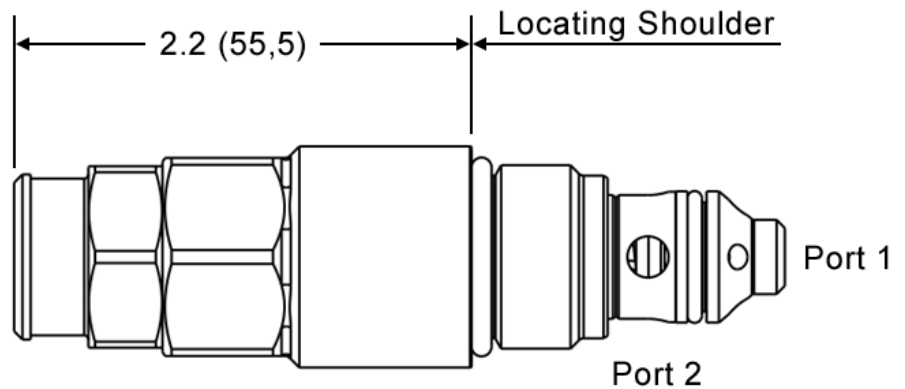
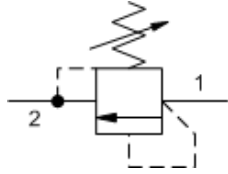




in (mm)

This direct-acting relief cartridge is a normally closed, pressure-limiting device used to protect hydraulic systems from over pressurization. When the pressure at the inlet (Port 1) reaches the valve setting, the valve opens to tank (Port 2) to prevent over pressurization. This valve is dirt-tolerant and is designed to be very fast-acting with a low rate of pressure rise, but at the expense of smoothness.

TECHNICAL DATA

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

Cavity	SC-10-02
Series	1C
Capacity	40 L/min.
Maximum Operating Pressure	420 bar
Factory Pressure Settings Established at	4 L/min.
Typical valve leakage at 110 SUS (24cSt) at 90% of valve setting	10 mL/min.
Cap Hex Size	22 mm
Cap Torque	31 - 35 lbf ft
Response Time - Typical	2 ms
Valve Hex Size	24 mm
Valve Installation Torque	57 - 62 Nm
Adjustment Screw Internal Hex Size	6 mm

CONFIGURATION OPTIONS

Model Code Example: RDUALAN

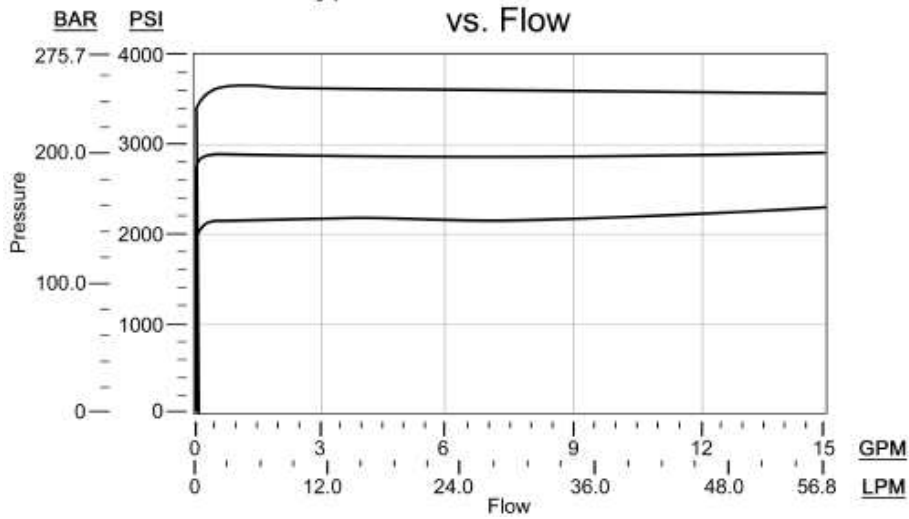
CONTROL	(L)	ADJUSTMENT RANGE	(A)	SEAL MATERIAL	(N)
L -		A 1750 - 3625 psi B 580 - 2030 psi C 3200 - 5950 psi		N Buna-N	

TECHNICAL FEATURES

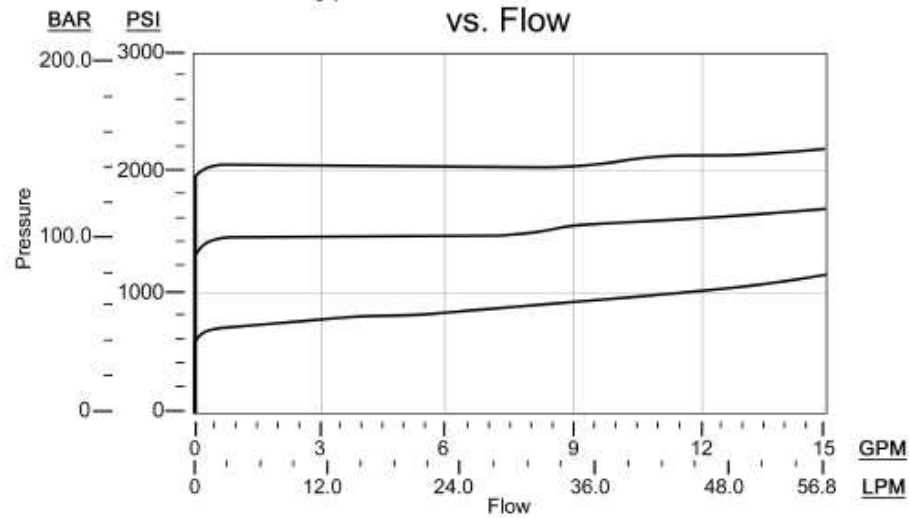
- Not suitable for use in load holding applications.
- The cartridge installation torque of 44 lbf ft (60 Nm) is required for best performance.
- Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio and should be limited to tank pressure.
- The adjustment mechanism under the tamper resistant cap can be fully uninstalled while the valve is in the cavity. This will expose system fluid to the atmosphere. Care should be taken when adjusting the valve setting while installed. The setting procedure is: check the setting, remove the pressure, adjust the valve, check the new setting.

PERFORMANCE CURVES

RDU A-A*
Typical Pressure Differential
vs. Flow



RDU A-B*
Typical Pressure Differential
vs. Flow



RDU A-C*
Typical Pressure Differential
vs. Flow

