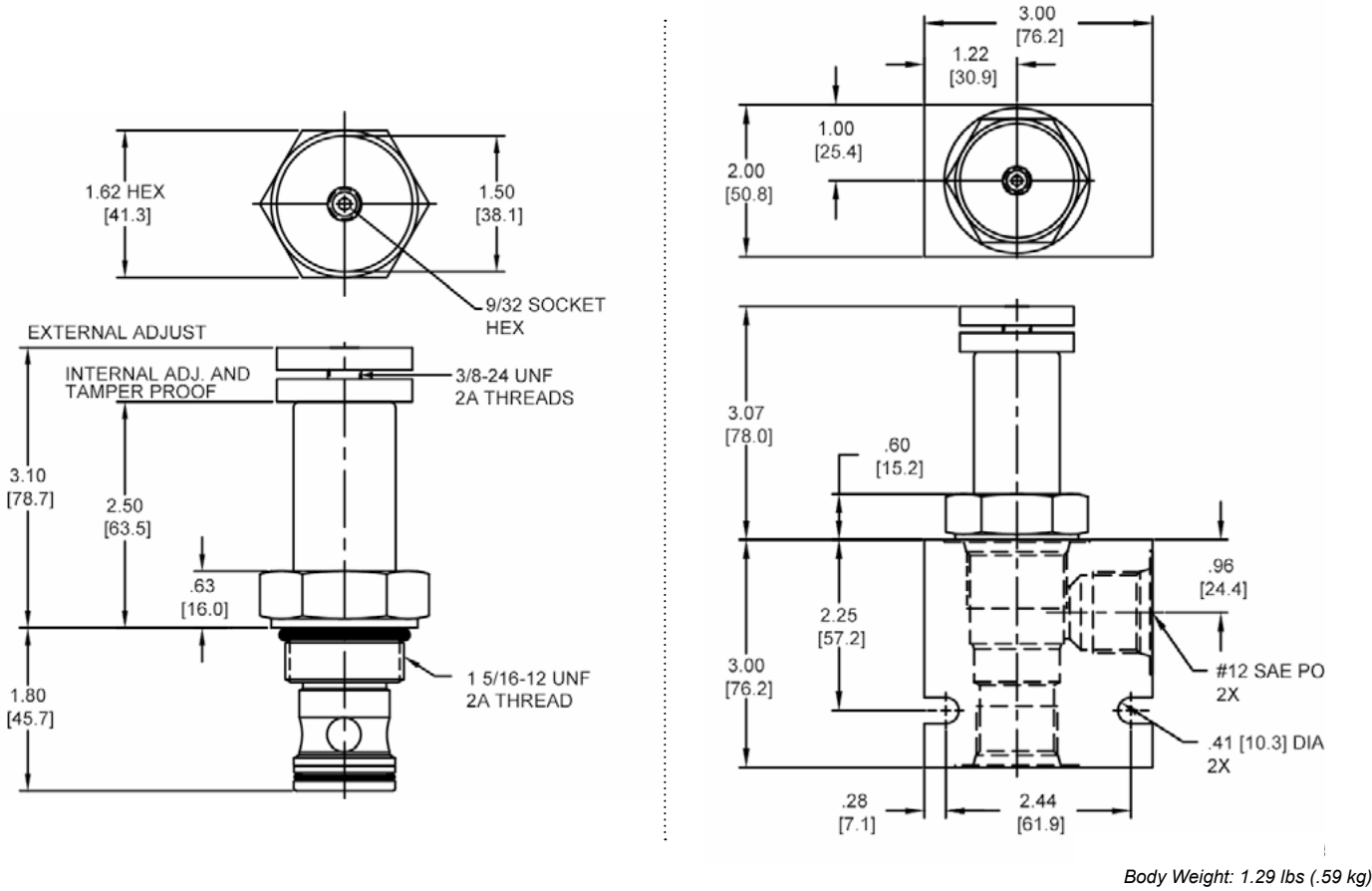


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**DIMENSIONS**



**ORDERING INFORMATION**

<p><b>SJ-RVR</b> - - -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>3500</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 3/4" NPTF Ports</p> <p><b>S</b> #12 SAE Ports</p>
<p><b>PRESSURE SETTING</b></p> <p>500 - 3500 PSI</p>		
<p><b>Tamper Proof</b></p> <p>Fill in 4 Digit Pressure Setting</p> <p>Example: 0500 - 500 PSI</p>		

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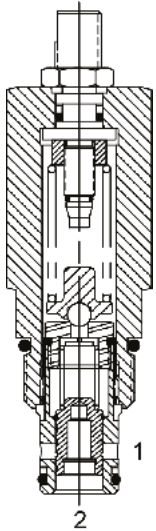


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**DE-RWP PILOT OPERATED RELIEF VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pilot operated relief valve.

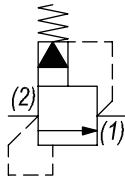
**OPERATION**

The DE-RWP blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the pilot stage open, allowing the main stage to shift, opening (2) to (1).

**FEATURES**

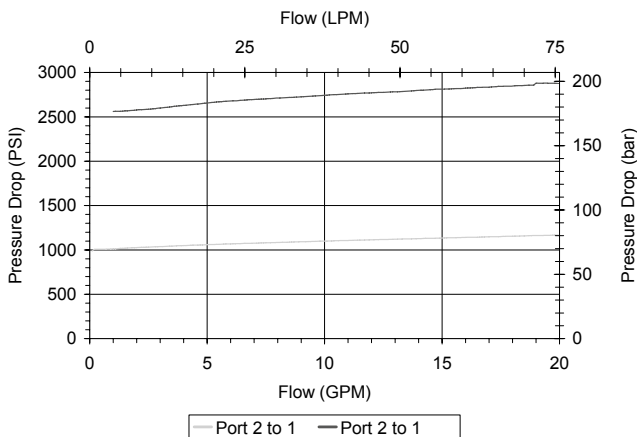
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.53 lbs (.24 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

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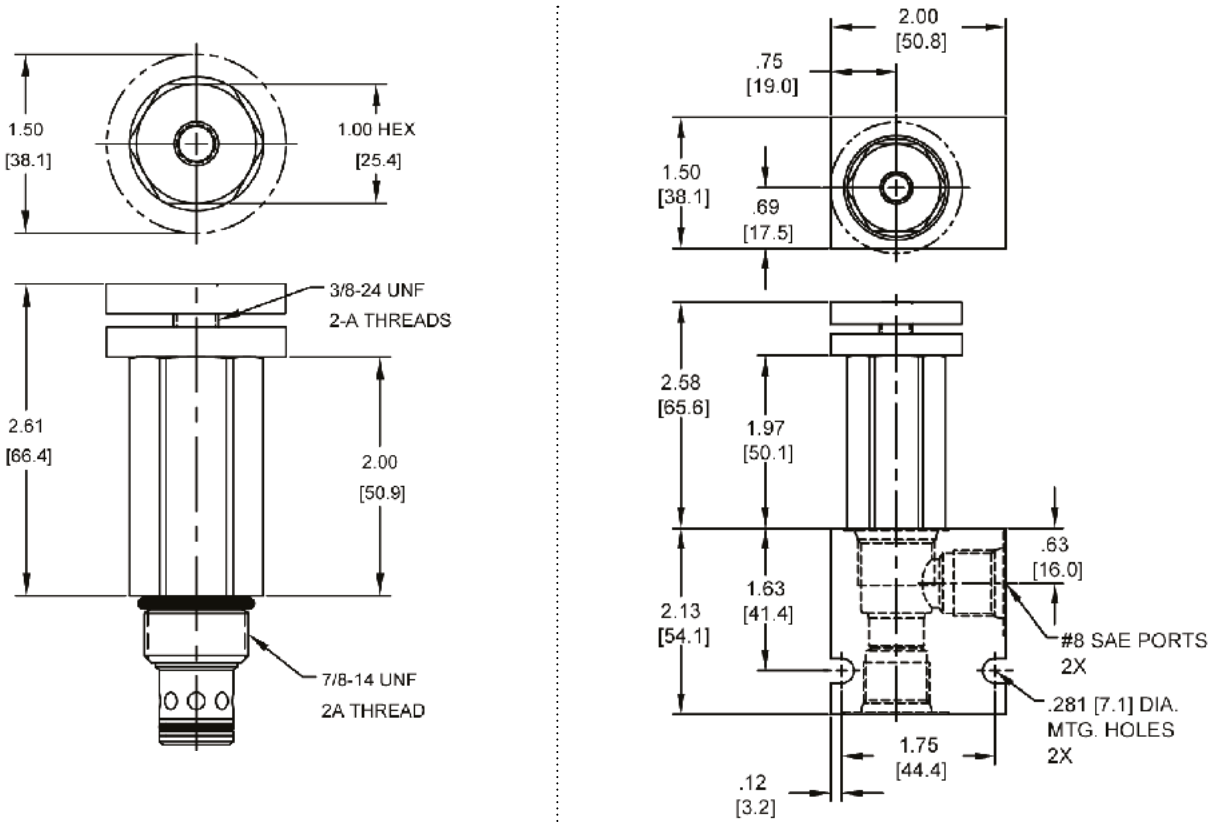


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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**

<p><b>DE-RWP</b> -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>4000</b></p>	<p><b>PRESSURE RANGE/SETTING</b></p> <p>1000 - 4000 PSI</p> <p><b>Tamper Proof</b> Fill in 4 Digit Pressure Setting Example: 0500 - 500 PSI</p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 3/8" NPTF Ports</p> <p><b>S</b> #8 SAE Ports</p>
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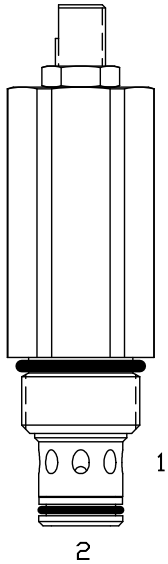
**Delta Power Company**

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mail: delta@delta-power.com • www.delta-power.com

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**HE-RWP RAPID RESPONSE, PILOT OPERATED RELIEF VALVE**



**DESCRIPTION**

High Pressure, High Flow, Rapid Response, 10 size, 7/8-14 thread, "Delta" series, pilot operated relief valve.

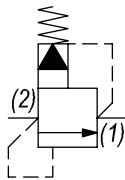
**OPERATION**

The HE-RWP blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the pilot stage open, allowing the main stage to shift, opening (2) to (1).

**FEATURES**

- High pressure valve.
- Hardened parts for long life.
- Industry common cavity.
- Rapid response to sudden pressure application.
- Excellent regulation of pressure with flow (low override).

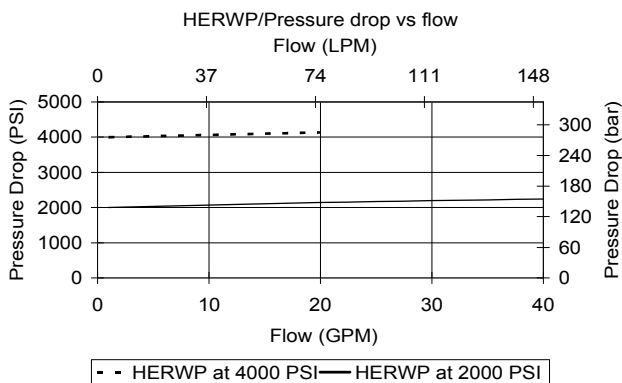
**HYDRAULIC SYMBOL**



*This is a rapid response, high pressure relief valve with excellent high flow regulation. Consult factory for higher flow capacity cavity option.*

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	40 GPM (151 LPM)
Rated Operating Pressure	5000 PSI (345 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.53 lbs (.24 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

**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.



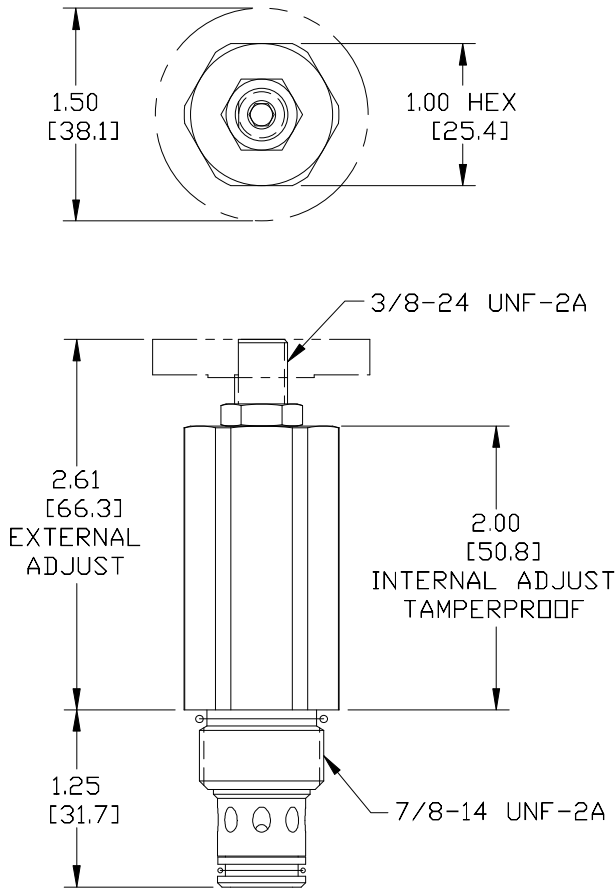
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 mail: delta@delta-power.com • www.delta-power.com



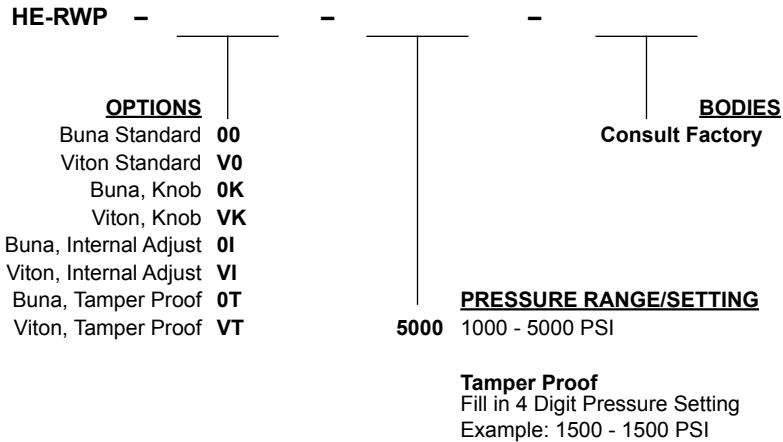
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 mail: tecnord@tecnord.com • www.tecnord.com



**DIMENSIONS**



**ORDERING INFORMATION**



**WARNING**  
DO NOT USE ALUMINUM BODY  
HIGH PRESSURE (5000 PSI) PRODUCT

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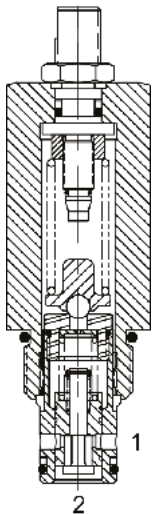


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**DE-RWR PILOT OPERATED RELIEF VALVE, WITH REVERSE FLOW**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pilot operated relief valve with reverse flow.

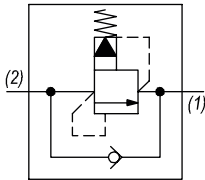
**OPERATION**

The DE-RWR blocks flow from (2) to (1) until sufficient pressure is present at (2) to force the pilot stage open, and allow metered flow from (2) to (1). The relief flow path is from (2) to (1). Free reverse flow, from (1) to (2), occurs when the pressure at (1) is at least 10 PSI (.7 bar) higher than at port (2).

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

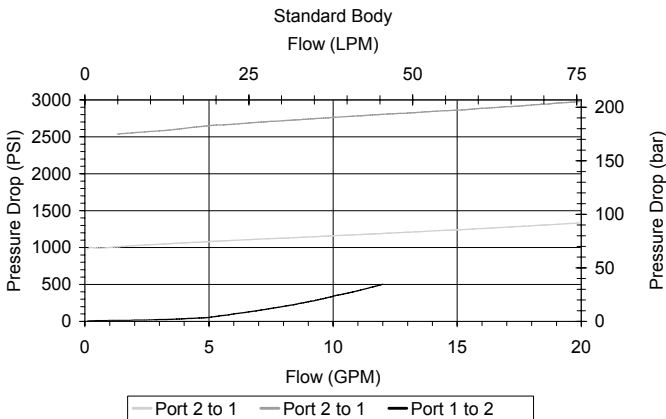
**HYDRAULIC SYMBOL**



Consult chart for flow capacity (1) to (2).

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.53 lbs (.24 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

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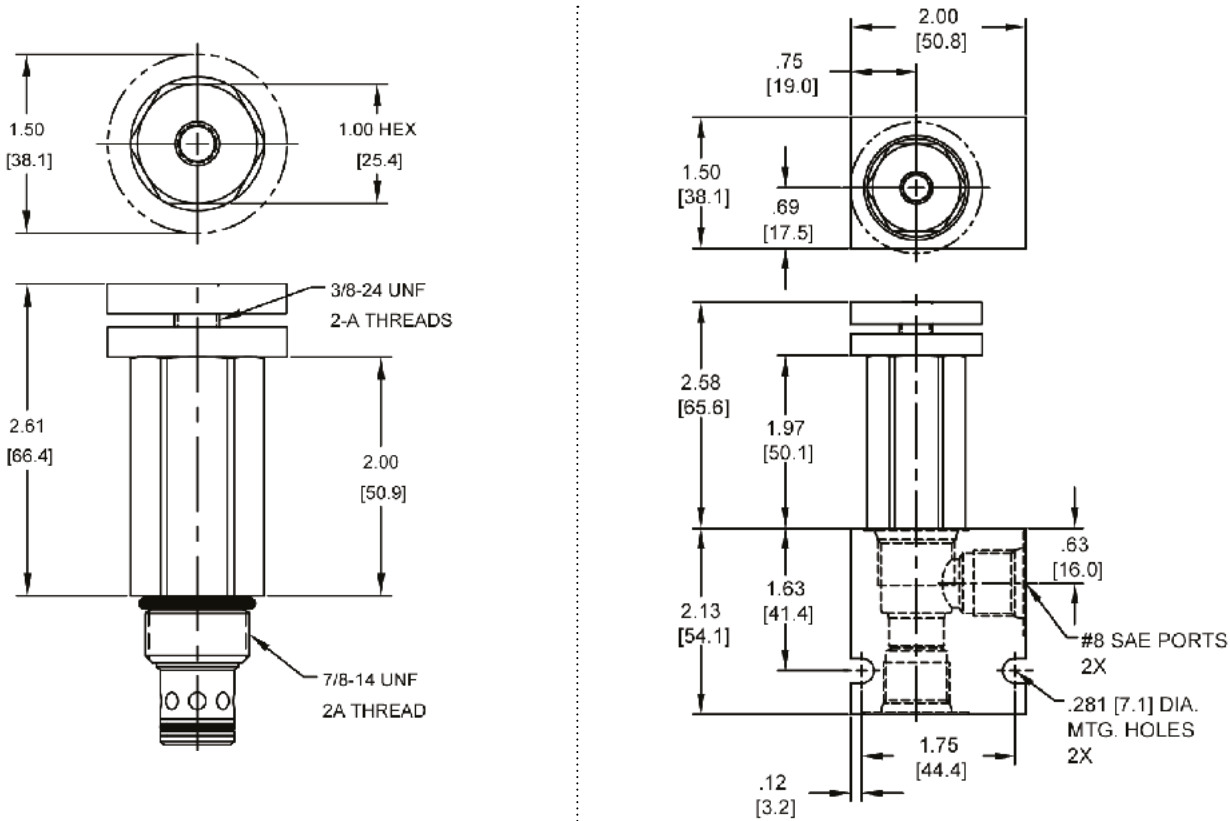


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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**

<p><b>DE-RWR</b> -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p>-</p> <p><b>4000</b></p>	<p>-</p> <p><b>PRESSURE RANGE/SETTING</b></p> <p>1000 - 4000 PSI</p> <p><b>Tamper Proof</b> Fill in 4 Digit Pressure Setting Example: 0500 - 500 PSI</p>	<p>-</p> <p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 3/8" NPTF Ports</p> <p><b>S</b> #8 SAE Ports</p>
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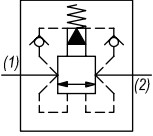
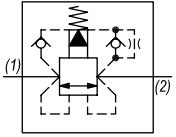


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**CROSSOVER RELIEF VALVES**

	GPM	PSI	LPM	BAR	CAVITY	MODEL	PAGE
	15	4000	57	276	7/8-14	<b>DE-RVB</b>	MP46
	15	4000	57	276	7/8-14	<b>DE-RVC</b>	MP48

**TYPICAL SCHEMATIC**

Typical application for the RVC is in a series circuit where a load on motor #2 causes back pressure on motor #1 and relief valve #1. Vent in port (2) of RV 1 allows spring to maintain proper load on motor #1 even though back pressure is present. Port (2) pressure into spring chamber to offset back pressure. Vent at port (2) causes .2 GPM flow from port (2) to port (1).

Typical application for the RVB is in a parallel circuit where the load on motor #2 does not cause back pressure on motor #1. Relief valve maintains differential pressure across motor because one side of motor always goes to tank.

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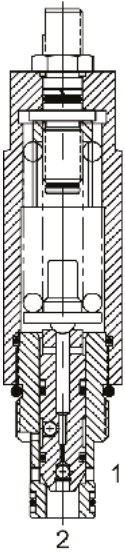


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**DE-RVB CROSSOVER RELIEF VALVE, FOR PARALLEL CIRCUITS**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, crossover relief valve for parallel circuit applications.

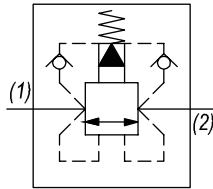
**OPERATION**

The DE-RVB is a direct-acting, cross over relief valve. When pressure at either port exceeds the nominal setting value, flow will be diverted to the opposite port. Back pressure at either port will affect the nominal setting of the opposite port on a 1:1 basis. For correlation purposes, pre-set value will be measured at port (2). Pressure at port (1) will not vary more than ±300 PSI from the port (2) value. The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

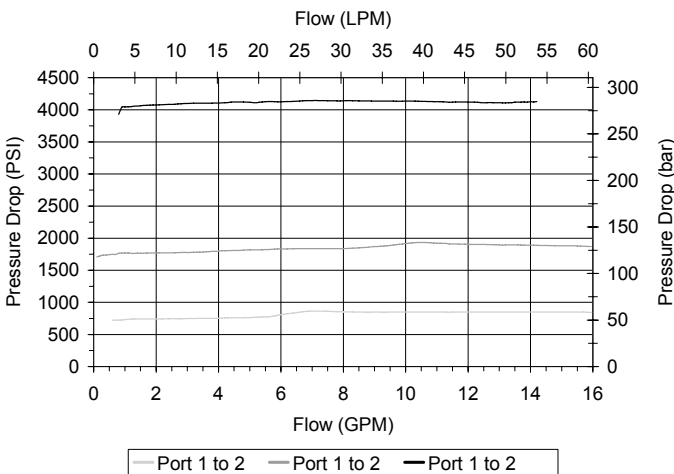
**HYDRAULIC SYMBOL**



The DE-RVB is designed for parallel circuit applications. For series circuits, use DE-RVC.

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM) from (2) to (1) 20 GPM (76 LPM) from (1) to (2)
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.80 lbs (.36 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191202

**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.

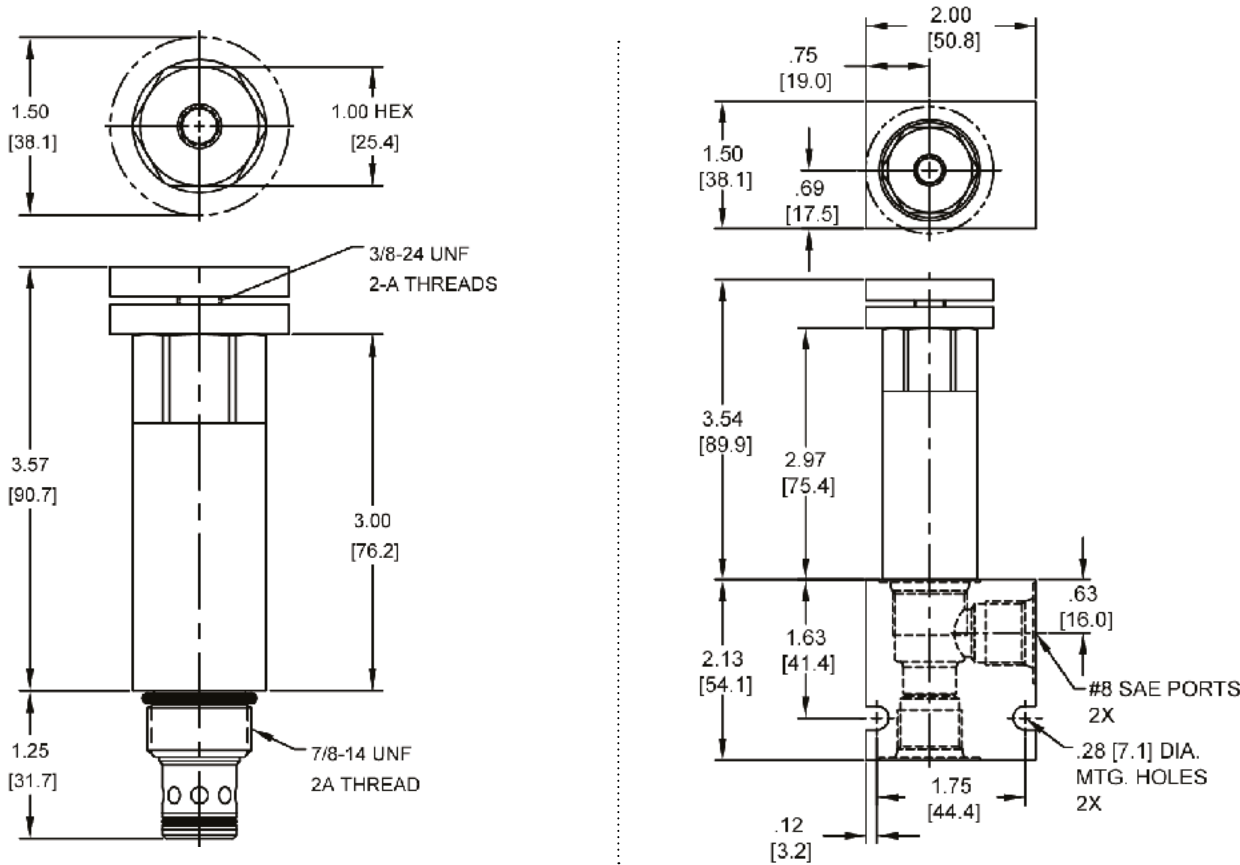


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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**

<p><b>DE-RVB</b> - - - -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 3/8" NPTF Ports</p> <p><b>S</b> #8 SAE Ports</p>
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**PRESSURE RANGE/SETTING**

Ext./Int. Adjustable

- 0700** 100 - 700 PSI
- 1800** 500 - 1800 PSI
- 4000** 1000 - 4000 PSI

**Tamper Proof**  
 Fill in 4 Digit Pressure Setting  
 Example: 0500 - 500 PSI

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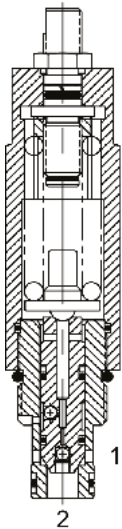


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**DE-RVC CROSSOVER RELIEF VALVE, FOR SERIES CIRCUITS**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, crossover relief valve for series circuit application.

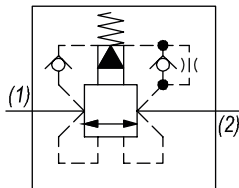
**OPERATION**

The DE-RVC is a direct-acting, cross over relief valve. When pressure at either port exceeds the nominal setting value, flow will be diverted to the opposite port. Back pressure at either port will affect the nominal setting of the opposite port on a 1:1 basis. For correlation purposes, pre-set value will be measured at port (2). Pressure at port (1) will not vary more than ±300 PSI from the port (2) value. The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

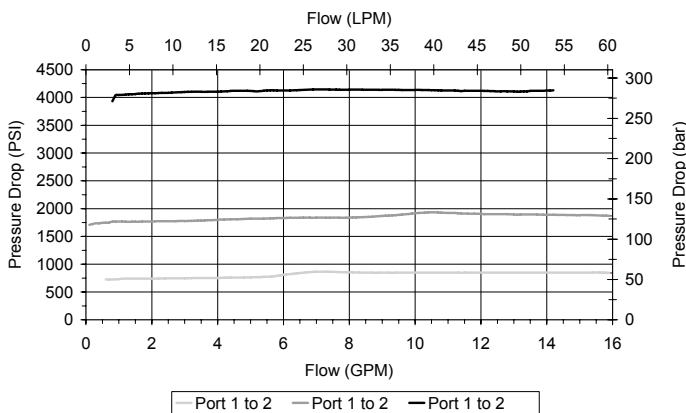
**HYDRAULIC SYMBOL**



The DE-RVC is designed for series circuit applications with controlled leakage between ports (2) and (1). For parallel circuits, use DE-RVB.

