Flair-It™

Flair-It Plus

Fittings For PEX Plumbing Systems

Flair-It™

Flair-It Plus

Compression Fittings for PEX Plumbing Systems

Revolutionary!
No Tool - No Crimp - No Sweat
For Hot and Cold Potable Water Systems

STATE OF THE ART PEX PLUMBING FOR:

RESIDENTIAL * COMMERCIAL * MANUFACTURED HOUSING

RECREATIONAL VEHICLES * MARINE

October 2000

The Flair-It Plus Catalog

Flair-It Plus

the plumbing fitting designed for professionals
who want a safe, durable and installation friendly
alternative to CPVC, copper and tool-based plumbing systems.

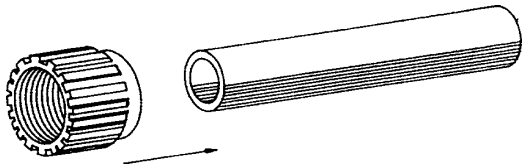
The Flair-It Method

NO glue - NO solder - NO lubricants

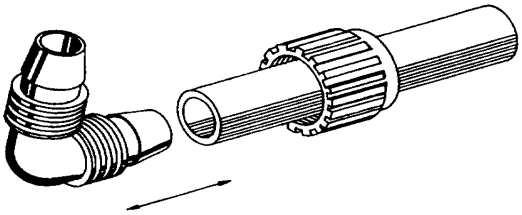
NO crimp or expander tool

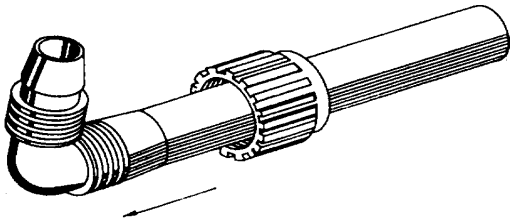
YES - It's as easy as 1- 2- 3

1. Slide nut over tubing.

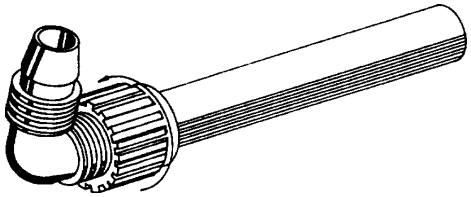


2. Firmly press tubing onto the flare of the fitting using a rocking motion until the tubing rests against the fitting.





3. Slide the nut to the threads and tighten securely onto the fitting.



With over ten years of successful plumbing experience in the RV, Marine and Manufactured Housing Industry, our fittings have proven to be an effective and reliable choice for saving time and money on any demanding plumbing job.

The merging of the patented Flair-It design and Udel® P-1700 polysulfone from BP Amoco polymers Has created a revolutionary change in plumbing.

we call it the flair-it plus fitting

For the past ten years THC has manufactured Flair-It fittings using polyacetal as the base material for our patented design.

Plumbers and designers of recreational vehicles, manufactured homes, houseboats and other potable water applications have taken advantage of our simple and easy to use fitting.

Finally a material has emerged that enables us to offer a fitting for the professional plumber to use in residential and commercial plumbing applications - *Udel® P-1700 polysulfone*

THC
Hydraulic Technology

A company dedicated to the development, manufacture and sale of Pipes, fittings, faucets and valves made with engineering resins and high quality plastics.

****

All THC products are manufactured in our industrial facility in Santiago, Chile.

****

We use only the highest quality raw materials while maintaining strict control of all production processes.

THC designs and tools all the molds used in the manufacturing processes of its products.

****

our products employ new technology developed by and patented by THC in the United States and other countries.

Each THC product line is an efficient and low-cost solution to traditional plumbing problems made possible by the use of new materials, manufacturing technologies and through years of experience in the research and monitoring of real-life installations.

In selecting Udel® P-1700 resin as the material of choice for Flair-It Plus, we have created a plumbing fitting that is designed for the demands of the 21st century.

Compatible with PEX tubing made to ASTM F876 or F877, the Plus fitting combines a patented barb-style flare tip with a compression nut that threads onto the body of the fitting - a design that works with the memory capabilities of PEX tubing to create a plumbing fitting guaranteed not to leak.

ABOUT UDEL POLYSULFONE (PLS)

UDEL polysulfone (PLS), a product of BP Amoco Polymers, has a ten-year history of success in replacing brass components in pressurized hot water plumbing applications. Fittings made from UDEL polysulfone exhibit a hydrolytic and dimensional stability, a resistance to chlorine, a long-term hydrostatic burst pressure, creep resistance and an ability to withstand extremes of freeze conditions, qualities that make Udel polysulfone ***the*** material for fittings designed for the potable water plumbing systems of the future.

The chemical structure of polysulfone is directly responsible for the excellent combination of properties that are inherent in the resins.

Polysulfone is rigid, strong and tough.

