



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 1306:1996

ICS 47.020.30
47.060

**INLAND NAVIGATION VESSELS -
CONNECTIONS FOR THE DISCHARGE OF
WASTE WATER**

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Údarás um Chaighdeán Náisiúnta na hÉireann

DECLARATION

OF

SPECIFICATION

ENTITLED

INLAND NAVIGATION VESSELS -

CONNECTIONS FOR THE DISCHARGE OF WASTE WATER

AS

THE IRISH STANDARD SPECIFICATION FOR

INLAND NAVIGATION VESSELS -

CONNECTIONS FOR THE DISCHARGE OF WASTE WATER

Forfás in exercise of the power conferred by section 20 (3) of the Industrial Research and Standards Act, 1961 (No. 20 of 1961) and the Industrial Development Act, 1993 (No. 19 of 1993), and with the consent of the Minister for Enterprise and Employment, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Inland navigation vessels - Connections for the discharge of waste water) Declaration, 1996.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Inland navigation vessels - Connections for the discharge of waste water. The Schedule comprises the text of EN 1306 : 1996.

(2) The said standard specification may be cited as Irish Standard/EN 1306:1996 or as I.S./EN 1306:1996.

EUROPEAN STANDARD

EN 1306

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1996

ICS 47.020.30; 47.060

Descriptors: inland navigation, ships, boats, pipe fittings, water removal, sewage, threaded fittings, pipe adapters, dimensions, tests, marking

English version

Inland navigation vessels - Connections for the discharge of waste water

Bateaux de navigation intérieure - Raccords d'évacuation d'eaux usées

Fahrzeuge der Binnenschifffahrt - Anschlüsse für die Abgabe von Abwasser

This European Standard was approved by CEN on 1995-12-06. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been drawn up by the Technical Committee CEN/TC 15 "Inland navigation vessels" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 1996, and conflicting national standards shall be withdrawn at the latest by July 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

This European Standard was drawn up in compliance with ISO 7608 and national standards as well as national and international regulations like those of MARPOL.

In ISO 7608, a flange for discharge connections referring to MARPOL is standardized.

NOTE: MARPOL (Maritime Pollution Convention)
International Convention for Prevention of Pollution from Ships from 1973 and the Protocol from 1978 relating to Intervention.

Introduction

This European Standard has been developed to specify uniform connections for the discharge of waste water.

The connection consists of a quick-release coupling ensuring an easy and safe fitting and a safe discharge of waste water. By limiting the use of this coupling to waste water, a confusion with connections for other liquids will be avoided.

This connection for the discharge for waste water in inland navigation vessels is designed for suction or pressure.

1 Scope

This European Standard specifies design, dimensions, technical requirements and testing of connections for the discharge of waste water from inland navigation vessels.

The Standard specifies:

- a connection of a design that is common on inland navigation vessels consisting of a threaded pipe and a quick release coupling.
- a connection for vessels with flange ISO 7608-B1 consisting of an adapter with a matching flange with welded threaded pipe and quick release coupling.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ENV 10220	Seamless and welded steel tubes – Dimensions and masses per unit length
EN 24018	Hexagon head screws – Product grade C (ISO 4018 : 1988)
EN 24034	Hexagon nuts – Product grade C (ISO 4034 : 1986)
EURONORM 156	Shipbuilding steels – Standard and higher tensile grades
ISO 228-1	Pipe threads where pressure-tight joints are not made on the threads – Part 1: Dimensions, tolerances and designation
ISO 2768-1	General tolerances – Part 1: Tolerances for linear and angular dimensions without individual tolerance indications
ISO 7608 : 1985	Shipbuilding – Inland navigation – Couplings for disposal of oily mixture and sewage water
DIN 28450-2 : 1989	PN 10 couplings for road and rail tankers, in sizes DN 50, DN 80 and DN 100 - Male couplings (type VK)

DIN 28450-3 : 1989	PN 10 couplings for road and rail tankers, in sizes DN 50, DN 80 and DN 100 - Female couplings (type MK)
DIN 28450-4 : 1989	PN 10 couplings for road and rail tankers, in sizes DN 50, DN 80 and DN 100 - Female dust couplings (type MB)

3 Definitions

For the purposes of this standard, the following definition applies:

waste water: Dirty water from kitchens, dining-rooms, washing-rooms (showers, washing basins), washhouses and faecal waste water.