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM) from (2) to (1) 20 GPM (76 LPM) from (1) to (2)
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.80 lbs (.36 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191202

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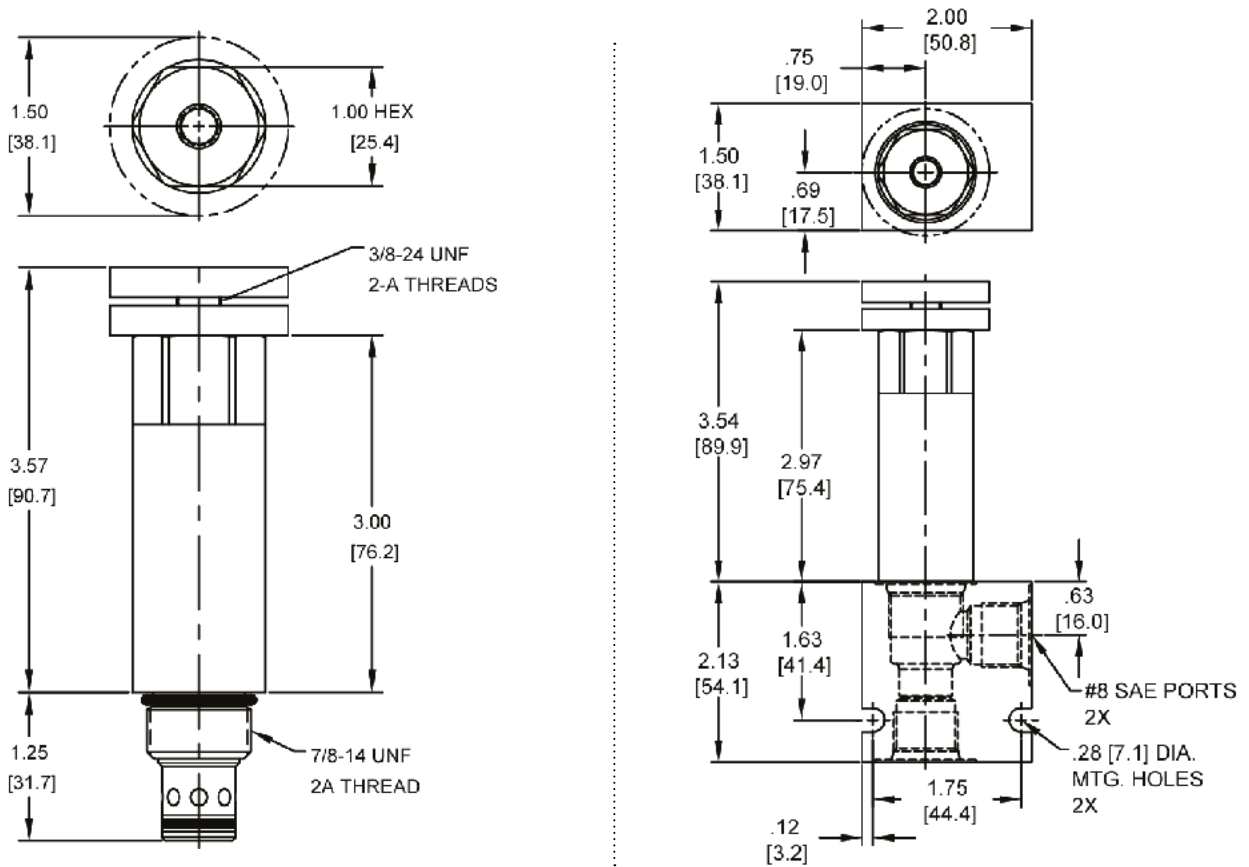
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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**

<p><b>DE-RVC</b> -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 3/8" NPTF Ports</p> <p><b>S</b> #8 SAE Ports</p>
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**PRESSURE RANGE/SETTING**

Ext./Int. Adjustable

- 0700** 100 - 700 PSI
- 1800** 500 - 1800 PSI
- 4000** 1000 - 4000 PSI

**Tamper Proof**

Fill in 4 Digit Pressure Setting  
Example: 0500 - 500 PSI

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

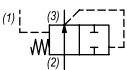

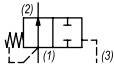
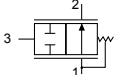
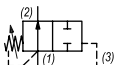


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**PRESSURE COMPENSATED REGULATOR VALVES**

	GPM	PSI	LPM	BAR	CAVITY	MODEL	PAGE
	10	3500	38	241	7/8-14	<b>DF-PCR</b>	MP52
	40	3500	151	241	1 1/16-12	<b>TR-PCA</b>	MP54
	33	3500	120	241	Special	<b>QC-CP3</b>	MP56
	40	3500	151	241	1 5/16-12	<b>SL-PCA</b>	MP58
	10	3500	38	241	7/8-14	<b>DG-PCB</b>	MP60
	10	3500	38	241	7/8-14	<b>DG-TCB</b>	MP62
	40	3500	151	241	1 5/16-12	<b>SL-PCB</b>	MP64
	8	3000	30	207	3/4-16	<b>PP-PCC</b>	MP66
	8	3500	30	241	7/8-14	<b>DF-CP2</b>	MP68
	19	3500	70	241	Special	<b>QC-CP2</b>	MP70
	20	3500	76	241	1 1/16-12	<b>TR-PCC</b>	MP72
	10	3500	38	241	7/8-14	<b>DF-PCE</b>	MP74
	40	3500	151	241	1 5/16-12	<b>SL-PCE</b>	MP76
	10	3500	38	241	7/8-14	<b>DF-PCS</b>	MP78
	10	3500	38	241	7/8-14	<b>DF-TCS</b>	MP80
	10	3500	38	241	7/8-14	<b>DF-PCT</b>	MP82

**TYPICAL SCHEMATIC**

These very flexible pressure compensator valves can regulate flow through many types of orifices: Electro-Proportional Orifices, Plate or Set Screw Orifices, Needle Valves &/or even across the pressure drop of other control valve (s). When using multiple compensating devices in the same circuit it is good practice to keep at least 50 PSID between their settings to reduce the likelihood of cross talking during dynamic events.

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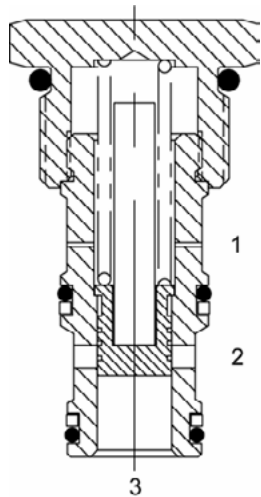


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**DF-PCR PRESSURE COMPENSATING REGULATOR VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pressure compensating regulator valve.

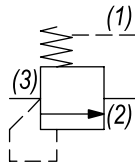
**OPERATION**

The DF-PCR-0P with an orifice between ports (3) and (1) maintains a constant flow rate from (3) regardless of load pressure changes in the system upstream of (3), or in the bypass leg at (2) as long as pressure at (2) is less than (1). The valve's spool maintains a constant differential pressure across an external orifice, thereby regulating the hydraulic flow rate from (3) to (2) (see options table for pressure ranges). When used with an orifice as described above, as a priority type regulator, delivering pump flow first to (3), then bypassing excess to (2). All ports may be fully pressurized. The DF-PCR-0V with a dump valve and a pilot relief valve at (1) acts as main stage of a ventable relief valve.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

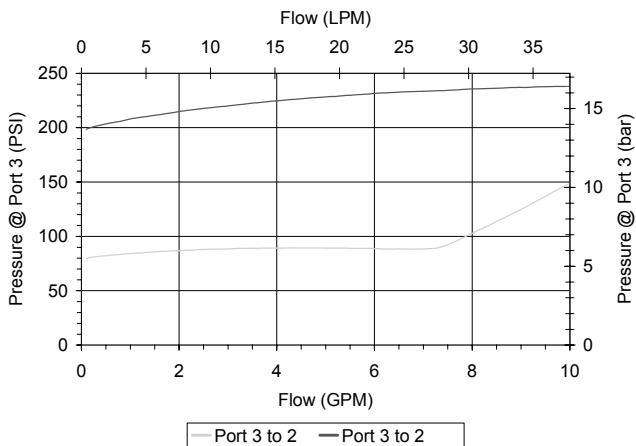
**HYDRAULIC SYMBOL**



Can be used as a logic element. DF-PCR-0P is commonly used as a bypass flow regulator (80 PSI recommended). DF-PCR-0V is commonly used as the main stage of a ventable relief valve (40 and 80 PSI recommended).

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Seat Ratio	Area of Pilot is equal to the area at Port (3)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.19 lbs (.09 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 3W
Cavity Form Tool (Finishing)	40500001
Seal Kit	21191206

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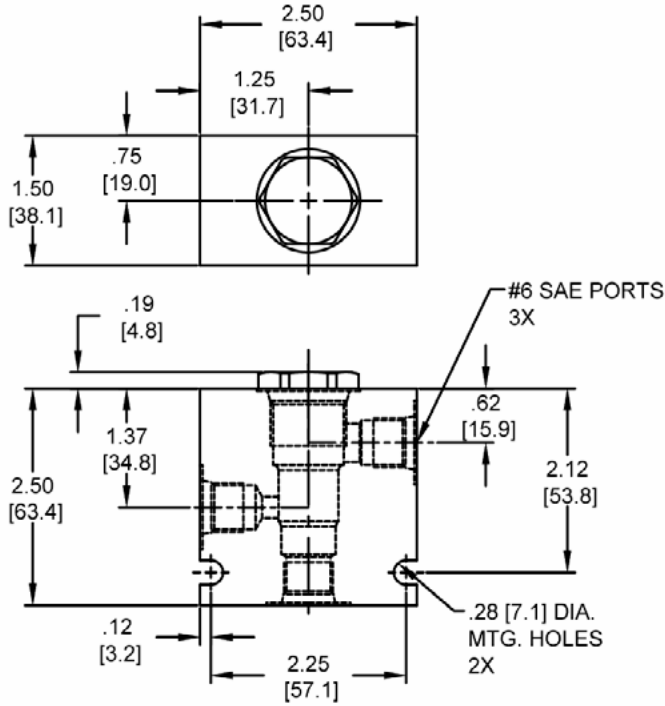
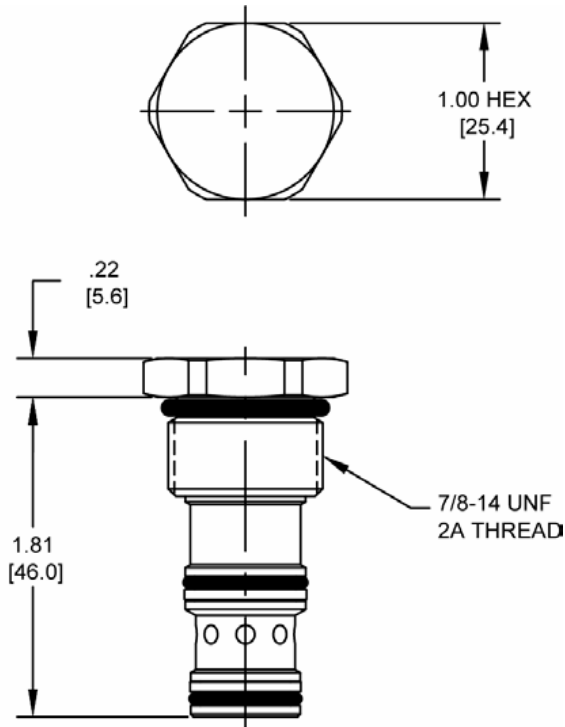


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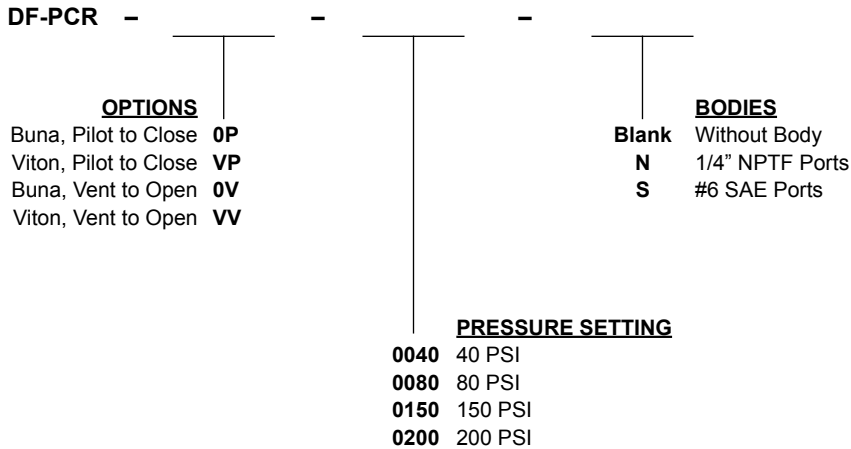
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DIMENSIONS



Body Weight: .76 lbs (.35 kg)

ORDERING INFORMATION



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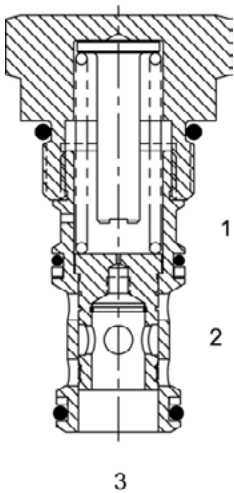


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**TR-PCA PRESSURE COMPENSATING REGULATOR VALVE**



**DESCRIPTION**

12 size, 1 1/16-12 thread, "Tecnom" series, pressure compensating regulator valve.

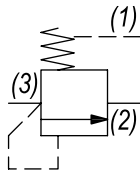
**OPERATION**

The TR-PCA-0P with an orifice between ports (3) and (1) maintains a constant flow rate from (3) regardless of load pressure changes in the system upstream of (3), or in the bypass leg at (2) as long as pressure at (2) is less than (1). The valve's spool maintains a constant differential pressure across an external orifice, thereby regulating the hydraulic flow rate across this external orifice (see options table for pressure ranges). When used with an orifice as described above, it functions as a priority type regulator, delivering pump flow first to the external orifice, then bypassing excess to (2). All ports may be fully pressurized. The TR-PCA-0V with a dump valve and a pilot relief valve at (1) acts as main stage of a ventable relief valve.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

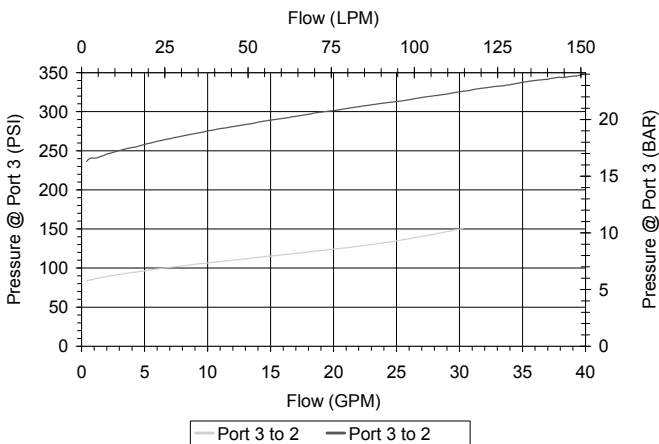
**HYDRAULIC SYMBOL**



Can be used as a logic element. TR-PCA-0P is commonly used as a bypass flow regulator (90 and 150 PSI recommended). TR-PCA-0V is commonly used as the main stage of a ventable relief valve (50 and 90 PSI recommended).

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	40 GPM (151 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Seat Ratio	Area of Pilot is equal to the area at Port (3)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.54 lbs (.24 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	70 ft-lbs (95 Nm)
Cavity	TECNORD 3WS
Cavity Form Tool (Finishing)	40500033
Seal Kit	21191306

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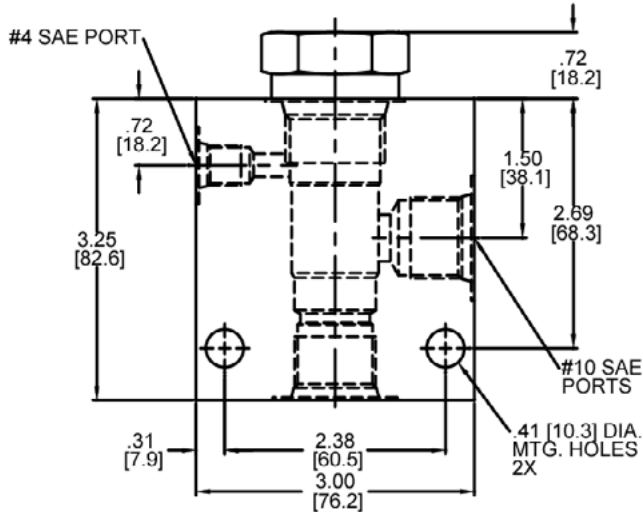
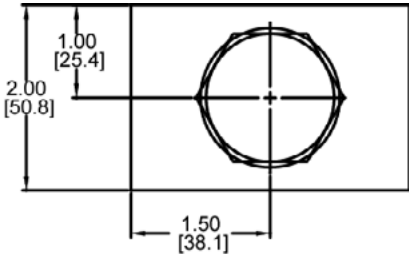
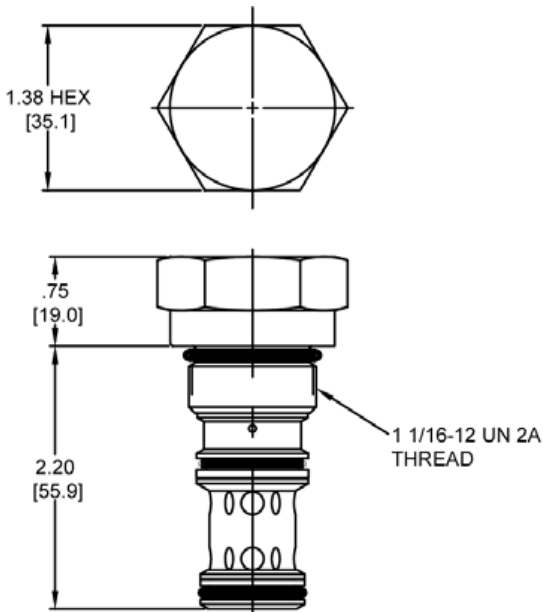


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**DIMENSIONS**



Body Weight: 1.56 lbs (.70 kg)

**ORDERING INFORMATION**

TR-PCA - - -

<p><b>OPTIONS</b></p> <p>Buna, Pilot to Close <b>OP</b></p> <p>Viton, Pilot to Close <b>VP</b></p> <p>Buna, Vent to Open <b>OV</b></p> <p>Viton, Vent to Open <b>VV</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p>S #10 SAE Ports</p>
---	---

**Δ P SETTING**  
@ 1 GPM with Pilot Vented

<b>0020</b>	20 PSI
<b>0050</b>	50 PSI
<b>0090</b>	90 PSI
<b>0150</b>	150 PSI
<b>0230</b>	230 PSI
	±10%

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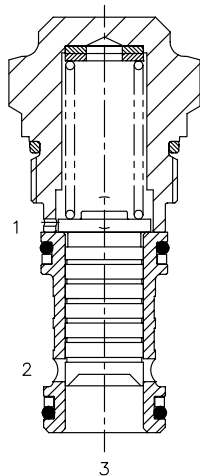


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**QC-CP3 PRESSURE COMPENSATING VALVE, BYPASS TYPE FOR 3 WAY FLOW CONTROL**



**DESCRIPTION**

Special cavity, pressure compensating valve, bypass type, for 3 way flow control, normally closed.

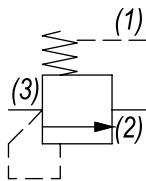
**OPERATION**

The QC-CP3 with an orifice between ports (3) and (1) maintains a constant flow rate from (3) regardless of load pressure changes in the system upstream of (3), or in the bypass leg at (2) as long as pressure at (2) is less than (1). The valve's spool maintains a constant differential pressure across an external orifice, thereby regulating the hydraulic flow rate from (3) to (2), (see options table for pressure ranges). When used with an orifice as described above, as a priority type regulator, delivering pump flow first to (3), then bypassing excess to (2). All ports may be fully pressurized.

**FEATURES**

- Hardened parts for long life.
- Spring range from 8 to 24 bar.

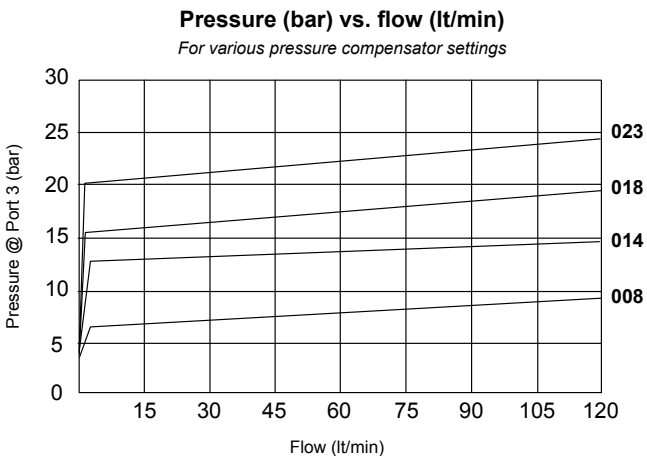
**HYDRAULIC SYMBOL**



*Pressure compensator for 3 way flow control, typically used with an external orifice between ports (3) and (1). Port (1) should sense upstream pressure of orifice.*

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	33 GPM (120 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Typical Internal Leakage (150 SSU)	35 ml/min @ 250 bar
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.35 lbs (.16 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	52 ft-lbs (70 Nm)
Cavity	T031 (Special)
Cavity Tools Kit (form tool, reamer, tap)	K-T031
Seal Kit	210902321

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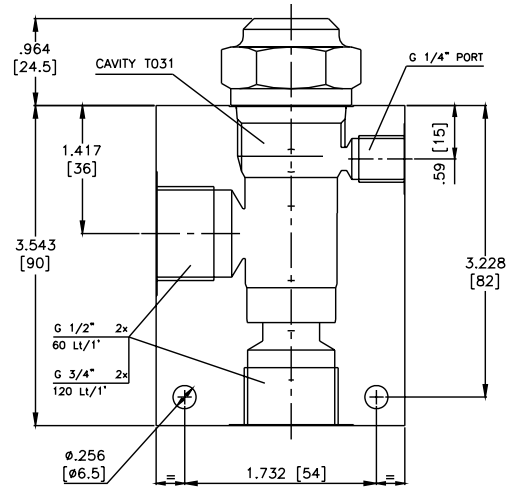
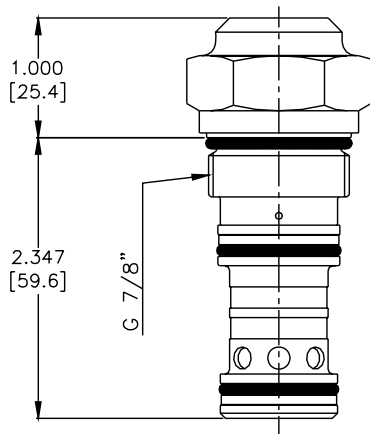
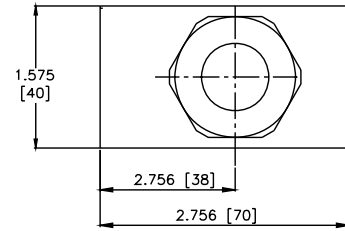
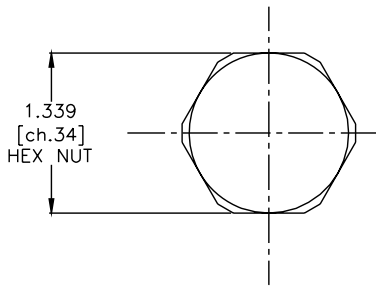
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**DIMENSIONS**



(for bodies style and sizes see section "Accessories")

**ORDERING INFORMATION**

QC-CP3 - - -

**OPTIONS**

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

**BODIES**

Blank Without Body  
**N** 1/2" BSP Ports  
**S** #8 SAE Ports

**PRESSURE SETTINGS**

**008** 8 bar (115 PSI) @ 60 l/min  
**014** 14 bar (200 PSI) @ 60 l/min  
**018** 18 bar (260 PSI) @ 60 l/min  
**023** 23 bar (330 PSI) @ 60 l/min

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**SL-PCA PRESSURE COMPENSATING REGULATOR VALVE**

**DESCRIPTION**

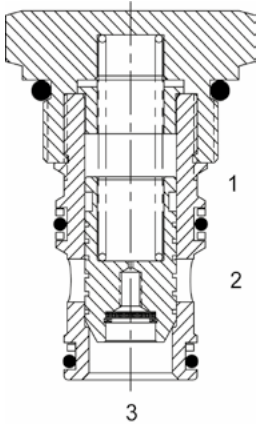
16 size, 1 5/16-12 thread, "Super" series, pressure compensating regulator valve.

**OPERATION**

The SL-PCA-0P with an external orifice between ports (3) and (1) maintains a constant flow rate across the external orifice, regardless of load pressure changes in the system upstream of (3), or in the bypass leg at (2) as long as pressure at (2) is less than (1). The valve's spool maintains a constant differential pressure across the external orifice, thereby regulating the hydraulic flow rate across the external orifice (see options table for pressure ranges). When used with an orifice as described above, it functions as a priority type regulator, delivering pump flow first to the external orifice, then bypassing excess to (2). All ports may be fully pressurized. The SL-PCA-0V with a dump valve and a pilot relief valve at (1) acts as main stage of a ventable relief valve.

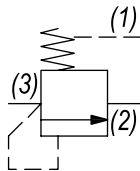
**FEATURES**

- Hardened parts for long life.
- Industry common cavity.



Can be used as a logic element. SL-PCA-0P is commonly used as a bypass flow regulator (100 PSI recommended). SL-PCA-0V is commonly used as the main stage of a ventable relief valve (50 and 100 PSI recommended).

**HYDRAULIC SYMBOL**

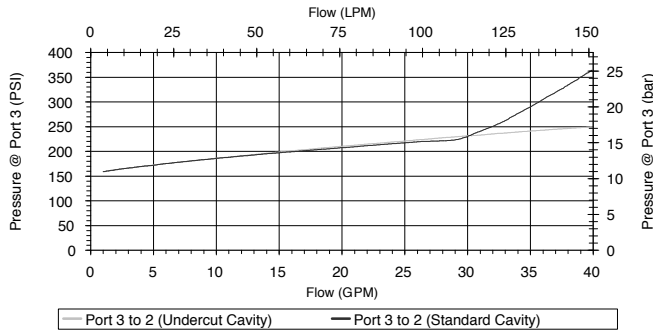
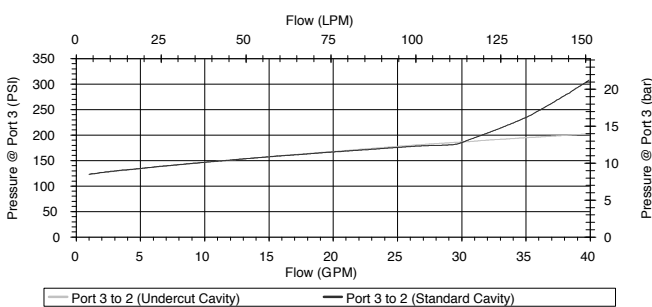


**VALVE SPECIFICATIONS**

Nominal Flow	40 GPM (151 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Seat Ratio	Initially area of Pilot is 1.2 times the area at Port (3), then 1:1
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.70 lbs (.32 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	90 ft-lbs (122 Nm)
Cavity	SUPER 3WS
Cavity Form Tool (Finishing)	40500021
Seal Kit	21191406

**PERFORMANCE**

Actual Test Data (Cartridge Only)



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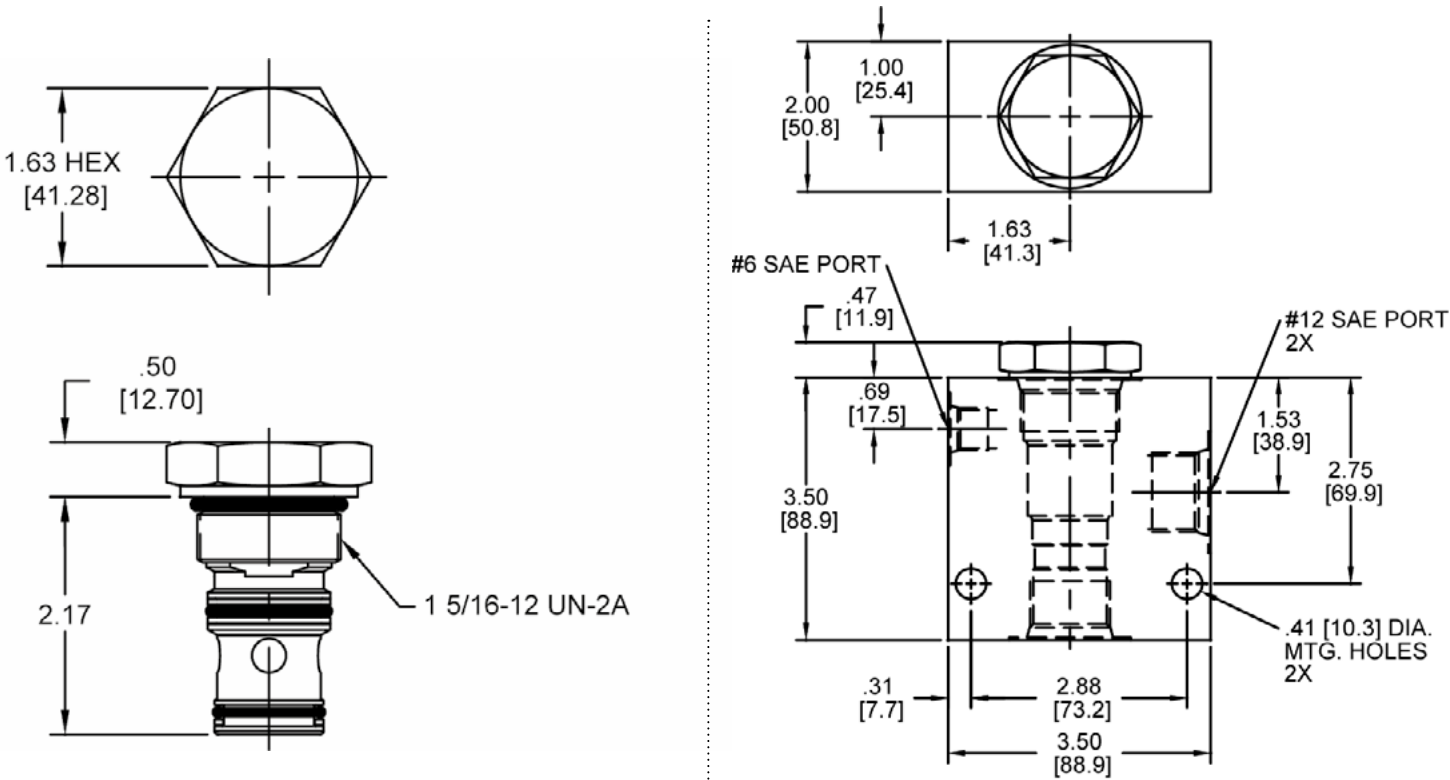


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**DIMENSIONS**



Body Weight: 1.89 lbs (.86 kg)

**ORDERING INFORMATION**

<p><b>SL-PCA</b> - - -</p> <p><b>OPTIONS</b></p> <p>Buna, Pilot to Close <b>0P</b></p> <p>Viton, Pilot to Close <b>VP</b></p> <p>Buna, Vent to Open <b>0V</b></p> <p>Viton, Vent to Open <b>VV</b></p> <p>Buna, Pilot to Close with Seals <b>0B</b></p> <p>Viton, Pilot to Close with Seals <b>VB</b></p> <p>Buna, Vent to Open with Seals <b>0C</b></p> <p>Viton, Vent to Open with Seals <b>VC</b></p>	<p><b>BODIES</b></p> <p><b>Blank</b> Without Body</p> <p><b>S</b> #12 SAE Ports</p>
<p><b>Δ P SETTING</b></p> <p><b>@ 1 GPM with Pilot Vented</b></p> <p><b>0020</b> 20 PSI</p> <p><b>0050</b> 50 PSI</p> <p><b>0100</b> 100 PSI</p> <p><b>0150</b> 150 PSI</p>	

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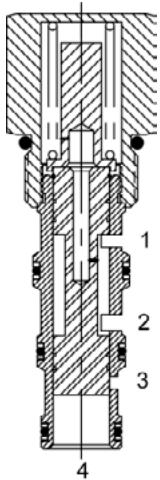


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**DG-PCB PRESSURE COMPENSATING VALVE, RESTRICTIVE TYPE WITH BY-PASS**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pressure compensating valve, restrictive type with bypass.