Resistant to freeze conditions

Designed for potable water

Udel Resin complies with FDA regulations for use in repeated contact with food products

Certified to NSF International Standards 14 & 61

In its natural form polysulfone is transparent. The black coloring of our PLS fittings enhances their resistance to UV rays beyond the normal exposure limits of PEX tubing. Although they should not be installed outside, Flair-It PLS fittings are designed to tolerate high extremes of temperature and pressure, and can endure conditions as low as -40 Celsius without cracking.

Tests show that Udel Polysulfone resists mineral buildup and leaches no heavy metals into drinking water.

Resistant to chlorine levels up to 30 ppm

The maximum residual disinfectant level for chlorine set by the Environmental Protection Agency for public water systems is 4mg/l.

Testing by BP Amoco on Udel® polysulfone shows that weight loss created by exposure to chlorine at levels seven times the EPA limit is less than 1%. Data is based upon labratory testing. (See Table 1)

The Flair-It Plus Advantage

A Plastic Plumbing system
That is flexible
freeze resistant
and easy to install

Plumbing fittings
that are Built to Last

Test data was provided by BP Amoco.
Udel is a registered trademark of BP amoco Polymers Inc.

Table 1.

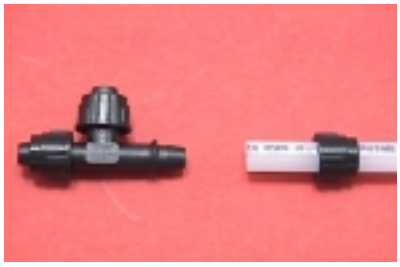
Weight loss after 1500 hours of Flowing Water Exposure at 90 Celsius in the presence of 0 and 5 ppm Chlorine.

Material	Weight Loss (%)	
Chlorine level	0ppm	5ppm
Polysulfone	0.0	0.1
20% GF Polysulfone	0.0	0.0
Polyphenylsulfone	0.5	0.2
Polyphenylsulfone Blend	0.3	-0.1
CPVC	-0.6	1.2

Flair-It Plus Plumbing System

installation guide

This guide contains the manufacturer's instructions for installation of Flair-It Plus compression fittings in hot and cold water distribution systems. Use only PEX Tubing that conforms to ASTM F876/F877 with Flair-It Fittings. Compliance with these recommendations shall constitute proper installation under the terms of the THC warranty.



Flair-It Plus fittings are a simple and installer friendly product

Three easy steps make a good connection

Step 1: Cut tubing squarely without burrs - then slide nut over tubing

Step 2: Firmly rock tubing onto flare cone of the fitting until it rests against the shoulder of the fitting

Step 3: Slide the nut to the threads and tighten securely onto fitting

*Note: Flair-It nuts do not require teflon tape, pipe dope or other sealants. When connecting male pipe threads to female pipe threads use only teflon tape. **Do not use pipe dope on Flair-It Plus fittings.**

Flair-It Plus Fittings are reusable - To disconnect a fitting

1) loosen nut and slide away from fitting

2) Grasp fitting with one hand - place other hand at joint of tubing and fitting - place thumb beneath flare barb and firmly bend upward until fitting releases from tubing

*note: If tubing has been scored or scratched during removal it may be necessary to remove 1/2″ from end of tubing

Testing Installation

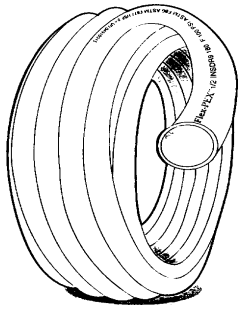
Upon completion of installation, the system should be filled and tested using only potable water for testing. Testing should be conducted according to local plumbing requirements. Pressurize to 25 psi above system working pressure, but not less than 40 psi nor greater than 225 psi. The system should, at a minimum, withstand pressure test, without leaking for a period of 15 minutes.

Flair-It Plumbing System
installation guide

PEX TUBING *an overview:*

PEX is the acronym for cross-linked polyethylene (PE). PEX tubing typically begins as high density polyethylene (HDPE) which is subjected to a process altering its molecular chain of polymers. They are cross-linked into a three dimensional network structure, changing the material from a thermoplastic to a thermoset.

Cross-linking improves the high temperature performance, chemical and stress crack resistance, creep resistance and abrasion resistance of PEX, making it ideal for high temperature applications such as hot and cold water plumbing.



Flair-It fitting are designed to equal or exceed the maximum pressure ratings of PEX tubing:

160 psi at 73.4F - 100 psi at 180F - 80 psi at 200F

Three primary methods are used in creating pex tubing. All three are capable of producing high quality pipe to be used with Flair-It. Only PEX tubing manufactured to ASTM F876/F877 should be considered for use with our fittings.

Radiation (PEX-C) is produced in a two stage process using gamma/beta energy. First PE is extruded into pipe. After the extrusion process, cross-linking of the PE is achieved by bombarding the pipe with electromagnetic radiation (gamma) or high energy electrons (beta). These processes referred to as nuclear and electron beams respectively, occur from the outside in.

