
Aeronavtika - Gibke cevi iz PTFE z zvito notranjo cevjo za nazivni tlak do 6800 kPa in armaturo 8°30' iz titana - Standard za proizvod

Aerospace series - PTFE flexible hose assembly with convoluted inner tube of a nominal pressure up to 6 800 kPa and 8°30' fitting in titanium - Product standard

Luft- und Raumfahrt - Schlauchleitung aus PTFE bis 6 800 kPa Nenndruck mit gewickeltem Innenschlauch und 8°30' Armatur aus Titan - Produktnorm

Série aérospatiale - Tuyauterie flexible en PTFE de pression nominale jusqu'à 6 800 kPa avec tube intérieur convoluté et raccordement 8°30' en titane - Norme de produit

<https://standards.iteh.ai/catalog/standards/sist/8b11285b-ca8e-4f7e-9fb4-106e0539a09/sist-en-3572-2021>

Ta slovenski standard je istoveten z: EN 3572:2021

ICS:

49.025.30	Titan	Titanium
49.080	Letalski in vesoljski hidravlični sistemi in deli	Aerospace fluid systems and components

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3572

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ICS 49.080

English Version

Aerospace series - PTFE flexible hose assembly with convoluted inner tube of a nominal pressure up to 6 800 kPa and 8°30' fitting in titanium - Product standard

Série aérospatiale - Tuyauterie flexible en PTFE de pression nominale jusqu'à 6 800 kPa avec tube intérieur convoluté et raccordement 8°30' en titane - Norme de produit

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This European Standard was approved by CEN on 30 November 2020.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 3572:2021) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

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of an identical text or by endorsement, at the latest by September 2021, and conflicting national standards shall be withdrawn at the latest by September 2021.

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

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EN 3572:2021 (E)

1 Scope

This document specifies the dimensions of a hose assembly which is in accordance with ISO 7313.

The hose assembly couples to the fittings specified in EN 3274, which are made out of titanium.

The hose is protected either by means of an anti-abrasive, anti-shock and anti-projection sleeve or by means of a fire resistant or fire proof sleeve in accordance with ISO 2685.

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 2424, *Aerospace series — Marking of aerospace products*

ISO 7313, *Aircraft — High temperature convoluted hose assemblies in polytetrafluoroethylene (PTFE)*

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:

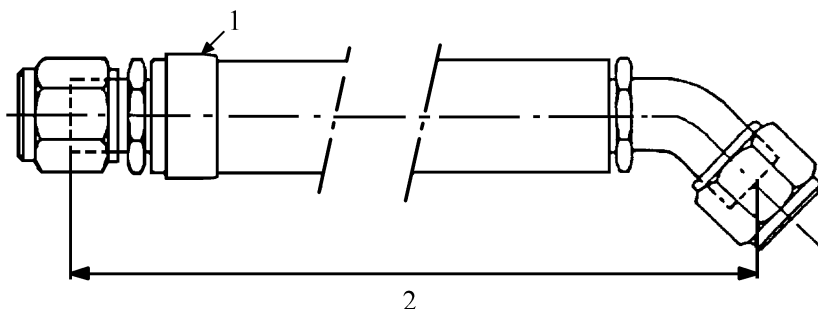
— ISO Online browsing platform: available at <https://www.iso.org/obp/ui>

— IEC Electropedia: available at <http://www.electropedia.org/>
<https://standards.iteh.ai/catalog/standards/sist/8b11285b-ca8e-4f7e-9fb4-a1c6c0539a09/sist-en-3572-2021>

4 Length of hose assembly

The length of the hose assembly is measured starting from the theoretical sealing point of the fitting specified in the relevant standard (see Figure 1).

Example for a length of 680 mm use code “FJ”.



Key

- 1 identification strip
- 2 length of hose assembly

Figure 1 — Hose assembly

The standard lengths chosen in Table 1 take into account the tolerances specified in Table 2.

