

# DIRECT COUPLED DIAPHRAGM SEAL- BAR STOCK SSKE22-1

## APPLICATIONS

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

## FEATURES

- Rigid construction
- Laser welded diaphragm
- Optional exotic materials



DIRECT COUPLED DIAPHRAGM SEAL, SSKE22-1

## 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

316SS-Made from Solid Bar,

**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 -Made from solid Bar

**Hardware :** AISI 304 SS

**GASKET :** PTFE

**Capillary :** AISI 304 SS / AISI 316 SS

**Armour :** AISI 304 SS / AISI 316 SS / PVC

**Remote distance :** 0.25 Mtr. to 25 Mtr.

Check temperature & pressure rating with factory before ordering.

### Standard version

**Seal type :** -1...0...21 bar [Eco] / -1...0...70 bar [Standard] /  
100...400 bar [High pressure]

**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)

### 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

# DIRECT COUPLED DIAPHRAGM SEAL- BAR STOCK SSKE22-1

## ORDERING CODES

### MODEL

**SSKE22-1** Direct coupled diaphragm seal

SSKE22-1

### SEAL TYPE

**R02** -1...0...70 bar [Standard]      **R08** 100...210 bar [High Pr. 1]      **R09** 250...400 bar [High Pr. 2]

R02

### TOP CHAMBER

**S09** ASTM A105      **S01** AISI 304 SS      **S02** AISI 316 SS

S01

### DIAPHRAGM

**S03** AISI 316L SS      **S05** Monel 400      **S10** Hastelloy C-276  
**S06** Inconel 600      **S07** Titanium      **S08** Tantalum

S03

### 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      **S11** PTFE      **S16** PVC  
**S18** Polypropylene      **S19** PVDF

S02

### INSTRUMENT CONNECTION

**P28** 1/2" NPT (F)      **P23** 1/4" BSP (F)      **P27** 1/2" BSP (F)  
**P24** 1/4" NPT (F)

P28

### 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)

P08

All other connections are available on request.

### SEALING FLUID

**XX** As per Filling liquid Vs Temperature Rating table

L1

### EXECUTION

**R1** Direct      **R2** Remote

R1

### CAPILLARY MATERIAL

**S01** AISI 304 SS      **S02** AISI 316 SS

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### ARMOUR MATERIAL

**S01** AISI 304 SS      **S02** AISI 316 SS      **S16** PVC [Ambient ≤60°C]

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### REMOTE DISTANCE

**XXXXX** 500 mm (Min.) to 25000 mm (Max.)

XXXXX

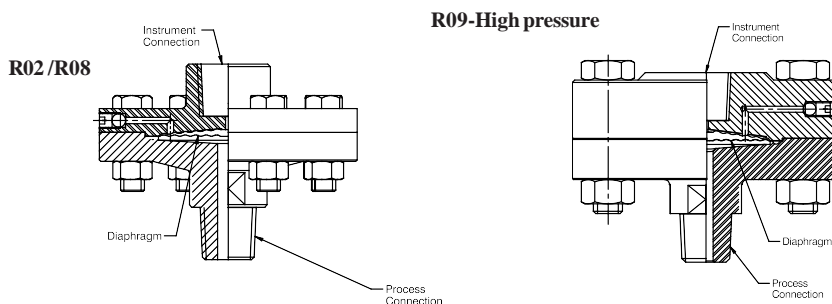
### OTHER OPTIONS

**E77** Dry Seal      **E31** Material test certificate 3.1      **E32** Material test certificate 2.2

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**Ordering Example : SSKE22-1-R02.S01.S03.S02.P28.P08.L1.R1/XX.XX.XXXXX/XXX**

## GA DRAWING



### NOTES

1. Standard GA Drawing. Not to scale.
2. Detailed GA Drawings are available, kindly contact factory.

## SHREE SAMARTH KRUPA ENGINEERS

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