

Differential Pressure

Pilot-Operated REGULATORS

Differential Pressure Pilot	PDP
Body Material	Ductile Iron
Max Inlet Pressure	300 PSIG
Reduced Outlet Pressure Range	3-200 PSIG
Inlet Pressure Range (with HD Standard main valve)	15-300 PSIG
(with HD-LP Low-Pressure main valve)	5-20 PSIG
Minimum Differential Pressure (with HD Standard main valve)	10 PSI
(with HD-LP Low-Pressure main valve)	3 PSI



Typical Applications

The **PDP-Differential Pressure Pilot** is used with the **HD Regulator** to maintain steam pressure at a set 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 pressure. When oil pressure fluctuates (based on demand), the steam pressure will maintain a constant differential pressure above the oil pressure.

Features

- The PDP-Differential Pressure Pilot is used to maintain downstream steam pressure to a set differential pressure above loading pressure
- Accuracy to within ± 2 PSI
- 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

MATERIALS for PDP Differential Pressure Pilot

Pilot Body & Cover	Ductile Iron & Cast Steel
Seat Gasket	302 SS
Diaphragm	Phosphor Bronze
Head & Seat Assembly	Hardened SST (55 Rc)

OPERATING PRESSURES

Inlet Pressure Range:

- 15-300 PSIG** (Standard Main Valve)
- 5-20 PSIG** (Low Pressure Main Valve)

Minimum Differential Pressure:

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

Pressure Range PSI	Model Code	Spring Color	Weight lbs
3-25	PDP-Y	Yellow	16
20-100	PDP-B	Blue	16
80-200	PDP-R	Red	16

How to Size / Order

PDP - DIFFERENTIAL PRESSURE PILOT

Specify: • Reduced pressure range –

Example: **PDP-Y**: PDP Pilot with 3-25 PSIG spring

REGULATOR BODY

Specify: • HD regulator body
• Regulator size or capacity
• End connections (threaded, 150/300# flanged)

