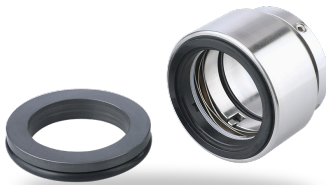


RELY ON EXCELLENCE

eHJ

Mechanical seals | Mechanical seals for pumps | Pusher seals



Features

- For unstepped shafts
- Single seal
- Balanced
- Independent of direction of rotation
- Encapsulated rotating spring

Advantages

- Especially designed for solids containing and highly viscous media
- Springs are protected from the product
- Rugged and reliable design
- No damage of the shaft by dynamically loaded O-Ring
- Universal application
- Variants for sterile operation available
- Increased axial movement
- DiamondFace coating possible
- Spring protection and vibration damping
- Insensitive to temperature changes
- 100 % compatible to HJ9... for 11k

Operating range

Shaft diameter:

$d_1 = 18 \dots 100 \text{ mm} (0.71" \dots 4")$

Pressure:

$p_1^*) = \text{vacuum} \dots 40 \text{ bar} (\text{vacuum} \dots 580 \text{ PSI})$

Temperature:

$t = -50 \text{ °C} \dots +220 \text{ °C} (-58 \text{ °F} \dots +430 \text{ °F})$

Sliding velocity: $v_g = 20 \text{ m/s} (66 \text{ ft/s})$

Axial movement:

$d_1 = 18 \dots 25 \text{ mm}: \pm 0,5 \text{ mm}$

$d_1 = 28 \dots 55 \text{ mm}: \pm 0,8 \text{ mm}$

$d_1 = 60 \dots 100 \text{ mm}: \pm 1,0 \text{ mm}$

* An integral stationary seat lock is not needed within the permissible low pressure range. For prolonged operation under vacuum it is necessary to arrange for quenching on the atmospheric side.

Materials

Seal face: Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B), Silicon carbide (eSiC-Q7)
 Seat G6: Silicon carbide (eSiC-Q7)
 Secondary seals: E, EL, V, V16, K, KL, P
 Springs: CrNiMo steel (G)
 Face housing: CrNiMo steel (G)
 Driver: Duplex (G1)

Standards and approvals

- EN 12756

Notes

Variant for sterile applications available. Please inquire.

Recommended applications

eHJ

- Water and waste water technology
- Drinking water
- Chemical industry
- Oil and Gas
- Petrochemical industry
- Refining technology
- Pulp and paper industry
- Power plant technology
- Mining industry
- Metal production and processing
- Special applications (Cement, ...)
- Shipping Industry

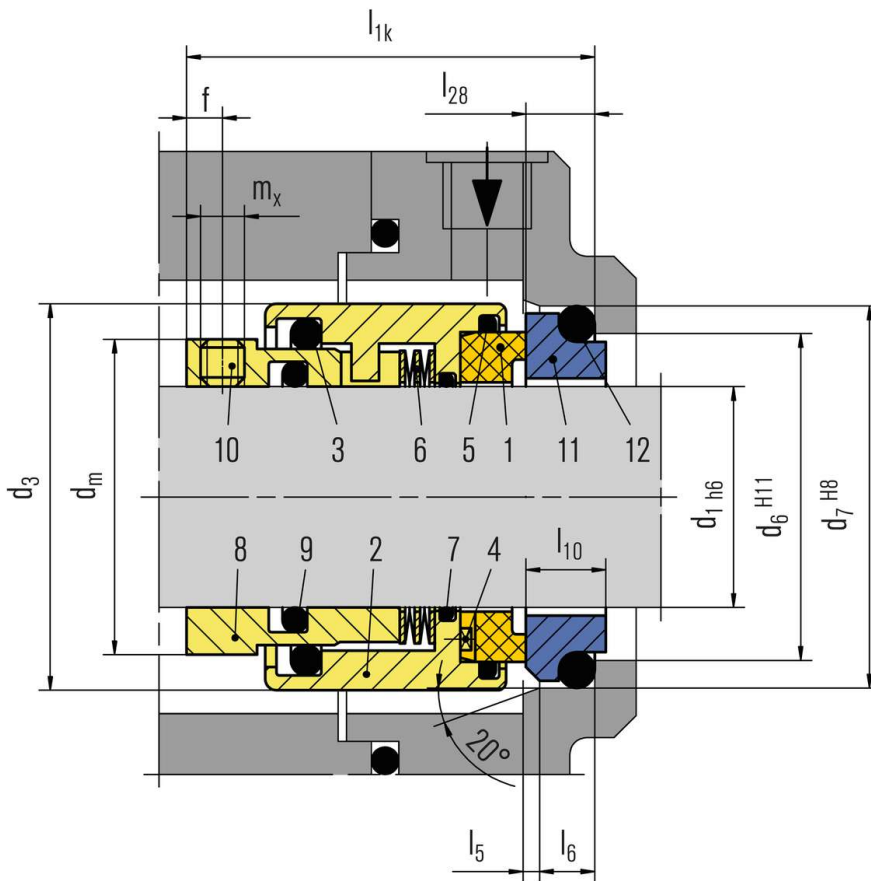
eSHJ

- Food and beverage industry
- Pharmaceutical industry

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications, however, means 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. This is subject to change.

