

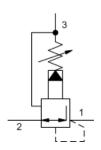
### Pilot operated, pressure reducing/relieving valve

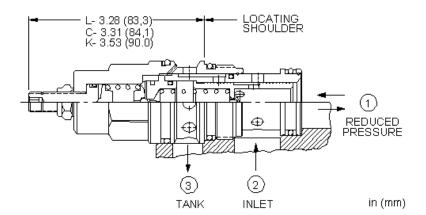
Capacity: 40 gpm (160 L/min.)

> Model: **PPHB**

#### Product Description

Pilot-operated, pressure reducing/relieving valves reduce a high primary pressure at the inlet (port 2) to a constant reduced pressure at port 1, with a full-flow relief function from port 1 to tank (port 3).





### Technical Features

- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 3000 psi (210 bar).
- Pilot operated reducing, reducing/relieving valves by nature are not fast . If pilot flow consumption is critical, consider using direct acting acting valves. For superior dynamic response, consider direct acting valves
- 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.

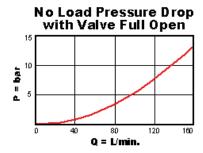
- All three-port pressure reducing and reducing/relieving cartridges are physically interchangeable (i.e. same flow path, same cavity for a given frame size). When considering mounting configurations, it is sometimes recommended that a full capacity return line (port 3) be used with reducing/relieving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

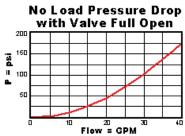
## Special Notes

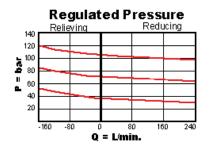
Maximum pressure differentials for spring ranges: A and B are 3000 psi (210 bar) N and Q are 2000 psi (140 bar) W is 5000 psi (350 bar)inlet pressure

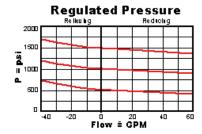
Technical Data

U.S. Units	Metric Units
T-17A	
40 gpm	160 L/min.
15 - 20 in³/min.	0,25 - 0,33 L/min.
blocked control port (dead headed)	
5000 psi	350 bar
Series 3	
5	
1 1/4 in.	31,8 mm
150 - 160 lbf ft	200 - 215 Nm
5/32 in.	4 mm
9/16 in.	15 mm
80 - 90 lbf in.	9 - 10 Nm
Buna: 990-017-007	
Viton: 990-017-006	
1.24 lb.	0.56 kg.
	T- 40 gpm 15 - 20 in³/min. blocked control p 5000 psi  Ser  1 1/4 in. 150 - 160 lbf ft 5/32 in. 9/16 in. 80 - 90 lbf in. Buna: 99 Viton: 99









# PPHB-LAN

Control	Adjustment Range	Seal Material	Material/Coating Modifier
Preferred Options	Preferred Options	Preferred Options	Preferred Options
L Standard Screw Adjustment Standard Options	A 100 - 3000 psi (7 - 210 bar), 200 psi (14 bar) Standard Setting	N Buna-N Standard Options	No modifier (standard material with no special coating)  Special Options
C* Tamper Resistant - Factory Set K Handknob	W 150 - 4500 psi (10,5 - 315 bar), 200 psi (14 bar) Standard Setting Standard Options	V Viton	/AP Stainless Steel, Passivated  Control: C
	B 50 - 1500 psi (3,5 - 105 bar), 200 psi (14 bar) Standard Setting N 60 - 800 psi (4 - 55 bar), 200		Our stainless product line is growing! If you are interested in a stainless option for this model which is not shown please contact Sun.
	psi (14 bar) Standard Setting  Q 60 - 400 psi (4 - 28 bar), 200 psi (14 bar) Standard Setting		307,430, 347,

Capped and Lockwired

- C 150 6000 psi (10,5 420 bar), 1000 psi (70 bar) Standard Setting
- D 25 800 psi (1,7 55 bar), 200 psi (14 bar) Standard Setting
- E 25 400 psi (1,7 28 bar), 200 psi (14 bar) Standard Setting
- H 30 3000 psi (2 210 bar), 200 psi (14 bar) Standard Setting

When the modifier is /AP, the control must be C or L

\* Special Setting required, specify at time of order Customer specified setting stamped on hex.

Related Models PPHB8