

Diaphragm Seals are used to isolate a pressure measuring instrument like Gauges, Transmitters or Switches from the process media. It isolates and protects sensitive measuring Instruments and other system instrumentation from process fluid contamination and corrosion. Diaphragm seals create a barrier between the process media and the pressure sensing element, without compromising the instrument's sensitivity or accuracy.

Diaphragm Seals are typically made from a thin pressure-sensitive film out of metal or PVDF based on the process media, they are either welded or threaded to the housing and then integrated to the instrument. The space between the diaphragm seal and the pressure sensing element is then vacuumed out and replaced with a non-compressible fluid. This accurately transfers the process pressure without direct contact with process fluids.

Protect measuring Instruments from freezing, suspended impurities & slurries. Reduce costs by replacing expensive gauges with low cost utility gauges.

Features

- ◆ Compact Design
- ◆ Optimum Fill Fluid for Maximum Flexing of the Diaphragm
- ◆ Various Combinations of Top & Bottom Housing
- ◆ Various Diaphragm Materials to suit your Process Requirements
- ◆ Various options of Process and Instrument connections
- ◆ Heat Code Traceability
- ◆ NACE MR-01-75 Compliant materials available on request
- ◆ 3.1 Certificates
- ◆ Flushing port option is available

Applications

- ◆ Liquid & Gaseous Medium
- ◆ Corrosive Environments
- ◆ Offshore Oil Rigs & Platforms
- ◆ Chemical & Petrochemical Plants
- ◆ Power & Utility
- ◆ Water & Waste Water Treatment Facilities
- ◆ Other Critical Process Industries

Options

Top & Bottom Housing Options :

SS 316, Hastelloy S276, Monel, Super Duplex, Inconel

Diaphragm Materials Options :

SS 316L, Hastelloy C276, Monel, Super Duplex, Inconel

Pressure Rating Options :

Pressure ratings of upto 10,000 psi available as option

Fill Fluid Options:

Various Fill Fluid options are available. Fill Fluids are selected based on the Process parameters.

Diaphragm Seals can be supplied with Integrated Remote Capillary and Siphons.



Model Selection Guide

Description	Coding
Model	1
Magwell Welded Threaded Diaphragm Seal	MDS
Pressure Rating	2
Low Pressure	L
High Pressure	H
Top Housing Material (Non-Wetted Part)	3
SS 316L	S
Hastelloy C-276	H
Monel 400	M
Inconel	C
Super Duplex	D
Diaphragm Material (Wetted Part)	4
SS 316L	S
Hastelloy C-276	H
Monel 400	M
Inconel	C
Super Duplex	D
Bottom Housing (Wetted Part)	5
SS 316L	S
Hastelloy C-276	H
Monel 400	M
Inconel	C
Super Duplex	D

Description	Code
Process Connection Size	6
1/4" M	4
1/2" M	2
3/4" M	3
Process Connection Thread	7
NPT	N
BSP	B
Instrument Connection Size	8
1/4" F	4
1/2" F	2
3/4" F	3
Instrument Connection Thread	9
NPT	N
BSP	B
Options	10
316 L Tag Plate	TP
Material Test Certificate	MT
Nace Certification	NC
Fill Fluid	11
Consult the factory in case if integration with the Magwell Instruments like Pressure Gauge.	

Sample Model Selection Code

1	2	3	4	5	6	7	8	9	10		
MDS	L	S	S	S	2	N	2	N	TP	MT	

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