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FAIRCHILD MODEL 1500A POSITIVE BIAS RELAY Installation, Operation and Maintenance Instructions



INSTALLATION

Use the two 1/4-20 tapped holes in the Bonnet to panel mount the Model 1500A. You can mount the relay 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 relay. Install the relay in the air line.

The Inlet and Outlet ports are labeled "In" and "Out". Tighten all connections securely. Avoid undersized fittings that will limit the flow through the relay. For more information, see Figure 1. NOTES: Oil free air must be applied to the relay. Use a filter to remove dirt and entrained liquid in the air line ahead of the relay. If an air line lubricator is used, it MUST be located downstream of the relay to avoid interference with performance.

OPERATION

The Model 1500A uses the input signal and a fixed bias to control output pressure. To decrease the bias pressure, turn the Range Screw counterclockwise. To increase the bias pressure, turn the knob clockwise. (Po=Ps+K); where Po is output pressure, Ps is signal pressure, and K is the spring constant set by the Range Screw. For more information, see Figure 1. To clean the Model 1500A, use the following steps:

- 1. Shut off system pressure to the relay to prevent air from escaping. It is not necessary to remove the relay from the air line.
- 2. Remove the four Screws and Washers (between ports) from the bottom of unit. For more information, see Figure 2.
- **3.** Remove the Inner Valve Assembly. For more information, see Figure 2.
- 4. Wash the Inner Valve Assembly with a solvent. Exercise care to prevent damage to diaphragms and valve facings. Avoid solvents such as acetone, carbon tetrachloride and trichlorethylene.
- 5. Replace the assembly carefully. Ensure that the Vent in the exterior part of the Inner Valve Assembly and the Exhaust Vents in the Spacer Ring are clear. For more information, see Figure 2.

Problem	Source	Solution
Leakage	Bonnet Screws	Tighten the Bonnet Screws.
High Bleed	 Relief Valve Supply Valve Supply Seat 	 If contaminated, clean the source and Body.
	 Diaphragm Assembly 	 If damaged, install the service kit.

Troubleshooting

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

Standard	Tapped Exhaust
• 19553-1	• 19553-1E



LEGAL NOTICE:

The information set forth in the foregoing Installation, Operation and Maintenance Instructions shall not be modified or amended in any respect without prior written consent of Fairchild Industrial Products Company. In addition, the information set forth herein shall be furnished with each product sold incorporating Fairchild's unit as a component thereof.



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IS-3001500A Litho in USA Rev. B 08/05