Silane (PEX-B) is often referred to as “moisture cure” method because the materials cross-link or cure on exposure of the pipe to water. This process uses HDPE resin with additives that react when the pipe is exposed to heat and moisture after extrusion. Both PEX-B and PEX-C are considered cold cross-linking processes because the tubing is cross-linked after the extrusion when the tubing is below its crystalline melting point

Peroxide (PEX-A) also known as “Engel” PEX, this two stage hot cross-linking process occurs while the material is in its amorphic or ‘hot’ state. Peroxides are normally incorporated during the extrusion process and cross-linking is achieved by heating the PE above the decomposition temperature of the peroxides to create the ‘free radicals’ which initate the cross-linking.

The higher the percentage of molecules that are cross-linked the more durable and resistant to high temperatures and pressure the tubing. PEX-B is typically at 70% or below, PEX-C is 75% or less, and PEX-A is usually 80%.

Flair-It Plumbing System

installation guide

BEST-PEX:

Flair-It fittings are designed to work with all grades of PEX tubing that is manufactured to ASTM F876-F877.

Flair-It recommends Best-PEX a silane, or PEX-B.

BEST-PEX is manufactured using a cold cross linking process and provides a high degree of flexibility, is easy to install and economical - a 1/2″ FLEX-PEX tube can achieve a bend radius as tight as 3 1/2″.

Benefits of BEST-PEX:

Withstands extreme temperature - the most freeze resistant plumbing available, actually getting stronger as the temperature gets colder. The tubing has been tested to withstand freezing down to -95 F.. Should tubing ever need thawing, simply apply heat using a heat gun, the pipe will not weaken from applied heat.

Flexible, lightweight and easy to install - reduces total plumbing connections

4 times lighter, less heat loss and more resistant to corrosion than copper

Proven in long-term lab testing - life expectancy of over 100 years

Quiet, provides sound insulation against ‘water hammer’

No odor, taste, impurities or harmful chemicals

Working with Flair-It Fittings and PEX Tubing:

Do Not use Flair-It Fittings or PEX tubing to convey natural gas.
Do Not weld, apply or use adhesive tape or glue directly to PEX or Flair-It.
Do Not solder within 18″ of any PEX tubing in the same water line.
Do Not apply open flame to PEX tubing or Flair-It Fittings.
Do Not crush or damage PEX tubing or Flair-It fittings in handling or storage.
Do Not use Flair-It fittings and PEX tubing where temperature and pressure will consistently exceed manufacturers maximum ratings.
Do Not install PEX tubing or Flair-It fittings where they will come into contact with high concentrations of solvents, fuels or chemical solutions without confirming the application directly with the manufacturer.
Do Not install PEX within 6″ of a gas appliance vent or flue, or within 12″ of any recessed light fixture.
Do Not install PEX tubing where it will be exposed to direct sunlight or direct fluorescent lighting for over 30 days.
Do Protect tubing and fittings from Ultra Violet (UV) light by retaining in shipping package and storing indoors - for the purpose of UV limitations, direct exposure means in full view of either the sun or fluorescent bulb. Filtered or reflected light is considered harmless.
Do Protect tubing from abrasion. Tubing will expand and contract with changing water temperature. When installed in areas exposing tubing to abrasive surfaces (metal members, masonry walls, concrete) use plastic sleeves or grommets to protect tubing.

Flair-It Plus Plumbing System

installation guide

Installation in Wood Frame Construction

Basic guidelines for installing PEX tubing in wood frame construction are listed. Always refer to PEX tubing manufacturers installation guide before installing.

(1) Installed tubing should be protected from any possible damage. Tubing runs in danger of being pierced during construction should be safeguarded with suitable steel protector plates.

(2) Leave extra tubing at the beginning and end of runs to simplify the connection to fittings. Allow 1/8″ of longitudinal clearance per foot of run to accommodate thermal expansion. Do not pull tubing tight during installation - allow a slight dip between supports

(3) PEX tubing will expand and contract with changing water temperatures. Expansion is at an approximate rate of 1″ per degree Fahrenheit temperature change for every 100 feet of tubing.

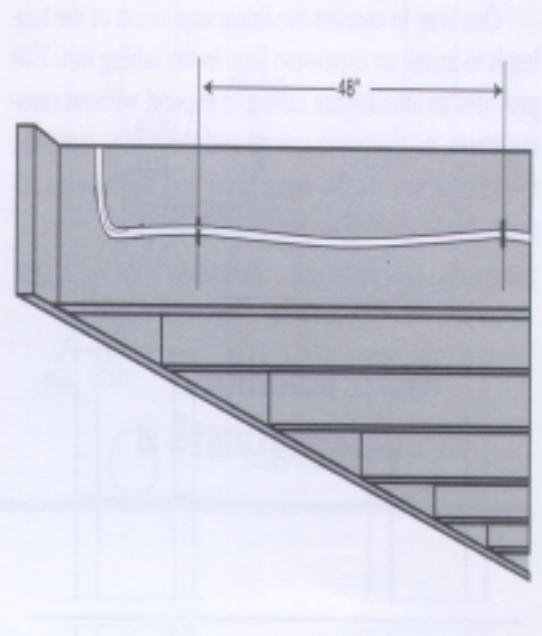
(4) Protection is not necessary for wood wall penetrations. When installed in areas exposed to abrasive surfaces use plastic sleeves or grommets to protect the tubing.

