



Two-port, pilot-stage, direct-acting relief cartridges are fully adjustable, normally closed pressure regulating valves. When the pressure at port 1 (inlet) is sufficient to overcome the spring force (valve setting), a flow path is opened from port 1 to port 2 (tank).

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

Cavity	T-8A
Series	P
Capacity	2.5 gpm
Maximum Operating Pressure	5000 psi
Factory Pressure Settings Established at	2 in ³ /min.
Maximum Valve Leakage at 110 SUS (24 cSt)	15 drops/min.
Response Time - Typical	2 ms
Valve Hex Size	7/8 in.
Valve Installation Torque	20 - 25 lbf ft
Adjustment Screw Internal Hex Size	5/32 in.
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Seal kit - Cartridge	Buna: 990-608-007
Seal kit - Cartridge	EPDM: 990-608-014
Seal kit - Cartridge	Polyurethane: 990-008-002
Seal kit - Cartridge	Viton: 990-608-006

NOTES: • For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

OPTION SELECTION EXAMPLE: RBAELAN

CONTROL	(L)	ADJUSTMENT RANGE	(A)	SEAL MATERIAL	(N)	MATERIAL/COATING
L Standard Screw Adjustment		A 25 - 3000 psi (1,7 - 21.0 bar), 1000 psi (70 bar) Standard Setting		N Buna-N		Standard Material/Coating
C Tamper Resistant - Factory Set				E EPDM		/AP Stainless Steel, Passivated
K Handknob		B 25 - 1500 psi (1,7 - 105 bar), 1000 psi (70 bar) Standard Setting		V Viton		/LH Mild Steel, Zinc-Nickel
Y Tri-Grip Handknob		D 25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting				
		E 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting				

TECHNICAL FEATURES

- Utilizes the Sun T-8A 2-port cavity making it the ideal choice to use in conjunction with Sun's main stage pilot or vent-to-operate cartridges. Separate pilot lines are eliminated and only one cavity needs to be machined to accommodate both the control and primary function. Note: All 2-position, 2-way pilot stage control cartridges utilize the same cavity and are physically interchangeable. Functionality is the only consideration.
- Note: The main stage valve should first be installed to the correct torque value followed by the T-8A pilot control section into the main stage valve to its required torque value.
- Ports 1 and 2 may be pressured to 5000 psi (350 bar).
- Hardened poppet and seat provide consistent operation, low leakage rates and superior wear characteristics.
- Backpressure at port 2 (outlet) is directly additive to the pressure setting at port 1 (inlet).
- 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.
- 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

