

Technical Information

- CV** Check Valves
- SH** Shuttle Valves
- LM** Load/Motor Controls
- FC** Flow Controls
- PC** Pressure Controls
- LE** Logic Elements
- DC** Directional Controls
- MV** Manual Valves
- SV** Solenoid Valves
- PV** Proportional Valves
- CE** Coils & Electronics
- BC** Bore & Cavities
- TD** Technical Data

General Description

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

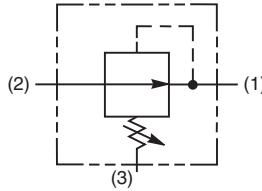
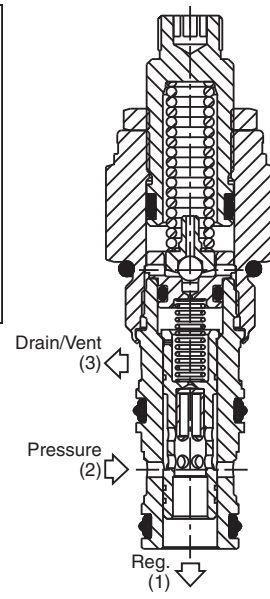
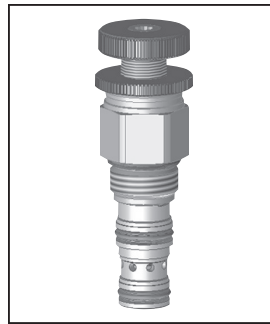


Features

- Hardened, precision ground parts for durability
- Low profile adapter for minimal space requirements
- Fully guided pilot 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

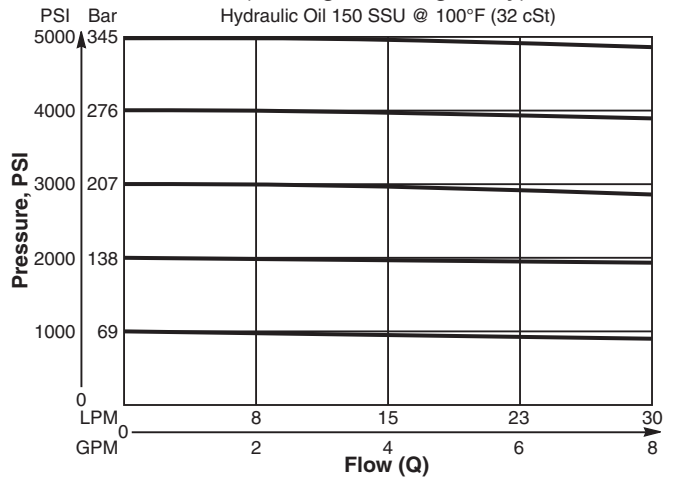
Specifications

Rated Flow	30 LPM (8 GPM)								
Maximum Inlet Pressure	380 Bar (5500 PSI)								
Maximum Pressure Setting	350 Bar (5000 PSI)								
Sensitivity: Pressure/Turn	<table style="border: none;"> <tr> <td>10</td> <td>25 Bar (362 PSI)</td> </tr> <tr> <td>20</td> <td>44.5 Bar (646 PSI)</td> </tr> <tr> <td>30</td> <td>64.2 Bar (932 PSI)</td> </tr> <tr> <td>50</td> <td>137 Bar (1987 PSI)</td> </tr> </table>	10	25 Bar (362 PSI)	20	44.5 Bar (646 PSI)	30	64.2 Bar (932 PSI)	50	137 Bar (1987 PSI)
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Maximum Tank Pressure	350 Bar (5000 PSI)								
Maximum Drain Flow	0.56 LPM (0.15 GPM)								
Cartridge Material	All parts steel. All operating parts hardened steel.								
Operating Temp. Range/Seals	-45°C to +132°C ("D"-Ring) (-50°F to +270°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	.11 kg (.25 lbs.)								
Cavity	C08-3 (See BC Section for more details)								
Form Tool	<table style="border: none;"> <tr> <td>Rougher</td> <td>NTF08-3R</td> </tr> <tr> <td>Finisher</td> <td>NFT08-3F</td> </tr> </table>	Rougher	NTF08-3R	Finisher	NFT08-3F				
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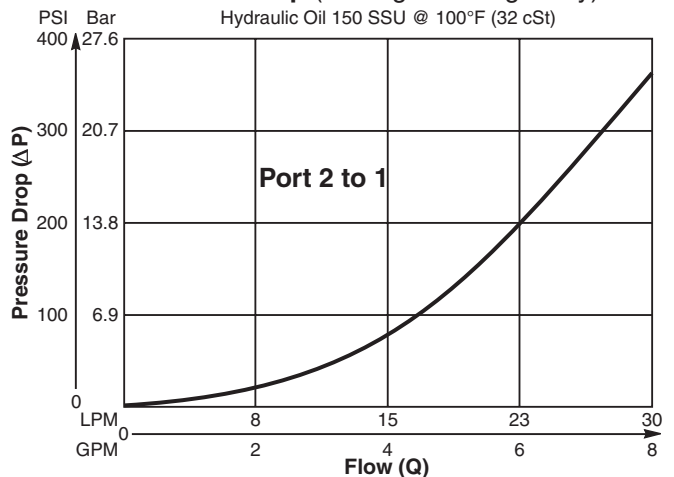


