

FULLY WELDED DIAPHRAGM SEAL-HEAVY DUTY SEAL ZIPL21



APPLICATION

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

FEATURES

- Economical and light weight
- All welded construction



FULLY WELDED DIAPHRAGM SEAL-HEAVY DUTY, ZIPL21

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

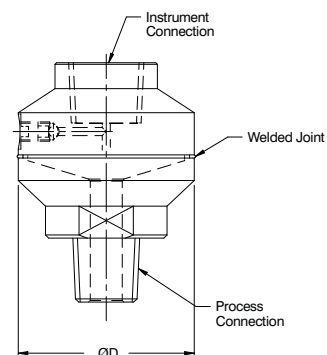
Seal type : -1...0...2.5 bar [Low Pr.] / 6...70 bar [Standard]
100...280 bar [High Pr. 1] / 350...700 bar [High Pr. 2]

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

ZIPL21



ORDERING CODE						ZIPL21
MODEL						
ZIPL21 Fully Welded diaphragm						
seal SEAL TYPE						
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	AISI 304 SS	S02	AISI 316 SS			
DIAPHRAGM						
S03	AISI 316L SS	S05	Monel 400	S10	Hastelloy C-276	
S06	Inconel 600	S07	Titanium	S08	Tantalum	
BOTTOM CHAMBER						
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	1/2" NPT (F)	P23	1/4" BSP (F)	P27	1/2" BSP (F)	
P24	1/4" NPT (F)					
PROCESS CONNECTION						
P04	1/4" NPT (M)	P08	1/2" NPT (M)	P20	M20 X 1.5 mm (M)	
P03	1/4" BSP (M)	P05	3/8" BSP (M)	P07	1/2" BSP (M)	
P28	1/2" NPT (F)	P23	1/4" BSP (F)	P27	1/2" BSP (F)	
P24	1/4" NPT (F)					
All other connections are available on request.						
SEALING FLUID						
XX	As per Filling liquid Vs Temperature Rating table					
EXECUTION						
R1	Direct	R2	Remote			
CAPILLARY MATERIAL						
S01	AISI 304 SS	S02	AISI 316 SS			
ARMOUR MATERIAL						
S01	AISI 304 SS	S02	AISI 316 SS	S16	PVC [Ambient ≤60°C]	
REMOTE DISTANCE						
XXXXX	500 mm (Min.) to 25000 mm (Max.)					
OTHER OPTIONS						
E77	Dry Seal	E31	Material test certificate 3.1	E32	Material test certificate 2.2	

Ordering Example : ZIPL21-R02.S01.S03.S02.P28.P08.L1.R1/XX.XX.XXXXX/XXX

Note : For GA Drawings, kindly contact factory.

