

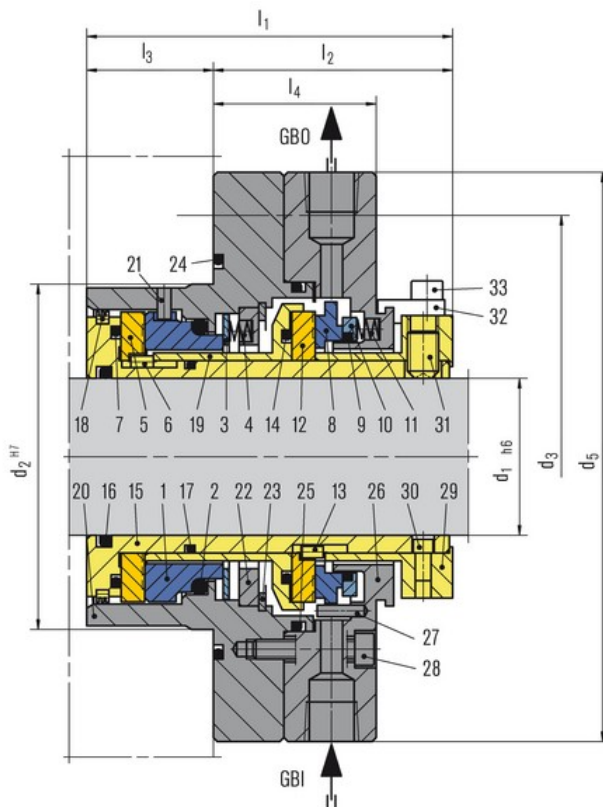
# LNF992

## Features

- API 682 Category 2 and 3, Type A, Arrangement 3 seal
- Dual seal in face-to-back arrangement
- Gas-lubricated
- Balanced
- Cartridge unit
- Stationary multiple springs
- Independent of direction of rotation
- Solid seal faces

## Advantages

- Non-contacting stationary spring unit design
- No process fluid penetration into the seal faces, no leakage to the atmospheric side
- Appropriate to slurry fluid
- Applicable inboard seal design for reverse and positive pressure
- Low power consumption



Item	Description
1,8	Seal ring
2, 7, 9, 14, 16, 17, 24, 25	O-Ring
3, 10	Thrust ring
4, 11	Spring
5, 12	Mating ring
6, 13, 21, 27, 30	Pin
15	Seal sleeve
18	Labyrinth
19	Adapter sleeve
20, 26	Gland plate
22	Adapter
23	Retaining ring
28, 33	HSH cap screw
29	Drive collar
31	Set screw
32	Setting device

# LNF992 (2)

## Recommended applications

- Chemical industry
- Refining technology
- Hazardous media
- Monomers

## Operating range

Pressure: p = vacuum ... 16 bar (232 PSI)  
Temperature: t = -40 °C ... 160 °C (-40 °F ... 320 °F)  
Sliding velocity: vg = 23 m/s (75 ft/s)  
Viscosity: ... 300 mPa·s  
Solids content: ... 20 wt. %

## Standards and approvals

- API 682 / ISO 21049

## Materials

Seal ring: Silicon carbide SSiC (Q1),  
High density carbon graphite  
Mating ring: Silicon carbide SSiC (Q1)  
Secondary seals: FKM (V)  
Springs: Hastelloy® C-276 (M5)  
Metal parts: CrNiMo steel 316 (G)

## Recommended piping plans

Process side:  
02, 32  
Between seals:  
74

## 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>
30	80	115	138	87	49	38	31.5
40	90	125	148	93	52	41	32.5
50	100	140	168	97	54	43	34.5
60	120	160	188	97	54	43	34.5
70	130	170	198	97	54	43	34.5
80	140	180	208	99	56	43	34.5
90	160	205	238	99	56	43	34.5
100	170	215	248	99	56	43	34.5

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