

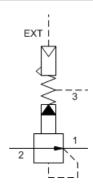
Air-controlled, pilot operated, pressure reducing valve

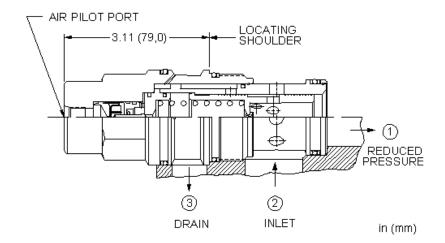
Capacity: 80 gpm (320 L/min.)

> Model: PBJC

Product Description

Air-controlled, pilot-operated pressure reducing cartridges use compressed air over a diaphragm instead of an adjustable spring as the setting to reduce a high primary pressure at the inlet (port 2) to a constant reduced pressure at port 1. The air signal is supplied through a port in the hex-end of the cartridge and the hydraulic setting is directly proportional to the air setting at a ratio of 20:1 (hydraulic:air).





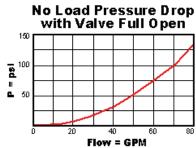
Technical Features

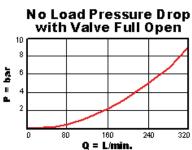
- Full reverse flow from reduced pressure (port 1) to inlet (port 2) may cause the main spool to close. If reverse free flow is required in the circuit, consider adding a separate check valve to the circuit.
- The pressure at port 3 determines the minimum valve setting and should not exceed 1000 psi (70 bar).
- The full adjustment range is 50 to 1500 psi (3,5 to 105 bar).
- strength of the diaphragm.
- Maximum pressure differential, inlet to outlet, should not exceed 3000 psi (210 bar).

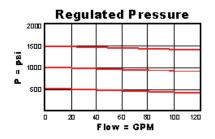
- Pilot operated reducing, reducing/relieving valves by nature are not fast acting valves. For superior dynamic response, consider direct acting valves.
- The air control feature allows explosion proof remote control.
- All three-port pressure reducing and reducing/relieving cartridges are
 physically 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.
- Maximum air pressure should not exceed 150 psi (10,5 bar) due to the 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.

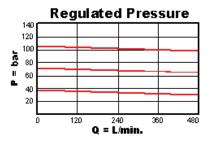
Technical Data

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	U.S. Units	Metric Units
Cavity	T-19A	
Capacity	80 gpm	320 L/min.
Pilot Ratio	20:1	
Control Pilot Flow	15 - 20 in³/min.	0,25 - 0,33 L/min.
Maximum Air Pressure	150 psi	10,5 bar
Maximum Operating Pressure	2000 psi	140 bar
Series (from Cavity)	Series 4	
Valve Hex Size	1 5/8 in.	41,3 mm
Valve Installation Torque	350 - 375 lbf ft	475 - 500 Nm
Adjustment Locknut/Cap Hex Size	9/16 in.	15 mm
Adjustment Nut Torque	80 - 90 lbf in.	9 - 10 Nm
Seal Kits - Cartridge	Buna: 990-019-007	
Seal Kits - Cartridge	Viton: 990-019-006	
Model Weight	2.84 lb.	1.29 kg.









PBJC-BBN

Control Operating Range Seal Material
Standard Options Standard Options Standard Options

B External 4-SAE Port B 50 - 1500 psi (3,5 - 105 bar) N Buna-N
V Viton