

Differential Pressure Relief Pilot

The model 81-RPD is a remote sensing, high capacity, spring and diaphragm operated, normally closed, differential pilot. The inner valve is held closed by the spring. When the pressure under the diaphragm overcomes the combined forces of the spring setting and the pressure above the diaphragm, the pilot opens. The model 81-RPD is used for remote sensing of a differential pressure for normally closed applications.

Standard Materials:

Body: Brass	Inner Valve: SST & EPDM
Clamp Plates: Brass	Diaphragm: EPDM
Spring: SST	Fasteners: SST
Spring Step: Brass	O Ring Seals: BUNA
Seat Ring: SST	Spring Casing: Brass

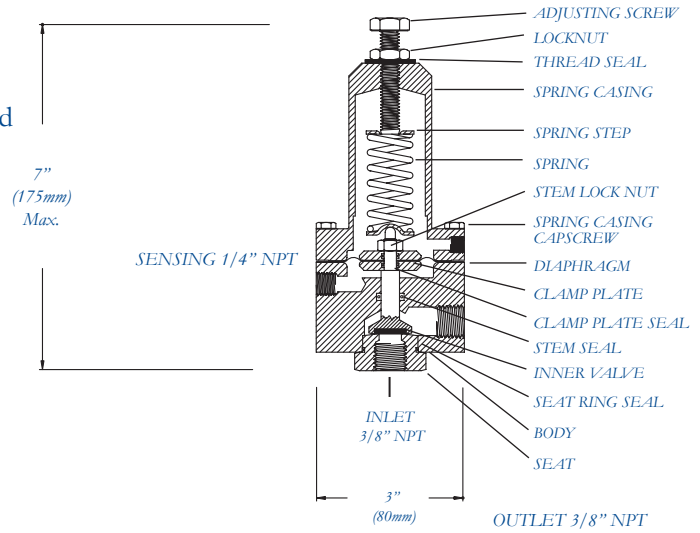
Options:

Available in all Stainless Steel construction.

When Ordering Please Specify

1. Catalog Model #. 2. Pilot Range
 May be included as standard with some products.

MODEL 81-RPD :
 DIFFERENTIAL PRESSURE RELIEF PILOT



SCHEMATIC A0662C

Specifications:

The pilot shall be Singer Model 81-RPD, with the spring range specified.

- The normally closed pilot shall be of brass and bronze construction with a spring to adjust the opening pressure differential.
- The pilot and inner valve shall be of stainless steel 316 construction and the inner valve shall have EPDM resilient compound for seating. The EPDM compound must be permanently bonded to the inner valve and be ground flat and square to assure maximum performance.
- The pilot shall be self-cleaning by locating the inlet directly into the seat area through the bottom of the pilot and the outlet ninety degrees to the inlet.
- Two separate ports (one above and one below the diaphragm), will sense a pressure differential allowing pilot and therefore the main valve to modulate subject to pressure differential, maintaining a constant set point.
- Maximum Working Temperature: 180 degree F (82 degree C)
- Maximum Working Pressure: 400 psi (27.6 bar)

- Spring Ranges: Standard: 20 to 200 psi (1.38 to 13.8 bar)
- Optional: 5 to 25 psi (.34 to 1.72 bar)
- 10 to 80 psi (.69 to 5.5 bar)
- 100 to 350 psi (6.9 to 24 bar)

- Approximate psi per Turn
- 25 PSI (1.7 bar) per Turn
- 3 PSI (.20 bar) per Turn
- 10 PSI (.69 bar) per Turn
- 41 PSI (2.82 bar) per Turn

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