



## DIAPHRAGM SEAL FLANGE - "I" SECTION TYPE

D-08



### SPECIAL FEATURES

CONTINUOUS DUTY  
"I" SECTION EXTENSION TO FACILITATE SMALLER FLANGE SIZES  
SUITABLE FOR ANTI CORROSIVE PROTECTION

### APPLICATIONS

DIAPHRAGM SEALS ARE PROVIDED IN THE INSTRUMENTS LIKE PRESSURE GAUGES, SWITCHES, TRANSMITTERS IN ORDER TO ISOLATE THE SENSING ELEMENT FROM THE MAIN SERVICE DUE TO ITS CORROSIVE, VISCOUS AND SEDIMENTED NATURE AND TO AVOID CLOGGING AND SOLIDIFICATION. THIS CAN BE WIDELY USED WITH ANTI CORROSIVE TREATMENT/PROTECTION & VARIOUS FLANGED SIZES.

### STANDARD VERSION

(PREFERABLE FOR FLANGE SIZE 1" AND BELOW)

(COMPATIBLE MODELS : 01-03, 01-05, 01-08, 01-09, 01-12, 01-18, 02-01, 02-05, 02-09, 02-10, 02-15 & 02-20)

Seal type	S21 = -1 to 0 kg/cm <sup>2</sup> & 0 to 70 kg/cm <sup>2</sup> (Standard) S22 = 100 kg/cm <sup>2</sup> to 400 kg/cm <sup>2</sup>
Process temperature	Max. 150 °C for PTFE lined - 40 °C to 200 °C for without PTFE lined
Instrument connection	½" NPT (F)
Process connection	Flange (as per DIN/BS/ANSI/JIS) Finish 125 - 250 AARH
Fill fluid	Silicon oil - DC 200
Mounting	Direct (Without capillary)

\* Range of selected instrument shall be suitable to flange pressure rating.

Diaphragm	AISI 316L SS
Top chamber	AISI 304 SS
Bottom chamber ("I" section)	AISI 316 SS Flange (as per DIN/BS/ANSI/JIS)
Nut, bolts & slip ring	Steel nickel plated
Sealing gasket	PTFE

**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.]

**SEAL TYPE**

**S21** -1 to 0 kg/cm<sup>2</sup> & 0 to 70 kg/cm<sup>2</sup> (Standard)      **S22** 100 kg/cm<sup>2</sup> to 400 kg/cm<sup>2</sup>

**INSTRUMENT CONNECTION**

**VP** 3/8" BSP (F)      **VL** 1/2" BSP (F)      **VM** 1/2" NPT (F) (Standard)

**TOP CHAMBER**

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

**DIAPHRAGM**

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

**SEALING GASKET**

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

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

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

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

**PROCESS CONNECTION**

AS PER DIN / BS / ANSI/ JIS (SELECT CODE FROM FLANGE TABLE)

**TENSION FLANGE & NUT - BOLTS**

**XS** MILD STEEL (PLATED) (Standard)      **XQ** AISI 304 SS      **XR** AISI 316 SS

**PROTECTION ON WETTED PARTS**

**VS** PTFE LINING ON BOTTOM CHAMBER ("I" SECTION)- 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-08 - XXX - XX - XX - XX - XX - XX - XXX - XX - XX - XX - 3Mtr - XX - XX - XX**

FOR OTHER OPTIONAL ITEMS, PLEASE CONTACT FACTORY FOR DELIVERY AND MINIMUM QUANTITY OF ORDER.

Example

**D-08**
**XXX**
**XX**
**XX**
**XX**
**XX**
**XX**
**XX**
**XXX**
**XX**
**XX**
**XX**
**3Mtr.**
**XX**
**XX**
**XX**