

NORSOK STANDARD

COMMON REQUIREMENTS
PIPING AND PLUMBING

H-CR-002
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1 FOREWORD	2
2 SCOPE	2
3 NORMATIVE REFERENCES	2
4 DEFINITIONS AND ABBREVIATIONS	3
4.1 Definitions	3
4.2 Abbreviations	3
5 TECHNICAL REQUIREMENTS	3
5.1 Design conditions	3
5.2 Line sizing	3
5.3 Hot and cold water supply	4
6 SYSTEM REQUIREMENTS	4
6.1 General	4
6.2 Hot water heating system	4
6.3 Potable water system	4
6.4 Sewage	5
6.5 Open drain	5
6.6 Chilled water system	5
6.7 Sea water system	5
6.8 Instrumentation and controls	5
6.9 Piping material	6
7 LAYOUT AND ARRANGEMENT	6
7.1 Pipe routing	6
7.2 Accessibility	7
8 INSTALLATION	7
8.1 Joints	7
8.2 Hangers and support	7
8.3 Piping insulation	7
8.4 Identification of piping	7
8.5 Cleaning and protection	7
8.6 Testing	8
9 EQUIPMENT	8
ANNEX A DATA SHEET (NORMATIVE)	9

1 FOREWORD

NORSOK (The competitive standing of the Norwegian offshore sector) is the industry initiative to add value, reduce cost and lead time and remove unnecessary activities in offshore field developments and operations.

The NORSOK standards are developed by the Norwegian petroleum industry as a part of the NORSOK initiative and are jointly issued by OLF (The Norwegian Oil Industry Association) and TBL (The Federation of Norwegian Engineering Industries). NORSOK standards are administered by NTS (Norwegian Technology Standards Institution).

The purpose of this industry standard is to replace the individual oil company specifications for use in existing and future petroleum industry developments, subject to the individual company's review and application.

The NORSOK standards make extensive references to international standards. Where relevant, the contents of this standard will be used to provide input to the international standardisation process. Subject to implementation into international standards, this NORSOK standard will be withdrawn.

Annex A is normative.

2 SCOPE

This standard identifies the basic requirements for design, fabrication, testing and installation of domestic piping and equipment:

- Hot water heating system.
- Potable water system.
- Domestic water heaters.
- Sewage.
- Open drain.
- Chilled water system.
- Sea water system.

The standard is limited to the part of the systems contained within Living Quarters and other domestic areas.

The sewage system is limited to pipes for drainage of waste water from sanitary equipment, kitchen/laundry equipment and floor gullies.

3 NORMATIVE REFERENCES

BS 5422	Method for specifying Thermal insulating materials on pipes,
BS 5970	Code of practice for Thermal insulation of pipework and equipment.
DIN 2463	Welded austenitic stainless steel tubes; dimensions and
DIN 17455	General purpose welded circular stainless steel tubes, Technical delivery conditions.
DIN 19530	Steel pipes and fittings with slip joint for sewage pipelines, dimensions.

Kommunenenes Sentralforbund	Normalreglementet for sanitæranlegg, tekniske bestemmelser
NS 1758	Copper tubes for capillary soldering.
NS 1759	Capillary solder fittings for copper tubes.
NS 5581	Pipe threads where pressure-tight joints are not made on threads.
SDH	Forskrift nr. 68: Forskrift om vannforsyning og drikkevann mm.
UNS S31600	Austenitic stainless steel (type 316)
UNS S31603	Austenitic stainless steel (type 316L)
NORSOK L-CR-001	Piping and valves
NORSOK L-CR-004	Piping fabrication, installation, flushing and testing
NORSOK M-DP-001	Materials selection

4 DEFINITIONS AND ABBREVIATIONS

4.1 Definitions

Normative references	Shall mean normative in the application of NORSOK standards.
Informative references	Shall mean informative in the application of NORSOK standards.
Shall	Shall is an absolute requirement which shall be followed strictly in order to conform with the standard.
Should	Should is a recommendation. Alternative solutions having the same functionality and quality are acceptable.
May	May indicates a course of action that is permissible within the limits of the standard (a permission).
Can	Can-requirements are conditional and indicates a possibility open to the user of the standard.

All terms and phrases within the scope of this standard shall be regarded as defined in the regulations and international codes and standards referred to in this document.

4.2 Abbreviations

BS	British Standard
DIN	Deutsches Institut für Normung
HVAC	Heating, Ventilation and Air-Conditioning
NS	Norsk Standard (Norwegian Standard)
SDH	Sosial- og helsedepartementet (Department of Health and Social Security)
UNS	Unified Numbering System

5 TECHNICAL REQUIREMENTS

5.1 Design conditions

Hot potable water temperature: +55°C

5.2 Line sizing

All line sizing for potable water, sewage and drain systems shall be in accordance with “Normalreglementet”.