4 Technical requirements

4.1 General

Dimensions in millimetres

General tolerances : ISO 2768 - c

Requirements are related to design, dimensions and arrangement of connections.

4.2 Design

The position of the connection, dimensions and specifications shall be maintained.

Figure 1 shows the connection from the suction pipe fixed in the vessel to the quick release coupling at the suction hose (R).

Figure 2 shows the connection from the flange ISO 7608-B1 to the quick release coupling at the suction hose (F).

Figure 3 shows the adaptor consisting of flange and threaded connection.

Table 1 specifies the positions of figures 1 to 3.

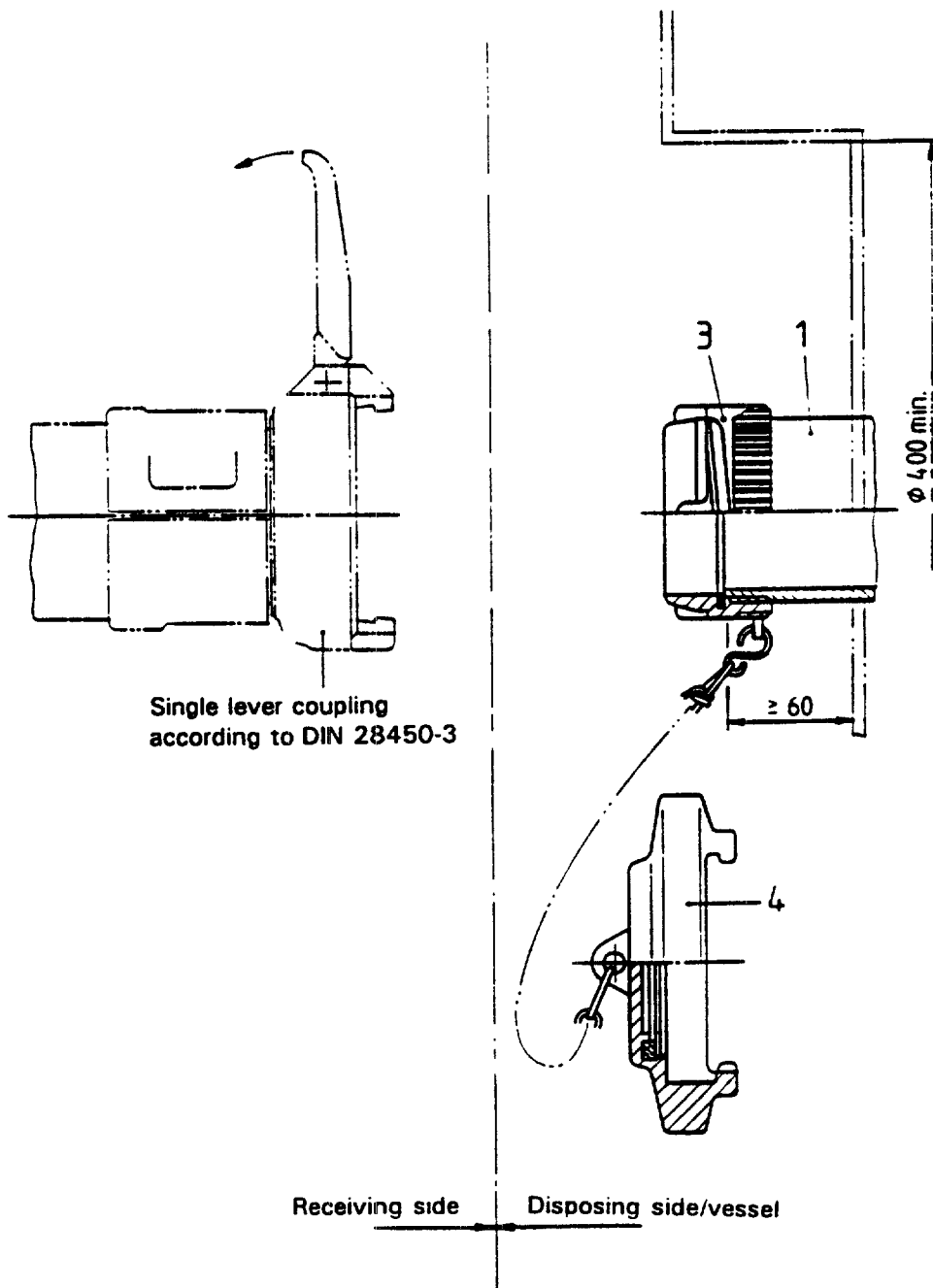


Figure 1: Quick release coupling connection (R)

