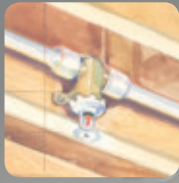




PRODUCT CATALOG

PRICING EFFECTIVE  
AUG. 18, 2008



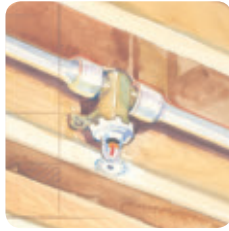
Fire Safety Systems



Plumbing Systems



Radiant Heating and Cooling Systems



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We've replaced traditional thinking with Uponor Logic. We use a clean-slate approach to products and processes, viewing them from new perspectives and applying the most current knowledge and technologies. All so you can install Uponor systems with confidence and provide comfort, safety and convenience for those who use our systems.

## Uponor Logic

Uponor Logic is built on:

- Listening
- Collaborating
- Innovating
- Testing
- Training
- Supporting
- Refining



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# How innovative thinking leads to innovative solutions.

We're excited to introduce several new products within these pages — each designed and built to bring more comfort to your customers, greater ease for your installers and bigger profits for your company. You'll also notice within these pages a phrase we've developed lately, that we feel captures our insatiable drive to bring you more great ideas — Uponor Logic. Uponor Logic takes traditional thinking and puts it on its ear.

It takes logic to a higher plane. And it starts by listening to you, the people who buy and install our products. Please know the great ideas you see on these pages and throughout the catalog are here because you spent time with us and told us what you needed and wanted.

## Multifunction Climate Cöntrol™ Hydronic Controller

Our new hydronic controller, the Multifunction Climate Cöntrol™, replaces all former Uponor pro Series mixing controls. It features Cat5 wiring, a straightforward, five-button interface and has multiple functionalities — like boiler staging, domestic hot water control, mixing, snowmelt and zone pumping. An optional data stick is available to simplify programming upgrades and system configurations even more. The Multifunction Climate Cöntrol is truly Uponor Logic at work: One choice, no confusion, easier and lower-cost installs, fewer replacement parts and simple to use. It's one of the ways your customers take control of comfort.



## proPANEL® Unit

We've completely redesigned the Uponor proPANEL® units to address customer and professional input, and add even more value to your business. The small, lightweight proPANEL® unit is easy to install and priced right. It now features a modular design that allows for easily combining proPANEL pumping and mixing units when additional heating is required. Pre-labeled receptacles connect via Cat5 cable to the Multifunction Climate Cöntrol. You'll agree it's an example of Uponor Logic and engineering excellence.



**2" Wirsbo AQUAPEX® Offering**

Uponor enhanced its plumbing line by adding 2" Wirsbo AQUAPEX® tubing and its corresponding ProPEX® fitting system. When you consider that installing Uponor 2" PEX takes about half the time of running copper, it's easy to see why Uponor is the system of choice for the residential and commercial market. Uponor produces the 2" product line in both straight lengths and coils. Uponor's 2" product line offers unique design features, integrated solutions, and is ideal for riser and water service applications.



**Pre-sleeved Tubing**

Uponor has added red and blue high-density polyethylene (HDPE) corrugated sleeves to 1/2" and 3/4" Wirsbo AQUAPEX® tubing for use in hot and cold water distribution systems. The corrugated sleeve provides protection for installations in concrete slabs or soil, and allows for easy removal and replacement of the tubing if required. In addition, the red and blue color-coded sleeves easily identify hot and cold water lines.

Available in 400-foot coils, Wirsbo AQUAPEX Pre-sleeved tubing is cost-effective, easy to install and an ideal solution for commercial high-rise and residential slab rollout applications.



Wirsbo hePEX™ plus tubing is available in long lengths in three large-diameter sizes.

**Wirsbo hePEX™ plus Tubing**

Uponor continues to expand its tubing product and now offers Wirsbo hePEX™ plus in three new ASTM sizes: 1 1/4", 1 1/2" and 2". This is the same high-quality barrier tubing compatible with both Uponor's ProPEX and QS-style fittings. As with all our tubing, it is manufactured to ASTM F876 and F877.



Pre-sleeved Tubing



### New Multi-port Tees

Uponor's new assortment of engineered plastic (EP) Multi-port Tees offers design flexibility, minimizing connections and labor. Uponor EP components are immune to corrosion, pitting and scaling, which can be associated with copper and brass components. Uponor's EP offering provides not only the highest level of performance, but also peace of mind.



### ProPEX Red Brass Adapters

Uponor also realizes the industry needs a solution for water districts and well systems with overly aggressive water. Use Uponor's ProPEX® Red Brass Adapters to transition from metal pipe to Wirsbo AQUAPEX® tubing. Red brass is generally regarded as immune to dezincification and stress-corrosion cracking, providing the highest level of protection. Realize total system savings by plumbing the entire home with Wirsbo AQUAPEX tubing and EP Multi-port Tees and fittings after the red brass metal-to-PEX transition.



### ProPEX Auto Rotation Adapter

Making ProPEX® connections is now simpler than ever, thanks to the new ProPEX Auto Rotation Adapter. Developed by Uponor, the adapter automatically rotates the expander head on each expansion to avoid creating grooves on Wirsbo AQUAPEX® tubing and Wirsbo hePEX™ plus tubing.

Fitting easily into tight installation spaces, the lightweight ProPEX Auto Rotation Adapter expands  $\frac{3}{8}$ " through 1" tubing, fits on all ProPEX Expander Tools (manual, air and battery, except for the ProPEX 200 Battery Expander Tool) and is compatible with all standard expander heads. (Note: H-heads are not compatible with the adapter.)

### Residential Fire Safety Systems

We're introducing a new way to install our AQUASAFE® Residential Fire Safety Systems. Now you have two great installation design options, network and looped, both maximize profits by minimizing connections.

- Network or looped design
- Meet 13D code requirements
- 25-year warranty
- Easily integrated into an Uponor plumbing system to increase profits

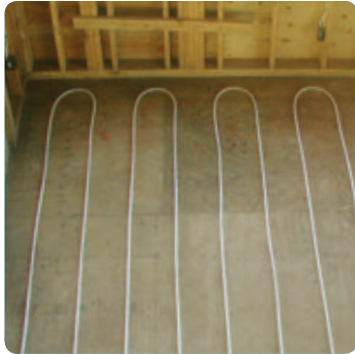
### ProPEX Ring

Uponor has improved the ProPEX  $\frac{1}{2}$ " and  $\frac{3}{4}$ " Rings, which now include a chamfer on one end, making it easier to slip the ring over Wirsbo AQUAPEX and hePEX™ plus tubing. An internal stop edge incorporated into the other side of the ring ensures proper alignment and no slip during expansion.



ProPEX Ring with bevel and stop edge

# Uponor adds flexibility to any job.



## Radiant Heating and Cooling Systems

We design radiant floor heating systems to meet the needs of new construction or remodel, from single-family to commercial. You have the option of roughing-in the tubing with our Radiant Ready™ approach for later completion. Or, target anything from cold basements to full home comfort with our complete system and controls.



## Plumbing Systems

Uponor plumbing systems feature Wirsbo AQUAPEX® PEX-a tubing. Combined with EP Multi-port Tees and fittings, Uponor plumbing systems offer design flexibility, minimize connections and labor, and are immune to the corrosion, pitting and scaling associated with copper and brass.



## Fire Safety Systems

Our AQUASAFE® residential fire safety systems work with a home's plumbing to offer state-of-the-art efficiency and reliability. Proven Uponor PEX-a tubing and ProPEX® fittings offer fast, dependable installations. So, not only will AQUASAFE systems save lives, they'll save money on installation costs too.



## Pre-insulate Pipe Systems

Uponor Ecoflex® pre-insulated PEX or HDPE piping is lightweight and flexible, installs quickly and easily and is virtually maintenance-free. With coil lengths up to 656 feet, no underground joints are needed, resulting in seamless piping runs that are highly resistive to aggressive water and soil conditions.



