



Inland navigation — Water fire-fighting system — Couplings of fire hoses — General technical requirements

Navigation intérieure — Systèmes d'extinction d'incendie au moyen d'eau — Raccordement des tuyaux — Exigences techniques générales

ISO (International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

The main task of ISO technical committees is to prepare International Standards. In exceptional circumstances a technical committee may propose the publication of a technical report of one of the following types :

- type 1, when the necessary support within the technical committee cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development requiring wider exposure;
- type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example).

Technical reports are accepted for publication directly by ISO Council. Technical reports types 1 and 2 are subject to review within three years of publication, to decide if they can be transformed into International Standards. Technical reports type 3 do not necessarily have to be reviewed until the data they provide is considered no longer valid or useful.

ISO/TR 5987 was prepared by Technical Committee ISO/TC 8, *Shipbuilding and marine structures*.

The reasons which led to the decision to publish this document in the form of a technical report type 1 are explained in the Introduction.

0 Introduction

It was initially intended to publish an International Standard on this subject: ISO/DIS 5987 was submitted for combined voting to the members of Technical Committee ISO/TC 8 and to all ISO member bodies, in December 1978. This draft did not gain the necessary support for publication as an International Standard.

Sub-committee ISO/TC 8/SC 7, *Inland navigation*, during its meeting held in Leningrad in September 1982, studied the member bodies' comments and found that it would be impossible to achieve substantial support in view of the existence of conflicting national requirements.

It was requested, however, that the document be published provisionally in the form of a technical report for the benefit of those member bodies who wish to refer to the result of the work.

UDC 629.122 : 614.843.3

Ref. No. ISO/TR 5987-1984 (E)

Descriptors: shipbuilding, inland navigation, fire equipment, fire hoses, couplings, classification, specifications, dimensions, acceptance testing, marking, packing.

© International Organization for Standardization, 1984 •

Printed in Switzerland



Documents

Document Sharing Hub

Price based on 3 pages

1 Scope and field of application

This Technical Report specifies the types and general technical requirements for coupling heads for hose couplings designed for fire-fighting, and used for deck washing on vessels operating in inland waterways.

2 Classification

Depending on the functions of hose couplings, the following coupling heads are used:

- female sleeve,
- male sleeve,
- hose,
- flange,
- adapter,

and corresponding end caps for coupling heads.

The nominal diameters of coupling heads shall be the following:

50, 65 and 75 (for some heads).

The nominal pressures p_y of coupling heads shall be the following:

1; 1,6 MPa.

3 Technical Requirements

3.1 Coupling heads should be manufactured in accordance with the requirements of national standards and this Technical Report.

3.2 The design of coupling heads shall ensure:

- manual coupling of the heads without using tools, by engagement of the lug in a special groove, equal to 1,0 to 1,5 times the lug width;
- tightness of the coupling;
- stability of the coupling under pressure in the hose lines.

3.3 The choice of material for the manufacture of coupling heads should take into account the intended liquid, working pressure, temperature, and mechanical and anticorrosive properties needed, in accordance with the requirements of national standards.

3.4 External and internal surfaces of coupling heads should be smooth, without cavities, cracks, impurities and other defects which might reduce the strength or change the appearance.

Sharp edges of external surfaces should be smoothed.

3.5 The tolerances on dimensions of the machined surfaces of heads shall be in accordance with national standards.

3.6 The main dimensions and admissible variations of pipe cylindrical threads shall be in accordance with national standards.

The threads shall be of full profile, without cavities, dents, cuts or stripped threads.

No local strips, crumbling and crushing of threads of total length over 10 % of the threaded length, or those exceeding 1,5 times the turn length, are permitted.

3.7 Steel parts of coupling heads shall have a protective coating in accordance with the requirements of national standards.

3.8 Coupling heads shall have rubber sealing rings for which the choice of material shall be made in accordance with 3.3.