



**TYPE APPROVAL CERTIFICATE**  
No. MAC163525XT

**This is to certify that the product identified below satisfies the requirements of the standard quoted under "Reference standard"**

<i>Description</i>	<b>MECHANICAL JOINTS FOR PIPES</b>
<i>Type</i>	<b>Bite Type Compression Couplings – L and S Series</b>
<i>Applicant</i>	<b>BOSS PASLANMAZ HIDROLİK BAGLANTI ELEMANLARI SAN. VE TIC. LTD.STİ. EVLIYA ÇELEBI MAH., FEDAI SOK., No.15/1 Tuzla TÜRKİYE</b>
<i>Manufacturer</i>	<b>BOSS PASLANMAZ HIDROLİK BAGLANTI ELEMANLARI</b>
<i>Place of manufacture</i>	<b>SAN. VE TIC. LTD.STİ. EVLIYA ÇELEBI MAH., FEDAI SOK., No.15/1 Tuzla TÜRKİYE</b>
<i>Reference standards</i>	<b>Part C, Chapter 1, Section 10 of RINA Rules</b>
<i>Reference documents</i>	<b>RINA Type Approval System</b>

*Issued in* RINA Turkey Marine on **October 10, 2025**. *This Certificate is valid until* **October 9, 2030**



  
**Emrah Fahri Gursoy**

**RINA Services S.p.A.**

This certificate consists of this page and 1 enclosure



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**Bite Type Compression Couplings – L and S Series**

**Product description**

Bite type compression pipe couplings are manufactured from stainless steel, with body, nut and cutting ring made of X6CrNiMoTi17-12-2 (1.4571) or X2CrNiMo17-12-2 (1.4404), in accordance with the applicable material standards.

Configuration name	Symbol
<i>Mechanical joints</i>	
Stainless L&S type Metric Nipples	BPNM1 & BPNM2
Stainless L type Metric Reducer Adapters	BPONM1
Stainless S type Metric Reducer Adapters	BPONM2
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

**Reference documents**

Document number	Title	Date
-	Boss Stainless Steel Fluid Connectors Technical Catalogue	-
BS02404-001 to BS02404-067	Burst test report	2024-04-25
BS02311-138 to BS02311-150	Tightness test and repeated assembly test reports	2024-04-25
2023150901 to 2023150924	EUROLAB Fire resistance test reports	2023-09-15
2086.25.9842	Pull out test report	2025-10-10
2023310844 to 2023310896	Vibration and pressure impulse test report	2023-08-31

**Technical Characteristics**

**Maximum allowable working pressure**

Product line	Tube size, O.D [mm]	Maximum working pressure [bar]
L	6 - 10	500
	12 - 18	400
	22 - 42	250
S	6 - 10	630
	12 - 16	630
	20 - 38	420

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**Fields of application**

Couplings covered by this certificate are acceptable for use in Class I, II and III piping systems, in accordance with the applicable requirements of the governing rules and subject to the limitations defined therein. The couplings are acceptable for the systems listed in Table 16 and in accordance with paragraph 2.4.5 of Part C, Chapter 1, Section 10 of the RINA Rules, where fire resistance is required.

Systems		Compression Couplings	Classification of pipe system
Flammable fluids (Flash point $\leq 60^{\circ}\text{C}$ )			
1	Cargo oil lines (1)	+	dry
2	Crude oil washing lines (1)	+	dry
3	Vent lines (2)	+	dry
Inert gas			
4	Water seal effluent lines	+	wet
5	Scrubber effluent lines	+	wet
6	Main lines (1)	+	dry
7	Distribution lines (1)	+	dry
Flammable fluids (flash point $>60^{\circ}\text{C}$ )			
8	Cargo oil lines (1)	+	dry
9	Fuel oil lines (2)	+	wet
10	Lubricating oil lines (2)	+	wet
11	Hydraulic oil (2)	+	wet
12	Thermal oil (2)	+	wet
Fresh water			
13	Cooling water system (3)	+	wet
14	Condensate return (3)	+	wet
15	Non-essential systems	+	dry, dry/wet, wet
Sanitary/drains/scuppers			
16.	Deck drains (internal) (4)	+	dry
17.	Sanitary drains	+	dry
18.	Scuppers and discharge (overboard)	+	dry

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Systems	Compression Couplings	Classification of pipe system	
<b>Sounding/vent</b>			
19	Water tanks/Dry spaces	+	dry, wet
20	Oil tanks (f.p >60°C) (2)	+	dry
<b>Miscellaneous</b>			
21	Starting/Control air (3)	+	dry
22	Service air (non-essential)	+	dry
23	Brine	+	wet
24	CO <sub>2</sub> system (outside protected space)	-	dry
25	CO <sub>2</sub> system (inside protected space)	-	dry
26	Steam	+	wet
<b>Abbreviations:</b> + Application is allowed - Application is not allowed If mechanical joints include any components which readily deteriorate in case of fire the following footnotes are to be observed: (1) Not permitted when mechanical joints are installed in pump rooms and open decks. (2) Not permitted except in cases where such mechanical joints are installed on open decks, as defined in SOLAS II-2/Reg. 9.2.3.3.2.2(10) and not used for fuel oil lines. (3) Not permitted when mechanical joints are installed inside machinery spaces of category A. (4) Permitted only above bulkhead deck of passenger ships and freeboard deck of cargo ships.			

Materials chosen for the specific system shall be suitable for the intended medium and environmental conditions. Couplings covered by this certificate shall not be used in seawater systems.

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

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.

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

- Sleeve threaded joints with tapered threaded shall not be allowed for class I systems for pipes with outside diameter of more than 33.7 mm, pipes inside tanks
- Sleeve threaded joints with tapered threaded shall not be allowed for class II and III systems for pipes with outside diameter more than 60.3 mm, pipes inside tanks
- Sleeve threaded joints with parallel threaded shall not be allowed for class III systems for systems for pipes with outside diameter more than 60.3 mm, pipes inside tanks

### Acceptance Conditions

The couplings are to be installed in locations where leakage would not create a hazard by way of damage to electrical systems or otherwise create a hazard to the vessel, equipment or personnel onboard.

The acceptance of the a.m. products on board ship classed with RINA is subject to the satisfactory outcome of testing as per RINA Rules applicable.

The installation on board is to be carried out in accordance with the Manufacturer's instructions.

**RINA Turkey Marine October 10,  
2025**