

# TÜRK LOYDU



## **Rules for the Approval of Manufacturers of Hose Assemblies and Compensators January 2022**

This latest edition incorporates all rule changes. The latest revisions are shown with a vertical line. The section title is framed if the section is revised completely. Changes after the publication of the rule are written in red colour.

Unless otherwise specified, these Rules apply to ships for which the date of contract for construction as defined in TL- PR 29 is on or after 1<sup>st</sup> of January 2022. New rules or amendments entering into force after the date of contract for construction are to be applied if required by those rules. See Rule Change Notices on TL website for details.

"General Terms and Conditions" of the respective latest edition will be applicable (see Rules for Classification and Surveys).

If there is a difference between the rules in English and in Turkish, the rule in English is to be considered as valid. This publication is available in print and electronic pdf version.

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**RULES FOR THE APPROVAL OF MANUFACTURERS OF  
HOSE ASSEMBLIES AND COMPENSATORS**

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**A. Scope**

In these Rules, the conditions for the approval by Türk Loydu (TL) of manufacturers of hose assemblies and compensators made of non-metallic and metallic materials are laid down.

Moreover, the rules apply also for the testing and final approval of these products in accordance with the rules of TL.

**B. Definitions**

For the purpose of these rules, the following definitions apply:

**1. Quality assurance standards**

Recognized standards for the establishment of quality assurance systems are ISO 9000 or another equivalent quality system recognized by TL.

**2. Quality system**

The organizational structure, responsibilities, procedures, processes and means for implementing the quality assurance measures.

**3. Quality plan**

A document which lays down in suitable form the quality-related procedures and the means employed as well as the sequence of activities applicable to produce a hose assembly / compensator.

**4. Audit (Quality Audit)**

A systematic and independent examination to determine whether quality activities and related results comply with planned arrangements.

**5. Assessment**

Evaluation of the results of the audit for conformity with the requirements.

**C. Application for Approval**

1. Application for the approval of manufacturers of hose assemblies / compensators is to be submitted to TL Head Office in written.

2. Application for approval is to be accompanied with the following documents:

- Indication of the hose/compensator manufacturer and of the types of the products used

- Indication of the manufacturers of the fittings used and drawings of the same together with the corresponding part lists and material specifications
- Work instructions for the manufacturing of the hose assemblies / compensators
- Quality manual
- Quality plan (description of plans for testing, test equipment, personnel and manufacturing process).

#### **D. Quality Manual**

The quality manual must contain at least the following:

- A statement of the management concerning the quality policy and objectives
- A statement of management regarding the obligation of the personnel to comply with the quality policy, instructions and procedures stated in the quality manual
- The effective date of the statement and the signature of the management
- Organization plan of the manufacturer
- Responsibilities, qualifications and authorities of the personnel who perform work affecting the quality assurance
- The structure of the quality system
- Description of the quality procedures and instructions
- References to instructions and procedures not contained in the quality manual
- Supervision and auditing of the departments of the manufacturer (internal audits) in relation with quality assurance.

#### **E. Quality System**

The manufacturer shall prove that he has established a quality system in accordance with a recognized quality assurance standard and is maintaining it.

#### **F. Requirements to be Met by the Manufacturer and His Products**

##### **1. Manufacturing facilities and personnel**

##### **1.1 The manufacturer of hose assemblies/compensators shall:**

- have facilities for proper manufacturing and testing of the hose assemblies / compensators

- have skilled personnel for the manufacturing and testing of the hose assemblies / compensators.

**1.2** Recognized manufacturers of hose assemblies / compensators who are authorized to carry out final tests, shall appoint a responsible works expert who, due to his responsibilities, is authorized to issue the test certificates.

Name and number of stamp of the works expert is to be indicated to TL.

## **2. Hose assemblies / compensators**

Hose assemblies / compensators are to be approved by TL with regard to their suitability for the intended application. For this purpose a type test in accordance with TL's rule "Test Requirements for Mechanical Components and Equipment" is required.

