



# DIAPHRAGM SEALS

Diaphragm seals are manufactured for use on corrosive applications or where the mediums contain solids. They can be fitted with a vast array of pressure and vacuum gauges with dial sizes from 63mm up to 200mm in diameter. The normal working temperature of a diaphragm seal is up to 100 deg C, but these can be rated as high as 250 deg C when the system is filled with HT silicon oil and the gauge is mounted via an extended neck or capillary tubing.

Diaphragm seals normal material of construction is 316 stainless steel for general non corrosive processes, but also can be offered in certain types of materials such as Monel, Hastelloy, Tantalum, Titanium, PVC, PVDF, PTFE lined or coated.

Diaphragm seals are normally manufactured with male threads from 1/4" up to 1/2" BSPT or NPT but can be offered with threads as large as 2" BSP in our Plug type.

Connections can also be offered with female threads or special connections to suit your application. Diaphragm material is normally 316 stainless steel and on abrasive applications we can offer with rubber protection.



# DIAPHRAGM SEALS



Type GPSS



Type GPLP



Type TRI



Type BSM



Type PL



Materials Of Construction	Pressure Range	Process Connection	Operating Temperatures
4 Bolt Clean-Out Type, 316 stainless steel top and bottom chambers, with welded diaphragm Buna "O" ring Options: Monel Construction PTFE coated wetted parts, PTFE "O" ring	4 Bolt 250kPa — 6000kPa 8 Bolt 8000kPa —25000kPa	Standard Male BSPT 1/4", 3/8" 1/2", 3/4", 1"  Options: Male NPT Female BSPT or NPT	When filled with HT silicon up to 150 deg C If fitted with high temperature "O" ring extended cooling neck or capillary between the gauge and seal suitable for temperatures up to 250 deg C
6 Bolt Clean-Out Type, 316 stainless steel top and bottom chambers, with welded diaphragm Buna "O" ring Options: Monel Construction PTFE coated wetted parts, PTFE "O" ring	-100-0 kPa Vacuum Up to 250 kPa	Standard Male BSPT 1/4", 3/8" 1/2", 3/4", 1"  Options: Male NPT Female BSPT or NPT	Up to 100 deg C Maximum when filled with HT Silicon oil
Triclover, Hygienic diaphragm seal, 316 stainless steel with welded diaphragm	-100-0 kPa Vacuum Up to 4000 kPa	1-1/2 Inch 2 Inch	-20/120 deg C  Up to 250 deg C When filled with HT silicon oil and fitted with cooling extension or capillary
BSM, Hygienic diaphragm seal, 316 stainless steel with welded diaphragm	-100-0 kPa Vacuum Up to 4000 kPa	1-1/2 Inch 2 Inch	-20/120 deg C  Up to 250 deg C When filled with HT silicon oil and fitted with cooling extension or capillary
Plug diaphragm seal, 316 stainless steel with welded diaphragm	Up to 60,000 kPa	Male BSPP or NPT 1/2" 3/4" 1" 1-1/2" 2"	When filled with HT silicon up to 150 deg C If fitted with high temperature "O" ring extended cooling neck or capillary between the gauge and seal suitable for temperatures up to 250 deg C

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Materials Of Construction	Pressure Range	Process Connection	Operating Temperatures
Flange flush diaphragm , type 316 stainless steel with welded diaphragm	CLASS 150 300 600 900	1-1/2" ANSI 2" ANSI 3" ANSI	When filled with HT silicon up to 150 deg C If fitted with high temperature "O" ring extended cooling neck or capillary between the gauge and seal suitable for temperatures up to 250 deg C
Flange cotton reel type diaphragm 316 stainless steel with welded diaphragm	ANSI CLASS 150 300 600	3/4" ANSI 1" ANSI	When filled with HT silicon up to 150 deg C If fitted with high temperature "O" ring extended cooling neck or capillary between the gauge and seal suitable for temperatures up to 250 deg C
Inline BSM, Hygienic diaphragm seal, 316 stainless steel with welded diaphragm	Up to 4000 kPa	1-1/2 Inch BSM 2 Inch BSM	-20/120 deg C
Inline Triclover, Hygienic diaphragm seal, 316 stainless steel with welded diaphragm	Up to 4000 kPa	1-1/2 Inch Tri 2 Inch Tri	-20/120 deg C
<b>Bonnet</b> PP, Glass fiber reinforced <b>Bottom</b> PVC-U, PP, PVDF <b>Diaphragm</b> EPDM ,PTFE Coated on medium side	Up to 1000 kPa	1/4" NPT Female 1/2" NPT Female	-30/120 deg C Dependant upon material of construction and pressure range

Some diaphragm seals can also be offered in materials such as, Hastelloy, Tantalum, Nickel, Titanium and Inconel on request