(5) Tubing installed within or under concrete slabs should be continuous lengths.

(6) Bends within 6″ of a 1/2″ Flair-It Fitting require the use of a bend support. For 3/4″ fittings support is required every 10″.

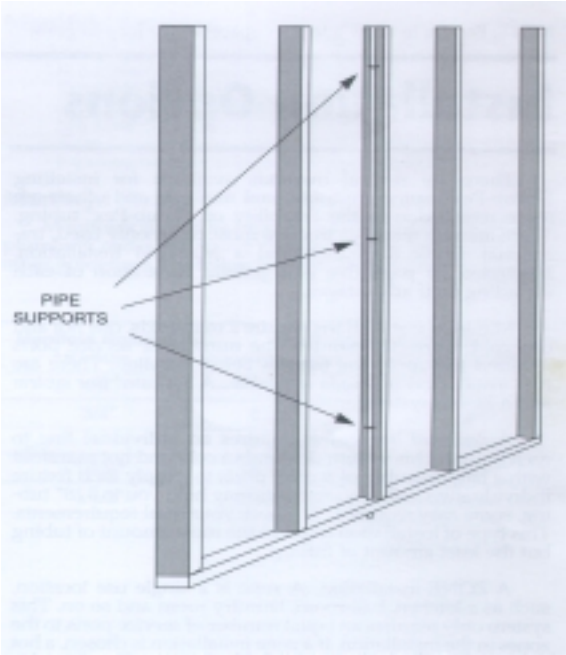
Pipe Support Spacing

PEX tubing should be anchored securely to support tubing, but relaxed enough to allow for expansio and contraction.



Along horizontal runs, install supports every 32″

Along vertical runs, install supports every 4′ at each floor and a mid story guide.



Flair-It Plus Plumbing System

Using Chemicals with Flair-It

In selecting Udel® P-1700 polysulfone (PLS) as the material for Flair-It Plus fittings, we have chosen a tough, rigid and high strength thermoplastic that is suitable for continuous use in temperatures up to 300 degrees Fahrenheit.

PLS has demonstrated a high resistance to aqueous mineral acids, alkali and salt solutions, and its tolerance to detergents and hydrocarbon oils at elevated temperatures under moderate levels of stress is good.

Numerous tests with a variety of chemicals have shown little or no adverse effect on the material's properties, but as with any material, PLS can be attacked and damaged by seemingly harmless chemicals.

Flair-It Plus fittings are designed for use in potable water systems only.

Do Not use chemicals or solvents with Flair-It Plus fittings.

For information regarding specific chemicals and solvents and their impact on polysulfone, contact a Flair-It Sales Representative.

Using Pipe Dope with Flair-It

On male to female pipe thread connections, we recommend the use of teflon tape to insure a secure seal.

Do Not use pipe dope to secure Flair-It Plus fittings

The use of Flair-It Plus fittings for application other than potable water plumbing systems will nullify any warranty associated with our fittings.

Flair-It Plumbing System

Code Compliance:

Flair-It fittings are manufactured to NSF Standard 14/61 and have been tested and are listed by IAPMO (Uniform Plumbing Code).

Plumbing Codes vary from region to region and change with the introduction of new products. Specific code requirements should be checked prior to using Flair-It fittings for installations that require adherence to local codes.

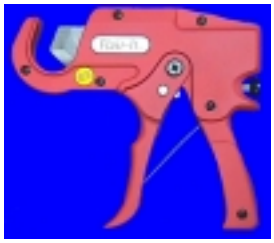
Compatibility of components:

THC supports the standardization and interchangeability of plumbing components. All fittings are developed, manufactured and tested to meet the requirements of existing PEX tubing standards ASTM F876/F877 and comply with NSF Standard 14/61 for Plastic Piping Components and Related Materials.

Flair-It fittings are designed to work with all grades of commercial PEX tubing which comply with the provisions of the Standards listed on the pipe.

Some tubing may not meet the precise tolerance of these Standards. Installers are required to confirm all dimensional tolerances when using PEX tubing other than BEST-PEX. THC will not be responsible for faulty connections made with tubing that does not comply with these standards.