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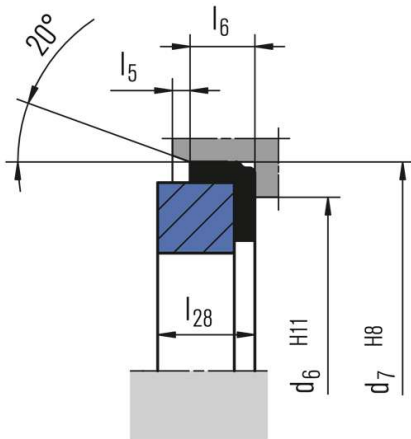
| Item | Description |
|----------------|--------------|
| 1 | Seal face |
| 2 | Face housing |
| 3, 5, 7, 9, 12 | O-Ring |
| 4 | Square pin |
| 6 | Spring |
| 8 | Driver |
| 10 | Set screw |
| 11 | Seat |

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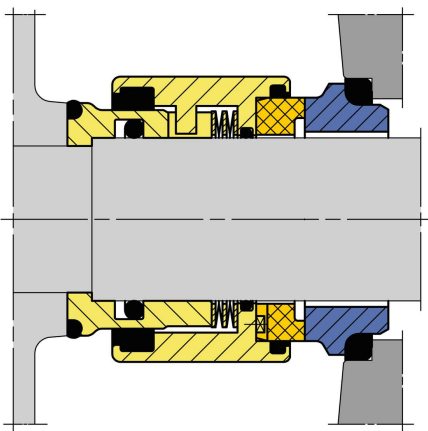
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Seat alternatives



G60 (EN 12756)

Product variants



eSHJ

Variant for sterile applications.
Please inquire.

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Dimensions

| d ₁ | d ₃ | d ₆ | d ₇ | d _m | l _{1K} | l ₅ | l ₆ | l ₁₀ | l ₂₈ | f | m _x |
|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|-----------------|-----|----------------|
| 18 | 32 | 27 | 33 | 26 | 37.5 | 2 | 5 | 8.5 | 7.5 | 2.8 | M4 |
| 20 | 34 | 29 | 35 | 28 | 37.5 | 2 | 5 | 8.5 | 7.5 | 2.8 | M4 |
| 22 | 36 | 31 | 37 | 30 | 37.5 | 2 | 5 | 8.5 | 7.5 | 2.8 | M4 |
| 24 | 38 | 33 | 39 | 32.5 | 40 | 2 | 5 | 8.5 | 7.5 | 3.3 | M5 |
| 25 | 39 | 34 | 40 | 33.5 | 40 | 2 | 5 | 8.5 | 7.5 | 3.3 | M5 |
| 28 | 42 | 37 | 43 | 36.5 | 42.5 | 2 | 5 | 8.5 | 7.5 | 3.3 | M5 |
| 30 | 44 | 39 | 45 | 38.5 | 42.5 | 2 | 5 | 8.5 | 7.5 | 3.3 | M5 |
| 32 | 47 | 42 | 48 | 40.5 | 42.5 | 2 | 5 | 8.5 | 7.5 | 3.3 | M5 |
| 33 | 47 | 42 | 48 | 41.5 | 42.5 | 2 | 5 | 8.5 | 7.5 | 3.3 | M5 |
| 35 | 49 | 44 | 50 | 43.5 | 42.5 | 2 | 5 | 8.5 | 7.5 | 3.3 | M5 |
| 38 | 54 | 49 | 56 | 47.5 | 45 | 2 | 6 | 10 | 9 | 3.3 | M5 |
| 40 | 56 | 51 | 58 | 49.5 | 45 | 2 | 6 | 10 | 9 | 3.3 | M5 |
| 43 | 59 | 54 | 61 | 52.5 | 45 | 2 | 6 | 10 | 9 | 3.3 | M5 |
| 45 | 61 | 56 | 63 | 54.5 | 45 | 2 | 6 | 10 | 9 | 3.3 | M5 |
| 48 | 64 | 59 | 66 | 57.5 | 45 | 2 | 6 | 10 | 9 | 3.3 | M5 |
| 50 | 66 | 62 | 70 | 59.5 | 47.5 | 2.5 | 6 | 10.5 | 9.5 | 3.8 | M6 |
| 53 | 69 | 65 | 73 | 62.5 | 47.5 | 2.5 | 6 | 12 | 11 | 3.8 | M6 |
| 55 | 71 | 67 | 75 | 64.5 | 47.5 | 2.5 | 6 | 12 | 11 | 3.8 | M6 |
| 60 | 80 | 72 | 80 | 70.5 | 52.5 | 2.5 | 6 | 12 | 11 | 3.8 | M6 |
| 65 | 85 | 77 | 85 | 75.5 | 52.5 | 2.5 | 6 | 12 | 11 | 3.8 | M6 |
| 70 | 90 | 83 | 92 | 84 | 60 | 2.5 | 7 | 12.5 | 11.3 | 5 | M8 |
| 75 | 99 | 88 | 97 | 89 | 60 | 2.5 | 7 | 12.5 | 11.3 | 5 | M8 |
| 80 | 104 | 95 | 105 | 94 | 60 | 3 | 7 | 13 | 12 | 5 | M8 |
| 85 | 109 | 100 | 110 | 99 | 60 | 3 | 7 | 15 | 14 | 5 | M8 |
| 90 | 114 | 105 | 115 | 104 | 65 | 3 | 7 | 15 | 14 | 5 | M8 |
| 95 | 119 | 110 | 120 | 109 | 65 | 3 | 7 | 15 | 14 | 5 | M8 |
| 100 | 124 | 115 | 125 | 114 | 65 | 3 | 7 | 15 | 14 | 5 | M8 |

eHJ Dimensions in millimeter

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