

DIRECT COUPLED TYPE DIAPHRAGM SEAL

Special Features:

- Direct Coupled Type
- Two Piece Construction
- Ideal For General Purpose Application
- Robust Design
- All SS Construction



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.

Specifications:

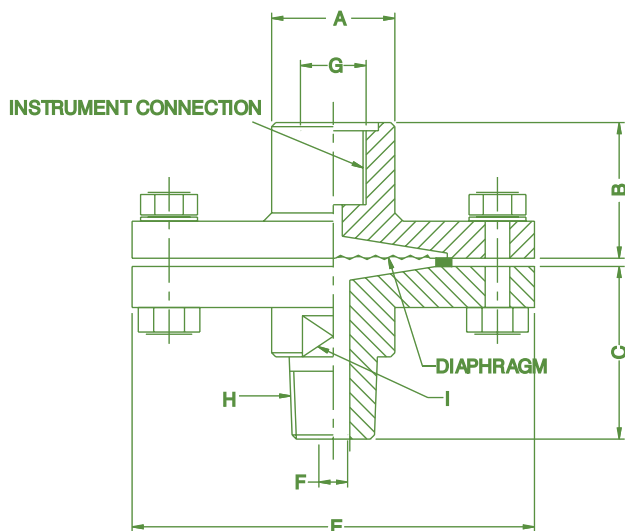
Pressure Range	: -1 kg/cm ² to 70 kg/cm ²
Process temperature	: - 40° C to 200 ° C or as per fill fluid
Instrument Connection	: 3/8" BSP (F)
Process Connection	: 1/2"NPT (M)



Diaphragm	: AISI 316L SS
Top Chamber	: AISI 316 SS (Forged)
Bottom Chamber	: AISI 316 SS (Forged)
Nuts / Bolts	: AISI 304 SS
Gasket	: PTFE (upto 200° C)/Metal Seal (upto 350°C)
Filling Fluid	: Silicon Oil - DC 200



Dimensions:



A	- B	-C	E	F	G	H	I
30	25	47	98	Ø8	3/8" BSP(F)	*	A/F 25



Notes : • Drawings are not to scale. • All Dimensions are in mm.

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HOW TO ORDER

OPTIONS:

SDC

FOR NON STANDARD PRODUCTS/OPTIONAL ITEMS, PLEASE CONTACT FACTORY FOR DELIVERY AND MINIMUM QUANTITY OF ORDER

DIAPHRAGM:

TN

S6L	AISI 316L SS	NI	NICKEL	TN	TITANIUM
HC	HASTELLOY 'C'	AG	SILVER		
ML	MONEL	TL	TANTALUM		

GASKETS:

VI

VI	PTFE SEAL GASKET 200°C	YR	METAL SEAL
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PROCESS CONNECTION:

15NM

10BF	3/8" BSP(F)	15NF	1/2" NPT (F)	06NM	1/4" BSP(M)
15BF	1/2" BSP(F)	06NF	1/4" NPT (F)	10NM	3/8" NPT(M)
06BF	1/4" BSP(F)	10BM	3/8" BSP (M)	06NM	1/4" NPT(M)
10NF	3/8" NPT(F)	15BM	1/2" BSP(M)	15NM	1/2" NPT(M)

Note : Connections like PT/PF/Flaired /UNF/G/R etc.can be provided on request.
The material of adaptor is same as per bottom chamber material.

INSTRUMENT CONNECTION:

10B

15B	1/2" BSP(F)	06B	1/4" BSP(F)	06N	1/4" NPT (F)
15N	1/2" NPT (F)	10N	3/8" NPT(F)	10B	3/8" BSP (F)

BOTTOM CHAMBER:

S4

S6	AISI 316 SS	S4	AISI 304 SS
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NUTS & BOLTS FOR SEALED CHAMBER CLAMPING:

S4

S4	AISI 304 SS
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FLUSHING RING:

VP

VL	FLUSHING RING WITH 1/2"NPT PLUG (AISI 304 SS)	VE	FLUSHING RING WITH 1/4"NPT PLUG (AISI 304 SS)
VD	FLUSHING RING WITH 1/2"NPT PLUG (AISI 316 SS)	VF	FLUSHING RING WITH 1/4"NPT PLUG (AISI 316 SS)

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⚙️ FILLING FLUIDS:

US	FLUROLUBE 4.2 (-45 TO 175°C / -49 TO 374°F)	UY	SILICON DC 704 (0 TO 315°C / 32 TO 599°F)
UT	FLUROLUBE 6.3 (-40 TO 235°C / -40 TO 455°F)	UZ	FLUROLUBE 6.3 (-40 TO 235°C / -40 TO 455°F)
UU	FLUROLUBE FS5 (-40 TO 150°C / -40 TO 302°F)	VA	SYLTHERM 800 (-45 TO 205°C / -49 TO 401°F)
UV	FLUROLUBE FS5 (-40 TO 150°C / -40 TO 302°F)	VB	SYLTHERM XLT (-75 TO 150°C / -102 TO 302°F)
UX	SILICON DC 200-10CS (-40 TO 205°C / -40 TO 401°F)	VC	HALOCARBON OIL

UX

⚙️ PROTECTION ON WETTED PARTS:

VS	PTFE LINING ON BOTTOM CHAMBER- 2mm THICK	VV	PTFE PROTECTION FOR DIAPHRAGM
VZ	PTFE COATING ON DIAPHRAGM		

VV

⚙️ TYPE:

A0	WITHOUT CAPILLARY	A1	WITH CAPILLARY
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A1

⚙️ CAPILLARY:

PE	AISI 304 SS	PG	AISI 316 SS
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PE

⚙️ CAPILLARY COVERED WITH ARMOUR:

PF	AISI 304 SS	PH	AISI 316 SS	PI	PVC
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PF

⚙️ CAPILLARY LENGTH(Max up to 6Mtrs.):

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

3Mtr.

⚙️ OTHER OPTIONS:

TB	HELIUM LEAK TEST	TC	DRY SEAL ONLY WITHOUT INSTRUMENT
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TC

Ordering Example: SDC - YA - TN - VI - 15NM - 10B - S4 - S4 -VF- UX - VV - A1 - PE - PF - 3Mtr. - TC