EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

Low temperature seals
Y12, Y13, Y33, Y17, Y18, Y37

Mechanical Seals | Mechanical seals for pumps | Metal bellows seals

Features

- Rotating bellows seal
- Balanced
- No dynamic O-Ring, no hang-up, no shaft sleeve damage
- Uniform seal face loading
- Independent of direction of rotation
- Ideally suited for highly corrosive and abrasive media
- Compact design

Advantages

- Over 35 years of running reference in the field
- Narrow cross-section allows the seal fitment in narrow stuffing boxes
- Self cleaning, non-clogging design
- Cost effective solution for corrosive and abrasive media
- Long seal life

Operating range

Shaft diameter:
d = 25 ... 100 mm (1" ... 3.94")
Pressure:
p = vacuum to 25 bar (362 PSI) (single ply)
p = vacuum to 50 bar (1,000 PSI) (double ply)
Temperature:
t = -75 °C ... +260 °C (-103 °F ... +500 °F)
Sliding velocity: vg = 25 m/s (82 ft/s)
Axial movement: ±0.8 mm

(Consult EB for applications outside above limits).

Materials

Seal ring: Carbon graphite resin impregnated, Carbon graphite antimony impregnated
Mating ring: Silicon carbide, Tungsten carbide
Secondary seals: FKM, FFKM, PTFE
Bellows material:
Y12 = Titanium
Y13 = AM350
Y33 = AM350
Y17 = Hastelloy® C-4
Y19 = Alloy 20
Y37 = Inconel 625
Metal parts: SS 316, other materials on request.

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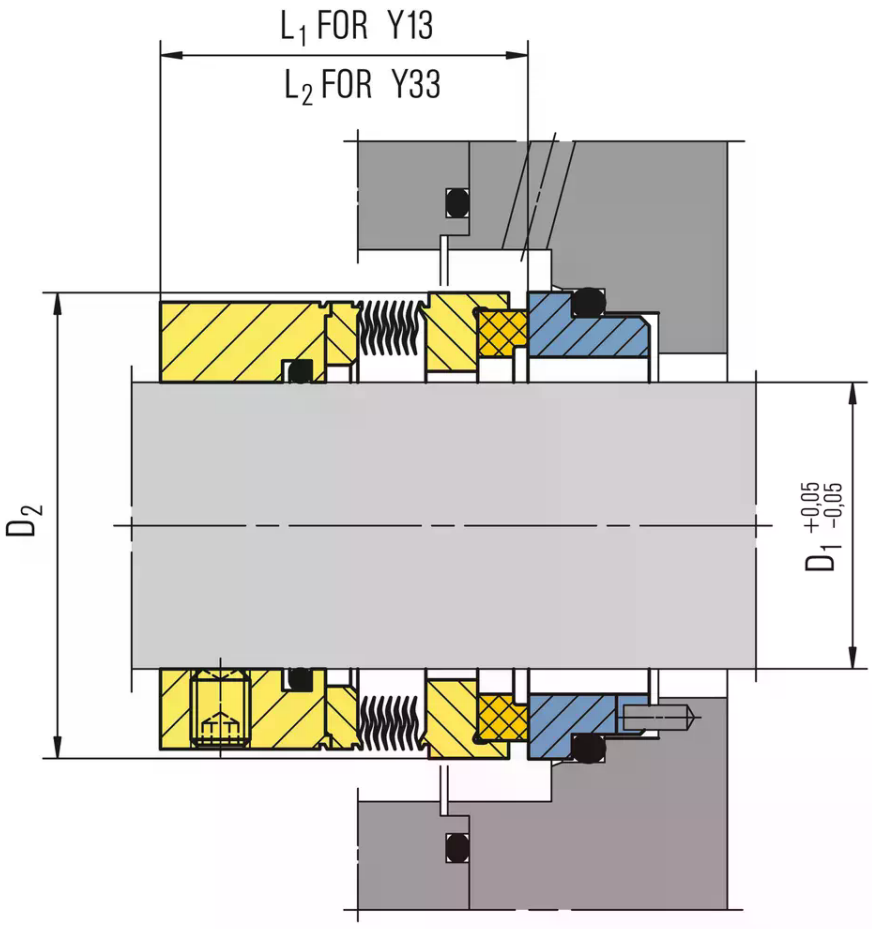
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



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Dimensions

Dash size	D1	D2	L1	L2
D016	25.40	41.28	28.58	30.15
D018	28.58	44.45	30.18	31.75
D020	31.75	47.63	30.18	31.75
D022	34.93	50.80	33.35	34.93
D024	38.10	53.98	33.35	37.79
D026	41.28	57.15	34.14	38.88
D028	44.45	60.33	34.52	38.88
D030	47.63	63.50	34.93	39.67
D032	50.80	66.68	35.71	40.46
D034	53.98	69.85	36.53	41.28
D036	57.15	73.03	36.53	41.28
D038	60.32	76.20	37.31	42.06
D040	63.50	82.55	38.10	44.45
D042	66.67	85.72	39.67	46.02
D044	69.85	88.90	42.85	46.02
D046	73.02	93.65	42.85	48.41
D048	76.20	96.82	42.85	48.41
D050	79.37	101.60	42.85	48.41
D052	82.55	104.78	42.85	48.41
D054	85.72	107.95	42.85	48.41
D056	88.90	111.13	42.85	48.41
D058	92.08	114.30	42.85	48.41
D060	95.25	117.48	42.85	48.41
D062	98.43	120.68	42.85	48.41
D064	101.6	123.83	42.85	48.41

Imperial size

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