Performance Curves

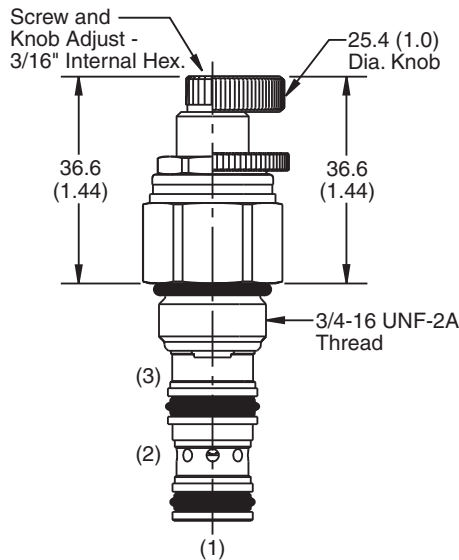
Flow vs. Pressure (Through cartridge only)



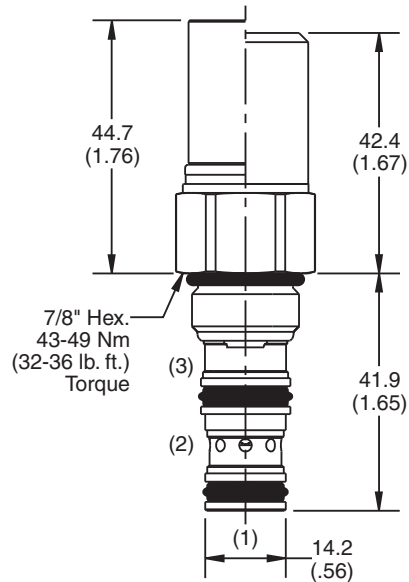
Flow vs. Pressure Drop (Through cartridge only)



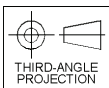
Dimensions Millimeters (Inches)



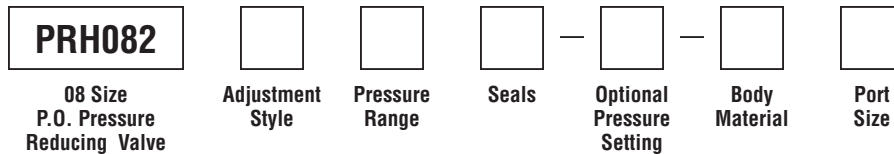
Screw/Knob Version



Fixed Cap/Tamper Resistant Version



Ordering Information



Code	Adjustment Style / Kit No.
F	Fixed style, preset at factory.
K	Knob Adjust (717784-10)
S	Screw Adjust
T	Tamper Resistant Cap (717943)

Code	Seals / Kit No.
Omit	"D"-Ring / (SK08-3)
N	Nitrile / (SK08-3N)
V	Fluorocarbon / (SK08-3V)

Code	Body Material
Omit	Steel
A	Aluminum

Code	Pressure Range
10	6.9 - 69 Bar (100 - 1000 PSI) Standard Setting: 34.5 Bar (500 PSI)
20	6.9 - 138 Bar (100 - 2000 PSI) Standard Setting: 69 Bar (1000 PSI)
30	13.8 - 207 Bar (200 - 3000 PSI) Standard Setting: 103.5 Bar (1500 PSI)
50	13.8 - 345 Bar (200 - 5000 PSI) Standard Setting: 172.4 Bar (2500 PSI)

Optional Pressure Setting	
Pressure ÷ 10	i.e. 235 = 2350 PSI
(Omit if standard setting is used)	
Setting Range:	100 to 5000 PSI

Code	Port Size	Body Part No.
Omit	Cartridge Only	
4T	SAE-4	(B08-3-*4T)
6T	SAE-6	(B08-3-*6T)

* Add "A" for aluminum, omit for steel.

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

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