

**SPECIAL FEATURES**

DIAPHRAGM DIRECTLY WELDED TO TOP CHAMBER  
EASY TO CLEAN  
EASY TO CHANGE PROCESS CONNECTION /  
BOTTOM CHAMBER

**APPLICATIONS**

DIAPHRAGM SEALS ARE DESIGNED TO ISOLATE THE SENSING ELEMENT OF PRESSURE GAUGES AND PRESSURE SWITCHES FROM PROCESS FLUIDS THAT THEY MAY BE CORROSIVE, VISCOUS, SEDIMENTOUS AND / OR WITH A HIGH TEMPERATURE. THE DIAPHRAGM IS WELDED TO THE BODY TO ENSURE SEPARATION OF THE FILLING FLUID FROM THE PROCESS MEDIUM.



**STANDARD VERSION**

(COMPATIBLE MODELS : 01-03, 01-05, 01-08, 01-09, 01-12, 01-15, 02-01, 02-05, 02-09, 02-10, 02-15 & 02-20)

Seal type	S01 = -1 to 0 kg/cm <sup>2</sup> & 0 to 70 kg/cm <sup>2</sup> (Standard) S02 = 100 kg/cm <sup>2</sup> to 250 kg/cm <sup>2</sup>
Process temperature	- 40 °C to 200 °C or as per fill fluid
Instrument connection	1/2" NPT (F)
Process connection	1/2" NPT (M)
Fill fluid	Silicon oil - DC 200
Diaphragm	AISI 316L SS
Top chamber	AISI 304 SS
Bottom chamber	AISI 316 SS
Nuts / bolts	Steel (Zinc plated)
Sealing gasket	PTFE max 250°C / Inconel silver plated for 400°C max.
Tension flange (Cup type)	Steel (Chrome plated)

**BASIC MODEL**
**CODE**

 Example  
**D-01**
**OPTIONAL EXTRAS**

[It is recommended that the MOC of Diaphragm should be equivalent or superior than the MOC of Bottom chamber.]

**SEAL TYPE**
**S01** -1 to 0 kg/cm<sup>2</sup> & 0 to 70 kg/cm<sup>2</sup> (Standard)    **S02** 100 kg/cm<sup>2</sup> to 250 kg/cm<sup>2</sup>
**XXX**
**INSTRUMENT CONNECTION**
**VN** 1/4" BSP(F)    **VP** 3/8" BSP (F)    **VL** 1/2" BSP (F)    **VM** 1/2" NPT (F) (Standard)    **VO** 1/4" NPT (F)

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**TOP CHAMBER**
**XW** AISI 304 SS (Standard)    **YA** AISI 316L SS    **XY** AISI 316 SS    **YC** CARBON STEEL

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**DIAPHRAGM** (\* Range up to 21 kg/cm<sup>2</sup>)

**UJ** AISI 316L (Standard)    **UL** HASTELLOY 'C'    **UR** TITANIUM    **UW** INCONEL 600  
**UM** MONEL    **UP** SILVER\*    **UQ** TANTALUM

**XX**
**SEALING GASKET**
**VI** PTFE (Standard; max 200°C)    **YR** METAL    **YQ** Inconel silver plate for max 400°C (high temp. Oil)

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**BOTTOM CHAMBER** (\* Refer Pressure v/s Temperature table below.)

**TK** AISI 304 SS    **UD** TANTALUM  
**TM** AISI 316 SS (Standard)    **TN** CARBON STEEL  
**TL** AISI 316L SS    **TZ** PVC\*  
**UH** TITANIUM    **UA** PVDF\*  
**TX** MONEL    **TY** POLYPROPELENE\*  
**TT** HASTELLOY 'C'

MOC OF BOTTOM CHAMBER	PRESSURE V/S TEMPERATURE					
	20 °C	40 °C	60 °C	80 °C	100 °C	120 °C
PVDF	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	7 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>	2 kg/cm <sup>2</sup>
PP	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	6 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>	1 kg/cm <sup>2</sup>	NA
PVC	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>	1 kg/cm <sup>2</sup>	NA	NA

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**PROCESS CONNECTION**
**WE** 1/4" BSP(F)    **WI** 1/4" NPT (F)    **WY** 1/4" NPT(M)    **WS** 1/4" BSP(M)    **WR** M20 x 1.5(M)  
**WC** 3/8" BSP(F)    **WH** 1/2" NPT (F)    **WA** 1/2" NPT(M) (Standard)    **WT** 3/8" BSP(M)    **WP** M33 x 1.5(M)  
**WD** 1/2" BSP(F)    **WL** 3/4" NPT(F)    **WK** 3/4" NPT(M)    **WU** 1/2" BSP(M)  
**WJ** 3/4" BSP(F)    **WF** 3/4" BSP(M)

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Note : Connections like Metric/ PT/ PF/ Flaired / UNF/ G/ R etc can be provided on request.

**TENSION FLANGE & NUT - BOLTS**
**XS** MILD STEEL (PLATED) (Standard)    **XQ** AISI 304 SS    **XR** AISI 316 SS

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**PROTECTION ON WETTED PARTS** (\* With bore diameter 10 mm minimum & for connection size 1/2" & above only.)

**VS** PTFE LINING ON BOTTOM CHAMBER - 2 mm THICK (Max. Up to 150 °C)  
**VV** PTFE PROTECTION FOR DIAPHRAGM (Max. Up to 150 °C, max up to 100 bar )  
**VZ** PTFE COATING ON DIAPHRAGM (Max. Up to 315°C)

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**FILLING FLUIDS** (\* Consult factory for specifications, price and delivery.)

**US** FLUROLUBE 4.2 [-45 to 175 °C]    **UY** SILICON DC 704 [10 to 337 °C]  
**UT** FLUROLUBE 6.3 [-40 to 235 °C]    **UZ** SILICON DC 710 [7 to 371 °C]  
**UU** FLUROLUBE FS-5 [-28 to 148 °C]    **VA** SYLTHERM 800 [-40 to 315 °C]  
**UV** FOOD GRADE OIL [-20 to 140°C]    **VB** SYLTHERM XLT [-100 to 260 °C]  
**UX** SILICON DC 200 [-40 to 205 °C] (Standard)    **VC** HALOCARBON OIL\*

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**REMOTE MOUNTING (With capillary of Max. Up to 15 Mtrs.)**

SPECIFY IN METERS (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS)

**CAPILLARY**
**PE** AISI 304 SS    **PG** AISI 316 SS

**3Mtr.**
**CAPILLARY COVERED WITH ARMOUR (Applicable with PE or PG if selected)**
**PF** AISI 304 SS    **PH** AISI 316 SS    **PI** PVC

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**OTHER OPTIONS**
**TB** HELIUM LEAK TEST    **TC** DRY SEAL ONLY WITHOUT INSTRUMENT    **GH** MATERIAL TEST CERTIFICATES\*

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\* MATERIAL TEST CERTIFICATES WILL BE PROVIDED FOR WETTED PARTS ONLY WITH CHEMICAL COMPOSITION TESTING. FOR OTHERS, PLEASE CONSULT FACTORY.

Refer Datasheet : 05-05 for selection of Flushing Rings, 05-02 for cooling towers for temperature above 100°C

**Ordering Example: D-01 - XXX - XX - XX - XX - XX - XX - XX - XX - XX - 3Mtr. - XX - XX - XX**  
 FOR OTHER OPTIONAL ITEMS, PLEASE CONTACT FACTORY FOR DELIVERY AND MINIMUM QUANTITY OF ORDER.