

Pilot operated, balanced piston relief valve

Capacity: 100 gpm (380 L/min.)

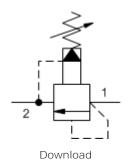
Functional Group:

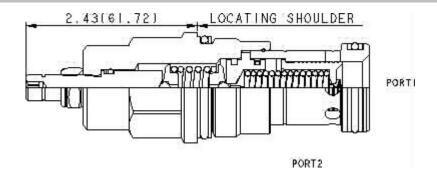
Products: Cartridges: Relief: 2 Port: Pilot Operated, Balanced Piston

Model: RPIC-LAN

Product Description

Pilot-operated, balanced-piston relief cartridges are normally closed pressure regulating valves. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to regulate the pressure. These valves are accurate, have low pressure rise vs. flow, they are smooth and quiet, and are moderately fast.





Technical Features

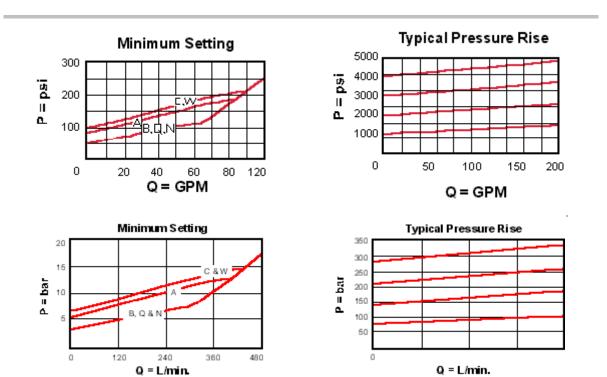
- Will accept maximum pressure at port 2; suitable for use in cross port relief circuits. If used in cross port relief circuits, consider spool leakage.
- Not suitable for use in load holding applications due to spool leakage.
- All 2-port relief cartridges (except pilot reliefs) are physically and functionally interchangeable (same flow path, same cavity for a given frame size).
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

- Main stage orifice is protected by a 150 micron stainless steel screen.
- Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio.
- Stainless steel cartridge options P or W are intended for use within corrosive environments with all external components manufactured in stainless steel or titanium. Internal working components remain the same as the standard valves.

Technical Data

Technical Data		
	U.S. Units	Metric Units
Model Weight	1.18 lb.	0.54 kg.
Cavity	T-16A	
Capacity	100 gpm	380 L/min.
Adjustment - Number of Clockwise Turns to Increase Setting	5	
Factory Pressure Settings Established at	4 gpm	15 L/min.
Maximum Operating Pressure	5000 psi	350 bar

Maximum Valve Leakage at 110 SUS (24 cSt)	4 in³/min.@1000 psi	65 cc/min.@70 bar
Response Time - Typical	10 ms	
Series (from Cavity)	Series 3	
Valve Hex Size	1 1/4 in.	31,8 mm
Valve Installation Torque	150 - 160 lbf ft	200 - 215 Nm
Adjustment Screw Hex Socket Size	5/32 in.	4 mm
Adjustment Nut Hex Size	9/16 in.	15 mm
Adjustment Nut Torque	108 lbf in.	12 Nm
Seal Kits	Buna: 990-016-007	
Seal Kits	Viton: 990-016-006	



RPIC-LAN

Control Adjustment Range External Material/Seal Material

If the material/seal is P, the control must be L or C If the material/seal is W, the control must be L or C

* Special Setting required, specify at time of order Customer specified setting stamped on hex \$1.10 Related Models

RPIC8

- Explanation of Sun cartridge control options US units.
- Explanation of Sun cartridge control options metric units.
- Two-piece, floating cartridge construction.

Copyright © 2007-2008 Sun Hydraulics Corporation. All rights reserved. Terms and Conditions - ISO Certification - Statement of Privacy