

Pulsation Dampener PD8100 Series

The PD8100 Series eliminates pointer flutter on pressure indicating Switchgag® devices which are subject to pulsating pressure from reciprocating pumps or compressors. It also allows a close setting of high and low contact points providing for more accurate pressure indication and control of equipment.

The PD8100 Series decreases wear on geared movements and increases the life of pressure indicating instruments by eliminating excessive gage strain and unnecessary movement, a necessity which quickly pays for itself by protecting any pressure indicating and control instrument which is subject to pulsation.

PD8100 SERIES IS NOT FOR USE ON OXYGEN OR LIQUID OXYGEN APPLICATIONS.

The PD8100 is quality built with a large diameter valve stem wheel for ease of adjustment and features clearly printed operating instructions.

Machined from 1 3/8-inch (35 mm) hex bar stock, a two degree taper on the valve and stem assure positive dampening.

It's available in brass, carbon steel, 303 stainless steel or 316 stainless steel to meet pressure and environmental requirements with either 1/2 NPT or 1/4 NPT inlet connections.

Specifications

See How to Order section for available inlet and outlet connections.

PD8183: All wetted parts are brass. Rated to 3000 psi (20.68 MPa) [206.80 bar]

PD8184: All wetted parts are carbon steel. Rated to 5000 psi (34.47 MPa) [344.70 bar]

PD8185: All wetted parts are 303 stainless steel. Rated to 10000 psi (68.95 MPa) [689.50 bar]

PD8190: All wetted parts are 316 stainless steel. Rated to 10000 psi (68.95 MPa) [689.50 bar]. Meets NACE standard MR- 01-75 for direct exposure to H₂S.

Operating Temperature: -15° to 400° F (-26° to 204° C)

Shipping Weight (all models): 2 lbs. (0.9 kg)

Shipping Dimensions (all models): 4 3/4 x 4 3/4 x 3 1/4 in. (121 x 121 x 83 mm)

MurphyMatic® Compressor Panel

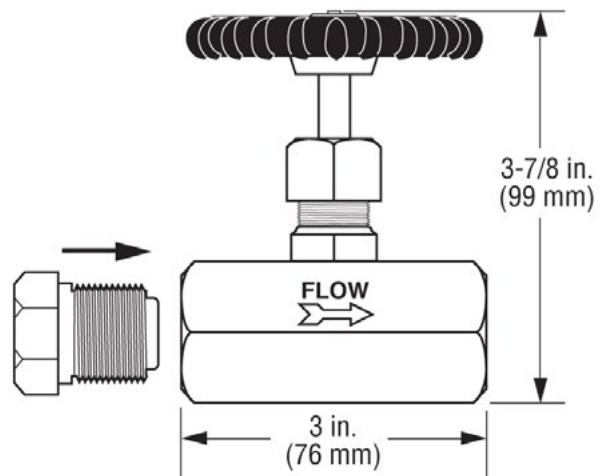
Shown at right is a typical MurphyMatic compressor panel featuring three Pulsation Dampeners and Murphy OPLFC gages.

The PDs are recommended for use on piston pumps and compressors to eliminate pointer contact flutter and gage wear.



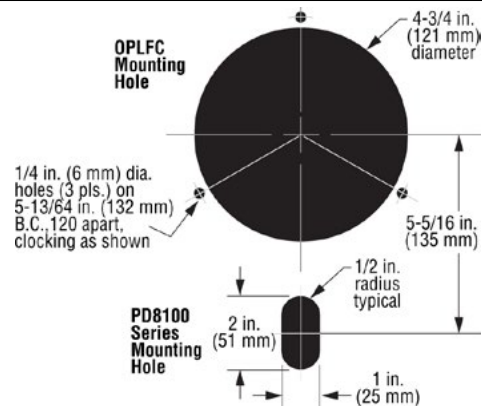
**NOT INTENDED FOR USE
AS A SHUTOFF VALVE**

Dimensions



Mounting

The PD8100 Series Pulsation Dampener is mounted directly below the OPLFS Pressure Switchgauge.



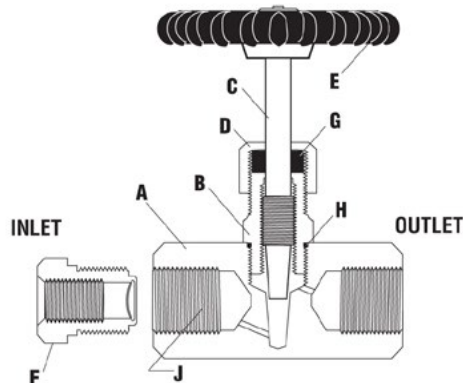
Precautions: Dope or use Teflon tape on connection threads. Do not block the inlet orifice.

How to Order

Options listed below. All configurations may not be available. Call your sales representative or Enovation Controls for more information.

| PD8185 | | - | 1/4 x 1/4 |
|------------|---|-----------|----------------------------------|
| Base Model | | | Connection Size |
| PD8183 | = Brass wetted parts, Rated to 3000 psi (20.68 MPa)[206.80 bar] | | |
| PD8184 | = Carbon Steel wetted parts, Rated to 5000 psi (34.47MPa) [344.70 bar] | | |
| PD8185 | = 303 Stainless Steel wetted parts, Rated to 10000 psi (68.95 MPa) [689.50 bar] | | |
| PD8190 | = 316 Stainless Steel wetted parts, Rated to 10000 psi (68.95 MPa) [689.50 bar]. Meets NACE standard MR- 01-75 for direct exposure to H ₂ S. | | |
| | | 1/4 x 1/4 | = 1/4 NPT Inlet x 1/4 NPT Outlet |
| | | 1/4 x 1/2 | = 1/4 NPT Inlet x 1/2 NPT Outlet |
| | | 1/2 x 1/2 | = 1/2 NPT Inlet x 1/2 NPT Outlet |
| | | 1/2 x 1/4 | = 1/2 NPT Inlet x 1/4 NPT Outlet |

| Part Number | | | | Description | Notes |
|-------------|----------|----------|----------|------------------------------------|------------------------------------|
| PD8183 | PD8184 | PD8185 | PD8190 | | |
| 65050104 | 65050210 | 65050204 | 65051136 | A. 1/2 NPT inlet x 1/4 NPT outlet* | Service Parts See Drawing Below |
| 65050105 | 65050212 | 65050206 | 65051135 | A. 1/2 NPT x 1/2 NPT outlet* | |
| 65050099 | 65050209 | 65050203 | 65051139 | B. Bonnet Fitting | |
| 65050175 | 65050208 | 65050202 | 65051140 | C. Valve Stem | |
| 65050098 | 65050211 | 65050205 | 65051137 | D. Packing Nut | |
| 55000179 | 55000179 | 55000179 | 55000179 | E. Hand Wheel (with 10-32 nut) | |
| 55000174 | 55000173 | 55000175 | 55000206 | F. Strainer Bushing Assembly† | |
| 00000936 | 00000936 | 00000936 | 00000936 | G. Molded Packing Gland | |
| 00000302 | 00000302 | 00000302 | 00000302 | H. O Ring Bonnet Seal | |
| 65050214 | 65050214 | 65050214 | 65050214 | J. Stainless Mesh Filter** | |



*For 1/4 NPT inlet use with strainer bushing assembly

†Provided only for units with 1/4 NPT inlet

**Provided in units with 1/2 NPT inlet.