

## ABS-DWV Fittings

### ABS/DWV Service Weight Pipe

Schedule 30



Single step solvent cementing procedures—no primer required. Excellent solvent cementing characteristics. Black. 84/Ctn.

**321669** 3" x 10'  
**320706** 3" x 20'



### Flush Bushing

**321602** 1.5" x 1.25"; 50/Ctn.  
**321616** 2" x 1.5"; 25/Ctn.  
**321603** 3" x 1.5"; 15/Ctn.  
**321617** 3" x 2"; 20/Ctn.



h x h x h

### Hub Sanitary Tee

**321612** 1.5"; 50/Ctn.  
**321618** 2"; 25/Ctn.  
**320808** 3"; 25/Ctn.  
**320817** 4"; 5/Ctn.  
**320814** 3" x 3" x 1.5"; 20/Ctn.  
**321619** 3" x 3" x 2"; 20/Ctn.

### Female Adapter



h x fpt

**321862** 1.5"; 100/Ctn.  
**321610** 3"; 35/Ctn.

### Fitting C.O. Adapter



spg x fpt

**321822** 2"; 25/Ctn.  
**321823** 3"; 25/Ctn.  
**321825** 4"; 10/Ctn.

### Pipe Increaser Reducer



h x h

**321705** 1.5" x 2"; 25/Ctn.  
**321817** 3" x 1.5"; 25/Ctn.  
**321818** 3" x 2"; 25/Ctn.  
**321819** 3" x 4"; 10/Ctn.

## ABS/DWV Foam Core Pipe

Schedule 40

Thick wall, heavy-duty black ABS foam-core pipe for rigid code requirements.



**321670** 1.5" x 20'  
**321627** 3" x 10'  
**321674** 4" x 20'  
**321672** 2" x 20'  
**321625** 3" x 20'



h x mpt

### Male Adapter

**321611** 1.5"; 50/Ctn.  
**321816** 3"; 25/Ctn.



mpt

### Cleanout Plug

**320825** 2"; 25/Ctn.  
**320812** 3"; 30/Ctn.

### Coupling



h x h

**321601** 1.5"; 100/Ctn.  
**321812** 2"; 25/Ctn.  
**320807** 3"; 48/Ctn.  
**320818** 4"; 10/Ctn.

### Cleanout Adapter w/ Plug



spg x fpt



mpt

**320815** 1.5"; 50/Ctn.  
**320819** 4"; 10/Ctn.  
**320822** 3"; 25/Ctn.



h x h

### Vent Elbow

**321846** 3"; 25/Ctn.



## 2-Way Cleanout Tee

**NEW!**

321622 3"



## FPT Sanitary Tee

320809 3" H x 3" FPT x 3" H; 25/Ctn.

h x fpt x h

## Wye

h x h x h



321836 3"

321837 2"

321838 1-1/2"

## 1/4 Bend Street



spg x h

320920 3"; 20/Ctn.

## 1/16 Bend



h x h

320799 3"; 30/Ctn.

## 1/8 Bend



h x h

321604 1.5"; 50/Ctn.

320828 2"; 25/Ctn.

320816 3"; 25/Ctn.

320821 4"; 10/Ctn.

## 1/4 Bend



h x h

321605 1.5"; 50/Ctn.

321858 2"; 75/Ctn.

320810 3"; 25/Ctn.

## 1/8 Bend Street

**NEW!**



320921 3"; 20/Ctn.



h x h x h

## Long-Turn Tee

321827 1.5"; 20/Ctn.

321828 2"; 25/Ctn.

321850 3"; 15/Ctn.

321829 3" x 3" x 1-1/5"; 10/Ctn.

321830 3" x 3" x 2"; 10/Ctn.

321851 4"; 5/Ctn.



## FPT 1/4 Bend

h x fpt

320811 3" H x 3" FPT; 30/Ctn.

## Long Sweep, 1/4 Bend



h x h

320827 1.5"; 25/Ctn.

320826 3"; 25/Ctn.

320820 4"; 5/Ctn.



h x h x h x h

## Double Tee Fitting

321855 3"; 5/Ctn.



h x h x h

## Double 1/4 Bend

321857 3"; 10/Ctn.

## Double Sanitary Tee



h x h x h x h

321623 3"; 10/Ctn.

320813 3" x 3" x 2" x 1.5"; 10/Ctn.

321620 3" x 3" x 2" x 2"; 10/Ctn.

# PVC Belled Pipe

## PVC Sewer & Drain Belled Pipe

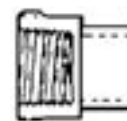


Top-quality pipe of Type 1, Grade 1 PVC, with a true 1000 lb. crush weight and .070 minimum wall thickness. PVC-S&D easily solvent welds unlike high density polyethylene pipe which will not weld.

**320700** 3" x 10'

## Female Cleanout Adapter

**320806** 3" SP x FPT; 40/Ctn.



## Cleanout Plug

**320795** 3" MPT; 30/Ctn.



## Wye

3" H x H x H; 20/Ctn.

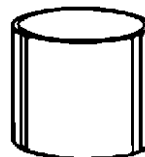
**320804**



## Coupling

Used to join straight lengths of pipe. 3" H x H 50/Ctn.

**320805**



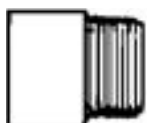
## 45° Elbow

3" H x H; 30/Ctn.

**320803**



## Male Adapter



Adapts sewer pipe to standard female pipe threads. Teflon thread tape is recommended to threaded joints. 3" Hub x MIP; 25/Ctn.

**320800**

## Reducer Coupler

4" x 3" H x H; 40/Ctn.

**321707**



## Sanitary Tee



## 1/4" Bend 90°

3" H x H; 25/Ctn.

**320802**



## 90° Street Elbow



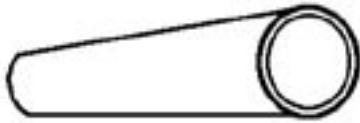
Hub x spigot. Used to change direction in piping. Sometimes called a "street quarter bend." 3"; 25/Ctn.

**320793**

Hub x hub x hub. Used to connect vertical branch line into straight sewer line. Also, used with cleanout to provide access to piping.

**320801** 3"; 15/Ctn.

# PVC-DWV Schedule 40 Pipe



## PVC-DWV Schedule 40 Pipe

Dual marked for drain, waste, and vent as well as pressure applications. NSF approved.

**321501** 1.5" x 10'  
**321525** 3" x 20'

**321502** 2" x 10'  
**321534** 4" x 20'

**321503** 3" x 10'



### 45° Street Ell

Used to change direction from a fitting hub to a pipe. Sometimes called a "street eighth bend."

**321496** 3"; 20/Ctn.  
**321526** 1.5"; 20/Ctn.

### 90° Sanitary Street Elbow



Hub x spigot. Used to change direction. Sometimes called a "street quarter bend."

**321511** 1.5"; 50/Ctn.  
**321512** 2"; 30/Ctn.  
**321523** 3"; 20/Ctn.  
**321489** 4" H x Spg

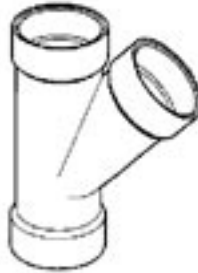
### Male Adapter



Hub x MIP. Adapts to standard female pipe threads. Teflon thread tape is recommended for threaded joints.

**321522** 1.5"; 50/Ctn.  
**321492** 3"; 25/Ctn.

### Wye



Hub x hub x hub. Used when connecting a branch line into a horizontal drain pipe. Also can be used in conjunction with a "Twist-Lok" plug to provide a cleanout in a drain pipe.

