

APPLICATIONS

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

FEATURES

- For flanges all sizes
- Optional exotic materials



FLANGED TYPE DIAPHRAGM SEAL FULLY WELDED / SCREWED TYPE, TMC20-1

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

Lining on bottom chamber [Code E67]

Material : PTFE - 2 mm thick

Service temperature : 200°C max.

Lining on Diaphragm [Code E68]

Material : PTFE - 100 Micron thick

Service temperature : 150°C max.

Coating on Bottom chamber & diaphragm [Code E69]

Material : PTFE [spray coated & oven baked]

Service temperature : 150°C max.

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

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

Top chamber material : ASTM A105 /
AISI 304 SS / AISI 316 SS

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

Gaskets : PTFE [ranges ≤ 70 bar] / Metal
[ranges ≥ 100 bar]

Bottom chamber material : ASTM A105 / AISI 304SS
AISI 316 SS / AISI 316L SS / Monel / Titanium
Hastelloy C-276 / Tantalum / PVC / PVDF
Polypropylene / PTFE

Coupling flanges & hardware : Plated SS

Capillary : AISI 304 SS / AISI 316 SS

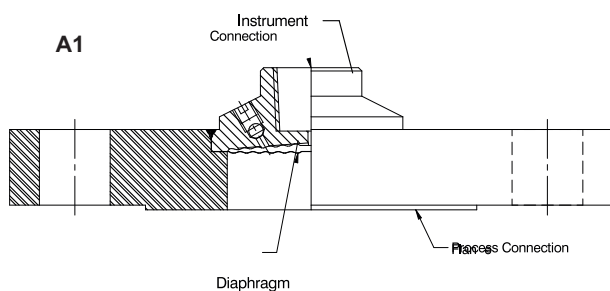
Armour : AISI 304 SS / AISI 316 SS / PVC

Remote distance : 0.25 Mtr. to 15 Mtr.

ORDERING CODES

MODEL						TMC20-1	
TMC20-1 Flanged diaphragm -Fully Welded seal / Screwed type							
SEAL TYPE						A2	
A1	Fully welded Flanged Diaphragm seal				A2	Screwed Flanged Diaphragm Seal	
TOP CHAMBER 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
BOTTOM CHAMBER 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		S11	PTFE		S16	PVC
S18	Polypropylene		S19	PVDF			
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						XXXXX	
XXXXX	500 mm (Min.) to 25000 mm (Max.)						
OTHER OPTIONS						E112	
E77	Dry Seal		E31	Material test certificate 3.1		E32	Material test certificate 2.2
E112	PTFE Lining on Flange		E113	PTFE Lining on Diaphragm		E114	PTFE Coating on Diaphragm

Ordering Example : TMC20-1-A1.S01.S03.S02.P28.F07.G1.L1.R1/XX.XX.XXXXX/XXX



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