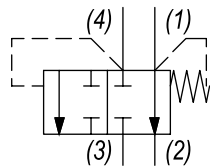
**OPERATION**

The DG-PCB allows pressure compensated or proportional flow from (1) to (2) regulated by the pressure differential across (1) and (4) with a bypass of (4) to (3). The spring chamber is constantly connected at (1).

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**

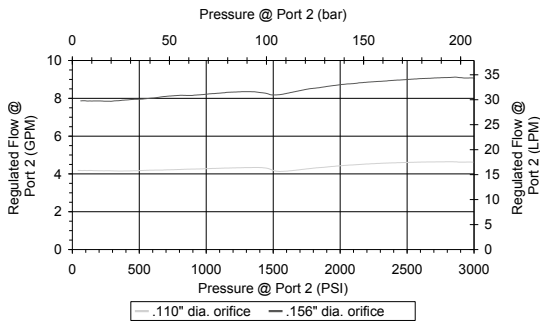


*DG-PCB is not intended for differential pressure more than 1500 PSI from (4) to (3). Consult Factory for abrupt pressure change applications that exceed 1500 PSI, for alternative products.*

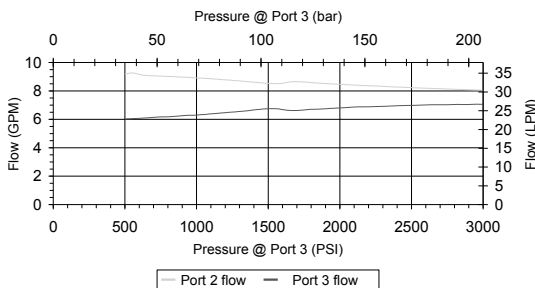
**PERFORMANCE**

**Actual Test Data (Cartridge Only with 150 PSI Spring)**

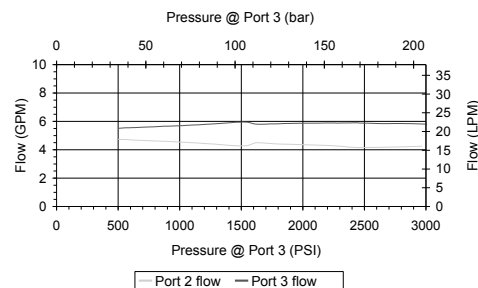
10 GPM Supply flow, .110" Orifice, 150 PSI spring  
 15 GPM Supply flow, .156" Orifice, 150 PSI spring - 1500 PSI load on port (3)



Priority port (2) load: 1500-1700 psi, .156" dia orifice, 15 gpm supply  
 not intended for differential pressure > 1500 psi port (4) to port (3)



Priority port (2) load: 1500-1700 PSI, .110" dia orifice, 10 GPM supply  
 not intended for differential pressure > 1500 PSI port (4) to port (3)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min) per path
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.38 lbs (.17 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Form Tool (Finishing)	40500002
Seal Kit	21191214

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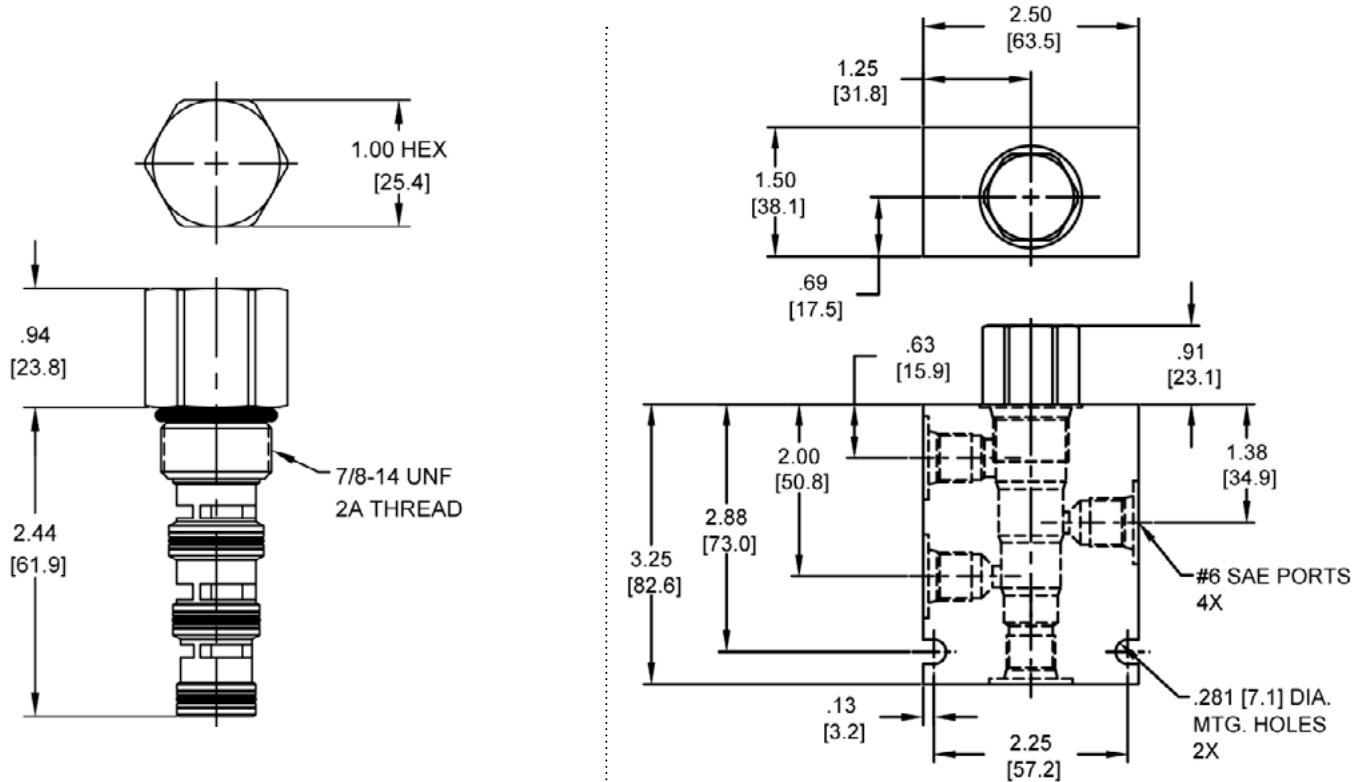


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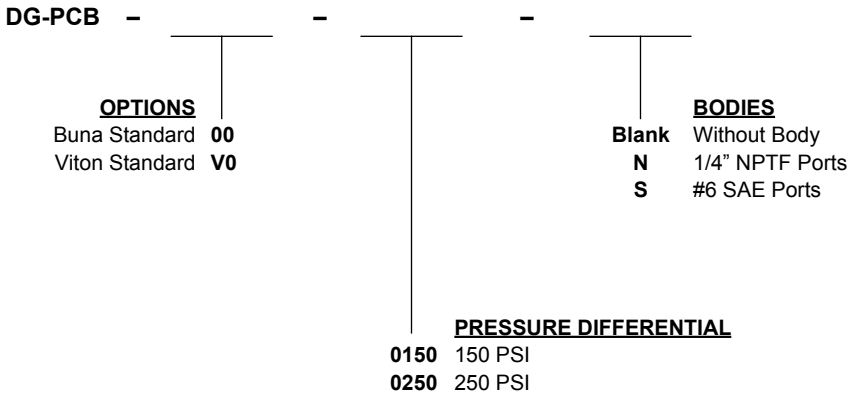
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DIMENSIONS



Body Weight: .99 lbs (.45 kg)

ORDERING INFORMATION



Differential Pressure Across External Controlling Orifice

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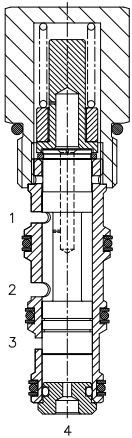


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**DG-TCB PRESSURE COMPENSATING VALVE, RESTRICTIVE TYPE WITH BYPASS**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pressure compensating valve, restrictive type with bypass.

**OPERATION**

The DG-TCB allows pressure compensated or proportional flow from (1) to (2) regulated by the pressure differential across (1) and (4) with a bypass of (4) to (3). The spring chamber is constantly connected at (1).

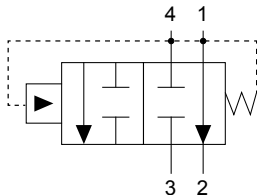
**FEATURES**

- Hardened parts for longer life.
- Industry common cavity.



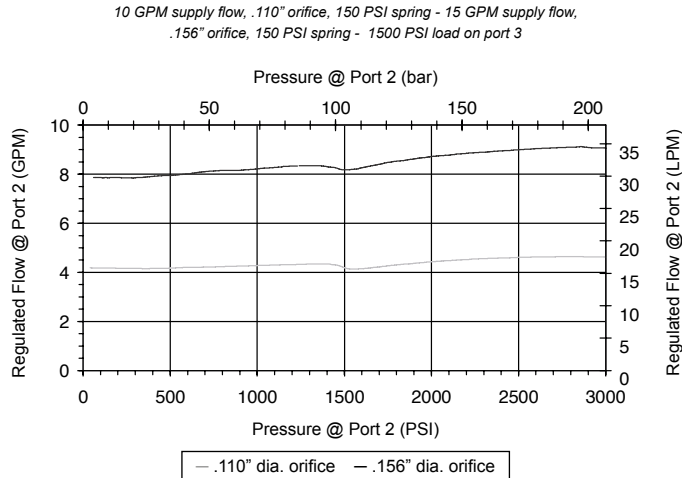
Bypass line (3) can be pressurized.

**HYDRAULIC SYMBOL**



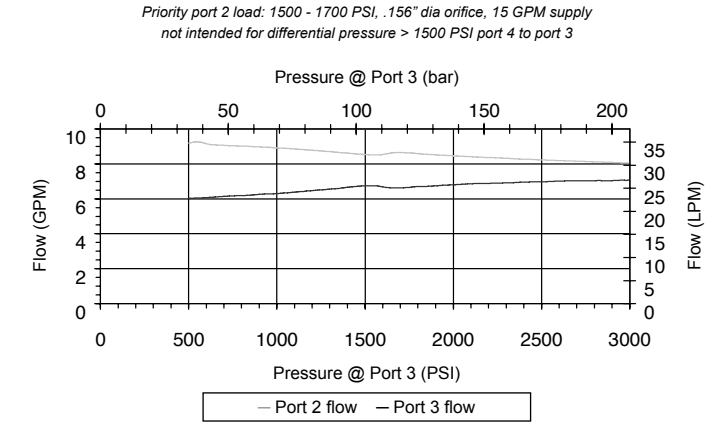
**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min) per path
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.38 lbs (.17 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Tools Kit (form tool, reamer, tap)	40500002
Seal Kit	21191214



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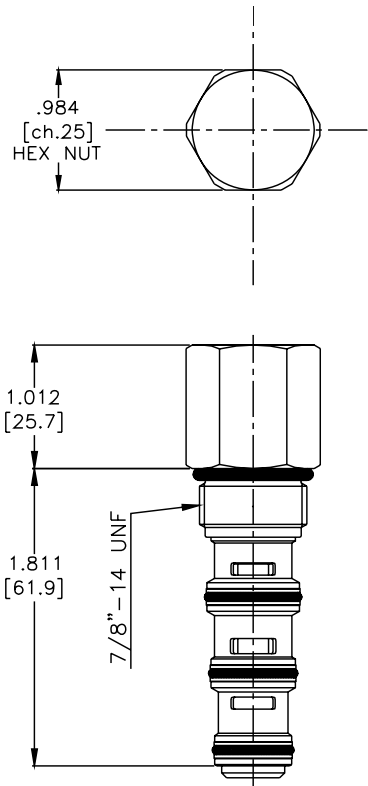
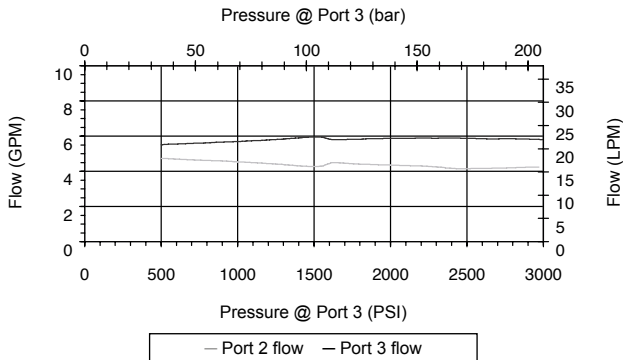
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**DIMENSIONS**

Priority port 2 load: 1500 - 1700 PSI, .110" dia orifice, 10 GPM supply  
not intended for differential pressure > 1500 PSI port 4 to port 3



(for bodies style and sizes see section "Accessories")

**ORDERING INFORMATION**

**DG-TCB** - - -

<p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p>	<p><b>BODIES</b></p> <p><b>Blank</b> Without Body</p> <p><b>N</b> 3/8" BSP Ports</p> <p><b>S</b> #6 SAE Ports</p>
--	---

**PRESSURE SETTINGS**

**014** 14 bar (200 PSI)

**020** 20 bar (285 PSI)

**032** 32 bar (460 PSI)

Differential Pressure Across  
External Controlling Orifice

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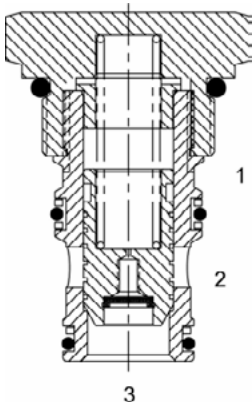


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**SL-PCB PRESSURE COMPENSATING REGULATOR VALVE**

**DESCRIPTION**

16 size, 1 5/16-12 thread, "Super" series, pressure compensating regulator valve.



**OPERATION**

The SL-PCB-0P with an orifice between ports (3) and (1) maintains a constant flow rate from (3) regardless of load pressure changes in the system upstream of (3), or in the bypass leg at (2) as long as pressure at (2) is less than (1). The valve's spool maintains a constant differential pressure across an internal orifice, thereby regulating the hydraulic flow rate from across this external orifice (see options table for pressure ranges). When used with an orifice as described above, it functions as a priority type regulator, delivering pump flow first to the external orifice, then bypassing excess to (2). All ports may be fully pressurized. The SL-PCB-0V with a dump valve and a pilot relief valve at (1) acts as main stage of a ventable relief valve.

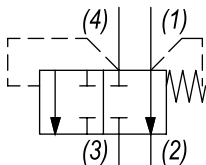
**FEATURES**

- Hardened parts for long life.
- Industry common cavity.



Can be used as a logic element. SL-PCB-0P is commonly used as a bypass flow regulator (100 PSI recommended). SL-PCB-0V is commonly used as the main stage of a ventable relief valve (50 and 100 PSI recommended).

**HYDRAULIC SYMBOL**

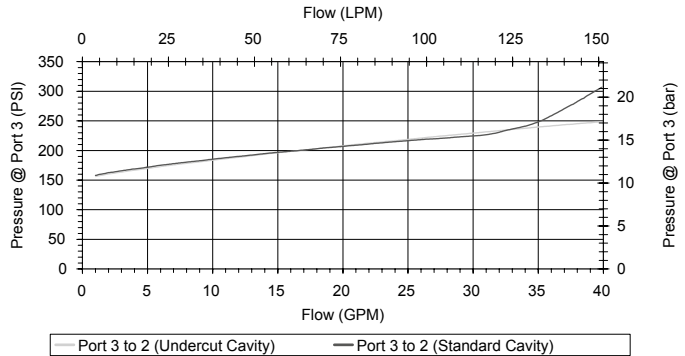
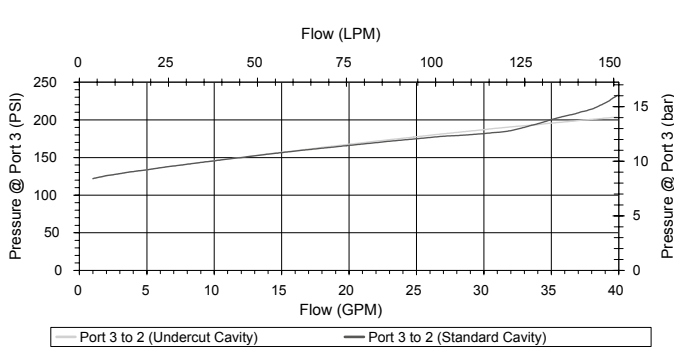


**VALVE SPECIFICATIONS**

Nominal Flow	40 GPM (151 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Seat Ratio	Initially area of Pilot is 1.5 times the area at Port (3), then 1:1
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.71 lbs (.32 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	90 ft-lbs (122 Nm)
Cavity	SUPER 3WS
Cavity Form Tool (Finishing)	40500017
Seal Kit	21191406

**PERFORMANCE**

Actual Test Data (Cartridge Only)



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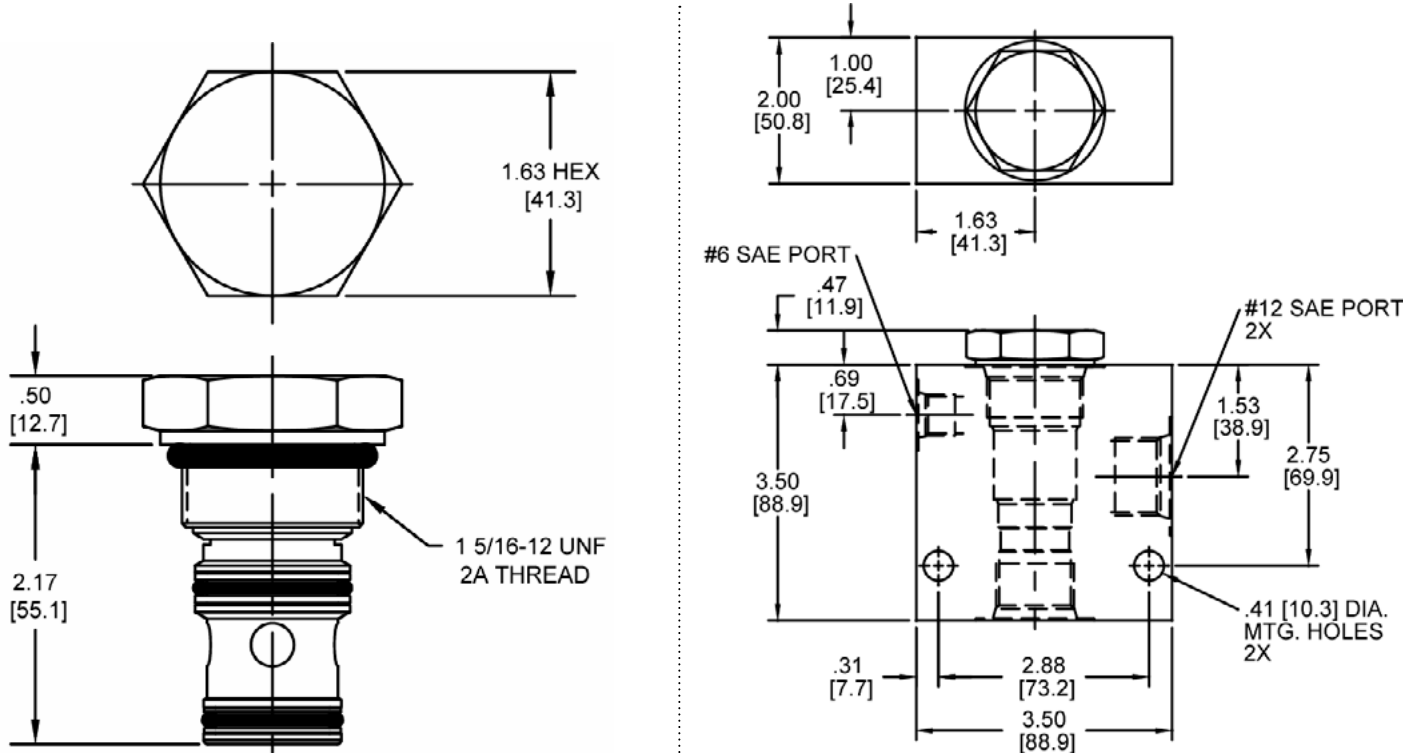
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**DIMENSIONS**



Body Weight: 1.89 lbs (.86 kg)

**ORDERING INFORMATION**

<p><b>SL-PCB</b> -</p> <p><b>OPTIONS</b></p> <p>Buna, Pilot to Close <b>OP</b></p> <p>Viton, Pilot to Close <b>VP</b></p> <p>Buna, Vent to Open <b>OV</b></p> <p>Viton, Vent to Open <b>VV</b></p> <p>Buna, Pilot to Close with Seals <b>OB</b></p> <p>Viton, Pilot to Close with Seals <b>VB</b></p> <p>Buna, Vent to Open with Seals <b>OC</b></p> <p>Viton, Vent to Open with Seals <b>VC</b></p>	<p><b>BODIES</b></p> <p><b>Blank</b> Without Body</p> <p><b>S</b> #12 SAE Ports</p>
<p><b>Δ P SETTING</b></p> <p><b>@ 1 GPM with Pilot Vented</b></p> <p><b>0020</b> 20 PSI</p> <p><b>0050</b> 50 PSI</p> <p><b>0100</b> 100 PSI</p> <p><b>0150</b> 150 PSI</p> <p>±20%</p>	

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**PP-PCC FIXED PRESSURE COMPENSATING REGULATOR VALVE - RESTRICTIVE TYPE**

**DESCRIPTION**

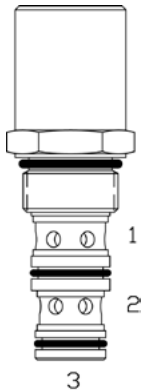
8 size, 3/4-16 thread, "Power" series, pressure compensating regulator valve (restrictive type).

**OPERATION**

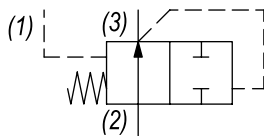
The PP-PCC-00 with an external orifice beyond port (3) and sensed by port (1) maintains a constant flow rate from (3) regardless of load pressure changes in the system downstream of (3), or in the inlet at (2) as long as pressure at (3) is above (1) by more than spring setting chosen and pump supply is in excess of demand. The valve's spool maintains a constant differential pressure across an external orifice, thereby regulating the hydraulic flow rate across this external orifice (see options table for pressure ranges). When used with an orifice as described above, it functions as a restrictive type regulator, delivering pump flow through the external orifice. All ports may be fully pressurized.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.



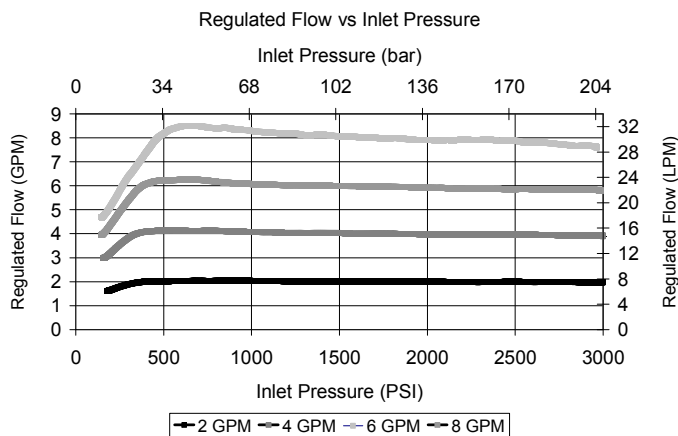
**HYDRAULIC SYMBOL**



Can be used as a logic element. Fixed setting pressure reducing valve. For adjustable setting see PP-PCD. PP-PCC-00-0100 is recommended for regulated flows up to 4.0 GPM only. PP-PCC-00-0220 is recommended for regulated flows up to 8.0 GPM. For fixed pressure reducing/relieving valve see PP-PCP.

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	8 GPM (30 LPM)
Rated Operating Pressure	3000 PSI (207 bar)
Ratio	Area of Pilot is equal to the area at Port (3)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.25 lbs (.11 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	25 ft-lbs (34 Nm)
Cavity	POWER 3W
Cavity Form Tool (Finishing)	40500024
Seal Kit	21191111

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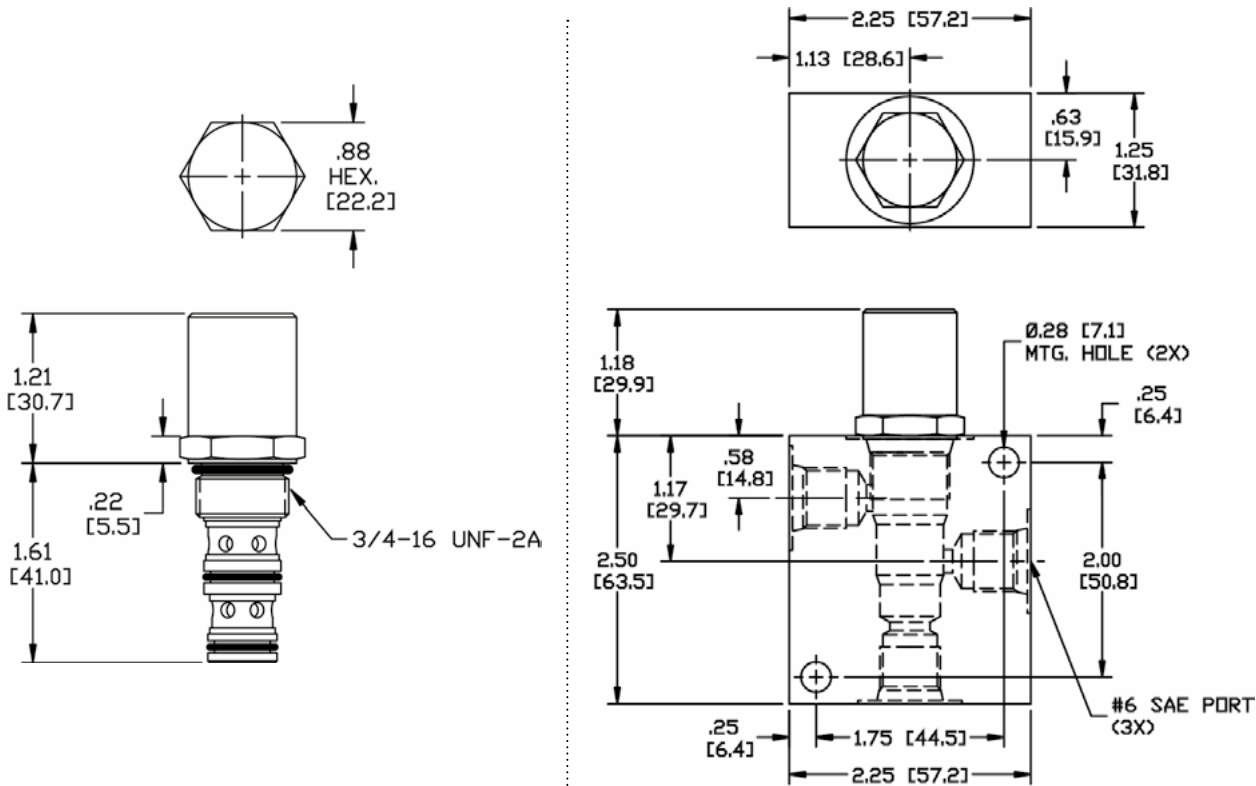


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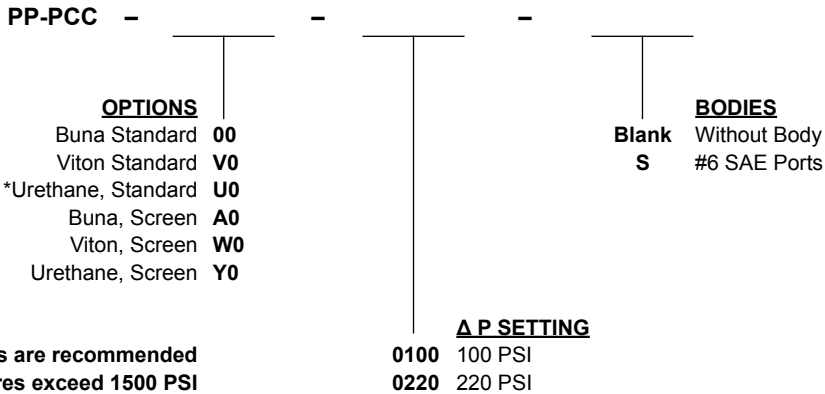
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DIMENSIONS



Body Weight: .56 lbs (.25 kg)

ORDERING INFORMATION



\*Urethane seals are recommended when inlet pressures exceed 1500 PSI

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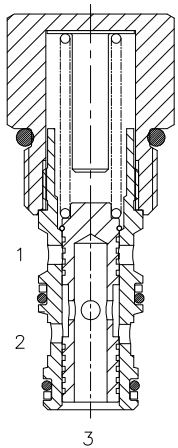


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**DF-CP2 PRESSURE COMPENSATING/REDUCING VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, 2 ways pressure compensating/reducing valve.

**OPERATION**

The DF-CP2 allows pressure compensated flow from (2) to (3) regulated by the pressure present at (1). Pressure differential between (3) and (1) is fixed at 8/14/18 bar (according to the pressure settings). These are minimum values, increasing with the flow because of the pressure drop through the valve (see graph). When used with (1) connected to a drain line, it works as pressure reducing valve.

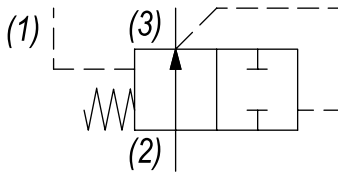
**FEATURES**

- Hardened parts for long life.
- Industry common cavity.
- Spring range 8 to 18 bar.