**321504** 1.5"; 50/Ctn.  
**321513** 2"; 20/Ctn.  
**321499** 3"; 10/Ctn.  
**321482** 4"; 10/Ctn.

### 22-1/2° Elbow

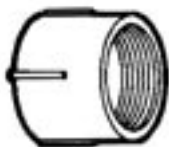


Hub x hub. Sometimes called a "sixteenth bend."

**321530** 3"

**NEW!**

### Female Adapter



Hub x FIP. Adapts to standard male pipe threads. Teflon thread tape is recommended for threaded joints.

**321524** 1.5"; 25/Ctn.  
**321493** 3"; 20/Ctn.

### 45° Elbow



Hub x hub. Used to change direction in piping. Sometimes called an "eighth bend."

**321506** 1.5"; 50/Ctn.  
**321498** 3"; 20/Ctn.  
**321487** 4"

### 90° Sanitary Elbow



Hub x hub. Used to change direction in piping. Sometimes called a "quarter bend."

**321509** 1-1/2"; 50/Ctn.  
**321510** 2"; 30/Ctn.  
**321497** 3"; 20/Ctn.  
**321488** 4"; 20/Ctn.

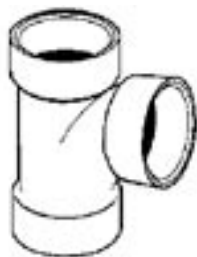
## Test Tee



With plug. Used at the base of a vertical drain pipe (stack) to provide a cleanout opening flush with the finished wall. Teflon thread tape is recommended for threaded joints.

**321484** 4"  
**321500** 3"

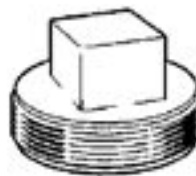
## Sanitary Tee



Hub x hub x hub. Used with connecting a branch line into a vertical drain pipe (stack).

**321508** 1.5"; 50/Ctn.  
**321507** 2"; 30/Ctn.  
**321494** 3"; 15/Ctn.  
**321810** 3" x 3" x 2"; 10/Ctn.

## Cleanout Plug



MIP. Used to form a removeable closure. These threaded plugs offer a corrosion proof alternative to metal plugs. Teflon thread tape is recommended for threaded joints.

**321491** 3"; 30/Ctn.

## Double Sanitary Tee



Hub x hub x  
hub x hub.

**321811** 3"; 10/Ctn.

**NEW!**

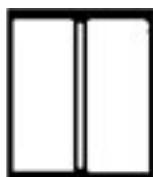
## Reducing Coupling



Hub x hub. Used to reduce or increase pipe sizes.

**321515** 3" x 1.5"; 30/Ctn.  
**321514** 3" x 2"; 25/Ctn.  
**321516** 2" x 1.5"; 30/Ctn.

## Coupling



Hub x hub. Used to join straight lengths of pipe.

**321518** 1.5"; 40/Ctn.  
**321517** 2"; 30/Ctn.  
**321490** 3"; 50/Ctn.  
**321485** 4"

## 2-Way Cleanout Tee

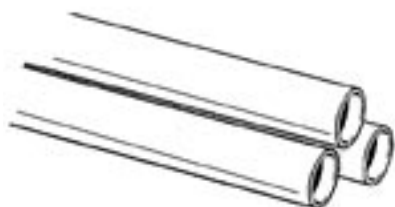


4" H x H x H. Used with a vertical pipe stack, this fitting provides for above ground level access to piping.

**321486**

## PVC Sched. 40 Pressure Pipe

### PVC Schedule 40 Pressure Pipe



NSF Approved pressure pipe w/plain end. 1/2" max working pressure at 73° F - 315 PSI. 3/4" max working pressure at 73° F - 200 PSI.

**320925** 1/2" x 20'

**320926** 3/4" x 20'



# PVC Sched. 40 Pressure (Cont.)

## Reducing Bushing



Spigot x slip. Reducing bushing inserts into fitting hub to reduce to smaller pipe size.

**320910** 3/4" x 1/2" SP x Slip; 25/Ctn.

## 45° Elbow



Slip x slip. Used to change direction in piping.

**320914** 3/4"; 25/Ctn.

## Tee



Slip x slip x slip. Used to provide a branch supply line from a main line.

**320912** 3/4"; 25/Ctn.

**320932** 1/2"; 25/Ctn.

## Coupling



Slip x slip. Used to join lengths of pipe.

**320904** 3/4" S x S; 50/Ctn.

**320927** 1/2" S x S; 50/Ctn.

## Female Adapter



Slip x FIP. Adapts Genova pressure pipe to standard male pipe threads. Teflon joint tape is recommended for threaded joints.

**320906** 3/4"; 25/Ctn.

**320928** 1/2"; 25/Ctn.

## Socket End Ball Valve



**440415** 3/4"; 10/Ctn.

**440416** 1/2"; 10/Ctn.

## 90° Elbow



Slip x slip. Used to change direction in piping.

**320916** 3/4" S x S; 25/Ctn.

**320931** 1/2" S x S; 25/Ctn.

## Check Valve



**440420** 3/4" Socket

## Male Adapter

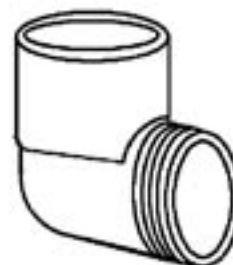


Slip x MIP. Adapts Genova pressure pipe to standard female pipe threads. Teflon joint tape is recommended for threaded joints.

**320908** 3/4"; 25/Ctn.

**320929** 1/2"; 25/Ctn.

## 90° Street Elbow



Slip x MIP. Used to change direction in piping. Adapts to standard female pipe threads. Teflon joint tape is recommended for threaded joints.

**320918** 3/4" S x MIP

## Black Iron Fittings

### Black Iron Gas Pipe Line



320950 3/4" x 10'  
320951 1/2" x 10'

### Black Iron Nipples



167101 1/2" x 3" Nipple  
167102 1/2" x 4" Nipple  
167105 3/4" x Close Nipple  
167106 3/4" x 3" Nipple  
167107 3/4" x 4" Nipple  
167108 3/4" x 6" Nipple  
167109 3/4" x 8" Nipple  
167104 3/4" x 12" Nipple

### Black Iron 90° Street Ell



167118 3/4"  
167119 1/2"

### Black Iron Reducing Coupling



167133 3/4" x 1/2"  
167134 1" x 3/4"

### Black Iron 90° Reducing Ell



167115 1/2" x 3/4"

### Black Iron 90° Ell



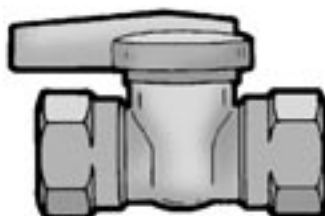
167110 1/2"  
167111 3/4"

### Black Iron Coupling



167130 1/2"  
167131 3/4"

### Black Iron Valve



167140 1/2"  
167141 3/4"

### Black Iron Tee



167125 1/2" 167126 3/4"

### Black Iron Cap



167137 1/2" 167138 3/4"

## Galvanized Fittings

### Tee



**167084** 1/2"; 40/Ctn.  
**167085** 3/4"; 20/Ctn.

**NEW!**

### Coupling



**167080** 1/2"; 60/Ctn.  
**167082** 3/4"; 50/Ctn.

### Nipple



**167090** 3/4" x 3"; 25/Ctn.  
**167092** 3/4" x 4"; 25/Ctn.  
**167093** 3/4" x Close; 25/Ctn.

### Adapter



**167072** 1/2" MPT ; 50/Ctn.  
**167073** 3/4" B X MPT

### Bell Reducer



1/2" x 3/4" FPT; 50/Ctn.  
**440301**

### Elbow



**167074** 1/2"; 50/Ctn.  
**167078** 3/4"; 35/Ctn.

## Barbed & Waterline Fittings

### Connector



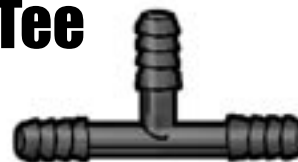
**440204** 1/2"; 25/Ctn.  
**441630** 3/4"; 10/Ctn.

