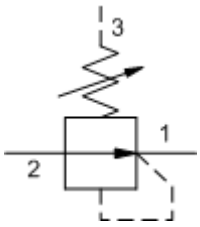
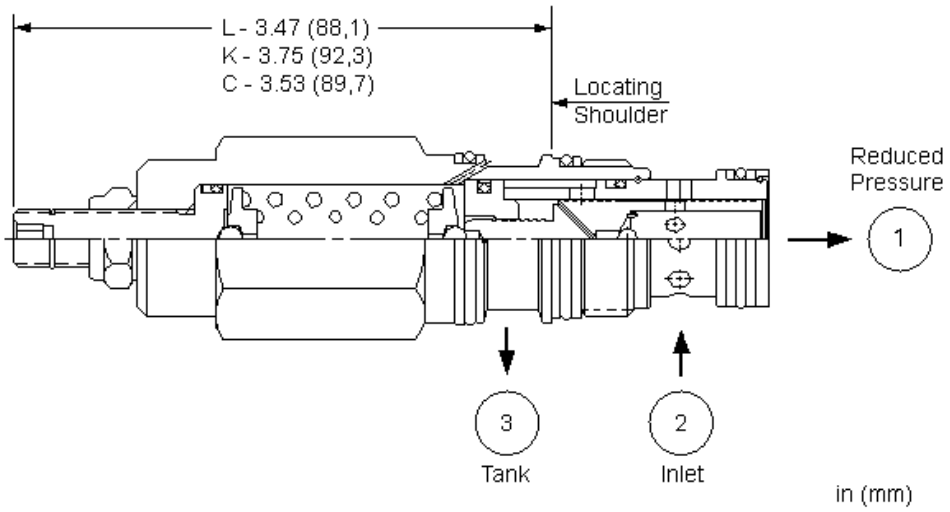


CONFIGURATION

L	Control	Standard Screw Adjustment
A	Adjustment Range	750 - 3000 psi (50 - 210 bar), 1000 psi (70 bar) Standard Setting
N	Seal Material	Buna-N
	Material/Coating	



Direct-acting, pressure reducing valves reduce a high primary pressure at the inlet (port 2) to a constant reduced pressure at port 1. These valves incorporate a damped construction for stable operation allowing the use of high reduced pressure.

TECHNICAL DATA

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

Cavity	T-2A
Series	2
Capacity	20 gpm
Maximum Operating Pressure	5000 psi
Factory Pressure Settings Established at	0.25 gpm
Maximum Valve Leakage at 110 SUS (24 cSt)	3 in^3/min.
Adjustment - No. of CW Turns from Min. to Max. setting	5
Valve Hex Size	1 1/8 in.
Valve Installation Torque	45 - 50 lbf ft
Adjustment Screw Internal Hex Size	5/32 in.
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Model Weight	.60 lb
Seal kit - Cartridge	Buna: 990-202-007
Seal kit - Cartridge	EPDM: 990-202-014
Seal kit - Cartridge	Polyurethane: 990-002-002
Seal kit - Cartridge	Viton: 990-202-006
Model Weight	

OPTION SELECTION EXAMPLE: PRFRLANV

CONTROL	(L)
L	Standard Screw Adjustment
C	Tamper Resistant - Factory Set
K	Handknob

ADJUSTMENT RANGE	(A)
A	750 - 3000 psi (50 - 210 bar), 1000 psi (70 bar) Standard Setting
B	300 - 1500 psi (20 - 105 bar), 500 psi (35 bar) Standard Setting
D	200 - 800 psi (14 - 55 bar), 400 psi (28 bar) Standard Setting
E	100 - 400 psi (7 - 28 bar), 200 psi (14 bar) Standard Setting
S	50 - 200 psi (3,5 - 14 bar), 100 psi (7 bar) Standard Setting
W	1000 - 4500 psi (70 - 315 bar), 1000 psi (70 bar) Standard Setting

SEAL MATERIAL	(N)
N	Buna-N
E	EPDM
V	Viton

MATERIAL/COATING	(/LH)
/LH	Mild Steel, Zinc-Nickel
/AP	Stainless Steel, Passivated
	Standard Material/Coating

TECHNICAL FEATURES

- Note: This valve has no relieving capability. It should not be used in a dead-headed application. If the reduced pressure side of the circuit has very low leakage the pressure may rise significantly. The pressure rise will vary from valve to valve.
- This type of valve, PR*R, is a good replacement for an LP*C as a normally open, restrictive compensating element if a higher pressure drop across an orifice is needed.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- Full reverse flow from reduced pressure (port 1) to inlet (port 2) may cause the main spool to close. If reverse free flow is required in the circuit, consider adding a separate check valve to the circuit.
- All spring ranges are tested for correct operation with 5000 psi (350 bar) inlet pressure.
- Suitable for accumulator circuits since the absence of pilot control flow results in reduced secondary circuit leakage.
- Direct operated version offers superior dynamic response compared to equivalent pilot operated models.
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 5000 psi (350 bar).
- Leakage specified in Technical Data is out of port 3 with a supply pressure of 2000 psi (140 bar) and the valve set at mid range. This leakage is directly proportional to pressure differential and inversely proportional to viscosity expressed in centistokes.
- 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