



TÜRK LOYDU

TYPE APPROVAL CERTIFICATE

This is to certify that the
The Pipe Couplings, Bite and Compression Type

Manufacturer : **BOSS PASLANMAZ HİDROLİK BAĞLANTI ELEMANLARI SANAYİ VE TİCARET LİMİTED ŞİRKETİ**

Address : **Evlia Celebi, Mahallesi, Fedai Sk. No. 15/1 34944 Tuzla, İstanbul, Türkiye**

Product Type : **BPH- L and S Series**

Reference Rule : **TL Rules, Part E, Chapter 103 - Metallic Materials, Special Materials for Naval Ships, 01.01.2022**
TL Rules, Part E, Chapter 107 - Naval Ship Technology, Ship Operation Installations and Auxiliary System, 01.01.2022
TL Rules, Part A, Chapter 2, Material, 01.07.2024
TL Rules, Part B, Chapter 4, Machinery, 01.07.2024
Test Requirements For Mechanical Components and Equipment, 01.01.2022

Subject to the conditions referred to in the following pages, this certificate is valid until **15.04.2031**

Surveyor: **Sezer Mahir TUĞCU**

Issued at **İSTANBUL** on **25.04.2026**



This document is electronically signed and does not require a manual signature

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Emrah SÖĞÜTÇÜ
New Building Division Manager
TÜRK LOYDU

Expire Date of Previous Certificate: -

This certificate is subject to terms and conditions described below:

Any significant change in design or construction may render this Certificate invalid. Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. This certificate is not valid for products without marking above mentioned. The manufacturer should notify TÜRK LOYDU of any modifications or changes to equipment in order to obtain valid certificate. This certificate shows that tested specimens as representative of the product complies of the TÜRK LOYDU rules, and relevant international instruments that apply to it.

Product	: The Pipe Couplings, Bite and Compression Type
Type of Product	: BPH- L and S Series
Product Description	: Configuration name/ Symbol Mechanical joints Stainless L & S type Metric Nipples BPNM1 & BPNM2 Stainless L type Metric Reducer Adapters BPNM1 Stainless S type Metric Reducer Adapters BPNM2 Stainless BSP - Metric L type Adapters BPNBM1 Stainless BSP - Metric S type Adapters BPNBM2 Stainless Metric L type Tube end reducers BPKRM1 Stainless Metric S type Tube end reducers BPKRM2 Stainless Metric Elbows BPDM1 & BPDM2 Stainless NPT - Metric L type Elbows BPDNM1 Stainless NPT - Metric S type Elbows BPDNM2 Stainless metric L & S type swivel elbows BPDMT1 & BPDMT2 Stainless Metric Tee Adapters BPTM1 & BPTM2 Stainless Metric Adjustable Run Tee Adapters BPYBTM1 & BPYBTM2 Stainless Metric L & S type weld bulkhead couplings BPKM1 & BPKM2 Stainless Metric L & S type bulkhead couplings BPPM1 & BPPM2 Parts of Mechanical joints (body) UNF adapters BPHNJ UNF male elbow BPHDJE UNF male elbow with swivel nut BPHDJT UNF male TEE BPHTJE
Approval No / Date	: PAE-EPAS/023534/25-0891/VA, 07.01.2026
Material Grade	: Body/ Nut/ Cutting ring/ Sealing ring: Stainless steel X6CrNiMoTi17-12-2/ 1.4571 or X2CrNiMo17-12-2/ 1.4404 (EN 10088-3)/ FPM, NBR, and PTFE
Performed Tests	: - Quality Management System Audit - Visual Inspection - Controls according to approved drawings - Material tests reports reviewed - Tightness test - Vibration (fatigue test) - Pressure pulsation test - Burst test - Pull out test - Fire test according to ISO: 19921:2005 - Repeated assembly test - Review of Calibration Certificates - Documentation: * Boss Stainless Steel Fluid Connectors Technical Catalogue - - * BS02404-001 - BS02404-105 Burst test report no. BS02404-001 to BS02404-105- 2024-04-25 * BS02311-101 - BS02311-157 Tightness test and repeated assembly test reports - 2024-04-25 * 2023150901 - 2023150924 EUROLAB Fire resistance test reports - 2023-09-15 * 2023150929 - 2023150960 EUROLAB Fire resistance test reports - 2023-09-15 * 2023150945 EUROLAB Fire resistance test report - 2023-09-15 * 2023021091 - 2023310896 Vibration and pressure impulse test report - 2023-08-31 * Boss Stainless Steel Fluid Connectors Technical Catalogue - - * Assembly sketch - UNF 37° FLARE FITTING SYSTEM ACC. TO ISO 8434-2 were found satisfactory.
Test Place	: BOSS PASLANMAZ HİDROLİK BAĞLANTI ELEMANLARI SANAYİ VE TİCARET LİMİTED ŞİRKETİ, İSTANBUL
Last Inspection Date	: 15.04.2026
Application/Limitation	: 1-- For use at elevated temperatures the maximum allowable working pressure shall be reduced as per Test Requirements. For Mechanical Components And

Equipment Section 2 [Table 2.12].

2-- The layout, marking and installation of the couplings are to be comply with TL Rules Chapter 4, Section 16.D item 3.

3-- The following limitations are to be observed for Mechanical joints of types BPKM1, BPKM2, BPPM1 & BPPM2:

- Bulkhead and Deck pipe penetrations: Screwed bulkhead fittings are not approved through tank walls, watertight decks, and bulkheads. For application through fire divisions a separate type approval is required.

- Straight Bulkhead weld fittings are approved through tank walls, watertight decks and bulkheads provided that all relevant requirements from SOLAS II-2/9.3.1 are met.

4-- Threaded connections where pressure-tight joints are made on the threads with parallel or tapered threads shall not be used for piping systems conveying toxic or flammable media or services where fatigue, sever erosion or crevice corrosion is expected to occur. For other applications threaded connections with pressure-tight joints on threads may be used for outside diameters:

-- Threaded joints with tapered thread shall be allowed for class I systems only when the outside diameter is not more than 33.7mm

-- Threaded joints with parallel thread shall be allowed only for class III systems.

5-- The manufacturer shall draw up assembly instructions for the use of the connectors. This instruction shall be in compliance with ISO 8434-1, Clause 12. The relevant instruction shall be delivered to the purchaser.

6-- The approval is only valid when the couplings are assembled with tubing of correct temper and tolerances as recommended by the manufacturer.

7-- Couplings covered by this certificate shall not be installed in systems subject to pressure below atmospheric or vacuum conditions.

Others

: 1. Maximum working temperatures for non-metallic materials:

Material Temperature range

NBR -35°C to +100°C

FPM -20°C to +200°C

PFTE -55°C to +200°C

2. Max. working press.: 160 bar up to 630 bar

3. Sizes: Tube O.D. 6mm to 42mm

Approval Conditions : -
