Draft for Public Comment

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BSI Group Headquarters

389 Chiswick High Road London W4 4AL

Tel: +44 (0)20 8996 9000
Fax: +44 (0)20 8996 7400
www.bsigroup.com

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Responsible committee: PRI/66 Rubber and plastics tubing, hoses and hose assemblies

Interested committees:

Title: Draft BS EN 857 BS Rubber hoses and hose assemblies - Wire braid reinforced compact type for hydraulic applications - Specification.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

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Responsible Committee Secretary: Ms Ellena Cullum (BSI)
Direct tel:
E-mail: ellena.cullum@bsigroup.com

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at **https://standardsdevelopment.bsigroup.com/**. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx

1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex **(e.g. 3.1)**	Paragraph/ Figure/Table/Note	**Type of comment**	**Commend (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations on each comment submitted**
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
prEN 857

October 2024

ICS 23.100.40

Will supersede EN 857:2015

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.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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
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Full document details: 24/30493098 DC

Contents

Page

European foreword ... 3
1 Scope ... 4
2 Normative references ... 4
3 Terms and definitions ... 4
4 Types of hoses ... 5
5 Materials and construction ... 5
5.1 Hoses ... 5
5.2 Hose assemblies ... 5
6 Dimensions ... 5
6.1 Diameters and concentricity ... 5
6.2 Length ... 6
6.2.1 Hoses ... 6
6.2.2 Hose assemblies ... 7
7 Requirements ... 7
7.1 Hydrostatic requirements ... 7
7.2 Minimum bend radius ... 8
7.3 Impulse test requirements ... 9
7.4 Leakage of hose assemblies ... 9
7.5 Cold flexibility ... 9
7.6 Adhesion between components ... 10
7.7 Vacuum resistance ... 10
7.8 Abrasion resistance ... 10
7.9 Fluid resistance ... 11
7.9.1 Test pieces ... 11
7.9.2 Oil resistance ... 11
7.9.3 Water based fluid resistance ... 11
7.9.4 Water resistance ... 11
7.10 Ozone resistance ... 11
8 Designation ... 11
9 Frequency of testing ... 11
10 Marking ... 12
10.1 Hoses ... 12
10.2 Hose assemblies ... 12
Annex A (normative) Test frequency for type tests and routine tests ... 13
Bibliography ... 15

Documents
Document Sharing Hub
Full document details: 24/30493098 DC

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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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)*

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

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