
Gumene cevi in cevni priključki - S tekstilom ojačene hidravlične cevi - Specifikacija

Rubber hoses and hose assemblies - Textile reinforced hydraulic type - Specification

Gummischläuche und -schlauchleitungen - Hydraulikschläuche mit Textileinlage - Spezifikation

Tuyaux et flexibles en caoutchouc - Type hydraulique avec armature de textile - Spécification

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ICS:

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English Version

**Rubber hoses and hose assemblies - Textile reinforced
hydraulic type - Specification**

Tuyaux et flexibles en caoutchouc - Type hydraulique
avec armature de textile - Spécification

Gummischläuche und -schlauchleitungen -
Hydraulikschläuche mit Textileinlage - Spezifikation

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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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European foreword

This document (prEN 854:2024) has been prepared by Technical Committee CEN/TC 218 “Rubber and plastics hoses and hose assemblies”, the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 854:2015.

This document includes the following significant technical changes with respect to EN 854:2015:

- EN 853, 854, 856 and 857 have been aligned;
- updated normative references;
- Table 7 added;
- Annex A deleted;
- Annex C deleted.

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prEN 854:2024 (E)

1 Scope

This document specifies requirements for three types of textile reinforced rubber hoses and hose assemblies of nominal bore from 5 to 100. The types are defined in Clause 4.

They are suitable for use with:

- hydraulic fluids in accordance with ISO 6743-4 with the exception of HRD R, HFD S and HFD at temperatures ranging from -40 °C to 100 °C;
- water-based fluids at temperatures ranging from -40 °C to +70 °C;
- water at temperature ranging from 0 °C to +70 °C.

The hoses are not suitable for use with castor oil based and ester-based fluids.

The document does not include requirements for end fittings. It is limited to the performance of hoses and hose assemblies.

NOTE Requirements for hydraulic hoses for underground mining are covered in other documents.

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 ISO 1402, *Rubber and plastics hoses and hose assemblies — Hydrostatic testing (ISO 1402)*

EN ISO 4671, *Rubber and plastics hoses and hose assemblies — Methods of measurement of the dimensions of hoses and the lengths of hose assemblies (ISO 4671)*

EN ISO 6803, *Rubber or plastics hoses and hose assemblies — Hydraulic-pressure impulse test without flexing (ISO 6803)*
<https://standards.iteh.ai/catalog/standards/sist/b6f083bf-9e0f-484b-afd9-01276cc5e940/osist-pren-854-2024>

EN ISO 7233, *Rubber and plastics hoses and hose assemblies — Determination of resistance to vacuum (ISO 7233)*

EN ISO 7326:2016, *Rubber and plastics hoses — Assessment of ozone resistance under static conditions (ISO 7326:2016)*

EN ISO 8033:2006, *Rubber and plastics hoses — Determination of adhesion between components (ISO 8033:2006)*

EN ISO 10619-2:2021, *Rubber and plastics hoses and tubing — Measurement of flexibility and stiffness — Part 2: Bending tests at sub-ambient temperatures (ISO 10619-2:2021)*

ISO 1817:2024, *Rubber, vulcanized or thermoplastic — Determination of the effect of liquids*

ISO/TS 20444,¹ *Rubber and plastics hoses — Determination of abrasion resistance of the outer cover*

¹ Under preparation. Stage at the time of preparation: ISO/DTS 20444