

# NESS

## DIAPHRAGM SEAL

### FLANGED CONNECTION TYPE

# Model - CSK

#### Special Features :

- Welded diaphragm
- Wide range of diaphragm material
- Most suitable for slurry & corrosive service
- Flushing Ring, Flange & Diaphragm are available in various type of SS & Exotic materials.

#### 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. These kind of seals are widely used in the viscous & corrosive services where flushing is required periodically & frequently.



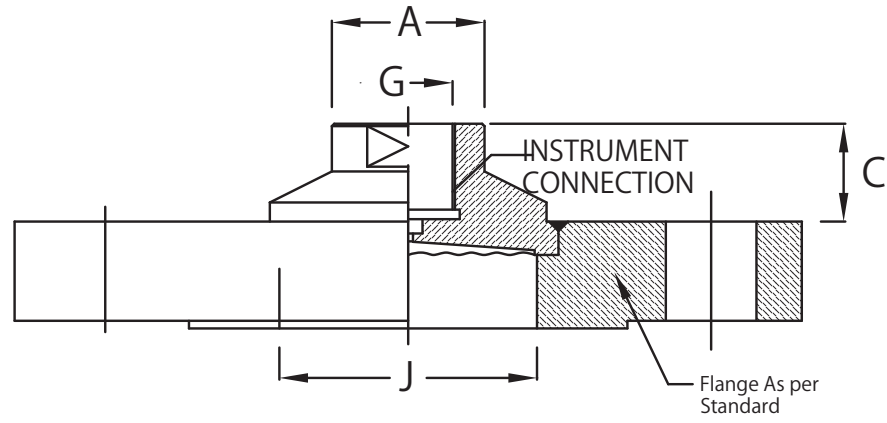
#### Specifications

**STANDARD VERSION : (For Flange 1½" and above)**

Range	: -1 bar to 250 bar
Process temperature	: -40° C to 200° C or as per Filled fluid
Instrument Connection	: 1/2" G (F)
Process Connection	: Flange (as per ANSI/JIS/DIN/BS), 40NB (1½") & Above
Fill Fluid	: Silicon Oil - DC 200
Diaphragm	: AISI 316L SS
Top Chamber	: AISI 304 SS
Bottom Chamber (Flange)	: AISI 316 SS

## ***DIMENSIONS :- FOR STANDARD MODEL***

DRAWING OF MODEL (TYPE WISE)



A	C	E	G	J
30	44.5	*	1/2"G(F)	62.5

\* As per Standard Flange size

\*\* Diaphragm Dia. To suit Flange



# SELECTION OF MODEL

## (1) MODEL CODE

### (2) DIAPHRAGM

HASTELLOY 'C'	<b>HT</b>
TANTALUM	<b>TA</b>
PTFE	<b>PE</b>

TITANIUM	<b>TI</b>
MONEL	<b>MN</b>
AISI 316L SS	<b>S6L</b>

### (3) BOTTOM CHAMBER (FLANGE)

AISI 304 SS	<b>S4</b>
AISI 316 SS (Standard)	<b>S6</b>
AISI 316L SS	<b>S6L</b>
HASTELLOY 'C'	<b>HT</b>

MONEL	<b>MN</b>
CARBON STEEL	<b>CS</b>
TANTALUM	<b>TA</b>
TITANIUM	<b>TI</b>

### (4) PROCESS CONNECTION

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

# PLEASE INDICATE YOUR REQUIRED SIZE

### (5) PROTECTION ON WETTED PARTS

PTFE LINING ON BOTTOM CHAMBER - 2mm THICK (Max up to 150° C)	<b>LB</b>
PTFE PROTECTION FOR DIAPHRAGM (Max up to 150° C)	<b>PF</b>
PTFE COATING ON DIAPHRAGM (Max up to 315° C)	<b>CD</b>

### (6) FILLING FLUIDS

FLUROLUBE 4.2 (-45 TO 175 ° C)	<b>O1</b>
FLUROLUBE 6.3 (-40 TO 235 ° C)	<b>O2</b>
FLUROLUBE FS (-28 TO 148 ° C)	<b>O3</b>
FOOD GRADE OIL (-20 TO 140 ° C)	<b>O4</b>
SILICON DC 200 (-40 TO 205 ° C) (Standard)	<b>O5</b>

### (7) REMOTE MOUNTING (With capillary of Max. Up to 6 Mtrs.)

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

### (8) CAPILLARY

AISI 304 SS	<b>S4</b>	AISI 316 SS	<b>S6</b>
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### (9) CAPILLARY COVERED WITH ARMOUR (Applicable with S4 or S6 if selected)

AISI 304 SS	<b>S4</b>
AISI 316 SS	<b>S6</b>
PVC (Ambient Temp. Max. 60° C)	<b>PC</b>

### (10) OTHER OPTIONS

HELIUM LEAK TEST	<b>HT</b>
DRY SEAL ONLY WITHOUT INSTRUMENT	<b>SD</b>
MATERIAL TEST CERTIFICATES	<b>MC</b>

<b>Example</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Order Detail</b>	<b>CSK</b>	<b>S4</b>	<b>S6L</b>	<b>S6</b>	<b>XX</b>

<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
<b>LB</b>	<b>O5</b>	<b>XX</b>	<b>S4</b>	<b>S4</b>	<b>Option XX</b>

CSK

S6L

S6

XX

LB

O5

XX

S4

S4

XX

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We reserve the rights to change models and specifications without prior notice.