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An American National Standard

Standard Symbols for Dimensions of Plastic Pipe Fittings[1]

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.

ε[1] NOTE—Keywords were added editorially in April 1999.

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 of socket diameter and chamfer or radius, regardless of length "C",
B	=	socket bottom diameter, measured at intersection of socket diameter and radius,
C	=	socket depth, measured from socket entrance face to socket bottom face,
D	=	inside diameter of body,
E	=	wall thickness of socket, min,
F	=	wall thickness of body,
G	=	intersection of socket center lines to socket bottom (center-to-socket bottom), 90° elbows, tees, crosses, and shoulder on insert fittings; a laying length,
H	=	intersection of socket center lines to end of fitting (center-to-end), 90° elbows, tees, crosses; center to face,
J	=	intersection of socket center lines to socket bottom (center-to-socket bottom), 45° elbow; a laying length,
K	=	intersection of socket center lines to end of fitting (center-to-end), 45° elbow,
L	=	length over-all, coupling,
M	=	outside diameter of hub,
N	=	socket bottom to socket bottom or seat thickness (center stop thickness or pipe stop thickness),
P	=	insert length,
Q	=	distance or width across flat,
R	=	height of head,
S	=	length of male thread, includes pilot,
T	=	length of female thread, includes pilot,
V	=	root diameter of barbs,
W	=	cap height,
X	=	male end diameter of bushing,
Y	=	length of barb section,
Z	=	outside diameter of barbs
CB	=	counterbore on threaded fittings, optional,
CM	=	length of male end, bushing,
DJ	=	inside diameter, major, bushing,
EJ	=	wall thickness of socket, major, bushing; wall thickness of male end, bushing,
EN	=	wall thickness of socket, minor, bushing,
EW	=	radius on socket entrance,
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 When there are two different values for one categorical dimension on a fitting, the large one shall be designated with the letter for that category followed by a J meaning major, and the small one shall be designated by the same letter followed by an N meaning minor; for example, on a 45-deg Y-branch, there are two J dimensions, the longer one is designated as JJ and the shorter one as JN. When there are more than two different values for one categorical dimension, they are designated with the proper letter followed by an arabic number; for example, L1, L2, and L3 for the three lengths on a plastic adapter to connect plastic pipe to a cast iron hub.

3. Illustrations

3.1 Illustrations of typical fittings are shown in Figs. 1-22.

4. Keywords

plastic pipe fitting; symbol definitions; symbols for dimensions

[1] These symbols are under the jurisdiction of ASTM Committee F-17 on Plastic Piping Systems and is the direct responsibility of Subcommittee F17.10on Fittings.

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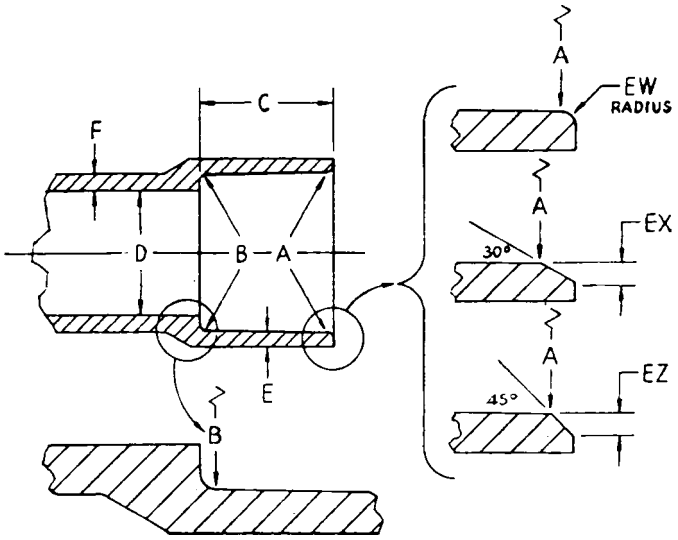


FIG. 1 Tapered Socket

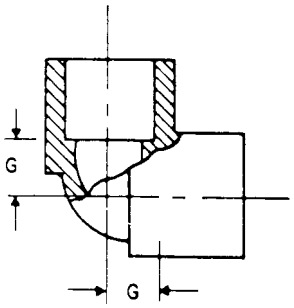


FIG. 2 90° Elbow-Socket

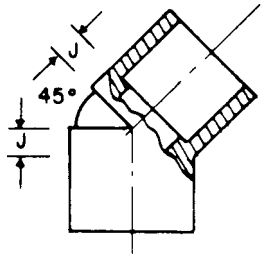


FIG. 3 45° Elbow-Socket

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