Barbed Insert Fittings Barbed Insert Fittings



STANDARDS & SPECIFICATIONS

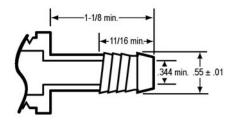


ASTM D Plastic Insert Fittings for Polyethylene 2609 (PE) Plastic Pipe.

Material Spears® Insert Fittings are produced from PVC Type 1, Cell Classification 12454, CPVC Cell Classification 23447 or Polypropylene (PP).

It is the user's responsibility to determine the suitability for the intended service application.

Dimensions of Spiral Barb Ends

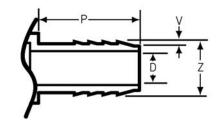


Dimensions of Polyethylene Pipe ASTM D 2104 and D 2239

Spears® Manufacturing Company Insert Fittings are designed for use with polyethylene pipe produced with average inside diameter as shown in the chart below.

Nominal Size in.	Average I.D. in.	Tolerance in.
1/2	.622	+.010
1/2	.022	010
3/4	.824	+.010
	.024	015
1	1.049	+.010
<u>'</u>	1.043	020
1-1/4 1.380	1 380	+.010
	1.500	020
1-1/2	1.610	+.015
1 1/2	1.010	020
2	2.067	+.015
	2.007	020
2-1/2	2.469	+.010
Z- 1/Z	2.409	025
3	3.068	+.015
	0.000	030
4	4.026	+.015
7	4.020	035

Dimensions of Insert Ends ASTM D 2609



Nominal Size	Insert Length "P"	Barb O.D. "Z"		Barb Depth "V"	Inside Diameter "D"
in.	min.	max.	min.	min.	min.
1/2	1-1/4	0.665	0.635	0.015	0.406
3/4	1-1/4	0.865	0.835	0.015	0.562
1	1-1/4	1.095	1.065	0.020	0.750
1-1/4	1-1/4	1.425	1.395	0.025	0.995
1-1/2	1-1/2	1.665	1.630	0.030	1.125
2	1-1/2	2.125	2.085	0.030	1.656
2-1/2	2	2.520	2.487	0.030	2.062
3	2-1/8	3.125	3.086	0.030	2.600
4	3	4.090	4.044	0.030	3.525

INSERT FITTING INSTALLATION

Pipe is cut to length with handsaw or knife. When installing flexible lines, (a) snake line one foot or more per 100 lineal feet, (b) cold water should be run through lines prior to backfilling to permit pipe to contract, (c) care should be taken to prevent large and sharp-edged rocks from being in position to crush pipe. Insert fittings are used to join lengths of flexible pipe. Stainless steel clamps are first slipped over ends of pipe, fitting is inserted and steel clamps are tightened securely over barbs on fittings. DO NOT use oil or detergent on any fittings. Use plain water or soapy water as lubricant on fitting. For attachment to previously installed metallic systems or threaded fixtures, the insert adapter is utilized. Apply thread sealant to the threaded end of adapter and tighten into female connection. Steel clamp is then slipped over pipe end and pipe slipped over serrated end of insert adapter. Steel clamp is then positioned over serrations on insert adapter and securely tightened with a screwdriver.

TWIST LOCK INSERT INSTALLATION

Twist Lock Fittings with built in lock ring are installed the same as regular Insert Fittings, but do not require steel clamps. Check that lock ring component is fully threaded onto fitting. Slip pipe over serrated end of insert adapter. Twist lock ring back over pipe and barb to seal.

SPIRAL BARB FITTING INSTALLATION

Spiral Barb fittings are designed for use with 1/2" (.490) polyethylene irrigation hose and do not require steel clamps. Install with a twisting motion to fully engage barbs.

