International Standard



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION●MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ●ORGANISATION INTERNATIONALE DE NORMALISATION

Pipework — Single overlap flexible metal hoses (rubber packing, limited tightness, circular or polygonal section, in protected carbon steel)

Tuyauteries — Tuyaux métalliques flexibles à agrafage simple (joint caoutchouc, étanchéité limitée, section circulaire ou polygonale, en acier non allié protégé) STANDARD PREVIEW

First edition — 1986-12-01

(standards.iteh.ai)

ISO 8447:1986 https://standards.iteh.ai/catalog/standards/sist/0433f89c-fd60-4105-84e7-1c694b1a636b/iso-8447-1986

Descriptors: metal tubes, hoses, lock-seamed metal hoses, specifications, dimensions, designation.

UDC 621.643.34

Ref. No. ISO 8447-1986 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

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International Standard ISO 8447 was prepared by Technical Committee ISO/TC 5, Ferrous metal pipes and metallic fittings. (Standards.iteh.al)

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other international Standard implies its c-fd60-4105-84e7-latest edition, unless otherwise stated.

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1 Scope and field of application

3 Dimensions and performance

This International Standard lays down diameters of single rds/sist Dimensions and performance are shown in the figure and table. overlap flexible metal hoses with rubber packing of limited so-8447-1986 tightness, of circular or polygonal section, in protected carbon steel, and specifies requirements to be verified in accordance with ISO 7658.

This International Standard applies to uncoated flexible metal hoses (without external coating as defined in sub-clause 4.1.10 of ISO 7369) used under low pressure with permissible leakage, at temperatures from $-20\ to\ +60\ ^{\circ}C$.

 $\mathsf{NOTE}-\mathsf{For}$ the specifications and temperature-related requirements for use, see ISO 7657.

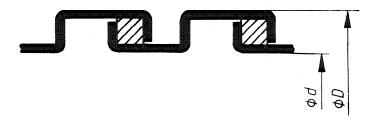
2 References

ISO 6708, Pipe components — Definition of nominal size.

ISO 7369, Pipework — Flexible metal hoses — Vocabulary of general terms.

ISO 7657, Pipework — Stripwound flexible metal hoses — Specifications and temperature-related requirements for use.

ISO 7658, Pipework — Stripwound flexible metal hoses — Testing and verification of characteristics.



Figure

NOTE — The figure is not intended to specify a given manufacturing method nor to define coil dimensions.

4 Test methods

For test methods, see ISO 7658.

5 Designation

A single overlap flexible metal hose that meets the requirements of this International Standard shall be designated as follows:

- a) the four letters: TMFA (Tuyau Métallique Flexible Agrafé Stripwound Flexible Metal Hose);
- b) a reference to this International Standard;
- c) pressure tightness;

- d) nominal size DN;
- e) the type of material and protective covering.

Example:

Designation of a flexible metal hose with single overlap, rubber packing, limited tightness, circular (or polygonal) section of nominal size DN 40, in galvanized steel:

TMFA ISO 8447 - limited tightness, circular (or polygonal) section - DN 40 - galvanized steel

Table

Nominal size ¹⁾	Minimum internal diameter	Maximum outside diameter	Bend radius	Tensile strength	Crush strength
DN	d	D	max.	min.	
	mm	mm	mm	N	N
6	5	8,2	55	110	3 000
8	7	10,2	65	150	3 000
10	9,5	13,5	75	200	3 000
12	12	17	85	25 0	3 000
15	13	Teh STANI	DARI ¹⁰⁰ PRI	300	3 000
20	18	261 7	135	400	3 000
25	23	32 stand	ards. 55eh.a	500	3 000
32	31	395tanu	arus. ₁₉₆ en.a	650	3 000
40	37	49	210	800	3 000
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100	97	111	395	2 200	3 000
125	120	136	530	2 700	3 000
150	144	163	· 585	3 250	3 000
200	192	216	780	4 500	3 000
250	245	266	975	5 500	3 000
300	295	317	1 165	6 600	3 000
350	327	367	1 360	8 000	3 000
400	378	418	1 550	9 000	3 000
450	428	468	1 750	10 000	3 000
500	478	520	1 940	11 500	3 000

¹⁾ See ISO 6708.

NOTES

¹ The relationship between the bend radius and the coiling diameter of a hose is given in ISO 7658.

² These hoses may be coated externally for special uses, in which case dimensions and performance will be modified.