



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 in PVC and PP 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.

Twist Lock Insert Adapter with Built-in Clamping

Special Insert Fittings design uses built-in lock ring for easy connection without clamps to Polyethylene (PE) Plastic Pipe used with standard Insert Fittings.

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.



The information contained in this publication is based on current information and Product design at the time of publication and is subject to change without notification. Our ongoing commitment to product improvement may result in some variation. No representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or results to be obtained therefrom. For verification of technical data or additional information not contained herein, please contact Spears* Technical Services Department [West Coast: (818) 364-1611 — East Coast: (678) 985-1263].

Installation Information

RECOMMENDATIONS FOR INSTALLERS AND USERS:

Plastic piping systems should be **ENGINEERED**, **INSTALLED**, and **OPERATED** in accordance with **ESTABLISHED DESIGN AND ENGINEERING STANDARDS AND PROCEDURES** for plastic piping systems. Suitability for the intended service application should be determined by the installer and/or user prior to installation of a plastic piping system. **PRIOR TO ASSEMBLY**, all piping system components should be inspected for damage or irregularities. Mating components should be checked to assure that tolerances and engagements are compatible. Do not use any components that appear irregular or do not fit properly. Contact the appropriate manufacturer of the component product in question to determine usability. Consult all applicable codes and regulations for compliance prior to installation.

SOLVENT WELD CONNECTIONS — Use quality solvent cements and primers formulated for the intended service application, pipe size and type of joint. While the pipe and fitting materials may be compatible with the intended medium, the solvent cement may not be. Consult the manufacturer for suitability of use. Read and follow the cement and primer manufacturers' applications and cure time instructions thoroughly. Be sure to use the correct size applicator.

THREADED CONNECTIONS — Use a quality grade thread sealant. WARNING: SOME PIPE JOINT COMPOUNDS OR PTFE PASTES MAY CONTAIN SUBSTANCES THAT COULD CAUSE STRESS CRACKING TO PLASTIC. Spears® Manufacturing Company recommends the use of Spears® BLUE 75™ Thread Sealant which has been tested for compatibility with Spears® products. Please follow the sealant manufacturers' application/ installation instructions. Choice of an appropriate thread sealant other than those listed above is at the discretion of the installer. 1 to 2 turns beyond FINGER TIGHT is generally all that is required to make a sound plastic threaded connection. Unnecessary OVER TIGHTENING will cause DAMAGE TO BOTH PIPE AND FITTING.

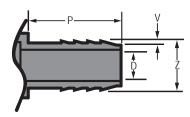
INSERT FITTING INSTALLATION – Pipe is cut to length with handsaw or knife. When installing flexible lines, (a) snake line one foot or more per 100 lineal feet, (b) cold water should be run through lines prior to backfilling to permit pipe to contract, (c) care should be taken to prevent large and sharp-edged 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.

"Lead Free" low lead certification – unless otherwise specified, all Spears® PVC & PP Insert Fittings specified here-in are certified by NSF International to ANSI/NSF® Standard 61, Annex G and is in compliance with California's Health & Safety Code Section 116825 (commonly known as AB1953) and Vermont Act 193. Weighted average lead content <=0.25%.





Dimensions of Insert Ends ASTM D 2609

Nominal Size in.	Insert Length "P"	Barb C).D. "Z"	Barb Depth "V"	Inside Diameter "D"				
	min.	max.	min.	min.	min.				
1/2	1-1/4	.665	.635	.015	.406				
3/4	1-1/4	.865	.835	.015	.562				
1	1-1/4	1.095	1.065	.020	.750				
1-1/4	1-1/4	1.425	1.395	.025	.995				
1-1/2	1-1/2	1.665	1.630	.030	1.125				
2	1-1/2	2.125	2.085	.030	1.656				
2-1/2	2	2.520	2.487	.030	2.062				
3	2-1/8	3.125	3.086	.030	2.600				
4	3	4.090	4.044	.030	3.525				

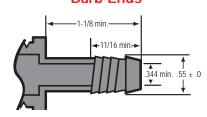
Dimensions of Polyethylene Pipe ASTM D 2104 and D 2239

Nominal Size in.	Average I.D. in.	Tolerance in.
1/2	.622	+.010010
3/4	.824	+.010015
1	1.049	+.010020
1-1/4	1.380	+.010020
1-1/2	1.610	+.015020
2	2.067	+.015020
2-1/2	2.469	+.015025
3	3.068	+.015030
4	4.026	+.015035

Insert Fittings Dimensions

- G = (LAYING LENGTH) Intersection of center lines to insert bottom or thread bottom; 90° elbows, tees & crosses; ± 1/32 inch.
- $H = Intersection of center lines to end of insert or face of fitting; 90° elbows, tees & crosses; <math>\pm 1/32$ inch.
- L = Overall length of fittings; \pm 1/16 inch.
- N = (LAYING LENGTH) Insert bottom to insert bottom or thread bottom; couplings & straight adapters; ± 1/16 inch.

