

SILIP RING COUPLED DIAPHRAGM SEAL TGI22-2

APPLICATIONS

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

FEATURES

- Rigid construction
- Forged sealing chambers
- Laser welded diaphragm
- Optional exotic materials



SLIP RING COUPLED DIAPHRAGM SEAL, TGI22-2

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 : ASTM A105 / 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 / PVC[#] / PVDF[#] / Polypropylene[#]
PTFE[#]

Slip Ring material : AISI 304SS (R02,R08)/
Steel Powder coated(R01)

Capillary : AISI 304 SS / AISI 316 SS

Armour : AISI 304 SS / AISI 316 SS / PVC

Remote distance : 0.25 Mtr. to 25 Mtr.

Standard version

Seal type : -1...0...70 bar [Standard] / 100...210 bar [High Pr. 1]
250...400 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)

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

SLIP RING COUPLED DIAPHRAGM SEAL

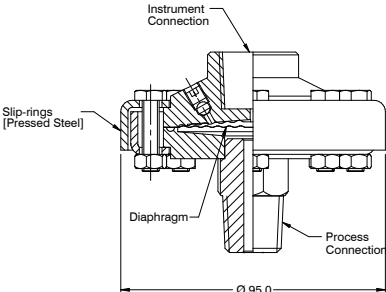
TGI22-2

ORDERING CODES								
MODEL						TGI22-2		
TGI22-2 Slip Ring diaphragm seal								
SEAL TYPE						R02		
R01	-1...0...21 bar [Eco]		R02	-1...0...70 bar [Standard]			R08	100...400 bar [High pressure]
TOP CHAMBER						S01		
S09	ASTM A105		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		S11	PTFE		S16	PVC	
S18	Polypropylene		S19	PVDF				
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

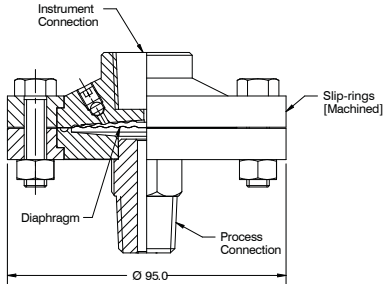
Ordering Example : TGI22-2-R02.S01.S03.S02.P28.P08.L1.R1/XX.XX.XXXXX/XXX

GA DRAWING

R01



R02 & R08



NOTES

1. Standard GA Drawing. Not to scale.

2. Detailed GA Drawings are available, kindly contact factory.