*Pressure compensator for 2 way flow control, typically used with an external orifice inline with port (3). Port (1) should sense upstream pressure of orifice.*

**HYDRAULIC SYMBOL**



**PERFORMANCE**

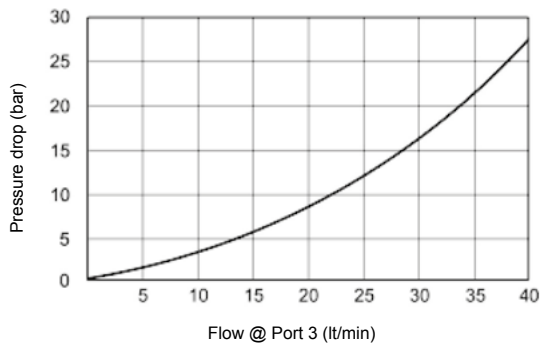
Actual Test Data (Cartridge Only)

**VALVE SPECIFICATIONS**

Nominal Flow	8 GPM (30 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Typical Internal Leakage (150 SSU)	35 ml/min @ 250 bar
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-25° to +95°C
Weight	.35 lbs (.16 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	33 ft-lbs (45 Nm)
Cavity	DELTA 3W
Cavity Tools Kit (form tool, reamer, tap)	40500001
Seal Kit	210902025

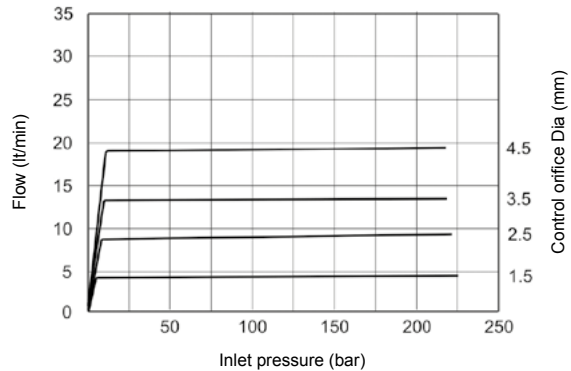
**Pressure Drop (bar) vs. Flow (lt/min)**

*For various pressure compensator settings (bar)*



**DF-CP2 008 - Flow (lt/min) vs. inlet pressure (bar)**

*For various orifice diameters (mm)*



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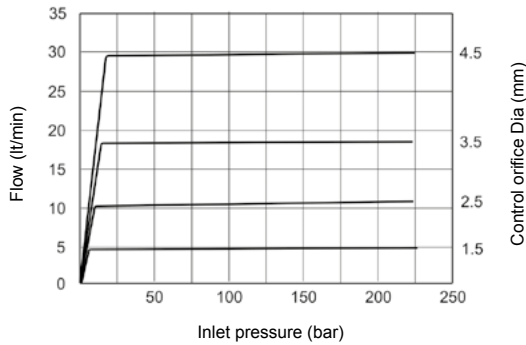
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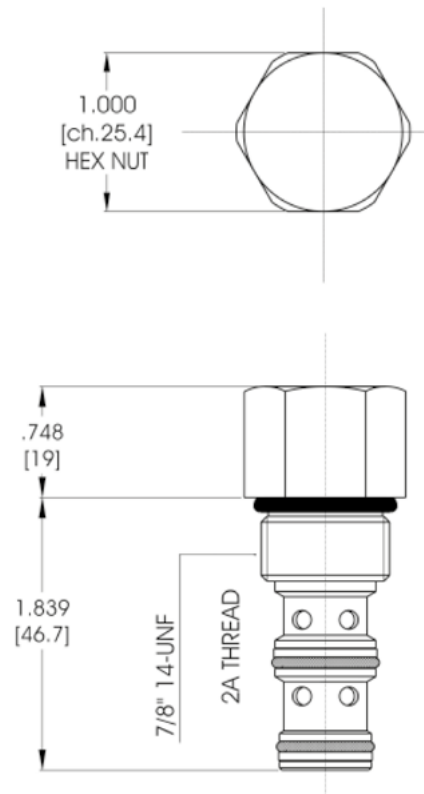
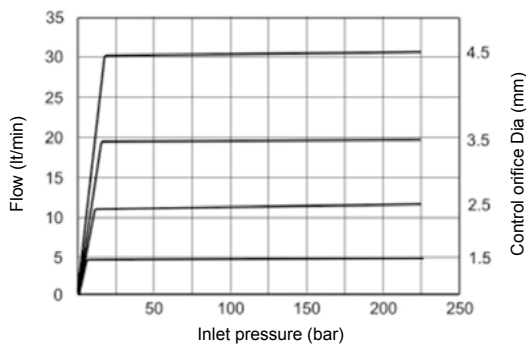
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**DIMENSIONS**

**DF-CP2 014 - Flow (lt/min) vs. inlet pressure (bar)**  
For various orifice diameters (mm)



**DF-CP2 018 - Flow (lt/min) vs. inlet pressure (bar)**  
For various orifice diameters (mm)



(for bodies style and sizes see section "Accessories")

**ORDERING INFORMATION**

DF-CP2 - - -

**OPTIONS**

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

**BODIES**

- Blank** Without Body
- N** 3/8" BSP Ports
- S** #6 SAE Ports

**PRESSURE SETTINGS**

- 008** 8 bar (115 PSI)
- 014** 14 bar (200 PSI)
- 018** 18 bar (260 PSI)

Differential Pressure Across  
External Controlling Orifice

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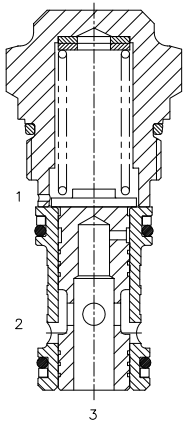


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**QC-CP2 PRESSURE COMPENSATING/REDUCING VALVE**



**DESCRIPTION**

Special cavity, 2 ways pressure compensating/reducing valve.

**OPERATION**

The QC-CP2 allows pressure compensated flow from (2) to (3) regulated by the pressure present at (1). Pressure differential between (3) and (1) is fixed at 8/14/18/24 bar (according to the pressure settings). These are minimum values, increasing with the flow because of the pressure drop through the valve (see graph). When used with (1) connected to a drain line, it works as a fix setting pressure reducing valve.

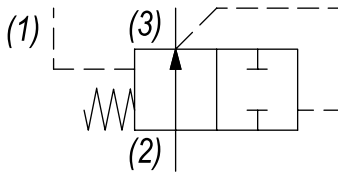
**FEATURES**

- Hardened parts for long life.
- Spring range 8 to 24 bar.



*Pressure compensator for 2 way flow control, typically used with an external orifice inline with port (3). Port (1) should sense upstream pressure of orifice.*

**HYDRAULIC SYMBOL**



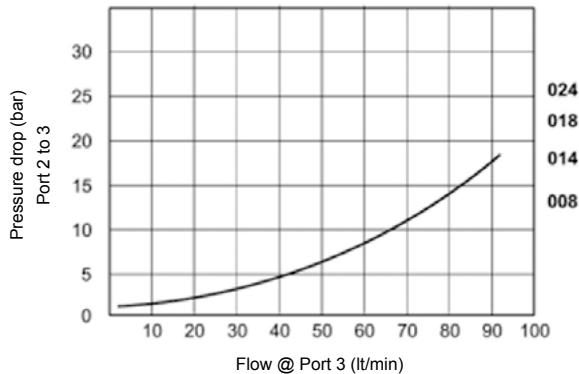
**PERFORMANCE**

Actual Test Data (Cartridge Only)

**VALVE SPECIFICATIONS**

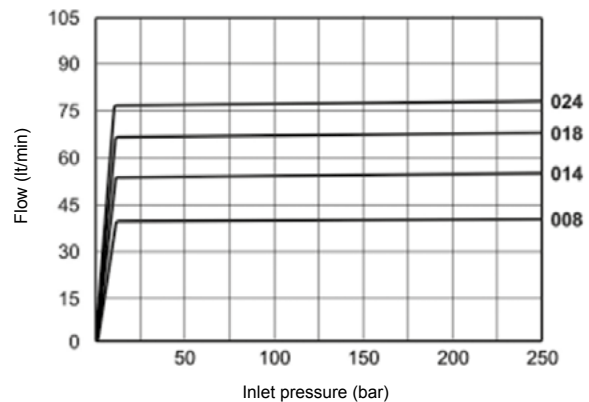
Nominal Flow	19 GPM (70 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Typical Internal Leakage (150 SSU)	35 ml/min @ 250 bar
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.35 lbs (.16 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	52 ft-lbs (70 Nm)
Cavity	T031 (Special)
Cavity Tools Kit (form tool, reamer, tap)	K-T031
Seal Kit	210902012

**Pressure drop (bar) vs. flow (lt/min)**



**Flow (lt/min) vs. inlet pressure (bar)**

For various press. compensator valve settings - Re: control orifice diameter: 5.5 mm



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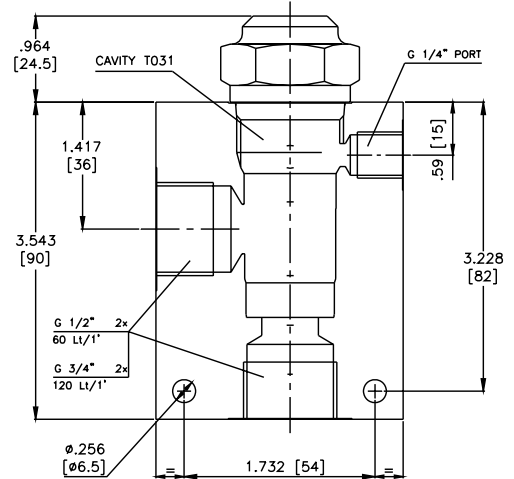
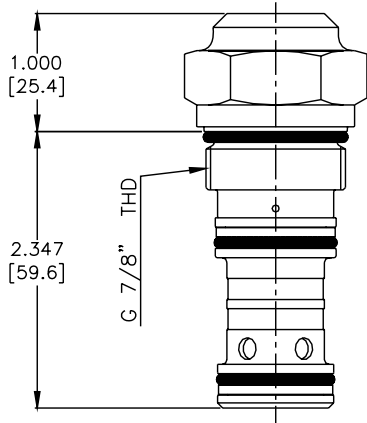
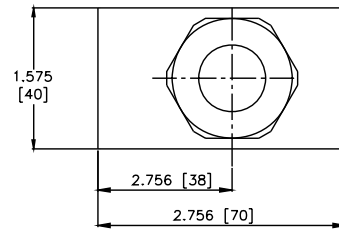
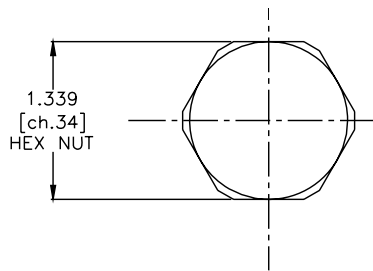


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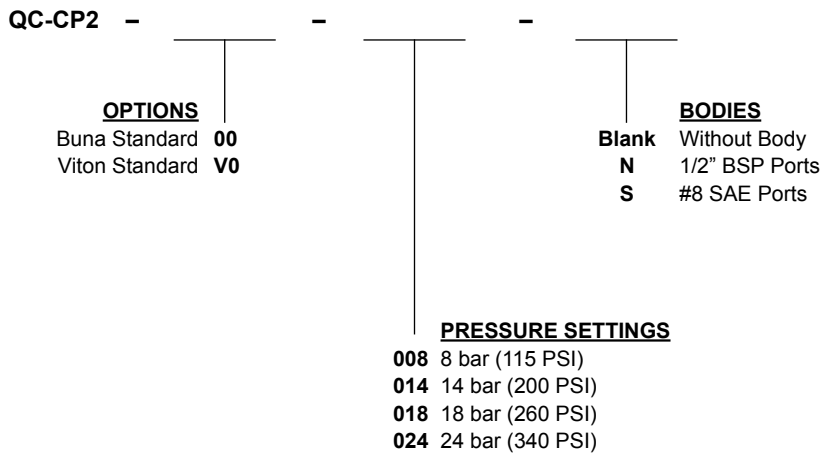
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**DIMENSIONS**



(for bodies style and sizes see section "Accessories")

**ORDERING INFORMATION**



Differential Pressure Across  
External Controlling Orifice

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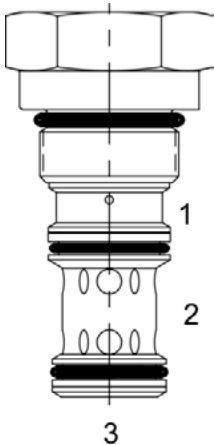


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**TR-PCC PRESSURE COMPENSATING REGULATOR VALVE – RESTRICTIVE TYPE**



**DESCRIPTION**

12 size, 1 1/16-12 thread, "Tecnorm" series, pressure compensating regulator valve (restrictive type).

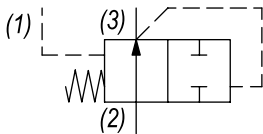
**OPERATION**

The TR-PCC with an external orifice beyond port (3) and sensed by port (1) maintains a constant flow rate from (3) regardless of load pressure changes in the system downstream of (3), or in the inlet at (2) as long as pressure at (3) is greater than (1) by more than spring setting chosen and pump supply is in excess of demand. The valve's spool maintains a constant differential pressure across an external orifice, thereby regulating the hydraulic flow rate across this external orifice (see table for pressure ranges). When used with an orifice as described above, it functions as a restrictive type regulator, delivering pump flow through the external orifice. All ports may be fully pressurized.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

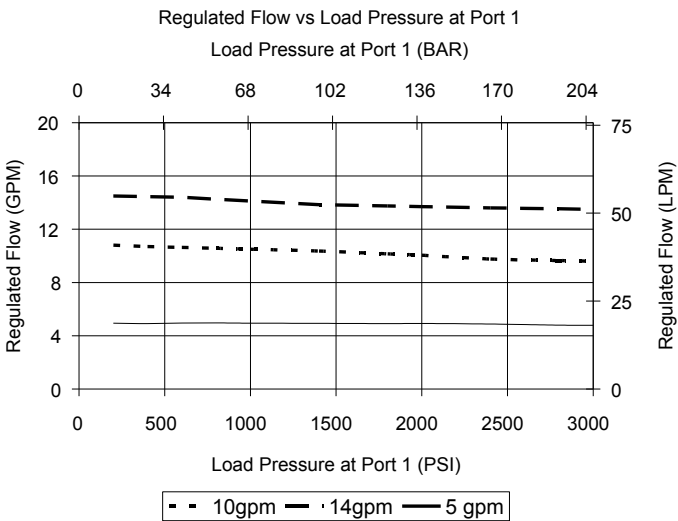
**HYDRAULIC SYMBOL**



Can be used as a logic element. Fixed setting pressure reducing valve. For adjustable setting see TR-PCD.

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	20 GPM (76 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Seat Ratio	Area of Pilot is equal to the area at Port (3)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.54 lbs (.24 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	70 ft-lbs (95 Nm)
Cavity	TECNORD 3WS
Cavity Form Tool (Finishing)	40500033
Seal Kit	21191306

**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.



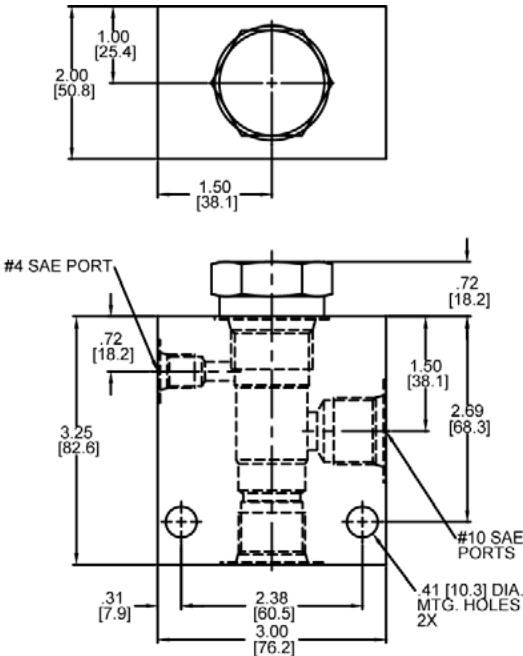
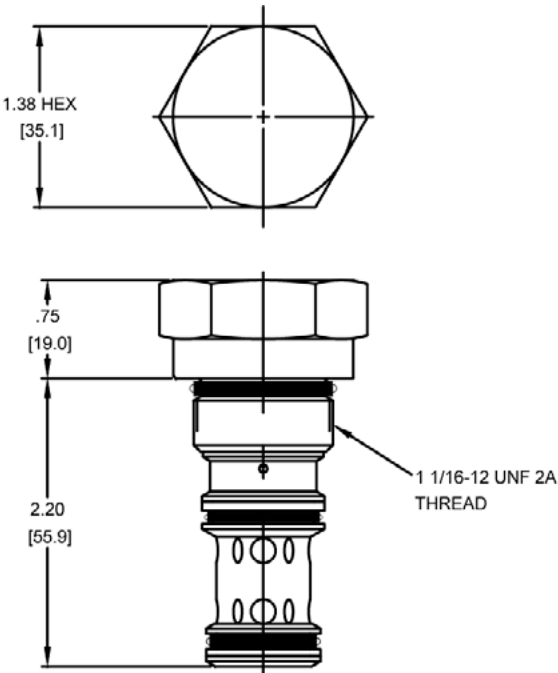
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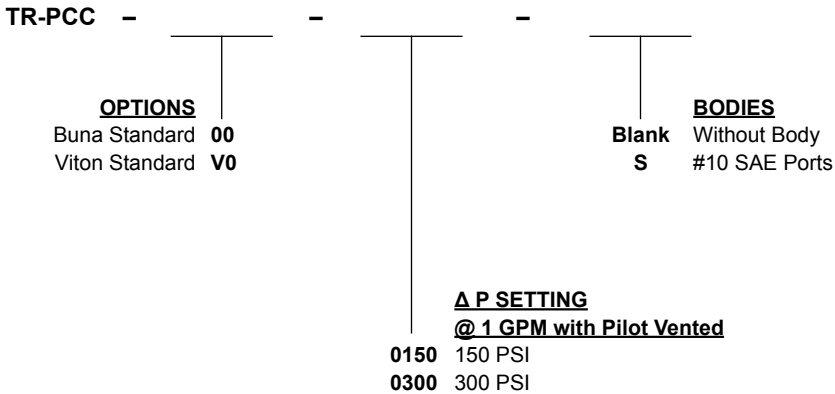


DIMENSIONS



Body Weight: 1.56 lbs (.70 kg)

ORDERING INFORMATION



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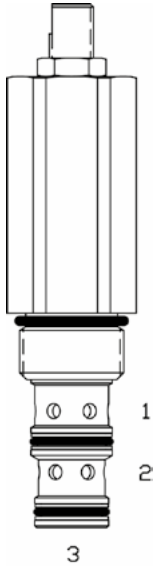


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**DF-PCE ADJUSTABLE PRESSURE COMPENSATING VALVE, BYPASS TYPE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, spring adjustable pressure compensating valve, bypass type.

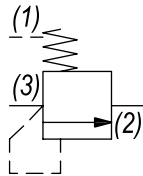
**OPERATION**

The DF-PCE with an external orifice in parallel with ports (3) and (1) maintains a constant flow rate across the external orifice, regardless of load pressure changes in the system upstream of (3), or in the bypass leg at (2) as long as pressure at (2) is greater than (1). The valve's spool maintains a constant differential pressure across an external orifice, thereby regulating the hydraulic flow rate across this external orifice (see table for pressure ranges). When used with an orifice as described above, it functions as a bypass type regulator, delivering pump flow through the external orifice.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**

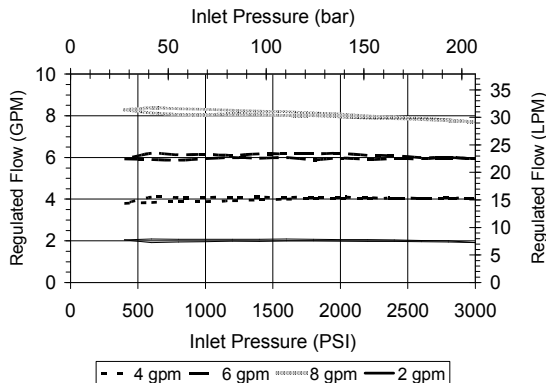


*Can be used as an adjustable logic element. Great as an adjustable pressure setting regulation device in brake, transmission & cooling systems, because the spring chamber is separately drained, the outlet can be used for lower pressure functions. For fixed version see DF-PCR-oP. For higher spring differential pressure ranges consult factory.*

**PERFORMANCE**

Actual Test Data (Cartridge Only)

300 PSI setting / Regulated Flow vs Inlet Pressure



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Seat Ratio	Area of Pilot is equal to the area at Port (3)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.52 lbs (.23 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 3W
Cavity Form Tool (Finishing)	40500001
Seal Kit	21191210

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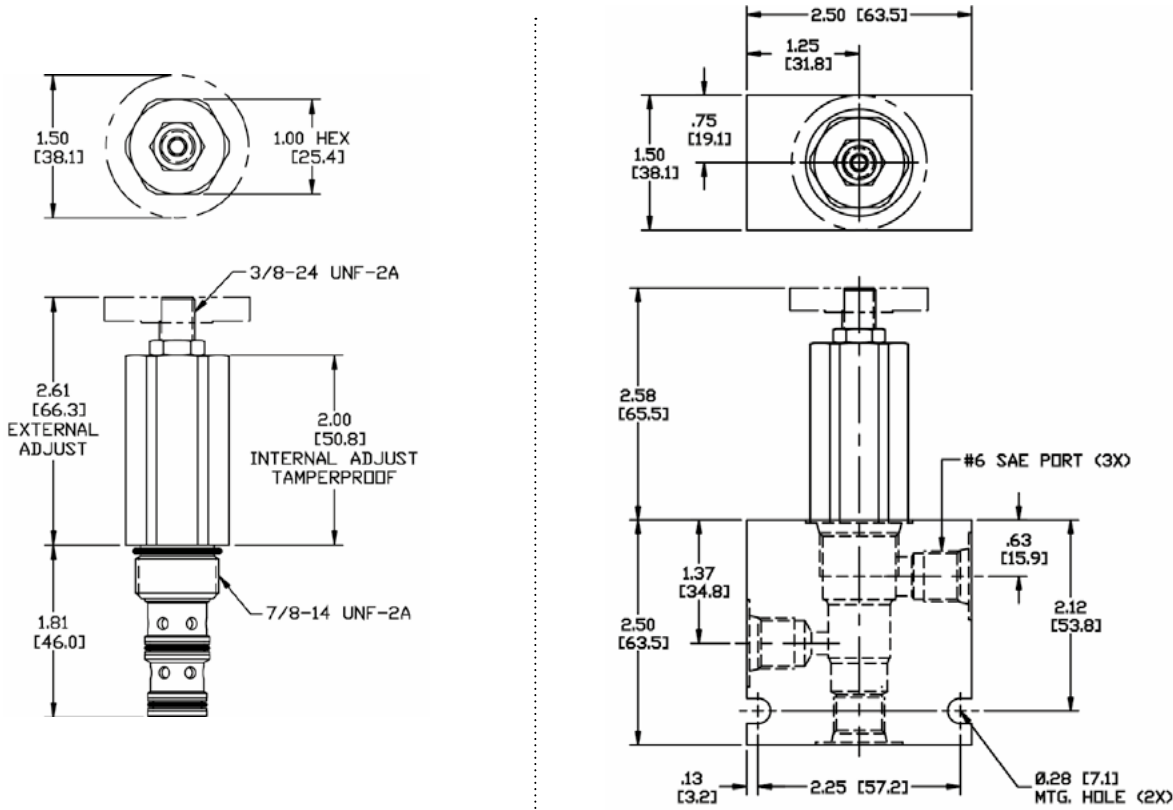


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DIMENSIONS



Body Weight: .76 lbs (.35 kg)

ORDERING INFORMATION

<p><b>DF-PCE</b> -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p>-</p> <p>-</p> <p>-</p> <p>-</p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 1/4" NPTF Ports</p> <p><b>S</b> #6 SAE Ports</p>
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**0300** **PRESSURE RANGE**  
100 - 300 PSI

Differential Pressure Across  
External Controlling Orifice

**Tamper Proof**  
Fill in 4 Digit Pressure Setting  
Example: 0200 - 200 PSI

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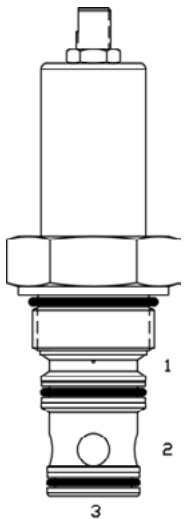


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**SL-PCE ADJUSTABLE PRESSURE COMPENSATING REGULATOR VALVE**



**DESCRIPTION**

16 size, 1 5/16-12 thread, "Super" series, pressure compensating regulator valve.

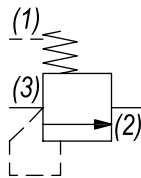
**OPERATION**

The SL-PCE with an external orifice in parallel with ports (3) and (1) maintains a constant flow rate across the external orifice, regardless of load pressure changes in the system upstream of (3), or in the bypass leg at (2) as long as pressure at (2) is less than (1). The valve's spool maintains a constant differential pressure across the external orifice, thereby regulating the hydraulic flow rate across the external orifice (see options table for pressure ranges). When used with an orifice as described above, it functions as a priority type regulator, delivering pump flow first to the external orifice, then bypassing excess to (2). All ports may be fully pressurized.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

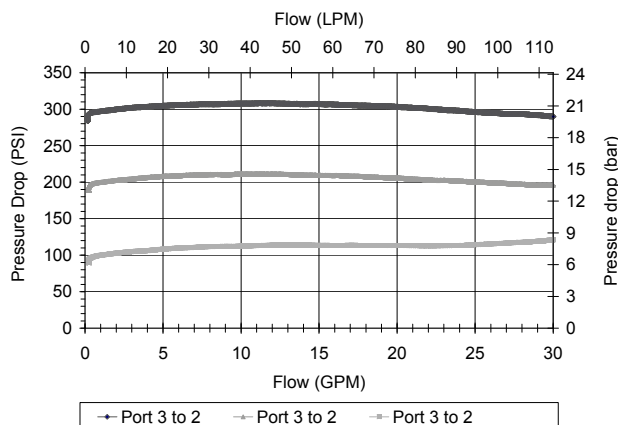
**HYDRAULIC SYMBOL**



*Can be used as an adjustable logic element. Great as an adjustable pressure setting regulation device in brake, transmission & cooling systems. Because the spring chamber is separately drained, the outlet flow can be used for lower pressure functions. For fixed version see SL-PCA-oP. For higher spring differential pressure ranges consult factory.*

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	40 GPM (151 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Seat Ratio	Area of Pilot is equal to the area at Port (3)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	1.15 lbs (.52 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	90 ft-lbs (122 Nm)
Cavity	SUPER 3WS
Cavity Form Tool (Finishing)	40500021
Seal Kit	21191406

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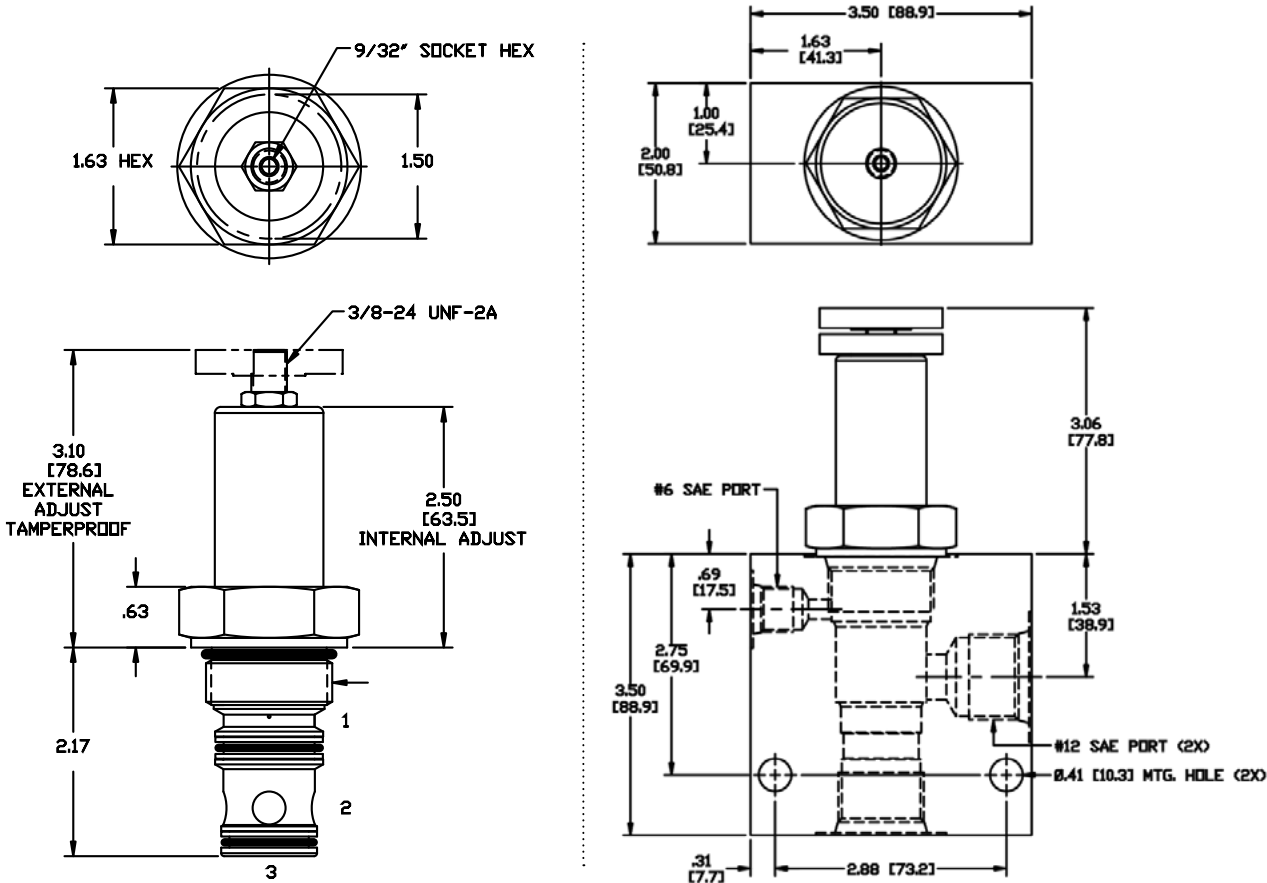


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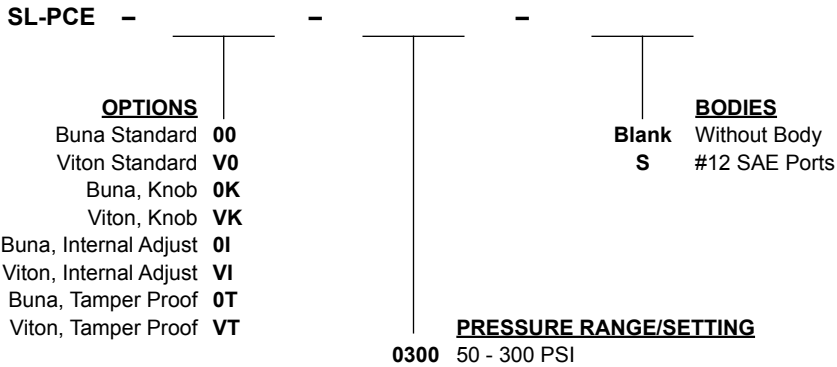
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DIMENSIONS



Body Weight: 1.89 lbs (.86 kg)

ORDERING INFORMATION



**Tamper Proof**  
Fill in 4 Digit Pressure Setting  
Example: 0200 - 200 PSI

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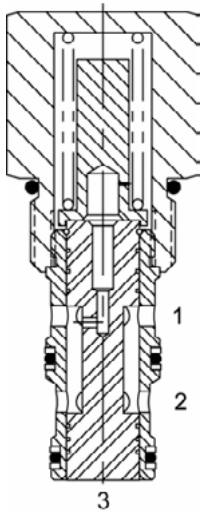


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**DF-PCS PRESSURE COMPENSATING VALVE, RESTRICTIVE TYPE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pressure compensating valve, restrictive type.

