
International Standard



7349

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

Thermoplastics valves — Connection references

Robinets en matières thermoplastiques — Références de raccordement

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[ISO 7349:1983](https://standards.iteh.ai/catalog/standards/sist/4fd3aade-7a8c-47c5-8ca6-7d63d3404af4/iso-7349-1983)

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Descriptors : thermoplastic valves, comparison, junctions, connecting dimensions, piping, pipe joints.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

International Standard ISO 7349 was developed by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, and was circulated to the member bodies in January 1981.

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

Austria	India	Romania
Belgium	Ireland	South Africa, Rep. of
Brazil	Israel	Spain
Czechoslovakia	Italy	Sweden
Denmark	Japan	Switzerland
Egypt, Arab Rep. of	Korea, Rep. of	United Kingdom
Finland	New Zealand	USSR
Germany, F. R.	Poland	
Greece	Portugal	

No member body expressed disapproval of the document.

Thermoplastics valves — Connection references

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1 Scope and field of application

This International Standard specifies and identifies in a table of comparison the possible types of connections of thermoplastic valves to various pipe systems.

It may later be extended to other pipe and connection systems or additional pipe ranges.

The designation will be specified in the appropriate product standard.

2 References

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

ISO 161/1, *Thermoplastics pipes for the transport of fluids — Nominal outside diameters and nominal pressures — Part 1 : Metric series.*

ISO 2084, *Pipeline flanges for general use — Metric series — Mating dimensions.*

3 Symbols

ISO 7349:1983

<https://standards.iteh.ai/catalog/standards/sist/4673aade-7e6e-47e5-87e6-f1e2-474916e1c150/iso-7349-1983>

d_e = nominal outside diameter of thermoplastics pipes in accordance with ISO 161/1.

D_1 = nominal inside diameter of socket or outside diameter of spigot for solvent cementing or socket fusion.

D_2 = designation of nominal pipe thread in accordance with ISO 7/1.

D_3 = nominal inside diameter of socket or outside diameter of spigot for elastomeric sealing rings.

DN = Nominal diameter for flange systems in accordance with ISO 2084.

NOTE — **nominal size (DN)** : Numerical designation of size which is common to all components in a piping system other than components designated by outside diameters. It is a convenient round number for reference purposes and is only loosely related to manufacturing dimensions.

4 Comparison of systems of connections

Table

Butt fusion	System of connection			
	Solvent cemented or socket fusion	Screwed	Flanged	Elastomeric sealing rings
	Nominal inside diameter of socket or nominal outside diameter of spigot D_1 mm	Designation of pipe thread * D_2	Nominal size of flange DN	Nominal inside diameter of socket or nominal outside diameter of spigot D_3 mm
Nominal outside diameter of pipe d_e mm				
12	12	1/4	8	12
16	16	3/8	10	16
20	20	1/2	15	20
25	25	3/4	20	25
32	32	1	25	32
40	40	1 1/4	32	40
50	50	1 1/2	40	50
63	63	2	50	63
75	75	2 1/2	65	75
90	90	3	80	90
110	110	4	100	110
125	125	—	100/125	125
140	140	5	125	140
160	160	6	150	160
180	180	—	175	180
200	200	—	175/200	200
225	225	—	200	225
250	250	—	225/250	250
280	280	—	250	280
315	315	—	300	315

* The complete designation of thread shall be in accordance with ISO 7/1, i.e. for

- 1) an external thread : **Pipe thread ISO 7/1 – R...**;
- 2) an internal thread
 - parallel : **Pipe thread ISO 7/1 – Rp...**;
 - taper : **Pipe thread ISO 7/1 – Rc....**

The pipe thread designation taken from this column remains unchanged.