Table 1 — Standard length

Dimensions in millimetres

2 nd code letter	1 st code letter																				
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	Y
A		200	300	400	500	600	700	800	900	1 000	1 100	1 200	1 300	1 400	1 500	1 600	1 700	1 800	1 900	2 000	—
B	120	205	306	406	510	610	715	815	915	1 020	1 120	1 220	1 320	1 420	1 525	1 625	1 725	1 825	1 925	2 030	—
C	124	210	312	412	520	620	730	830	930	1 040	1 140	1 240	1 340	1 440	1 550	1 650	1 750	1 850	1 950	2 060	—
D	128	215	318	418	530	630	745	845	945	1 060	1 160	1 260	1 360	1 460	1 575	1 675	1 775	1 875	1 975	2 090	—
E	132	220	324	424	540	640	760	860	960	1 080	1 180	1 280	1 380	1 480	—	—	—	—	—	—	—
F	136	225	330	430	550	650	775	875	975	—	—	—	—	—	—	—	—	—	—	—	—
G	140	230	336	436	560	660	790	890	990	—	—	—	—	—	—	—	—	—	—	—	—
H	144	235	342	442	570	670	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
J	148	240	348	448	580	680	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
K	152	245	354	454	590	690	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
L	156	250	360	460	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
M	160	255	366	466	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
N	164	260	372	472	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
P	168	265	378	478	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
R	172	270	384	484	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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2 nd code letter	1 st code letter																				
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	Y
S	176	275	390	490	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
T	180	280	396	496	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U	184	285	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
V	188	290	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
W	192	295	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Y	196	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Table 2 — Tolerances

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Dimensions in millimetres

Nominal length	120	200	300	500	700	1 000	1 500	> 2 000
	196	295	496	690	990	1 480	1 975	
Tolerance on length	±2	±2,5	±3	±5	±7,5	±10	±12,5	±15

5 Sleeve

The different types of sleeves are shown in Table 3.

Table 3 — Type of sleeve

Code number	Type of sleeve
0	Hose alone, without sleeve
1	Anti-abrasion spiral sleeve (nylon)
2	Anti-abrasion spiral sleeve (PTFE)
3	Anti-abrasion sleeve with integral polyester braiding
4	Shrink sleeve in fluorinated ethylene propylene (FEP)
5	Shrink sleeve in polyolefin
6	Fire proof sleeve in silicone/glass fibre (15 min)
7	Fire resistant sleeve in silicone/glass fibre (5 min)
8	Integral fire proof sleeve in silicone (15 min)
9	Integral fire resistant sleeve in silicone (5 min)
NOTE The minimum bend radius is given by the manufacturer.	

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6 Nominal dimensions of hose and fittings

Table 4 shows the codes for the different diameters. Table 5 shows the possible combinations of the fittings and hoses.

Table 4 — Cross reference table between nominal diameter and code letter

Nominal diameter	5	6	8	10	12	16	20	25	32	40	50
Code letter	C	E	F	G	H	J	K	M	N	P	R

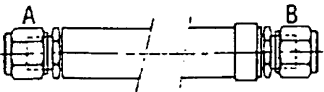
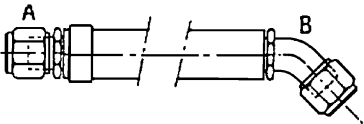
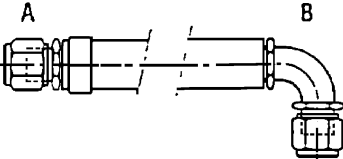
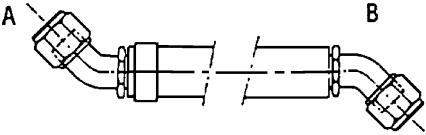
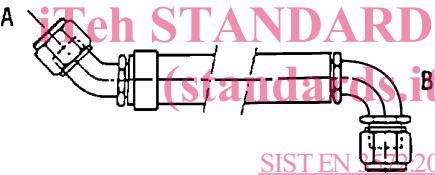
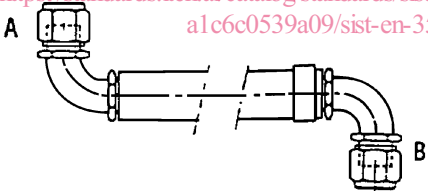
Table 5 — Usable nominal diameter

Hose	E	G	H	J	K	M	N	P	R
Usable	C	F	G	H	J	K	M	N	P
Fittings	E	G	H	J	K	M	N	P	R
A and B	F	H	J	K	M	N	P	R	—

7 Definition of fittings

The fitting combinations are shown in Table 6.

Table 6 — Fitting combinations

Code number	Fitting combinations	End fittings configuration
1		A straight B straight
2		A straight B 45°
3		A straight B 90°
4		A 45° B 45°
5		A 45° B 90°
6		A 90° B 90°

8 Orientation angles of fittings

The angle of orientation β is measured in degrees and counterclockwise starting from the fitting facing the observer (see Figure 2). Table 7 shows the different angles of orientation.