

APPLICATIONS

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

FEATURES

- For flanges below 1½" size
- Optional exotic materials

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 pressed steel [cup type]

AISI 304 SS [machined, for seal type

R02 & R03]

Capillary : AISI 304 SS / AISI 316 SS

Armour : AISI 304 SS / AISI 316 SS / PVC

Remote distance : 0.25 Mtr. to 15 Mtr.



I - SECTION -FLANGED DIAPHRAGM SEAL, TMC19

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 between
½ to 1¼"

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

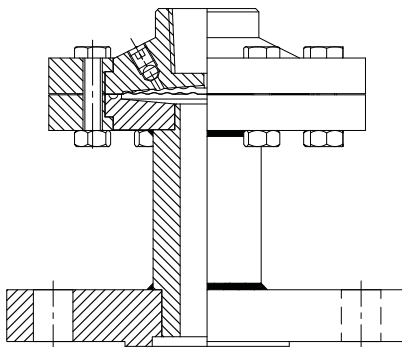
Code	Fluid Name	Temperature Range
L1	Silicon DC 200	-40°C to 205°C
L2	Glycerin	10°C to 150°C
L3	Food Grade oil	-20°C to 140°C
L4	Syltherm 800	-40°C to 315°C
L5	Silicon DC 710	7°C to 371°C

ORDERING CODES

MODEL						TMC19
TMC19 I - Section diaphragm seal						
SEAL TYPE						R02
R01	-1...0...21 bar [Eco]	R02	-1...0...70 bar [Standard]	R03	100...400 bar [High pressure]	
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						XXX
E77	Dry Seal	E31	Material test certificate 3.1	E32	Material test certificate 2.2	

Ordering Example : TMC19-R02.S01.S03.S02.P28.F07.G1.L1.R1/XX.XX.XXXXX/XXX

GENERAL DRAWING



NOTES

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