Dimensions of Spiral Barb Ends



Nominal	Insert		Barb	Inside
Size in.	Length	Barb	Depth	Diameter
	"P"	O.D. "Z"	"V"	"D"
	min.	max.	min.	min.
1/2	.90	.675	.055	.460
3/4	.90	.875	.055	.600
1	.96	1.105	.055	.775

STANDARDS & SPECIFICATIONS

• ASTM D 2609

Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe.



National Sanitation Foundation (NSF_®) Standard 14 Plastic Fittings for Potable Water.

Material

Dimensions of Twist Lock Coupling

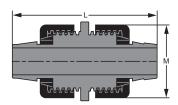
Spears® Insert Fittings are produced from PVC Type 1, Minimum Cell Classification 12454. CPVC Minimum Cell Classification 23447.

It is the users responsibility to determine the suitability for the intended service application.



PVC TWIST LOCK COUPLING

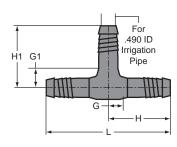
Loc Insert x Loc Insert



Part Number	Size	L	М	Approx. Wt. (Lbs.)
1429TL-005	1/2	3-3/16	1-1/16	.05
1429TL-007	3/4	3-3/16	1-5/16	.08
1429TL-010	1	3-3/16	1-5/8	.11

PVC SPIRAL BARB TEE

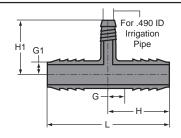
3/8" Spiral Barb x 3/8" Spiral Barb x 3/8" Spiral Barb



Part Number	Size	G	G1	Н	H1	L	Approx. Wt. (Lbs.)
1401-003	3/8	9/16	19/32	1-25/32	1-13/16	3-9/16	.04

PVC SPIRAL BARB TEE

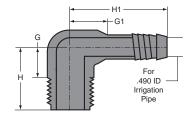
Insert x Insert x 3/8" Spiral Barb



Part Number	Size	G	G1	Н	H1	L	Approx. Wt. (Lbs.)
1401-099	3/4x3/8	17/32	9/16	2-1/32	1-27/32	4-1/32	.05
1401-129	1x3/8	11/16	7/16	2-3/16	1-31/32	4-1/8	.08

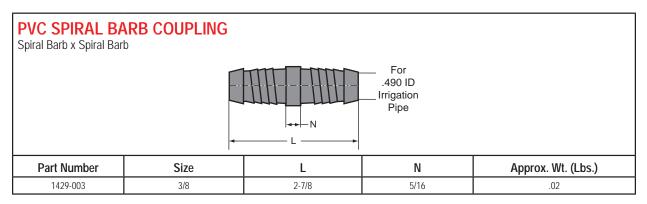
PP SPIRAL BARB 90° ELBOW

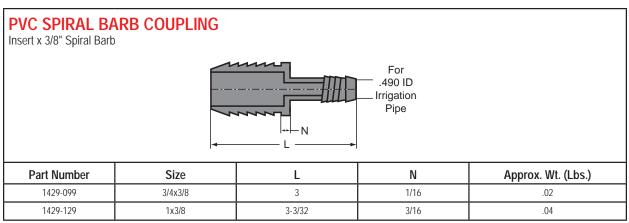
Mipt x 3/8" Spiral Barb

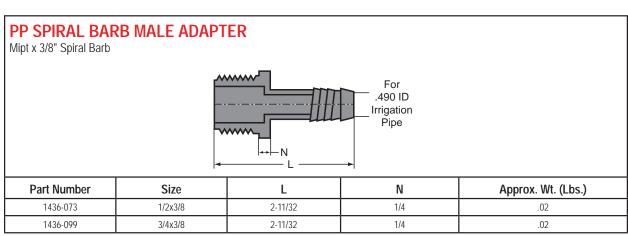


Part Number	Size	G	G1	Н	H1	Approx. Wt. (Lbs.)
1413-073	1/2x3/8	7/16	5/8	1-1/8	1-13/16	.02
1413-099	3/4x3/8	1/2	23/32	1-3/16	1-29/32	.03