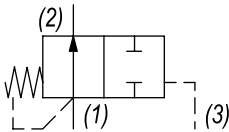
**OPERATION**

The DF-PCS allows pressure compensated flow from (1) to (2) regulated by the pressure present at (3). The spring chamber is constantly vented at (1).

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

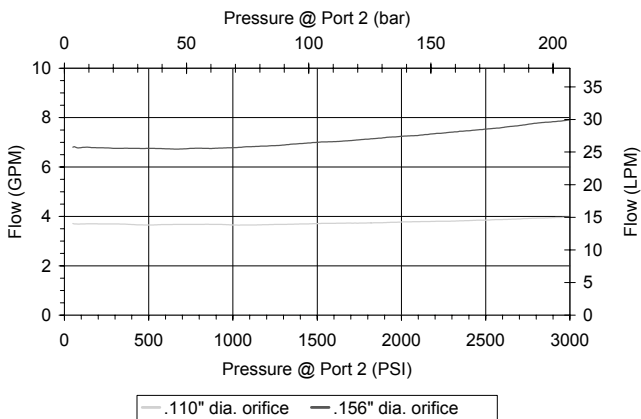
**HYDRAULIC SYMBOL**



Pressure compensator for flow control, typically used with an external orifice inline with port (1). Port (3) should sense upstream pressure of orifice.

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min) per path
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.35 lbs (.16 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 3W
Cavity Form Tool (Finishing)	40500001
Seal Kit	21191210

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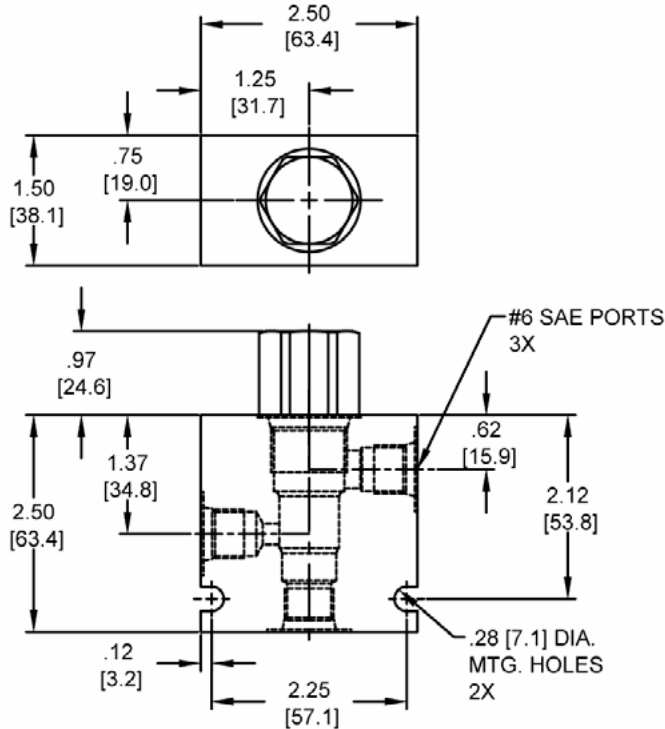
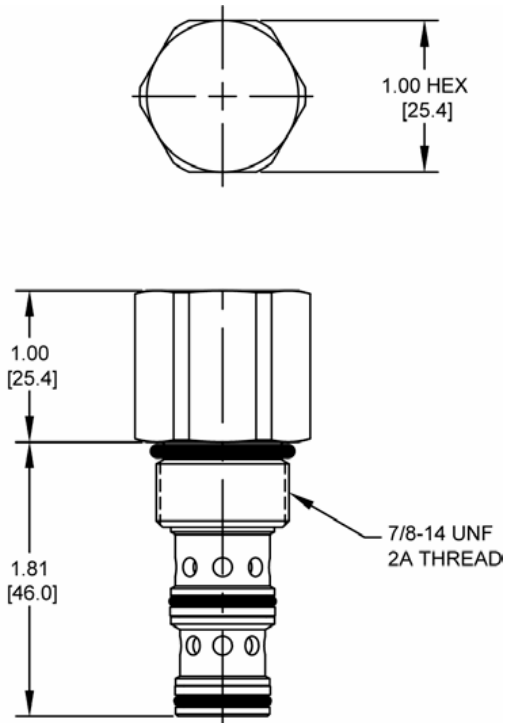


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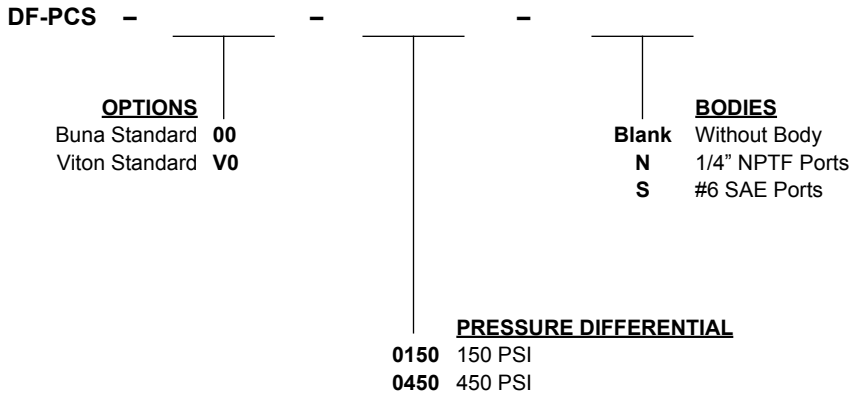
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**DIMENSIONS**



Body Weight: .76 lbs (.35 kg)

**ORDERING INFORMATION**



Differential Pressure Across External Controlling Orifice

W 9 / 2016

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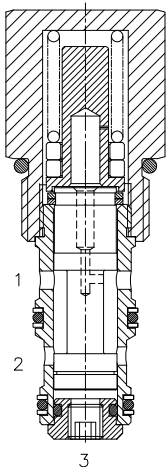


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**DF-TCS PRESSURE COMPENSATING VALVE, RESTRICTIVE TYPE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pressure compensating valve, restrictive type.

**OPERATION**

The DF-TCS allows pressure compensated flow from (1) to (2) regulated the pressure present at (3). Pressure differential between (1) and (3) is fixed at 8/24 bar (according to the pressure settings). These are minimum values increasing with the flow because of the pressure drop through the valve (see graph).

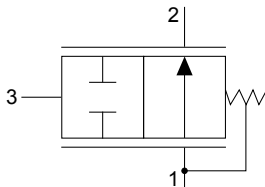
**FEATURES**

- Hardened parts for long life.
- Industry common cavity.



*Pressure compensator for 2 way flow control, typically used with an external orifice inline with port (3). Port (1) should sense upstream pressure of orifice.*

**HYDRAULIC SYMBOL**



**PERFORMANCE**

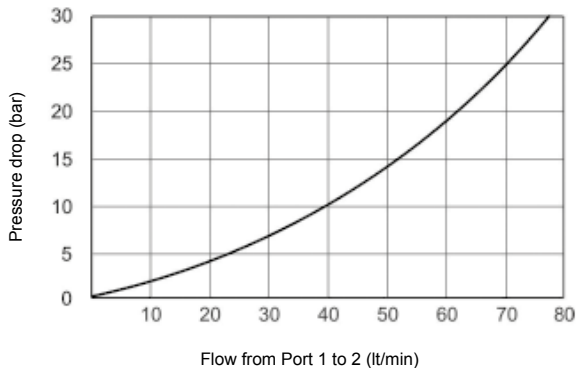
Actual Test Data (Cartridge Only)

**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Typical Internal Leakage (150 SSU)	35 ml/min @ 250 bar
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.35 lbs (.16 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	33 ft-lbs (45 Nm)
Cavity	DELTA 3W
Cavity Tools Kit (form tool, reamer, tap)	40500001
Seal Kit	210902026

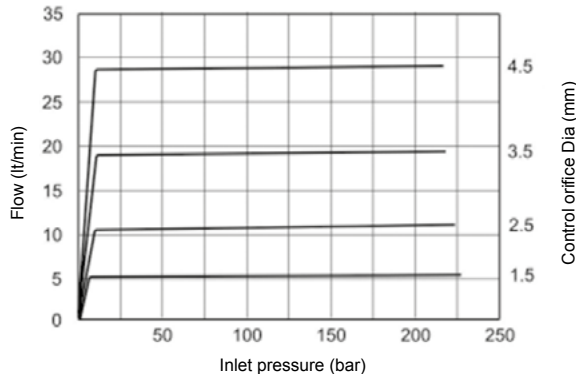
**Pressure Drop (bar) vs. Flow (lt/min)**

*For various pressure compensator settings (bar)*



**DF-TCS 008 - Flow (lt/min) vs. inlet pressure (bar)**

*For various orifice diameters (mm)*



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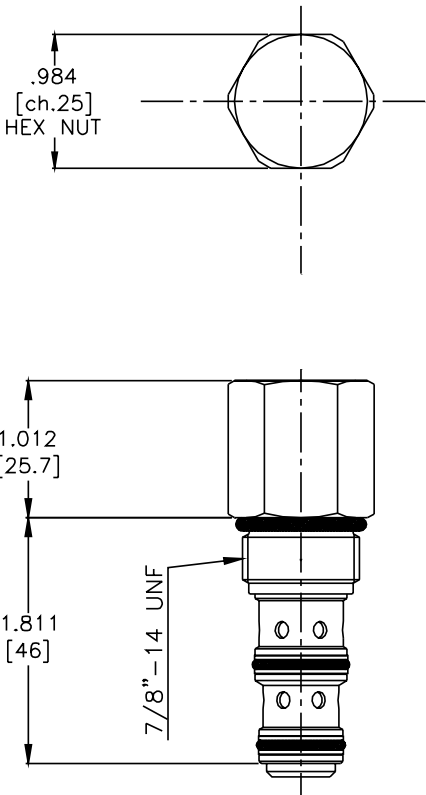
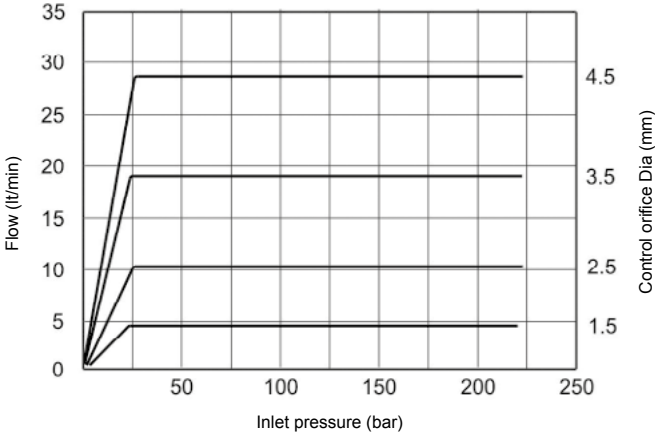


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**DIMENSIONS**

**DF-TCS 024 - Flow (lt/min) vs. inlet pressure (bar)**  
 For various orifice diameters (mm)



(for bodies style and sizes see section "Accessories")

**ORDERING INFORMATION**

**DF-TCS** - - -

<p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p>	<p><b>BODIES</b></p> <p><b>Blank</b> Without Body</p> <p><b>N</b> 3/8" BSP Ports</p> <p><b>S</b> #6 SAE Ports</p>
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**PRESSURE SETTINGS**

**008** 8 bar (115 PSI)

**024** 24 bar (340 PSI)

Differential Pressure Across  
External Controlling Orifice

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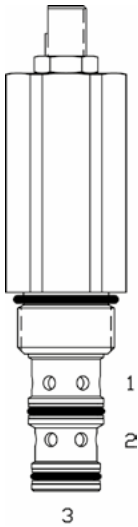


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**DF-PCT ADJUSTABLE PRESSURE COMPENSATING VALVE, RESTRICTIVE TYPE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pressure compensating valve, restrictive type.

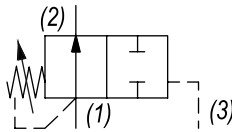
**OPERATION**

The DF-PCT with an external orifice in front of port (1) allows pressure compensated flow from (1) to (2), regulated by the pressure present at (3). The spring chamber is constantly vented at (1).

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

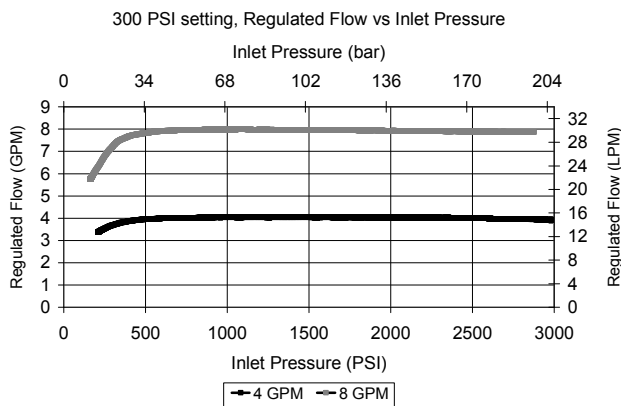
**HYDRAULIC SYMBOL**



Can be used as an adjustable logic element. For fixed version see DF-PCS. For higher spring differential pressure ranges consult factory.

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min) per path
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.60 lbs (.27 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 3W
Cavity Form Tool (Finishing)	40500001
Seal Kit	21191210

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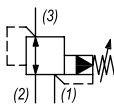


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**PRESSURE REDUCING/RELIEVING VALVES**

	GPM	PSI	LPM	BAR	CAVITY	MODEL	PAGE
	10	3000	38	207	7/8-14	<b>DF-PRP</b>	MP86
	20	3000	76	207	1 5/16-12	<b>SK-PRP</b>	MP88
	10	4000	38	276	7/8-14	<b>DF-PWP</b>	MP90

**TYPICAL SCHEMATIC**

Typical application for the PRP and PWP is multi-system pressure setting. System relief pressure must be greater than reduce pressure setting.

W 9 / 2016

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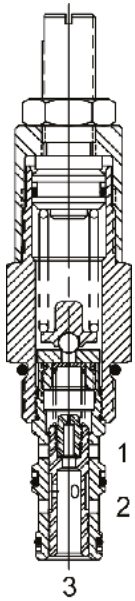


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**DF-PRP PILOT OPERATED, PRESSURE REDUCING, RELIEVING VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pilot operated, pressure reducing, relieving valve.

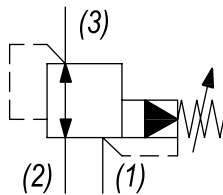
**OPERATION**

The DF-PRP in its steady state, allows flow to pass from (2) to (3), with the spring chamber constantly drained at (1). When a pre-determined pressure is reached at (3), the spool shifts to restrict input flow at (2), thereby reducing (restricting) flow. If valve and pressure at port (3) exceeds setting, spool shift to open passage at port (1), thereby regulating pressure at port (3) by relieving excess flow. The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

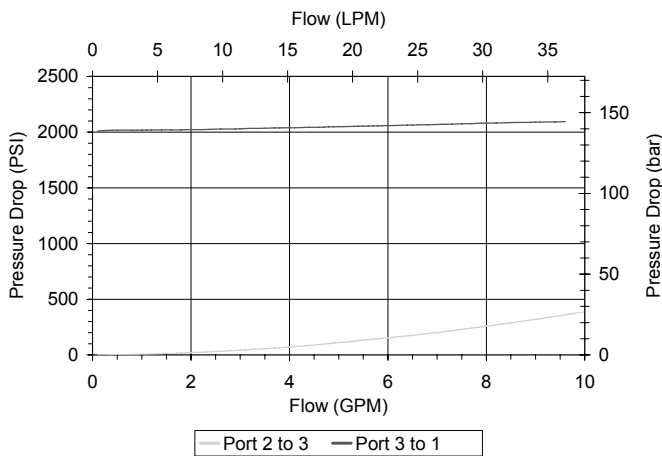
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



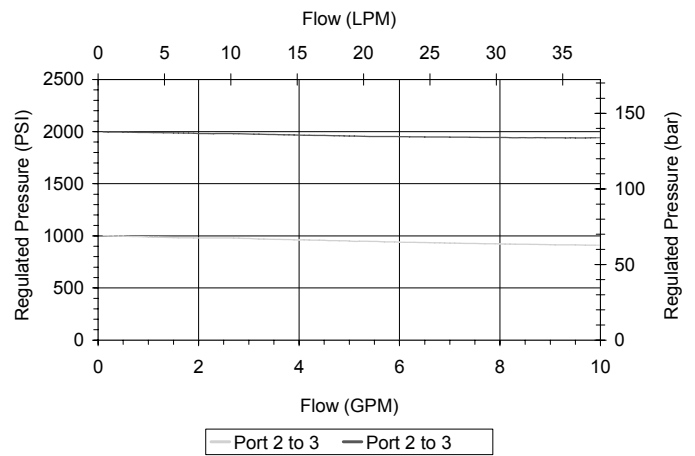
**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	3000 PSI (207 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.59 lbs (.27 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 3W
Cavity Form Tool (Finishing)	40500001
Seal Kit	21191206



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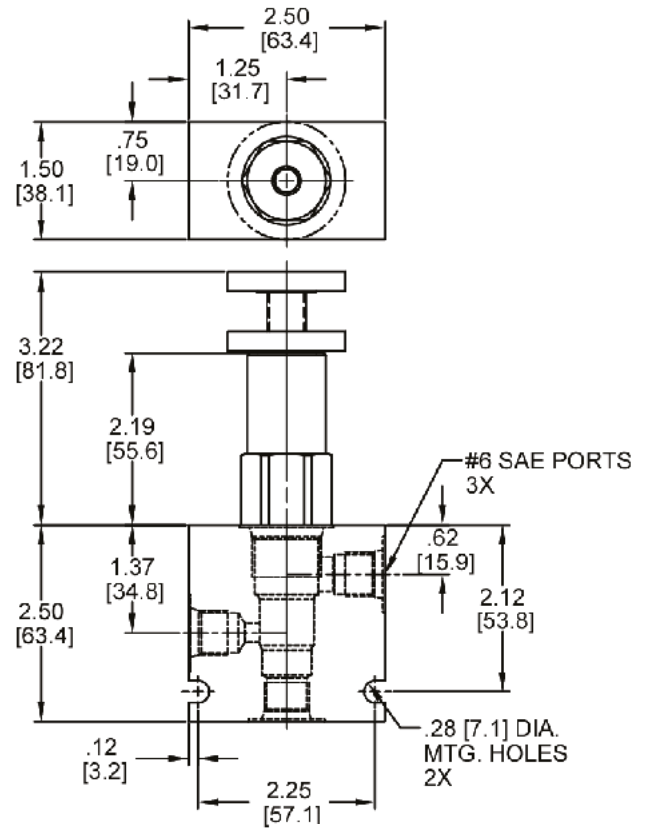
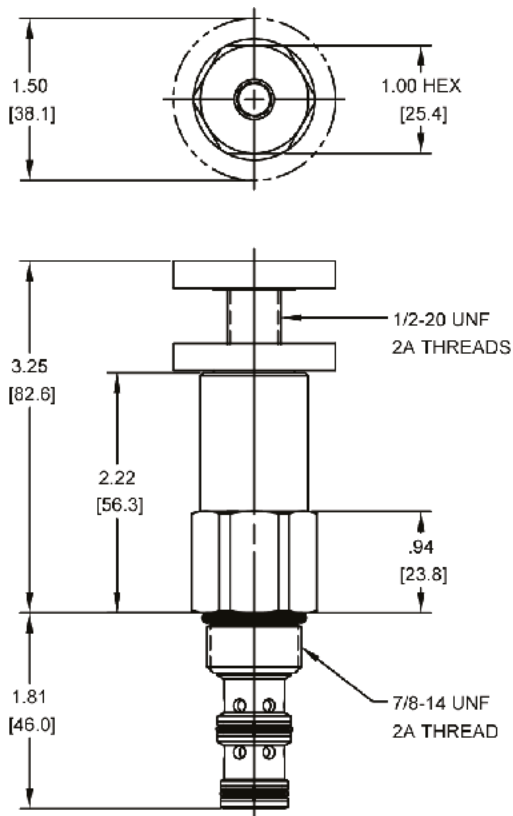


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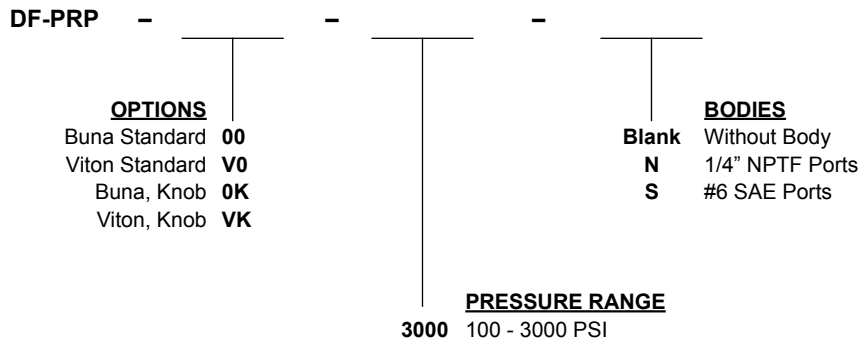
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**DIMENSIONS**



Body Weight: .76 lbs (.35 kg)

**ORDERING INFORMATION**



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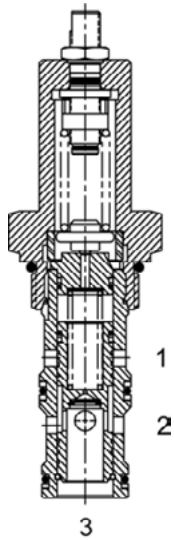


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**SK-PRP PILOT OPERATED PRESSURE REDUCING, RELIEVING VALVE**



**DESCRIPTION**

16 size, 1 5/16-12 thread, "Super" series, pilot operated pressure reducing, relieving valve.

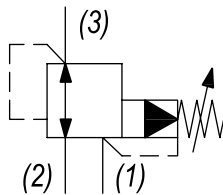
**OPERATION**

The SK-PRP in its steady state, allows flow to pass from (2) to (3), with the spring chamber constantly drained at (1). When a pre-determined pressure is reached at (3), the spool shifts to restrict input flow at (2), thereby reducing (restricting) flow. If the valve and pressure at port (3) exceeds setting, spool shifts to open passage at port (1), thereby regulating pressure at (3) by relieving excess flow. The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

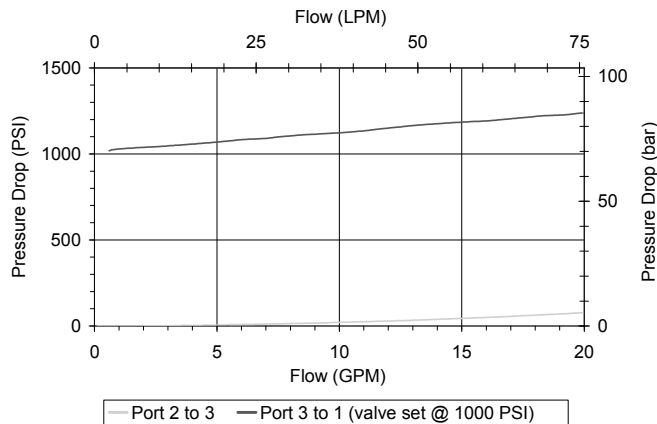
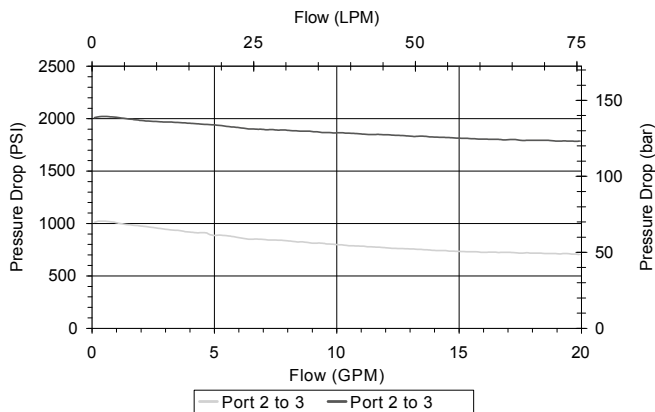
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	20 GPM (76 LPM)
Rated Operating Pressure	500-3000 PSI (34-207 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	1.28 lbs (.58 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	90 ft-lbs (122 Nm)
Cavity	SUPER 3W
Cavity Form Tool (Finishing)	40500018
Seal Kit	21191406

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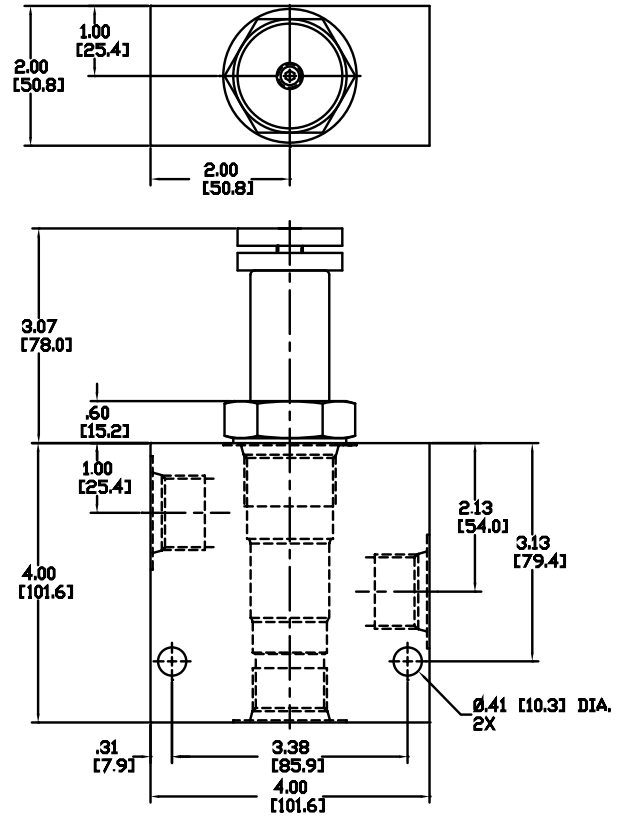
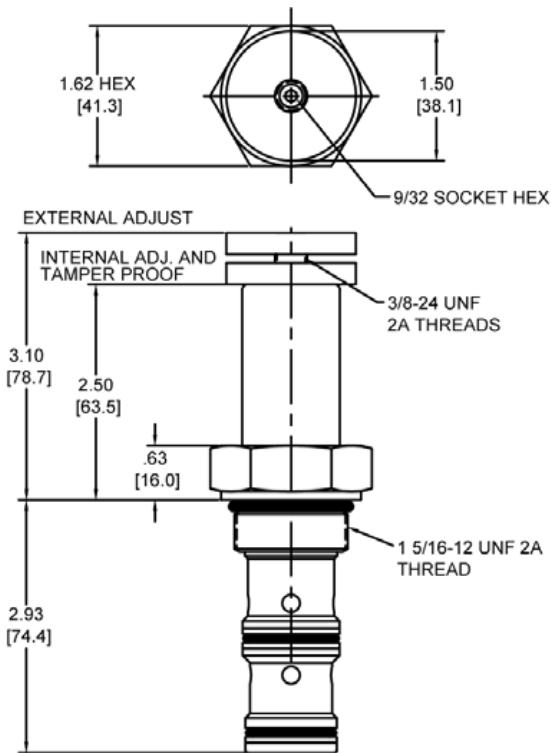
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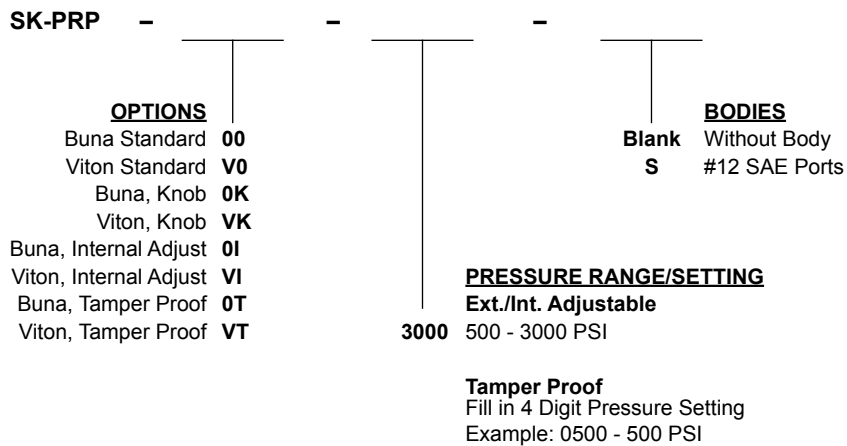


**DIMENSIONS**



Body Weight: 2.46 lbs (1.11 kg)

**ORDERING INFORMATION**



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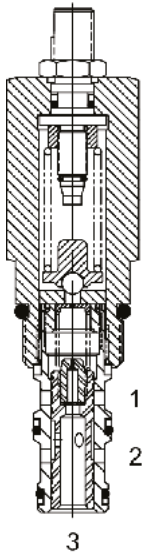


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**DF-PWP PILOT OPERATED PRESSURE REDUCING, RELIEVING VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pilot operated pressure reducing, relieving valve.

