

EAGLEBURGMANN ESPEY GMBH

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Tier: 3 - Type Approved, unit certification not required

Product: Bulkhead Seal

Model: Bulkhead Shaft Seal Espey WDK-BHS

Intended Service:

Watertight shaft seal for rotating shafts penetrating bulkheads.
(Not for "A" class division transitions).

Description:

Bulkhead shaft seal, consisting of a radially split housing made from stainless steel material with segmented sealing elements of carbon "PTFE" compound and circumferential spring for:

Shaft diameter range from Ø 40 mm to Ø 800 mm,

Operating pressure: 3 bar eff.,

Shaft sliding velocity: 40 m/s,

Radial play: 5 mm (max.) and

Angular misalignment of 2° (max.).

Rating:

Verified leakage rate:

Shaft diameter up to 100 mm: 0.195 ltr./min. (As tested value).

Shaft diameter up to 320 mm: 0.885 ltr./min. (As tested value).

Shaft diameter up to 800 mm: 2.385 ltr./min. (Calculated value).

For further details and specific operating parameters the unit manufacturer is to be contacted.

Service Restriction:

- Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
- The sealing arrangement is to be mounted only in bulkheads located in-between of dry compartments, whereby the application and location of the sealing devices remain to be reviewed for each particular on-board installation on basis of local premises and permissible leakage rate.

Comments:

- Mounting bolts are to be threaded into the bulkhead plating from one side; through bolts are not to be used. The ESPEY WDK-BHS bulkhead seals are to be fitted by duly qualified personnel in accordance with the manufacturer's established and recommended procedure. The original unit is marked with the manufacturer's trade mark, order, position and sequential number.
- The manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

Drawing No. Drawing ESPEY-WDK-BHS 01, Dimension Sheet- Bulkhead Seal- Drawing ESPEY-WDK-BHS 01,

Revision: -, Pages: -

Drawing No. EBES_Techn_Info_Bulkhead_Seal_WDK-BHS_2013_DE-EN,

EBES_Techn_Info_Bulkhead_Seal_WDK-BHS_2013_DE-EN, Revision: -, Pages: -

Drawing No. Operating-Maintenance-Instruction_Espey-WDK-BHS_e-Rev,

EBES_Techn_Info_Bulkhead_Seal_WDK-BHS_2013_DE-EN, Revision: -, Pages: -

Drawing No. WDK-BHS_Catalogue2012_en_03, WDK-BHS_Catalogue2012_en_03, Revision: -, Pages: -

Drawing No. d 100 Cover Sheet Leakage Rates HN2294452, ABS Certificate_ d 100 Cover Sheet Leakage Rates HN2294452, Revision: -, Pages: -

Drawing No. d 100 Measured Leakage Rates HN2294452, BHS-Type-Testing- d 100 Measured Leakage Rates

HN2294452, Revision: -, Pages: -

Drawing No. d 320 Cover Sheet Leakage Rates HN2316164, ABS Certificate- d 320 Cover Sheet Leakage Rates

HN2316164, Revision: -, Pages: -

Drawing No. d 320 Measured Leakage Rates HN2316164, BHS-Type-Testing- d 320 Measured Leakage Rates

HN2316164, Revision: -, Pages: -

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Drawing No. d 320 Measured Leakage Rates HN2316164 ABS-RINA, BHS-Type-Testing- d 320 Measured Leakage Rates HN2316164 ABS-RINA, Revision: -, Pages: -

Terms of Validity:

This Product Design Assessment (PDA) Certificate 18-HG1750511-PDA, dated 07/Jun/2018 remains valid until 06/Jun/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

2018 Steel Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 3-2-9/1.3, 4-6-2/9.7.1.

2018 Offshore Support Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-1-1/3.3, 4-3-2/11.5.

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA