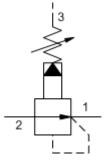


Pilot-operated, pressure reducing valve CAPACITY: 80 gpm / CAVITY: T-19A

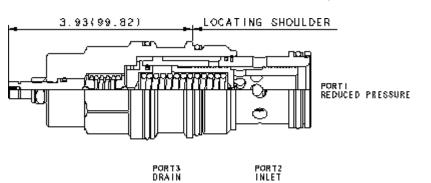


sunhydraulics.com/model/PBJB



CONFIGURATION

L	Control	Standard Screw Adjustment				
A	Adjustment Range	100 - 3000 psi (7 - 210 bar), 200 psi (14 bar) Standard Setting				
N	Seal Material	Buna-N				
	Material/Coating					



Pilot-operated, pressure reducing valves reduce a high primary pressure at the inlet (port 2) to a constant reduced pressure at port 1, allowing circuits with multiple pressure requirements to be operated using a single pump.

NOTE: DATA MAY VARYER HONCOMER DACTASEE CONFIGURATION SECTION.

Cavity	T-19A				
Series	4				
Capacity	80 gpm				
Maximum Operating Pressure	5000 psi				
Control Pilot Flow	15 - 20 in³/min.				
Factory Pressure Settings Established at	blocked control port (dead headed)				
Adjustment - No. of CW Turns from Min. to Max. setting	5				
Valve Hex Size	1 5/8 in.				
Valve Installation Torque	350 - 375 lbf ft				
Adjustment Screw Internal Hex Size	5/32 in.				
Locknut Hex Size	9/16 in.				
Locknut Torque	80 - 90 lbf in.				
Model Weight	2.89 lb.				
Seal kit - Cartridge	Buna: 990-019-007				
Seal kit - Cartridge	EPDM: 990-019-014				
Seal kit - Cartridge	Polyurethane: 990-019-002				
Seal kit - Cartridge	Viton: 990-019-006				

NOTES: • Maximum pressure differentials for spring ranges: A and B are 3000 psi (210 bar) N and Q are 2000 psi (140 bar) W is 5000 psi (350 bar)inlet pressure

OPTION SELECTION EXAMPLE: PBJBLAN

CONTROL (L)		(L)	ADJUSTMENT RANGE (A)		SEAL MATERIAL (N)		MATERIAL/COATING		(/LH)	
L	Standard Screw Adjustment		А	100 - 3000 psi (7 - 210 bar), 200 psi	Ν	Buna-N		/LH	Mild Steel, Zinc-Nickel	
С	Tamper Resistant - Factory Set			(14 bar) Standard Setting	Е	EPDM		/AP	Stainless Steel, Passivated	
к	Handknob		в	50 - 1500 psi (3,5 - 105 bar), 200 psi (14 bar) Standard Setting	v	Viton			Standard Material/Coating	
Q W	Capped and Lockwired Hex Wrench Adjustment		J	25 - 1500 psi (1,7 - 105 bar), 200 psi (14 bar) Standard Setting						
Y	Tri-Grip Handknob		Ν	60 - 800 psi (4 - 55 bar), 200 psi (14 bar) Standard Setting						
			Q	60 - 400 psi (4 - 28 bar), 200 psi (14 bar) Standard Setting						
			w	150 - 4500 psi (10,5 - 315 bar), 200						

TECHNICAL FEATURES

- All three-port pressure reducing and reducing/relieving cartridges are physically interchangeable (i.e. same flow path, same cavity for a given frame size). When considering mounting configurations, it is sometimes recommended that a full capacity return line (port 3) be used with reducing/relieving cartridges.
- 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.
- If pilot flow consumption is critical, consider using direct acting reducing/relieving valves.

psi (14 bar) Standard Setting

- Main stage orifice is protected by a 150 micron stainless steel screen.
- Recommended maximum inlet pressure is determined by the adjustment range. Ranges D, E, N, and Q are tested with a 2000 psi (140 bar) maximum differential between inlet and reduced pressure. Ranges A, B, and H are tested with a 3000 psi (210 bar) maximum differential between inlet and reduced pressure. Ranges C and W are tested with 5000 psi (350 bar) of inlet pressure.
- Pilot operated valves exhibit exceptionally flat pressure/flow characteristics, are very stable and have low hysteresis.
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 5000 psi (350 bar).
- Pilot operated reducing, reducing/relieving valves by nature are not fast acting valves. For superior dynamic response, consider direct acting valves.
- 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

