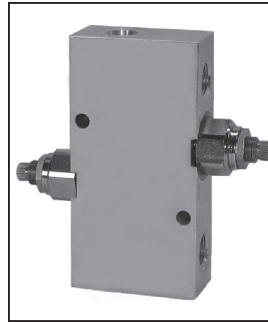


Technical Information

- 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

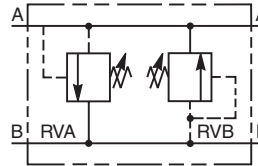
General Description

Dual Cross-Over Relief Valve. For additional information see Technical Tips on pages PC1-PC6.



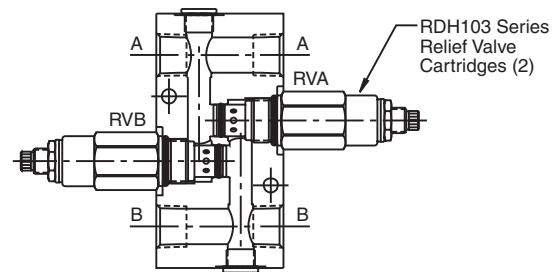
Features

- Fast acting differential area reliefs for high flow capacity
- Spherical poppets for low leakage
- Internal mechanical stop limits poppet travel eliminating spring solidification
- “D”-Ring eliminates backup rings
- All external parts zinc plated

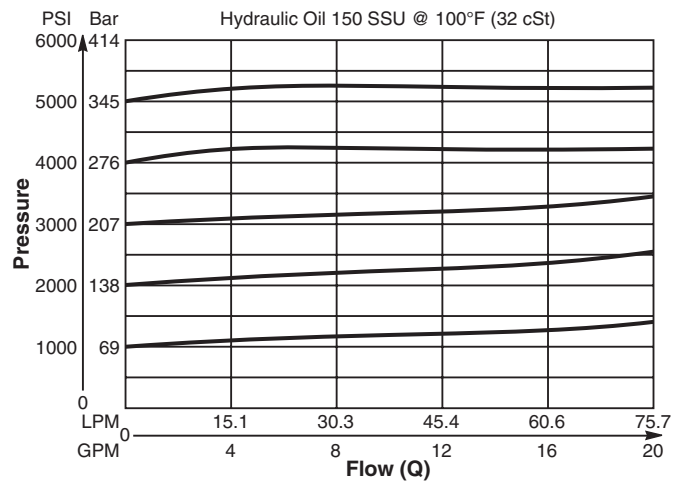


Specifications

Maximum Flow	75 LPM (20 GPM)								
Maximum Inlet Pressure	350 Bar (5000 PSI)								
Maximum Pressure Setting	350 Bar (5000 PSI)								
Sensitivity: Pressure/Turn	<table border="0"> <tr> <td>10</td> <td>9.8 Bar (143 PSI)</td> </tr> <tr> <td>20</td> <td>17 Bar (246 PSI)</td> </tr> <tr> <td>30</td> <td>25.8 Bar (375 PSI)</td> </tr> <tr> <td>50</td> <td>40.6 Bar (589 PSI)</td> </tr> </table>	10	9.8 Bar (143 PSI)	20	17 Bar (246 PSI)	30	25.8 Bar (375 PSI)	50	40.6 Bar (589 PSI)
10	9.8 Bar (143 PSI)								
20	17 Bar (246 PSI)								
30	25.8 Bar (375 PSI)								
50	40.6 Bar (589 PSI)								
Reseat Pressure	85% 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.								
Body Material	Steel								
Operating Temp. Range (Ambient)	-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)								
Filtration	ISO-4406 18/16/13, SAE Class 4								
Fluids	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)								
Approx. Weight									