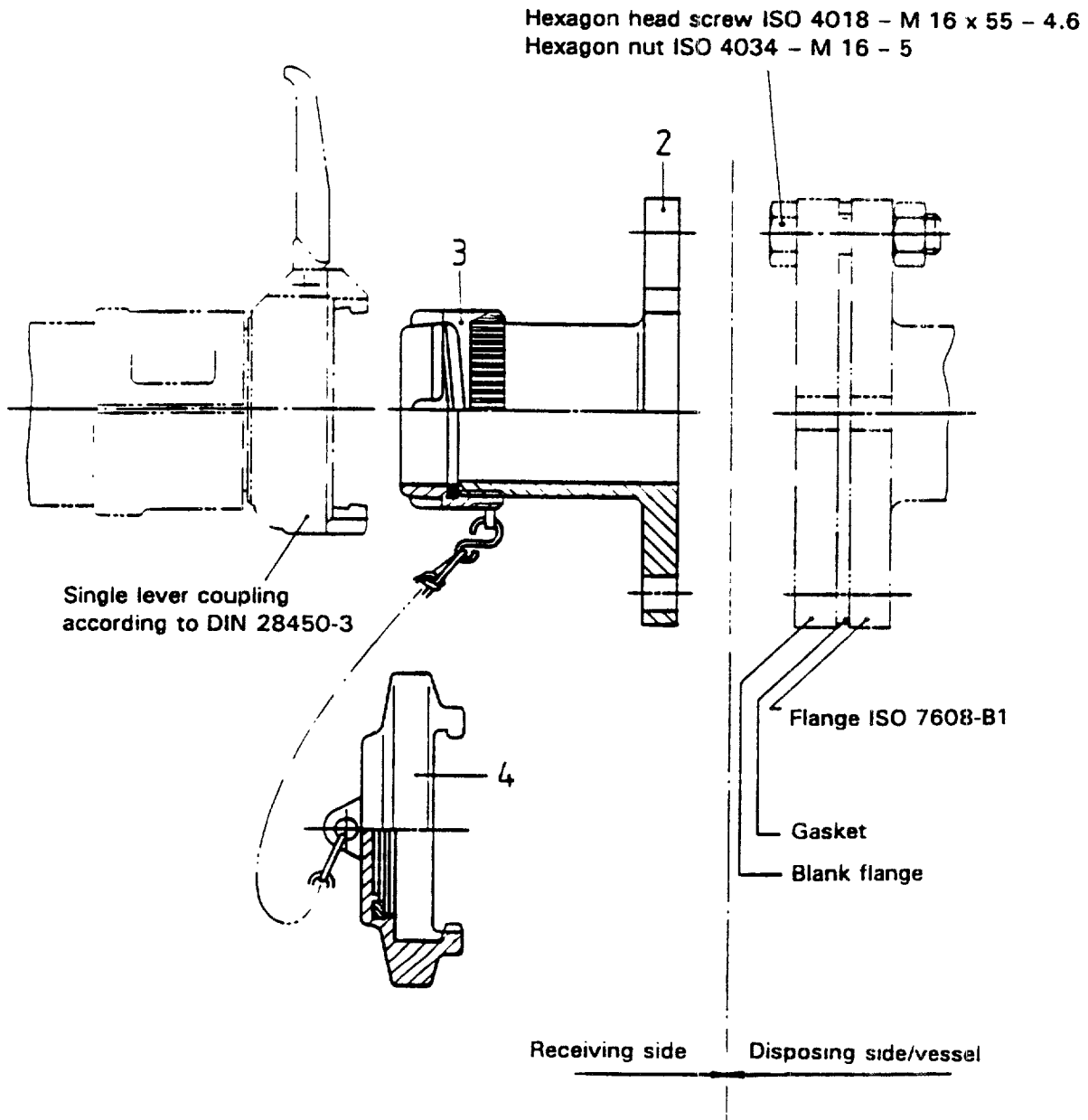


Figure 2: Quick release coupling connection at flange ISO 7608-B1 (F)

