

# Sandwich Type Diaphragm Seal

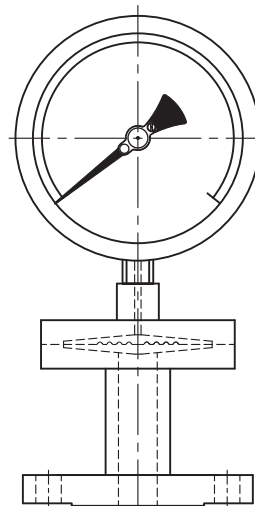
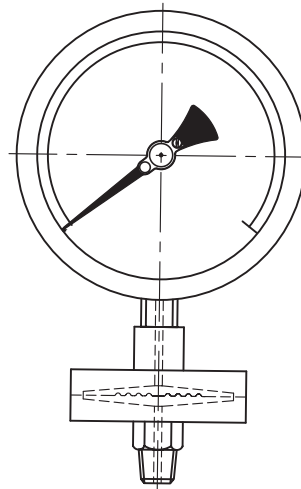
*General*

MODEL : CSU-SDT / CSU-SDF

## Features

Sandwich type Diaphragm Seals are the most commonly used Diaphragm Seals. The Diaphragm is sandwiched between Top Chamber & Bottom Chamber / Flange. These are available Threaded as well as Flanged process Connection. For low Pressure Range & Smaller Flange Sizes, "1" section type Diaphragm Seals are used.

Optionally, Flushing connection of 1/4" NPT(F) or 1/2" NPT(F) can be provided which enables the user to flush out / clean the area below the diaphragm without removing the Seal from the process line. For Threaded Process Connection and Flange Connection with "1" section, Flushing connection shall be directly provided on the Bottom Chamber. For bigger Flange sizes, separate Flushing Rings (Spacer Rings) are usually provided.



## Optional Feature

- **Cooling Tower**
- **Capillary** for Remote mounting of the Pressure Instrument
- **Integral Flushing Connection or Flushing Ring (Spacer Ring)** for purging / cleaning the area below the diaphragm without removing the Seal from the process line.
- **Stud / Nut & Gasket** (for Flanged Connection only), for assembling the Diaphragm Seal with Process Flange.

**Note:** This catalogue indicates the general specifications used for most of the process applications. Any other specification not appearing here also can be provided as per customer requirement.

Under Technical Collaboration with M/s. Gauges Bourdon, France

# Ordering Information

## SANDWICH DIAPHRAGM SEAL (Threaded or Flanged)

MODEL: CSU- [ ] [ ] [ ] [ ] [ ] [ ] [ ]

### CONNECTION TYPE

**SDT** Sandwich type, Threaded Conn.  
**SDF** Sandwich type, Flanged Conn.

### TOP CHAMBER

**CST** CS  
**S4S** SS304  
**S6S** SS316  
**S6L** SS316L  
**XXX** Other (Please Specify)

### DIAPHRAGM

<b>S4S</b> SS 304	<b>HCC</b> Hastelloy C
<b>S4L</b> SS 304L	<b>TTM</b> Titanium
<b>S6S</b> SS 316	<b>TAN</b> Tantalum
<b>S6L</b> SS 316L	<b>N20</b> Nickel 200
<b>321</b> SS 321	<b>MN4</b> Monel 400
<b>S6P</b> SS 316+PTFE	<b>800</b> Incoloy 800
<b>6LP</b> SS 316L+PTFE	<b>SIL</b> Silver
<b>S6G</b> SS 316+Gold Plated	<b>GLD</b> Gold
<b>6LG</b> SS 316L+Gold Plated	<b>PTF</b> PTFE
<b>HCB</b> Hastelloy B	<b>XXX</b> Other (Please Specify)

### BOTTOM CHAMBER / FLANGE

<b>S4S</b> SS 304	<b>HCC</b> Hastelloy C
<b>S4L</b> SS 304L	<b>TTM</b> Titanium
<b>S6S</b> SS 316	<b>N20</b> Nickel 200
<b>S6L</b> SS 316L	<b>MN4</b> Monel 400
<b>321</b> SS 321	<b>800</b> Incoloy 800
<b>S6P</b> SS 316+PTFE	<b>XXX</b> Other (Please Specify)
<b>6LP</b> SS 316L+PTFE	
<b>PTF</b> PTFE*	
<b>HCB</b> Hastelloy B	

### OPTION

**4AR(\*)** SS316 Capillary, SS304 Armoured  
**4PV(\*)** SS316 Capillary, SS304 Armoured+PVC Covered  
**6AR(\*)** SS316 Capillary, SS316 Armoured  
**6PV(\*)** SS316 Capillary, SS316 Armoured+PVC Covered  
**CLT** Cooling Tower  
**FC4** Integral Flushing Connection, 1/4" NPT(F)  
**FC2** Integral Flushing Connection, 1/2" NPT(F)  
**FR4(\*\*)** Flushing Ring, 1/4" NPT(F)  
**FR2(\*\*)** Flushing Ring, 1/2" NPT(F)  
**GSK** Gasket  
**STN** Stud & Nuts  
**L** Nil  
**XXX** Other (Please specify)

\* Specify the length of Capillary in Meters.

\*\* Specify Ring material (Refer Bottom Chamber / Flange table)

### FILLING FLUID

**DC1** DC-710  
**DC2** Silicone Oil (DC-200)  
**DC4** DC-704  
**DC5** DC-705  
**FLU** Fluorolube  
**GLY** Glycerine  
**HLC** Halocarbon  
**VGO** Food grade oil  
**XXX** Other (Please specify)

### PROCESS CONNECTION

#### THREADED

Conn	Code	Size	Code	Type	Code	MALE / FEMALE	Code
Thread	T	1/4"	06	NPS	NS	Male	M
		3/8"	10	NPT	NT	Female	F
		1/2"	15	BSP	BP		
		3/4"	20	BSPT	BT		
		1"	25	JIS-PF	PF		
		M20	M20	JIS-PT	PT		
				Gas	GS		
				R	RR		
				Rp	RP		
				Pitch 1.5	C		

e.g. For 1/2"NPT(M), Code: **T15NTM** For M20x1.5 (F), Code: **TM20CF**

### PROCESS CONNECTION

#### FLANGED

Conn	Code	Size	Code	Rating#	Code	Facing	Code	
Flange	F	1/2"	15	150	A	RF	RF	
		3/4"	20	300	B	FF	FF	
		1"	25	600	C	RTJ	RJ	
		1-1/2"	40	900	D	ST	ST	
		2"	50	1500	E	SG	SG	
		3"	80	2500	F	LT	LT	
							LG	LG
							SMF	SM
							SFF	SF
							LMF	LM
					LFF	LF		

e.g. For 40 NB 300# RF flange, Model Code: **F40BRF**

#### \*PTFE Chamber / Flange:

Max Range 0 to 16 kg/cm2.g for Flanged connection

Max Range 0 to 6 kg/cm2.g for Threaded connection (1/2" BSPM / NPTM only)

Sample model Code: **CSU-SDF-S4S-S6S-S6S-F20ARF-DC2-4AR(3)**