### Elbow



**441638** 3/4"; 10/Ctn.  
**441643** Insert x MPT; 25/Ctn.

### Tee



**441642** 3/4"; 10/Ctn.

### Adapter



**440203** 1/2" MPT; 25/Ctn.  
**440208** 3/4" MPT; 25/Ctn.

### Pipe Hose Barbs



**441628** 3/4" x 3/4" FPT; 15/Ctn.  
**321621** 1/2" x 1/2" FPT; 25/Ctn.

### Ice Maker Tee



Flair-It tee for installing ice makers with poly pipe. Due to copper valve, use of Teflon tape is recommended.

**164374** Valve  
**164330** Tee



## 3/4" FPT Gate Valve

**440406** Plastic; 5/Ctn.  
**375308** Brass; 100/Ctn.



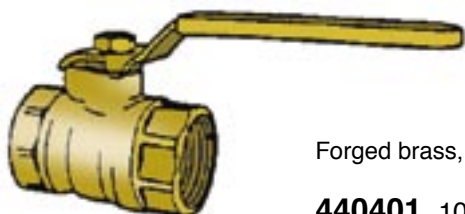
## Stop Waste Globe Valve

3/4"; 202T0A

**440650**



## Ball Valve



Forged brass, 3/4".

**440401** 10/Ctn.

## Quick Brass Disconnect

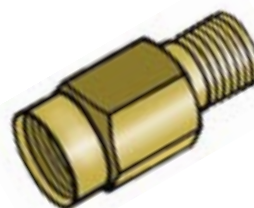
For garden hoses.

**163211**



## Boiler Drain MPT Valve

**440405** 3/4" Plastic; 10/Ctn.  
**375306** 3/4" Brass; 144/Ctn.  
**376902** 1/2" Plastic; 10/Ctn.  
**379912** 1/2" Brass; 10/Ctn.



## Check Valve

Brass with stainless steel rings. 3/4" FPT x 3/4" MPT.

**451612** 50/Ctn.

## Straight Stop



**168220** 1/2" Insert x 1/2" Insert Brass  
**168221** 3/4" Insert x 3/4" Insert Brass

## Brass Check Valve



Brass with positive O-ring seals prevent water escaping in case of pressure loss in main line. 1/2" MPT x 1/2" FPT.

**440410** 25/Ctn.

## Check Valve



Brass 200 lb. WOG (150°F), non-shock, swing check, bronze disc, threaded ends. 3/4" FPT.

**375310** 80/Ctn.

# Cash-Acme Dual Backflow Preventer



## Installation Tip:

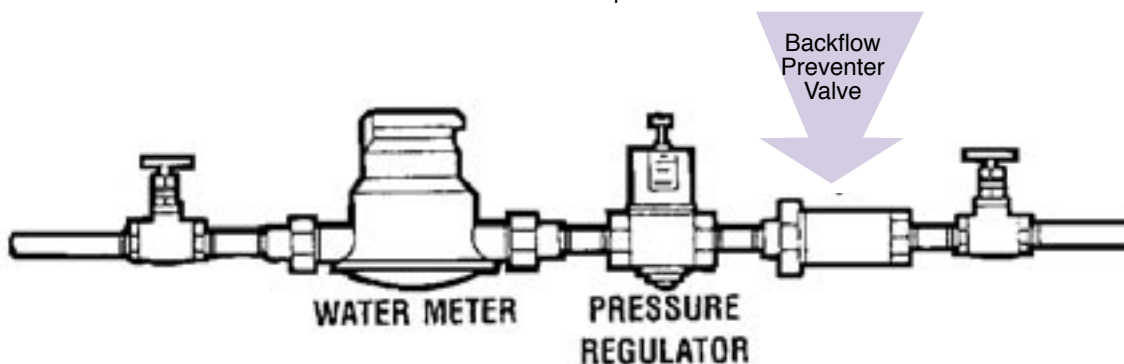
Backflow preventer valve should be installed immediately downstream of the water meter. The type BF-1 may be installed following a domestic water pressure regulator. The valve may be installed horizontally or vertically.

*Keeps polluted water from contaminating potable water by preventing reverse flow into supply lines.*

Protects the primary water system (city water supply) by providing containment at the water meter. Valves function in either horizontal or vertical position and under continuous or intermittent pressure. Maximum system pressures to 175 psi and minimum pressure of 10 psi. Temperatures from 32° F to 140° F. Maximum recommended rate of flow is 30 GPM. 3/4" valve has a female threaded union inlet and a female threaded outlet. Straight-through design minimizes pressure drop. Certified under A.S.S.E. Standard 1024.

### 440425 3/4" Type BF1

BELOW: Typical installation where inlet pressure exceeds 150 psi: the pressure regulator must be installed ahead of the dual check backflow preventer.



## NOTES

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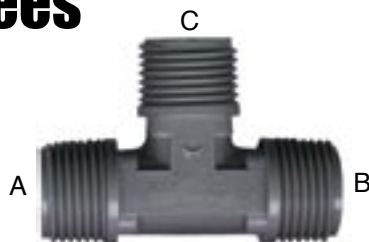
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# Qest Fittings

## Tees



A x B x C

- 166020** 1/2" x 1/2" x 1/2"; 50/Ctn.
- 166021** 3/4" x 3/4" x 1/2"; 50/Ctn.
- 166022** 3/4" x 3/4" x 3/4"; 50/Ctn.
- 166023** 3/4" x 1/2" x 3/4"; 50/Ctn.
- 166025** 3/4" x 1/2" x 1/2"; 50/Ctn.
- 166027** 1/2" x 1/2" x 3/4"; 50/Ctn.
- 167044** 1" x 1" x 1"; 10/Ctn.
- 167046** 1" x 1" x 3/4"; 10/Ctn.
- 167048** 1" x 3/4" x 1"; 10/Ctn.
- 167049** 1" x 3/4" x 1/2"; 10/Ctn.
- 167050** 1" x 3/4" x 3/4"; 10/Ctn.
- 166090** 1" x 1" x 1/2"; 10/Ctn.

## Cones



- 166055** 3/8" OD, 1/4" ID; 100/Ctn.
- 166056** 1/2" OD, 3/8" ID; 100/Ctn.
- 166057** 5/8" OD, 1/2" ID; 100/Ctn.
- 167064** 7/8" OD, 3/4" ID; 25/Ctn.

## Elbows



- \*166024** 1/2" x 1/2"; 100/Ctn.
- \*166026** 1/2" x 3/8"; 100/Ctn.
- \*166029** 3/4" X 3/4"; 50/Ctn.
- \*167052** 1" x 1"; 25/Ctn.
- \*167054** 1" x 3/4"; 25/Ctn.

\* 3/8" & 1/4" standard pipe thread adapts to pumps & appliances

Qest standard pipe threaded, compression fittings for repair or add-on to any kind of existing plumbing—galvanized, copper & CPVC.



## Nuts

- 166052** For 3/8" OD, 1/4" ID, 1/2" FPT; 100/Ctn.
- 166053** For 1/2" OD, 3/8" ID, 1/2" FPT; 100/Ctn.
- 166054** For 5/8" OD, 1/2" ID, 3/4" FPT; 100/Ctn.
- 167060** For 7/8" OD, 3/4" ID, 1" FPT; 25/Ctn.