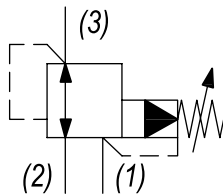
**OPERATION**

The DF-PWP in its steady state, allows flow to pass from (2) to (3), with the spring chamber constantly drained at (1). When a pre-determined pressure is reached at (3), the spool shifts to restrict input flow at (2), thereby reducing (restricting) flow. If valve and pressure at port (3) exceeds setting, spool shifts to open passage at port (1), thereby regulating pressure at port (3) by relieving excess flow. The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**

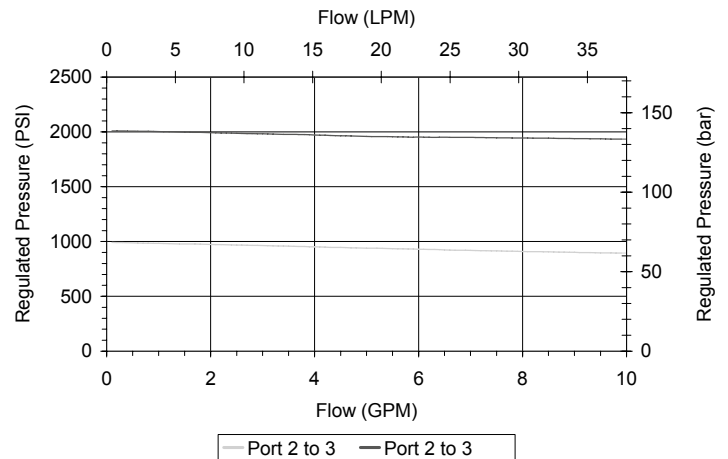
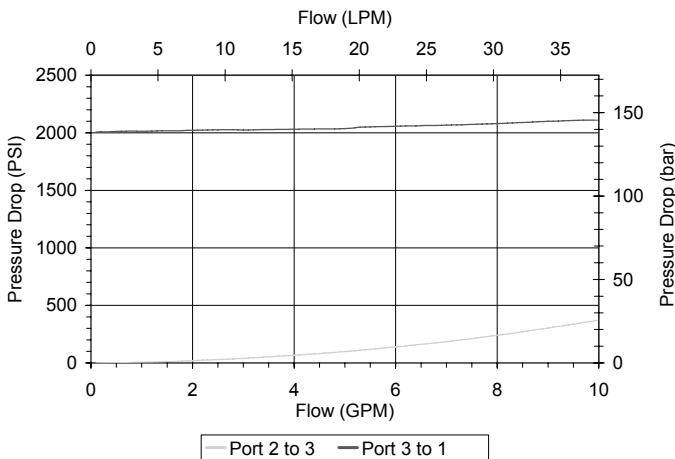


**PERFORMANCE**

Actual Test Data (Cartridge Only)

**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.57 lbs (.26 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 3W
Cavity Form Tool (Finishing)	40500001
Seal Kit	21191206



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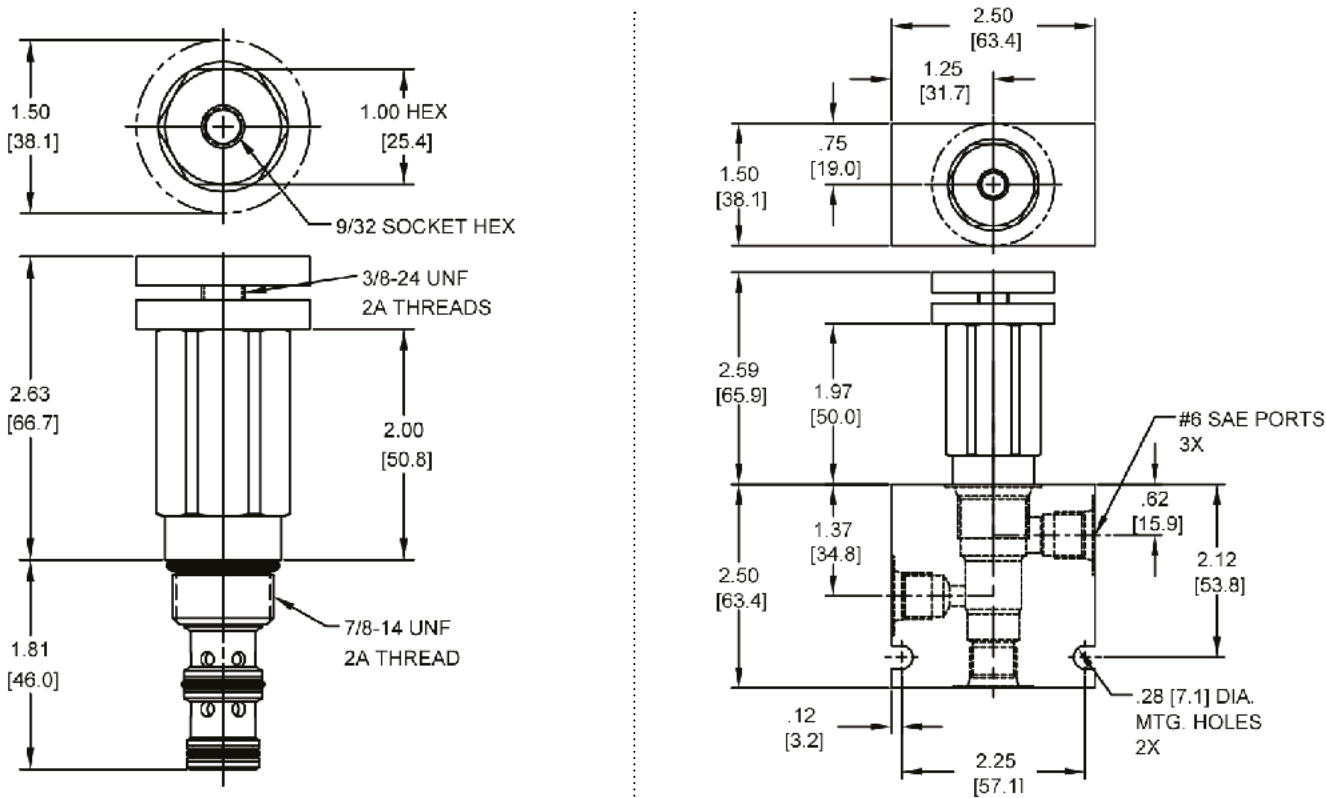


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DIMENSIONS



Body Weight: .76 lbs (.35 kg)

ORDERING INFORMATION

<p><b>DF-PWP</b> - - -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>4000</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 1/4" NPTF Ports</p> <p><b>S</b> #6 SAE Ports</p> <p><b>PRESSURE RANGE/SETTING</b></p> <p><b>Ext./Int. Adjustable</b></p> <p>100 - 4000 PSI</p> <p><b>Tamper Proof</b></p> <p>Fill in 4 Digit Pressure Setting</p> <p>Example: 0500 - 500 PSI</p>
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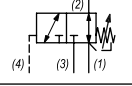
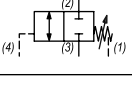
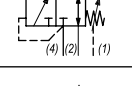

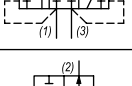
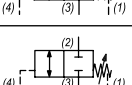
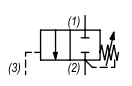
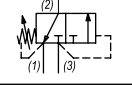
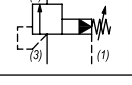
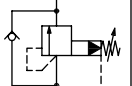
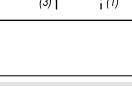


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SEQUENCE VALVES

	GPM	PSI	LPM	BAR	CAVITY	MODEL	PAGE
	10	3000	38	207	7/8-14	DG-PSA	MP94
	10	3000	38	207	7/8-14	DG-PSC	MP96
	10	3000	38	207	7/8-14	DG-PSI	MP98
	10	3000	38	207	7/8-14	DG-PSO	MP100
	12	3000	45	207	7/8-14	DG-PSS	MP102
	10	3000	38	207	7/8-14	DG-PTC	MP104
	10	3000	38	207	7/8-14	DG-PTO	MP106
	10	3000	38	207	7/8-14	DF-PWE	MP108
	8	3000	30	207	7/8-14	DF-PWI	MP110
	40	3500	151	241	1 5/16-12	SL-PWA	MP112
	40	3500	151	241	1 5/16-12	SL-PWB	MP114

TYPICAL SCHEMATIC

Typical application for the PSO or PSC sequence valve is for a high/low application like a log splitter where the spring chamber can be vented externally (spring chamber pressure directly adds to the pilot pressure required to shift the valve). Typical application for the PWI sequence valve is for controlling the lip on a dock leveler. Typical application for the PWE sequence valve is for a high/low pump in a positive traction circuit where the valve automatically shifts to low speed high torque mode. Typical application for the PSI sequence valve is when starting against load where the spring chamber can be vented externally (spring chamber pressure directly adds to the pilot pressure required to shift the valve). Typical application for the PSA sequence valve is a hydraulic brake release of a spring loaded single acting cylinder. Typical application for the PSS hot oil shuttle is to divert fluid from the low pressure side of a closed loop hydrostatic transmission for cooling or filtering.

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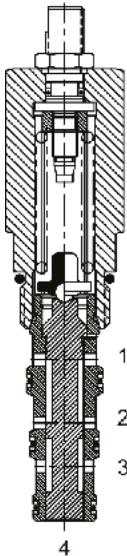


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**DG-PSA SEQUENCE VALVE, 4 WAY NORMALLY CLOSED, EXTERNAL PILOT**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, 4 way external pilot sequence valve.

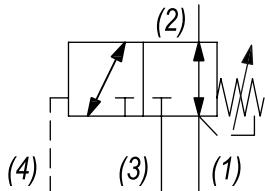
**OPERATION**

The DG-PSA in neutral (un-piloted), allows flow between (1) and (2) bidirectionally, while blocking at (3). The spring chamber is constantly vented at (1). On attainment of a predetermined pressure at (4), the cartridge shifts to close (1) to (2), while opening (2) to (3). Note that the backpressure value at (1) must be added to the selected pressure setting to determine pilot pressure necessary to open valve.

**FEATURES**

- Optional spring ranges to 1500 PSI (103 bar).
- Hardened parts for long life.
- Industry common cavity.

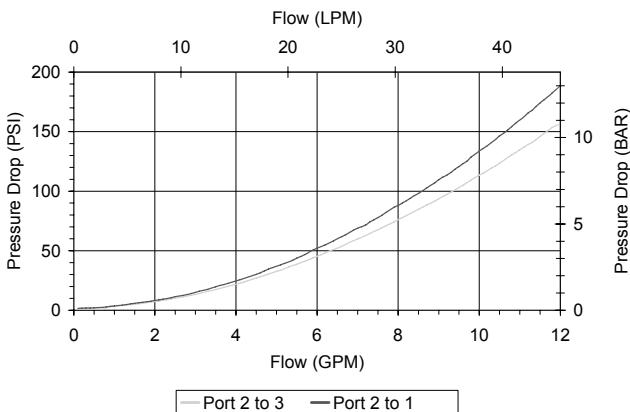
**HYDRAULIC SYMBOL**



Orifice .030 to .060 diameter recommended beneath port (4).

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	3000 PSI (207 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.63 lbs (.28 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Form Tool (Finishing)	40500002
Seal Kit	21191214

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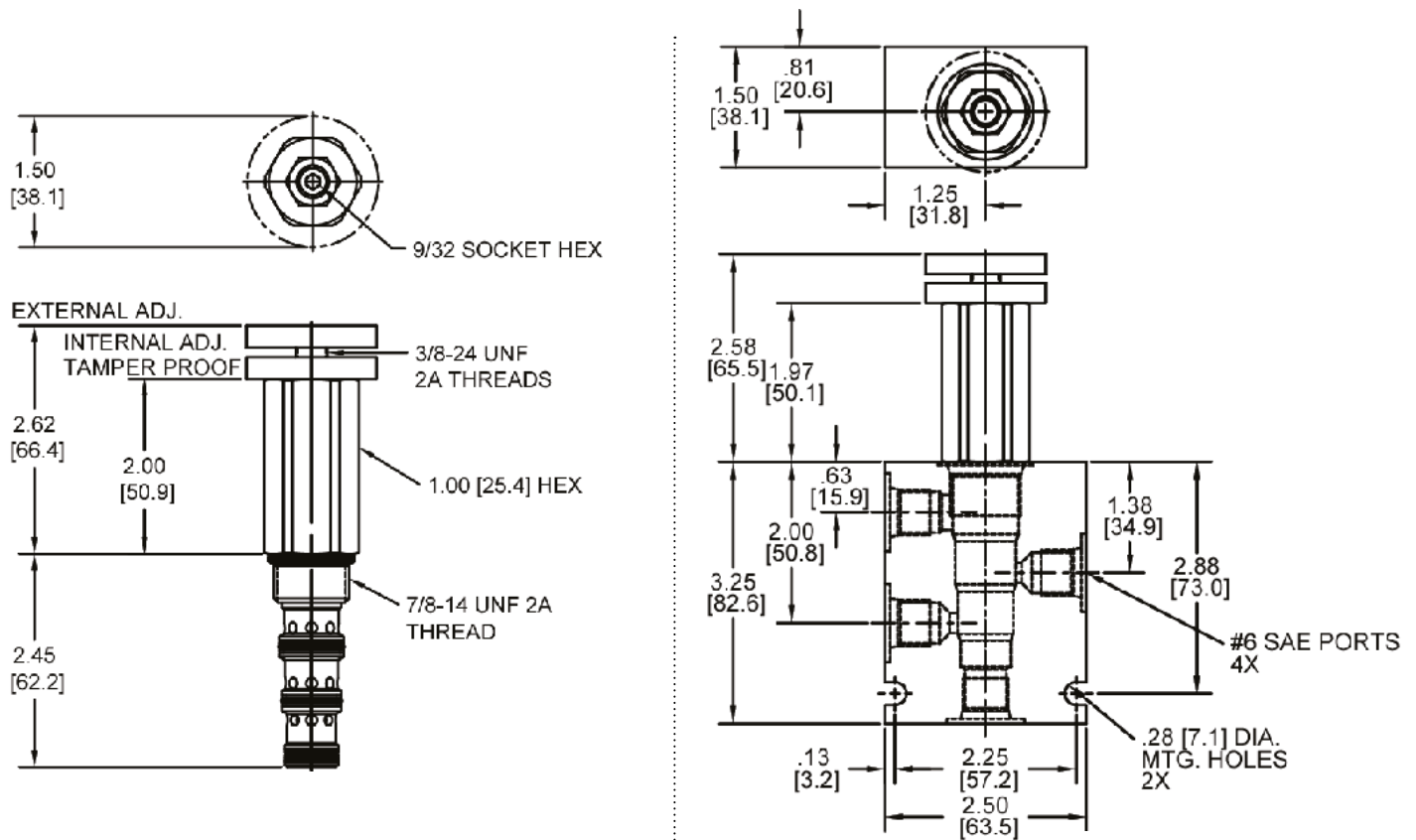


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**DIMENSIONS**



Body Weight: .99 lbs (.45 kg)

**ORDERING INFORMATION**

<p><b>DG-PSA</b> - - -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 1/4" NPTF Ports</p> <p><b>S</b> #6 SAE Ports</p>
<p><b>PRESSURE RANGE</b></p> <p><b>0425</b> 50 - 425 PSI</p> <p><b>1500</b> 425 - 1500 PSI</p>	

**Tamper Proof**  
 Fill in 4 Digit Pressure Setting  
 Example: 0500 - 500 PSI

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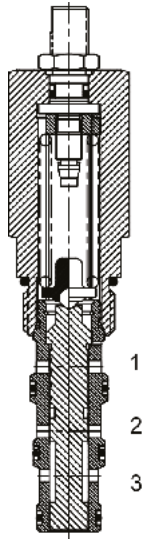


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**DG-PSC SEQUENCE VALVE, 2 WAY NORMALLY CLOSED, EXTERNAL PILOT**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, 2 way normally closed sequence valve, external pilot.

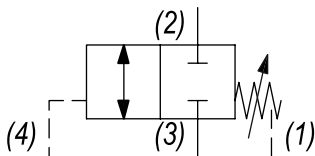
**OPERATION**

The DG-PSC in neutral (unpiloted), blocks flow between (3) and (2). The spring chamber is constantly vented at (1). On attainment of a predetermined pressure at (4), the cartridge shifts to allow flow from (3) to (2). Note that the backpressure value at (1) must be added to the selected pressure setting to determine pilot pressure.

**FEATURES**

- Optional spring ranges to 1500 PSI (103 bar).
- Hardened parts for long life.
- Industry common cavity.

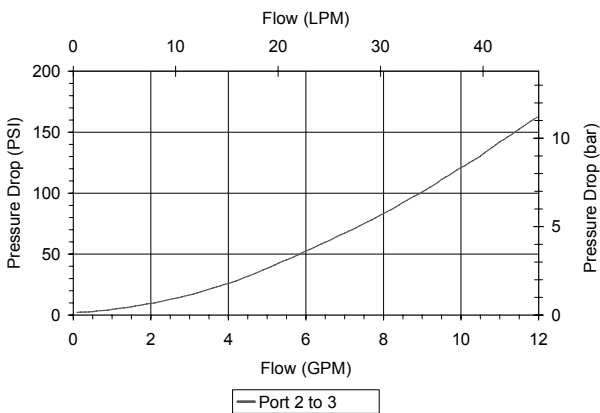
**HYDRAULIC SYMBOL**



Orifice .030 to .060 diameter recommended beneath port (4).

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	3000 PSI (207 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.63 lbs (.28 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Form Tool (Finishing)	40500002
Seal Kit	21191214

**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.



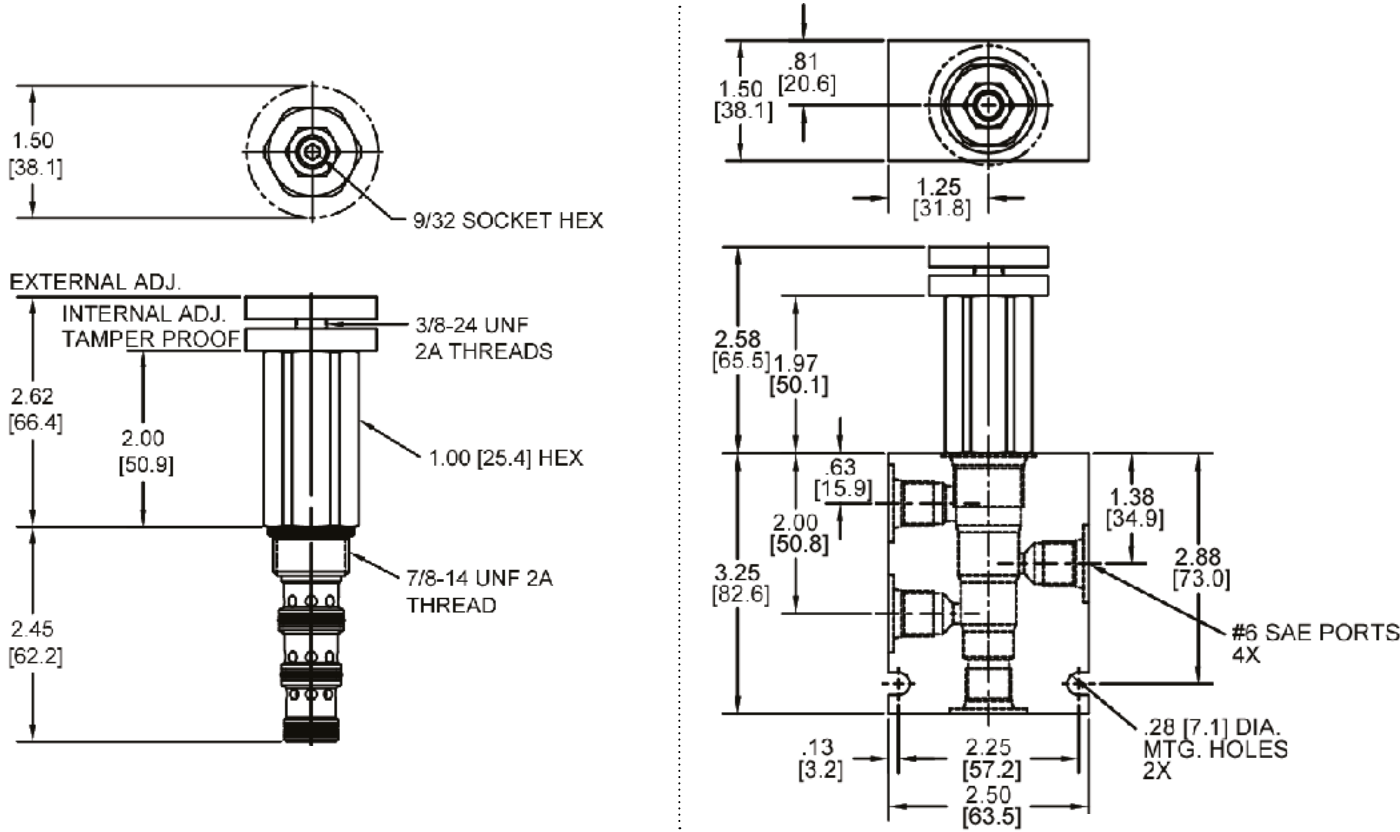
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**DIMENSIONS**



Body Weight: .99 lbs (.45 kg)

**ORDERING INFORMATION**

<p><b>DG-PSC</b> - - - -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 1/4" NPTF Ports</p> <p><b>S</b> #6 SAE Ports</p>
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**PRESSURE RANGE**

**0425** 50 - 425 PSI

**1500** 425 - 1500 PSI

**Tamper Proof**  
 Fill in 4 Digit Pressure Setting  
 Example: 0500 - 500 PSI

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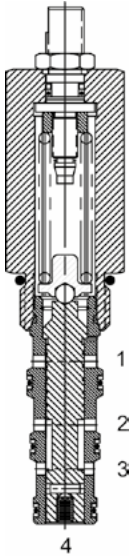


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**DG-PSI SEQUENCE VALVE, 3 WAY NORMALLY OPEN, INTERNAL PILOT**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, 3 way normally open internal pilot sequence valve.

**OPERATION**

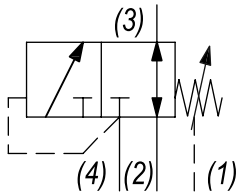
The DG-PSI in neutral (un-piloted), allows flow between (3) and (2) bidirectional, while blocking at (4). The spring chamber is constantly vented at (1). On attainment of a predetermined pressure at (4), the cartridge shifts to close (3) to (2), while opening (4) to (3).

Note: that the backpressure value at (1) must be added to the selected pressure setting to determine pilot pressure necessary to open valve.

**FEATURES**

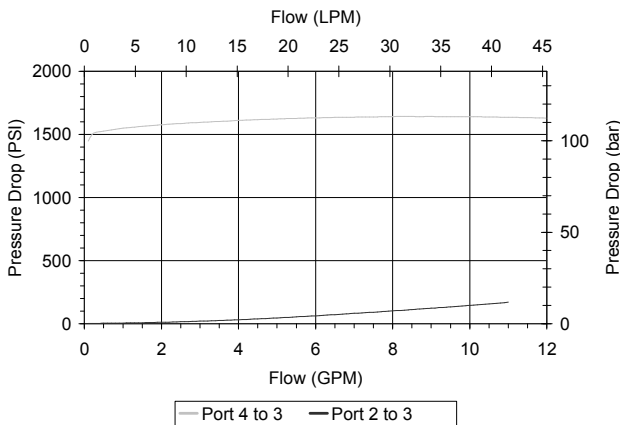
- Optional spring ranges to 1500 PSI (103 bar).
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LTR/M)
Rated Operating Pressure	3000 PSI (207 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.63 lbs (.28 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Form Tool (Finishing)	40500002
Seal Kit	21191214

**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.

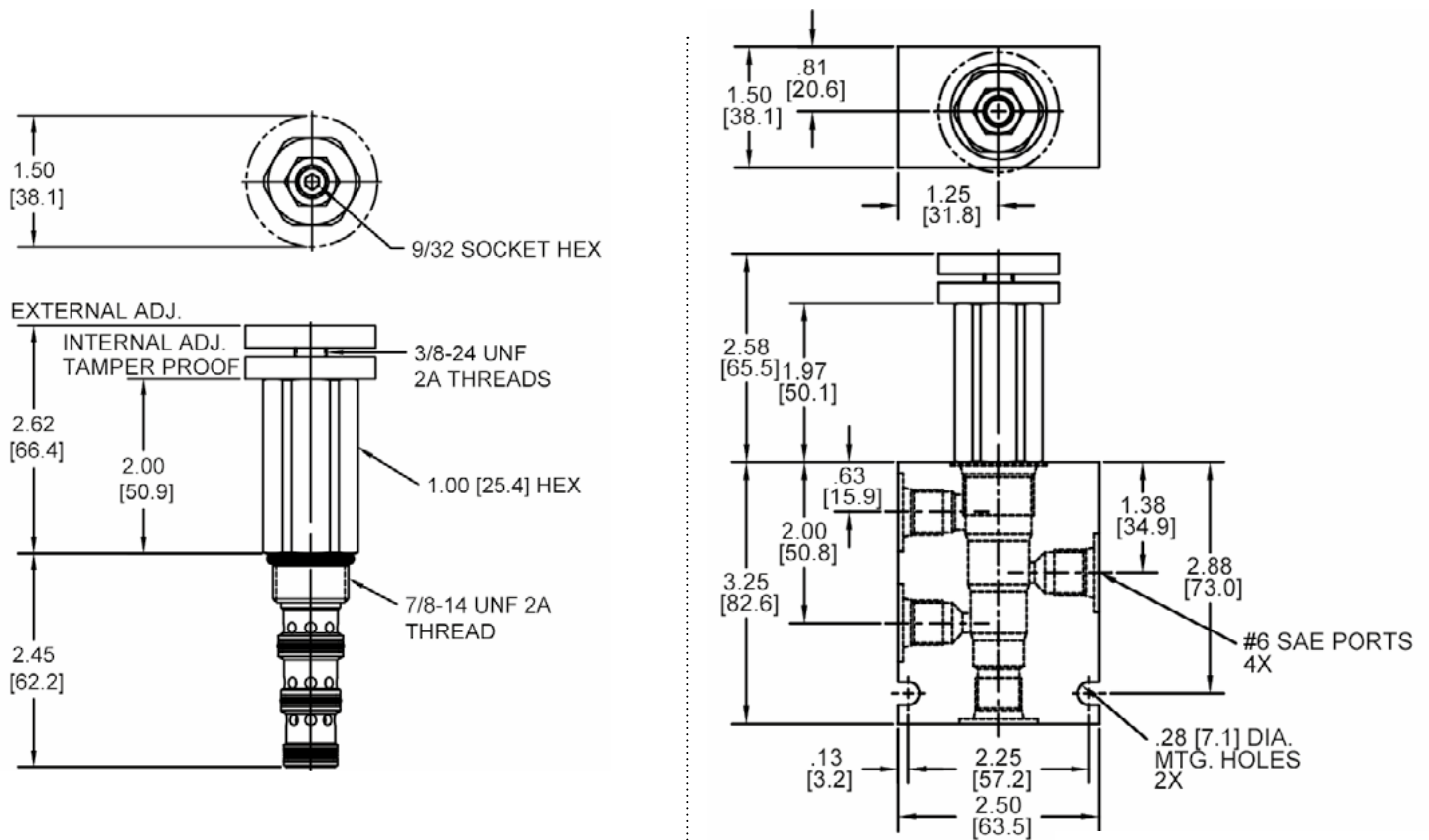


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**DIMENSIONS**



Body Weight: .99 lbs (.45 kg)

**ORDERING INFORMATION**

<p><b>DG-PSI</b> - - -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 1/4" NPTF Ports</p> <p><b>S</b> #6 SAE Ports</p>
<p><b>PRESSURE RANGE</b></p> <p><b>0425</b> 50 - 425 PSI</p> <p><b>1500</b> 425 - 1500 PSI</p>	

**Tamper Proof**  
Fill in 4 Digit Pressure Setting  
Example: 0500 - 500 PSI

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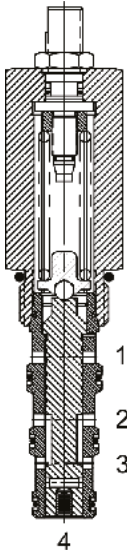


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**DG-PSO SEQUENCE VALVE, 2 WAY NORMALLY OPEN, EXTERNAL PILOT**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, 2 way normally open sequence valve, external pilot.

**OPERATION**

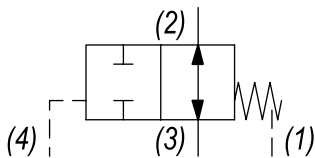
The DG-PSO in neutral (un-piloted), allows flow between (3) and (2) bi-directionally. The spring chamber is constantly vented at (1). On attainment of a predetermined pressure at (4), the cartridge shifts to block flow from (3) to (2).

Note: that the backpressure value at (1) must be added to the selected pressure setting to determine pilot pressure necessary to close valve.

**FEATURES**

- Optional spring ranges to 1500 PSI (103 bar).
- Hardened parts for long life.
- Industry common cavity.

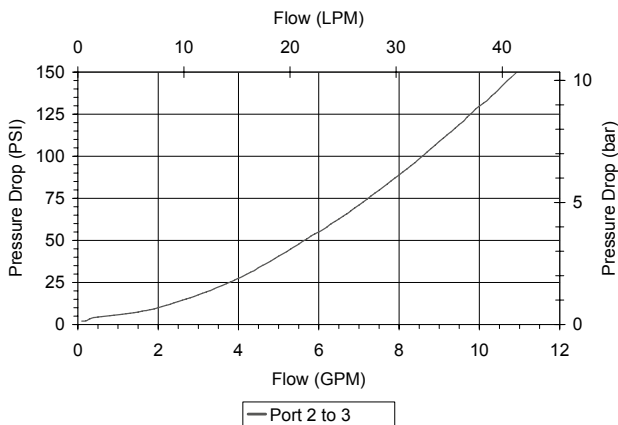
**HYDRAULIC SYMBOL**



Orifice .030 to .060 diameter recommended beneath port (4).

