

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** Bodies & Cavities
- TD** Technical Data

General Description

Direct Acting Relief Valve. This valve is designed for pilot flow circuits. For additional information see Technical Tips on pages PC1-PC6.

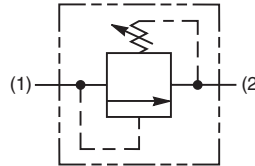
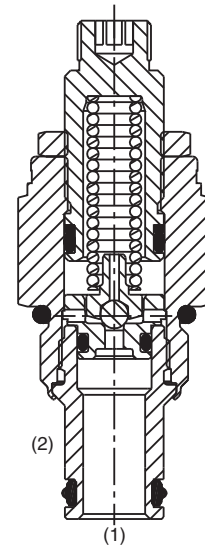
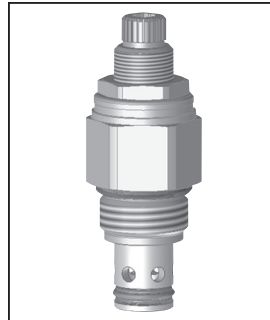


Features

- 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

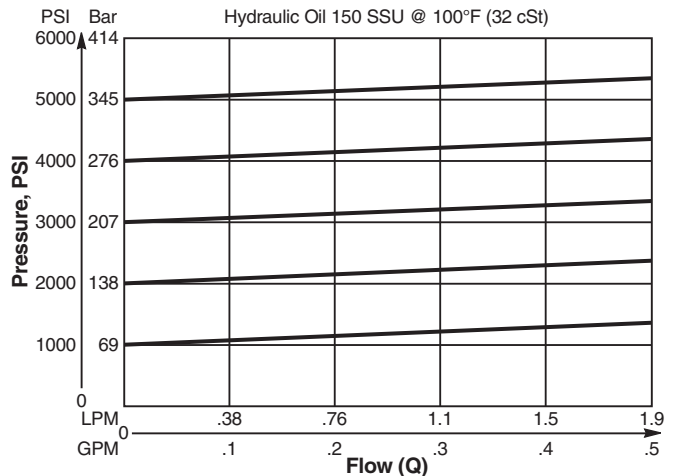
Specifications

Rated Flow	1.9 LPM (.5 GPM)								
Maximum Inlet Pressure	380 Bar (5500 PSI)								
Maximum Pressure Setting	350 Bar (5000 PSI)								
Sensitivity: Pressure/Turn	<table style="display: inline-table; border: none;"> <tr> <td style="padding-right: 10px;">10</td> <td>19.6 Bar (285 PSI)</td> </tr> <tr> <td>20</td> <td>39.3 Bar (570 PSI)</td> </tr> <tr> <td>30</td> <td>58.9 Bar (859 PSI)</td> </tr> <tr> <td>50</td> <td>131.7 Bar (1910 PSI)</td> </tr> </table>	10	19.6 Bar (285 PSI)	20	39.3 Bar (570 PSI)	30	58.9 Bar (859 PSI)	50	131.7 Bar (1910 PSI)
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Reseat Pressure	90% of crack pressure								
Leakage at 150 SSU (32 cSt)	5 drops/min. (.33 cc/min.) @75% of crack pressure								
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								
Approx. Weight	.09 kg (.20 lbs.)								
Cavity	C08-2 (See BC Section for more details)								
Form Tool	<table style="display: inline-table; border: none;"> <tr> <td>Rougher</td> <td>None</td> </tr> <tr> <td>Finisher</td> <td>NFT08-2F</td> </tr> </table>	Rougher	None	Finisher	NFT08-2F				
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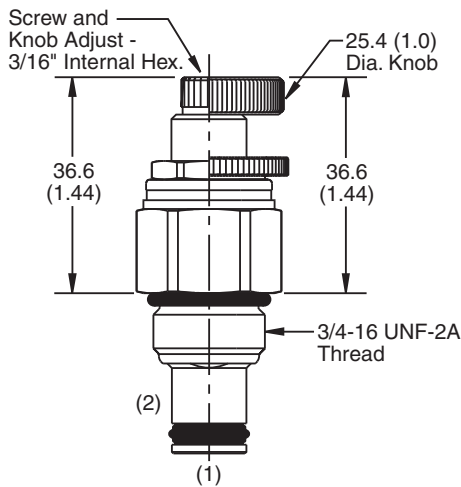


Performance Curve
Flow vs. Inlet Pressure

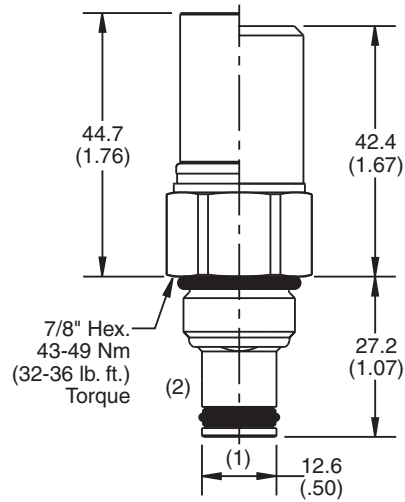
(Pressure rise through cartridge only)



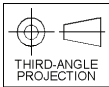
Dimensions Millimeters (Inches)



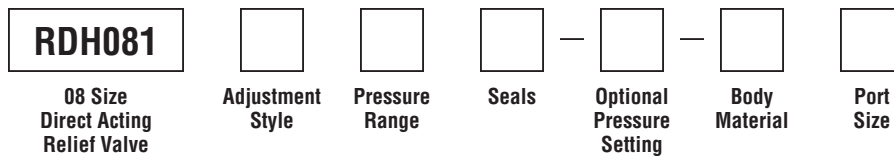
Screw/Knob Version



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 / (SK08-2)
N	Nitrile / (SK08-2N)
V	Fluorocarbon / (SK08-2V)

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) @ crack pressure, approximately 100 cc/min (6.1 in³/min)
20	6.9 - 138 Bar (100 - 2000 PSI) Standard Setting: 69 Bar (1000 PSI) @ crack pressure, approximately 100 cc/min (6.1 in ³ /min)
30	13.8 - 207 Bar (200 - 3000 PSI) Standard Setting: 103.5 Bar (1500 PSI) @ crack pressure, approximately 100 cc/min (6.1 in³/min)
50	13.8 - 345 Bar (200 - 5000 PSI) Standard Setting: 172.4 Bar (2500 PSI) @ crack pressure, approximately 100 cc/min (6.1 in³/min)

Optional Pressure Setting	
Pressure ÷ 10	i.e. 235 = 2350 PSI
(Omit if standard setting is used)	
Setting Range:	100 to 5000 PSI
All settings at crack pressure, approximately 100 cc/min (6.1 in ³ /min)	

Code	Port Size	Body Part No.
Omit	Cartridge Only	
4T	SAE-4	(B08-2-*4T)
6T	SAE-6	(B08-2-*6T)

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

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