
International Standard



1179

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Pipe connections, threaded to ISO 228/1, for plain end steel and other metal tubes in industrial applications

Raccordements de tuyauteries, filetés selon ISO 228/1, pour tubes à extrémités lisses en acier et autres tubes métalliques dans les applications industrielles

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Descriptors : pipes (tubes), steel tubes, pipe fittings, pipe joints, pipe threads, dimensions.

Foreword

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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.

International Standard ISO 1179 was developed by Technical Committee ISO/TC 5, *Ferrous metal pipes and metallic fittings*, and was circulated to the member bodies in May 1980.

It has been approved by the member bodies of the following countries :

| | | |
|-----------|----------------|-----------------------|
| Australia | Hungary | Romania |
| Belgium | India | South Africa, Rep. of |
| Brazil | Israel | Spain |
| Chile | Italy | Sweden |
| Denmark | Korea, Rep. of | Switzerland |
| Finland | Netherlands | USSR |
| France | Norway | |

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Germany, F.R.
United Kingdom

This second edition cancels and replaces the first edition (i.e. ISO 1179-1973).

Pipe connections, threaded to ISO 228/1, for plain end steel and other metal tubes in industrial applications

1 Scope and field of application

This International Standard lays down a limited range of threads for connection of tubes to machines or equipment and indicates the related outside diameters of the tubes.

This International Standard does not attempt to specify the method of connecting the tube to the fitting, or the type of pipe connector.

2 References

ISO 7/1, *Pipe threads where pressure-tight joints are made on the threads — Part 1 : Designation, dimensions and tolerances.*¹⁾

ISO 228/1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1 : Designation, dimensions and tolerances.*²⁾

3 Type of threads

The specified thread denotes the connection between the machine or equipment and the connector. It shall be in accordance with ISO 228/1 — Class A tolerances.

1) At present at the stage of draft. (Revision of ISO 7/1-1978.)

2) At present at the stage of draft. (Revision of ISO 228/1-1978.)

4 Dimensions

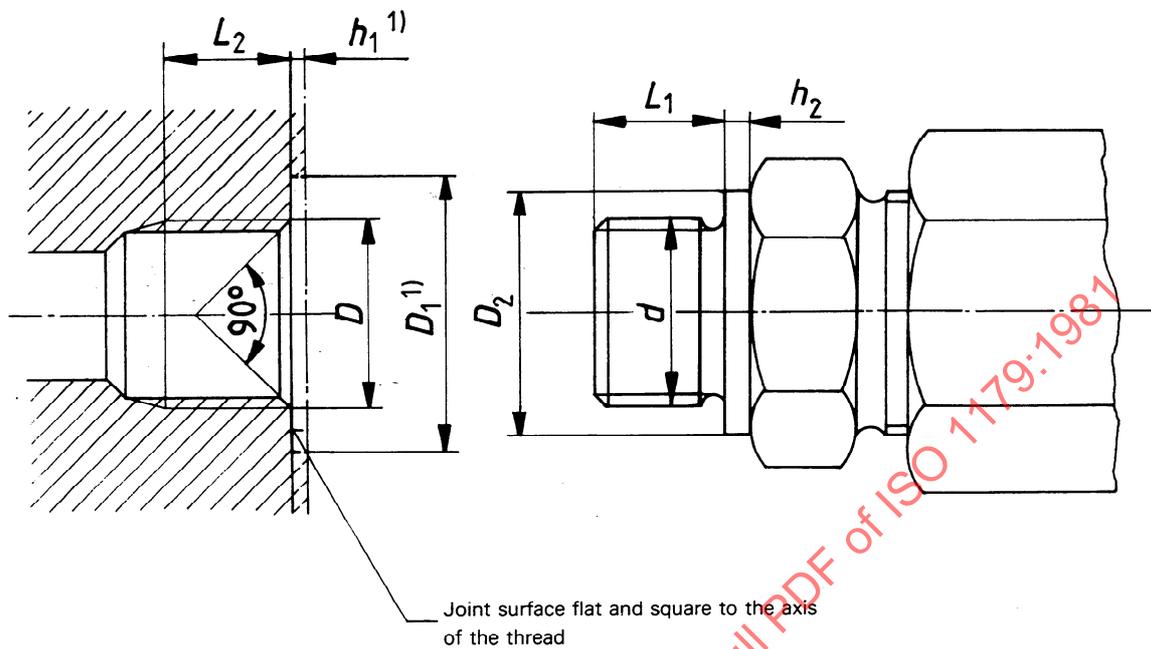


Figure 1

Table 1

Dimensions in millimetres

| Designation of thread according to ISO 228/1 | | Thread length L_1 male max. L_2 female min. | Dimensions of recess ¹⁾ | | Dimensions of collar | |
|--|-----------|---|------------------------------------|------------|----------------------|------------|
| D | d | | D_1 min. | h_1 max. | D_2 h14 | h_2 min. |
| G 1/16 | G 1/16 A | 7,4 | 13 | 1 | 12 | 1 |
| G 1/8 | G 1/8 A | 7,4 | 15 | 1 | 14 | 1 |
| G 1/4 | G 1/4 A | 11,0 | 19 | 1,5 | 18 | 1,5 |
| G 3/8 | G 3/8 A | 11,4 | 23 | 2 | 22 | 2 |
| G 1/2 | G 1/2 A | 15,0 | 27 | 2,5 | 26 | 2,5 |
| G 3/4 | G 3/4 A | 16,3 | 33 | 2,5 | 32 | 2,5 |
| G 1 | G 1 A | 19,1 | 40 | 2,5 | 39 | 2,5 |
| G 1 1/4 | G 1 1/4 A | 21,4 | 50 | 2,5 | 49 | 2,5 |
| G 1 1/2 | G 1 1/2 A | 21,4 | 56 | 2,5 | 55 | 2,5 |
| G 2 | G 2 A | 25,7 | 69 | 3 | 68 | 3 |

The lengths L_2 of the female threads given in table 1 are also suitable for assembly with male threads in accordance with ISO 7/1.

1) Where a recess is necessary, the dimensions shall be as given in table 1, unless otherwise specified, for example for O-rings.

5 Choice of tubes corresponding to the size of thread

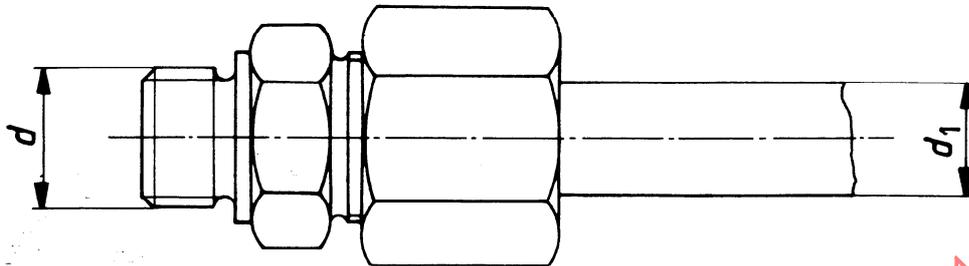


Figure 2

Table 2

Dimensions in millimetres

| Designation of thread according to ISO 228/1 <i>d</i> | Tubes Outside diameter <i>d</i> ₁ |
|--|--|
| G 1/16 A | 4 |
| G 1/8 A | 6 |
| G 1/4 A | 6 8 10 |
| G 3/8 A | 10 12 |
| G 1/2 A | 15 16 18 |
| G 3/4 A | 20 22 |
| G 1 A | 25 28 |
| G 1 1/4 A | 30 35 |
| G 1 1/2 A | 38 42 |
| G 2 A | 50 |

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