## Male Couplings



- 166030** 1/2" x 1/2"; 100/Ctn.
- \*166033** 3/4" x 3/4"; 50/Ctn.
- \*166035** 3/4" x 1/2"; 50/Ctn.
- \*167058** 1" X 1"; 25/Ctn.
- \*167059** 1" x 3/4"; 25/Ctn.
- \*166091** 1" x 1-1/2"; 25/Ctn.

\* 3/8" & 1/4" standard pipe thread adapts to pumps & appliances

## Street Elbows



1/2" F. 50/Ctn.

- 166096** 1/2" M
- 166097** 3/4" M

## Test Caps



- 166040** 1/2" F; 100/Ctn.
- 166037** 3/4" F; 100/Ctn.

## Nut, Ring & Cone Kit



Each kit contains 100 nuts, cones & rings. Flare nuts for both 3/8" OD and 1/2" OD tubing have 1/2" thread size fittings. Flare nuts for 5/8" OD tubing have 3/4" standard pipe threads to fit 3/4" thread size fittings.

- 166070** 3/8" OD, 1/4" ID
- 166071** 1/2" OD, 3/8" ID
- 166072** 5/8" OD, 1/2" ID

## Test Plugs



- 166094** 1/2" M; 100/Ctn.
- 166095** 3/4" M; 100/Ctn.

## Drop Ear Elbows

**166098** 1/2" M x 1/2" F; 50/Ctn.  
**166099** 3/4" M x 1/2" F; 50/Ctn.



## Female Couplings



**166039** 3/4" F x 3/4" F; 50/Ctn.  
**166044** 1/2" F x 1/2" F; 100/Ctn.

## Straight Stop Valve



**440620** 1/2" F x 1/2" M; 10/Ctn.  
**440622** 1/2" M x 1/2" M; 10/Ctn.  
**166111** 3/4" M x 1/2" M; 10/Ctn.

## Drain Valve

**166112** 1/2" F x HT; 10/Ctn.  
**440626** 1/2" M x HT; 10/Ctn.  
**166113** 3/4" M x HT; 10/Ctn.



## Male/Female Adapters

**167056** 3/4" M x 1/2" F; 50/Ctn.  
**167057** 1" M x 3/4" F; 50/Ctn.

## Rings



**166058** For 3/8" OD, 1/4" ID; 100/Ctn.  
**166059** For 1/2" OD, 3/8" ID; 100/Ctn.  
**166060** For 5/8" OD, 1/2" ID; 100/Ctn.  
**167062** For 7/8" OD, 3/4" ID; 50/Ctn.

## Water Line Clamps



**166105** 5/8" OD, 1/2" ID; 100/Ctn.

## Angle Stop Valve



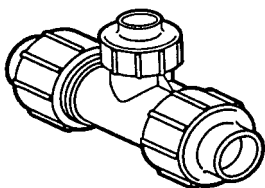
**166109** 1/2" M x 1/2" M; 10/Ctn.

## Globe Valve



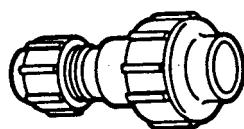
**440632** 3/4" M x 3/4" M; 10/Ctn.

## Reducing Tee



Used to provide a branch from a main line and is designed to join to PEX, copper or CPVC tubing. 3/4" ID - 7/8" OD" x 3/4" ID - 7/8" OD" x 1/2" ID - 5/8" OD; 10/Box.

**166211**



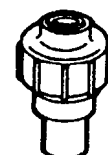
## Reducing Coupling

Joins 1/2" PEX, copper or CPVC tubing to 3/8" PEX, copper or CPVC tubing.

**166212** 1/2" ID - 5/8" OD" x 1/4" ID - 3/8" OD; 20/Box

## Reducing Assembly

Allows any fitting hub to be reduced to accept PEX, copper or PVC tubing. Used where line is reduced in size.

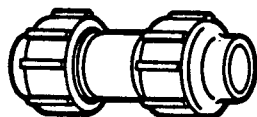


**166222** 3/4" ID - 7/8" OD" x 1/2" ID - 5/8" OD; 10/Box

**166223** 1/2" ID - 5/8" OD" x 3/8" ID - 1/2" OD; 10/Box

## Coupling

Designed to join PEX, copper or CPVC tubing.



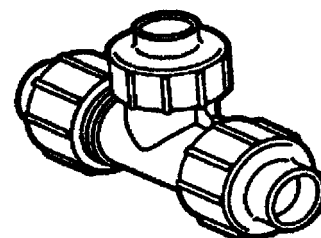
**166202** 1/4" ID - 3/8" OD"; 20/Box

**166203** 1/2" ID - 5/8" OD"; 20/Box

**166204** 3/4" ID - 7/8" OD"; 20/Box

## Tee

This fitting is used to provide a branch from a main line and is designed to join with to PEX, copper or CPVC tubing.



**166209** 1/2" ID - 5/8" OD"; 10/Box

**166210** 3/4" ID - 7/8" OD"; 10/Box

## Male Adapter



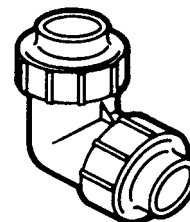
Designed to adapt from metal female pipe thread to PEX, copper or CPVC tubing on the **COLD WATER SIDE ONLY** of a hot and cold water supply system. Where hot or changing temperatures are likely, utilize the recommended Genova Universal Transition Male Adapter in conjunction with a Genova Universal Coupling. Teflon tape is the accepted method of sealing pipe threads on CPVC fittings. Do not use other materials or compounds unless specifically approved by the manufacturer.

**166207** 1/2" ID - 5/8" OD"; 20/Box

**166208** 3/4" ID - 7/8" OD"; 20/Box

## 90° Elbow

Used to change the direction in piping and is designed to join with to PEX, copper or CPVC tubing.



**166213** 1/2" ID - 5/8" OD"; 20/Box

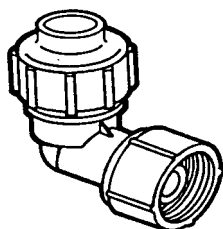
**166214** 3/4" ID - 7/8" OD"; 10/Box

## 90° Swivel Elbow

Allows a direct 90° connection between 5/8" OD PEX, copper or CPVC tubing and male running threads on faucet. Has a cone washer inside female end to achieve seal.

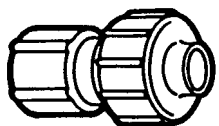
**HAND TIGHTEN ONLY!** This fitting seals by means of a gasket and the use of joint compound or Teflon tape is neither necessary nor recommended.

**166215** 1/2" ID - 5/8" OD"; 20/Box





## Female Adapter



Designed to adapt from metal male pipe thread to PEX, copper or CPVC tubing.

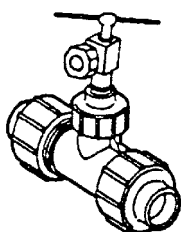
**HAND TIGHTEN ONLY!** This fitting seals by means of a gasket and the use of joint compound or Teflon tape is neither necessary nor recommended.

**166205** 1/2" ID - 5/8" OD"; 20/Box

**166206** 3/4" ID - 7/8" OD"; 20/Box

## Ice Maker Kit

Kit consists of a 5/8" OD tee and 1/4" OD valve assembly for use in hooking up any appliance served by 1/4" OD tubing.



**166220**

## Dishwasher Hookup Assembly



Includes: Tee 1/2" OD x 5/8" (166209: used to provide a branch from a main line and is designed to join with to PEX, copper or CPVC tubing) CPVC Connect Tube 5/8" OD x 3" Straight Supply Valve (166224: adapts mechanically and is used where toilet, vanity or sink water supply piping comes through the wall. Designed to join PEX, copper or CPVC tubing) Olefin Riser 3/8" OD x 1/4" ID X 60"

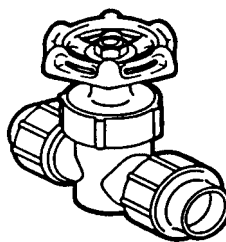
**166227**

## Replacement O Rings

**166225** Black Plastic



## Line Valve

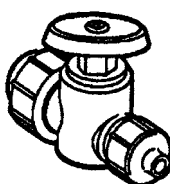


This unique valve mechanically joins water supply tubing utilizing a special locking ring and an elastomeric seal. It can be used to join PEX, copper or CPVC tubing. 10/Box.

