Back Pressure Regulating with PBP Back-Pressure Pilot

Back Pressure Pilot	PBP	
Pilot Body Material	Ductile	Iron
Max Inlet Pressure	300 PSI	G
Reduced Outlet Pressure Range	10-200	PSIG
Inlet Pressure Range (when used with HD Standard main valve)	15-300	PSIG
Inlet Pressure Range (when used with HD-LP Low-Pressure main		PSIG

Minimum Differential Pressure:

10 PSI (Standard Main Valve)
3 PSI (Low Pressure Main Valve)



The **PBP-Back Pressure Pilot**, used with the **HD** regulator, maintains upstream pressure in steam systems. These regulators are commonly used to supply flash steam to low pressure mains.

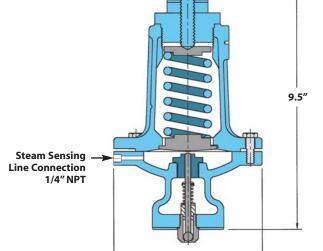
Features

- The PBP-Pilot can maintain upstream pressure to ±1 PSIG
- Choices of three overlapping pressure ranges
- Pilot is easily installed using four bolts. No tubing connection required
- Full port strainer and blowdown valve on pilot adapter for protection of pilot from dirt and scale
- Solid floating (no penetration hole) pilot diaphragm resists failure
- Watson McDaniel's pilots can be used with other manufacturers' regulators

Option

Can be used with solenoid pilot for on/off control

Reduced Pressure Range PSI	Model Code	Spring Colo r	Weight lb s
10-25	PBP-Y	Yellow	10
20-100	PBP-B	Blue	10
80-200	PBP-R	Red	10



5.0"

Pressure Adjusting

Screw

OPERATING PRESSURES

Inlet Pressure Range:

15-300 PSIG (Standard Main Valve)
5-20 PSIG (Low Pressure Main Valve)

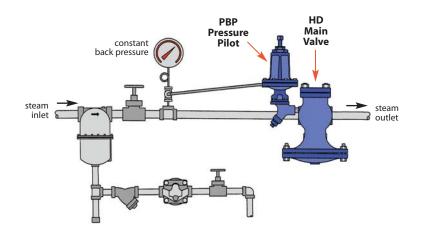
Minimum Differential Pressure:

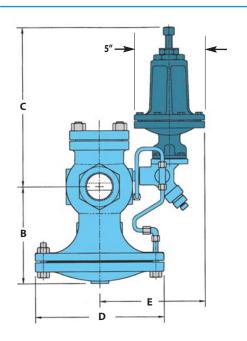
10 PSI (Standard Main Valve)
3 PSI (Low Pressure Main Valve)

Back Pressure Regulating with PBP Back-Pressure Pilot

Back Pressure

The PBP Back-Pressure Pilots are used with HD Regulators to maintain upstream pressures in steam systems. When the upstream pressure reaches the pilot set point, the regulator opens. The HD Regulator with a PBP Back-Pressure Pilot is commonly used to supply steam to low-pressure mains. The PBP Back-Pressure Pilot maintains a constant back-pressure on the inlet side of the regulator. Should not be used in place of a safety relief valve.





DIME	DIMENSIONS HD-Series - inches								
	Face-To-Face						Weigh	t (lbs)	
Size	NPT	150#	300#	В	C*	D	E**	NPT	FLG
1/2"	43/8			51/2	117/8	61/2	73/4	18	
3/4"	43/8			51/2	117/8	61/2	73/4	18	
1″	5 ³ /8	51/2	6	61/4	117/8	7	73/4	23	35
11/4"	61/2			73/8	117/8	83/4	81/4	43	
11/2"	71/4	6 ⁷ /8	7 3/8	73/8	117/8	83/4	81/4	43	60
2″	71/2	81/2	9	81/4	117/8	10 ⁷ /8	81/2	65	85
21/2"		93/8	10	9	117/8	113/4	81/2		105
3″		10	103/4	8 7/8	117/8	131/4	91/2		145
4"		117/8	121/2	10 ⁷ /8	117/8	143/4	101/2		235
6"		15 ¹ /8	16	14 1/8	121/2	193/4	113/4		470

MATERIALS for PBP Back-Pressure Pilot				
Pilot Body & Cover	Cast Steel			
Head & Seat Gasket	302 SS			
Diaphragm	Phosphor Bronze			
Head & Seat Assembly	Hardened SST (55 Rc)			

MATERIALS for HD Main Valve		
Body	Ductile Iron	
Cover	Ductile Iron	
Gasket	Grafoil/Garlock	
Cover Screws	Steel	
Pilot Adapter	Ductile Iron/Cast Steel	
Screen	Stainless Steel	
Tubing	Copper	
Valve Seat	Hardened SST (55 Rc)	
Valve Disc	Hardened SST (55 Rc)	
Diaphragm	Phosphor Bronze	