## Snow & Ice Melting

Uponor's radiant heating technology goes beyond indoor comfort. The durable PEX-a tubing keeps snow and ice from forming on sidewalks and driveways for residential as well as commercial applications. Many customers also extend the tubing into the garage floor for year-round comfort and safety.



## Commercial Systems

Uponor is a leading PEX supplier to the commercial market with a full array of 2" PEX-a tubing, both in Wirsbo AQUAPEX® and Wirsbo hePEX™ plus tubing. Pre-sleeved Wirsbo AQUAPEX tubing for in-slab applications is available in 1/2" and 3/4" sizes as well. These cutting-edge, sustainable systems are used in commercial plumbing, radiant heating and cooling, snow and ice melting and turf conditioning applications.

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<b>EP Valved Manifold Accessories</b>	<b>139</b>	Metal Drop Ear Bend Support	150	Brass APR to APR Ball Valve	162
EP Valved Manifold ProPEX Inlet	139	Straight-through Support	150	Brass APR to MIP Ball Valve	162
EP Valved Manifold Coupling	139	PEX Wall Support Bracket	151	<b>APR Tools and Accessories</b>	<b>163</b>
EP Valved Manifold Assembly/ Mounting Bracket	139	PEX Stand-up Bracket	151	Heavy-duty APR Ratchet Tool Kit	163
EP Valved Manifold Accessories	139	<b>Fasteners and Protectors</b>	<b>151</b>	APR Ratchet Tool Kit	163
<b>EP Valveless Manifolds</b>	<b>140</b>	PEX Rail	151	APR Ratchet Tool Jaw Set	163
EP Valveless Manifold	140	PEX Clip	151	APR Blunt Expander Tool	164
EP Flow-through Valveless Manifold	140	Tube Talon	152	APR Blunt Expander Head	164
<b>ProPEX Copper Manifolds</b>	<b>141</b>	Steel Plate Protector	152	<b>Uponor PEX Tubing Ratings, Standards, Listings and Codes</b>	<b>165</b>
ProPEX 1" Copper Branch Manifold	141	<b>Tube Handling</b>	<b>152</b>	<b>Alpha-numeric Listing</b>	<b>166</b>
ProPEX 1" Copper Branch Manifold with 3/4" ProPEX Inlet	141	Select Uncoiler	152		
		Compact Select Uncoiler	152		
		Tube Uncoiler	153		

# Climate Control™ Network System

## Climate Control Network System

Uponor's Climate Control Network System offers a variety of configuration of the main controllers that get mounted into a cabinet. See the table below to correctly identify the controls required in the main cabinet to provide the necessary functionality.

### Cabinet Functions

Part Number	Functionality
A9011000	Thermostats and Air System Functionality
A9012000	Boilers, Domestic Hot Water Tank(s) and Primary Pump
A9013000	Mixing and Snow Melting
A9014000	Zone Pumping

The Router Main Control provides connections to the Digital Zone Control Modules and other devices such as the Furnace and Air Conditioning Heat Recovery Ventilator and Zone Valve Damper control boards. The control also provides a connection to the internet for remote viewing (optional). All connections are RJ45 and use Cat5 wire to communicate to devices. The internet is not a requirement for system operation. Includes control cabinet mounting screws and power connector.

Part No.	Part Description	US List
A9011000	Router Main Control (RTR)	\$2,095.00

### Network Router Main Control (RTR)



The Primary Equipment Control (PEC) provides connections to the boiler(s), primary pump, domestic hot water tanks, outdoor sensor and an option system sensor. All connections are RJ45 and require the use of a Cat5 wire for the Primary Equipment Control (PEC) to communicate with the other devices. Includes control cabinet mounting screws and power and communication cable with plugs to interconnect controls.

Part No.	Part Description	US List
A9012000	Primary Equipment Control (PEC)	\$1,145.00

### Network Primary Equipment Control (PEC)



# Climate Cōntrol™ Network System

## Network Supply Water Temperature Control (SWT)



The Supply Water Temperature Control (SWT) provides connections to the mixing devices and secondary pumps. The Supply Water Temperature Control (SWT) can control either modulating valves or injection pumps or a combination of both. All connections are RJ45 and require the use of a Cat5 wire for the Supply Water Temperature Control (SWT) to communicate with the other devices. Includes control cabinet mounting screws and power and communication cable with plugs to interconnect controls.

Part No.	Part Description	US List
A9013000	Supply Water Temperature Control (SWT)	\$1,140.00

## Network Zone Pump Control (ZPC)



The Zone Pump Control (ZPC) provides connections to zone pumps used in the system in radiant, baseboard, hot water coil or high temperature applications. All connections are RJ45 and require the use of a Cat5 wire for the Zone Pump Control (ZPC) to communicate with the other devices. Includes control cabinet mounting screws and power and communication cable with plugs to interconnect controls.

Part No.	Part Description	US List
A9014000	Zone Pump Control (ZPC)	\$1,145.00

## Network Control Cabinets and Components



The Climate Cōntrol Network System control cabinet is a low profile enclosure that houses all main controllers (RTR, PEC, SWT, ZPC). The cabinet is powder coated white and can be mounted in either a right hand or left hand hinged configuration. Includes hinged inner door with screw lock to conceal network cable and connectors.

Part No.	Part Description	US List
A9010000	Control Cabinet, 4-position	\$625.00
A9010001	Control Cabinet, 3-position	\$565.00
A9010002	Control Cabinet, 2-position	\$495.00
A9010003	Control Cabinet, 1-position	\$430.00
A9060001	Main Panel power cable with plug (24vac), replacement part	\$35.00
A9060002	Main Panel interconnect cable with plugs, replacement part	\$46.00

# Climate Control™ Network System

The Digital Zone Control Module (DZCM) is a control board that provides connections to the Network System thermostats and plug in actuators. The Digital Zone Control Module (DZCM) requires 24VAC to power the control, actuators and thermostats. The Digital Zone Control Module (DZCM) uses a rotary address switch and requires a unique address number for each Digital Zone Control Module (DZCM) used in the system. The molex or plug in connectors allow for simple and easy installation when using part number A9010501. Not for use with other actuators. The Digital Zone Control Module communicates with the Router Main Control over Cat5 wire and RJ45 connectors.

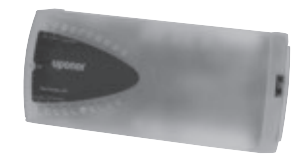
## Network Digital Zone Control Module (DZCM)



Part No.	Part Description	US List
A9011500	Digital Zone Control Module (DZCM)	\$1,095.00
A9010501	Thermal Valve Actuator with Molex Plug	\$88.00

The Furnace and Air Condition Control (FAC) board provides control of Fan, Air Heat, Cooling, Humidification and Dehumidification functions. This device is used for operation of Air Handlers, Furnaces and Rooftop units. The Furnace and Air Condition Control (FAC) has two additional contacts for 10K sensors for additional system feedback. All connections are screw terminals blocks and are removable from the board for ease of wiring. The board comes with a manual switch that can be set in the Off-Auto-Manual positions. The Furnace and Air Condition Control (FAC) requires 24VAC and communicates with the Router Main Control over Cat5 wire and RJ45 connectors.

## Network Furnace and Air Condition Control (FAC)



Part No.	Part Description	US List
A9011100	Furnace and Air Condition Control (FAC)	\$620.00

The Heat Recovery Ventilator Control (HRV) board provides control of up to three speeds of operation: Low, Medium and High. All connections are screw terminals blocks and are removable from the board for ease of wiring. The board comes with a manual switch that can be set in the Off-Auto-Manual positions. The Heat Recovery Ventilator Control (HRV) communicates with the Router Main Control over Cat5 wire and RJ45 connectors along with power for the board.

