EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

BT-ARP

Mechanical Seals | Mechanical seals for pumps | Elastomer bellows seals

Features

- For plain shafts
- Elastomer bellows rotating
- Unbalanced
- Single seal
- Independent of direction of rotation
- protected spring

Advantages

- Especially design for solid containing media
- Spring is protected from the product, thus preventing sticking or clogging
- Dimension adaptions and additional seats available
- Reliable for rugged operation such as wastewater treatment
- Shaft protection over entire seal length

Operating range

Shaft diameter:
d1** = 20 ... 50 mm (0.79" ... 1.57")

Pressure:
p1* = 6 bar (87 PSI)

Temperature:
t* = -20 °C ... +90 °C (-4 °F ... +194 °F)

Sliding velocity:
vg = 10 m/s (33 ft/s)

* Dependent on medium, size and materials
** Other diameters upon request

Materials

Seal face*:
Silicon carbide (Q1, Q6),
Tungsten carbide (U)

Seat:
Silicon carbide (Q1, Q6, Q7),
Tungsten carbide (U)

Elastomers:
NBR (P), FKM (V), HNBR (X4)

Metal parts:
CrNi steel 1.4301 (F), CrNiMo steel 1.4401 (G)

* Seal face available in solid or shrink fit/brazed version

Recommended applications

- Water and waste water technology
- Raw sludge, sewage slurries
- Contaminated, abrasive and solid containing media
- Submersible pumps
- Raw sludge pumps

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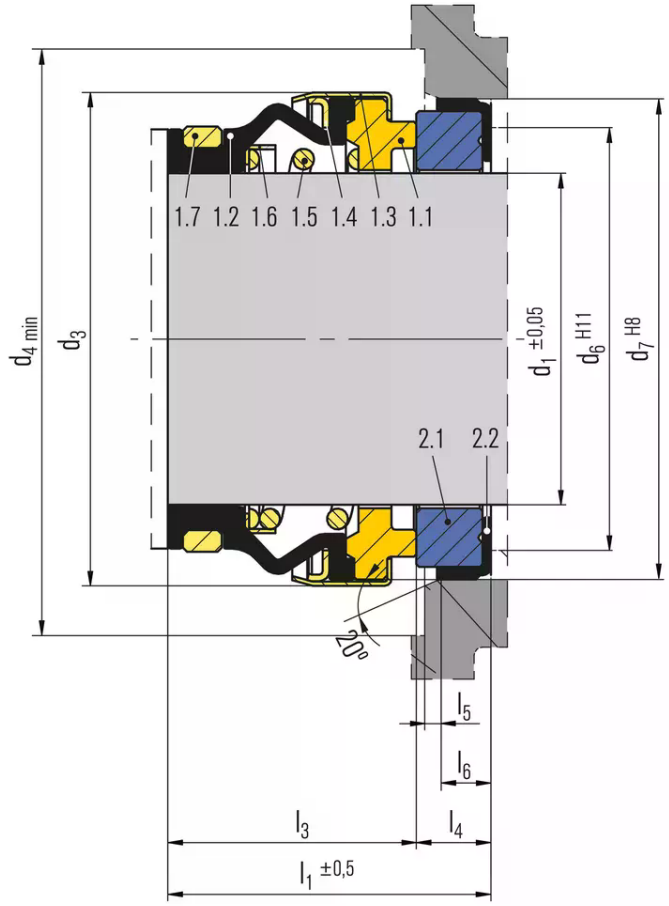
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



Item	Description
1.1	Seal face
1.2	Bellows
1.3	Collar
1.4	Locing ring
1.5	Spring
1.6	L-ring
1.7	Drive ring
2.1	Seat
2.2	Gasket

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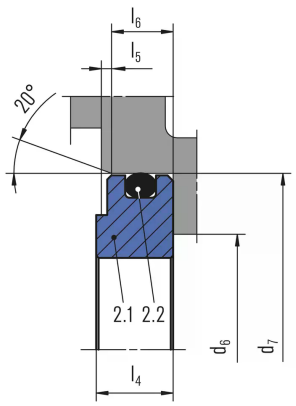
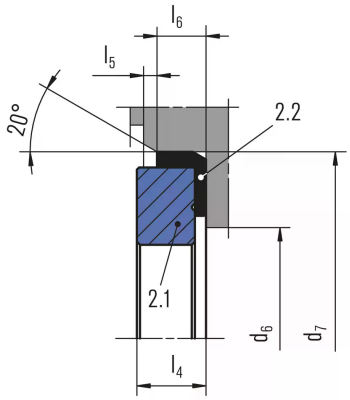
Seat alternatives



PF A

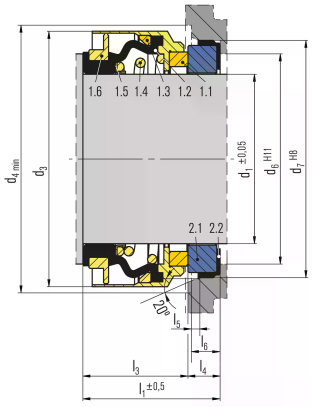
Item Description
2.1 Stationary seat
2.2 O-ring



PF C

Item Description
2.1 Stationary seat
2.2 Gasket

Product variants



BT-ARPs

Special design - super protected
(upon request)

Item Description
1.1 Seal face
1.2 Bellows
1.3 Locking ring
1.4 Spring
1.5 L-ring
1.6 Drive ring
2.1 Seat
2.2 Gasket

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Dimensions

d_1	d_3	d_4	d_6	d_7	l_1	l_3	l_4	l_5	l_6
20	39	43	29	35	29.0	21.5	7.5	2.0	5
22	42	47	31	37	29.0	21.5	7.5	2.0	5
25	42	50	34	40	30.5	23.0	7.5	2.0	5
28	47	51	37	43	34.0	23.0	7.5	2.0	5
30	54	60	39	45	34.0	26.5	7.5	2.0	5
35	57	63	44	50	36.0	28.5	7.5	2.0	5
38	60	65	49	56	39.0	30,0	9.0	2.0	6
40	60	70	51	58	39.0	30.0	9.0	2.0	6
43	65	70	54	61	39.0	30.0	9.0	2.0	6
45	70	75	56	60	39.0	30.0	9.0	2.0	6
50	75	79	62	70	40.0	30,5	9.0	2,5	6
60	87	91	72	80	49.0	38.0	11.0	2,5	6
90	124	130	105	115	59.0	45.0	14.0	3.0	7

BT-ARP / BT-ARPs - Dimension in millimeter

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