**166200** 5/8" ID - 1/2" OD"

**166201** 3/4" ID - 7/8" OD"

## Straight Supply Valve

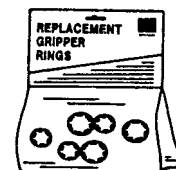


Adapts mechanically and is used where toilet, vanity or sink water supply piping comes through the wall. Designed to join PEX, copper or CPVC tubing. 10/Box.

**166224** 1/2" ID x 5/8" OD" x 1/4" ID

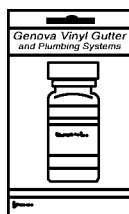
## Metal Gripper Rings

For replacement purposes in Genova's Universal Fittings. 2 gripper rings of each size are included in each bag: 1/4", 1/2", 3/4" OD; 20/Box/



**166221**

## All Purpose Seal Lubricant

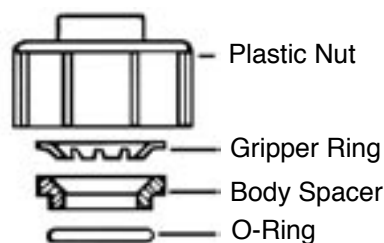


Used as a lubricant with Genova Universal fittings for ease in application. 1 oz.

**180102**

### IMPORTANT:

Note the order in which each of the component parts are installed in the Universal Fitting hand-tightened nut. Be sure all parts are present and in this order before installing.

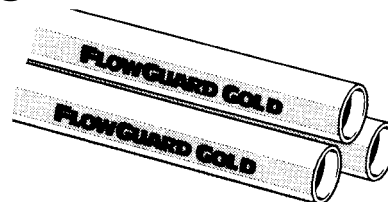


# CPVC Pipe & Fittings

## FLOWGUARD GOLD™ CPVC Pipe

FlowGuard Gold offers superior resistance to cold and 6 times the impact resistance of regular CPVC. Manufactured for use with CPVC CTS fittings for hot or cold water applications. Complies with ASTM D2846. Working pressure: 100 psi at 180°, 400 psi at 73°F.

**NOTICE:** CPVC pipe must not be stored in direct sunlight. CPVC pipe stored outdoors must be placed under cover. When installed outdoors, it must be protected, at the very least, by the application of latex paint.



166125 1/2" x 10'

166126 3/4" x 10'

### Tees



166117 1/2"

166118 3/4"

### Reducing Tees



166119 3/4" x 1/2" x 1/2"

166120 3/4" x 3/4" x 1/2"



### 45° Elbows

166133 3/4"

### Couplings



166121 1/2"

166122 3/4"

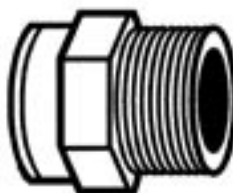
### 90° Elbows



166115 1/2"

166116 3/4"

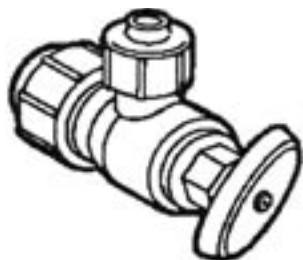
### Male Adapter



166101 1/2"

166124 3/4"

### Stop Angle Valve



CPVC x OD Compression

166130 1/2" x 3/8"

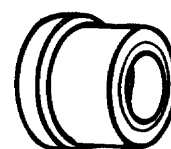
### Female Adapter



166102 1/2"

166123 3/4"

### Reducing Bushing



Used to reduce from fitting socket to CPVC tubing.

166134 3/4" x 1/2"

## Stop & Waste



**166127** CPVC x CPVC 1/2"

**166128** CPVC x CPVC 3/4"

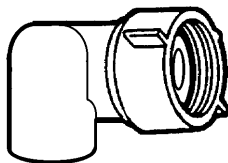
## Stop Straight Valve



CPVC x OD Compression

**166131** 1/2" x 3/8"

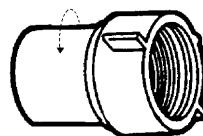
## Swivel Elbow w/Solvent Weld Socket



Allows a direct 90° connection between CPVC tubing and female running threads on faucet. Has a cone washer inside female end to achieve seal.

**166135** 1/2" x 3/4" FPT

## Swivel Adapter



**166136**

1/2" x 3/4"

## Pipe Thread Tape

**360410**



Recommended for threaded joints

### Handy Hint:



For best results, we recommend Oatey's 1-Step Cement for CPVC in general and for FlowGuard in particular. It is specially formulated to bond with FlowGuard Gold where all-purpose cements will not.

**112630** 4 oz.

**112631** 8 oz.

## WIRSBO AQUA-PEX Tubing

### Max. pressure/temperature ratings:

160 psi at 73.4°F • 100 psi at 180°F • 80 psi at 200°F

### IMPORTANT:

- ▲ **DO NOT** use AQUA-PEX where temperature and pressure consistently exceed ratings.
- ▲ **DO NOT** use or store AQUA-PEX where it will be exposed to direct sunlight for more than 30 days. If unsure of exposure time, submit a sample of tubing prior to installation.
- ▲ **NEVER** use thinners, pipe sealants, solvent cements, fluxes lubricants, bleaches or other oxidizing agents or hydrocarbons to seal or clean AQUA-PEX pipe or fittings.
- ▲ **DO NOT** apply open flame.
- ▲ **DO NOT** install within 6" of any gas appliance vents or within 12" of any recessed light fixtures.
- ▲ **DO NOT** solder within 18" of any AQUA-PEX tubing in the same water line.
- ▲ **DO NOT** use to convey natural gas.
- ▲ **DO NOT** use AQUA-PEX tubing for electrical ground.

### Features:

- ▲ Non-toxic, free of harmful lead, copper and other metal ions
- ▲ Extremely uniform product with high temperature, pressure and chemical resistance. Manufactured and listed to ASTM Standard F876 and F877.
- ▲ "Remembers" its original shape even if when kinked enough to stop flow — all you have to do is apply heat.
- ▲ Long life — a minimum of 100 years service
- ▲ Total system security — no joints behind the walls
- ▲ Equalized pressure drops minimize hot or cold surges
- ▲ Quiet — no water hammer noise
- ▲ Maintenance free
- ▲ Stands up to freezing temperatures better than any other tubing
- ▲ Competitively priced
- ▲ Insulates hot water lines



**165106** 3/4" ID x 20'

**165105** 1/2" ID x 20'

**165102** 3/4" ID x 100'

**165101** 1/2" ID x 100'

**165100** 3/8" ID x 100'

# Fail Safe Fittings for PEX

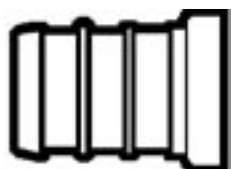
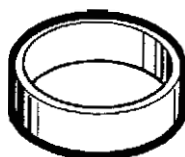
## About Fail Safe Insert Fittings:

Fail Safe components are NOT interchangeable with polybutylene or any other insert and crimp components even though they have been designed for use with the same crimp tools and gauges.

This insert and crimp system is designed to help a professional plumber make permanent, tightly sealed, leak-proof connections in a properly-functioning PEX hot and cold water distribution system or to repair any existing system.