## Network Heat Recovery Ventilator Control (HRV)



Part No.	Part Description	US List
A9011200	Heat Recovery Ventilator Control (HRV)	\$555.00
A9010201	VOC-CO2 Indoor Air Quality Sensor, optional	\$2,350.00

# Climate Control™ Network System

## Network Zone Valve Damper Control (ZVD)



The Zone Valve Damper Control (ZVD) board provides control of up to eight zone valves or zone dampers for On-Off operation. All connections are screw terminals blocks and are removable from the board for ease of wiring. Jumper pins on the board can be set for dry contact or powered switching along with address number and device type (valves or dampers). The board comes with a manual switch that can be set in the Off-Auto-Manual positions. The Zone Valve Damper Control (ZVD) communicates with the Router Main Control over Cat5 wire and RJ45 connectors and requires a 24VAC power source.

Part No.	Part Description	US List
A9011400	Zone Valve and Damper Control (ZVD)	\$685.00

## Network Generic Input / Output Control (GIO)



The Generic Input / Output (GIO) board provides control of up to eight low voltage devices for On-Off operation along with detecting eight switched inputs. All connections are screw terminals blocks and are removable from the board for ease of wiring. Jumper pins on the board can be set for dry contact or powered switching along with address number and device type. The board comes with a manual switch that can be set in the Off-Auto-Manual positions. The Generic Input / Output (GIO) board communicates with the Router Main Control over Cat5 wire and RJ45 connectors and requires a 24VAC power source.

Part No.	Part Description	US List
A9011600	Generic Input and Output Control (GIO)	\$755.00

## Network Relays



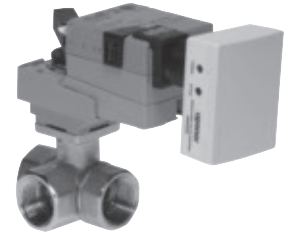
The Climate Control Network System features a series of Network Device Controls, specific for the equipment the network will control. Each control connects with the main panel controllers over a Cat5 wire and RJ45 connectors. Connection points inside the panel will depend on the function it serves. Inside each enclosure, a switch is provided for Auto and Manual operation. LEDs on the case provide feedback to the mode of operation and if the device is wired correctly. Each Control has a 3/4" thread for mounting directly to the equipment or to a standard electrical box knockout. The Variable Speed Pump Control requires a pump that will accept a 0-10VDC control signal.

Part No.	Part Description	US List
A9012010	Boiler Relay, On-Off	\$80.00
A9012020	Boiler Relay, Modulating 0-10VDC	\$70.00
A9063020	Modulating Valve Control, 0-10v	\$75.00
A9013030	Pump Relay, On-Off	\$118.00
A9013040	Network Variable Speed Pump Control, Modulating 0-10VDC	\$61.00

# Climate Control™ Network System

Part No.	Part Description	US List
A9013021	¾" Three Way Modulating Valve w/control, 0-10v (Cv=4.7)	\$615.00
A9013022	1" Three Way Modulating Valve w/control, 0-10v (Cv=10)	\$665.00
A9013023	1¼" Three Way Modulating Valve w/control, 0-10v (Cv=19)	\$780.00
A9013024	1½" Three Way Modulating Valve w/control, 0-10v (Cv=29)	\$1,025.00
A9013098	Replacement Powerhead only for ¾" and 1" valves, replacement part	\$285.00
A9013099	Replacement Powerhead only for 1¼" and 1½" valves, replacement part	\$485.00

## Network Relays



The Climate Control Network System features allow for easy integration of zoned snow melting for up to four (4) different areas. The snow melting can be run automatically with the Snow/Ice sensor (ordered separately) or manually. A 10K slab sensor is included with the network snow melt control.

Part No.	Part Description	US List
A9013051	Snow Melt Control, includes 10K sensor	\$325.00
A9013052	Automatic Snow and Ice Sensor (includes cup and sensor)	\$2,035.00
A9013053	Snow Melt Slab Sensor (10K), replacement part	\$52.00

## Network Snow Melting Controls



The Network System uses a proprietary new style thermostat to control and integrate the heating, cooling and ventilation requirements of today's market. The flush mount thermostats are low profile use remodeler wings to attach behind walls ½"-¾" thick. The surface mount attaches to a standard electrical box or can be fixed to any flat surface using screws or anchors (not included). All styles include an air sensor, humidity sensor (%RH) and option terminals for slab sensing if required. A plug makes for simple and easy connections using 18/2 AWG LVT and can control up to two stages of heating, two stages of cooling and supplemental all over 2 wires. The thermostats are polarity sensitive and can not be used with conventional control systems. An option wall sensor is available for installations requiring "invisible" room control while keeping the same functionality.

Part No.	Part Description	US List
A9010510	Surface Mount Thermostat, vertical display	\$250.00
A9010520	Flush Mount Thermostat, vertical display	\$235.00
A9010530	Flush Mount Thermostat, horizontal display	\$235.00
A9010540	Wall Sensor, no display	\$200.00
A9010599	Slab Sensor, 10K	\$33.00

## Network Thermostats





# Climate Cōntrol™ Network System

## Network System Sensors



The Climate Cōntrol Network System uses a variety of sensors to provide feedback and information to the main controls. From sensing pipe temperature to domestic hot water to an optional system pressure sensor, all sensors easily connect to the system, simplifying wiring and reducing the amount of wire required in conventional control systems.

Part No.	Part Description	US List
A9012005	Outdoor Sensor, 10K	\$70.00
A9012002	Domestic Hot Water (DHW) Tank Sensor, 10K	\$55.00
A9012003	Domestic Hot Water Recirculation Sensor, 10K	\$69.00
A9012004	System Pressure Sensor, On-Off	\$395.00
A9013001	Supply and Return Sensors, 10K	\$77.00

## Network System Wiring Accessories



The Network System uses Cat5 connections and cables to connect the different hardware through out an installation. Use the Wire Converter in retrofit applications where it is necessary to convert a pair of 18-2 low voltage thermostat wires to Cat5. The Network Y-Connector is used when “daisy-chaining” like controls to simplify systems and eliminate additional wiring.

Part No.	Part Description	US List
A9011002	Network Wire Converter	\$29.00
A9011003	Network Y-Connector	\$45.00

## Network Touch Panel Interface (TPI)



The Touch Panel Interface is a 5" x 7" high definition touch screen that can be intergrated into any Climate Cōntrol Network System. The screens provide the end user simple access to all the functions setting through a simple-to-use, high quality graphical program at one location. Items such as: viewing rooms, changing room temperatures, changing modes, setting schedules along with domestic hot water, snow melt functionality and much more. Multiple TPIs can be installed in a single system.

Part No.	Part Description	US List
A9070000	Touch Panel Interface	\$2,995.00

## Network Configuration Tool (UCT)



Uponor provides a high quality graphical software program that allows the installer to properly set up and configure the system. The package comes with a USB key and software CD. The CD contains the necessary files to run UCT along with product manuals, instruction sheets and other help files. The USB key is required to be plugged into the laptop or computer the UCT program is running on. The key is not needed to access manuals and documentation.

Part No.	Part Description	US List
A9090000	Uponor Configuration Tool (UCT 1.0) Software package	\$600.00

# Climate Control™ Zoning System

## Climate Control Zoning System

The starter kit includes a C-55 (base unit), an I-75 interface, a removable antenna, cables for connections, mounting accessories, instructions and a manual. The C-55 is located near the radiant system manifolds. The base unit can handle up to 12 thermostats and control up to 14 thermal actuators (purchase separately), each one controlling the flow of the water through loops of PEX tubing in a radiant system. An interface I-75 can be added for additional features (purchased separately).

### Uponor Radio Control System Starter Kit



Part No.	Part Description	US List
A3601000	Wireless Zoning System, Starter Kit, (C-55, I-75, Cables, Antenna)	\$797.40

The C-55 is located near the radiant system manifolds. The base unit can handle up to 12 thermostats and control up to 14 thermal actuators (purchase separately), each one controlling the flow of the water through loops of PEX tubing in a radiant system. An interface I-75 can be added for additional features (purchased separately).

