

# FLANG WITH ROTATING DIAPHRAGM SEAL

## SSKE29-3

### APPLICATIONS

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

### FEATURES

- Rotating Diaphragm Seal design
- Flushed diaphragm
- Welded diaphragm
- Optional flushing ring
- Optional exotic materials



FLANGED ROTATING DIAPHRAGM SEAL, SSKE29-3

## 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 for Diaphragm

### 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**

**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...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**

**Material :** PTFE Coating - 100 Micron thick

**Service temperature :** 150°C max.

### Filling liquids Vs Temperature range

CODE	Fluid Name	Temperature Range
L1	Silicon DC200	-40°C to 205°C
L2	Glycerin	10°C to 150°C
L3	FoodGradeoil	-20°C to 140°C
L4	Syltherm 800	-40°C to 315°C
L5	Silicon DC710	7°C to 371°C

# FLANGE WITH ROTATING DIAPHRAGM SEAL

## SSKE29-3

### ORDERING CODES

<b>MODEL</b>				<b>SSKE29-3</b>	
<b>SSKE29-3</b> Flange with Rotating diaphragm seal					
<b>SEAL TYPE</b>					
<b>R12</b>	-1...0...250 bar [Flange ≥1.5"]	<b>R13</b>	4...250bar [Flanges ½" to 1"]	<b>R12</b>	
<b>DIAPHRAGM</b>					
<b>S03</b>	AISI 316L SS	<b>S05</b>	Monel 400	<b>S10</b>	Hastelloy C-276
<b>S06</b>	Inconel 600	<b>S07</b>	Titanium	<b>S08</b>	Tantalum
<b>CHAMBER / FLANGE</b>					
<b>S01</b>	AISI 304 SS	<b>S02</b>	AISI 316 SS	<b>S03</b>	AISI 316L SS
<b>S05</b>	Monel 400	<b>S10</b>	Hastelloy C-276	<b>S07</b>	Titanium
<b>S08</b>	Tantalum				
<b>INSTRUMENT CONNECTION</b>					
<b>P28</b>	½" NPT (F)	<b>P23</b>	¼" BSP (F)	<b>P27</b>	½" BSP (F)
<b>P24</b>	¼" NPT (F)				
<b>PROCESS CONNECTION</b>					
<b>XXX</b>	As per Flange table				
<b>FLANGE FACING</b>					
<b>G1</b>	Serrated raised face	<b>G2</b>	Flat face	<b>G3</b>	Ring type joint face
<b>G4</b>	Tongue & Groove face				
<b>SEALING FLUID</b>					
<b>XX</b>	As per Filling liquid Vs Temperature Rating table				
<b>EXECUTION</b>					
<b>R1</b>	Direct	<b>R2</b>	Remote		
<b>CAPILLARY MATERIAL</b>					
<b>S01</b>	AISI 304 SS	<b>S02</b>	AISI 316 SS		
<b>ARMOUR MATERIAL</b>					
<b>S01</b>	AISI 304 SS	<b>S02</b>	AISI 316 SS	<b>S16</b>	PVC [Ambient ≤60°C]
<b>REMOTE DISTANCE</b>					
<b>XXXXX</b>	500 mm (Min.) to 25000 mm (Max.)				
<b>OTHER OPTIONS</b>					
<b>E77</b>	Dry Seal	<b>E31</b>	Material test certificate 3.1	<b>E32</b>	Material test certificate 2.2

Ordering Example : **SSKE29-3-R12.S03.S02.P28.F07.G1.L1.R1/XX.XX.XXXXX/XXX**