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LTR/M)
Rated Operating Pressure	3000 PSI (207 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.62 lbs (.28 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Form Tool (Finishing)	40500002
Seal Kit	21191214

**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.

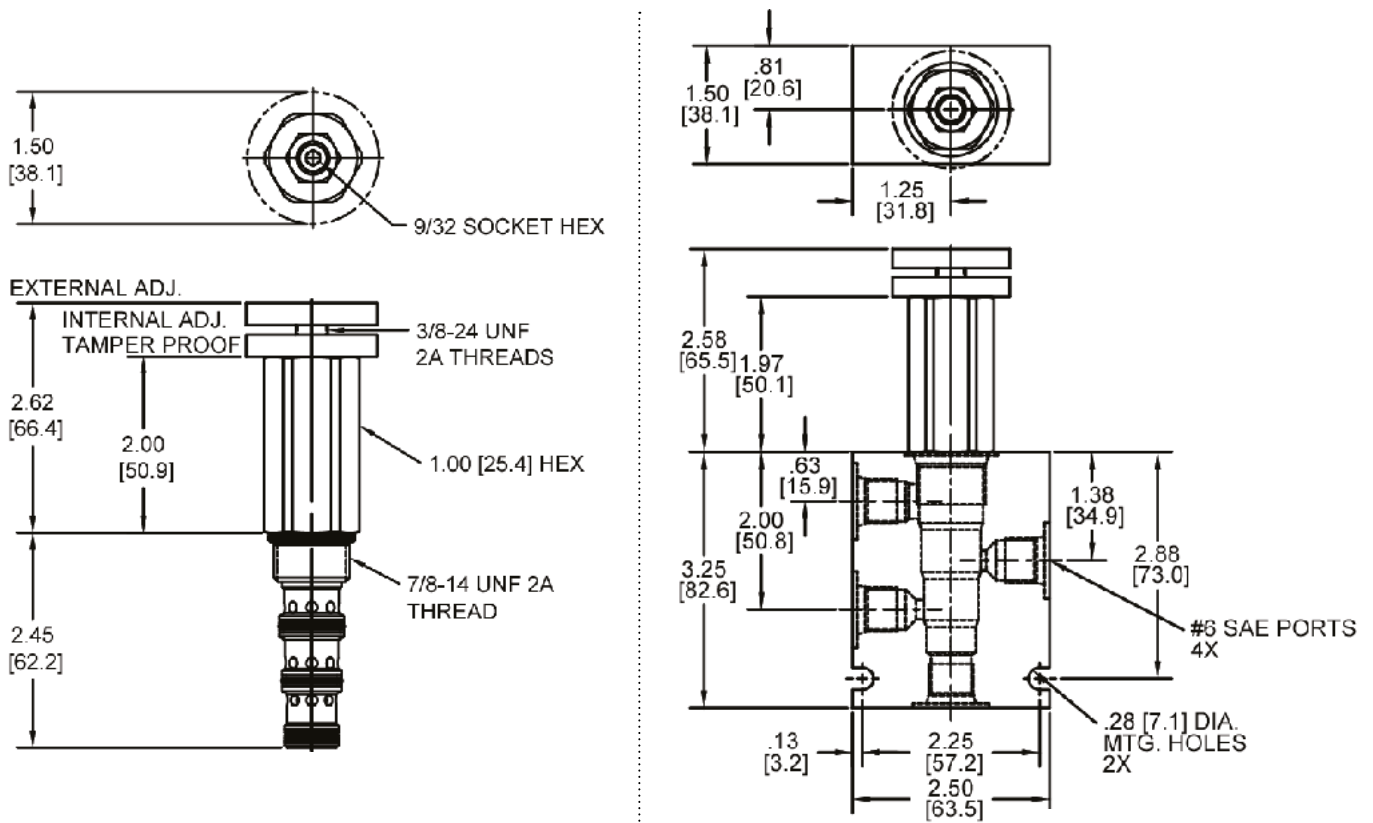


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**DIMENSIONS**



Body Weight: .99 lbs (.45 kg)

**ORDERING INFORMATION**

<p><b>DG-PSO</b> - - - -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 1/4" NPTF Ports</p> <p><b>S</b> #6 SAE Ports</p>
<p><b>PRESSURE RANGE</b></p> <p><b>0425</b> 50 - 425 PSI</p> <p><b>1500</b> 425 - 1500 PSI</p>	

**Tamper Proof**  
 Fill in 4 Digit Pressure Setting  
 Example: 0500 - 500 PSI

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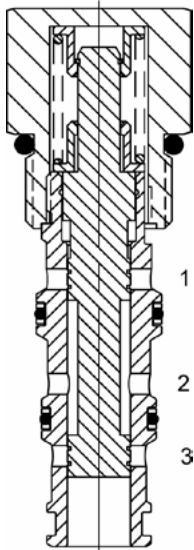


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**DG-PSS HOT OIL SHUTTLE VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, hot oil shuttle valve.

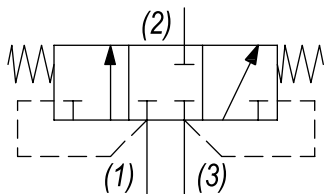
**OPERATION**

The DG-PSS, with internal piloting at port (1) or (3), oil will flow from the port opposite of the port piloted to port (2), thus removing oil from the low-pressure side for cooling or filtration purposes. The Valve is spring bias neutral, relying solely on the internal pilot pressure signal to shift to either side. The DG-PSS is closed in transition.

**FEATURES**

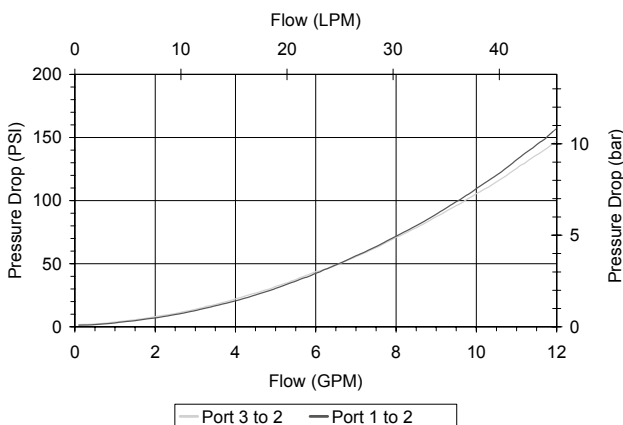
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	12 GPM (45 LTR/M)
Rated Operating Pressure	3000 PSI (207 bar)
Typical Internal Leakage (150 SSU)	5 cu/in per/min (82 ml/min)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.34 lbs (.15 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Form Tool (Finishing)	40500002
Seal Kit	21191212

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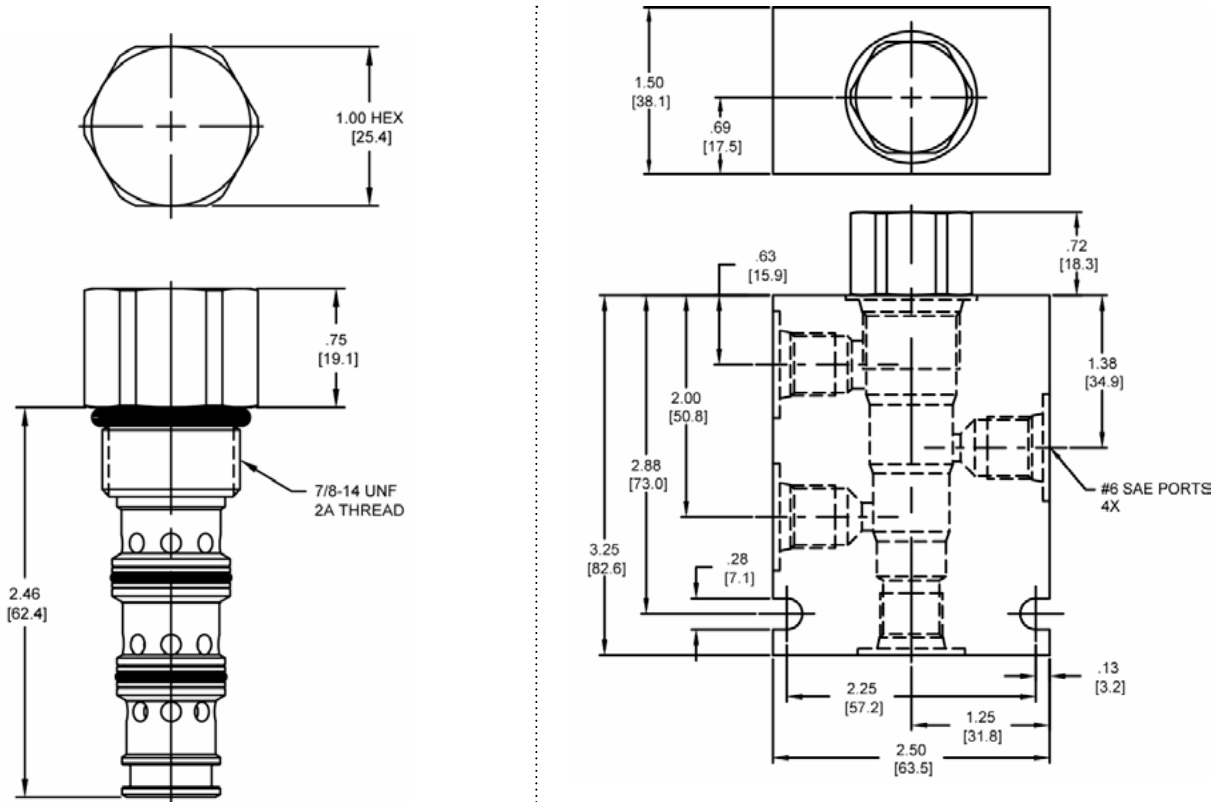


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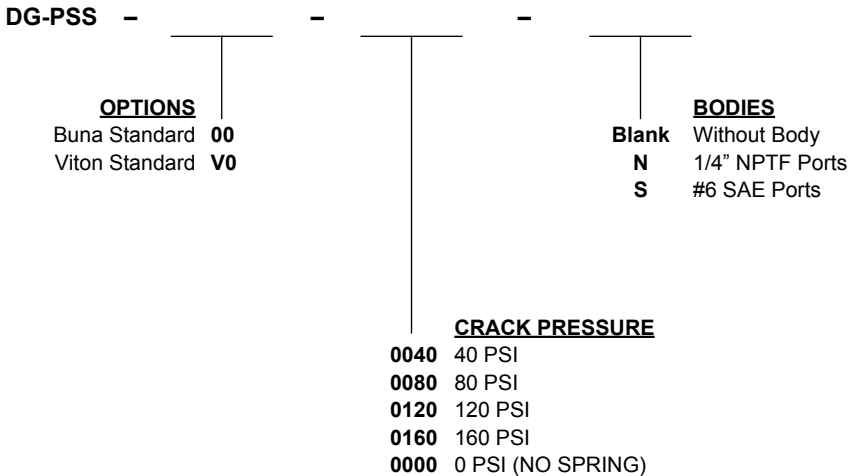
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**DIMENSIONS**



Body Weight: .99 lbs (.45 kg)

**ORDERING INFORMATION**



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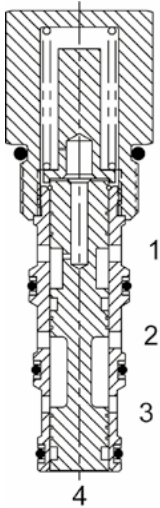


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**DG-PTC SEQUENCE VALVE, NORMALLY OPEN, EXTERNAL PILOT**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, external pilot, normally open.

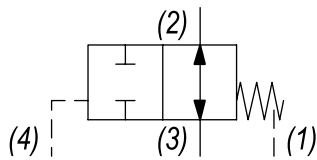
**OPERATION**

The DG-PTC allows flow at ports (3) and (2). On attainment of a predetermined pressure at port (4), the valve shifts to block flow from port (3) to (2). Spring Chamber is constantly vented to port (1).

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

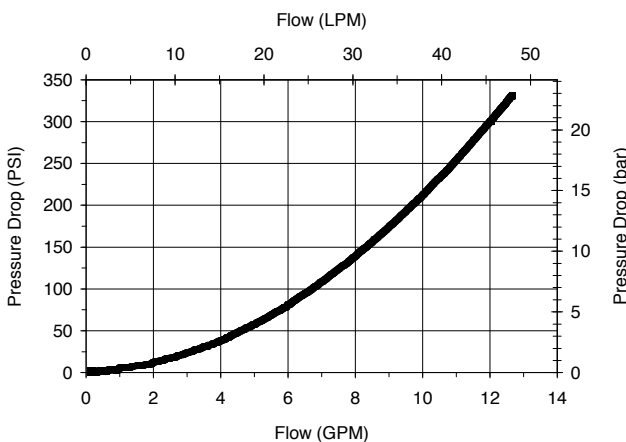
**HYDRAULIC SYMBOL**



*Orifice .030 to .060 diameter recommended beneath port (4).*

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LTR/M)
Rated Operating Pressure	3000 PSI (207 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.39 lbs (.17 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Form Tool (Finishing)	40500002
Seal Kit	21191108

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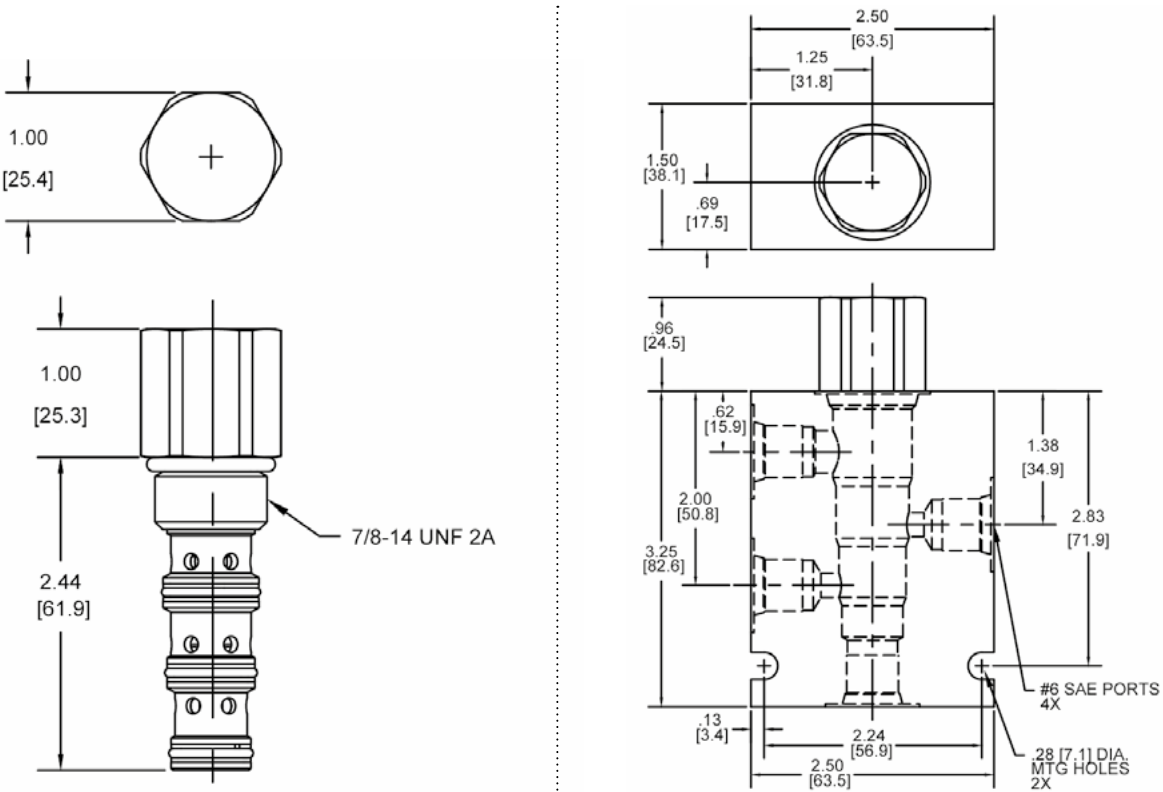
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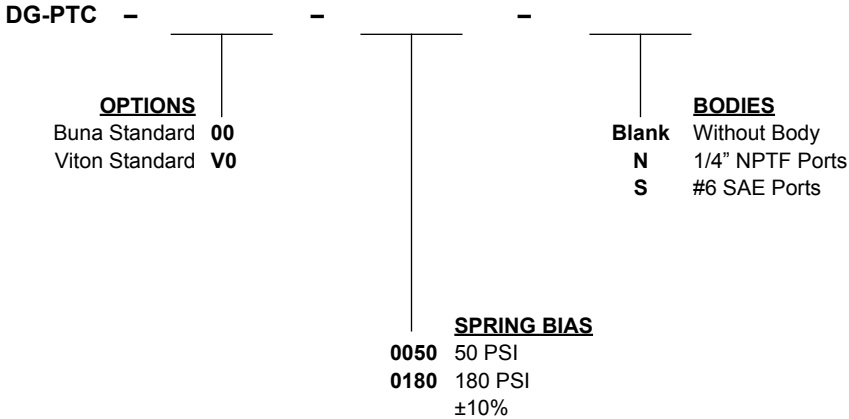


DIMENSIONS



Body Weight: .99 lbs (.45 kg)

ORDERING INFORMATION



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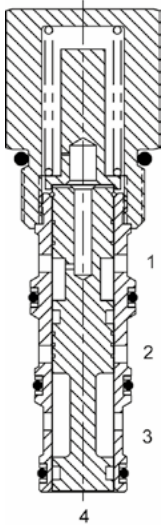


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**DG-PTO SEQUENCE VALVE, NORMALLY CLOSED, EXTERNAL PILOT**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, external pilot, normally closed.

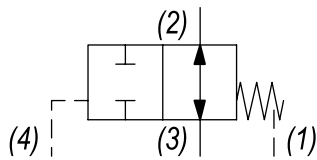
**OPERATION**

The DG-PTO blocks flow at ports (3) and (2). On attainment of a predetermined pressure at port (4), the valve shifts to allow flow from port (3) to (2). Spring Chamber is constantly vented to port (1).

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

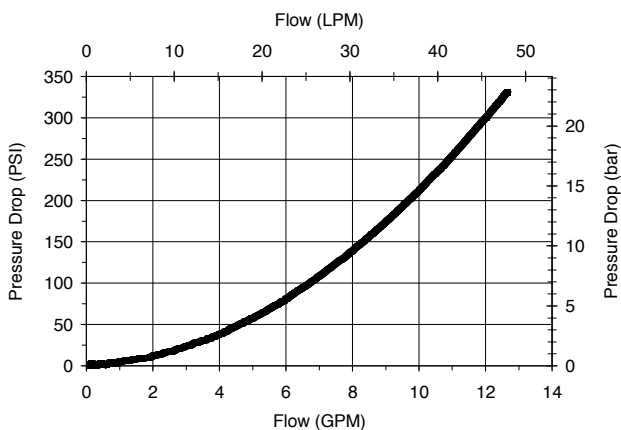
**HYDRAULIC SYMBOL**



*Orifice .030 to .060 diameter recommended beneath port (4).*

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LTR/M)
Rated Operating Pressure	3000 PSI (207 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.39 lbs (.17 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Form Tool (Finishing)	40500002
Seal Kit	21191108

**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.

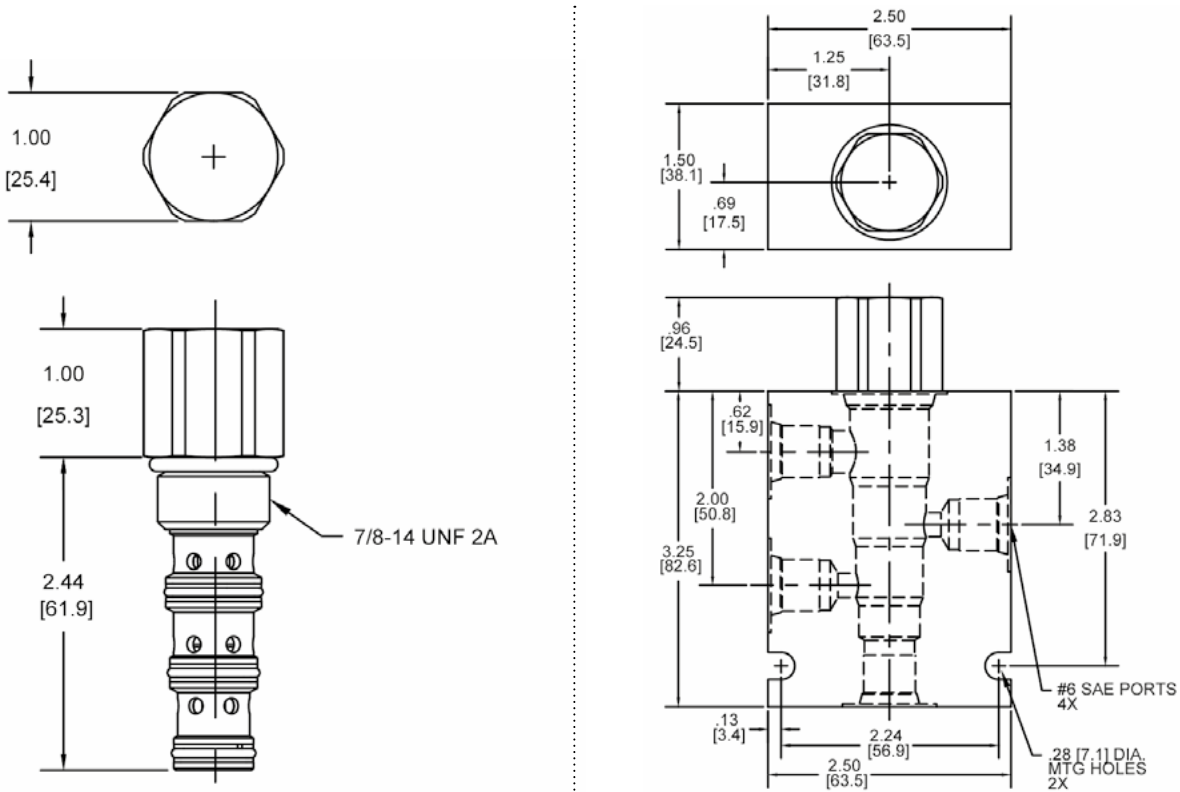


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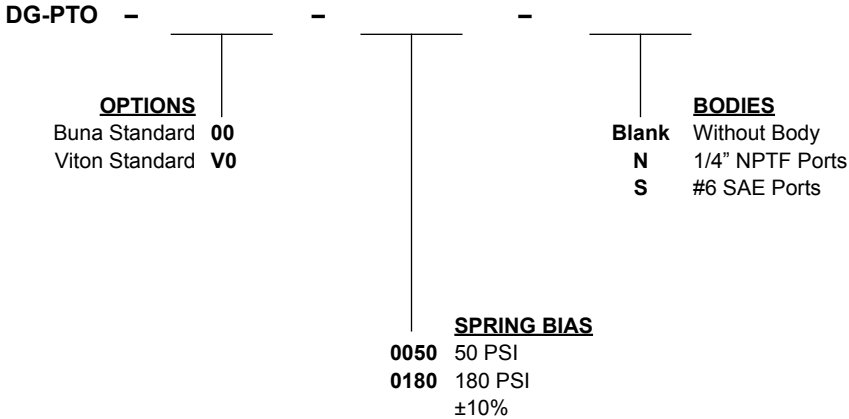
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DIMENSIONS



Body Weight: .99 lbs (.45 kg)

ORDERING INFORMATION



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**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.

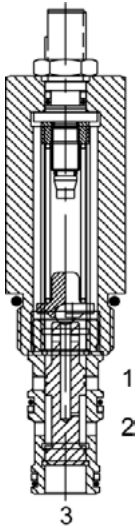


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**DF-PWE SEQUENCE VALVE, NORMALLY CLOSED, EXTERNAL PILOT**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, external pilot normally closed, sequence valve.

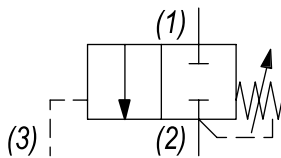
**OPERATION**

The DF-PWE blocks flow at ports (2) and (1). On attainment of a predetermined pressure at (3) the valve shifts to allow flow from (1) to (2).

**FEATURES**

- Hardened parts for long life.
- Optional spring ranges to 1500 PSI (103 bar).
- Industry common Cavity.

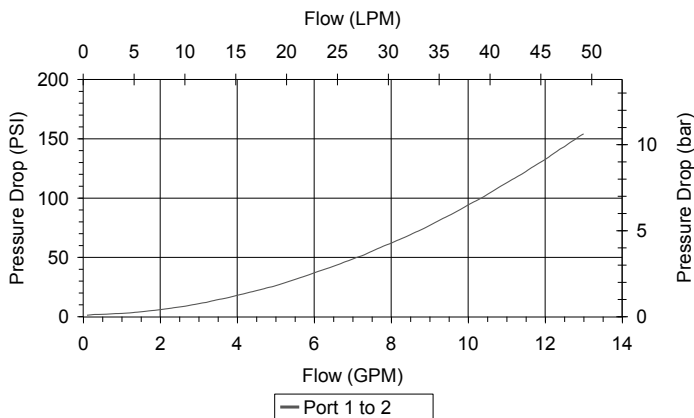
**HYDRAULIC SYMBOL**



Orifice .030 to .060 diameter recommended beneath port (3).

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LTR/M)
Rated Operating Pressure	3000 PSI (207 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.57 lbs (.26 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 3W
Cavity Form Tool (Finishing)	40500001
Seal Kit	21191206

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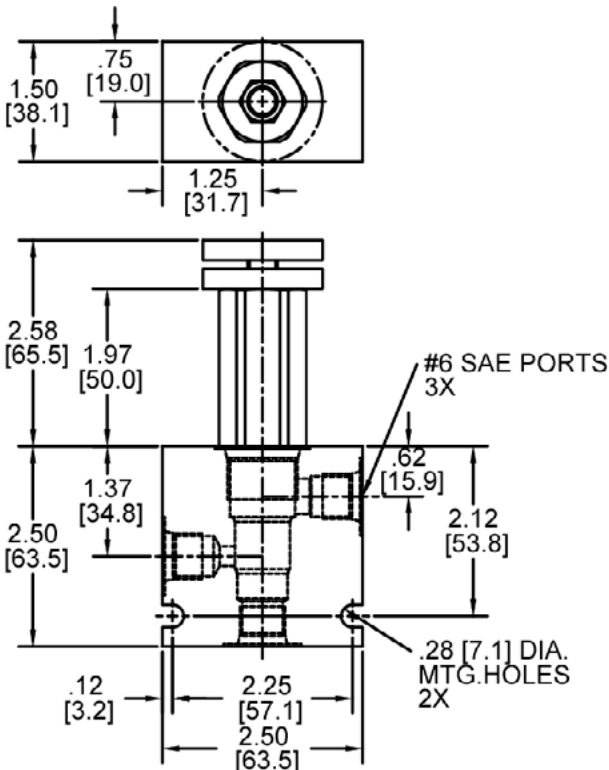
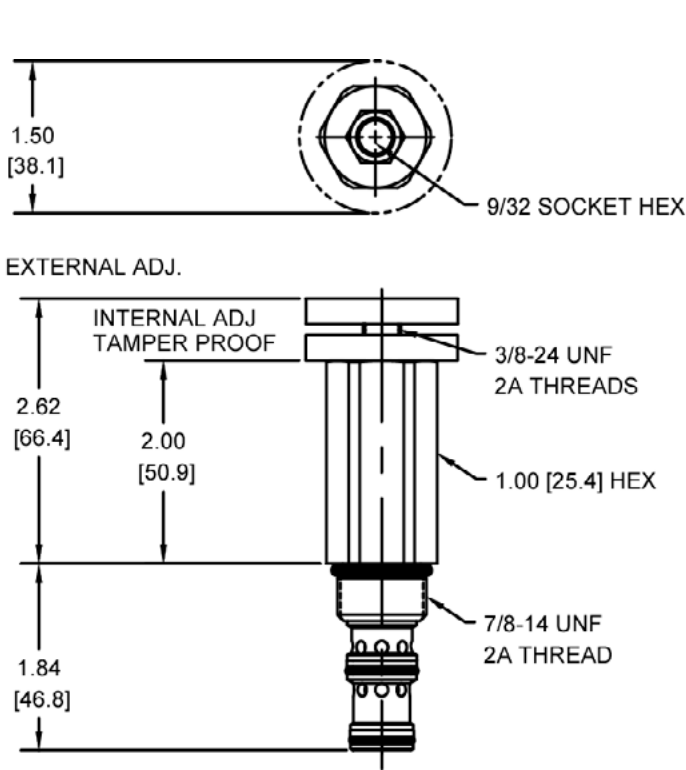


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**DIMENSIONS**



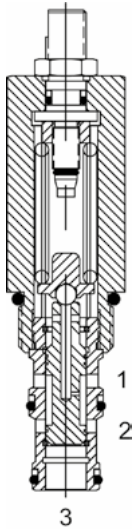
Body Weight: .76 lbs (.35 kg)

**ORDERING INFORMATION**

<p><b>DF-PWE</b> - - - -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>BODIES</b></p> <p><b>Blank</b> Without Body</p> <p><b>N</b> 1/4" NPTF Ports</p> <p><b>S</b> #6 SAE Ports</p>
<p><b>0425</b> 50-425 PSI</p> <p><b>1500</b> 425-1500 PSI</p>	<p><b>SPRING BIAS</b></p> <p><b>Tamper Proof</b> Fill in 4 Digit Pressure Setting Example: 0500 - 500 PSI</p>

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.

**DF-PWI SEQUENCE VALVE, INTERNAL PILOT AND DRAIN**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, internal pilot and drain, sequence valve.

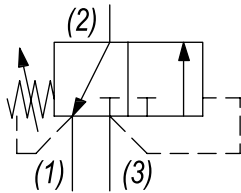
**OPERATION**

The DF-PWI blocks flow at (3) and allows flow from (2) to (1). On attainment of a predetermined pressure at (3) the valve shifts to allow flow from (3) to (2) and block flow at (1).