### Uponor Radio Control Module C-55



Part No.	Part Description	US List
A3601012	Wireless Zoning System, Base Unit C-55, 12 Zones	\$511.20

The T-75 thermostat works with the Climate Control Zoning System. With sensors for optimal temperature measurement, radio-frequency hopping and battery-status indicators, the thermostat is available in either white or silver finish. Each thermostat uses two standard AAA batteries. Setpoint temperature range of 41°F (5°C) to 95°F (35°C).

### Uponor Radio Thermostat T-75



Part No.	Part Description	US List
A3600075	Wireless Thermostat T-75 (White), for Wireless Zoning System	\$126.25
A3600275	Wireless Thermostat T-75 (Silver), for Wireless Zoning System	\$193.20

The I-75 interface allows users to view system temperatures and status. The I-75 can connect up to three base units with a regular telephone cable and program up to five temperature setbacks. It can also designate room names for each thermostat and display system issues. Additional features include valve and pump exercises, vacation scheduling and automatic summer and winter settings.

### Interface I-75 for Uponor Radio Control System



Part No.	Part Description	US List
A3601075	Interface I-75, for Wireless Zoning System	\$319.45

# Climate Cöntrol™ Zoning System

## Mounting Kit for T-75 Radio Thermostat



The mounting kit allows the T-75 thermostat to be mounted on tile or other surfaces that can't be drilled by using double stick pads (included). Also includes a table stand for the thermostat, allowing it to be placed anywhere.

Part No.	Part Description	US List
A3600175	Mounting Kit (White), for T-75 Thermostat	\$10.30
A3600375	Mounting Kit (Silver), for T-75 Thermostat	\$27.95

## Antenna for C-55 Uponor Radio Control Module



Replacement radio antenna for the C-55 base unit.

Part No.	Part Description	US List
A3601001	Antenna, for Base Unit C-55	\$259.55

## Cable Kit for Uponor Radio Control System



Replacement cable kit for Climate Cöntrol™ Zoning System starter kit. Includes all needed cables.

Part No.	Part Description	US List
A3601002	Cable Kit, for Wireless Zoning System	\$23.55

## Data Stick (five languages) for Radio System



Replacement language data stick for the I-75 interface.

Part No.	Part Description	US List
A3600005	Data Stick 5 (Languages), for Wireless Zoning System	\$41.80

## Two-wire Thermal Actuator for TruFLOW Manifold



Two-wire, slow-opening thermal actuator, which mounts directly onto TruFLOW Classic and Jr. valved manifolds and connects to the C-55 base unit. It provides individual loop flow control on a multi-zoned manifold (a manifold serving more than one zone).

Part No.	Part Description	US List
A3030523	2-wire Thermal Actuator, for TruFLOW Classic & Jr. manifolds	\$59.75

## EP Valves

EP valves feature the proven performance of engineered plastic and the durability and precision of ceramics. They resist chemical and mineral buildup, along with corrosion, pitting and scaling. They can be used for PEX-to-PEX and point-of-use shutoff at the fixture. The angle stop valve is configured for ½" Wirsbo AQUAPEX® tubing.

### ProPEX EP Angle Stop Valve



Part No.	Part Description	US List
Q4905038	ProPEX EP Angle Stop Valve for ½" PEX	\$9.15

EP valves feature the proven performance of engineered plastic and the durability and precision of ceramics. They resist chemical and mineral buildup, along with corrosion, pitting and scaling. They can be used for PEX-to-PEX and point-of-use shutoff at the fixture. The straight stop valve is configured for ½" Wirsbo AQUAPEX® tubing.

### ProPEX Straight Stop Valve



Part No.	Part Description	US List
Q4935038	ProPEX Straight Stop Valve for ½" PEX	\$8.70

EP valves feature the proven performance of engineered plastic and the durability and precision of ceramics. They resist chemical and mineral buildup, along with corrosion, pitting and scaling. They can be used for PEX-to-PEX and point-of-use shutoff at the fixture. The in-line valve is configured for ½" and ¾" Wirsbo AQUAPEX® tubing.

### ProPEX EP In-line Valves



Part No.	Part Description	US List
Q4905050	ProPEX EP In-line Valves, ½" PEX x ½" PEX	\$11.40
Q4837575	ProPEX EP In-line Valves, ¾" PEX x ¾" PEX	\$15.80



# Uponor Logic for Radiant Floor Heating and Cooling is the ultimate in comfort control.



- Comfort
- Efficiency
- Advanced control systems
- Industry pioneer
- Proven
- Peace of mind

# Uponor Radiant Heating and Cooling Systems

## New and Innovative Solutions for Complete Radiant Systems

### Uponor Multifunction Climate Cöntrol™ System

Simple, intelligent and very intuitive, the Multifunction Climate Cöntrol was designed with Uponor Logic to do everything better. It replaces all six of our previous pro Series models, and is made to run multiple proPANEL® pumping and mixing units with incredible ease. Now

multiple functionalities, like boiler staging, domestic hot water control, mixing, snowmelt and zone pumping can be controlled from one interface. It's one box, with one wiring schematic, one set-up and one easy, plug-and-play way to install.

- Increases functionality without adding cost
- Eliminates the need for multiple controls
- Fewer replacement parts
- Fully programmable with multiple built-in functions
- Simple and easy Cat5 connections and wires



- Simple plug-and-play connections, eliminating wiring confusion
- Low-voltage platform (24V)
- One controller can control multiple proPANEL® units, decreasing product and installation costs
- Easy to learn and operate
- Intuitive 5-button interface for easy setup and viewing

### Uponor proPANEL® Pumping and Mixing Panels

Designed specifically to work with the Multifunction Climate Cöntrol, the new proPANEL products are an innovative pumping and mixing unit that only require four models to cover countless applications. Prewired

and fully assembled, this modular design allows multiple proPANEL units to be connected to one Multifunction Climate Cöntrol to give you flexible options for your unique jobs.

- More options for less money than previous models
- Updated hardware and circulators
- Modular, for use with other proPANEL® models for additional heating needs
- Quick one-person installation
- Increases functionality without increasing cost
- Small, compact design



- Eliminates multiple controls
- Easy wiring configuration; no confusion
- Purge capability and pump isolation included
- Less connections means less risk of leaks
- Decreased installation time and setup costs
- Quick and simple connection to Multifunction Climate Cöntrol™ hydronic controller

# Uponor Radiant Heating and Cooling Systems

## Barrier Tubing

Heat-transfer tubing for closed-loop hydronic heating and cooling applications with an EVOH oxygen diffusion barrier that meets the German DIN Standard 4726. Wirsbo hePEX™ plus tubing is compatible with Uponor's ProPEX®, APR and QS-style fittings and is manufactured to ASTM F876 and F877. Tubing is rated and listed by the Hydrostatic Stress Board of PPI at: 200°F at 80 psi, 180°F at 100 psi and 73.4°F at 160 psi.