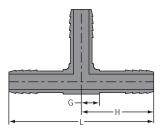






PVC TEE

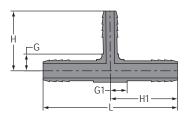
Insert x Insert x Insert



Part Number	Size	G	Н	L	Approx. Wt. (Lbs.)
1401-005	1/2	7/16	1-15/16	3-13/16	.05
1401-007	3/4	17/32	2-1/32	4-1/16	.06
1401-010	1	11/16	2-3/16	4-15/32	.10
1401-012	1-1/4	31/32	2-15/32	4-15/16	.16
1401-015	1-1/2	15/16	2-11/16	5-3/8	.22
1401-020	2	1-9/32	3-11/32	6-11/16	.43

PVC REDUCING TEE

Insert x Insert x Insert

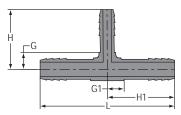


Part Number	Size	G	G1	Н	H1	L	Approx. Wt. (Lbs.)
1401-074	1/2x1/2x3/4	21/32	9/16	2-5/32	2-1/16	4-5/16	.05
1401-094	3/4x1/2x1/2	9/16	9/16	2-1/16	2-1/16	4-7/16	.06
1401-101	3/4x3/4x1/2	17/32	17/32	2-1/32	2-1/32	4-1/16	.06
1401-102	3/4x3/4x1	11/16	5/8	2-3/16	2-1/8	4-1/4	.07
1401-124	1x3/4x1/2	9/16	9/16	2-1/16	2-1/16	4-5/32	.07
1401-125	1x3/4x3/4	21/32	9/16	2-1/8	2-1/32	4-3/32	.07
1401-130	1x1x1/2	5/8	13/32	2-1/8	1-29/32	3-27/32	.07
1401-131	1x1x3/4	21/32	21/32	2-5/32	2-5/32	4-5/16	.09
1401-132	1x1x1-1/4	21/32	13/16	2-5/16	2-5/16	4-21/32	.12
1401-156	1-1/4x1x1/2	9/16	21/32	2-1/16	2-5/32	4-7/16	.10
1401-157	1-1/4x1x3/4	21/32	21/32	2-5/32	2-5/32	4-3/8	.11
1401-158	1-1/4x1x1	3/4	23/32	2-1/4	2-7/32	4-1/2	.14
1401-166	1-1/4x1-1/4x1/2	9/16	23/32	2-1/16	2-7/32	4-1/8	.09
1401-167	1-1/4x1-1/4x3/4	27/32	29/32	2-11/32	2-13/32	4-11/16	.13
1401-168	1-1/4x1-1/4x1	13/16	11/16	2-5/16	2-3/16	4-5/8	.14
1401-201	1-1/2x1-1/4x3/4	21/32	1-1/16	2-13/32	2-9/16	4-9/16	.15



PVC REDUCING TEE (continued)

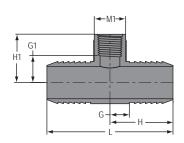
Insert x Insert x Insert



Part Number	Size	G	G1	Н	H1	L	Approx. Wt. (Lbs.)
1401-202	1-1/2x1-1/4x1	3/4	1-3/32	2-1/2	2-19/32	4-3/4	.16
1401-203	1-1/2x1-1/4x1-1/4	15/16	1-1/16	2-11/16	2-9/16	5-1/8	.18
1401-209	1-1/2x1-1/2x1/2	11/16	9/16	2-5/16	2-5/16	4-5/8	.14
1401-210	1-1/2x1-1/2x3/4	21/32	1-1/16	2-13/32	2-9/16	4-13/16	.17
1401-211	1-1/2x1-1/2x1	3/4	1-1/16	2-1/2	2-9/16	5	.17
1401-212	1-1/2x1-1/2x1-1/4	15/16	1-1/16	2-11/16	2-9/16	5-3/8	.20
1401-241	2x1-1/2x1-1/2	1-1/16	1-1/2	2-13/16	3	5-5/8	.27
1401-247	2x2x1/2	1/2	1-5/16	2-1/4	2-7/8	4-9/16	.20
1401-248	2x2x3/4	21/32	1-11/32	2-13/32	2-25/32	4-25/32	.21
1401-249	2x2x1	3/4	1-9/32	2-1/2	2-25/32	5	.22
1401-250	2x2x1-1/4	15/16	1-9/32	2-11/16	2-25/32	5-3/8	.25
1401-251	2x2x1-1/2	1-1/16	13/16	2-13/16	3	5-5/8	.28
1401-338*	3x3x2	3-5/8	3-3/4	5-3/8	6-1/32	12-1/16	2.44

