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- BC**  
Bodies & Cavities
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Technical Data

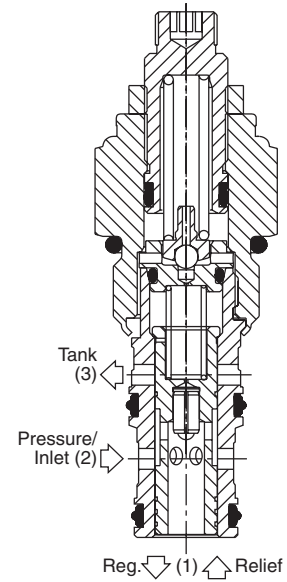
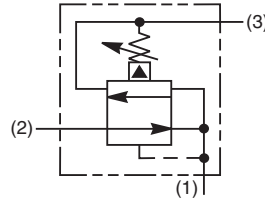
## General Description

Pilot Operated Pressure Reducing/Relieving Valve. For additional information see Technical Tips on pages PC1-PC6.



## Features

- Hardened, precision ground parts for durability
- Low profile adapter for minimal space requirements
- Fully guided poppet for more consistent reseal
- Steel adapters are zinc plated
- Polyurethane “D”-Ring eliminates backup rings and prevents hydrolysis
- Internal screening protects pilot spring from debris

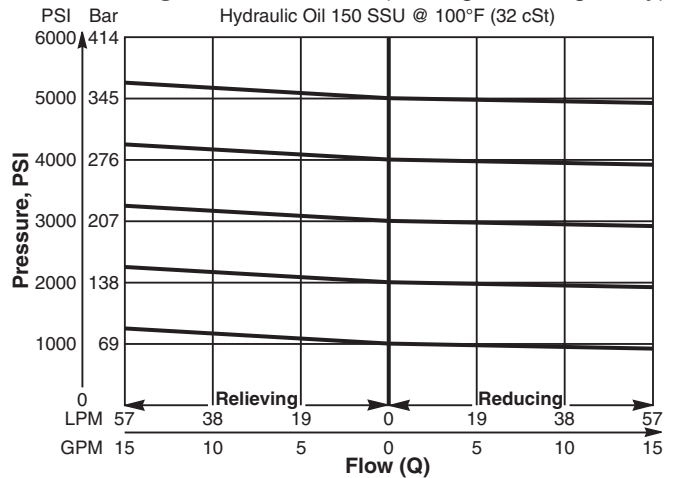


## Specifications

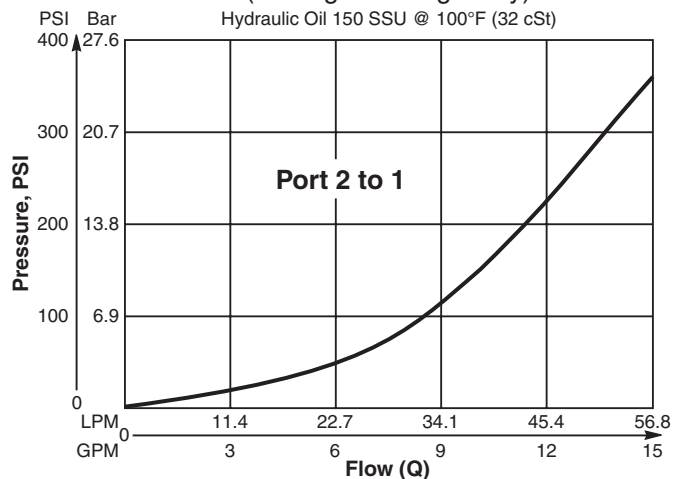
Rated Flow	56.3 LPM (15 GPM)
Maximum Inlet Pressure	380 Bar (5500 PSI)
Maximum Pressure Setting	350 Bar (5000 PSI)
Sensitivity: Pressure/Turn	<b>10</b> 19.6 Bar (285 PSI) <b>30</b> 58.9 Bar (859 PSI) <b>50</b> 131.7 Bar (1910 PSI)
Maximum Tank Pressure	350 Bar (5000 PSI)
Maximum Drain Flow	0.94 LPM (0.25 GPM)
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-37°C to +93°C (“D”-Ring) -35°F to +200°F -34°C to +121°C (Nitrile) (-30°F to +250°F) -26°C to +204°C (Fluorocarbon) (-15°F to +400°F)
Fluid Compatibility/Viscosity	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)
Filtration	ISO-4406 18/16/13, SAE Class 4
Approx. Weight	0.23 kg (0.5 lbs.)
Cavity	C10-3 (See BC Section for more details)
Form Tool	Rougher NFT10-3R Finisher NFT10-3F

