

FULLY WELDED DIAPHRAGM SEAL -HEAVY DUTY SEAL

TGI21

APPLICATIONS

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

FEATURES

- Economical and light weight
- All welded construction



FULLY WELDED DIAPHRAGM SEAL-HEVY DUTY, TGI21

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.

Standard version

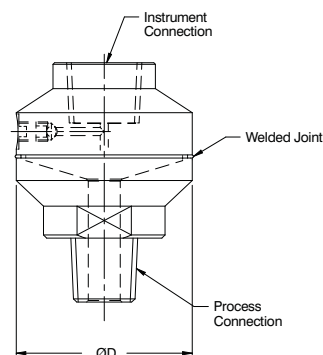
Seal type : -1...0...2.5 bar [Low Pr.] / 6...70 bar [Standard]
100...280 bar [High Pr. 1] / 350...700 bar [High Pr. 2]

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

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

Process connection : 1/2" NPT (M) / 1/2" BSP (M)

GA DRAWING



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

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

FULLY WELDED DIAPHRAGM SEAL -HEAVY DUTY SEAL

TGI21

ORDERING CODES								
MODEL						TGI21		
TGI21	Fully Welded diaphragm							
seal SEAL TYPE						R02		
R04	-1...0...2.5 bar [Low Pressure]		R05	4...70 bar [Standard]			R06	100...280 bar [High Pressure 1]
R06	100...280 bar [High Pressure 1]							
TOP 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	
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							
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 ≤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 : TGI21-R02.S01.S03.S02.P28.P08.L1.R1/XX.XX.XXXXX/XXX

Note : For GA Drawings, kindly contact factory.