Installation Accessories



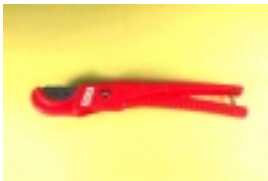
01100

10800

10375

Tubing Cutters

Part No.	Description	Size	Packaging
01175	UNIVERSAL PIPE CUTTER	Cuts up to 1” PVC	1 piece each
01100	PRO POINT CUT RATCHET CUTTER	Cuts up to 1” PVC	1 piece each
01000	REPLACEMENT BLADE FOR 01100		1 piece each
01150	PLASTIC TUBING CUTTER		1 piece each
01200	METAL TUBING CUTTER		1 piece each



01150 - 01200

01175

Tubing Bend Supports

Part No.	Description	Size	Qty.
10375	90 Deg. METAL TUBING SUPPORT	3/8”	10
10500	90 Deg. METAL TUBING SUPPORT	1/2”	10
10750	90 Deg. METAL TUBING SUPPORT	3/4”	10
10800	90 Deg. PLASTIC TUBING SUPPORT	1/2”	10

Elbows

Elbows with Flair-It connections on both ends

Part No.	Description	Size	Packaging
07800	ELBOW	1/2P x 1/2P	10 per bag
07805	ELBOW	3/4P x 1/2P	10 per bag
07806	ELBOW	3/4P x 3/4P	10 per bag

Elbows with female pipe thread and a Flair-It connection

Part No.	Description	Size	Packaging
07802	FEMALE ELBOW	1/2P x 1/2FPT	10 per bag

Elbows with male pipe thread and a Flair-It connection

Part No.	Description	Size	Packaging
07803	MALE ELBOW	1/2P x 1/2MPT	10 per bag
07810	MALE ELBOW	1/2P x 3/8MPT	10 per bag

Swivel Elbow

Faucet connection to Flair-It connection

Part No.	Description	Size	Packaging
07816	ELBOW	1/2P x 1/2FPT SWIVEL BSP	10 per bag

Tee

Tees with 3 Flair-It connections

Part No.	Description	Size	Packaging
07820	TEE	1/2P x 1/2P x 1/2P	10 per bag
07824	TEE	3/4P x 1/2P x 1/2P	10 per bag
07825	TEE	3/4P x 1/2P x 3/4P	10 per bag
07826	TEE	3/4P x 3/4P x 1/2P	10 per bag
07827	TEE	3/4P x 3/4P x 3/4P	10 per bag

Coupling and Adapters

Coupling with Flair-It connections on both ends

Part No.	Description	Size	Packaging
07840	Coupling	1/2P x 1/2P	10 per bag
07845	Coupling	3/4P x 1/2P	10 per bag
07846	Coupling	3/4P x 3/4P	10 per bag

Adapters with female threads and a Flair-It connection

Part No.	Description	Size	Packaging
07841	Female Adapter	1/2P x 1/2FPT	10 per bag
07847	Female Adapter	3/4P x 3/4FPT	10 per bag

Adapters with male threads and a Flair-It connection

Part No.	Description	Size	Packaging
07842	Male Adapter	1/2P x 1/2MPT	10 per bag
07848	Male Adapter	3/4P x 3/4MPT	10 per bag
07872	Male Adp Flex Conn.	3/4P x 3/4MPT BSP	10 per bag

Swivel Straight

A faucet connection to a Flair-It connection

Part No.	Description	Size	Packaging
07873	Coupling	1/2P x 1/2FPT Swivel BSP	10 per bag

Straight Stop Valve

An in-line valve with Flair-It connections on both ends

Part No.	Description	Size	Packaging
07880	Straight Stop Valve	1/2P x 1/2P	10 per bag

Angle Stop Valve

A 90 degree valve with Flair-It connections on both ends

Part No.	Description	Size	Packaging
07885	Angle Stop Valve	1/2P x 1/2P	10 per bag

Ice Maker Hookup Fittings

Used to connect ice maker fittings to PEX and or polybutylene tubing

Part No.	Description	Size	Packaging
15834	Ice Maker Kit (07834 & 64858)		1 per kit
07834	Ice Maker Tee without valve	1/2P x 1/2P x 1/8FPT	10 per bag
64858	Compression Needle Valve	1/8MPT x 1/4COMP	10 per bag
15978	Polyethylene	1/4”OD	100 ft. coil

F-Nut Fittings for PEX Risers & 1/4” PEX Tubing

06784

06785

06786

06787

06788

06789

06790

06881

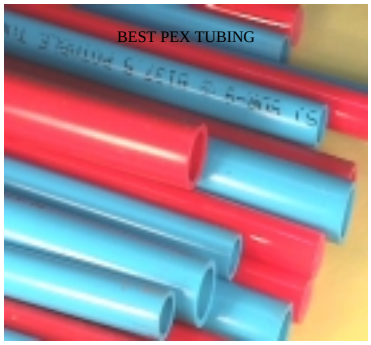
06888

06889

06784 3/8” MPT x 1/4” F-Nut
06785 1/2” FPT BSP x 1/2” MPT
06786 3/8”P x 1/4” F-Nut Elbow
06787 1/2”P x 1/4” F-Nut
06788 3/8” F-Nut x 1/4” F-Nut
06789 1/2” FPT x 1/4” F-Nut
06790 1/2”P x 1/2”P x 1/4” F-Nut Tee
06881 1/2”P x 1/4” F-Nut Straight Stop
06888 1/2”P x 1/4” F-Nut Angle Stop
06889 1/2”P x 1/2” MPT Straight Stop