PVC TEE

Insert x Insert x Fipt

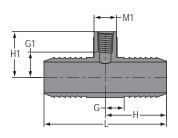


Part Number	Size	G	G1	Н	H1	L	M1	Approx. Wt. (Lbs.)
1402-005	1/2	17/32	5/16	2-1/32	1-1/32	4-1/16	1	.05
1402-007	3/4	21/32	13/32	2-5/32	1-1/8	4-5/16	1-1/4	.07
1402-010	1	13/16	17/32	2-9/32	1-7/16	4-19/32	1-1/2	.12
1402-012	1-1/4	1-1/8	11/16	2-5/8	1-11/16	5-1/4	2	.21
1402-015	1-1/2	1-1/4	27/32	3	1-27/32	6	2-1/4	.28
1402-020	2	1-3/8	1-1/16	3-1/8	2-1/8	6-1/4	2-3/4	.42



PVC REDUCING TEE

Insert x Insert x Fipt

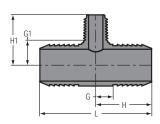


Part Number	Size	G	G1	Н	H1	L	M1	Approx. Wt. (Lbs.)
1402-094	3/4x1/2x1/2	5/8	13/32	2-1/8	1-5/32	4-5/16	1-3/32	.07
1402-101	3/4x3/4x1/2	3/4	7/16	2-3/16	1-1/4	4-1/8	1-1/16	.06
1402-124	1x3/4x1/2	23/32	17/32	2-7/32	1-9/32	4-7/16	1-3/32	.10
1402-125	1x3/4x3/4	27/32	15/32	2-11/32	1-9/32	4-11/16	1-5/16	.12
1402-130	1x1x1/2	17/32	1/2	2-1/32	1-7/32	4-1/16	1	.08
1402-131	1x1x3/4	21/32	1/2	2-5/32	1-1/4	4-9/32	1-7/32	.09
1402-156	1-1/4x1x1/2	11/16	11/16	2-3/16	1-7/16	4-3/8	1-1/16	.14
1402-157	1-1/4x1x3/4	25/32	21/32	2-9/32	1-15/32	4-17/32	1-5/16	.16
1402-166	1-1/4x1-1/4x1/2	21/32	21/32	2-5/32	1-7/16	4-5/16	1-1/8	.14
1402-167	1-1/4x1-1/4x3/4	25/32	21/32	2-9/32	1-15/32	4-9/16	1-13/32	.15
1402-168	1-1/4x1-1/4x1	15/16	3/4	2-7/16	1-5/8	4-7/8	1-5/8	.17
1402-199	1-1/2x1-1/4x1/2	21/32	3/4	2-9/32	1-1/2	4-9/16	1-3/16	.17
1402-201	1-1/2x1-1/4x3/4	13/16	11/16	2-9/16	1-1/2	4-13/16	1-5/16	.19
1402-202	1-1/2x1-1/4x1	1	25/32	2-3/4	1-25/32	5-3/32	1-5/8	.22
1402-209	1-1/2x1-1/2x1/2	21/32	25/32	2-13/32	1-17/32	4-13/16	1-3/16	.17
1402-210	1-1/2x1-1/2x3/4	13/16	25/32	2-9/16	1-9/16	5-1/8	1-3/8	.19
1402-211	1-1/2x1-1/2x1	15/16	25/32	2-11/16	1-3/4	5-3/8	1-21/32	.22
1402-212	1-1/2x1-1/2x1-1/4	29/32	5/8	2-21/32	1-5/8	5-23/32	2	.26
1402-247	2x2x1/2	13/16	1-3/16	2-5/16	2-1/16	4-7/8	1-1/16	.24
1402-248	2x2x3/4	11/16	1	2-7/16	1-7/8	5-1/16	1-5/16	.26
1402-249	2x2x1	15/16	31/32	2-11/16	2	5-11/32	1-23/32	.30
1402-251	2x2x1-1/2	1-1/4	31/32	3	2	6	2-1/4	.38



PVC TEE

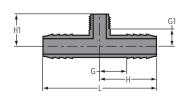
Insert x Insert x Mipt



Part Number	Size	G	G1	Н	H1	L	Approx. Wt. (Lbs.)
1403-005	1/2	9/16	21/32	2-1/16	1-9/32	4-1/8	.04
1403-007	3/4	5/8	13/16	2-5/32	1-7/16	4-5/16	.06
1403-010	1	11/16	11/16	2-3/16	1-5/8	4-3/8	.10
1403-012	1-1/4	15/16	1-1/16	2-7/16	2-1/16	4-7/8	.17
1403-015	1-1/2	1	1-3/16	2-13/16	2-3/16	5-5/8	.22
1403-020	2	1-5/16	1-7/16	3-1/16	2-15/32	6-3/32	.32

