

SINGER MODEL 83-RP

Pressure Relief Pilot Drawing A0781A Installation, Operation and Maintenance Instructions

DESCRIPTION:

Model 83-RP is a normally closed pilot that opens when the control pressure below the diaphragm exceeds the force of the spring.

INSTALLATION:

- 1. Flush system of all foreign matter before installing the valve.
- 2. The valve can be installed in any position.
- Check direction of flow and install the valve accordingly. Refer to enclosed schematic and check the arrow in the valve body.
- 4. Connect control tubing from the sensing connection of the valve to the point of control. Refer to enclosed schematic.

ADJUSTING PROCEDURE:

- 1. Loosen the locknut.
- Turn the adjusting screw clockwise for increased setting, counterclockwise for reduced setting.
- 3. Lock adjustment by tightening adjusting screw locknut.

DISASSEMBLY:

- 1. Turn Adjusting Screw (8) counterclockwise until Spring (7) is free.
- 2. Remove Body Capscrews (10).
- 3. Remove Seat Ring (3).
- 4. Resilient part of Inner Valve can be inspected once the Seat Ring has been removed.
- To remove Inner Valve (4), use a ¾" socket (not impact socket) to prevent the Inner Valve from turning when removing Inner Valve Nut (13).

SERVICE SUGGESTIONS:

FAILS TO OPEN

- 1. Spring overset.
- 2. Foreign material in valve.
- 3. Diaphragm ruptured.

FAILS TO CLOSE

- 1. Spring underset.
- 2. Foreign material in valve.





Nodel

83-RP

A0781A