F-NUT FITTINGS ARE FOR PEX TUBING ONLY. DO NOT USE WITH COPPER OR CHROME TUBING

BEST-PEX Tubing

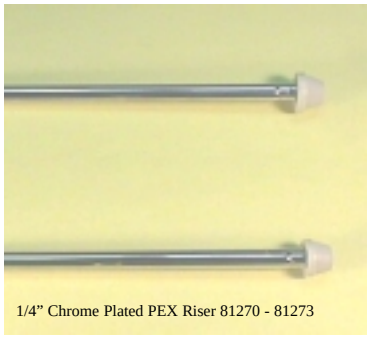


AVAILABLE IN RED AND BLUE
STRAIGHT LENGTHS AND COILS

Tubing

Part No.	Description	Size	Packaging
41260	BEST-PEX TUBING	3/8 ID - 1/2 OD - B - 5'	STRAIGHT
41262	BEST-PEX TUBING	1/2 ID - 5/8 OD - B - 5'	STRAIGHT
41264	BEST-PEX TUBING	5/8 ID - 7/8 OD - B - 5'	STRAIGHT
41266	BEST-PEX TUBING	3/8 ID - 1/2 OD - B - 10'	STRAIGHT
41268	BEST-PEX TUBING	1/2 ID - 5/8 OD - B - 10'	STRAIGHT
41270	BEST-PEX TUBING	5/8 ID - 7/8 OD - B - 10'	STRAIGHT
41272	BEST-PEX TUBING	3/8 ID - 1/2 OD - B - 20'	STRAIGHT
41274	BEST-PEX TUBING	1/2 ID - 5/8 OD - B - 20'	STRAIGHT
41276	BEST-PEX TUBING	5/8 ID - 7/8 OD - B - 20'	STRAIGHT
41278	BEST-PEX TUBING	3/8 ID - 1/2 OD - B - 100'	COIL
41280	BEST-PEX TUBING	1/2 ID - 5/8 OD - B - 100'	COIL
41282	BEST-PEX TUBING	5/8 ID - 7/8 OD - B - 100'	COIL
41261	BEST-PEX TUBING	3/8 ID - 1/2 OD - R - 5'	STRAIGHT
41263	BEST-PEX TUBING	1/2 ID - 5/8 OD - R - 5'	STRAIGHT
41265	BEST-PEX TUBING	5/8 ID - 7/8 OD - R - 5'	STRAIGHT
41267	BEST-PEX TUBING	3/8 ID - 1/2 OD - R - 10'	STRAIGHT
41269	BEST-PEX TUBING	1/2 ID - 5/8 OD - R - 10'	STRAIGHT
41271	BEST-PEX TUBING	5/8 ID - 7/8 OD - R - 10'	STRAIGHT
41273	BEST-PEX TUBING	3/8 ID - 1/2 OD - R - 20'	STRAIGHT
41275	BEST-PEX TUBING	1/2 ID - 5/8 OD - R - 20'	STRAIGHT
41277	BEST-PEX TUBING	5/8 ID - 7/8 OD - R - 20'	STRAIGHT
41279	BEST-PEX TUBING	3/8 ID - 1/2 OD - R - 100'	COIL
41281	BEST-PEX TUBING	1/2 ID - 5/8 OD - R - 100'	COIL
41283	BEST-PEX TUBING	5/8 ID - 7/8 OD - R - 100'	COIL

PEX Risers



Lavatory Risers with Nuts & Washers on both ends

Part No.	Description	Size	Packaging
81260	Riser w/Nuts & Washers	1/4" I. D. x 10"	10
81261	Riser w/Nuts & Washers	1/4" I. D. x 12"	10
81262	Riser w/Nuts & Washers	1/4" I. D. x 20"	10
81263	Riser w/Nuts & Washers	1/4" I. D. x 24"	10
81264	Riser w/Nuts & Washers	1/4" I. D. x 30"	10
81265	Riser w/Nuts & Washers	1/4" I. D. x 36"	10
81266	Riser w/Nuts & Washers	1/4" I. D. x 48"	10
81267	Riser w/Nuts & Washers	1/4" I. D. x 60"	10
81270	Chrome Plated PEX Riser	1/4" I. D. x 12" Lavatory	10
81271	Chrome Plated PEX Riser	1/4" I. D. x 20" Lavatory	10
81272	Chrome Plated PEX Riser	1/4" I. D. x 12" Toilet	10
81273	Chrome Plated PEX Riser	1/4" I. D. x 20" Toilet	10
81274	Riser w/Nuts & Washers	3/8" I. D. x 12"	10
81275	Riser w/Nuts & Washers	3/8" I. D. x 24"	10
81276	Riser w/Nuts & Washers	3/8" I. D. x 36"	10
81277	Riser w/Nuts & Washers	3/8" I. D. x 48"	10
81278	Riser w/Nuts & Washers	3/8" I. D. x 60"	10

See previous page for our F-Nut fittings and valves to use with PEX risers.

