





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.

TECHNICAL DATA

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

CONFIGURATION

L	Control	Standard Screw Adjustment			
A	Adjustment Range	75 - 3000 psi (5 - 210 bar), 200 psi (14 bar) Standard Setting			
N	Seal Material	Buna-N			
(none) Material/Coating					

Cavity	T-163A		
Series	0		
Capacity	20 L/min.		
Maximum Operating Pressure	350 bar		
Factory Pressure Settings Established at	blocked control port (dead headed)		
Control Pilot Flow	0,11 - 0,16 L/min.		
Adjustment - No. of CW Turns from Min. to Max. setting	5		
Valve Hex Size	19,1 mm		
Valve Installation Torque	27 - 33 Nm		
Adjustment Screw Internal Hex Size	4 mm		
Locknut Hex Size	12,7 mm		
Locknut Torque	9 - 10 Nm		
Seal kit - Cartridge	Buna: 990163007		
Seal kit - Cartridge	Polyurethane: 990163002		
Seal kit - Cartridge	Viton: 990163006		
Model Weight	0.11 kg.		

CONFIGURATION OPTIONS

Model Code Example: PBBBLAN

CONTROL (L)		ADJUSTMENT RANGE (A)	SEAL MATERIAL	(N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob W Hex Wrench Adjustment 		 A 75 - 3000 psi (5 - 210 bar), 200 psi (14 bar) Standard Setting W 75 - 4500 psi (5 - 315 bar), 200 psi (14 bar) Standard Setting B 75 - 1500 psi (5 - 105 bar), 200 psi (14 bar) Standard Setting N 75 - 800 psi (5 - 55 bar), 200 psi (14 	N Buna-NE EPDMV Viton		Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

bar) Standard Setting Q 75 - 400 psi (5 - 28 bar), 200 psi (14 bar) Standard Setting

TECHNICAL FEATURES

- 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.
- Minimum setting is 75 psi (5 bar) for all spring ranges.
- 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).
- Recommended maximum inlet pressure is determined by the adjustment range. Ranges A, B, N, and Q are tested with a 3000 psi (210 bar) maximum differential between inlet and reduced pressure. Range W is tested with 5000 psi (350 bar) of inlet pressure.
- 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



