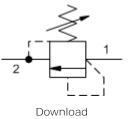


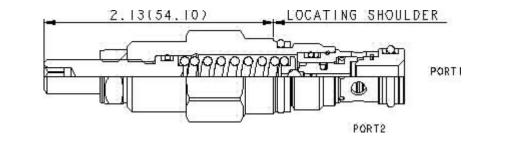
Direct-acting relief valve

Functional Group: Products : Cartridges : Relief : 2 Port : Direct Acting Capacity: 12 gpm (45 L/min.) Model: RDBA-LCN

Product Description

Direct-acting relief cartridges are normally closed, pressure-limiting valves used to protect hydraulic components from pressure transients. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to limit the pressure rise. These valves are smooth and quiet, essentially zero leak, dirt tolerant, immune to silting and are very fast.



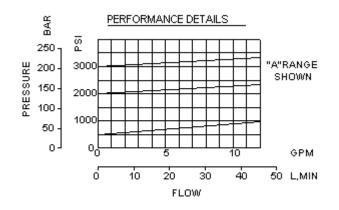


Technical Features

- Will accept maximum pressure at port 2; suitable for use in cross port relief circuits.
- Valve is relatively insensitive to varying oil temperatures and oil borne contamination.
- Suitable for use in load holding applications.
- All 2-port relief cartridges (except pilot reliefs) are physically and functionally interchangeable (same flow path, same cavity for a given frame size).
- The seals on the adjust screw are exposed to system pressure which means this valve can only be adjusted when the pressure is removed. The setting procedure is; check the setting, remove the pressure, adjust the valve, check the new setting.
- Select a spring range where the desired relief setting is approximately mid-range between the minimum and maximum pressure to ensure maximum valve repeatability.
- Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio.
- 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.

	U.S. Units	Metric Units
Model Weight	0.21 lb.	0.10 kg.
Cavity	T-162A	
Capacity	12 gpm	45 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 Reseat	10 drops/min.	0,7 cc/min.
Response Time - Typical	2 ms	
Series (from Cavity)	Series 0	

U.S. Patent #	4,742,846		
Reseat	>90 % of S	>90 % of Set Pressure	
Valve Hex Size	3/4 in.	19,1 mm	
Valve Installation Torque	25 - 30 lbf ft	35 - 40 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: 990-162-007		
Seal Kits	Viton: 990-162-006		



RDBA-LCN

Control Adjustment Range Material 1000 - 6000 psi (70 -L Standard Screw Adjustment +0.00 C 420 bar), 1000 psi (70 +2.00 N Buna-N +0.00 bar) Standard Setting

External Material/Seal

When the control is F, the range must be A,B,E or W

Customer specified setting stamped on hex \$1.10

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

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