### Wirsbo hePEX Tubing, Coils



Part No.	Part Description	Coils/Pallet	List Price/Ea.
A1180313	5/16" Wirsbo hePEX plus, 250-ft. coil	40	\$277.85
A1220313	5/16" Wirsbo hePEX plus, 1,000-ft. coil	12	\$1,111.20
A1210375	3/8" Wirsbo hePEX plus, 400-ft. coil	18	\$445.35
A1220375	3/8" Wirsbo hePEX plus, 1,000-ft. coil	12	\$1,113.40
A1250500	1/2" Wirsbo hePEX plus, 300-ft. coil	18	\$353.90
A1220500	1/2" Wirsbo hePEX plus, 1,000-ft. coil	8	\$1,179.55
A1250625	5/8" Wirsbo hePEX plus, 300-ft. coil	12	\$420.05
A1220625	5/8" Wirsbo hePEX plus, 1,000-ft. coil	5	\$1,400.05
A1250750	3/4" Wirsbo hePEX plus, 300-ft. coil	12	\$499.35
A1240750	3/4" Wirsbo hePEX plus, 500-ft. coil	8	\$832.30
A1251000	1" Wirsbo hePEX plus, 300-ft. coil	5	\$833.45
A1241000	1" Wirsbo hePEX plus, 500-ft. coil	6	\$1,389.00
<b>NEW</b> A1141250	1 1/4" Wirsbo hePEX plus, 100-ft. coil	12	\$453.70
<b>NEW</b> A1251250	1 1/4" Wirsbo hePEX plus, 300-ft. coil	8	\$1,860.30
<b>NEW</b> A1141500	1 1/2" Wirsbo hePEX plus, 100-ft. coil	5	\$620.10
<b>NEW</b> A1251500	1 1/2" Wirsbo hePEX plus, 300-ft. coil	5	\$1,755.00
<b>NEW</b> A1142000	2" Wirsbo hePEX plus, 100-ft. coil*	12	\$916.90
<b>NEW</b> A1252000	2" Wirsbo hePEX plus, 300-ft. coil*	6	\$2,750.70

**Note:** Non-standard lengths of Wirsbo hePEX plus tubing are also available. Call Uponor Customer Service for availability and pricing.

\*2" Wirsbo hePEX plus available spring, 2008.

Part No.	Part Description	List Price/Ea.
<b>NEW</b> A1921250	1 1/4" Wirsbo hePEX plus, 20-ft. Straight Length, 100 ft.	\$453.70
<b>NEW</b> A1921500	1 1/2" Wirsbo hePEX plus, 20-ft. Straight Length, 100 ft.	\$620.10
<b>NEW</b> A1922000	2" Wirsbo hePEX plus, 20-ft. Straight Length, 100 ft.*	\$916.90

\*2" Wirsbo hePEX plus available spring, 2008.

### Wirsbo hePEX Tubing, Straight Lengths





# Uponor Radiant Heating and Cooling Systems

## Multi-layer Composite (MLC) Tubing



Multi-layered composite tubing consisting of an interior aluminum tubing lined with inner and outer layers of PEX. MLC tubing offers 100% oxygen diffusion. The stay-in-place rigid feature of the tubing works great for hydronic baseboard, radiators, unit heaters, air handlers or manifold connections.

Uponor MLC tubing is manufactured to the following standard.

- ASTM F1281 "Standard Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Pressure Pipe"

Uponor Tubing is rated and listed by the Hydrostatic Stress Board of PPI at:

- 200°F at 100 psi • 180°F at 125 psi • 140°F at 160 psi • 73°F at 200 psi

Uponor MLC tubing has the following listing: ICC.

Uponor MLC tubing is approved in the following code: IMC.

**Note:** MLC tubing is used in hydronic heating installations only.

Part No.	Part Description	Coils/Pallet	List Price/Ea.
D1250500	½" MLC Tubing, 300-ft. coil	20	\$322.00
D1220500	½" MLC Tubing, 1,000-ft. coil	8	\$1,073.10
D1250625	⅝" MLC Tubing, 300-ft. coil	13	\$437.60
D1220625	⅝" MLC Tubing, 1,000-ft. coil	7	\$1,458.60
D1140750	¾" MLC Tubing, 100-ft. coil	14	\$206.65
D1250750	¾" MLC Tubing, 300-ft. coil	8	\$619.90
D1240750	¾" MLC Tubing, 500-ft. coil	6	\$1,033.20
D1141000	1" MLC Tubing, 100-ft. coil	10	\$298.40
D1251000	1" MLC Tubing, 300-ft. coil	6	\$854.50

## Non-barrier Tubing

### High-density Polyethylene (HDPE) Tubing



High-density polyethylene (HDPE) SDR 11 tubing used as supply and return mains for large hydronic heating applications where the system contains no ferrous corrodible components or where ferrous components are isolated from the tubing. HDPE tubing is manufactured from 3408 PE material. Tubing and fittings are connected through fusion welding.

Service pressure and temperature ratings for HDPE used to convey water or water/glycol mixtures are as follows:

- 140°F at 80 psi
- 120°F at 100 psi
- 100°F at 125 psi
- 73.4°F at 160 psi

**Note:** This tubing is provided only in 20-foot lengths.

Part No.	Part Description	List Price/Ea.
B1812000	2" x 20' HDPE Tubing (straight length)	\$111.90
B1813000	3" x 20' HDPE Tubing (straight length)	\$215.90
B1814000	4" x 20' HDPE Tubing (straight length)	\$328.90

# Uponor Radiant Heating and Cooling Systems

## TruFLOW™ Family of Manifold Systems

The TruFLOW™ family of manifolds offer an enhanced range of capacity, reliability and flexibility for radiant systems. The TruFLOW family consists of four manifold systems.

- TruFLOW Jr. Manifold Assembly
- TruFLOW Jr. Modular Manifold
- TruFLOW Classic Manifold Assembly
- TruFLOW Sr. Modular Manifold

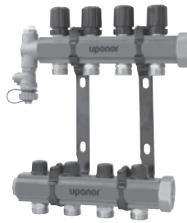
These extruded brass manifolds offer quick and easy connections to supply and return lines, and accommodate Wirsbo hePEX plus, Wirsbo AQUAPEX and MLC tubing for radiant loops. All come with a full line of accessories.

The maximum operating temperature and pressure for the TruFLOW family of manifolds is 220°F at 145 psi.

### TruFLOW Jr. Manifolds



TruFLOW Jr. Assembly with Balancing Valves and Valveless

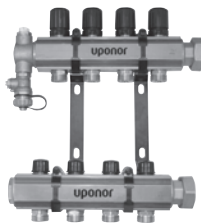


TruFLOW Jr. Assembly with Isolation and Balancing Valves



TruFLOW Jr. Add-on Modular Manifolds

### TruFLOW Classic Manifold Assembly

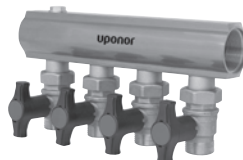


TruFLOW Classic Manifold Assembly

### TruFLOW Sr. Modular Manifolds



TruFLOW Sr. Manifold with Balancing Valves



TruFLOW Sr. Manifold with Isolation Valves



TruFLOW Sr. Valveless Manifold

# Uponor Radiant Heating and Cooling Systems

## TruFLOW Manifold Assemblies

### TruFLOW Assembly with Balancing Valves and Valveless

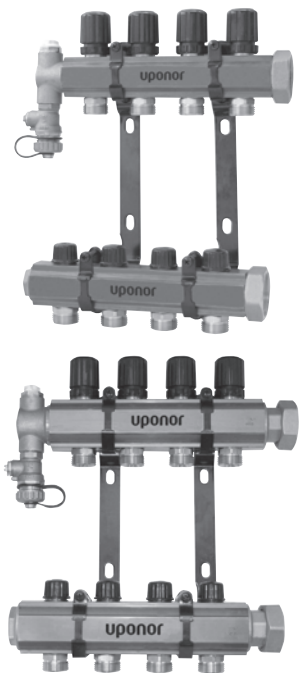


The TruFLOW Assembly with Balancing Valves and Valveless manifold comes fully assembled and ready for installation. The manifold body ends have R32 unions and the loop outlets have QS20 male threads.

Maximum recommended flow to the manifold based on manifold body diameter is 14 gpm.

