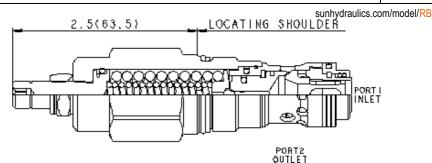


# CONFIGURATION

L	Control	Standard Screw Adjustment
C	Adjustment	1500 - 6000 psi (105 - 420 bar)

C	Adjustment Range	1500 - 6000 psi (105 - 420 bar), 1500 psi (105 bar) Standard Setting
N	Seal Material	Buna-N



The bi-directional, direct-acting relief cartridge is a normally closed, pressure-limiting valve used to protect hydraulic components from pressure transients. When the pressure differential between ports 1 and 2 exceeds the valve setting, the valve starts to open, throttling flow to limit the pressure rise, regardless of the direction.

Both directions have very similar setting and performance.

#### **TECHNICAL DATA**

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-3A		
Series	2		
Capacity	120 L/min.		
Factory Pressure Settings Established at	15 L/min.		
Maximum Operating Pressure	350 bar		
Maximum Valve Leakage at Reseat	30 drops/min.		
Response Time - Typical	2 ms		
Reseat	>85% of setting		
Hysteresis	≤ 3 %		
Adjustment - No. of CW Turns from Min. to Max. setting	5		
Valve Hex Size	28,6 mm		
Valve Installation Torque	61 - 68 Nm		
Seal kit - Cartridge	Buna: 990303007		
Seal kit - Cartridge	Polyurethane: 990303002		
Seal kit - Cartridge	Viton: 990303006		
Model Weight	0.31 kg.		

### **CONFIGURATION OPTIONS**

#### Model Code Example: RBFALCN

CONTROL		ADJUSTMENT RANGE	C)	SEAL MATERIAL	(N)
<ul><li>L Standard Screw Adjustment</li><li>C Tamper Resistant - Factory Set</li></ul>		<ul> <li>C 1500 - 6000 psi (105 - 420 bar), 1500 psi (105 bar) Standard Setting</li> <li>W 800 - 4500 psi (55 - 315 bar), 1000 psi (70 bar) Standard Setting</li> </ul>		<ul><li>N Buna-N</li><li>E EPDM</li><li>V Viton</li></ul>	

## **TECHNICAL FEATURES**

- Because the modulating occurs inside the cartridge, these valves are immune to most of the problems associated with cavitation, namely noise and manifold erosion.
- The seals on the adjust screw are exposed to pressure at port 1 which means this valve can only be adjusted when the pressure is removed or port 2 is used to set the valve. The setting procedure at port 1 is; check the setting, remove the pressure, adjust the valve, check the new setting.
- Valve is relatively insensitive to varying oil temperatures and oil borne contamination.
- Select a spring range where the desired relief setting is approximately mid-range to high between the minimum and maximum pressure to ensure maximum valve . repeatability.
- 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.

## PERFORMANCE CURVES