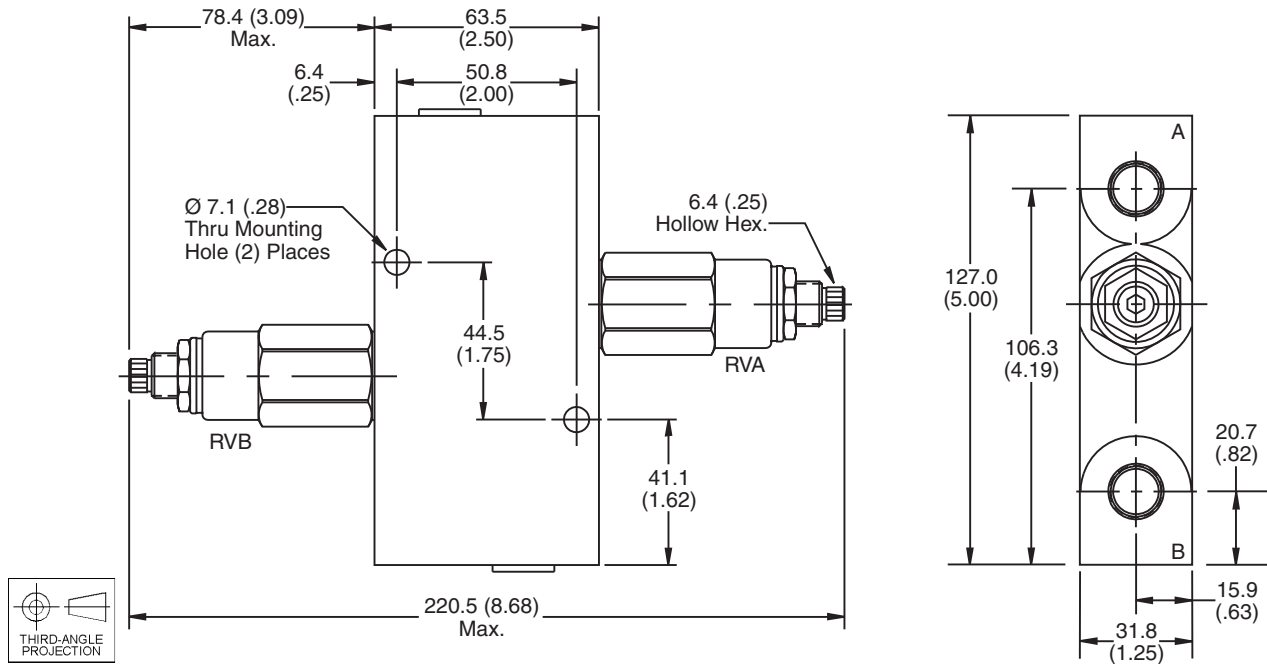
Performance Curve
Flow vs. Inlet Pressure
(Pressure rise through cartridge only)



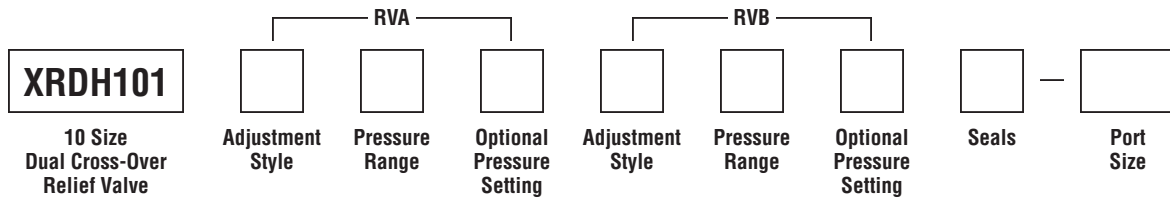
Note: A 6.9 Bar (100 PSI) pressure differential must be maintained between the two relief valve settings.



Dimensions Millimeters (Inches)



Ordering Information



Code	Adjustment Style / Kit No.
F	Fixed style, preset at factory.
K	Knob Adjust (717784-10) (Requires 2)
S	Screw Adjust
T	Tamper Resistant Cap (717943) (Requires 2)

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 11.3 LPM (3 GPM)	

Code	Port Size	Part No.
Omit	Cartridge Only	
8T	SAE-8	830318

*Steel body only.
 Individual body requires 2 SAE 6 plugs.
 Part number 6 HP50N-S.*

Code	Pressure Range
10	6.9 - 69 Bar (100 - 1000 PSI) Standard Setting: 34.5 Bar (500 PSI) @ 11.3 LPM (3 GPM)
20	34.5 - 138 Bar (500 - 2000 PSI) Standard Setting: 69 Bar (1000 PSI) @ 11.3 LPM (3 GPM)
30	69 - 207 Bar (1000 - 3000 PSI) Standard Setting: 103.5 Bar (1500 PSI) @ 11.3 LPM (3 GPM)
50	138 - 345 Bar (2000 - 5000 PSI) Standard Setting: 172.4 Bar (2500 PSI) @ 11.3 LPM (3 GPM)

Code	Seals
Omit	"D"-Ring
N	Nitrile
V	Fluorocarbon

*Note: A 6.9 Bar (100 PSI) pressure differential must be maintained between the two relief valve settings. If both reliefs are adjustable and have the same pressure range; it is not necessary to repeat the adjustment and setting.
 i.e. XRDH101S50-8T means that both A & B reliefs are screw adjustable and have a range of 138 - 345 Bar (2000 - 5000 PSI).*