Part No.	Item Description	Dim (Body-Outlets-Body)	Each Qty.	Pkg. Qty.	List Price/Ea.
A2660200	TruFLOW Jr. Assembly, Balancing Valves and Valveless, 2-loop	R32-R20-R32	1	-	\$242.40
A2660300	TruFLOW Jr. Assembly, Balancing Valves and Valveless, 3-loop	R32-R20-R32	1	-	\$295.00
A2660400	TruFLOW Jr. Assembly, Balancing Valves and Valveless, 4-loop	R32-R20-R32	1	-	\$349.25
A2660500	TruFLOW Jr. Assembly, Balancing Valves and Valveless, 5-loop	R32-R20-R32	1	-	\$450.60
A2660600	TruFLOW Jr. Assembly, Balancing Valves and Valveless, 6-loop	R32-R20-R32	1	-	\$503.15
A2660700	TruFLOW Jr. Assembly, Balancing Valves and Valveless, 7-loop	R32-R20-R32	1	-	\$557.45
A2660800	TruFLOW Jr. Assembly, Balancing Valves and Valveless, 8-loop	R32-R20-R32	1	-	\$611.70

### TruFLOW Assembly with Balancing and Isolation Valves



The TruFLOW Assembly with Balancing and Isolation Valves comes fully assembled and ready for installation. The manifold assembly is shipped with the appropriate number of TruFLOW Manifold Actuator Adapters (A2630028). The manifold body ends have threads as shown below.

Maximum recommended flow to the manifold is 14 gpm for Jr. and 21 gpm for Classic.

Part No.	Item Description	Dim (Body-Outlets)	Each Qty.	Pkg. Qty.	List Price/Ea.
A2660201	TruFLOW Jr. Assembly, B&I, 2-loop	R32-R20	1	-	\$303.00
A2660301	TruFLOW Jr. Assembly, B&I, 3-loop	R32-R20	1	-	\$368.70
A2660401	TruFLOW Jr. Assembly, B&I, 4-loop	R32-R20	1	-	\$436.55
A2660501	TruFLOW Jr. Assembly, B&I, 5-loop	R32-R20	1	-	\$563.20
A2660601	TruFLOW Jr. Assembly, B&I, 6-loop	R32-R20	1	-	\$628.95
A2660701	TruFLOW Jr. Assembly, B&I, 7-loop	R32-R20	1	-	\$696.80
A2660801	TruFLOW Jr. Assembly, B&I, 8-loop	R32-R20	1	-	\$764.60
A2610200	TruFLOW Classic Assembly, B&I, 2-loop	R32-R20	1	-	\$339.95
A2610300	TruFLOW Classic Assembly, B&I, 3-loop	R32-R20	1	-	\$422.60
A2610400	TruFLOW Classic Assembly, B&I, 4-loop	R32-R20	1	-	\$505.25
A2610500	TruFLOW Classic Assembly, B&I, 5-loop	R32-R20	1	-	\$610.15
A2610600	TruFLOW Classic Assembly, B&I, 6-loop	R32-R20	1	-	\$692.95
A2610700	TruFLOW Classic Assembly, B&I, 7-loop	R32-R20	1	-	\$775.75
A2610800	TruFLOW Classic Assembly, B&I, 8-loop	R32-R20	1	-	\$890.15
A2611000	TruFLOW Classic Assembly, B&I, 10-loop	R32-R20	1	-	\$1,068.65
A2611200	TruFLOW Classic Assembly, B&I, 12-loop	R32-R20	1	-	\$1,256.80

# Uponor Radiant Heating and Cooling Systems

## TruFLOW Jr. and Sr. Modular Manifolds

TruFLOW Modular Manifold with Balancing Valves is used in conjunction with either the TruFLOW Modular Manifold with Isolation Valves or the TruFLOW Modular Valveless Manifold to complete the manifold set. The TruFLOW Modular Manifold with Balancing Valves allows manual flow balancing of the individual loops on the manifold. Manifolds are available in 2- to 6-loop configurations depending on model. The manifold body ends have threads as shown below.

Maximum recommended flow to the manifold is 14 gpm for Jr. and 41 gpm for Sr.

Part No.	Item Description	Dim (Body-Outlets-Body)	Each Qty.	Pkg. Qty.	List Price/Ea.
A2663212	TruFLOW Jr. Balancing Valves, 2-loop	R32-R20-R32	1	-	\$97.05
A2663213	TruFLOW Jr. Balancing Valves, 3-loop	R32-R20-R32	1	-	\$120.75
A2663214	TruFLOW Jr. Balancing Valves, 4-loop	R32-R20-R32	1	-	\$144.40
◀ A2650201	TruFLOW Sr. Balancing Valves, 2-loop	1½" BSP-R25-1½" BSP	1	-	\$145.90
◀ A2650301	TruFLOW Sr. Balancing Valves, 3-loop	1½" BSP-R25-1½" BSP	1	-	\$207.05
◀ A2650401	TruFLOW Sr. Balancing Valves, 4-loop	1½" BSP-R25-1½" BSP	1	-	\$268.30
◀ A2650501	TruFLOW Sr. Balancing Valves, 5-loop	1½" BSP-R25-1½" BSP	1	-	\$368.65
◀ A2650601	TruFLOW Sr. Balancing Valves, 6-loop	1½" BSP-R25-1½" BSP	1	-	\$429.30

**TruFLOW Manifold with Balancing Valves**



TruFLOW Modular Manifold with Isolation Valves is used in conjunction with either the TruFLOW Modular Manifold with Balancing Valves or the TruFLOW Modular Valveless Manifold to complete the manifold set. The TruFLOW Modular Manifold with Isolation Valves allows quick isolation of the loop by closing the valve on the manifold. Manifolds are available in 2- to 6-loop configurations depending on model. The manifold body ends have threads as shown below.

Maximum recommended flow to the manifold is 14 gpm for Jr. and 41 gpm for Sr.

Part No.	Item Description	Dim (Body-Outlets-Body)	Each Qty.	Pkg. Qty.	List Price/Ea.
A2663222	TruFLOW Jr. Isolation Valves, 2-loop	R32-R20-R32	1	-	\$116.25
A2663223	TruFLOW Jr. Isolation Valves, 3-loop	R32-R20-R32	1	-	\$153.00
A2663224	TruFLOW Jr. Isolation Valves, 4-loop	R32-R20-R32	1	-	\$189.75
◀ A2650202	TruFLOW Sr. Isolation Valves, 2-loop	1½" BSP-R25-1½" BSP	1	-	\$168.10
◀ A2650302	TruFLOW Sr. Isolation Valves, 3-loop	1½" BSP-R25-1½" BSP	1	-	\$240.50
◀ A2650402	TruFLOW Sr. Isolation Valves, 4-loop	1½" BSP-R25-1½" BSP	1	-	\$313.10
◀ A2650502	TruFLOW Sr. Isolation Valves, 5-loop	1½" BSP-R25-1½" BSP	1	-	\$405.05
◀ A2650602	TruFLOW Sr. Isolation Valves, 6-loop	1½" BSP-R25-1½" BSP	1	-	\$496.95

**TruFLOW Manifold with Isolation Valves**



◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## TruFLOW Valveless Manifold



TruFLOW Modular Valveless Manifold is used with either the TruFLOW Modular Manifold with Isolation Valves or the TruFLOW Modular Manifold with Balancing Valves to complete the manifold set. The TruFLOW Modular Valveless Manifold does not feature flow balancing or isolation capability. Manifolds are available in 2- to 6-loop configurations depending on model. The manifold body and the loop outlets have threads as shown below.

Maximum recommended flow to the manifold is 14 gpm for Jr. and 41 gpm for Sr.

