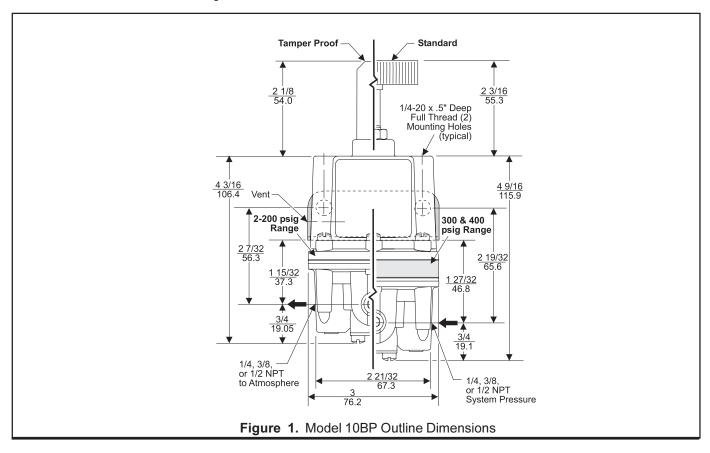
FAIRCHILD MODEL 10BP BACK PRESSURE REGULATOR Installation, Operation and Maintenance Instructions



INSTALLATION

You can mount the Model 10BP regulator in any position without affecting its operation.

Clean all pipelines to remove dirt and scale before installation.

Apply a minimum amount of pipe compound to the male threads of the fitting only. **Do Not use teflon tape as a sealant.** Start with the third thread back and work away from the end of the fitting to avoid contaminating the regulator. Install the regulator in the air line.

The Inlet and Outlet ports are labeled "In" and "Out". Tighten all connections securely. Avoid undersized fittings that limit the flow through the regulator. For more information, see Figure 1.

NOTES: Oil free air must be applied to the regulator. Use a filter to remove dirt and entrained liquid in the air line ahead of the regulator. If an air line lubricator is used, it MUST be located downstream of the regulator to avoid interference with performance.

OPERATION

The Model 10BP regulator ships from the factory set at approximately midrange. When you install the regulator, use the KnobAssembly to set the required relief pressure, approximately. Full range setting requires about 13 to 16 turns depending on the range of the unit. Turn the Knob Assembly slowly in a clockwise direction to increase the setpoint or back pressure. Turn the knob in a counterclockwise direction to decrease the setting. For more information, see Figure 1.

MAINTENANCE

To clean the Model 10BP, use the following steps:

- Shut off system pressure to the regulator to prevent air from escaping. It is not necessary to remove the regulator from the air line.
- 2. Turn the Knob Assembly counterclockwise to relieve the compression on the Range Spring.
- Remove the six Screws from the Bonnet Assembly. For more information, see Figure 2.
- 4. Remove the Bonnet, Spring and Diaphragm Assembly. For more information, see **Figure 2**.
- Wash the Diaphragm Assembly with a solvent. Exercise care to prevent dam age to diaphragms and valve facings. Avoid solvents such as acetone, carbon tetrachloride and trichlorethylene.
- 6. Carefully reassemble the unit. Ensure that the Vent in the Bonnet is clear. For more information, see **Figure 2**.

Troubleshooting

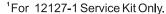
Problem	Source	Solution
Leakage	Body ScrewsDiaphragm	Tighten the screws.
Difficult to	Adjusting Screw and Ball	Adjust the screw and ball.
adjust	Seal ring lubrication	Check the lubrication.

NOTE:

If the standard maintenance procedure does not correct the problem, install the appropriate service kit.

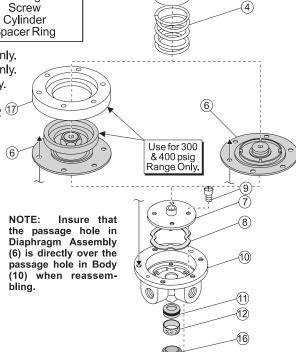
Range
2-150 psig
300 psig
400 psig

Tab	Table 1. Model 10BP Components		
Item	Part Number	Description	
1	NS	Knob Assembly	
1 2 3 4 5 6 6 3 7 8 4 9 10 11 5 11 3	NS	Bonnet Assembly	
3	NS	Spring Seat	
4	NS	Spring	
5	NS	Screw	
61	8708	Diaphragm Assembly	
6°	10686	Diaphragm Assembly	
6°	11954	Diaphragm Assembly	
7	NS	Seal Plate Assembly	
8 ⁴	6053	Seal Plate Gasket	
9	NS	Screw	
10	NS	Body Assembly	
111	6070	Seat Ring Assembly	
111	8161	Seat Ring Assembly	
12⁴	6017	Filter Screen	
13	NS 100 110 1 70	Retainer Plate	
14 5	130-112-1-70	O-ring	
14 ³	130-112-4-60	O-ring	
15	NS	Screw	
16⁴ 17	-9585 NS	Cylinder Spacer Bing	
L17	I NO	Spacer Ring	



²For 12127-2 Service Kit Only.

⁵For 12127-1 and 12127-2 ⁽¹⁷⁾ Service Kits.



Standard

Figure 2. Model 10BP Exploded Drawing







³For 15743 Service Kit Only.

^⁴For All Service Kits.