

Amendments to the “Rules for the Type Approval of Mechanical Joints for Pipes”

Effective from 1/1/2025

List of the amendments:

| Table amended | Reason |
|----------------------|--|
| Tab 1 | to introduce IACS UR P2.11 (Rev.6 - Oct 2023) “Rules for piping design, construction and testing - Type Approval of Mechanical Joints” |

1 PREMISE

In the Rules for the Classification of Ships, use is foreseen of mechanical joints type approved by TASNEEF.

The expression “mechanical joints” means devices, as described in Pt C, Ch 1, Sec 10, [2.4.5] of the Rules for the classification of ships, intended for direct connection of pipe lengths other than by welding, flanges or threaded joints.

2 FIELD OF APPLICATION

These Rules apply to mechanical joints, where their use is foreseen by Pt C, Ch 1, Sec 10, [2.4.5] of the Rules for the Classification of Ships.

These requirements apply to any mechanical joint submitted for approval from 1 January 2008 and to any existing mechanical joint from the date of the first renewal of approval after 1 January 2008.

3 DOCUMENTATION

The request for type approval is to be submitted to TASNEEF by the Manufacturer or by the Applicant, if authorised by the Manufacturer, and is to include:

- the Manufacturer;
- the designation of the product;
- the product quality assurance system implemented;
- a complete description of the product;
- typical sectional drawings with all dimensions necessary for evaluation of joint design;
- complete specification of materials used for all components of the assembly;
- the proposed test procedure as required in [5];
- the field of application with indication of:

- maximum design pressures (pressure and vacuum);
 - maximum and minimum design temperatures;
 - conveyed media;
 - intended services;
 - maximum axial, lateral and angular deviation allowed by the Manufacturer;
 - installation details;
- i) documentation relevant to previous tests and approvals, if any.

4 MATERIALS

The materials used for mechanical joints are to be compatible with the piping material and internal and external media.

The Manufacturer is to submit evidence to substantiate that all components are adequately resistant to working the media at the design pressure and temperature specified.

5 TESTS

5.1 General

The type tests specified in Tab 1 are to be carried out.

TASNEEF reserves the right both to require more severe testing conditions and additional tests, if considered necessary to ensure the intended reliability, and also to accept alternative testing in accordance with national or international standards where applicable to the intended use and application. Unless otherwise specified, the water or oil test fluid is to be used.

Table 1

| Tests | Type of mechanical joint | | | References |
|-------------------------------|---------------------------------------|------------------------------------|-----------|--|
| | Compression couplings and pipe unions | Slip-on Joints | | |
| | | Grip type and Machine grooved type | Slip type | |
| 1 Tightness test | + | + | + | [5.5.1] |
| 2 Vibration (fatigue) test | + | + | - | [5.5.2] |
| 3 Pressure pulsation test (1) | + | + | - | [5.5.3] |
| 4 Burst pressure test | + | + | + | [5.5.4] |
| 5 Pull-out test | + | + | - | [5.5.5] |
| 6 Fire endurance test | + (3) | + | + | [5.5.6] if required in Pt C, Ch 1, Sec 10, [2.4.5] of the Rules for the Classification of Ships |
| 7 Vacuum test | + (3) | + | + | [5.5.7] for suction lines only |
| 8 Repeated assembly test | + (2) | + | - | [5.5.8] |

Abbreviations: + test is required
- test is not required

Footnotes: 1) for use in [all Class I and II systems and](#) those [Class III](#) systems where pressure pulsation other than water hammer is expected.
2) Except [permanent joint type \(e.g. press type and swage type\)](#).
3) except joints with metal-to-metal tightening surfaces

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