

EagleBurgmann®

a member of **EKK** and **FREUDENBERG**

RELY ON EXCELLENCE

eHJ Mechanical Seals Robust. Reliable. Safe.

The new standard



EN 12756

Fully compatible with the HJ series (L_{1K})

Sterile

eSHJ version available

Technology Excellence

The revised eHJ series from EagleBurgmann is the new standard for balanced component seals. Universally applicable and with outstanding properties in solids containing and highly viscous media.

Good reasons for more performance

With eight major improvements, the new eHJ series is better than ever before. We offer our customers the decisive added value in terms of performance, durability and availability.

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- 1 Standard installation dimension according to EN 12756 (L_{TK})
 - 2 High performance face material eSiC-Q7 in standard
 - 3 Solid seal ring inserted and easy to replace
 - 4 Performance PTFE O-ring for spring protection and vibration damping
 - 5 Robust square pin enables full-surface torque transmission
 - 6 Advanced axial mobility of up to ± 1 mm
 - 7 DiamondFace technology available as option
 - 8 Sterile variant eSHJ for use in hygiene applications with molded parts

Typical eHJ operating ranges



Water and waste water technology



Drinking water



Chemical industry



Pulp and paper industry



Petrochemical industry



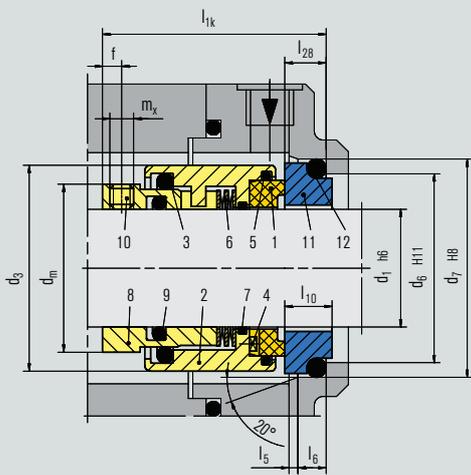
Metals production and processing



Special applications (e.g. cement)

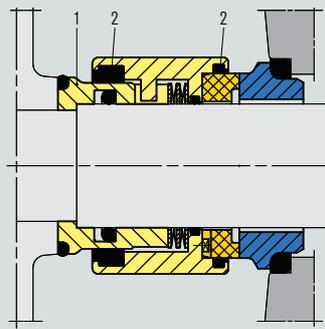


Shipbuilding



eHJ

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



Variant eSHJ

- | |
|---|
| 1 Sterile driving element adapted to impeller |
| 2 Molded parts |

Features

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

Operating range

- Shaft diameter: $d_1 = 18 \dots 100$ mm (0.71" ... 4")
- Pressure: $p_1^*) = \text{vacuum} \dots 40$ bar (vacuum ... 580 PSI)
- Temperature: $t = -50^\circ\text{C} \dots +220^\circ\text{C}$ (-58°F ... +430°F)
- Sliding velocity: $v_g = 20$ m/s (66 ft/s)
- Axial movement:
 $d_1 = 18 \dots 25$ mm: ± 0.5 mm
 $d_1 = 28 \dots 55$ mm: ± 0.8 mm
 $d_1 = 60 \dots 100$ mm: ± 1.0 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), optional Q1 for hygiene applications
- Seat: G6 Silicon carbide (eSiC-Q7), G16 Silicon carbide (Q1) optional with anti-twist protection
- Secondary seals: EPDM (E), FKM (V), FFKM (K)
- Springs: CrNiMo steel (G)
- Seal face housing: CrNiMo steel (G)
- Driving element: Duplex (G1)

Standards and approvals

EN 12756

Various material approvals available (depending on type and material combinations - please inquire)

- WRAS
- FDA
- 3A
- KTW/UBA
- ACS
- W270
- USP-Class VI



Sustainability Board

EagleBurgmann continuously minimizes the impact of its own production processes (footprint) on the environment. At the same time, we improve sustainability for our customers (handprint) with innovative and reliable products. Our eHJ and eSHJ mechanical seals specifically excel in the following criteria:



Energy

- Minimized friction and energy consumption due to high-performance face material



Material

- Optimized use of materials through extensive standardization and variant compatibility
- Up to 50 % longer operating periods possible with high-performance face material



Waste

- Waste avoidance through innovative product design and longer operating periods due to consistently high-quality materials



Water

- Leakage reduction through improved sliding properties and self-cleaning

Typical eSHJ operating ranges



Mining industry



Power plant technology



Food processing industry



Pharmaceutical industry



Refining technology



Oil and gas industry



Beverages industry

EagleBurgmann – at the leading edge of industrial sealing technology

Our products are used wherever safety and reliability count: in the industries of oil & gas, refineries, petrochemicals, chemicals, pharmaceuticals, food, energy, water, mining, paper, aviation and aerospace and many more. Over 6,000 employees contribute their ideas, solutions and dedication every day to ensure that customers around the globe can rely on our seals. With our modular TotalSealCare Service, we emphasize our strong customer orientation and offer custom-tailored services for every need.

Wherever you need us

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