## Black Copper Crimp Rings

- 168200** For 3/8" Tubing; 100/Ctn.  
**168201** For 1/2" Tubing; 100/Ctn.  
**168202** For 3/4" Tubing; 100/Ctn.



## Brass Test Plug

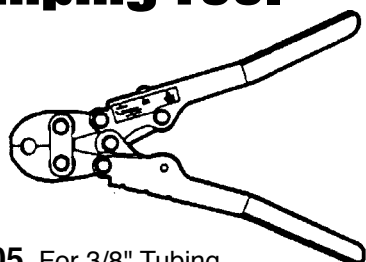
- 168223** 1/2" Insert; 100/Ctn.  
**168224** 3/4" Insert; 50/Ctn.

## Transition Couplings

- 168216** 1/2" PB x 1/2" PEX; 100/Ctn.  
**168217** 3/4" PB x 3/4" PEX; 100/Ctn.



## Crimping Tool



- 168105** For 3/8" Tubing  
**168107** For 1/2" Tubing  
**168109** For 3/4" Tubing

## Insert Tees

Insert x insert x insert.



- 168213** 3/8" x 3/8" x 3/8" Tee; 50/Ctn.  
**168214** 1/2" x 1/2" x 1/2" Tee; 25/Ctn.  
**168215** 3/4" x 3/4" x 3/4" Tee; 25/Ctn.  
**168248** 1/2" x 1/2" x 3/4" Reducer; 25/Ctn.  
**168249** 3/4" x 1/2" x 1/2" Reducer; 25/Ctn.  
**168250** 3/4" x 1/2" x 3/4" Reducer; 25/Ctn.  
**168251** 3/4" x 3/4" x 1/2" Reducer; 25/Ctn.

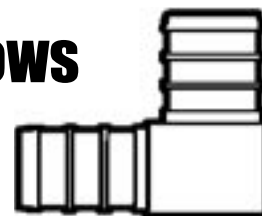
## Insert Couplers

- 168203** 3/8" x 3/8"; 100/Ctn.  
**168204** 1/2" x 3/8"; 100/Ctn.  
**168205** 1/2" x 1/2"; 100/Ctn.  
**168206** 3/4" x 1/2"; 50/Ctn.  
**168207** 3/4" x 3/4"; 50/Ctn.



## Insert Elbows

Insert x insert.



- 168208** 3/8" x 3/8" Elbow; 50/Ctn.  
**168210** 1/2" x 1/2" Elbow; 50/Ctn.  
**168211** 3/4" x 1/2" Elbow; 50/Ctn.  
**168212** 3/4" x 3/4" Elbow; 20/Ctn.

## Ferrules

100/Ctn.

**168230**

Fits 1/2" OD Riser (3/8" Nom.)

**168231**

Fits 5/8" OD (1/2" Nom.) Tubing



## Ballcock Nut



**168227**

Fits 1/4" & 3/8" Riser; 100/Ctn.

## Drop Ear Elbow

**168246**

1/2" Insert  
x 1/2" MPT;  
10/Ctn.



## Swivel Elbow



**168233**

1/2" x 1/2" FPT Brass Nut;  
25/Ctn.

## Cone Seals (Washers)



1/2" ID Lav cone. 100/Bag

**168259**

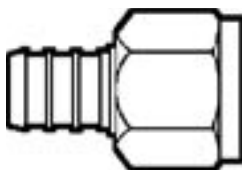
## Centerset Nuts



Fits 3/8" riser (1/2" hole). 100/Ctn.

**168226**

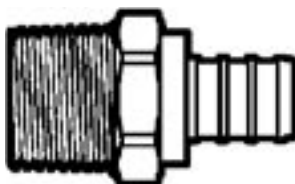
## Flare Swivel Adapters



**168235**

1/2" Insert x 1/2" Flare; 50/Ctn.

## MPT Adapters



**168236** 3/8" Insert x 1/2" MPT

**168237** 1/2" Insert x 1/2" MPT

**168238** 1/2" Insert x 3/4" MPT

**168239** 3/4" Insert x 1/2" MPT

**168240** 3/4" Insert x 3/4" MPT

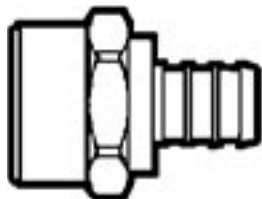
## Brass Straight Stop Valve



**168220**

1/2" insert x 1/2" insert;  
10/Ctn.

## FPT Adapters



25/Ctn.

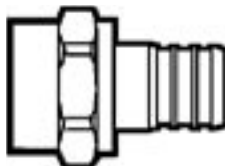
**168241** 3/8" Insert x 1/2" FPT

**168242** 1/2" Insert x 1/2" FPT

**168243** 1/2" Insert x 3/4" FPT

**168244** 3/4" Insert x 3/4" FPT

## Female Swivel Adapters



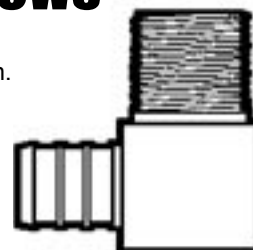
**168256** 3/4" Insert x  
3/4" FPT; 50/Ctn.

**168257** 1/2" Insert x  
1/2" FPT; 50/Ctn.

**168258** 1/2" Insert x  
1/2" Closet; 10/Pk.

## Male Thread Elbows

50/Ctn.



**168253**

3/8" Insert x 3/8" MPT

**168254**

1/2" Insert x 3/8" MPT

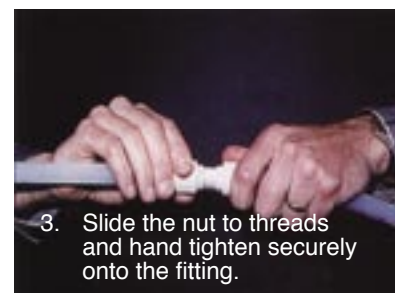
**168255**

1/2" Insert x 1/2" MPT



Throw away your crimping tools, solvent cement, torches, solder and Teflon tape—you won't need them with the Flair-It plumbing system, designed for normal hot and cold potable water applications. Extremely simple to install and reusable. Resists corrosion and scaling, with high resistance to cold temperatures. Complies with ASTM D 3309 standard.

## Installation Tips



## Replacement Parts

- |                        |                           |
|------------------------|---------------------------|
| <b>164410</b> 1/2" Nut | <b>164412</b> 1/2" Washer |
| <b>164411</b> 3/8" Nut | <b>164413</b> 3/4" Washer |

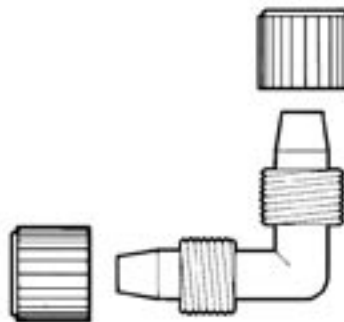


## For PEX

### Elbows

W/Flair-It connections on both ends.

- |               |                   |
|---------------|-------------------|
| <b>164300</b> | 1/2" ID x 1/2" ID |
| <b>164301</b> | 1/2" ID x 3/4" ID |
| <b>164302</b> | 3/4" ID x 3/4" ID |
| <b>164303</b> | 3/8" ID x 3/8" ID |



Flair-It connection x FPT.

- |               |                    |
|---------------|--------------------|
| <b>164305</b> | 1/2" ID x 1/2" FPT |
| <b>164306</b> | 3/4" ID x 3/4" FPT |



Flair-It connection x MPT.

