

APPLICATIONS

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

FEATURES

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



FLANGED FLUSH DIAPHRAGM SEAL, ANI29-1

DESCRIPTION

General

Flange design : ANSI B16.5 / EN 1092-1 / BS-10

Storage temperature : -40...+65°C

Service temperature : 370°C max.

Weld joints : Laser welding for Diaphragm and
TIG argon arc welding for other parts

Material of construction

Sensing element : Diaphragm

Diaphragm : AISI 316L SS / Monel 400 / Hastelloy C-276
Inconel 600 / Titanium / Tantalum

Flange material : ASTM A105 / AISI 304SS / AISI 316 SS

Hastelloy C-276/ AISI 316L SS / Monel / Titanium/Tantalum

Coupling flanges & hardware : AISI 304 SS

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...25 bar (Flange >1.5") /
4...250bar (Flanges ½" to 1")

Instrument connection : ½" NPT (F) / ½" BSP (F)

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

Process connection : Flange as per standard between ½" to 4"

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

Wetted parts protection

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

ORDERING CODES

MODEL						ANI29-1
ANI29-1 Flanged flush diaphragm seal						
SEAL TYPE						R12
R12	-1...0...250 bar [Flange >1.5"]		R13	4...250BAR [Flange >½" TO 1"]		
DIAPHRAGM						S03
S03	AISI 316L SS		S05	Monel 400		
S06	Inconel 600		S07	Titanium		
S10	Hastelloy C-276		S08	Tantalum		
CHAMBER / FLANGE						S02
S01	AISI 304 SS		S02	AISI 316 SS		
S05	Monel 400		S10	Hastelloy C-276		
S08	Tantalum		S03	AISI 316L SS		
INSTRUMENT CONNECTION						P28
P28	½" NPT (F)		P23	¼" BSP (F)		
P24	¼" NPT (F)		P27	½" BSP (F)		
PROCESS CONNECTION						XXX
XXX	As per Flange table					
FLANGE FACING						G1
G1	Serrated raised face		G2	Flat face		
G4	Tongue & Groove face		G3	Ring type joint 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 ;Ü60°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 : ANI29-1-R12.S03.S02.P28.F07.G1.L1.R1/XX.XX.XXXXX/XXX