EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

MA390 / MA391

Mechanical Seals | Mechanical seals for pumps | Standard cartridge seals

Features

- Cartridge
- Balanced
- Independent of direction of rotation
- Stationary multiple springs
- Springs and pin located on the atmospheric side

Advantages

- Ultra-thin compact design - the total length including the seal cover is only 33 mm
- Easy installing on the pumps without modifying the stuffing box
- Excellent followability due to no influence from run-out, squareness or vibration of the shaft
- Mounted outside the stuffing box for providing excellent air cooling performance
- Un-wetted springs and knock pins for protecting from lockout by liquid

Operating range

MA390:
Pressure: p = ... 20 bar (290 PSI)
Temperature:
t = -20 °C ...160 °C (-4 °F ... 320 °F) (oil),
0 °C ... 60 °C (32 °F ... 140 °F) (water)
Sliding velocity:
vg = max. 20 m/s (66 ft/s)
Viscosity: 0.5 Pa·s
Solids content: 0.3 %

MA391:
Pressure: p = ... 16 bar (232 PSI)
Temperature:
t = -20 °C ...160 °C (-4 °F ... 320 °F) (oil),
0 °C ... 60 °C (32 °F ... 140 °F) (water)
Sliding velocity: vg = max. 20 m/s (66 ft/s)
Viscosity: 3 Pa·s
Solids content: 10 %

Materials

Seal face (MA390): High density carbon graphite
Seal face (MA391): Silicon carbide (Q1)
Seat (MA390/391): Silicon carbide (Q1)
Metal parts: CrNiMo steel (G)
Secondary seals: FKM (V)

Standards and approvals

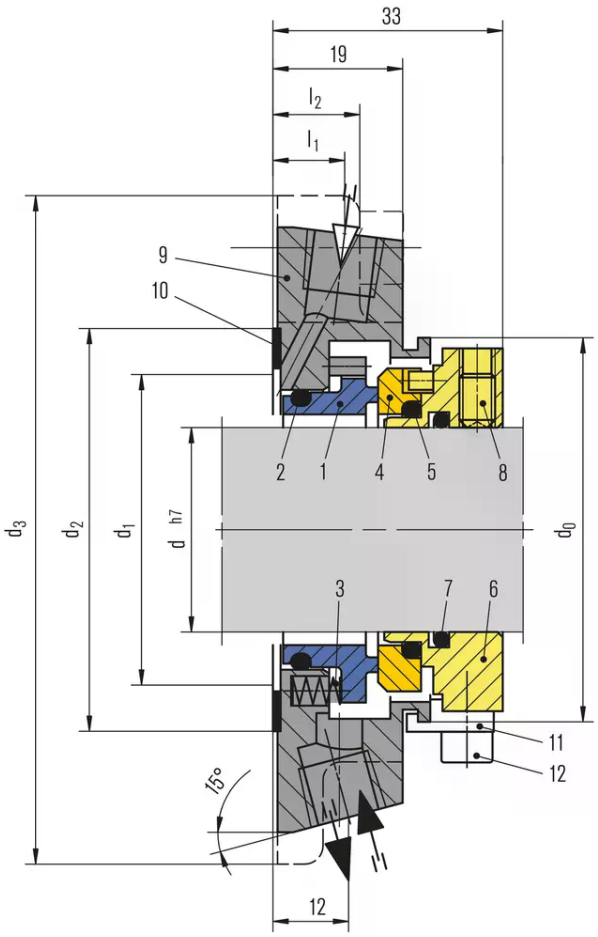
- EN 12756
- ISO 3096

Recommended applications

- Universally applicable
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Pulp and paper industry
- Water and waste water technology
- Food and beverage industry
- Centrifugal pumps
- Eccentric screw pumps
- Process pumps

eagleburgmann.com
info@eagleburgmann.com

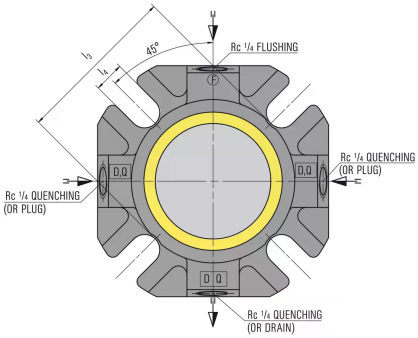
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



Item	Description
1	Seal face
2, 5, 7	O-Ring
3	Spring
4	Seat
6	Drive collar
8	Set screw
9	Seal cover
10	Gasket
11	Assembly fixture
12	HSH cap screw

Installation, details, options

Seal cover



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Dimensions

d	d_0	d_1 min.	d_1 max.	d_2	d_3	l_1	l_2	l_3	l_4
20	50	35	46	53	104	12	14	53	12
24	55	40	51	58	104	12	14	58	12
25	55	40	51	58	104	12	14	58	12
29	60	45	56	63	108	12	14	63	12
30	60	45	56	63	108	12	14	63	12
35	65	50	61	68	118	12	12	68	14
39	70	55	66	73	118	10	12	73	14
40	70	55	66	73	118	10	12	73	14
45	75	60	71	78	128	10	12	78	14

Dimensions in millimeter

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