

APPLICATIONS

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

FEATURES

- Compact Design
- Flushed diaphragm
- Welded diaphragm
- Optional exotic materials



WAFER DIAPHRAGM SEAL (PAN CAKE TYPE) - TMC28-1

Standard version

Seal type : -1...250 bar (Flange $\geq 1.5"$) /
4...250bar (Flanges $\frac{1}{2}"$ to $1"$)

Instrument connection : $\frac{1}{4}"$ NPT(F) /
 $\frac{1}{2}"$ NPT (F) / $\frac{1}{2}"$ BSP (F)

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

Process connection : Flange as per standard
between $\frac{1}{2}$ to $3"$

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.

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

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

Storage temperature : -40...+65°C

Service temperature : 370°C max.

Weld joints : Welded Diaphragm and other Parts

Material of construction

Sensing element : Diaphragm

Chamber material : AISI 304 SS

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

Matting Flange material : ASTM A105 / AISI 304SS/
AISI 316 SS / AISI 316L SS / Monel / Titanium
Hastelloy C-276 / Tantalum

Hardware : AISI 304 SS,

Capillary : AISI 304 SS / AISI 316 SS

Armour : AISI 304 SS / AISI 316 SS / PVC

Remote distance : 0.25 Mtr. to 25 Mtr.

ORDERING CODES

MODEL						TMC28-1	
TMC28-1 Wafer diaphragm seal							
SEAL TYPE						R12	
R12	-1...0...250 bar [Flange ≥ 1.5"]		R13	4...250bar [Flanges ½" to 1"]			
CHAMBER						S01	
S01	AISI 304 SS		S02	AISI 316 SS			
DIAPHRAGM						S03	
S03	AISI 316L SS		S05	Monel 400		S10 Hastelloy C-276	
S06	Inconel 600		S07	Titanium			S08 Tantalum
MATTING FLANGE						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-SUIT TO STANDARD FLANGES						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						R2	
R2	Remote						
CAPILARY						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						XXX	
E77	Dry Seal		E31	Material test certificate 3.1		E32 Material test certificate 2.2	

Ordering Example : TMC28-1-R12.S01.S03.S02.P28.F07.G1.L1.R2/XX.XX.XXXXX/XXX