

FLANGED WITH WELDED DIAPHRAGM SEAL

TGI29-2

APPLICATIONS

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

FEATURES

- Large volume type design
- Flushed diaphragm
- Welded diaphragm
- Optional flushing ring
- Optional exotic materials



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DESCRIPTION

General

Flange design : ANSI B16.5 / EN 1092-1 / BS-10 **Storage temperature :** -40...+65°C

Service temperature : 370°C max.

Weld joints :Welded Top Chamber with Diaphragm and Flange

Material of construction

Sensing Element : Diaphragm

Diaphragm : AISI 316L SS / Monel 400 / Hastelloy C-276

Inconel 600 / Titanium / Tantalum

Flange material : AISI 304SS /AISI 316 SS

Top Chamber material : AISI 304SS

Capillary : AISI 304 SS / AISI 316 SS

Armour : AISI 304 SS / AISI 316 SS / PVC
0.25 Mtr. to 25 Mtr.

Remote distance :

Standard version

Seal type : -1...250 bar (Flange $\geq 1.5"$) /
4...250bar (Flanges $\frac{1}{2}"$ to $1"$)

Instrument connection : $\frac{1}{2}"$ NPT (F) / $\frac{1}{2}"$ BSP (F)

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

Process connection : Flange as per standard between $\frac{1}{2}"$ to $4"$

Flange facing type : Flat Face / Raised Face / Ring Type Joint

Wetted parts protection

Service temperature : 200°C max.

PTFE coating on Diaphragm & Flange

PTFE Coating - 100 Micron thick

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

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ORDERING CODES							
MODEL						TGI29-2	
TGI29-2 Flanged welded diaphragm seal							
SEAL TYPE						R12	
R12	-1...0...250 bar [Flange ≥1.5"]		R13	4...250bar [Flanges ½" to 1"]			
DIAPHRAGM						S03	
S03	AISI 316L SS		S05	Monel 400	S10		Hastelloy C-276
S06	Inconel 600		S07	Titanium	S08		Tantalum
CHAMBER / FLANGE						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						XXX	
XXX	As per Flange table						
FLANGE FACING						G1	
G1	Serrated raised face		G2	Flat face	G3		Ring type joint face
G4	Tongue & Groove face						
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 : TGI29-2-R12.S03.S02.P28.F07.G1.L1.R1/XX.XX.XXXXX/XXX