



Certificate number: 80919/A0 BV

File number: .

Product code: 2161H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

BOSS PASLANMAZ HIDROLİK BAĞLANTI ELEMANLARI SAN. VE TIC. LTD. STI.

ISTANBUL - Türkiye

for the type of product

MECHANICAL JOINTS - COMPRESSION COUPLINGS - TYPICAL COMPRESSION TYPE

BOSS Tube Fittings - DIN 2353 & ISO 8434-1

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships
Bureau Veritas Rules for the Classification of Naval Ships

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 23 Jun 2031

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 23 Jun 2026,

Gurcan Yilmaz

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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This certificate consists of 4 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

BOSS Tube Fittings - DIN 2353 & ISO 8434-1

1.1 - Ratings

Model	Size (mm)	Design pressure (bar)
BPNM1	Ø 6 to 42	250 to 500
BPNM2	Ø 6 to 38	420 to 630
BPONM1	Ø 6 to 42	250 to 500
BPONM2	Ø 6 to 38	420 to 630
BPNBM1	Ø 6 to 42	250 to 500
BPNBM2	Ø 6 to 38	420 to 630
BPKRM1	Ø 6 to 42	250 to 500
BPKRM2	Ø 6 to 38	420 to 630
BPDM1	Ø 6 to 42	250 to 500
BPDM2	Ø 6 to 38	420 to 630
BPDNM1	Ø 6 to 42	250 to 500
BPDNM2	Ø 6 to 38	420 to 630
BPDMT1	Ø 6 to 42	250 to 500
BPDMT2	Ø 6 to 38	420 to 630
BPTM1	Ø 6 to 42	250 to 500
BPTM2	Ø 6 to 38	420 to 630
BPYBTM1	Ø 6 to 42	250 to 500
BPYBTM2	Ø 6 to 38	420 to 630
BPKM1	Ø 6 to 42	250 to 500
BPKM2	Ø 6 to 38	420 to 630
BPPM1	Ø 6 to 42	250 to 500
BPPM2	Ø 6 to 38	420 to 630
BPHNJ	Ø 6 to 42	250 to 500
BPHDJE	Ø 6 to 42	250 to 500
BPHDJT	Ø 6 to 42	250 to 500
BPHTJE	Ø 6 to 42	250 to 500

Design Standard: DIN 2353, ISO 8434.

Temperature range (°C): - 20 / + 200.

1.2 - Material

Part	Material
Body	Stainless steel X6CrNiMoTi17-12-2/1.4571 or X2CrNiMo17-12-2/ 1.4404 (EN 10088-3)
Nut	
Cutting ring	
Sealing ring	FPM, NBR, and PTFE

When other choices of materials are used per manufacturer's recommendations, the BV agreement is to be obtained.

2. DOCUMENTS AND DRAWINGS

- Manual of Assembly, operating and installation instructions Rev. 0 dated 28/10/2021.
- Price & Technical Catalogue dated 2025
- Technical Catalogue UNF Fitting dated january 2025

No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.

3. TEST REPORTS

- 3.1 - Burst test reports N° BS02404-001 to BS02404-067 dated March 2024.
- 3.2 - Vibration and impulse test reports.
 - Test reports N° 2023180810 dated 18/08/2023.
 - Test reports N° 2023180827 and 2023180828 dated 18/08/2023.
 - Test reports N° 2023180844 to 2023180874 dated 18/08/2023.
 - Test reports N° 2023310896 dated 31/08/2023.
- 3.3 - Tightness and repeated assembly test reports N° BS2602205-01 and BS2602205-02 dated 22/05/2026.
- 3.4 - Fire test not performed.

