

STN	Gumové hadice a hadice s koncovkami. Hadice na hydrauliku s textilnou výstužou. Špecifikácia.	STN EN 854 63 5431
------------	--	--------------------------------------

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

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/15

Obsahuje: EN 854:2015

Oznámením tejto normy sa ruší
STN EN 854 (63 5431) z apríla 2000

121216

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

This European Standard was approved by CEN on 31 January 2015.

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.

This European Standard exists 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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Classification.....	5
4 Materials and construction	5
4.1 Hoses	5
4.2 Hose assemblies.....	5
5 Dimensions.....	5
5.1 Diameters and concentricity.....	5
5.2 Length	6
5.2.1 Hoses	6
5.2.2 Hose assemblies.....	7
6 Requirements	7
6.1 Hydrostatic requirements	7
6.2 Minimum bend radius.....	8
6.3 Impulse test requirements	9
6.4 Leakage of hose assemblies	9
6.5 Cold flexibility	10
6.6 Adhesion between components.....	10
6.7 Vacuum resistance	10
6.8 Abrasion resistance	11
6.9 Fluid resistance.....	11
6.9.1 Test pieces	11
6.9.2 Oil resistance	11
6.9.3 Water-based fluid resistance.....	11
6.9.4 Water resistance	12
6.10 Ozone resistance	12
7 Designation	12
8 Marking	12
8.1 Hoses	12
8.2 Hose assemblies.....	12
Annex A (normative) Procedure for the measurement of abrasion	13
A.1 Apparatus	13
A.2 Method	14
A.3 Test pieces	14
A.4 Condition of test pieces	14
A.5 Procedure	15
A.6 Expression of results	15
A.7 Test report	15
Annex B (normative) Type and routine testing of production hoses	17
Annex C (informative) Production acceptance testing.....	18

Foreword

This document (EN 854:2015) 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 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 October 2015 and conflicting national standards shall be withdrawn at the latest by October 2015.

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

This document supersedes EN 854:1996.

In comparison with EN 854:1996, the following significant changes have been made:

- updated normative references;
- tolerances for inside diameter in Table 1;
- deleted types R6 and R3;
- added Annex A;
- added Annex B;
- added Annex C.

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

1 Scope

This European Standard 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 3.

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

NOTE 1 The hoses are not suitable for use with castor oil based and ester based fluids.

NOTE 2 Hoses and hose assemblies are not be operated outside the limits of this standard.

NOTE 3 Requirements for hydraulic hoses for underground mining are standardized in separate standards.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 1302, *Geometrical Product Specifications (GPS) - Indication of surface texture in technical product documentation (ISO 1302)*

EN ISO 1402:2009, *Rubber and plastics hoses and hose assemblies - Hydrostatic testing (ISO 1402:2009)*

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 6743-4, *Lubricants, industrial oils and related products (class L) - Classification - Part 4: Family H (Hydraulic systems) (ISO 6743-4)*

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, *Rubber and plastics hoses - Assessment of ozone resistance under static conditions (ISO 7326)*

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

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

ISO 1817:2005, *Rubber, vulcanized - Determination of the effect of liquids*

ISO 23529, *Rubber - General procedures for preparing and conditioning test pieces for physical test methods*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN