Direct Acting Relief Valve Series RDH081

Technical Information

CV

Check Valves

SH

Shuttle Valves

Load/Motor Controls

FC

Flow Controls PC

L Logic Logic

D Controls MV

Manual Valves

Solenoid Valves PV

Proportional La Coils & Valves C Electronics

B Bodies & Cavities

TD Technica

General Description

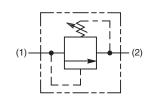
Direct Acting Relief Valve. This valve is designed for pilot flow circuits. For additional information see Technical Tips on pages PC1-PC6.

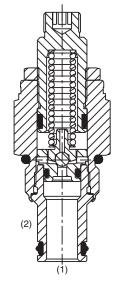


Features

- Hardened, precision ground parts for durability
- Low profile adapter for minimal space requirements
- Fully guided pilot for more consistent reseat
- Steel adapters are coated with yellow zinc dichromate for protection from salt spray
- Polyurethane "D"-Ring eliminates backup rings and prevents hydrolysis







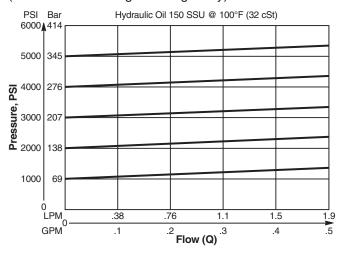
Specifications

Rated Flow	1.9 LPM (.5 GPM)	
Maximum Inlet Pressure	380 Bar (5500 PSI)	
Maximum Pressure Setting	350 Bar (5000 PSI)	
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 +93.3°C ("D"-Ring) (-50°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°F)	
Fluid Compatibility/ Viscosity	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)	
Filtration	ISO Code 16/13, SAE Class 4 or better	
Approx. Weight	.09 kg (.20 lbs.)	
Cavity	C08-2 (See BC Section for more details)	
Form Tool	Rougher None Finisher NFT08-2F	

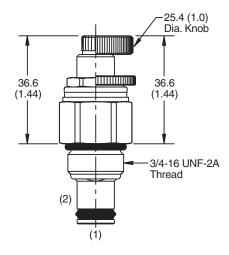
Performance Curve

Flow vs. Inlet Pressure

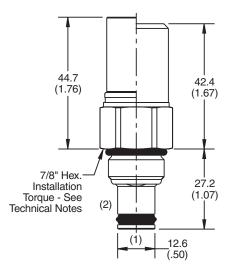
(Pressure rise through cartridge only)



Dimensions Millimeters (Inches)



Screw/Knob Version



Fixed Cap/Tamper Resistant Version



Ordering Information

RDH081



Port Size

08 Size **Direct Acting** Relief Valve

Adjustment Style

Pressure Range

Seals **Optional** Pressure Setting

Body Material

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

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 in³/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)

Code	Seals / Kit No.	
Omit	"D"-Ring / (SK08-2)	
N	Nitrile / (SK08-2N)	
V	Fluorocarbon / (SK08-2V)	

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)		

PC10

Code	Body Material
Omit	Steel
Α	Aluminum

Code	Port Size	Body Part No.
Omit	Cartridge Only	
6P	3/8" NPTF	(B08-2-*6P)
4T 6T	SAE-4 SAE-6	(B08-2-*4T)
6T	l	(B08-2-*6T)
6B	3/8" BSPG	(B08-2-*6B)

^{*} Add "A" for aluminum, omit for steel.

CV

Load/Motor Controls

MV

PV Proportional Valves

CE

BC

TD