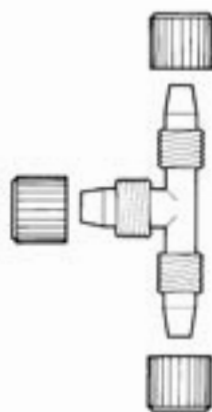
- |               |                    |
|---------------|--------------------|
| <b>164307</b> | 1/2" ID x 1/2" MPT |
| <b>164308</b> | 3/4" ID x 1/2" MPT |
| <b>164309</b> | 3/4" ID x 3/4" MPT |
| <b>164310</b> | 1/2" ID x 3/8" MPT |
| <b>164311</b> | 1/2" ID x 3/4" MPT |



### Tee

W/three Flair-It connections.

- |               | L           | x | R           | x | Inside            |
|---------------|-------------|---|-------------|---|-------------------|
| <b>164320</b> | 1/2" ID     | x | 1/2" ID     | x | 1/2" ID           |
| <b>164322</b> | 3/4" ID     | x | 1/2" ID     | x | 1/2" ID           |
| <b>164323</b> | 3/4" ID     | x | 1/2" ID     | x | 3/4" ID           |
| <b>164324</b> | 3/4" ID     | x | 3/4" ID     | x | 1/2" ID           |
| <b>164325</b> | 3/4" ID     | x | 3/4" ID     | x | 3/4" ID           |
| <b>164326</b> | 1/2" ID     | x | 1/2" ID     | x | 3/8" ID           |
| <b>164327</b> | 3/8" ID     | x | 3/8" ID     | x | 3/8" ID           |
| <b>164328</b> | 1/2" ID (L) | x | 1/2" ID (R) | x | 1/2" MPT (middle) |



### PEX Adapter

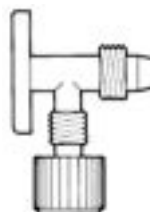


PEX adapter to gray poly pipe.

- 164415** 3/4" PB x 3/4" PEX

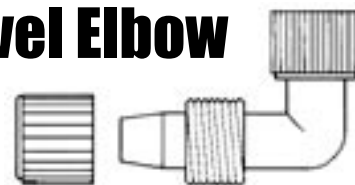
### Drain Angle Valve

A drain valve with Flair-It connections on both ends.



- |               |                   |
|---------------|-------------------|
| <b>164378</b> | 3/8" ID x 3/8" ID |
| <b>164380</b> | 1/2" ID x 1/2" ID |

### Swivel Elbow



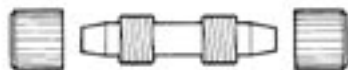
Faucet connection to Flair-It connection.

- |               |                    |
|---------------|--------------------|
| <b>164316</b> | 3/4" ID x 3/4" FPT |
| <b>164317</b> | 1/2" ID x 3/4" FPT |
| <b>164318</b> | 3/8" ID x 1/2" FPT |
| <b>164315</b> | 1/2" ID x 1/2" FPT |

### Coupling & Adapter

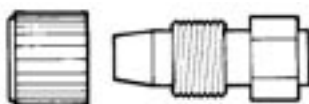
W/Flair-It connections on both ends.

- 164336** 1/2" ID x 1/2" ID
- 164337** 1/2" ID x 3/4" ID
- 164338** 3/4" ID x 3/4" ID
- 164339** 1/2" ID x 3/8" ID
- 164340** 3/8" ID x 3/8" ID



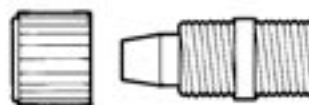
Adapters w/female pipe threads and a Flair-It connection.

- 164341** 1/2" ID x 1/2" FPT
- 164342** 3/4" ID x 3/4" FPT
- 164343** 1/2" ID x 3/8" FPT
- 164344** 1/2" ID x 3/4" FPT
- 164345** 1/2" ID x 1/8" FPT

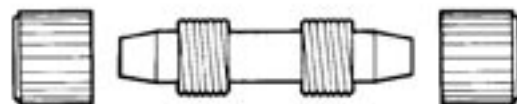


Couplings w/male pipe threads and a Flair-It connection.

- 164346** 1/2" ID x 1/2" MPT
- 164348** 1/2" ID x 3/8" MPT
- 164351** 1/2" ID x 3/4" MPT
- 164352** 3/8" ID x 1/2" MPT
- 164347** 3/4" ID x 3/4" MPT

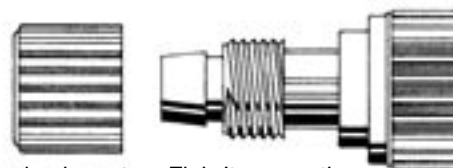


### Transition Coupling



- 164332** 3/4" Poly x 3/4" PEX

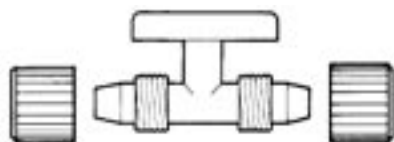
### Garden Hose Fitting



Garden hose to a Flair-It connection.

- 164350** Adap. 1/2" ID x 3/4" Male Hose
- 164360** Swivel Coupling 1/2" ID x 3/4" FPT

### Straight Stop Valve



Flair-It connections on both ends.

- 164375** 3/8" ID x 3/8" ID
- 164376** 1/2" ID x 1/2" ID

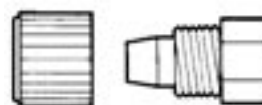
### Drop Ear Elbow



Shower & tub connection to Flair-It connection.

- 164304** 1/2" ID x 1/2" FPT

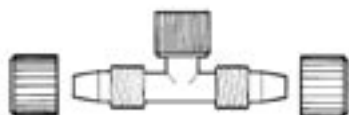
### Plug



Used to cap-off Flair-It fittings.

- 164368** 3/8" ID x 3/8" ID
- 164369** 1/2" ID x 1/2" ID
- 164370** 3/4" ID x 3/4" ID

### Swivel Tee



W/female pipe thread swivel in the middle.

- 164333** 1/2" ID x 1/2" ID x 1/2" FPT
- 164334** 1/2" ID x 1/2" ID x 3/4" FPT

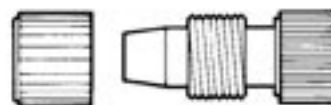
### Cap



Used to insert a plug into the end of a pipe.

- 164365** 3/8" ID x 3/8" ID
- 164366** 1/2" ID x 1/2" ID
- 164367** 3/4" ID x 3/4" ID

### Swivel Straight



Faucet connection to a Flair-It connection.

- 164356** 3/4" ID x 3/4" FPT
- 164357** 3/8" ID x 1/2" FPT
- 164358** 1/2" ID x 3/4" FPT
- 164355** 1/2" ID x 1/2" FPT

## Swivel Ballcock Adapter

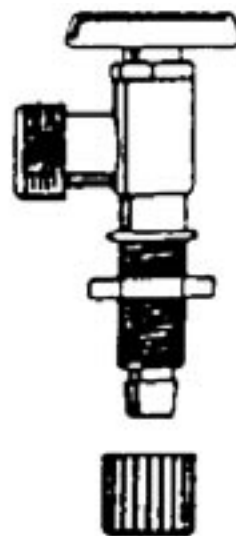


Toilet connection to a Flair-It connection.

**164359** 1/2" ID x 3/4" FPT

**164361** 3/8" ID x 3/4" FPT

## Washing Machine Valve



**164404** 1/2 ID

## Flair-It Wrench

Molded wrench allows you to reach small, hard-to-access places.



