

APPLICATIONS

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

FEATURES

- Economical and light weight
- All welded construction

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 : 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

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



FULLY WELDED DIAPHRAGM SEAL-COMPACT DESIGN - TMC23

Standard version

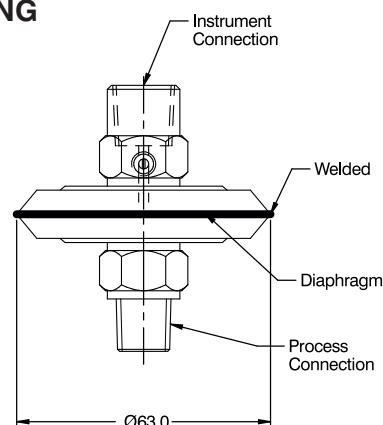
Seal type : -1...0...2.5 bar [Low Pr.] / 6...70 bar [Standard]
100...280 bar [High Pr. 1] /
350...700 bar [High Pr. 2]

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

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

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

GA DRAWING



Seal type	Range	ØD
R04	-1...0...2.5 bar [Low Pressure]	Ø62.2
R05	4...70 bar [Standard]	Ø55.0
R06	100...280 bar [High Pressure 1]	Ø46.5
R07	350...700 bar [High Pressure 2]	Ø34.0

ORDERING CODES

MODEL				TMC23
TMC23 Fully Welded diaphragm seal -Compact Design				
SEAL TYPE				R15
R04	-1...0...2.5 bar [Low Pressure]	R15	-1...25 bar [Standard]	
TOP CHAMBER				S01
S01	AISI 304 SS	S02	AISI 316 SS	
DIAPHRAGM				S03
S03	AISI 316L SS			
BOTTOM CHAMBER				S02
S01	AISI 304 SS	S02	AISI 316 SS	
		S03	AISI 316L SS	
INSTRUMENT CONNECTION				P23
P24	¼" NPT (F)	P23	¼" BSP (F)	
PROCESS CONNECTION				P03
P04	¼" NPT (M)	P03	¼" BSP (M)	
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 ≤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 : TMC23-R15.S01.S03.S02.P2.3P03.L1.R1/XX.XX.XXXXXX/XXX