PVC REDUCING TEE

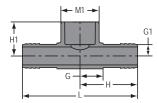
Insert x Insert x Mipt



Part Number	Size	G	G1	Н	H1	L	Approx. Wt. (Lbs.)
1403-130	1x1x1/2	11/16	23/32	2-3/16	1-3/8	4-3/8	.08
1403-131	1x1x3/4	11/16	11/16	2-3/16	1-13/32	4-3/8	.09

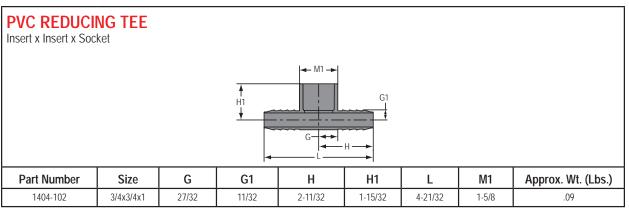
PVC TEE

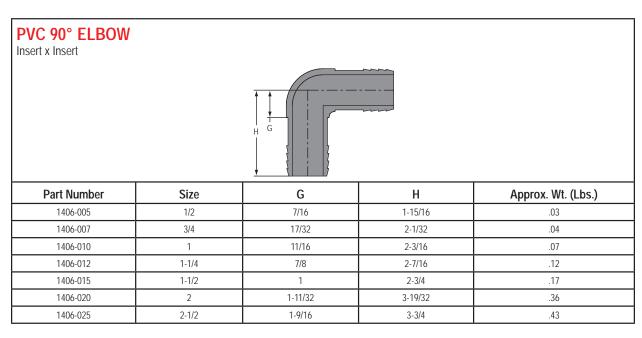
Insert x Insert x Socket

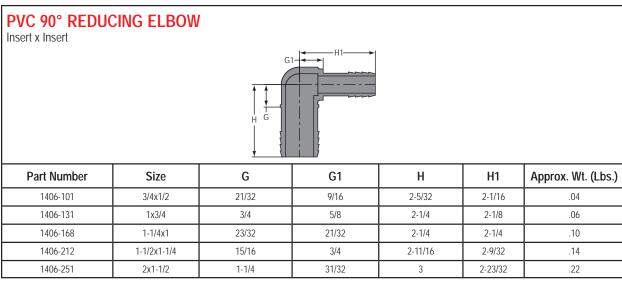


Part Number	Size	G	G1	Н	H1	L	M1	Approx. Wt. (Lbs.)
1404-010	1	1	15/32	2-1/2	1-15/32	5	1-5/8	.15





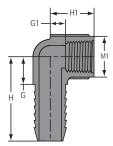






PVC 90° ELBOW

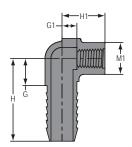
Insert x Fipt



Part Number	Size	G	G1	Н	H1	M1	Approx. Wt. (Lbs.)
1407-005	1/2	11/16	5/16	2-1/8	1	1-1/16	.04
1407-007	3/4	27/32	13/32	2-1/4	1-3/32	1-9/32	.06
1407-010	1	15/16	3/8	2-3/8	1-3/8	1-19/32	.11
1407-012	1-1/4	1-3/32	3/4	2-19/32	1-3/4	2	.18
1407-015	1-1/2	1-1/4	7/8	3	1-7/8	2-1/4	.24
1407-020	2	1-15/32	1-1/16	3-7/32	2-1/8	2-27/32	.35

PVC 90° REDUCING ELBOW

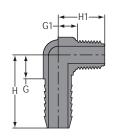
Insert x Fipt



Part Number	Size	G	G1	Н	H1	M1	Approx. Wt. (Lbs.)
1407-074	1/2x3/4	13/16	3/8	2-5/16	1-1/8	1-11/32	.06
1407-101	3/4x1/2	23/32	15/32	2-7/32	1-5/32	1-3/32	.06
1407-130	1x1/2	11/16	17/32	2-3/16	1-1/4	1-1/8	.07
1407-131	1x3/4	27/32	9/16	2-11/32	1-5/16	1-5/16	.09
1407-166	1-1/4x1/2	21/32	3/4	2-5/32	1-3/8	1-3/32	.10
1407-167	1-1/4x3/4	25/32	3/4	2-9/32	1-1/2	1-5/16	.11
1407-168	1-1/4x1	15/16	11/16	2-7/16	1-21/32	1-11/16	.14
1407-211	1-1/2x1	15/16	3/4	2-11/16	1-3/4	1-5/8	.18
1407-212	1-1/2x1-1/4	1-1/8	13/16	2-7/8	1-13/16	2	.20
1407-251	2x1-1/2	1-7/32	1	2-31/32	2-1/32	2-5/16	.29