Barbed Insert Fittings Barbed Insert Fittings



Part Number	Size			Disc Code	
		1 11	0.11	0000	Lacii

1/2

3/4

1

1-1/4

1-1/2

2

CPVC Female Adapter

Fipt x Insert 1435-005C

1435-007C

1435-010C

1435-012C

1435-015C

1435-020C

50	300	143	4.87
50	400	143	6.65
50	0	143	7.56
25	0	143	8.29

143 0

25

10 0 143

Special Reinforced PVC Female Adapter SR Fipt x Insert

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10.47

13.72

1435-005SR	1/2	50	400	142	5.73
1435-007SR	3/4	50	400	142	6.77
1435-010SR	1	50	0	142	8.07
1435-015SR	1-1/2	20	0	142	22.78

PVC Reducing Female Adapter Fipt x Insert



1435-074	1/2X3/4	50	500	140	5.97
1435-101	3/4X1/2	50	600	140	5.53
1435-102	3/4X1	50	0	140	6.17
1435-131	1X3/4	50	0	140	4.07

PVC Male Adapter Mipt x Insert



.96 .18
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.22
.93
.16
.16
.14
.00
.61
.26
.72
.35
7

1	Fabricated	- Gray PVC	
2	Fabricated	- White PVC	

CPVC Male Adapter Mipt x Insert



1436-005C	1/2	1400	0	143	1.39
1436-007C	3/4	50	400	143	1.69
1436-010C	1	50	0	143	1.74
1436-012C	1-1/4	20	160	143	2.61
1436-015C	1-1/2	25	0	143	3.11
1436-020C	2	10	0	143	5.92
1436-030C	3	10	0	143	26.77
1436-040C	4	10	0	143	41.38
1436-060C	6	4	0	001	139.49
1436-080CF	8	1	0	001	160.42

PVC Reducing Male Adapter Mipt x Insert



1436-074	1/2X3/4	50	300	140	3.05
1436-075	1/2X1	50	200	140	3.17
1436-101	3/4X1/2	50	600	140	2.76
1436-102	3/4X1	50	400	140	3.17
1436-131	1X3/4	50	0	140	2.85

Part Number	Size			Disc Code	
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PVC Reducing Male Adapter (continued)

Mipt x Insert							
1436-132	1X1-1/4	25	200	140	3.85		
1436-133	1X1-1/2	25	0	140	5.80		
1436-167	1-1/4X3/4	25	200	140	3.36		
1436-168	1-1/4X1	25	200	140	3.61		
1436-169	1-1/4X1-1/2	10	120	140	5.80		
1436-211	1-1/2X1	25	0	140	4.40		
1436-212	1-1/2X1-1/4	25	0	140	4.40		
1436-213	1-1/2X2	10	80	140	7.46		
1436-251	2X1-1/2	10	80	140	7.40		
1436-252*	2X2-1/2	10	0	140	13.44		
1436-292*	2-1/2X2	10	0	140	59.29		
*Assembled molded components							

CPVC Reducing Male Adapter Mipt x Insert



1436-073C	1/2X3/8	50	300	143	1.53
1436-074C	1/2X3/4	50	300	142	3.48
1436-101C	3/4X1/2	50	600	142	3.93
1436-212C	1-1/2X1-1/4	25	0	143	6.09

PVC Female Hose Adapter Female Hose Thread x Insert



435-007FHT	3/4	50	400	140	5.56	

PVC Male Hose Adapter Male Hose Thread x Insert



1436-007MHT	3/4	50	400	140	2.87

PVC Reducing Male Hose Adapter Male Hose Thread x Insert



1436-101MHT	3/4X1/2	50	600	140	2.74
1436-102MHT	3/4X1	50	400	140	3.14

PVC Pool Adapter Mipt x Hose ID



Not NSF Approved					
1436-204	1-1/2X1-1/2X1-1/4	25	0	140	5.52

PP Pool Adapter Mipt x Hose ID



Not NSF Approved					
1436-204P	1-1/2X1-1/2X1-1/4	25	0	140	5 52

PVC Plug Insert



1/2	100	600	140	1.75
3/4	100	1200	140	1.82
1	50	600	140	2.46
1-1/4	25	300	140	3.13
1-1/2	25	300	140	3.40
2	10	120	140	5.99
	3/4 1 1-1/4 1-1/2	3/4 100 1 50 1-1/4 25 1-1/2 25	3/4 100 1200 1 50 600 1-1/4 25 300 1-1/2 25 300	3/4 100 1200 140 1 50 600 140 1-1/4 25 300 140 1-1/2 25 300 140