4. APPLICATION / LIMITATION

- 4.1 - May be used on board for services of class I (OD ≤ 60.3 mm), class II (OD ≤ 60.3 mm), & class III: Systems

Flammable fluids (flash point ≤ 60°C)	
Cargo oil lines (1), crude oil washing lines (1), vent lines (3)	–
Inert gas	
Water seal / scrubber effluent lines	–
Main lines (1) (2), distribution lines (1)	–
Flammable fluids (flash point > 60°C)	
Cargo oil lines (1)	–
Fuel oil (2)(3), lubricating oil (2)(3), hydraulic oil (2)(3), thermal oil lines (2)(3)	–
Sea water	
Bilge lines (4), non-permanent water fire extinguishing systems (3)	–
Permanent water filled fire extinguishing systems (3), ballast system (4), cooling water system	–
Tank cleaning services, non-essential systems	+
Fresh water	
Cooling water system (4), condensate return (4)	–
Non-essential systems	+
Sanitary/Drains/Scuppers	
Deck drains (internal) (5), sanitary drains	+
Scuppers and discharge (overboard)	+
Sounding and venting	
Water tanks/dry spaces, Oil tanks (flash point > 60°C) (2) (3)	+
Miscellaneous	
Starting/control air (4), CO ₂ system	–
Service air (non-essential), brine, steam	+

Note 1: +: Application is allowed; –: Application is not allowed.

(1) Fire endurance test is to be applied when mechanical joints are installed in pump rooms and open decks.

(2) Specific requirements for slip-on joint. Application allowed for compression coupling and pipe unions.

(3) Approved fire-resistant types except in cases where such mechanical joints are installed on open decks and not used for fuel oil lines.

(4) Fire endurance test is to be applied when mechanical joints are installed inside machinery spaces of category A.

(5) Only above bulkhead deck of passenger ships and freeboard deck of cargo ships.

4.2 - In all cases, the associated pipes are to be suitable supported and anchored. The joints are to be at any time accessible, excepting inside tanks where permitted by the Bureau Veritas Rules.

4.3 - The mechanical joints are to be installed according to the manufacturer's instructions and Society's Rule requirements.

4.4 - The wall thickness and the material of the tubes are to be in accordance with the applicable Society's Rules.

4.5 - The use of metallic materials is restricted according to Bureau Veritas Rules NR 467, Pt C, Ch 1, Sec 10, Table 5 and corresponding requirement in NR 483.

4.6 - The sealing/packing material is to be compatible with the fluid to be conveyed and the maximum working temperature.

4.7 - Tapered threaded end fittings are not to be used in engine rooms, nor in any place containing an ignition source unless otherwise suitably screened at the Society's Surveyor satisfaction.

5. PRODUCTION SURVEY REQUIREMENTS

5.1 - The products are to be supplied by **BOSS PASLANMAZ HIDROLİK BAGLANTI ELEMANLARI SAN. VE TIC. LTD. STI.** in compliance with the type and the requirements described in this certificate.

5.2 - This type of product certificate is within the category HBV of Bureau Veritas Rule Note NR 320 and as such does not require a Bureau Veritas product certificate.

5.3 - **BOSS PASLANMAZ HIDROLİK BAGLANTI ELEMANLARI SAN. VE TIC. LTD. STI.** has to make the necessary arrangements to have its work recognized by Bureau Veritas in compliance with the requirements of NR 320 for HBV products.

5.4 - For information, **BOSS PASLANMAZ HIDROLİK BAGLANTI ELEMANLARI SAN. VE TIC. LTD. STI.** has declared to Bureau Veritas the following production site:

BOSS PASLANMAZ HIDROLİK BAGLANTI ELEMANLARI SAN. VE TIC. LTD. STI.:

EVLIYA CELEBI MAH. FEDAI SK. NO.15/1

TUZLA

ISTANBUL

Türkiye

6. MARKING OF PRODUCT

The mechanical joints shall be marked clearly and indelibly with at least:

- Manufacturer's name or logo
- Type designation
- Design pressure
- Size

7. OTHERS

It is **BOSS PASLANMAZ HIDROLİK BAGLANTI ELEMANLARI SAN. VE TIC. LTD. STI.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

***** END OF CERTIFICATE *****