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ISO RECOMMENDATION R 265

SOCKET FITTINGS WITH SPIGOT ENDS FOR DOMESTIC AND INDUSTRIAL WASTE PIPES

BASIC DIMENSIONS: METRIC SERIES

https://standards.iteh.ai/catalog/standards/sist/9565e742-2db4-400e-8d2f-6c650d315e8a/iso-r-265-1962

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July 1962

3

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BRIEF HISTORY

The ISO Recommendation R 265, Pipes and Fittings of Plastics Materials—Socket Fittings with Spigot Ends for Domestic and Industrial Waste Pipes—Basic Dimensions: Metric Series, was drawn up by the Technical Committee ISO/TC 5, Pipes and Fittings, the Secretariat of which is held by the Association Suisse de Normalisation (SNV).

Work on this question by the Technical Committee began in 1957 and led, in 1959, to the adoption of a Draft ISO Recommendation.

In October 1960, this Draft ISO Recommendation (No. 408) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies:

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Belgium Hungary Portugal Chile IndiaSO/R 265:1962 Romania

Czechoslovákia dards. iteh. ai/drang/standards/sist/9565e Spain 164-400e-8d2f-

France 6cIsrael15e8a/iso-r-265-196Switzerland
Germany Italy U.S.S.R.

Greece Poland Yugoslavia

Four Member Bodies opposed the approval of the Draft:

Denmark, Netherlands, Norway, Sweden

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in July 1962, to accept it as an ISO RECOMMENDATION.

_ 2 _

PIPES AND FITTINGS OF PLASTICS MATERIALS SOCKET FITTINGS WITH SPIGOT ENDS FOR DOMESTIC AND INDUSTRIAL WASTE PIPES

BASIC DIMENSIONS: METRIC SERIES

1. SCOPE

This ISO Recommendation applies to plastics socket fittings with spigot ends for domestic and industrial waste pipes, regardless of their method of manufacture (except fittings fabricated from tubes) and composition. Its object is to specify the series of diameters to be used and the dimensions which are common to all types of fittings.*

It contains 46 types and sizes of fittings and should be used immediately as a *guide* to manufacturers and users and as a *basis* for specific standards. It may later be extended to other types and sizes of fittings, when the development of plastics materials in the field of pipe systems makes this necessary.

Extension to other types should be made by observing the principles laid down in this ISO Recommendation.

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2. DIAMETERS OF FITTINGS (SIZES)

The diameters of jointing should be the following: https://standards.iteh.av.catalog/standards/sist/9565e742-2db4-400e-8d2f-

32 6c6550|315e75/iso-r-1405-196160 mm.**

Fittings are designated by the diameters of their sockets. In the case of nipples, these are designated by the diameters of the jointing surfaces, giving the male end first.

3. ANGLES

For elbows and tees (branches), the angles should be 45° , $67\frac{1}{2}^{\circ}$ or $87\frac{1}{2}^{\circ}$.

4. LAYING LENGTH

When assembling a pipe system, the dimensions between the ends of the tubes which it is required to join are necessary. These have been designated

- "tube to tube": when the openings in the fitting concerned are in a single direction,
- "tube to axis": when the openings in the fitting are not in a single direction,

and have been listed in section 5.

^{*} This ISO Recommendation does not give all the dimensions which are required by the different manufacturers to produce the fittings. This aim will be achieved by adding separate ISO Recommendations covering the socket length, spigot end length, etc.

^{**} However, if for technical reasons supplementary diameters should be necessary, these should be taken from the diameter series of ISO Recommendation R 161, Pipes of Plastics Materials for the Transport of Fluids (Outside Diameters and Nominal Pressures). Part I: Metric Series.

5. DIMENSIONS OF FITTINGS

The various types of fittings are designated by their diameters of jointing and the laying lengths * given in the following tables. These dimensions are expressed in millimetres.

The figures illustrating this document have been arbitrarily chosen without prejudice to the execution of the fitting.

5.1 45° Elbows

Dimensions in millimetres

Type of fitting	Diameters of jointing	Laying lengths		
2,700 0. 2.1	D	Z_1	Z ₁	
45° Elbow	32	11	11	
124	50	17	17	
N Teh STANDAR	75 RD PRF	25 VIEW	25	
(standard	s.iten.ai	37	37	
ISO/R 26: https://standards.iteh.ai/catalog/standard	5:196 2 60 s/sist/9565e742	53 -2db4-400e-8d	53 2f-	

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5.2 671/2° Elbows

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Dimensions in millimetres

Type of fitting	Diameters of jointing	Laying lengths		
	D	Z_1	Z ₂	
67 ½° Elbow	32	18	18	
Z ₂	50	27	27	
N	75	40	40	
	110	59	59	
	160	86	86	

[•] Laying lengths: dimensions "tube to tube" and "tube to axis".

5.3 87¹/₂° Elbows

Dimensions in millimetres

Type of fitting	Diameters of jointing	Laying lengths		
	D	Z_1	Z_2	
87½° Elbow	32	25	25	
Z ₂ Ø ₃	50	39	39	
N	75	58	58	
Exact inclination: 4 per cent	110	85	85	
4 per cent	160	124	124	

5.4 45° Branches Teh STANDARD PREVIEW (standards.iteh.ai) Dimensions in millimetres

ISO/R 265:1962	0	Diameter:	.	Lay	ying leng	ths
https://standard.Typehofifitting/g/standards/sist/95656 6c650d315e8a/iso-r-265-196	/1	D 2	e-8d2f- D 3	Z_1	Z_2	Z_3
45° Branches	32	32	32	11	41	41
\$50	50	50	50	17	63	63
2	50	32	50	2	54	50
	75	75	75	25	93	93
	75	50	75	4	81	76
N N	110	110	110	37	136	136
	110	75	110	8	118	111
	160	160	160	53	196	196
①	160	110	160	12	171	161

5.5 67¹/₂° Branches

Dimensions in millimetres

Type of fitting	Diameters of jointing			Laying lengths		
	D 1	D 2	D 3	Z_1	Z_2	Z_3
67½° Branches	32	32	32	18	26	26
3	50	50	50	27	40	40
5),	50	32	50	14	36	30
2	75	75	75	40	59	59
N° I	75	50	75	22	54	45
N 722	110	110	110	59	85	85
	110	75	110	33	78	67
TEL STANDAD	160	160	160	86	123	123
(standards	160 Ite	110. 1.21	160	49	113	96

5.6 87¹/₂° Branches

ISO/R 265:1962

https://standards.iteh.ai/catalog/standards/sist/9565e742-2db bimensions in millimetres 6c650d315e8a/iso-r-265-1962

Type of fitting	Diameters of jointing			Laying lengths		
	D 1	D 2	D 3	Z_1	Z_2	Z_3
87½° Branches	32	32	32	25	25	17
3	50	50	50	39	39	26
2	50	32	50	25	34	17
	75	75	75	58	58	39
	75	50	75	38	51	26
N L4%	110	110	110	85	85	57
Z_2 Exact inclination of branch:	110	75	110	58	76	40
D 4 per cent	160	160	160	124	124	83
0	160	110	160	84	110	58

5.7 Eccentric sockets reducing

Dimensions in millimetres

Type of fitting	Diameters of jointing $D \times d$	Laying lengths $oldsymbol{\mathcal{Z}}_1$
Eccentric socket reducing	50×32	20
	75×50	28
	110×75	38
	160×110	53

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