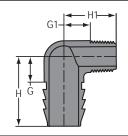
PVC 90° ELBOW Insert x Mipt



Part Number	Size	G	G1	Н	H1	Approx. Wt. (Lbs.)
1413-005	1/2	1/2	5/8	2	1-1/4	.03
1413-007	3/4	1/2	11/16	2	1-5/16	.05
1413-010	1	11/16	23/32	2-3/16	1-19/32	.07
1413-012	1-1/4	27/32	31/32	2-11/32	1-27/32	.12
1413-015	1-1/2	15/16	1-3/32	2-23/32	2-1/8	.17
1413-020	2	1-1/4	1-3/8	3	2-7/16	.24

PVC 90° REDUCING ELBOW

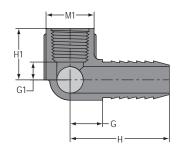
Insert x Mipt



Part Number	Size	G	G1	Н	H1	Approx. Wt. (Lbs.)
1413-055	3/8x3/4	7/16	3/4	1-1/4	1-1/2	.03
1413-101	3/4x1/2	1/2	1/2	2-1/16	1-7/32	.04
1413-130	1x1/2	23/32	3/4	2-3/16	1-11/32	.06
1413-131	1x3/4	11/16	23/32	2-5/32	1-13/32	.06

PVC SIDE OUTLET ELBOW

Insert x Insert x Fipt

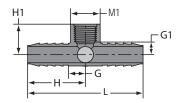


Part Number	Size	G	G1	Н	H1	M1	Approx. Wt. (Lbs.)
1414-101	3/4x3/4x1/2	5/8	13/32	2-1/8	1-1/8	1-3/32	.07
1414-130	1x1x1/2	11/16	9/16	2-3/16	1-1/4	1-5/16	.10
1414-131	1x3/4	15/16	15/32	2-9/32	1-3/16	1-5/16	.11



PVC SIDE OUTLET TEE

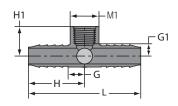
Insert x Insert x Fipt



Part Number	Size	G	G1	Н	H1	L	M1	Approx. Wt. (Lbs.)
1416-007	3/4x3/4	23/32	27/32	2-7/32	1-1/8	4-7/16	1-3/32	.08

PVC REDUCING SIDE OUTLET TEE

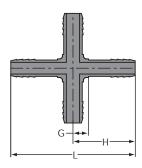
Insert x Insert x Fipt



Part Number	Size	G	G1	Н	H1	L	M1	Approx. Wt. (Lbs.)
1416-101	3/4x1/2	5/8	23/32	2-1/8	2-7/32	4-1/4	1-3/32	.08
1416-130	1x1/2	1/2	1/2	1-1/4	1-1/4	2-1/2	1-5/16	.11
1416-131	1x3/4	23/32	27/32	2-7/32	2-11/32	4-7/16	1-5/16	.12

PVC CROSS

Insert

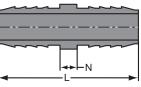


Part Number	Size	G	Н	L	Approx. Wt. (Lbs.)
1420-005	1/2	13/32	1-29/32	3-13/16	.05
1420-007	3/4	1/2	2-7/16	4-27/32	.09
1420-010	1	11/16	2-3/16	4-3/8	.12



PVC COUPLING

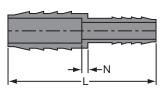
Insert x Insert



Part Number	Size	L	N	Approx. Wt. (Lbs.)
1429-005	1/2	3-1/8	1/8	.02
1429-007	3/4	3-1/8	1/4	.03
1429-010	1	3-3/16	3/16	.05
1429-012	1-1/4	3-3/16	3/16	.08
1429-015	1-1/2	3-19/32	3/32	.11
1429-020	2	3-17/32	1/16	.13
1429-025	2-1/2	4-19/32	7/32	.23
1429-030	3	4-13/16	5/16	.34
1429-040	4	6-13/32	3/8	.62
1429-060	6	7-27/32	13/32	1.65
1429-080*	8	9-7/8	3/16	3.55

