



Model 81-RPD

Differential Pressure Relief Pilot

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 bar)

		Approximate PSI per Turn
• Spring Ranges: Standard:	20 to 200 psi (1.37 to 13.7 bar)	25 PSI (1.7 bar) per Turn
Optional:	5 to 25 psi (.34 to 1.72 bar)	3 PSI (.20 bar) per Turn
	10 to 80 psi (.69 to 5.5 bar)	10 PSI (.69 bar) per Turn
	100 to 350 psi (6.9 to 24 bar)	41 PSI (2.82 bar) per Turn