

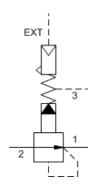
## Air-controlled, pilot operated, pressure reducing valve

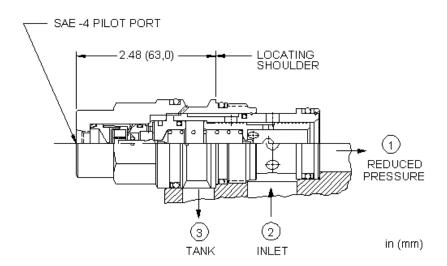
Capacity: 40 gpm (160 L/min.)

> Model: **PBHC**

## 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).





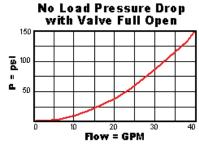
## Technical Features

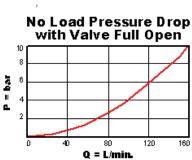
- Full reverse flow from reduced pressure (port 1) to inlet (port 2) may cause the main spool to close. If reverse free flow is required in the circuit, consider adding a separate check valve to the circuit
- The pressure at port 3 determines the minimum valve setting and should not exceed 1000 psi (70 bar)
- The full adjustment range is 50 to 1500 psi (3,5 to 105 bar).
- Maximum air pressure should not exceed 150 psi (10,5 bar) due to the
   Incorporates the Sun floating style construction to minimize the strength of the diaphragm.
- Maximum pressure differential, inlet to outlet, should not exceed 3000 psi (210 bar).

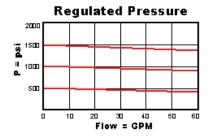
- Pilot operated reducing, reducing/relieving valves by nature are not fast acting valves. For superior dynamic response, consider direct
- The air control feature allows explosion proof remote control.
- $\bullet$  All three-port pressure reducing and reducing/relieving cartridges are physically interchangeable (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.
- possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

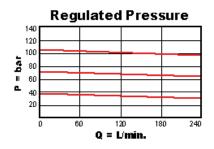
Technical Data

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	U.S. Units	Metric Units	
Cavity	T-17A		
Capacity	40 gpm	160 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 3		
Valve Hex Size	1 1/4 in.	31,8 mm	
Valve Installation Torque	150 - 160 lbf ft	200 - 215 Nm	
Adjustment Screw Internal Hex Size	5/32 in.	4 mm	
Adjustment Locknut/Cap Hex Size	9/16 in.	15 mm	
Adjustment Nut Torque	80 - 90 lbf in.	9 - 10 Nm	
Seal Kits - Cartridge	Buna: 990-017-007		
Seal Kits - Cartridge	Viton: 99	Viton: 990-017-006	
Model Weight	1.22 lb.	0.55 kg.	









## PBHC-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