

FLANGED TYPE DIAPHRAGM SEAL - FULLY WELDED / SCREWED TYPE

TGI20-1



APPLICATIONS

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

FEATURES

- For flanges all sizes
- Optional exotic materials



FLANGED DIAPHRAGM SEAL, TGI20-1

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 Steel S SS

Capillary : AISI 304 SS / AISI 316 SS

Armour : AISI 304 SS / AISI 316 SS / PVC

Remote distance : 0.25 Mtr. to 15 Mtr.

Standard version

Seal type : -1...0...21 bar [Eco] / -1...0...70 bar [Standard] /
100...400 bar [High pressure]

Instrument connection : 1/2" NPT (F) / 1/2" 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

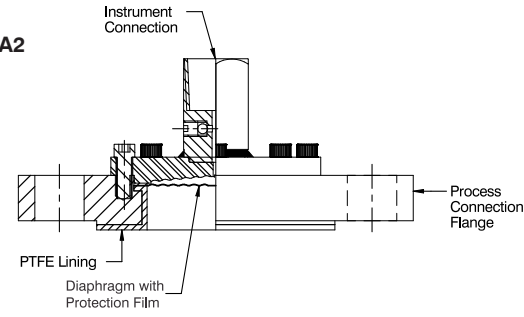
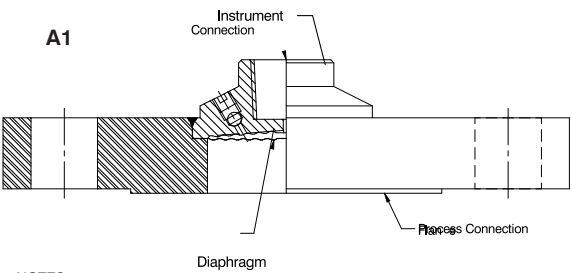
[#] Check temperature & pressure rating with factory before ordering.

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TGI20-1

ORDERING CODES						TGI20-1
MODEL						
TGI20-1 Flanged diaphragm -Fully Welded seal / Screwed type						A2
SEAL TYPE						
A1 Fully welded Flanged Diaphragm seal		A2 Screwed Flanged Diaphragm Seal				S01
TOP CHAMBER MATERIAL						
S09 ASTM A105		S01 AISI 304 SS		S02 AISI 316 SS		S03
DIAPHRAGM MATERIAL						
S03 AISI 316L SS		S05 Monel 400		S10 Hastelloy C-276		S02
S06 Inconel 600		S07 Titanium		S08 Tantalum		
BOTTOM CHAMBER MATERIAL						
S01 AISI 304 SS		S02 AISI 316 SS		S03 AISI 316L SS		P28
S05 Monel 400		S10 Hastelloy C-276		S07 Titanium		
S08 Tantalum		S11 PTFE		S16 PVC		
S18 Polypropylene		S19 PVDF				
INSTRUMENT CONNECTION						XXX
P28 ½" NPT (F)		P23 ¼" BSP (F)		P27 ½" BSP (F)		
P24 ¼" NPT (F)						G1
PROCESS CONNECTION						
XXX As per Flange table						L1
FLANGE FACING						
G1 Serrated raised face		G2 Flat face		G3 Ring type joint face		R1
G4 Tongue & Groove face						
SEALING FLUID						XX
XX As per Filling liquid Vs Temperature Rating table						
EXECUTION						XXXXX
R1 Direct		R2 Remote				
CAPILLARY MATERIAL						XX
S01 AISI 304 SS		S02 AISI 316 SS				
ARMOUR MATERIAL						XXXXX
S01 AISI 304 SS		S02 AISI 316 SS		S16 PVC [Ambient ≤60°C]		
REMOTE DISTANCE						E112
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 : TGI20-1-A1.S01.S03.S02.P28.F07.G1.L1.R1/XX.XX.XXXXX/XXX



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