INTERNATIONAL STANDARD

ISO 8283-2

First edition 1992-12-01

Plastics pipes and fittings — Dimensions of sockets and spigots for discharge systems inside buildings —

iTeh SPart 2: DARD PREVIEW Polyethylene (PE) (standards.iteh.ai)

https://standards. Tubes et raccords en matières plastiques — Dimensions des emboîtures et des bouts mâles pour raccordement de tubes et raccords dans les systèmes d'évacuation à l'intérieur des bâtiments —

Partie 2: Polyéthylène (PE)



Reference number ISO 8283-2:1992(E)

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75% of the member VIEW bodies casting a vote.

International Standard ISO 8283-2 was prepared by Technical Committee ISO/TC 138, Plastics pipes, fittings and valves for the transport of fluids, Sub-Committee SC 1, Plastics pipes and fittingsSfor2soil;1waste and drainage (including land drainage) and ards.iteh.ai/catalog/standards/sist/003d5a72-1e9e-4e64-86eb-

ISO 8283 consists of the following parts, under the general title *Plastics* pipes and fittings — Dimensions of sockets and spigots for discharge systems inside buildings:

- Part 1: Unplasticized poly(vinyl chloride) (PVC-U) and chlorinated poly(vinyl chloride) (PVC-C)
- Part 2: Polyethylene (PE)
- Part 3: Polypropylene (PP)
- Part 4: Acrylonitrile/butadiene/styrene (ABS)

Annex A forms an integral part of this part of ISO 8283.

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International Organization for Standardization

Case Postale 56 • CH-1211 Genève 20 • Switzerland

Introduction

The socket design appropriate for a particular application should be chosen according to the type of system and jointing techniques to be used. Various socket designs are specified in this part of ISO 8283. They may be selected for use in accordance with the requirements of relevant national standards and codes of practice, which give information on the choice of the type of system and jointing techniques to be used.

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Plastics pipes and fittings — Dimensions of sockets and spigots for discharge systems inside buildings —

Part 2: Polyethylene (PE)

1 Scope

iTeh STANDARD.2 Ring-seal grooves

This part of ISO 8283 specifies the design formulae **S. IA selection** of typical ring-seal groove designs is and the derived dimensions, together with tolerances, of sockets and spigots for joints of 83-2:10 f specified dimensions are indicated. The design polyethylene (PE) fittings and for integral sockets of lards/sixt003d54/2-1696-4664-8660-PE pipes used in discharge systems inside buildings/so-8283-2-1992

where such joints are intended to accommodate expansion and contraction in the discharge system. Sockets and spigots for thermal and electrothermal welding are excluded.

2 Ring-seal sockets and spigots

2.1 General

These sockets can accommodate expansion and contraction in a discharge system.

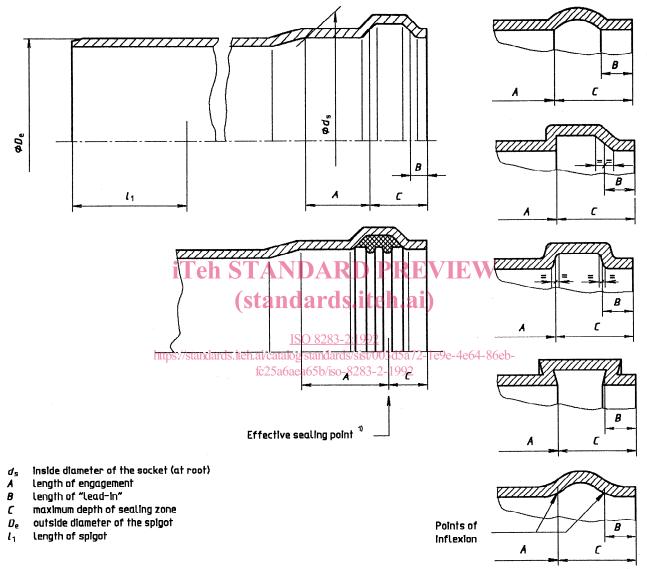
2.3 Seal-ring retaining components

Seal-ring retaining components may be manufactured from plastics materials other than PE.

2.4 Dimensions

When measured in accordance with figure 1, the dimensions of ring-seal sockets and related spigots shall comply with the applicable limits given in table 1.

There shall be no requirement on dimension B where the seal-ring is firmly retained in the groove.



1) When a sealing ring with more than one sealing point is used, the points of measurement for A and C shall be indicated by the manufacturer and these points shall give a full sealing action.



			d _s	А	В	Systems ¹⁾			
Nominal outside diameter	De					I		11	
D	min.	max.	min.	min.	min.	C max.	l ₁ min.	C max.	l ₁ . min.
32	32,0	32,3	32,4	28	5	18	46	25	53
40	40,0	40,4	40.5	28	5	18	46	26	54
50	50,0	50,5	50,6	28	5	18	46	28	56
63	63,0	63,6	63,7	31	5	18	49	31	62
75	75,0	75,7	75,8	33	5	18	51	33	66
90	90,0	90,9	A 91 D	A 36) PR	20/1	56 /	36	72
110	110		111.1	40	6	22	62	40	80
125	125.0	126.2	126.3	43	4 7	26	69	43	86
160	160.0	161,5	161,6	r <u>5</u> 65.	ITGN.	32	82	50	100
200	200.0	201.8	201.9	58	12	40	98	58	116
250	250,0	252,3	252.4	68 2.1	18	50	118	68	136
315	315,0	317,9	318	8285-2:1	<u>20</u>	63	144	81	162

 Table 1 — Dimensions of ring-seal sockets and related spigots

 Dimensions in millimetres

NOTE — This table specifies the permitted limits, calculated using the relationships given in annex A, on the main dimensions indicated in figure 1, together with non-calculated limits on the other dimensions. The calculated values have been rounded up to the nearest 0,1 mm for diameters and rounded to the nearest 1 mm for other dimensions. The value given for the length of engagement A in table 1 relates to a pipe length of 3 m inside buildings above ground.

The nominal outside diameters have been selected from ISO 161-1:1978, Thermoplastics pipes for the transport of fluids — Nominal outside diameters and nominal pressures — Part 1: Metric series.

1) Pipes and fittings with sockets in accordance with systems I and II are not interchangeable.

Annex A

(normative)

Ring-seal design calculations

Table A.1 — Relationships for the calculation of the dimensions of ring-seal sockets and related dimensions

Dimensions in millimetres

Nominal outside diameter	D _e		d _s	А	I ₁ 1)				
D	min.	max.	min.	min.	min.				
32	32,0	$D_{\rm e,min} + 0,3$							
40	40,0								
50	50,0								
63	63,0								
75	- <mark>i,Te</mark>	h STAN	DARD I	PREVIEV	V				
90	90,0	(stand	lards.ite $D_{e,max} + 0,1$	h.ai) $0,2D_{e,min} + 18,$	$C_{\max} + A_{\min}$				
110	110,0	1,009 <i>D</i> _{e,min}	SO 8283-2:1992	at least 28	C'max [†] 2'min				
125	http25/otan			3d5a72-1e9e-4e64-	86eb-				
160	160,0	1023808	ea65b/iso-8283-2	-1992					
200	200,0								
250	250,0								
315	315,0								
1) Applies to system I and II.									

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