

APPLICATIONS

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

FEATURES

- Rigid construction
- Forged sealing chambers
- Laser welded diaphragm
- Optional exotic materials



SILIP RING COUPLED DIAPHRAGM SEAL - TMC22-2

Standard version

Seal type : -1...0...70 bar [Standard] / 100...210 bar
[High Pr. 1] 250...400 bar [High Pr. 2]

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

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

Process connection : ½" NPT (M) / ½" BSP (M)

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

Thread design : ANSI B1.20.1 / BS EN ISO 228-1

Storage temperature : -40...+65°C

Service temperature : 370°C max.

Weld joints : Laser welding for Diaphragm and
TIG argon arc welding for other parts

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

Bottom chamber material : AISI 304SS / AISI 316 SS
AISI 316L SS / Monel / Titanium / Tantalum

Hastelloy C-276 / PVC / PVDF / Polypropylene / PTFE

Slip Ring material : AISI 304SS (R02,R08)/ Steel
Powder coated(R01)

Capillary : AISI 304 SS / AISI 316 SS

Armour : AISI 304 SS / AISI 316 SS / PVC

Remote distance : 0.25 Mtr. to 25 Mtr.

Check temperature & pressure rating with factory before ordering.

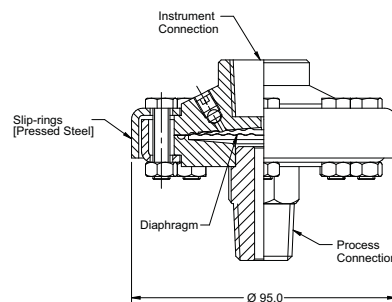
ORDERING CODES

MODEL						TMC22-2
TMC22-2 Slip Ring diaphragm seal						
SEAL TYPE						R02
R01	-1...0...21 bar [Eco]	R02	-1...0...70 bar [Standard]	R08	100...400 bar [High pressure]	
TOP CHAMBER						S01
S09	ASTM A105	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	
BOTTOM CHAMBER						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						P08
P04	¼" NPT (M)	P08	½" NPT (M)	P20	M20 X 1.5 mm (M)	
P03	¼" BSP (M)	P05	3/8" BSP (M)	P07	½" BSP (M)	
P28	½" NPT (F)	P23	¼" BSP (F)	P27	½" BSP (F)	
P24	¼" NPT (F)					
All other connections are available on request.						
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 ;Ü60°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	

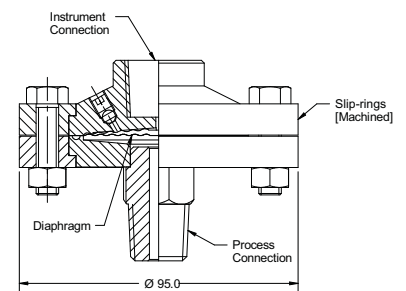
Ordering Example : TMC22-2-R02.S01.S03.S02.P28.P08.L1.R1/XX.XX.XXXXX/XXX

GA DRAWING

R01



R02 & R08



NOTES

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