Pulsation Dampener
PD8100 Series

The PD8100 Series eliminates pointer flutter on pressure indicating gage 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].
The PD8100 Series Pulsation Dampener is mounted directly below the OPLFS Pressure Gage.

Mounting

*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.

Precautions: Do not block the inlet orifice. Use caution when applying dope or teflon tape on connection threads.

Diagram

How to Order

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Notes</th>
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<tbody>
<tr>
<td>PD8183 55000179</td>
<td>Brass wetted parts, Rated to 3000 psi (20.68 MPa) [206.80 bar]</td>
<td>Service Parts</td>
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<tr>
<td>PD8184 55000179</td>
<td>Carbon Steel wetted parts, Rated to 5000 psi (34.47 MPa) [344.70 bar]</td>
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<tr>
<td>PD8185 55000179</td>
<td>303 Stainless Steel wetted parts, Rated to 10000 psi (68.95 MPa) [689.50 bar]</td>
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<tr>
<td>PD8185 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 H2S.</td>
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<tr>
<td>PD8190 55000179</td>
<td>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 H2S.</td>
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<td>Hand Wheel (with 10-32 nut)</td>
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<tr>
<td>Strainer Bushing Assembly†</td>
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