

MARSH®

Diaphragm Seal Gauges

Description

A diaphragm seal is a separator connected to either directly or via a capillary tube, to the pressure gauge to isolate it from the process fluid. They are also known as chemical seals, barrier seal or fluid separators.

These are used when; The process fluid can solidify or crystallize; When the process contains solid matter, or has a high viscosity; When the process fluid could corrode the measuring element.

Operation

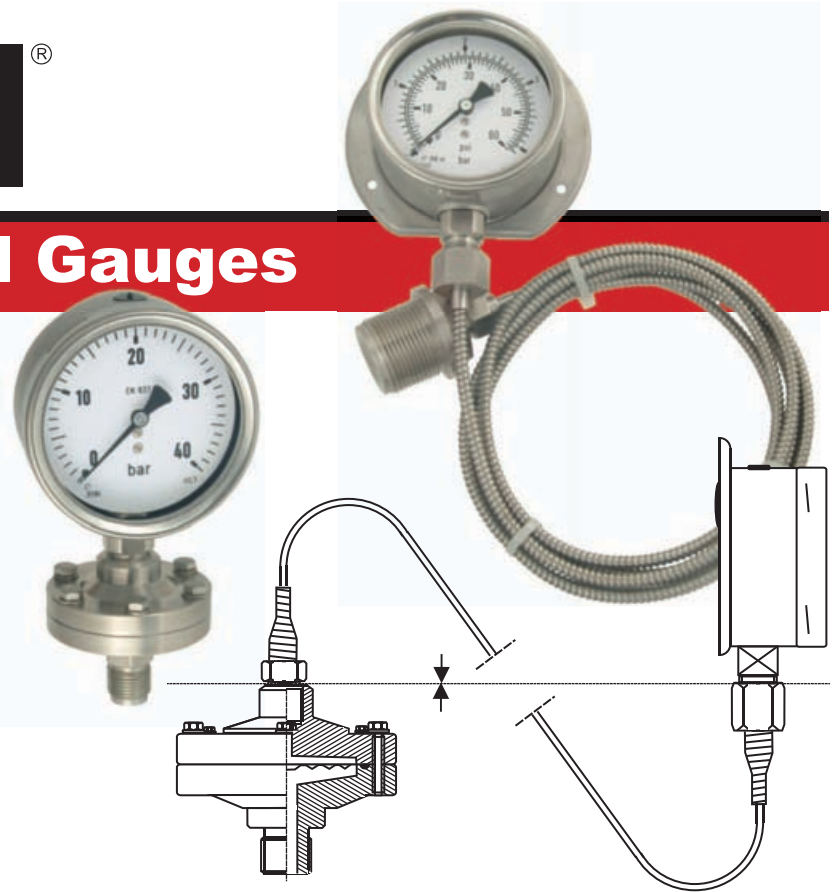
The diaphragm seal consists of an elastic element, [diaphragm] that isolates the process material from the pressure gauge element, transmitting the pressure through the compression of the filling medium to the gauge.

Connection

Direct mounting, or remote reading via a capillary tube. [Maximum length 15 metres.]

Fitting

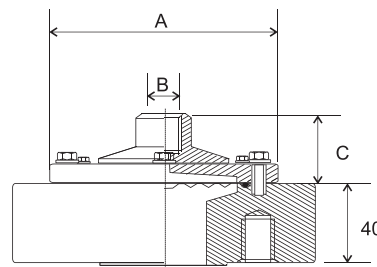
Diaphragm seals must be connected to the process by tightening using the spanner flats on the seal, and not by the gauge. On remote reading gauges, if the gauge is to be fitted higher than the seal, a feet head allowance should be made.



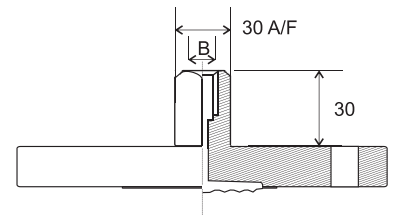
Specifications: Stainless Threaded Diaphragm Seals

Seal	316 Stainless Steel
Diaphragm	316 Stainless Steel
Working Temperatures	(deg.C): Max: 150 Min: -20
Connection	Flanged: BS, DIN, ANSI
Transmission Fluid	White Food Oil
Accuracy	1% direct reading, 1.5% remote reading (20 deg C)

Model FS 75 - SS : range 1 - 160 bar



Model FS 75 - FW : range 1 - 400 bar



Specifications: Stainless Bolted Diaphragm Seals

Upper Chamber	316 Stainless Steel 6 off m6 bolts
Lower Chamber/Flange	316 Stainless Steel
Diaphragm	316 Stainless Steel
Bolts	304 Stainless Steel
Seals	Viton Rubber
Working Temperatures	(deg. C):- Max: 150 Min: -20
Connection	Flanged: BS, DIN, ANSI
Transmission Fluid	White Food Oil
Accuracy	1% direct reading, 1.5% remote reading (20 deg C)

MARSH BELLOFRAM®
Group of Companies

9 Castle Park Queens Drive, Nottingham NG2 1AH England

Tel: (44) 115 993 3300 • Fax: (44) 115 993 3301 • e-mail: bellofram@aol.com • www.marshbellofram.com

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