Rely on excellence

MA390 / MA391

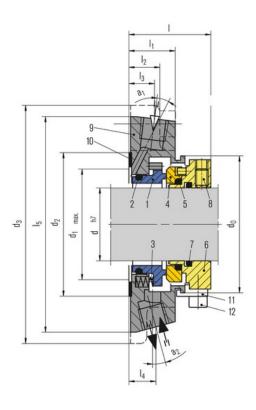
Features

- 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





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

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 %

Recommended applications

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

Materials

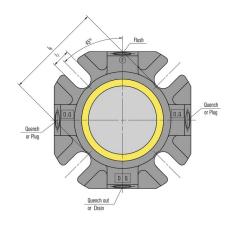
Seal face (MA390): High density carbon graphite Seal face (MA391): Silicon carbide (Q1) Seat (MA390/391): Silicon carbide (Q1)

Metal parts: CrNiMo steel (G) Secondary seals: FKM (V)

Standards and approvals

- EN 12756
- ISO 3096

Installation, Details, Options



Seal cover

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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