## Performance Curves

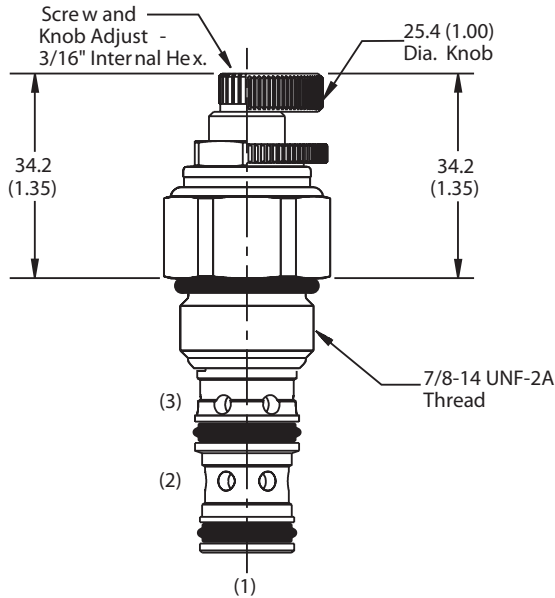
**Flow vs. Regulated Pressure** (Through cartridge only)



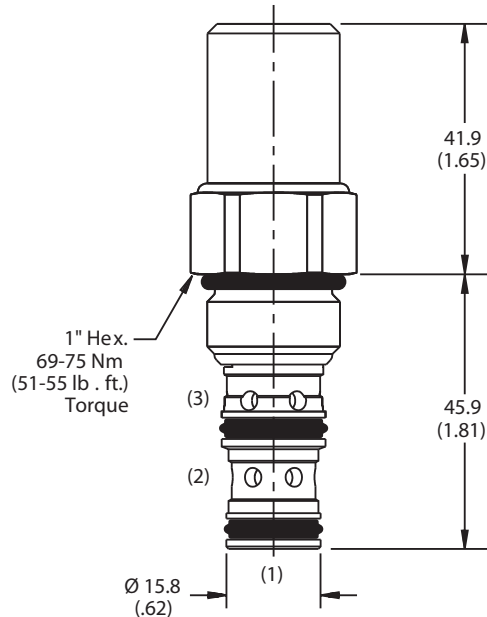
**Pressure vs. Flow** (Through cartridge only)



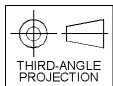
**Dimensions** Millimeters (Inches)



Screw/Knob Version



Tamper Resistant Version



**Ordering Information**

<b>PRH101</b>			
10 Size P.O. Pressure Reducing / Relieving Valve	Adjustment Style	Pressure Range	Seals

**Highlighted** represents preferred options that offer the shortest lead times. Other options may be available, but at extended lead times.

Code	Adjustment Style / Kit No.
K	Knob Adjust (717784-10)
<b>S</b>	<b>Screw Adjust</b>
T	Tamper Resistant Cap (718083)

Code	Seals / Kit No.
Omit	<b>"D"-Ring / (SK10-3)</b>
N	Nitrile / (SK10-3)
V	Fluorocarbon / (SK10-3V)

Code	Pressure Range
<b>10</b>	<b>13.7 - 69 Bar (200 - 1000 PSI)</b> Standard Setting: 34.5 Bar (500 PSI)
<b>30</b>	<b>41.4 - 207 Bar (600 - 3000 PSI)</b> Standard Setting: 103.5 Bar (1500 PSI)
<b>50</b>	<b>82.8 - 345 Bar (1200 - 5000 PSI)</b> Standard Setting: 172.4 Bar (2500 PSI)

*NOTE: For settings below 20.7 Bar (300 PSI), flow rating is limited to 11.3 LPM (3 GPM).*

Order Bodies Separately  
 See section BC

<b>B10</b>	-	<b>3</b>	-	
10 size		3-Way Cavity		Port Size

Code	Porting / Body Material
8T	SAE-8 / Steel (5000 PSI)
A8T	SAE-8 / Aluminium (3000 PSI)

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