

FULLY WELDED DIAPHRAGM SEAL -COMPACT DESIGN

TGI23

APPLICATIONS

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

FEATURES

- Economical and light weight
- All welded construction



FULLY WELDED DIAPHRAGM SEAL-COMPACT DESIGN, TGI23

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

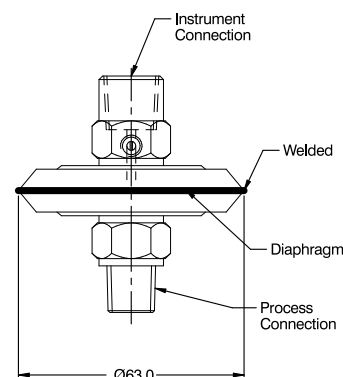
Seal type : -1...0...2.5 bar [Low Pr.] / 6...70 bar [Standard]
100...280 bar [High Pr. 1] / 350...700 bar [High Pr. 2]

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	Seal type	Range	ØD
L1	Silicon DC 200	-40°C to 205°C	R04	-1...0...2.5 bar [Low Pressure]	Ø62.2
L2	Glycerin	10°C to 150°C	R05	4...70 bar [Standard]	Ø55.0
L3	Food Grade oil	-20°C to 140°C	R06	100...280 bar [High Pressure 1]	Ø46.5
L4	Syltherm 800	-40°C to 315°C	R07	350...700 bar [High Pressure 2]	Ø34.0
L5	Silicon DC 710	7°C to 371°C			

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ORDERING CODES						
MODEL						TGI23
TGI23 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	
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	
REMOTE DISTANCE						XXXXX
XXXXX	500 mm (Min.) to 25000 mm (Max.)					
OTHER OPTIONS						XXX
E77	Dry Seal		E31	Material test certificate 3.1	E32	

Ordering Example : TGI23-R15.S01.S03.S02.P23.P03.L1.R1/XX.XX.XXXXX/XXX

Note : For GA Drawings, kindly contact factory.

