Diaphragm Seals available through

Mid-West® Instrument

Diaphragm Seals

Diaphragm seals use a flexible barrier, (the diaphragm) to isolate a differential pressure gauge, switch or transmitter sensor from the process media. This isolation eliminates many of the adverse effects the process poses to the differential pressure gauge. Use with Mid-West models 140 & 142 diaphragm type differential pressure gauges.

How do they work?

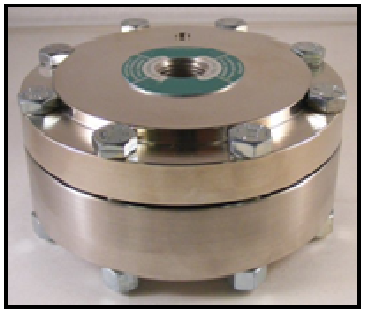
A Diaphragm Seal, when properly mounted and filled, will accurately transmit process pressure to the instrument. Pressure exerted on the flexible diaphragm is transmitted hydraulically to the instrument through the fill fluid, which fills the void between the diaphragm and the instrument.

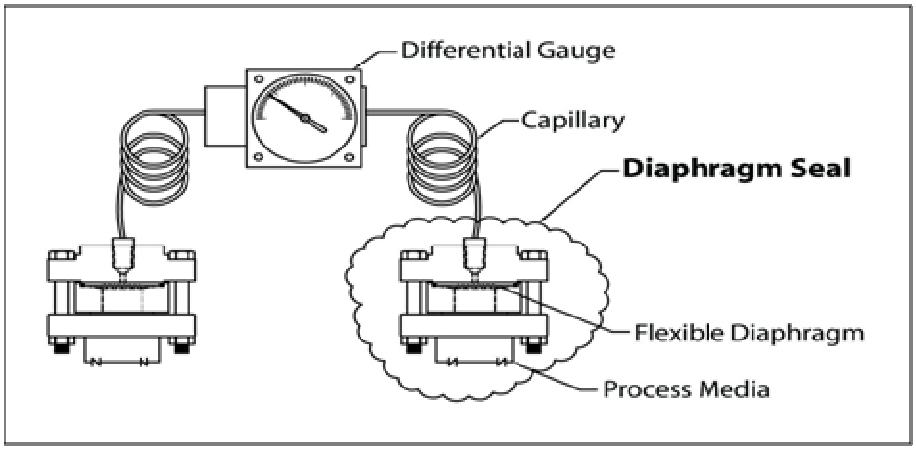
Common types of diaphragm seals:

Flanged Seals

Note:
Pipe unions or swivel connections are required for DP gauge assemblies.

Threaded Seals





Typical Differential Pressure Gauge and Diaphragm

Selection of the proper diaphragm seal for a given application is very important for safety and performance. Mid-West Instrument will be glad to assist you in selection of the most effective diaphragm seal system for your application.

The type of diaphragm seal needed will depend on the application information you provide below. Diaphragm seals may be used with Mid-West Differential Pressure Gauge Models 140 & 142 only.

The right seal for your application:

In order to recommend a diaphragm seal, we will need basic process and application information.

Please fill out the Diaphragm Seal Worksheet and email to sales@midwestinstrument.com.
or fax to 586-254-6509. We typically provide a response within 48 hrs.

6500 Dobry Dr. • Sterling Heights, MI USA • Tel: 800-648-5778 Fax 586-254-6509
Web Site: www.midwestinstrument.com • Email: sales@midwestinstrument.com

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Diaphragm Seal Worksheet

Customer Information:

- Company Name:_____
- Address_____
- Contact:_____
- Phone number: _____
- Email address: _____
- Date: _____

Process Information:

- Process Temperature Range: _____
- Ambient Temperature Range: _____
- Process Fluid/Media: _____
- Current Pipe/Tank Material: _____
- Maximum Pressure on Seal: _____
- Differential Pressure Range: _____
- Working Pressure on Seal: _____
- Other (vibration, pulsation, etc.): _____

Seal Information:

- Mounting - Direct or Remote: _____
- (if remote) Capillary Length: _____
- Process Connection: _____
- Required date for completed seal assembly?_____

Midwest Differential Gauge Information:

Model number used in application:_____

Quantity of differential gauges used in application:_____

Additional Notes:

_____

_____

_____

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_____

_____

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