



SLOVENSKI STANDARD

oSIST prEN 857:2024

01-december-2024

**Gumene cevi in cevni priključki - Z jeklenim kordom ojačene trdne hidravlične cevi
- Specifikacija**

Rubber hoses and hose assemblies - Wire braid reinforced compact type for hydraulic applications - Specification

Gummischläuche und -schlauchleitungen - Kompakthydraulikschläuche mit Drahtgeflechteinlage - Spezifikation

Tuyaux et flexibles en caoutchouc - Type hydraulique compact avec armature de fils métalliques - Spécification

Ta slovenski standard je istoveten z: **prEN 857**

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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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**EUROPEAN STANDARD
NORME EUROPÉENNE
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**DRAFT
prEN 857**

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ICS 23.100.40

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English Version

**Rubber hoses and hose assemblies - Wire braid reinforced
compact type for hydraulic applications - Specification**

Tuyaux et flexibles en caoutchouc - Type hydraulique
compact avec armature de fils métalliques -
Spécification

Gummischläuche und -schlauchleitungen -
Kompakthydraulikschläuche mit Drahtgeflechteinlage -
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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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 857:2024) 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 857:2015.

This document includes the following significant technical changes with respect to EN 857:2015:

- updated normative references;
- added big sizes on 2SC hose type;
- tolerances for inside diameter in Table 1;
- Table 7 added;
- Annex A deleted;
- Annex C deleted.

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prEN 857:2024 (E)

1 Scope

This document specifies requirements for two types of wire braid reinforced compact hoses and hose assemblies of nominal bore from 6 to 76, types 1SC and 2SC.

They are suitable for use with:

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

The hoses are not suitable for use with castor oil based nor phosphoric 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 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/fe55af69-403a-4884-9f9f-68bb48069ca6/osist-pren-857-2024>

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*

3 Terms and definitions

No terms and definitions are listed in this document.

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