PVC REDUCER COUPLING

Insert x Insert

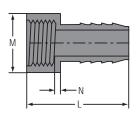


Part Number	Size	L	N	Approx. Wt. (Lbs.)
1429-101	3/4x1/2	3-1/8	1/8	.03
1429-130	1x1/2	3-1/8	1/8	.04
1429-131	1x3/4	3-3/16	3/16	.04
1429-1315	1x7/8	3-1/4	1/4	.05
1429-167	1-1/4x3/4	3-1/8	1/8	.06
1429-168	1-1/4x1	3-1/16	1/16	.06
1429-210	1-1/2x3/4	3-3/8	1/8	.09
1429-211	1-1/2x1	3-3/8	1/8	.09
1429-212	1-1/2x1-1/4	3-3/8	1/8	.09
1429-249	2x1	3-3/8	1/8	.12
1429-250	2x1-1/4	3-3/8	1/8	.13
1429-251	2x1-1/2	3-5/8	1/8	.14
1429-291	2-1/2x1-1/2	4	1/8	.17
1429-422	4x3	5-9/16	5/16	.50
1429-532	6x4	8-15/32	2-3/16	1.52



PVC & CPVC FEMALE ADAPTER

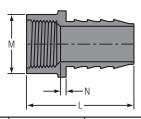
Fipt x Insert



Part N	lumber	Size L	М	N	Approx. Wt. (Lbs.)		
PVC	CPVC	Size		IVI	IV	PVC	CPVC
1435-005	1435-005C	1/2	2-13/32	1-3/16	3/16	.04	.04
1435-007	1435-007C	3/4	2-7/16	1-13/32	1/4	.05	.05
1435-010	1435-010C	1	2-9/16	1-21/32	3/16	.08	.08
1435-012	1435-012C	1-1/4	2-11/16	2-1/8	5/32	.11	.12
1435-015	1435-015C	1-1/2	3-1/16	2-5/16	3/16	.15	.17
1435-020	1435-020C	2	3	2-13/16	3/16	.19	.22

PVC REDUCING FEMALE ADAPTER

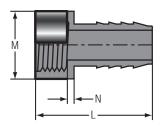
Fipt x Insert



Part Number	Size	L	М	N	Approx. Wt. (Lbs.)
1435-074	1/2x3/4	2-3/8	1-1/8	5/32	.04
1435-101	3/4x1/2	2-3/8	1-11/32	5/32	.04
1435-102	3/4x1	2-3/8	1-5/16	5/32	.05

PVC SPECIAL REINFORCED FEMALE ADAPTER

SR Fipt x Insert



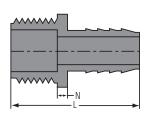
Part Number	Size	L	М	N	Approx. Wt. (Lbs.)
1435-005SR	1/2	2-7/16	1-3/32	9/32	.03
1435-007SR	3/4	2-7/16	1-13/32	1/4	.05
1435-010SR	1	2-5/8	1-23/32	1/4	.08



PVC FEMALE HOSE ADAPTER Female Hose Thread x Insert Part Number Size L M N Approx. Wt. (Lbs.) 1435-007FHT 3/4 2-7/16 1-13/32 7/16 .05

PVC & CPVC MALE ADAPTER

Mipt x Insert



Part N	umber	Cina		N.	Approx.	Wt. (Lbs.)
PVC	CPVC	- Size	L	N	PVC	CPVC
1436-002		1/4	1-19/32	5/32	.01	
1436-005	1436-005C	1/2	2-13/32	1/4	.02	.03
1436-007	1436-007C	3/4	2-7/16	1/4	.04	.05
1436-010	1436-010C	1	2-5/8	1/4	.06	.07
1436-012	1436-012C	1-1/4	2-9/16	3/16	.04	.06
1436-015	1436-015C	1-1/2	2-31/32	5/16	.12	.14
1436-020	1436-020C	2	2-13/16	1/8	.16	.18
1436-025		2-1/2	4-3/16	7/16	.33	
1436-030	1436-030C	3	4-9/32	13/32	.47	.48
1436-040	1436-040C	4	5-1/4	3/8	.76	.84



PVC & CPVC REDUCING MALE ADAPTER

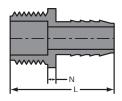
Mipt x Insert



Part Number		C'-			Approx. \	Wt. (Lbs.)
PVC	CPVC	Size	L	N	PVC	CPVC
1436-074	1436-074C	1/2x3/4	2-5/16	1/8	.03	.03
1436-075		1/2x1	2-5/8	7/16	.05	
1436-101	1436-101C	3/4x1/2	2-5/16	1/8	.03	.04
1436-102		3/4x1	2-9/16	1/4	.04	
1436-131		1x3/4	2-9/16	3/16	.06	
1436-132		1x1-1/4	2-5/8	1/4	.07	
1436-133		1x1-1/2	3-1/16	5/16	.11	
1436-167		1-1/4x3/4	2-25/32	9/32	.08	
1436-168		1-1/4x1	2-25/32	9/32	.09	
1436-169		1-1/4x1-1/2	3-1/16	5/16	.11	
1436-211		1-1/2x1	2-13/16	5/16	.11	
1436-212	1436-212C	1-1/2x1-1/4	2-27/32	11/32	.12	.13
1436-213		1-1/2x2	3-3/32	5/16	.14	
1436-251		2x1-1/2	3-7/32	13/32	.18	