THC Hydraulic Technology
Limited Warranty
Flair-It Plus Insert Fittings

Subject to the conditions and limitations in this limited warranty, THC warrants to the real property owners and succeeding owners that Flair-It Plus fittings, when used for potable water distribution under normal conditions of use, shall be free from failure caused by manufacturing defect for a period of ten (10) years from date of installation.

The terms of this warranty are subject to the following conditions:

(a) Flair-It fittings must be installed by a licensed plumbing contractor in accordance with installation instructions provided by THC and applicable building and plumbing requirements.

(b) Flair-It fittings are designed for use with potable water systems. Damage to fittings before, during or after installation, caused by use of or exposure to unauthorized chemicals or solvents - inadequate freeze protection - exposure to water temperatures or pressure in excess of limitations set forth in THC installation instructions, shall nullify the terms of this warranty.

THC must receive notification of a claim of manufacturing defect or failure in writing within applicable warranty period and within (30) thirty days of said defect or failure. All fittings that pertain to claim must be made available to THC at owners expense for testing and determination of cause. Upon receipt of a warranty claim THC shall have (90) business days in which to determine responsibility for any claims of defects in material or workmanship and the course of action to be taken.

In the event of a failure pertaining to an installed Flair-It fitting, it is the responsibility of the property owner to obtain and pay for any repairs. Reimbursements for transportation, labor, repairs or other work related to any claims of defective materials are at the sole discretion of THC and must be authorized in writing in advance by THC.

It is agreed that the exclusive remedies issued under this limited warranty, which may include refund, replacement or repair of articles proven defective under this warranty, shall be at the option of THC.

THE ABOVE LIMITED WARRANTY IS THE FULL EXTENT OF THE EXPRESS WARRANTIES PROVIDED BY THC. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF FITNESS AND MERCHANTABILITY FOR A PARTICULAR PURPOSE. OTHER THAN THIS LIMITED WARRANTY, THC DOES NOT AUTHORIZE ANY PERSON OR FIRM TO CREATE FOR IT ANY OTHER OBLIGATION OR LIABILITY CONCERNING ITS PRODUCTS. THC FURTHER DISCLAIMS ANY RESPONSIBILITY FOR LOSSES, EXPENSES, INCONVENIENCES, SPECIAL, INDIRECT, SECONDARY, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING FROM OWNERSHIP OR USE OF THE ARTICLES SOLD HEREUNDER.

Some states do not allow the exclusion, limitation of incidental, consequential damages in certain types of transactions, so the above exclusions, or limitations may not apply to you. This limited warranty gives you specific legal rights, and you may have other rights, which vary, from state to state.

THC Hydraulic Technology
United States Distributors

Flair-It West
Division of MSI
63300 N.E. Halsey Street
Portland, OR 97213
Phone: (503) 493-2900
800 678-8002
Fax: (503) 493-2999

Flair-It Central
210 North Main
Muskogee, OK 74401
Phone: (918) 681-2700
800 842-2543
Fax: (918) 681-2701

Flair-It East
Division of ESCO
1126 Kent Street
Elkhart, IN 46514
Phone: (219) 264-4156
800 456-3726
Fax: (219) 264-4303

IAMPO LISTING on Flair-It Polysulfone Fittings – 02/01/01

FILE NO.: 3874

PRODUCT DESCRIPTION: Crosslinked Polyethylene Water Distribution Systems (PEX)

APPLICANT:
Technologia Hidraulico THC S.A.
Mar del Sur No. 7481
Barrid Industrial Padahuel
, Santiago
Chile

IDENTIFICATION:

The tubing shall be marked with the manufacturer's name or trademark, ASTM F876 and ASTM F 877 PEX, pressure rating at 180° F, nominal size, standard dimension ratio and a code number identifying the compound and the date of manufacture. The fittings shall be marked with the manufacturer's name or trademark, and ASTM F 877 and the designation 180° F. Both tubing and fittings shall be marked with the C/IAPMO™ triangular certification mark.

CHARACTERISTICS:

Crosslinked polyethylene plastic hot and cold water distribution systems made in one standard dimension ratio and intended for a maximum of 100 psi water service up to and including a maximum working temperature of 180° F. Components are comprised of tubing and/or fittings. Manufactured in compliance with ASTM F 876-97 and ASTM F 877-96a. To be installed in accordance with the manufacturer's instructions.