## **3. Manufacturing process**

TL is to be informed of the procedures for manufacturing hose assemblies / compensators.

## **G. Initial Audits**

TL shall carry out an initial audit covering the inspection of the quality system and the production process of the manufacturer, aim of which is to ensure that the requirements of these rules are fulfilled.

## **H. Granting of Approval**

**1.** If assessment of the audit attests that the requirements of these rules are satisfied, TL shall grant approval of the manufacturer for the production of hose assemblies / compensators.

**2.** Approval for testing and end inspection of hose assemblies / compensators shall be granted for manufacturers whose quality system completely fulfils these rules.

## **I. Obligations of the Manufacturer**

**1.** Having been granted approval, the manufacturer has:

- to carry out all the tests required by TL Rules
- to ensure the effectiveness of the quality assurance system by means of suitable internal monitoring.

In case of deficiencies, the manufacturer shall take corrective measures on his own initiative.

**2.** The manufacturer shall of his own accord advice TL of any changes to his quality system or processes in so far as these affect the required quality of the hose assemblies / compensators.

3. Where a customer complains about hose assemblies / compensators tested by the manufacturer on his own responsibility in accordance with these rules, the manufacturer shall inform TL of the complaint and the reason for the complain.

4. The manufacturer of hose assemblies / compensators shall give the surveyors of TL every assistance necessary for the performance of their duty.

He shall also allow them access to all the relevant areas of his work and shall, to the extend necessary, allow them to have a sight of the documents relating to quality assurance.

#### **J. Obligation of TL**

TL undertakes to treat confidentially all the information and documents entrusted to TL by the manufacturer.

#### **K. Maintenance of Approval**

##### **1. Period of validity**

Approval remains valid for a period of 3 years. During this period the effectiveness of the quality system and the manufacturing process is to be verified by yearly follow-up audits.

##### **2. Extension of validity**

Approval may be extended for period of 3 years. Application for extension shall be made at least 3 months prior to expiry of the recognition. Prior to any extension an inspection of the manufacturing works shall be carried out.

##### **3. Follow-up audits**

Follow-up audits are carried out to verify continued compliance with the conditions for recognition and for extending its validity.

TL reserves the right to carry out follow-up audits at shorter intervals in the case that the manufacturer has to make changes to his system or processes or the type of the product or the mode of the manufacturing process necessitate this.

##### **4. Suspension or revocation of approval**

TL reserves the right to suspend the approval in case of deficiencies in the quality system or the process which affect the required product quality.

If these deficiencies cannot be eliminated within a specified period, the approval may be revoked.



**L. Test Certificates**

1. For manufacturers whose approval includes the authorization to perform the final inspection of their products, the manufacturer's works expert issues a test certificate for each delivery of hose assemblies which has to be tested in accordance with TL rules. The test certificate shall contain the following:

- TL certificate no.
- Customer and order no.
- Commission no. of the manufacturer
- Hose / compensator manufacturer
- Fittings manufacturer
- Number and type of hose assemblies / compensators to be delivered
- Nominal diameters, working pressures and test pressures
- Materials

2. In addition, all test certificates shall contain the following:

“ This is to certify that the hose assemblies described above have been tested in accordance with TL rules and meet the specified requirements”.

\_\_\_\_\_  
(Place, Date)

\_\_\_\_\_  
(Stamp and Signature of TL Surveyor)

- This is to confirm that the manufacturer has been approved in accordance with the “Rules for the Approval of Manufacturers of Hose Assemblies and Compensators” and is kept under regular auditing by TL.

Approval Certificate no: TL.....

\_\_\_\_\_  
(Place, Date)

\_\_\_\_\_  
(Stamp and Signature of TL Surveyor)

**M. Marking of Products**

All products shall be so marked that they can be identified and can be reliably associated to the corresponding test certificates.

The marking of the hose assemblies / compensators is to be agreed with TL for each range of production.