

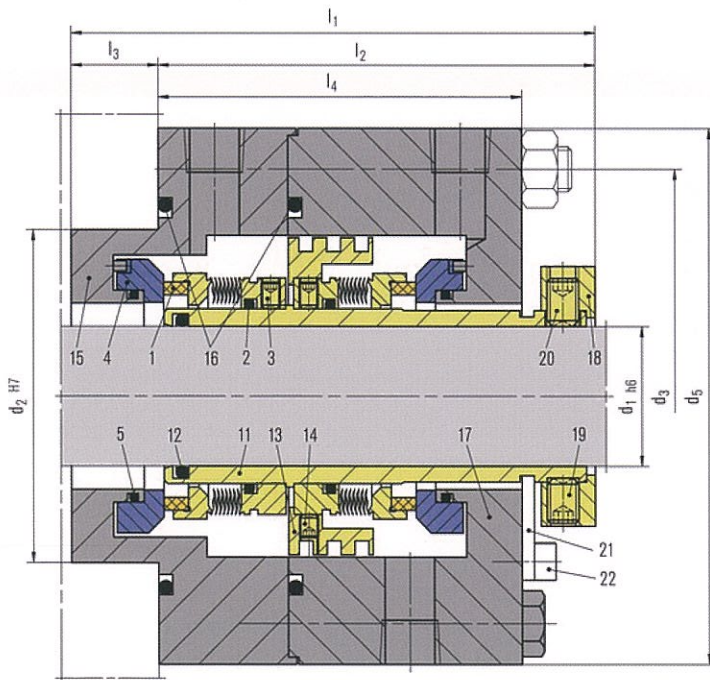
# LY9DZSS

## Features

- API 682 Category 2 and 3, Type B, Arrangement 3 seal
- Dual seal in back-to-back arrangement
- Same seal size of inboard and outboard seal
- Balanced
- Cartridge unit
- Rotating metal bellows
- Shrink fitted seal ring and solid mating ring

## Advantages

- Compact design
- Bellows design allows use of balanced seal with plain sleeve
- Absence of dynamic O-Ring eliminates/reduces seal face hang-up
- Bellows design minimizes variation in face load due to shaft expansion or face wear
- Resistant to abrasive particles in the medium, no shaft or sleeve fretting
- Low heat generation and power consumption due to narrow seal face width
- Longer seal life



Item	Description
1	Seal ring with bellows unit
2, 5, 12, 16	O-Ring
3, 14, 19, 20	Set screw
4	Mating ring
11	Seal sleeve
13	Pumping ring
15, 17	Gland plate
18	Drive collar
21	Setting device
22	HSH Cap screw

# LY9DZSS (2)

## Recommended applications

- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology
- LPG plants
- API 610 / ISO 13709 pumps
- Process pumps

## Operating range

Pressure: p = vacuum ... 20 bar (290 PSI)  
 Temperature: t = -40 °C ... +200 °C (-40 °F ... +392 °F)  
 Sliding velocity: vg ... 23 m/s (75 ft/s)  
 Viscosity: ... 1,000 mPas  
 Solids content: ... 0.5 wt.%

## Standards and approvals

- API 682 / ISO 21049

## Materials

Seal ring: Blister resistant carbon  
 Mating ring:  
 Silicon carbide SSiC (Q1), RBSiC (Q2)  
 Bellows: Hastelloy® C-276 (M5),  
 option: Inconel® 718 (M6)  
 Secondary seals:  
 FKM (V), FFKM (K), EPDM (E), NBR (P)  
 Metal parts: CrNiMo steel 316 (G),  
 Hastelloy® C-276 (M5)

## Recommended piping plans

Process side:  
 02, 11, 12, 13, 14, 21, 22, 31, 32, 41  
 Between seals:  
 53A, 53B, 53C, 54  
 Atmospheric side\*:  
 61, 62, 65A, 65B

\* Throttle bushing on request

## Dimensions

API/d <sub>1</sub>	API/d <sub>2</sub>	API/d <sub>3</sub>	d <sub>5</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>
20	70	105	-	-	-	-	-
30	80	115	138	125	98	27	82
40	90	125	148	128	98	30	82
50	100	140	168	137	107	30	87
60	120	160	188	137	107	30	87
70	130	170	198	137	107	30	87
80	140	180	208	137	107	30	87
90	160	205	238	145	115	30	95
100	170	215	248	150	115	35	95
110	180	225	258	150	115	35	95

Dimensions in millimeter

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All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values. We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.