

PVC INSERT FITTINGSFOR USE WITH POLYETHYLENE PIPE

INS-2-0406

The PVC Barbed-Insert Fitting of Choice



Engineered to provide positive grip and ease of installation. High quality and reliability have made Spears® insert fittings the preferred choice for irrigation and O.E.M. applications. A wide variety of PVC insert configurations and adapters are available for use with polyethylene pipe sizes 1/2" through 4", plus 6" & 8" Couplings and Adapters for lay-flat type irrigation hose. Special 3/8" barbed configurations allow clamp-free connection to 1/2" I.D. polyethylene irrigation hose.

Superior Choice for Use with Polyethylene Pipe

Spears® PVC Insert Fittings are designed for use with either ASTM D 2104 Schedule 40 or D 2239 SIDR pressure rated polyethylene pipe. Chemical and corrosion resistant, rigid PVC barbed inserts provide excellent grip with polyethylene materials.

Conform to ASTM D 2609

Spears[®] Insert Fittings are manufactured from high quality PVC materials to meet or exceed the applicable requirements of ASTM D 2609, Standard Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe.

Full Assortment of Configurations and Adapters

Spears[®] broad line of gray PVC Insert Fittings includes popular configurations of elbows, tees, couplings and crosses. Numerous male and female NPT threaded adapters, elbows and tees plus white PVC Schedule 40 solvent-cement socket and spigot adapters allow easy connection of insert fittings to supply or distribution systems.

Clamp-Free Spiral Barb Irrigation Hose Insert Adapters

Specially designed nominal 3/8" barb configurations allow connection of pipe Insert Fittings to conventional 1/2" polyethylene irrigation hose. Special spiral barb allows "twist-on" connection of hose without need for clamping in open end irrigation applications.

NSF Certified for Use with Potable Water

Spears® Insert Fittings are tested and Certified by the NSF International for use in potable water systems.

Sample Engineering Specification

All thermoplastic Insert Fittings shall be produced by Spears® Manufacturing Company from PVC Type I, Cell Classification 12454 meeting ASTM Standard D 1784, and shall be manufactured according to D 2609 for use with polyethylene pipe produced to ASTM D 2104 and D 2239. All Insert Fittings shall be certified by NSF for use in potable water service.



PROGRESSIVE PRODUCTS FROM SPEARS® INNOVATION & TECHNOLOGY

Quality Systems Certificate No. 293
Corporate Facilities, Sylmar, CA

Visit our web site: www.spearsmfg.com

Spears® Broad Line of Configurations . . . **Designed for a Multitude of Applications**

Standard PVC Gray Insert Fittings

Insert x Insert x Insert Schedule 40 PVC White Adapters

Insert x Insert x Socket **IPS Spigot Adapter** Insert x IPS Spigot Insert x Insert x Fipt **IPS Socket Adapter** Insert x IPS Socket Insert x Insert x Mipt

Reducing Tee Insert x Insert x Insert

> Insert x Insert x Socket Pool Adapters

Insert x Insert x Fipt **PVC** Mipt x Hose ID Insert x Insert x Mipt PP Mipt x Hose ID

90° Elbow Insert x Insert Insert x Fipt

> Insert x Mipt Special Spiral Barb Adapters

90° Reducing Elbow Insert x Insert for 1/2" Irrigation Hose Insert x Fipt

PVC Gray Insert x Mipt

Tee 3/8" Spiral Barb Side Outlet 90° Ell Insert x Insert x Fipt

Insert x Insert x 3/8" Spiral Barb Side Outlet Tee Insert x Insert x Fipt

3/8" Spiral Barb Couplings Insert x Insert x Insert x Insert Cross

Insert x 3/8" Spiral Barb Coupling Insert x Insert

Reducer Coupling Insert x Insert 90° E11 Mipt x 3/8" Spiral Barb Female Adapter Insert x Fipt

Reducing Male Adapter Mipt x 3/8" Spiral Barb Insert x SR Fipt (Special Reinforced)

Male Adapter Insert x Mipt Insert x Mipt Reducing Male Adapter

Hose Adapter Male Hose Thread x Insert Male Hose Thread x Insert Reducing Hose Adapter

Pool Adapter Mipt x Hose ID

Insert Plug

Dimensions of Polyethlene Pipe per ASTM D 2104 and D 2239

					1-1/2 2 2-1/2 3 4 1.610 2.067 2.469 3.068 4.026 +.015 +.015 +.015 +.015 020 020 025 020 025				
Nominal Size in.	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
Average I.D. in.	.622	.824	1.049	1.380	1.610	2.067	2.469	3.068	4.026
Tolerance in.	+.010	+.010	+.010	+.010	+.015	+.015	+.015	+.015	+.015
	010	015	020	020	020	020	025	030	035

NOTE: 1/2" Irrigation Hose has an average I.D. of .490 inch.

NOT FOR USE WITH COMPRESSED AIR OR GASES

Spears® Manufacturing Company DOES NOT RECOMMEND the use of thermoplastic piping products for systems to transport or store compressed air or gases, or the testing of thermoplastic piping systems with compressed air or gases in above and below ground locations. The use of our product in compressed air or gas systems automatically voids any warranty for such products, and its use against our recommendation is entirely the responsibility and liability of the installer.

DO NOT USE COMPRESSED AIR OR GAS TO TEST ANY PVC OR CPVC THERMOPLASTIC PIPING PRODUCT OR SYSTEM, AND DO NOT USE DEVICES PROPELLED BY COMPRESSED AIR OR GAS TO CLEAR SYSTEMS. THESE PRACTICES MAY RESULT IN EXPLOSIVE FRAGMENTATION OF SYSTEM PIPING COMPONENTS CAUSING SERIOUS OR FATAL BODILY INJURY.



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