Part No.	Item Description	Dim (Body-Outlets-Body)	Each Qty.	Pkg. Qty.	List Price/Ea.
A2663202	TruFLOW Jr. Valveless, 2-loop	R32-R20-R32	1	-	\$64.05
A2663203	TruFLOW Jr. Valveless, 3-loop	R32-R20-R32	1	-	\$79.90
A2663204	TruFLOW Jr. Valveless, 4-loop	R32-R20-R32	1	-	\$94.70
◀ A2650200	TruFLOW Sr. Valveless, 2-loop	1½" BSP-R25-1½" BSP	1	-	\$126.20
◀ A2650300	TruFLOW Sr. Valveless, 3-loop	1½" BSP-R25-1½" BSP	1	-	\$177.80
◀ A2650400	TruFLOW Sr. Valveless, 4-loop	1½" BSP-R25-1½" BSP	1	-	\$229.30
◀ A2650500	TruFLOW Sr. Valveless, 5-loop	1½" BSP-R25-1½" BSP	1	-	\$300.40
◀ A2650600	TruFLOW Sr. Valveless, 6-loop	1½" BSP-R25-1½" BSP	1	-	\$371.45

## TruFLOW Manifold Accessories

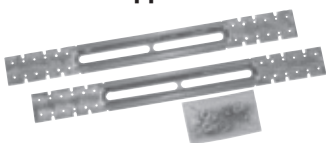
### TruFLOW Manifold Mounting Bracket



TruFLOW Jr. and TruFLOW Classic Manifold Mounting Bracket is used to mount the TruFLOW Jr. and TruFLOW Classic Manifolds. Brackets are made of durable metal and are offset front-to-back and side-to-side for ease of installation. Two brackets are required for each manifold location.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2640006	TruFLOW Jr. Manifold Mounting Bracket, single bracket	-	10	\$22.60
A2620006	TruFLOW Classic Manifold Bracket, single bracket replacement part	-	10	\$32.15

### TruFLOW Support Bracket



TruFLOW Support Bracket comes in a set of two and facilitates mounting of TruFLOW Jr. and TruFLOW Classic manifolds between wall studs. The brackets mount in four different configurations – with exposed studs, in a stud cavity, on a flat surface and vertically. The brackets are made of stamped metal construction and accommodates different stud widths. The brackets include wood screws for mounting to studs (or walls) as well as four sliding cage nuts and four machine screws for mounting the assemblies to the brackets.

TruFLOW Sr. Manifold Mounting Bracket Set is used to mount the TruFLOW Sr. Manifolds. Mounting hardware for the brackets sold separately. Four brackets are required for each manifold location.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2072500	TruFLOW Support Bracket, set of 2	1	-	\$56.45
◀ A2650006	TruFLOW Sr. Manifold Mounting Bracket, set of 4	1	-	\$178.20

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

End Cap with Vent caps the end of the TruFLOW Jr. Modular Manifolds. It comes complete with swivel drain valve and manual air vent. Required gasket (A2403232) is included.

## End Cap with Vent

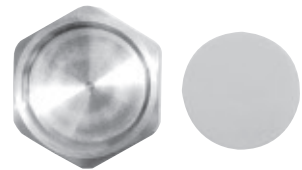
Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2803250	End Cap with Vent, R32	1	-	\$72.35
A2403232	Manifold Gasket, spare part	-	10	\$1.60



Basic End Cap caps the end of the TruFLOW Jr. Modular Manifolds. Required gaskets and o-rings are included.

## Basic End Cap

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2080032	Basic End Cap, R32	-	10	\$17.05
◀ A2651251	TruFLOW Sr. Manifold Basic End Cap	-	10	\$21.70



TruFLOW Sr. Manifold End Cap with Drain and Vent has 1¼" male BSP thread to connect into the TruFLOW Manifold Reducing Bushing supplied in the kit. The bushing has 1¼" female BSP threads with 1½" male BSP threads that connect into the TruFLOW Sr. Manifold body. This end cap comes standard with a manual purge vent on top and a garden hose threaded connection on the drain. The manual vent can be replaced with the Automatic Vent with Check Valve (A2620050), sold separately. Use Uponor Silicone Oil (A2620007), sold separately, on the male threads to ease installation.

## TruFLOW Manifold End Cap with Drain and Vent Kit

**Note:** Use only with TruFLOW Sr. Manifolds.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ A2651250	TruFLOW Sr. Manifold End Cap with Drain and Vent Kit	-	10	\$63.45



◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## TruFLOW Jr. and Classic Manifold Supply and Return Ball Valves



TruFLOW Manifold Supply and Return Ball Valves are full-flow 1¼" ball valves with R32 male by R32 union nut that fits directly on the TruFLOW Jr. and Classic Manifolds. The Ball Valves come standard with a thermometer for easy visual check of supply temperatures. The Supply Valve has built-in filter; the filter ball has isolation within the valve for easy cleaning of the filter.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2631250	TruFLOW Manifold Supply and Return Ball Valves, one set	1	-	\$217.20
A2610120	Thermometer with Well, replacement part	-	10	\$22.75

## TruFLOW Manifold Coupling Nipple



TruFLOW Manifold Coupling Nipple features male BSP thread on both ends and is used to make the connection between manifold parts. Primary seal for the connection is made with the attached o-ring on the nipple. Thread sealant on the nipple ensures tight bonding between the nipple and the manifold. Use Uponor Silicone Oil (A2620007), sold separately, on the male threads to ease installation.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2621010	TruFLOW Classic Manifold Coupling Nipple, 1¼" BSP x 1¼" BSP	-	10	\$18.95
◀ A2651515	TruFLOW Sr. Manifold Coupling Nipple, 1½" BSP x 1½" BSP	-	10	\$29.65

## TruFLOW Manifold Elbow Union



Features an R32 union by 1¼" BSP male connection. The union elbow is designed to make tight 90-degree turns from the TruFLOW Classic Manifold supply and return connections. Use Uponor Silicone Oil (A2620007), sold separately, on the male threads to ease installation.

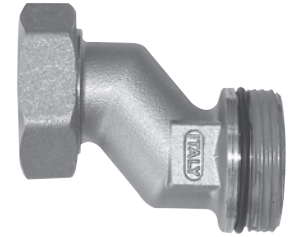
Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2620090	TruFLOW Classic Manifold Elbow Union, R32 Union x 1¼" BSP	-	10	\$23.15

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

Features an R32 union by 1¼" BSP male connection. This union is designed for easy alignment of the supply and return piping at the manifold. Use Uponor Silicone Oil (A2620007), sold separately, on the male threads to ease installation.

## TruFLOW Manifold Offset Union



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2620045	TruFLOW Classic Manifold Offset union, R32 Union x 1¼" BSP	-	10	\$24.35

This TruFLOW Classic Manifold Extension Kit is designed for easy in-line extension of up to two additional loops for the TruFLOW Classic Manifold Assembly. The kit contains two 1¼" BSP nipples, one supply manifold, one return manifold and two loop end caps. Use Uponor Silicone Oil on the male threads to ease installation. A bottle of Uponor Silicone Oil is provided in the kit.

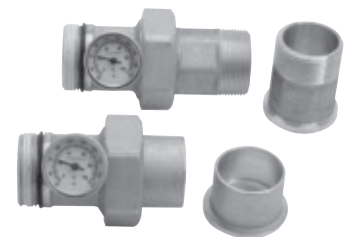
## TruFLOW Manifold Extension Kit



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2610100	TruFLOW Classic Manifold Extension Kit, 2 loops	1	-	\$272.80

The TruFLOW Sr. Manifold Connection Kit makes quick transition from the manifold to either 1½" copper pipe or 1½" NPT-threaded connections. The kit comes with two thermometer adapters with thermometer, two TruFLOW Sr. 2" BSP union nuts, two 1½" NPT male-threaded adapters, and two 1½" copper adapters. The thermometer adapter threads into the body of the manifold with 2" BSP union nut capturing the respective threaded or sweat adapter to the thermometer adapter. Use Uponor Silicone Oil (A2620007), sold separately, on the male threads to ease installation.

## TruFLOW Manifold Connection Kit



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ A2651500	TruFLOW Sr. Manifold Connection Kit	1	-	\$224.70

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2400032	Basic End Cap Gasket, spare part, R32	-	10	\$2.25
◀ A2650001	Replacement Gasket for 1½" TruFLOW Sr. Union	-	10	\$0.75
A2650004	Replacement O-ring for 1½" BSP Connections	-	10	\$0.30
A2620005	Replacement Gasket for R32 Union Connections	-	10	\$1.10
A2620007	Silicone Oil, 1.76 oz. bottle, optional part	-	10	\$8.65
A2620008	Replacement O-ring for 1¼" BSP Connections	-	10	\$0.45

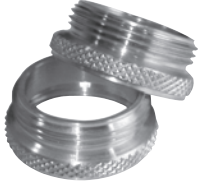
## Replacement and Spare Parts for Manifolds

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.



