

Potrubia diaľkového (teplovodného) vykurovania Združené jednoduché potrubné systémy pre predizolované bezkanálové rozvody teplej vody Priemyselne vyrábané zostavy oceľových armatúr pre oceľové potrubia s polyuretánovou tepelnou izoláciou a s vonkajším plášťom z polyetylénu

STN EN 488

38 3373

District heating pipes - Bonded single pipe systems for directly buried hot water networks - Factory made steel valve assembly for steel service pipes, polyurethane thermal insulation and a casing of polyethylene

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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English Version

District heating pipes - Bonded single pipe systems for directly buried hot water networks - Factory made steel valve assembly for steel service pipes, polyurethane thermal insulation and a casing of polyethylene

Tuyaux de chauffage urbain - Systèmes bloqués monotubes pour les réseaux d'eau chaude enterrés directement - Assemblages d'appareils de robinetterie manufacturés pour tubes de service en acier, isolation thermique en polyuréthane et tube de protection en polyéthylène Fernwärmerohre - Werkmäßig gedämmte Verbundmantelrohrsysteme für direkt erdverlegte Fernwärmenetze - Vorgedämmte Absperrarmaturen für Stahlmediumrohre mit Polyurethan-Wärmedämmung und Außenmantel aus Polyethylen

This European Standard was approved by CEN on 12 August 2019.

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 CEN-CENELEC Management Centre or to any CEN member.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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EN 488:2019 (E)

European foreword

This document (EN 488:2019) has been prepared by Technical Committee CEN/TC 107 "Prefabricated district heating and district cooling pipe system", the secretariat of which is held by DS.

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 April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 488:2015.

In comparison with the previous edition, the main changes in this new edition of EN 488 are:

- editorial changes to the new structure of standards prepared by the Technical Committee CEN/TC 107.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

EN 488 has also been aligned with EN 448 and other relevant European Standards.

Other standards from CEN/TC 107 are:

- EN 253, District heating pipes Bonded single pipe systems for directly buried hot water networks —
 Factory made pipe assembly of steel service pipe, polyurethane thermal insulation and a casing of
 polyethylene;
- EN 448, District heating pipes Bonded single pipe systems for directly buried hot water networks —
 Factory made fitting assemblies of steel service pipes, polyurethane thermal insulation and a casing of
 polyethylene;
- EN 489-1, District heating pipes Bonded single and twin pipe systems for buried hot water networks Part 1: Joint casing assemblies and thermal insulation for hot water networks in accordance with EN 13941-1;
- EN 13941-1, District heating pipes Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks Part 1: Design;
- EN 13941-2, District heating pipes Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks Part 2: Installation;
- EN 14419, District heating pipes Bonded single and twin pipe systems for directly buried hot water networks Surveillance systems;
- EN 15632 (all parts), District heating pipes Pre-insulated flexible pipe systems;
- EN 15698-1, District heating pipes Bonded twin pipe systems for directly buried hot water networks Part 1: Factory made twin pipe assembly of steel service pipes, polyurethane thermal insulation and one casing of polyethylene;
- EN 15698-2, District heating pipes Bonded twin pipe systems for directly buried hot water networks Part 2: Factory made fitting and valve assemblies of steel service pipes, polyurethane thermal insulation and one casing of polyethylene
- EN 17248, District heating and district cooling pipe systems Terms and definitions.

EN 488:2019 (E)

1 Scope

This document specifies requirements and test methods for factory made thermally insulated bonded valve assemblies for hot water networks in accordance with EN 13941-1, comprising a steel valve, rigid polyurethane foam thermal insulation and a casing of polyethylene.

The valve assembly could also include the following additional elements: measuring wires, spacers and diffusion barriers.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 19, Industrial valves — Marking of metallic valves

EN 253, District heating pipes — Bonded single pipe systems for directly buried hot water networks — Factory made pipe assembly of steel service pipe, polyurethane thermal insulation and a casing of polyethylene

EN 448, District heating pipes — Bonded single pipe systems for directly buried hot water networks — Factory made fitting assemblies of steel service pipes, polyurethane thermal insulation and a casing of polyethylene

EN 736-1, Valves — Terminology — Part 1: Definition of types of valves

EN 10088-1:2014, Stainless steels — Part 1: List of stainless steels

EN 10204, Metallic products — Types of inspection documents

EN 12266-1, Industrial valves — Testing of metallic valves — Part 1: Pressure tests, test procedures and acceptance criteria — Mandatory requirements

EN 13941-1, District heating pipes — Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks — Part 1: Design

EN 13941-2, District heating pipes — Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks — Part 2: Installation

EN 14419, District heating pipes — Bonded single and twin pipe systems for directly buried hot water networks — Surveillance systems

EN 17248, District heating and district cooling pipe systems — Terms and definitions

EN ISO 12944-2, Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 2: Classification of environments (ISO 12944-2)

EN ISO 12944-5, Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 5: Protective paint systems (ISO 12944-5)

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