EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

High temperature advanced seals YE400, Y014

Mechanical Seals | Mechanical seals for pumps | Metal bellows seals

Features

- Stationary bellows seal
- Balanced
- Uniform seal face loading
- Independent of direction of rotation

Advantages

- Over 35 years of running reference in the field
- Ideal seal for low as well as high temperature applications
- Ideal seal for high speed application
- Can take more shaft misalignment and run-out than rotary seals
- Seal is free from shaft vibration effect

Operating range

Shaft diameter: d = 18 ... 130 mm (0.7" ... 5.11")
Pressure:
p = vacuum to 20 bar (290 PSI) (single ply)
p = vacuum to 35 bar (507 PSI) (double ply)
Temperature: t = -240 °C ... +425 °C (-400 °F ... +797 °F)
Sliding velocity: vg = 50 m/s (164 ft/s)
Axial movement: ±0.8 mm

(Consult EB for applications outside above limits).

Materials

Seal ring: Carbon graphite, Silicon carbide, Tungsten carbide
Mating ring: Silicon carbide, Tungsten carbide
Bellows: Inconel® 718, AM 350
Metal parts: Alloy 20 retainers, other materials in SS316

Recommended applications

- Process industry
- Oil and gas industry
- Refining technology
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Power plant technology
- Water and waste water technology
- Building services industry
- Food and beverage industry
- Sugar industry
- Horizontal and vertical pumps, agitators, mixers

Recommended piping plans

API Plans 01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41, 52, 53A, 53B, 53C, 54, 55, 61, 62, 65A, 65B, 66

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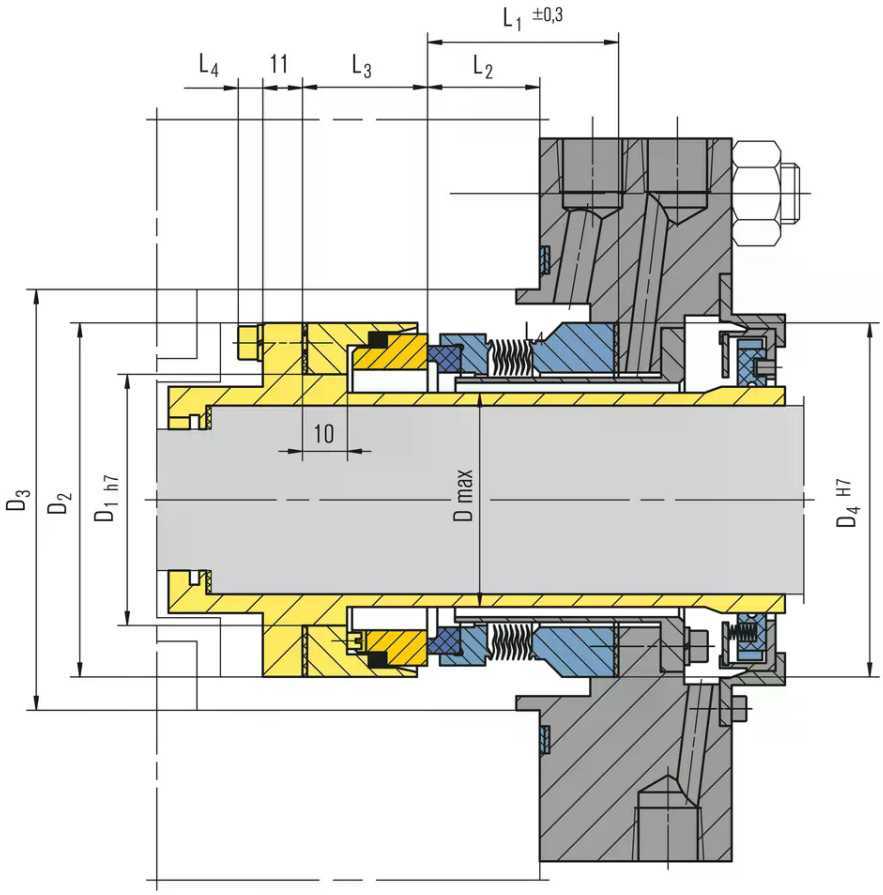
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



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Dimensions

Dash size	D (metric)	D (inch)	D1	D2	D3	D4	L1	L2	L3	L4
D014	18.0	0.709	21.0	42.0	47.0	44.0	36.0	15.0	31.0	6.3
D016	21.0	0.827	26.0	47.0	50.0	47.0	38.0	17.0	31.0	6.3
D018	24.0	0.945	29.0	50.0	53.0	50.0	38.0	17.0	31.0	6.3
D020	27.5	1.083	32.0	53.0	56.0	53.0	38.0	17.0	31.0	6.3
D022	31.0	1.220	36.0	57.0	60.0	57.0	38.0	17.0	31.0	6.3
D024	33.0	1.299	39.0	60.0	64.0	60.0	41.0	20.0	31.0	6.3
D026	36.0	1.417	42.0	63.0	67.0	63.0	41.0	20.0	31.0	6.3
D028	39.0	1.535	45.0	66.0	70.0	66.0	41.0	20.0	31.0	6.3
D030	42.0	1.654	48.0	69.0	73.0	69.0	41.0	20.0	31.0	6.3
D032	45.0	1.772	51.0	72.0	76.0	72.0	41.0	20.0	31.0	6.3
D034	46.5	1.831	54.0	75.0	80.0	76.0	43.0	22.0	31.0	6.3
D036	50.0	1.969	58.0	79.0	83.0	79.0	43.0	22.0	31.0	6.3
D038	53.0	2.087	61.0	82.0	86.0	82.0	43.0	22.0	31.0	6.3
D040	55.0	2.165	64.0	85.0	89.0	85.0	51.0	30.0	31.0	6.3
D042	58.5	2.303	67.0	89.0	92.0	88.0	51.0	30.0	31.0	6.3
D044	62.5	2.461	71.0	92.0	96.0	92.0	51.0	30.0	31.0	6.3
D046	64.0	2.520	74.0	96.0	99.0	95.0	55.0	34.0	31.0	6.3
D048	67.0	2.638	77.0	99.0	102.0	98.0	55.0	34.0	31.0	6.3
D050	70.0	2.756	81.0	102.0	105.0	101.0	55.0	34.0	31.0	6.3
D052	73.0	2.874	84.0	105.0	108.0	104.0	55.0	34.0	31.0	6.3
D054	75.5	2.972	87.0	109.0	111.0	107.0	55.0	34.0	31.0	6.3
D056	78.5	3.091	90.0	113.0	116.0	111.0	58.0	37.0	31.0	6.3
D058	82.0	3.228	93.0	116.0	120.0	114.0	58.0	37.0	31.0	6.3
D060	85.0	3.346	96.0	119.0	122.0	117.0	58.0	37.0	31.0	6.3
D062	88.0	3.465	99.0	122.0	125.0	120.0	58.0	37.0	31.0	6.3
D064	91.0	3.583	103.0	125.0	128.0	123.0	58.0	37.0	31.0	6.3
D070	100.0	3.937	111.0	138.0	142.0	134.0	60.0	39.0	31.0	6.3
D078	110.0	4.331	116.0	147.0	152.0	145.0	60.0	39.0	41.0	7.5
D090	129.0	5.079	137.0	168.0	173.0	166.0	63.0	42.0	41.0	7.5

Imperial size

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