**FEATURES**

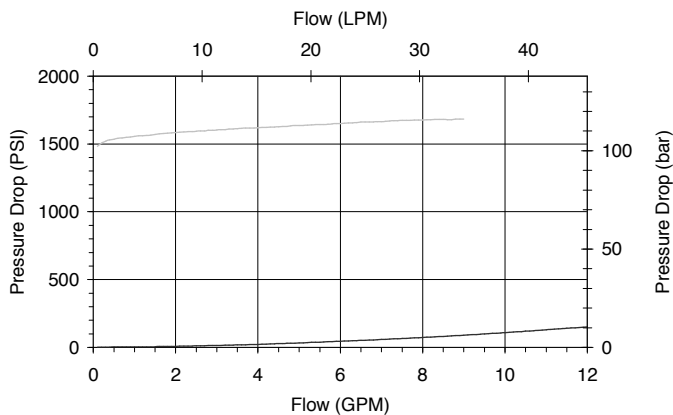
- Hardened parts for long life.
- Optional spring ranges to 1500 PSI (103 bar).
- Industry common Cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	8 GPM (30 LPM)
Rated Operating Pressure	3000 PSI (207 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.57 lbs (.26 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 3W
Cavity Form Tool (Finishing)	40500001
Seal Kit	21191206

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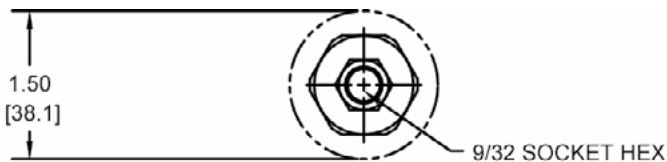


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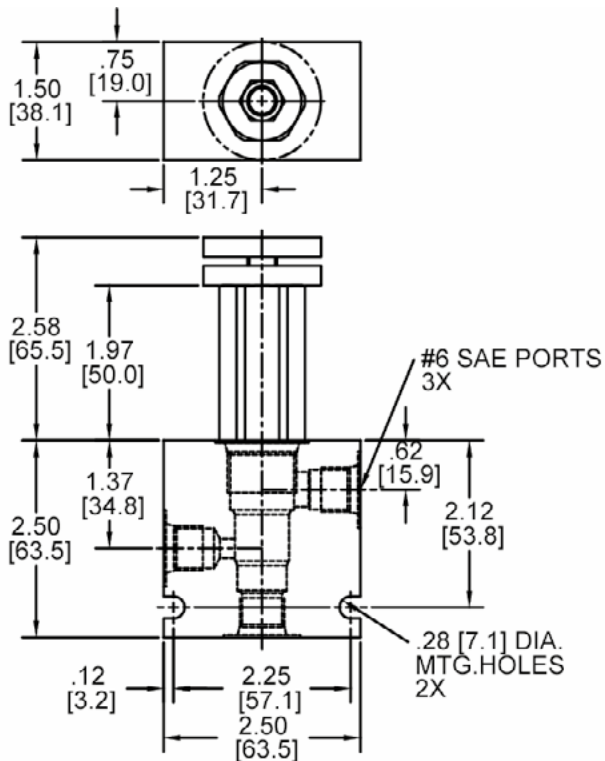
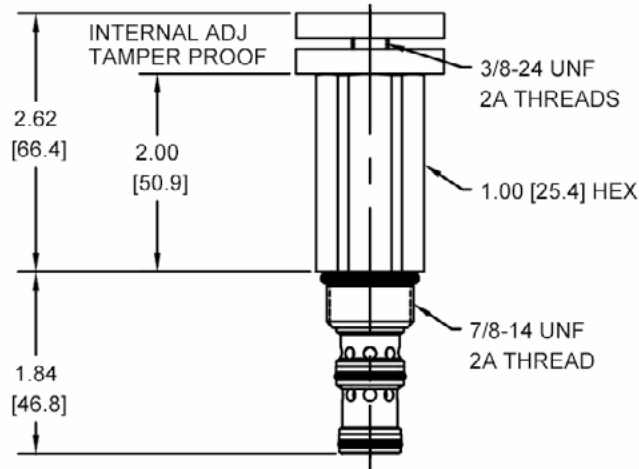


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**DIMENSIONS**

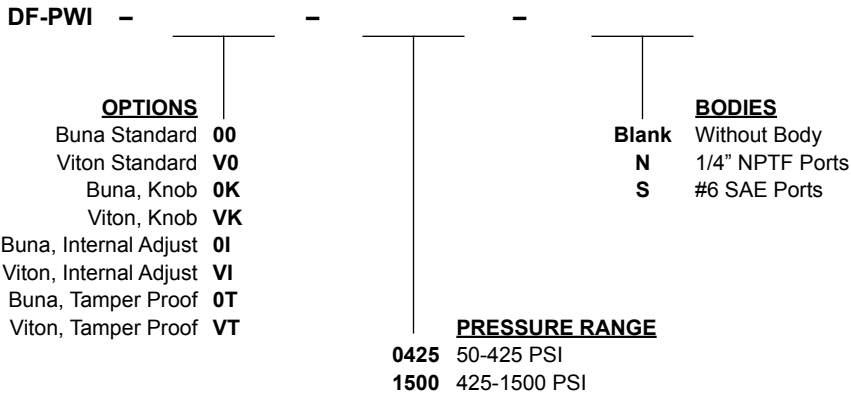


EXTERNAL ADJ.



Body Weight: .76 lbs (.35 kg)

**ORDERING INFORMATION**



**Tamper Proof**  
 Fill in 4 Digit Pressure Setting  
 Example: 0500 - 500 PSI

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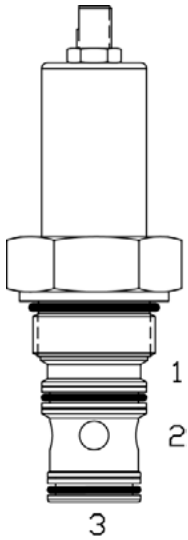


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**SL-PWA SEQUENCE VALVE, NORMALLY CLOSED, INTERNAL PILOT**



**DESCRIPTION**

16 size, 1 5/16-12 thread, "Super" series, internal pilot normally closed, sequence valve.

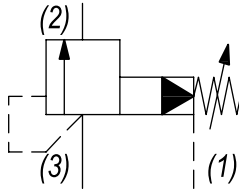
**OPERATION**

The SL-PWA blocks flow from ports (3) to (2). On attainment of a predetermined pressure at (3) the valve shifts to allow flow from (3) to (2). Port (1) should be a tank line.

**FEATURES**

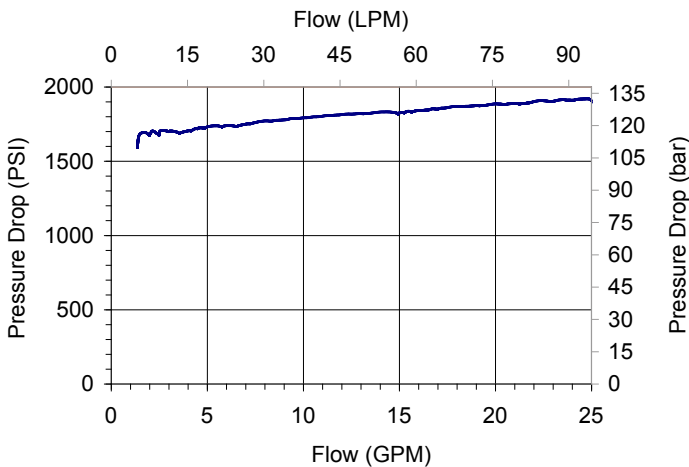
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	40 GPM (151 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	1.15 lbs (.52 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	90 ft-lbs (122 Nm)
Cavity	SUPER 3WS
Cavity Form Tool (Finishing)	40500021
Seal Kit	21191404

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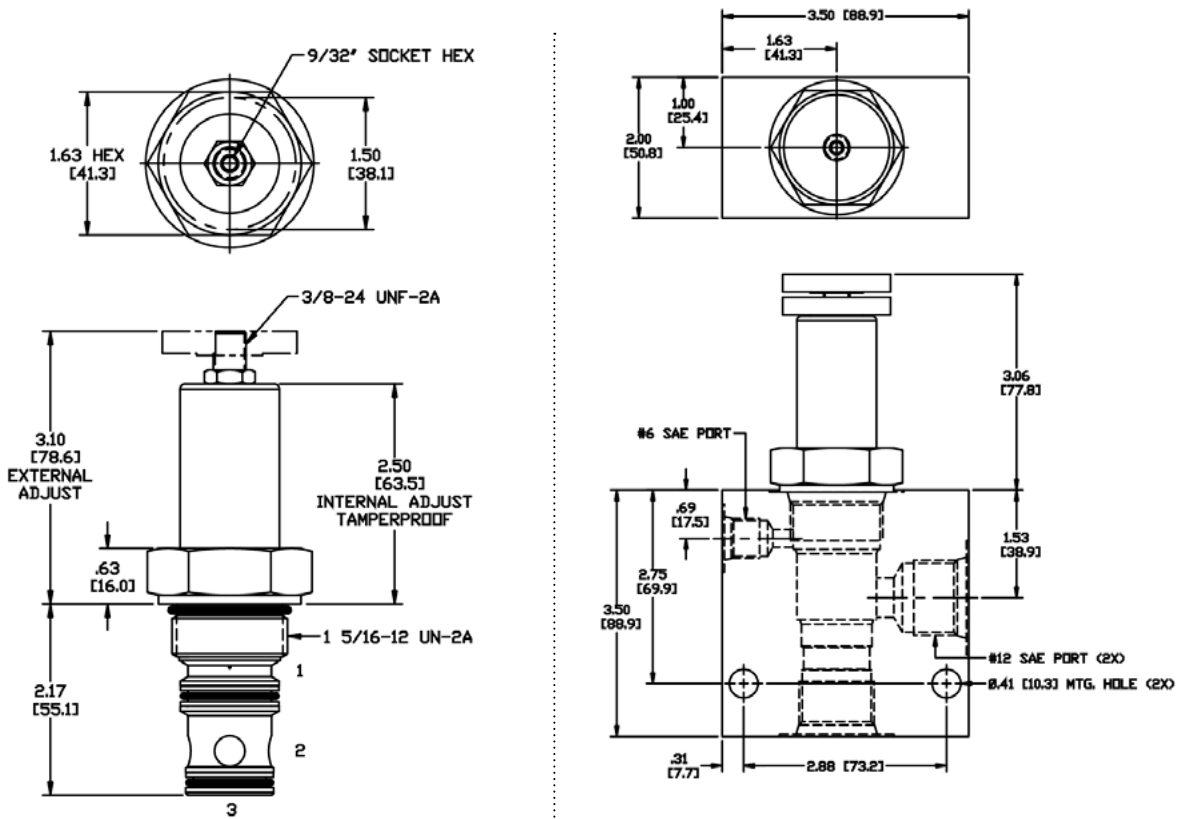
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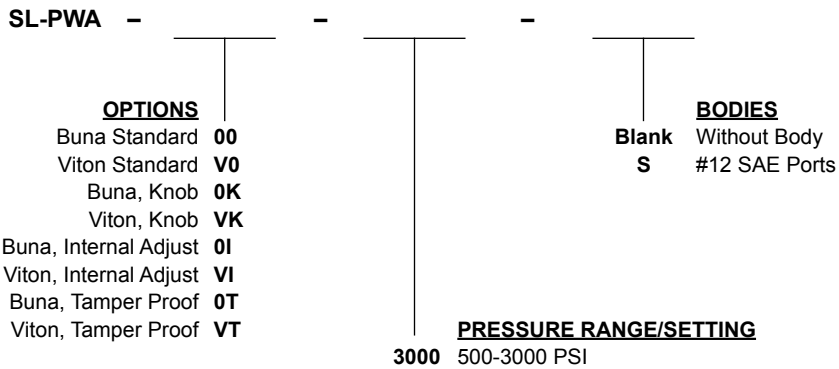


DIMENSIONS



Body Weight: 1.89 lbs (.86 kg)

ORDERING INFORMATION



**Tamper Proof**  
 Fill in 4 Digit Pressure Setting  
 Example: 2000 = 2000 PSI

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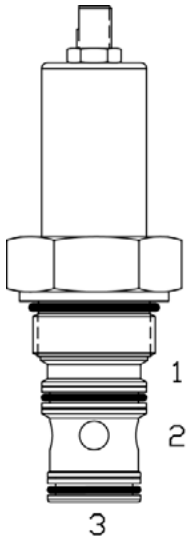


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**SL-PWB SEQUENCE VALVE, NORMALLY CLOSED, INTERNAL PILOT WITH REVERSE FREE FLOW**



**DESCRIPTION**

16 size, 1 5/16-12 thread, "Super" series, internal pilot normally closed, sequence valve w/ reverse free flow.

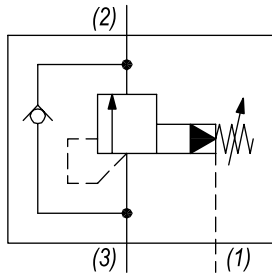
**OPERATION**

The SL-PWB blocks flow from ports (3) to (2). On attainment of a predetermined pressure at (3) the valve shifts to allow flow from (3) to (2). Port (1) should be a tank line. Reverse flow from (2) to (3) occurs when the pressure at port (2) is at least 45 PSI (3.1 bar) higher than at port (3).

**FEATURES**

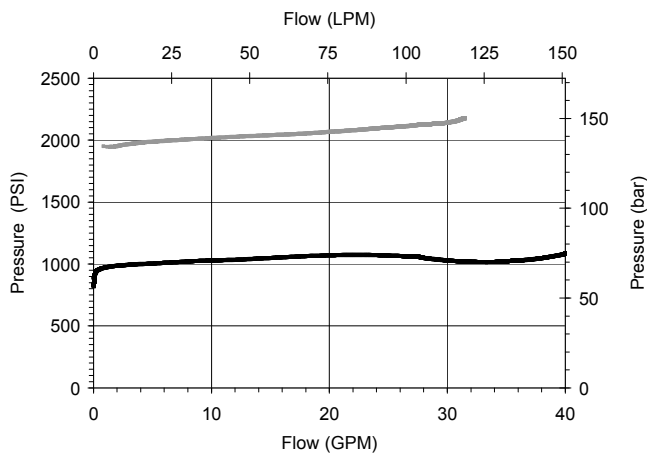
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**



**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	40 GPM (151 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	1.15 lbs (.52 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	90 ft-lbs (122 Nm)
Cavity	SUPER 3WS
Cavity Form Tool (Finishing)	40500021
Seal Kit	21191404

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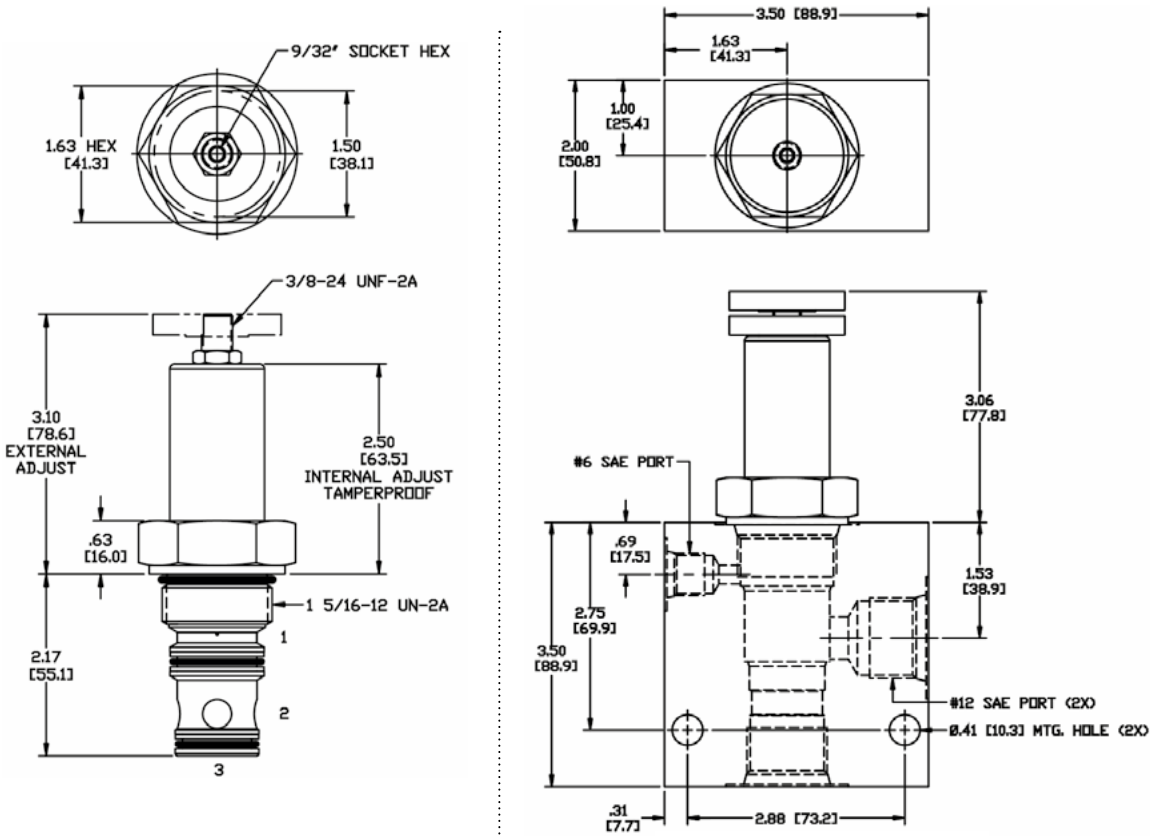


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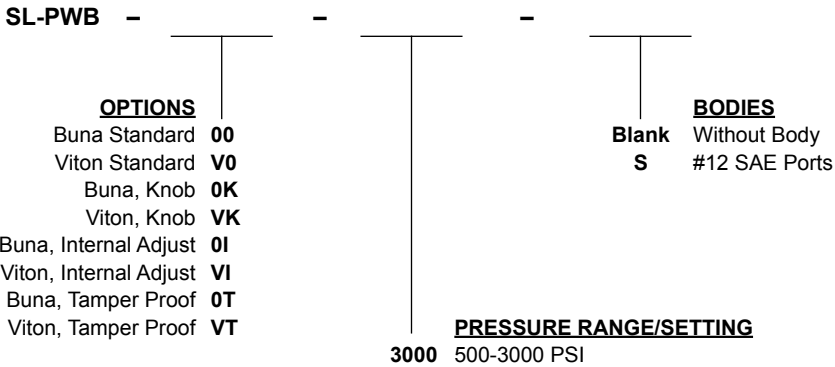
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DIMENSIONS



Body Weight: 1.89 lbs (.86 kg)

ORDERING INFORMATION



**Tamper Proof**  
 Fill in 4 Digit Pressure Setting  
 Example: 2000 = 2000 PSI

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


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**SHUT DOWN VALVES**

	GPM	PSI	LPM	BAR	CAVITY	MODEL	PAGE
	15	4500	57	310	7/8-14	DE-PSD	MP118

**TYPICAL SCHEMATIC**

Typical application for the PSD is a system protector, like a relief valve, but once this valve opens it will not reseal until the pressure at port (2) is drained off. This valve is not to be used as a load holding device.

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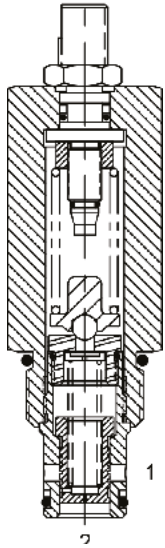


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**DE-PSD PRESSURE SHUT DOWN VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pressure shut down valve.

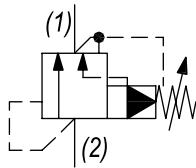
**OPERATION**

The DE-PSD blocks flow from (2) to (1) until sufficient pressure is present at (2) to open the pilot, thereby forcing the spool to open and allowing flow from (2) to (1). The valve stays open until the differential pressure from (2) to (1) decreases to less than 50 PSI (3.4 bar).

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

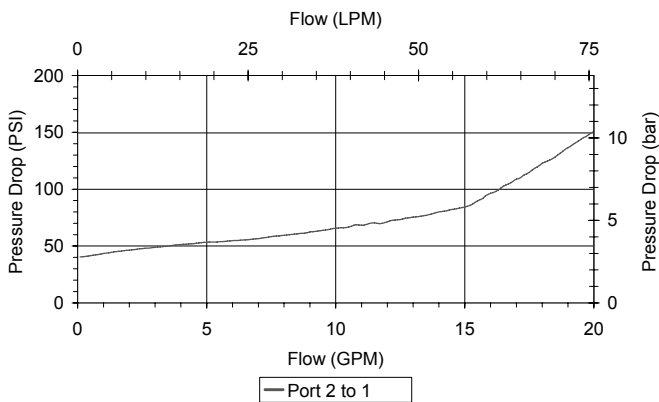
**HYDRAULIC SYMBOL**



Usually the valve requires flow to be reduced to near zero before the valve will reset.

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	4500 PSI (310 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.53 lbs (.24 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 2W
Cavity Form Tool (Finishing)	40500000
Seal Kit	21191200

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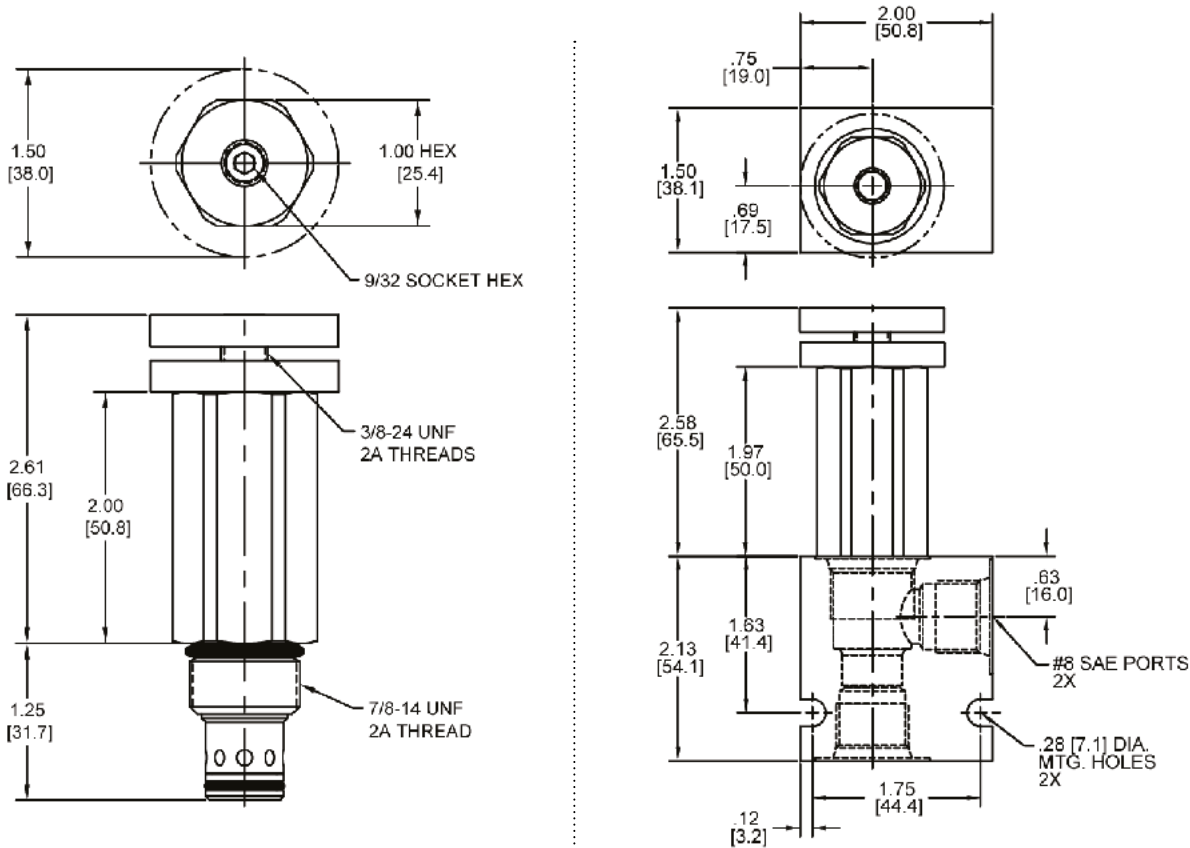


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**DIMENSIONS**



Body Weight: .47 lbs (.21 kg)

**ORDERING INFORMATION**

<p><b>DE-PSD</b> -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 3/8" NPTF Ports</p> <p><b>S</b> #8 SAE Ports</p>
<p><b>PRESSURE RANGE/SETTING</b></p> <p><b>3000</b> 100-3000 PSI</p> <p><b>4500</b> 3000-4500 PSI</p>	

**Tamper Proof**  
 Fill in 4 Digit Pressure Setting  
 Example: 0500 = 500 PSI

**Note: aluminum NOT durability rated for 4000 PSI. Consult factory for options.**

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**UNLOADING VALVES**

	GPM	PSI	LPM	BAR	CAVITY	MODEL	PAGE
	1	4000	4	276	7/8-14	<b>DF-PUV</b>	MP122

**TYPICAL SCHEMATIC**

Typical application for the PUV is for pump unloading in an accumulator system. When the PUV setting is reached, the PUV opens, venting the PCR valves pilot signal. This unloads the pump until accumulator system pressure drops to 80% of the PUV setting. The PUV closes which blocks the PCR pilot signal to recharge the accumulator and the cycle is repeated.

Note: Max PUV flow 1 GPM.

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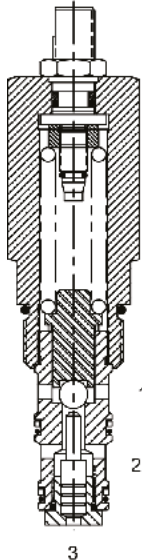


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**DF-PUV PILOT OPERATED UNLOADING VALVE**



**DESCRIPTION**

10 size, 7/8-14 thread, "Delta" series, pilot operated unloading valve.

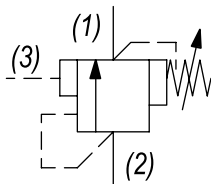
**OPERATION**

The DF-PUV blocks all ports until pressure at port (2) exceeds pressure setting, or pressure at port (3) is above 80% of pressure setting.

**FEATURES**

- Hardened parts for long life.
- Industry common cavity.

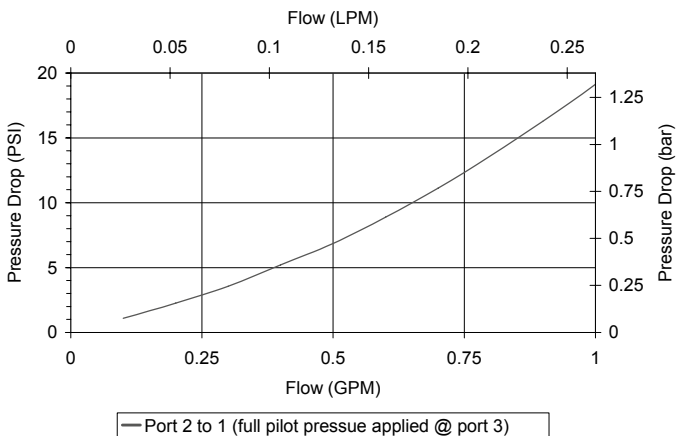
**HYDRAULIC SYMBOL**



Typical circuits require an orifice to be placed at ports (2) and (3).

**PERFORMANCE**

Actual Test Data (Cartridge Only)



**VALVE SPECIFICATIONS**

Nominal Flow	1 GPM (4 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Loading Pressure as % of Unloading Pressure	80% (ex. If the PUV cracks at 3000 PSI it will reset at 2400 PSI)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.60 lbs (.27 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 3W
Cavity Form Tool (Finishing)	40500001 (min. pre-drill .563 dia.)
Seal Kit	21191206

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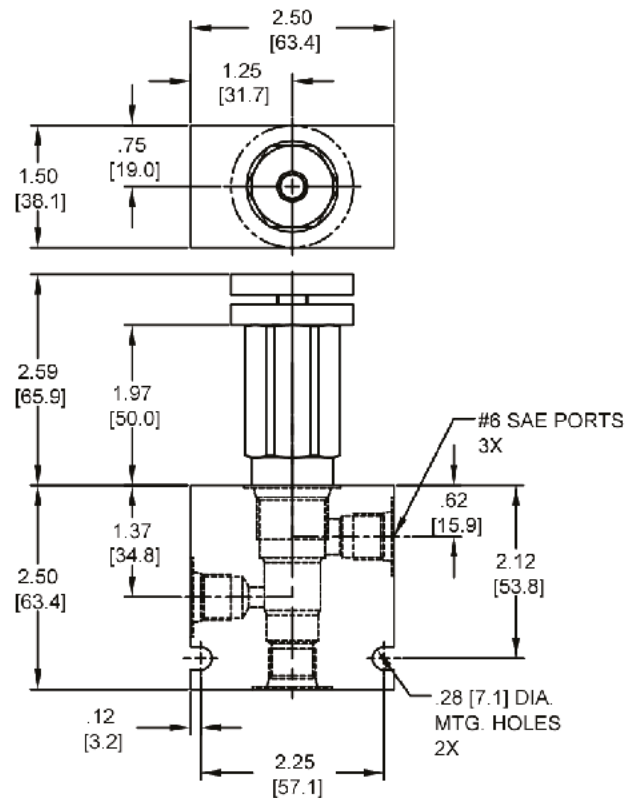
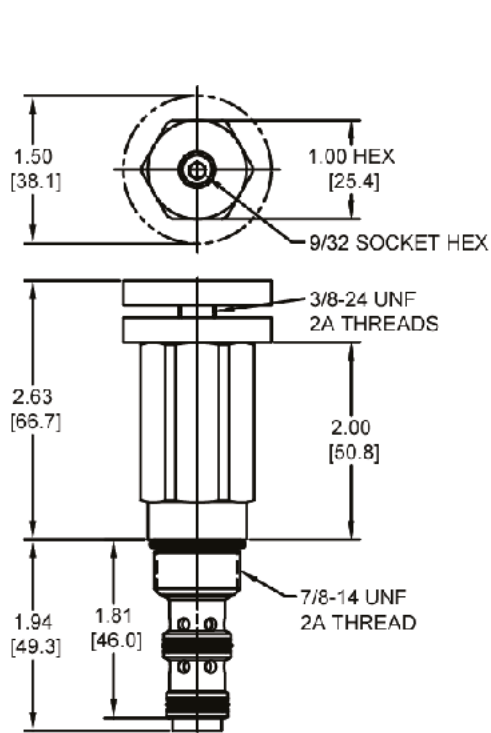


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**DIMENSIONS**



NOTE: .563 DIA. MINIMUM CAVITY PREDRILL REQUIRED

Body Weight: .76 lbs (.35 kg)

**ORDERING INFORMATION**

<p><b>DF-PUV</b> -</p> <p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Knob <b>0K</b></p> <p>Viton, Knob <b>VK</b></p> <p>Buna, Internal Adjust <b>0I</b></p> <p>Viton, Internal Adjust <b>VI</b></p> <p>Buna, Tamper Proof <b>0T</b></p> <p>Viton, Tamper Proof <b>VT</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>N</b> 1/4" NPTF Ports</p> <p><b>S</b> #6 SAE Ports</p>
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**PRESSURE RANGE/SETTING**  
 Ext./Int. Adjustable  
**3000** 300-3000 PSI

**Tamper Proof**  
 Fill in 4 Digit Pressure Setting  
 Example: 0500 = 500 PSI

W 9 / 2016

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