

## APPLICATIONS

- Separation systems
- Isolation applications
- Viscous & corrosive media
- High-pressure applications
- High vibration application

## FEATURES

- For flanges all sizes
- Optional exotic materials



## FLANGED DIAPHRAGM SEAL EXTENDED NECK, TMC20-2

### Standard version

**Seal type :** -1...0...21 bar [Eco] / -1...0...70 bar [Standard] / 100...400 bar [High pressure]

**Instrument connection :** ½" NPT (F) / ½" BSP (F)

**Sealing fluid :** Silicon DC 200 [-40...205°C]

**Process connection :** Flange as per standard

**Flange facing type :** Flat Face / Raised Face / Ring Type Joint

### Wetted parts protection

**Coating on Bottom chamber & diaphragm [Code E69]**

**Material :** PTFE [spray coated & oven baked]

**Service temperature :** 150°C max.

## DESCRIPTION

### General

**Flange design :** ANSI B16.5 / EN 1092-1 / BS-10

**Storage temperature :** -40...+65°C

**Service temperature :** 370°C max.

**Weld joints :** Diaphragm and Other Parts by TIG argon arc welding

### Material of construction

**Sensing element :** Diaphragm

**Flange material :** ASTM A105 / AISI 304 SS / AISI 316 SS

**Diaphragm :** AISI 316L SS / Monel 400 / Hastelloy C-276 Inconel 600 / Titanium / Tantalum

**Extended Neck material :** ASTM A105 / AISI 304SS AISI 316 SS / AISI 316L SS / Monel / Titanium Hastelloy C-276 / Tantalum\*

**Capillary :** AISI 304 SS / AISI 316 SS

**Armour :** AISI 304 SS / AISI 316 SS / PVC

**Remote distance :** 0.25 Mtr. to 15 Mtr.

### Filling liquids Vs Temperature range

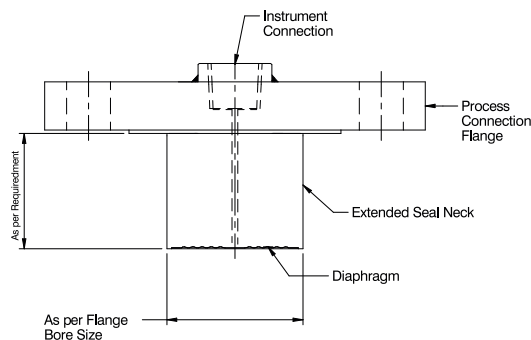
| Code | Fluid Name     | Temperature Range |
|------|----------------|-------------------|
| L1   | Silicon DC 200 | -40°C to 205°C    |
| L2   | Glycerin       | 10°C to 150°C     |
| L3   | Food Grade oil | -20°C to 140°C    |
| L4   | Syltherm 800   | -40°C to 315°C    |
| L5   | Silicon DC 710 | 7°C to 371°C      |

\*Check temperature & pressure rating with factory before ordering.

## ORDERING CODES

| MODEL                                                |                           |     |                               |     |                               | TMC20-2 |
|------------------------------------------------------|---------------------------|-----|-------------------------------|-----|-------------------------------|---------|
| TMC 20-2 Flanged Diaphragm seal -Extended Neck       |                           |     |                               |     |                               |         |
| SEAL TYPE                                            |                           |     |                               |     |                               | A3      |
| A3 Flanged Diaphragm seal -Extended Neck             |                           |     |                               |     |                               |         |
| FLANGE MATERIAL                                      |                           |     |                               |     |                               | S01     |
| S09                                                  | ASTM A105                 | S01 | AISI 304 SS                   | S02 | AISI 316 SS                   |         |
| DIAPHRAGM MATERIAL                                   |                           |     |                               |     |                               | S03     |
| S03                                                  | AISI 316L SS              | S05 | Monel 400                     | S10 | Hastelloy C-276               |         |
| S06                                                  | Inconel 600               | S07 | Titanium                      | S08 | Tantalum                      |         |
| EXTENDED NECK MATERIAL                               |                           |     |                               |     |                               | S02     |
| S01                                                  | AISI 304 SS               | S02 | AISI 316 SS                   | S03 | AISI 316L SS                  |         |
| S05                                                  | Monel 400                 | S10 | Hastelloy C-276               | S07 | Titanium                      |         |
| S08                                                  | Tantalum                  |     |                               |     |                               |         |
| INSTRUMENT CONNECTION                                |                           |     |                               |     |                               | P28     |
| P28                                                  | ½" NPT (F)                | P23 | ¼" BSP (F)                    | P27 | ½" BSP (F)                    |         |
| P24                                                  | ¼" NPT (F)                |     |                               |     |                               |         |
| PROCESS CONNECTION                                   |                           |     |                               |     |                               | XXX     |
| XXX As per Flange table                              |                           |     |                               |     |                               |         |
| FLANGE FACING                                        |                           |     |                               |     |                               | G1      |
| G1                                                   | Serrated raised face      | G2  | Flat face                     | G3  | Ring type joint face          |         |
| G4                                                   | Tongue & Groove face      |     |                               |     |                               |         |
| SEALING FLUID                                        |                           |     |                               |     |                               | L1      |
| XX As per Filling liquid Vs Temperature Rating table |                           |     |                               |     |                               |         |
| EXECUTION                                            |                           |     |                               |     |                               | R1      |
| R1                                                   | Direct                    | R2  | Remote                        |     |                               |         |
| CAPILLARY MATERIAL                                   |                           |     |                               |     |                               | XX      |
| S01                                                  | AISI 304 SS               | S02 | AISI 316 SS                   |     |                               |         |
| ARMOUR MATERIAL                                      |                           |     |                               |     |                               | XX      |
| S01                                                  | AISI 304 SS               | S02 | AISI 316 SS                   | S16 | PVC [Ambient ≤60 °C]          |         |
| REMOTE DISTANCE                                      |                           |     |                               |     |                               | XXXXXX  |
| XXXXXX 500 mm (Min.) to 25000 mm (Max.)              |                           |     |                               |     |                               |         |
| OTHER OPTIONS                                        |                           |     |                               |     |                               | E31     |
| E77                                                  | Dry Seal                  | E31 | Material test certificate 3.1 | E32 | Material test certificate 2.2 |         |
| E114                                                 | PTFE Coating on Diaphragm |     |                               |     |                               |         |

**Ordering Example : TMC20-2-A3.S02.S03.S02.P28.F07.G1.L1.R1/XX.XX.XXXXXX/XXX**



### NOTES

- Standard GA Drawing. Not to scale.
- Detailed GA Drawings are available, kindly contact factory.