MODELS:

```
Polysulfone Fittings

1/2"  Elbow
1/2"  Tee
1/2"  Connector

FLAIR-IT FITTINGS:

MODEL NO.      SIZE    DESCRIPTION
7802   1/2" Pipe x 1/2"        FPT Elbow
7803   1/2" x1/2"     MPT Elbow
7805   1/2" x 3/4"    Elbow
7806   3/4"                   Elbow
7810   1/2" x 3/8"    MPT Elbow
7827   3/4"   Tee
7824   3/4" x 1/2" x 1/2"     Tee
7826   3/4" x 3/4" x 1/2"     Tee
7841   1/2" x 1/2"    FPT Coupling
7842   1/2" x 1/2"    MPT Coupling
7845   1/2" x 3/4"    Coupling
7846   3/4" x 3/4"    Coupling
7847   3/4" x 3/4"    FPT Adapter
```

Flair-It Sales

Flair-It West

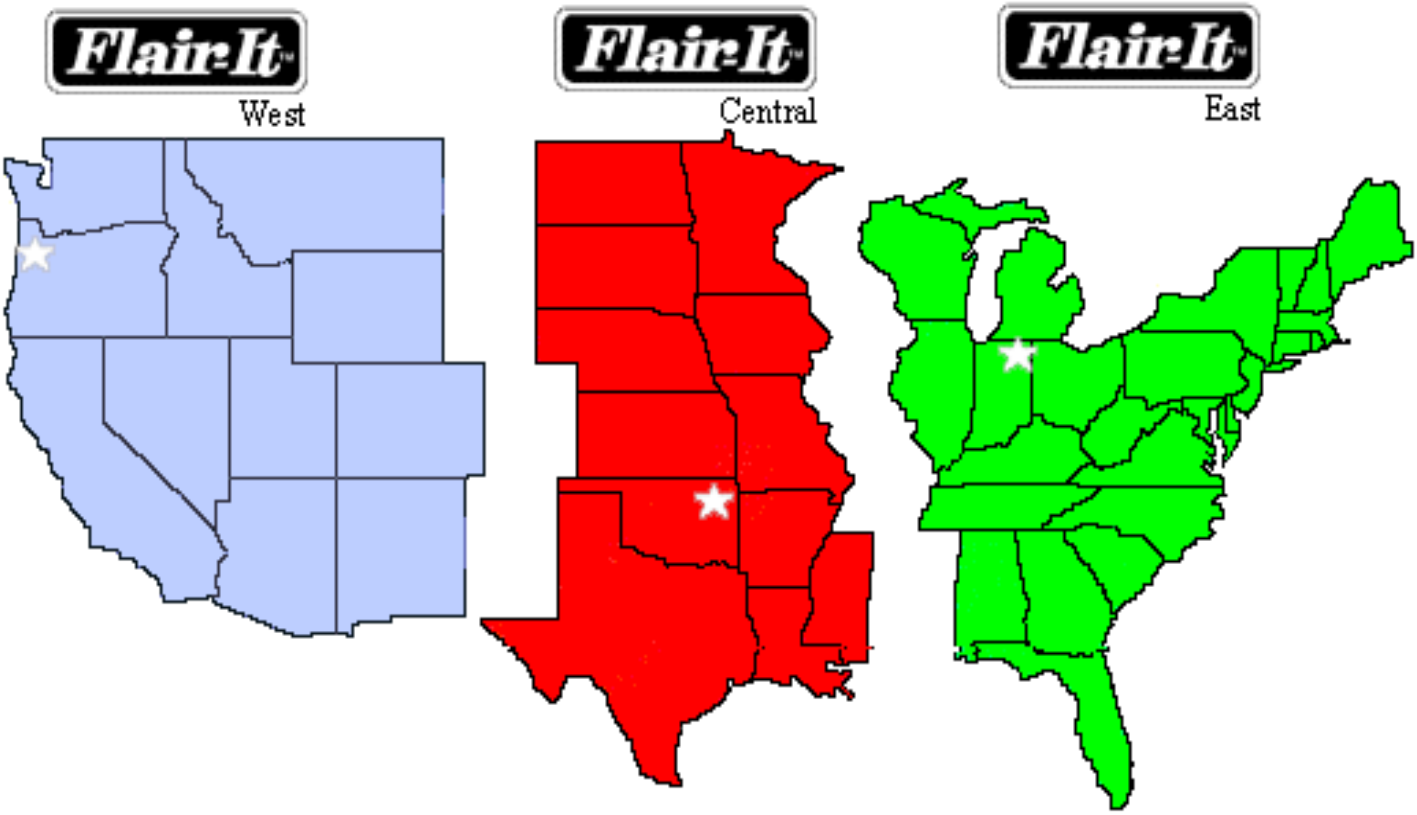
Division of MSI
63300 N.E. Halsey Street
Portland, OR 97213
Phone: (503) 493-2900
1-800-678-8002
Fax: (503) 493-2999

Flair-It Central

210 North Main
Muskogee OK 74401
Phone: (918)681-2700
1-800-842-2543
Fax: (918)681-2701

Flair-It East

Division of ESCO
1126 Kent Street
Elkhart, IN 46514
Phone: (219)264-4156
1-800-456-3726
Fax: (219) 264-4303



Visit us On The Web At
http://www.flair-it.com