

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



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
Insert x Insert x Fipt
Insert x Insert x Mipt

Schedule 40 PVC White Adapters
IPS Spigot Adapter
IPS Socket Adapter
Insert x IPS Spigot
Insert x IPS Socket

Reducing Tee Insert x Insert x Insert

Insert x Insert x Socket Pool Adapters

Insert x Insert x Fipt
Insert x Insert x Mipt
Insert x Insert x Mipt
Insert x Insert

PVC
Mipt x Hose ID
Mipt x Hose ID

90° Elbow Insert x Insert x Fipt

Insert x Mipt Special Spiral Barb Adapters

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

Insert x Mipt

PVC Gray

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

Side Outlet 90 Ell Insert x Insert x Fipt Insert x Insert x Spiral Barb

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

Coupling Insert x Spiral Barb

Coupling Insert x Insert
Reducer Coupling Insert x Insert

Female Adapter

Insert x Fipt
Insert x SP Fipt (Special Painforced)

Reducing Male Adapter

Mipt x 3/8" Spiral Barb
Reducing Male Adapter

Mipt x 3/8" Spiral Barb

Insert x SR Fipt (Special Reinforced)

Mela Adopter

Insert x Mint

Male Adapter Insert x Mipt
Reducing Male Adapter Insert x Mipt

Hose Adapter Male Hose Thread x Insert Mipt CPVC Insert Fittings

Reducing Hose Adapter Male Hose Thread x Insert x Mipt

Male Adapter Insert x Mipt

Pool Adapter Mipt x Hose ID

Plug Insert

Dimensions of Polyethlene Pipe per ASTM D 2104 and D 2239

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.

WARNING: 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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