



SLOVENSKI STANDARD
oSIST prEN 856:2024

01-december-2024

Gumene cevi in cevni priključki - S spiralnim gumiranim jeklenim kordom ojačene hidravlične cevi - Specifikacija

Rubber hoses and hose assemblies - Rubber-covered spiral wire reinforced hydraulic type - Specification

Gummischläuche und -schlauchleitungen - Hydraulikschläuche mit Drahtspiraleinlage - Spezifikation

Tuyaux et flexibles en caoutchouc - Type hydraulique avec armature hélicoïdale de fils métallique recouverts de caoutchouc - Spécification

Ta slovenski standard je istoveten z: prEN 856

[oSIST prEN 856:2024](https://standards.iteh.org/standards/sist/856/eca-8277-1224-01c-06cc0c3b7c70/osist-pr-en-856-2024)

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ICS:

23.040.70	Gumene cevi in armature	Hoses and hose assemblies
23.100.40	Cevna napeljava in sklopke	Piping and couplings

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English Version

Rubber hoses and hose assemblies - Rubber-covered spiral wire reinforced hydraulic type - Specification

Tuyaux et flexibles en caoutchouc - Type hydraulique avec armature hélicoïdale de fils métallique recouverts de caoutchouc - Spécification

Gummischläuche und -schlauchleitungen - Hydraulikschläuche mit Drahtspiraleinlage - Spezifikation

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 218.

If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European foreword

This document (prEN 856:2024) 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+AC:2019.

This document includes the following significant technical changes with respect to EN 856:2015+AC:2019:

- 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 856:2024 (E)**1 Scope**

This document specifies requirements for four types of rubber-covered spiral wire reinforced hydraulic hoses and hose assemblies of nominal bore from 6 to 51: Types 4SP, 4SH, R13 and R15. They are suitable for use with:

- hydraulic fluids covered in ISO 6743-4 with the exception of HFD R, HFD S and HFD T at temperatures ranging from -40 °C to $+100\text{ °C}$ for types 4SP and 4SH and -40 °C to $+120\text{ °C}$ for types R13 and R15;
- water based fluids at temperatures ranging from -40 °C to 70 °C ;
- water fluids at temperatures ranging from 0 °C to 70 °C .

The hoses are not suitable for use with castor oil based nor ester-based fluids.

This 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 a different document.

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)*

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

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

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*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>

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