

"DP" Pilot

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Differential Pressure Pilot for HD Regulating Valves

Differential Pressure Pilot



PILOT-OPERATED REGULATING VALVES

- Max Inlet Pressure: 300 PSIG
- Reduced Outlet Pressure Range: 3-200 PSIG
- Min Inlet Pressures: 15 PSIG standard main valve
5 PSIG low pressure main valve
- DP-Pilot ± 2 PSIG accuracy

PRESSURE-ADJUSTING SPRING RANGES

"DP" Pressure Range	Identifying Colors
3-25 PSIG	yellow
20-100 PSIG	blue
80-200 PSIG	red

TYPICAL APPLICATIONS

The "DP" Differential Pressure Pilot is used with the HD Regulator to maintain steam pressure at a balanced differential pressure above another media source. This is typical on an oil burner where steam used for atomization is injected into the oil burner at a set pressure above the incoming oil supply. Therefore, as oil pressure fluctuates based on demand, the steam pressure will be maintained at a differential pressure above the oil pressure.

FEATURES

- The "DP" Differential Pressure Pilot is used to maintain downstream steam pressure to a set differential pressure above loading pressure
- Accuracy to within ±2 PSIG
- 3 overlapping spring ranges to choose from
- Pilot is installed using only four bolts
- Full port strainer and blowdown valve on pilot adapter for ultimate protection from dirt and scale
- Solid floating diaphragm
- Watson McDaniel's pilots can be used with other manufacturers' regulators

OPTIONS

- Solenoid pilot can be added for remote on/off control of regulator

MINIMUM OPERATING PRESSURES

Minimum Inlet Pressure:

- 15 PSIG (Standard Main Valve)
- 5 PSIG (Low Pressure Main Valve)

Minimum Differential Pressure:

- 10 PSI (Standard Main Valve)
- 3 PSI (Low Pressure Main Valve)

MATERIALS

Pilot Body & Cover	Ductile Iron & Cast Steel
Gasket	Grafoil
Diaphragm	Phosphor Bronze
Head & Seat Assembly	Hardened SST (55 Rc)

HOW TO ORDER

"DP" DIFFERENTIAL PRESSURE PILOT

Specify: • Reduced pressure range –

Example: "DP" Pilot at 3-25 PSIG, yellow

REGULATOR BODY

Specify: • HD regulator body

• Regulator size or capacity

• End connections (threaded, 150/300# flanged)