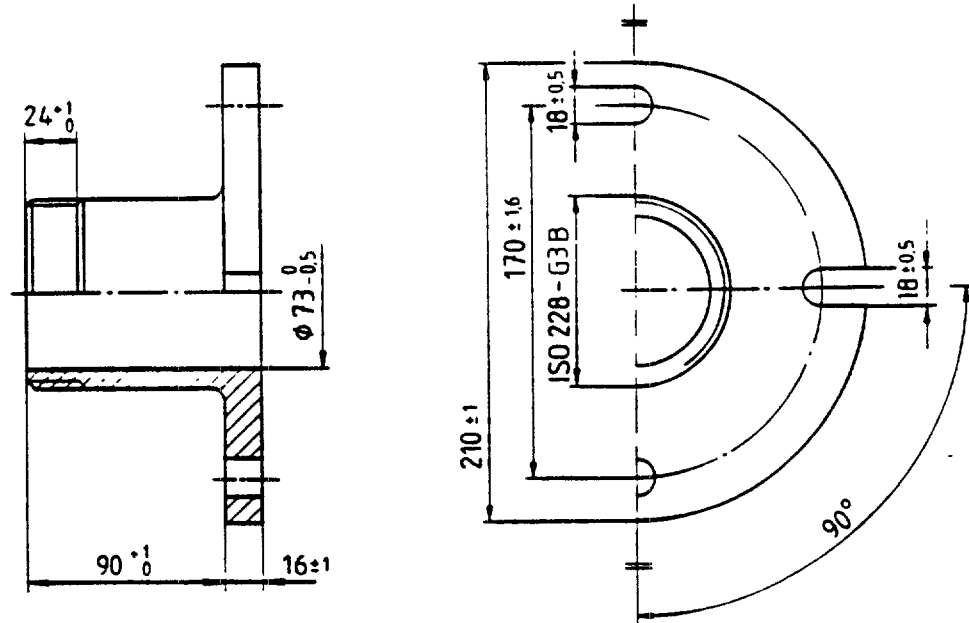


Figure 3: Adaptor, Position 2

Table 1: List of positions for figures 1 to 3

Position No.	Description	Disposing/Receiving side	Note
1	Pipe with threaded connection	Disposing side	see figure 3
2	Adaptor	Receiving side	see figure 3
3	Coupling connection DN 80 with gasket	Figure 1: Disposing side Figure 2: Receiving side	as in DIN 28 450-2
4	Closing cap with chain and S-hook	Figure 1: Disposing side Figure 2 : Receiving side	as in DIN 28 450-4

4.3 Dimensions

The nominal size DN of the quick release coupling is 80 mm.

4.4 Arrangement of connections

4.4.1 There shall be easy access to the coupling, and the arrangement shall allow easy connection taking into account the bending radius of the hose which should be taken as approximately 2 000 mm.

4.4.2 For the manipulation of the quick release coupling, there shall be a minimum radial clearance of 200 mm around and at least 60 mm behind the connection, see figure 1.

4.4.3 The connection shall be installed in a protected position so that no damage can occur in normal use and that it does not unduly obstruct an adjacent walkway.

5 Material

5.1 General

Material not specified shall be left at the manufacturer's discretion.

5.2 Threaded pipe connection and adaptor

Pipe work complying with ENV 10220 and adaptor made of steel according to EURONORM 156 or equivalent material.

5.3 Coupling connection

Copper-zinc-alloy (brass) CuZn39Pb3 F37 or CuZn40Pb2 F37.

5.4 Closing cap

Aluminium-wrought alloy AlMgSi1 F31.

6 Testing

Testing by visual examination and measurement.

7 Designation

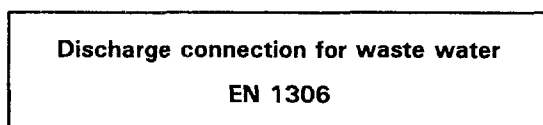
A complete connection of type R according to figure 1 and consisting of threaded pipe connection, coupling connection with gasket and closing cap with chain shall be designated:

Connection EN 1306 – R

8 Marking

The connection as shown in figure 1 or figure 2 shall be durably marked:

- a) by painting of the pipe socket, colour: black
- and
- b) by a label



Characters engraved or printed, fitted adjacent to the connection.

Minimum height of characters 7 mm.

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