



SPECIAL FEATURES

ROBUST TWO PIECE DESIGN
THE DIAPHRAGM IS WELDED TO THE BODY TO ENSURE SEPARATION OF THE FILLING FLUID FROM THE PROCESS MEDIUM
ALL SS CONSTRUCTION

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.

STANDARD VERSION

(COMPATIBLE MODELS : 01-03, 01-05, 01-08, 01-09, 01-12, 01-17, 02-01, 02-05, 02-06, 02-07, 02-15 & 02-20)

Seal type	S06 = -1 to 0 kg/cm ² & 0 to 70 kg/cm ² (Standard) S07 = 100 kg/cm ² to 400 kg/cm ²
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	AISI 304 SS
Sealing gasket	PTFE max 250°C / Inconel silver plated for 400°C max.

HOW TO ORDER

BASIC MODEL

CODE

OPTIONAL EXTRAS

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

TYPE

S06 -1 to 0 kg/cm² & 0 to 70 kg/cm² (Standard) **S07** 100 kg/cm² to 400 kg/cm²

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)

TOP CHAMBER

XW AISI 304 SS (Standard) **YA** AISI 316L SS **XY** AISI 316 SS

DIAPHRAGM (* Range up to 21 kg/cm²)

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

SEALING GASKET

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

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

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

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

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) (Standard) **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) (Standard)
WJ 3/4" BSP(F) **WF** 3/4" BSP(M)

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

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)

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*

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

CAPILLARY COVERED WITH ARMOUR (Applicable with PE or PG if selected)

PF AISI 304 SS **PH** AISI 316 SS **PI** PVC

OTHER OPTIONS

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

* 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-02 - XXX - 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.

Example

D-02

XXX

XX

XX

XX

XX

XX

XX

XX

XX

3Mtr.

XX

XX

XX