

Designation: D 2749 – 02

Standard Symbols for Dimensions of Plastic Pipe Fittings¹

This standard is issued under the fixed designation D 2749; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

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1. Scope

1.1 These symbols specify terminology for the dimensions of pipe fittings made of plastic materials. It consists of a list of letter designations with definitions, followed by drawings of typical fittings, with the significant dimensions labeled in accordance with these letter designations.

2. Letter Designations of Dimensions

2.1 The letter designations are defined as follows:

A	_	socket entrance diameter, measured at intersection	EJ
		of socket diameter and chamfer or radius,	
		regardless of length "C",	EN
В	=	socket bottom diameter, measured at intersection	EW
		of socket diameter and radius,	EX
С	=	socket depth, measured from socket entrance face	FZ
		to socket bottom face,	EZ
D	=	inside diameter of body,	
E	=	wall thickness of socket, min, france / crance	
F	=	wall thickness of body,	2
G	=	intersection of socket center lines to socket bottom	dim
		(center-to-socket bottom), 90° elbows, tees, crosses, and shoulder	the
		on insert fittings; a laying length,	
Н	=	intersection of socket center lines to end of fitting	the
		(center-to-end), 90° elbows, tees, crosses; center to face,	by a
J	=	intersection of socket center lines to socket bottom	ther
К		(center-to-socket bottom), 45° elbow; a laying length, $S \parallel M \parallel D \perp /4$	7=U
https	·7/st	intersection of socket center lines to end of fitting (center-to-end), 45° elbow,	and
I	=	length over-all, coupling,	diff
M	_	outside diameter of hub.	nate
N	_	socket bottom to socket bottom or seat thickness	exa
	_	(center stop thickness or pipe stop thickness),	
Р	=	insert length,	ada
Q	=	distance or width across flat,	
R	=	height of head,	3. 1
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¹ These symbols are under the jurisdiction of ASTM Committee F17 on Plastic Piping Systems and is the direct responsibility of Subcommittee F17.10 on Fittings. Current edition approved September 10, 2002. Published November 2002. Originally published as D 2749 – 68. Last previous edition D 2749 – 92 (1999)^{e1}.

EX	=	thickness with 30° taper on socket entrance;			
		30° entrance chamfer width, and			
EZ 🖉	=	thickness with 45° taper on socket entrance;			
		45° entrance chamfer width.			
2.2	Whe	n there are two different values for one categorical			
dimens	ion	on a fitting, the large one shall be designated with			
the lett	er fo	or that category followed by a J meaning major, and			
		ne shall be designated by the same letter followed			
by an l	N m	eaning minor; for example, on a 45-deg Y-branch,			
there a	re tv	vo J dimensions, the longer one is designated as JJ			
and the	e sh	orter one as JN. When there are more than two			
differer	nt va	lues for one categorical dimension, they are desig-			
nated v	vith	the proper letter followed by an arabic number; for			
exampl	e, I	L1, L2, and L3 for the three lengths on a plastic			
adapter to connect plastic pipe to a cast iron hub.					

length of male thread, includes pilot,

male end of spigot at top, see Fig. 1,

male end of spigot at bottom, see Fig. 1

counterbore on threaded fittings, optional,

wall thickness of socket, major, bushing;

wall thickness of male end, bushing, wall thickness of socket, minor, bushing,

length of female thread.

root diameter of barbs,

length of barb section,

outside diameter of barbs

length of male end, bushing,

radius on socket entrance,

inside diameter, major, bushing,

includes pilot,

cap height.

3. Illustrations

3.1 Illustrations of typical fittings are shown in Figs. 2-22.

4. Keywords

plastic pipe fitting; symbol definitions; symbols for dimensions

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