**381500** 3/8" & 1/2"

**381501** 1/2" & 3/4"

## Compression Stop Valve



**164372** 1/2" x 3/8"

## Compression Angle Valve



**164373**  
1/2" x 3/8"

## Dishwasher Hook-Up

Each kit contains one each:

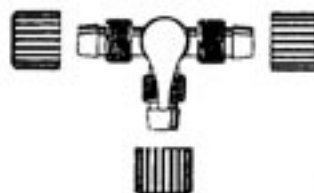
- ▼ Straight Stop Valve, 1/2" P x 1/2P"
- ▼ Male Elbow, 1/2" P x 3/8" MPT with Tapered Threads
- ▼ Tee, 1/2" P x 1/2" P x 1/2" P

**164390**

## 3-Way Valve



**164397** 1/2" P x 1/2" P x 1/2" P



**164398** 1/2" P x 1/2" MPT x 1/2" P



## Flair-It Display Board

Four color sign explaining the Flair-It system is available at no cost!

263137



## Tilt Bins

These are the same bins shown above in the Flair-It display gondola

Transparent, tilt-out multi-purpose storage system:

- freestanding or wall-mountable
- bins are removable
- bin tags included
- two sizes available
- unique interlocking design lets you mix and match rows of 4- and 5-drawer bins



263136

4 Drawers w/Tags

263135 5 Drawers with Tags

Prices and Specifications Subject to Change without Notice

## 1/2" Dealer Starter Kit

Each kit contains the following in a corrugated box:

	QTY
Tee (nuts included) .....	1/2 P x 1/2 P x 1/2 P ..... 10
Elbow (nuts included) .....	1/2 P x 1/2 P ..... 20
Coupling (nuts included) .....	1/2 P x 1/2 P ..... 20
Male Pipe Adapter (nuts included) .....	1/2 P x 1/2 MPT ..... 20
Tee (nuts included) .....	1/2 P x 1/2 P x 3/8 P ..... 10
Straight Stop Valve (nuts included) .....	1/2 P x 1/2 FPT Swivel ..... 10
Elbow Swivel (nuts included) .....	1/2 P x 1/2 FPT Swivel ..... 10
Cap .....	1/2 FPT ..... 10
Female Pipe Adapter (nuts included) .....	1/2 P x 1/2 FPT ..... 10

164383

## 3/8" Dealer Starter Kit

Each kit contains the following in a corrugated box:

	QTY
Tee (nuts included) .....	3/8 P x 3/8 P x 3/8 P ..... 10
Elbow (nuts included) .....	3/8 P x 3/8 P ..... 10
Coupling (nuts included) .....	3/8 P x 3/8 P ..... 20
Coupling (nuts included) .....	1/2 P x 3/8 P ..... 10
Male Pipe Adapter (nuts included) .....	3/8 P x 1/2 MPT ..... 10
Straight Stop Valve (nuts included) .....	3/8 P x 3/8 P ..... 10
Straight Swivel (nuts included) .....	3/8 P 1/2 FPT Swivel ..... 10
Elbow Swivel (nuts included) .....	3/8 P x 1/2 FPT Swivel ..... 10
Copper Transition .....	3/8 C x 3/8 C ..... 10

164384

## 3/4" Dealer Starter Kit

Each kit contains the following in a corrugated box:

	QTY
Elbow (nuts included) .....	3/4 P x 3/4 P ..... 20
Tee (nuts included) .....	1/2 P x 1/2 P x 3/4 P ..... 10
Tee (nuts included) .....	3/4 P x 1/2 P x 3/4 P ..... 10
Tee (nuts included) .....	3/4 P x 3/4 P x 3/4 P ..... 10
Coupling (nuts included) .....	3/4 P x 3/4 FPT Swivel ..... 10
Male Pipe Adapter (nuts included) .....	3/4 P x 13/4 MPT ..... 10
Ballcock Adapter (nuts included) .....	1/2 P x 3/4 FPT Swivel ..... 10
Coupling (nuts included) .....	3/4 P x 3/4 P ..... 10

164385

Gondola at left is not included in any of these kits.

## Mixed Dealer Starter Kit

Each kit contains the following in a corrugated box:

	QTY
Elbow .....	1/2 P x 1/2 P ..... 10
Drop Ear .....	1/2 P x 1/2 FPT ..... 10
Swivel Elbow .....	1/2 P x 1/2 FPT ..... 10
Tee .....	1/2 P x 1/2 P x 1/2 P ..... 10
Tee .....	1/2 P x 1/2 P x 3/8 P ..... 10
Coupling .....	1/2 P x 1/2 P ..... 10
Female Adapter .....	1/2 P x 1/2 FPT ..... 10
Male Adapter .....	1/2 P x 1/2 MPT ..... 10
Coupling .....	3/4 P x 1/2 P ..... 10
Swivel Straight .....	1/2 P x 1/2 FPT Sw ..... 10
Elbow .....	3/4 P x 3/4 P ..... 10
Tee .....	3/4 P x 1/2 P x 1/2 P ..... 10
Tee .....	3/4 P x 3/4 P x 1/2 P ..... 10
Tee .....	3/4 P x 3/4 P x 3/4 P ..... 10
Coupling .....	3/4 P x 3/4 P ..... 10
Ball Adapter .....	1/2 P x 3/4 BCT Sw ..... 10
Straight Valve .....	1/2 P x 1/2 P ..... 10
PB Adapter .....	3/4 P x 3/4 P ..... 10
PEX Tubing .....	3/8" x 5' ..... 10
PEX Tubing .....	1/2" x 5' ..... 10
PEX Tubing .....	3/4" x 5' ..... 10
PEX Tubing .....	1/2" x 100' ..... 1
4 Drawer Bin .....	(263136) ..... 2
5 Drawer Bin .....	(263135) ..... 2
Header Card .....	1

164386 Product as Shown on Display at Left (Gondola not included)



# Anderson Copper & Brass



## Flare Nuts, Long

160322 3/8" 160344 5/8"  
160333 1/2"



## Flare to 3/4" FHT

162321 3/8" FL



## Heavy Forged Nuts

168015 3/8"

## Flare to FPT Elbows



161235 1/2" FL x 3/4" FPT

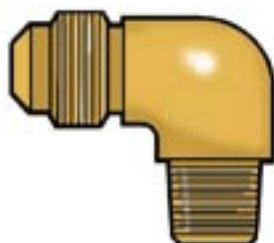


## Reducing Flare Nuts

160432 1/2" x 3/8"

## Flare/MPT Elbows

161122 3/8" x 3/8"



## Flare Sealing Caps

160221 3/8" 160232 1/2"



## Flare Plug

162407 3/8"



## Flare/Flare Unions

160522 3/8" 160533 1/2"

## Flare/Flare Elbows



161321 3/8"



## Swivel Connectors

162751 3/4" FHT x 1/2" FPT  
162752 3/4" FHT x 3/4" FPT



# Anderson Copper & Brass

## Reducing Flare Union



**160631** 1/2" x 3/8"; 25/Ctn.

## Swivel Flare Nut Couplings



**161921** 3/8" FL x 3/8" FL  
**161932** 1/2" FL x 1/2" FL

## Flare to MPT Couplings



**161022** 3/8" FL x 3/8" MPT  
**161023** 3/8" FL x 1/2" MPT  
**161024** 3/8" FL x 3/4" MPT  
**162414** 1/2" FL x 3/8" MPT  
**161036** 1/2" FL x 1/2" MPT  
**161037** 1/2" FL x 3/4" MPT

## Male Adapter Insert



**161325** 3/4"

## Flare to FPT Couplings



**162203** 5/8" FL x 3/4" FPT  
**160922** 3/8" FL x 1/2" FPT  
**160923** 3/8" FL x 3/4" FPT  
**160935** 1/2" FL x 1/2" FPT  
**160936** 1/2" FL x 3/4" FPT  
**160937** 3/4" FL x 3/4" FPT

## Flare Tee



**160721** 3/8"

## Hex Nipple



**161326** 3/4"

## Close Nipple



**161367** 3/4"

## Copper Tubing

**165121** 3/8 OD, 50'  
**165132** 1/2 OD, 50'  
**165133** 5/8 OD, 50'



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