PVC HOSE ADAPTER

Male Hose Thread x Insert



Part Number	Size	L	N	Approx. Wt. (Lbs.)
1436-007MHT	1436-007MHT 3/4		7/32	.03



1436-102MHT

3/4x1

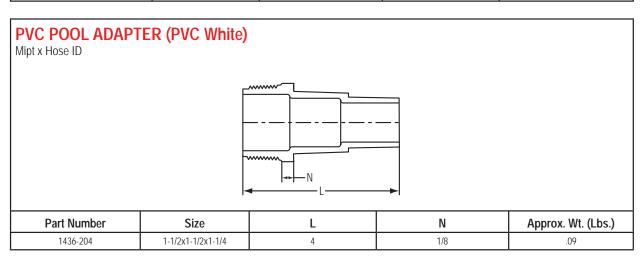
PVC & PP INSERT FITTINGS FOR USE WITH POLYETHYLENE PIPE

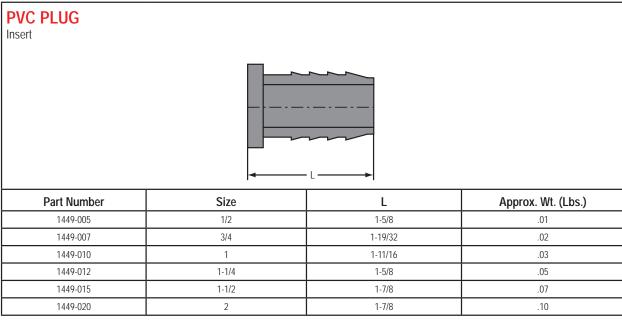
PVC REDUCING HOSE ADAPTER Male Hose Thread x Insert Male Hose Thread x Insert Part Number Size L N Approx. Wt. (Lbs.) 1436-101MHT 3/4x1/2 2-3/8 7/32 .03

2-3/8

7/32

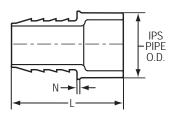
.04







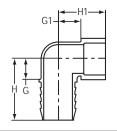
SPIGOT ADAPTER (PVC WHITE) Insert x I.P.S. Spigot



Part Number	Size	L	N	Approx. Wt. (Lb
460-005	1/2	2-7/16	7/32	.03
460-007	3/4	2-23/32	7/32	.04
460-010	1	2-9/16	1/16	.07
460-012	1-1/4	3-1/32	1/4	.11
460-012N	1-1/4	3	9/32	.11
460-015	1-1/2	3-5/16	5/16	.14
460-020	2	3-1/2	3/8	.20
460-030	3	4-11/16	7/16	.58
460-040	4	5-11/32	5/16	.73

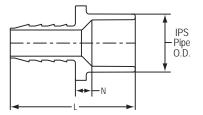
INSERT ADAPTER 90° ELBOW (PVC WHITE)

Insert x Spigot



Part Number	Size	G	G1	Н	H1	Approx. Wt. (Lbs.)
460A-015	1-1/2	1	1	2-5/32	2-3/16	.18

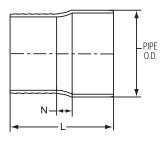
REDUCING SPIGOT ADAPTER (PVC WHITE)Insert x Spigot (Socket)



Part Number	Size	L	N	Approx. Wt. (Lbs.)
460-131N	3/4x1x3/4	2-7/8	5/8	.07
460-132N	1x1-1/4x1	3	5/16	.10
N = Nested				



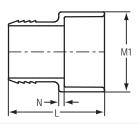
SPIGOT ADAPTER (PVC WHITE)Insert x Spigot



Part Number	Size	L	N	Approx. Wt. (Lbs.)
1432-060	6	7-27/32	1	1.69
1432-080*	8	9-7/8	5/8	5.23

*Fabricated

SOCKET ADAPTER (PVC WHITE) Insert x Socket



Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
474-005	1/2	2-3/8	1-1/16	1/8	.03
474-007	3/4	2-7/16	1-5/16	5/32	.05
474-010	1	2-5/8	1-5/8	1/8	.07
474-012	1-1/4	2-11/16	2	3/16	.10
474-015	1-1/2	3-1/16	2-1/4	3/16	.14
474-020	2	3	2-11/16	3/16	.17
474-030	3	4-3/4	4	5/16	.51
474-040	4	5-5/8	5	3/8	.81