# Uponor Radiant Heating and Cooling Systems

## TruFLOW Manifold Actuator Adapter



The TruFLOW Manifold Actuator Adapter is a replacement part. This M28 brass adapter converts the manifold actuator threads to fit the standard Uponor Thermal Actuator (A3010522) and Motorized Actuator (A3020522).

**Note:** Use only with the TruFLOW Jr. and Classic Manifolds.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2630028	TruFLOW Manifold Actuator Adapter, replacement part	-	10	\$2.05

## TruFLOW Manifold Balancing Hex Key



The TruFLOW Manifold Balancing Hex Key is used on the supply manifold to adjust the flow rate across the loop for balancing. Each manifold is shipped with a hex key for balancing.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2620002	TruFLOW Manifold Balancing Hex Key, replacement part	-	10	\$3.95

## TruFLOW Visual Flow Meter



Use the TruFLOW Visual Flow Meter on TruFLOW Jr. and TruFLOW Classic manifolds to accurately measure the flow of hydronic radiant loops. The meter is available in a low-range (A2640015), which measures 0.15 to 0.8 gpm, and a high-range (A2640027), which measures 0.25 to 2.0 gpm. Both meters feature Q20 male threads to connect with Q20 threaded fitting assemblies.

**Note 1:** For proper operation, install Flow Meters on the return manifold.

**Note 2:** Uponor recommends using a strainer within the system such as the TruFLOW Manifold Supply and Return Ball Valves (A2631250) to keep debris from entering the flow meters.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2640015	TruFLOW Visual Flow Meter, 0.15 to 0.8 gpm	-	10	\$35.45
A2640027	TruFLOW Visual Flow Meter, 0.25 to 2.0 gpm	-	10	\$35.45

# Uponor Radiant Heating and Cooling Systems

TruFLOW Loop Thermometer comes with an QS20 female union on one end and an QS20 male on the other. Thermometer Well and removable thermometer are included.

**Note:** Use only with the TruFLOW Jr. and Classic Manifolds.

## TruFLOW Loop Thermometer



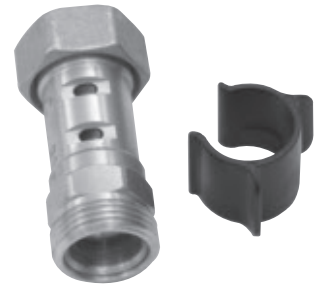
Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2610020	TruFLOW Manifold Loop Thermometer	-	10	\$39.15
A2610120	Thermometer with Well, replacement part	-	10	\$22.75

Use the TruFLOW Electronic Flow/Temperature Meter on TruFLOW Jr. and TruFLOW Classic manifolds to accurately measure flow and temperature in hydronic radiant loops. The meter is available in a low range (A2620015), which measures 0.15 to 1.3 gpm, and a high-range (A2620027), which measures 0.37 to 2.0 gpm. Both meters feature Q20 male thread to connect with Q20 threaded fitting assemblies.

**Note 1:** For proper operation, install Flow/Temperature Meters on the return manifold. The FlowMaster (A2620001) is required to accurately measure the flow in the hydronic loops.

**Note 2:** Uponor recommends using a strainer within the system such as the TruFLOW Manifold Supply and Return Ball Valves (A2631250) to keep debris from entering the flow meters.

## TruFLOW Electronic Flow/Temperature Meter



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2620015	TruFLOW Electronic Flow/Temperature Meter, 0.15 to 1.3 gpm	-	10	\$41.45
A2620027	TruFLOW Electronic Flow/Temperature Meter, 0.37 to 2.0 gpm	-	10	\$41.45
A2620009	Replacement O-ring for TruFLOW Flow/Temperature Meter	-	10	\$0.40

The FlowMaster uses electronic technology to measure flow and temperature in hydronic heating systems. The FlowMaster has the ability to read flow and temperatures for individual loops. The device can store the flow and temperature information for up to 144 loops. Documentation is simplified with the download capability of the FlowMaster. The FlowMaster comes with software, a communication cable and a battery charger. Software is PC-compatible only.

## FlowMaster



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2620001	FlowMaster	1	-	\$1,109.75

Similar to the original FlowMaster (A2620001), the FlowMaster Jr. is geared toward installers who do not need to save or download data to a computer. A digital screen on the FlowMaster Jr. provides high/low flow and temperature read-outs per loop. The FlowMaster Jr. does not feature memory or storage capability.

## FlowMaster Jr.



**Note:** Two batteries are included with the FlowMaster Jr.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2630001	FlowMaster Jr.	1	-	\$165.65

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## Copper Manifolds

### 2" Copper Valved Manifold with ProPEX Ball Valves



Uponor's 2" x 4' Copper Valved Manifold with ProPEX Ball Valves is made of type L copper and features 5/8" and 3/4" nominal branches that are 4 inches on center. The manifold is available in 12-outlet configurations. The maximum recommended flow to the manifold based on manifold body diameter is 45 gpm.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2811263	2" x 4' Copper Valved Manifold with 5/8" ProPEX Ball Valves, 12 outlet	1	-	\$683.05
Q2811275	2" x 4' Copper Valved Manifold with 3/4" ProPEX Ball Valves, 12 outlet	1	-	\$723.80

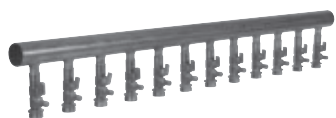
### 2" Copper Valved Manifold with ProPEX Ball and Balancing Valves



Uponor's 2" x 4' Copper Valved Manifold with ProPEX Ball and Balancing Valves is made of type L copper and features 5/8" and 3/4" nominal branches that are 4 inches on center. The manifold is available in 12-outlet configurations. The maximum recommended flow to the manifold based on manifold body diameter is 45 gpm.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2821263	2" x 4' Copper Valved Manifold with 5/8" ProPEX Ball and Balancing Valves, 12 outlet	1	-	\$1,097.00
Q2821275	2" x 4' Copper Valved Manifold with 3/4" ProPEX Ball and Balancing Valves, 12 outlet	1	-	\$1,029.15

### 2" Copper Valved Manifold with R20/R25 Threaded Ball Valves



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F2811220	2" x 4' Copper Valved Manifold with R20 Threaded Ball Valves, 12 outlet	1	-	\$815.45
F2811225	2" x 4' Copper Valved Manifold with R25 Threaded Ball Valves, 12 outlet	1	-	\$871.70

# Uponor Radiant Heating and Cooling Systems

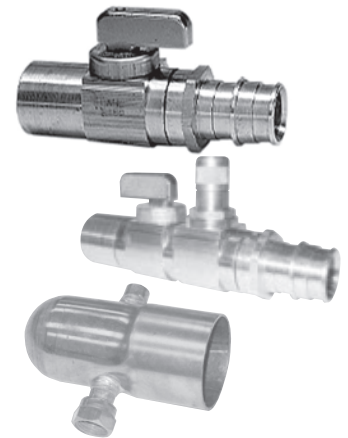
Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F2821220	2" x 4' Copper Valved Manifold with R20 Threaded Ball and Balancing Valves, 12 outlet	1	-	\$965.30
F2821225	2" x 4' Copper Valved Manifold with R25 Threaded Ball and Balancing Valves, 12 outlet	1	-	\$1,018.35

## 2" Copper Valved Manifold with R20/R25 Threaded Ball and Balancing Valves



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q5806375	ProPEX Ball Valve, 5/8" PEX x 3/4" Copper Adapter	-	10	\$28.75
Q5807575	ProPEX Ball Valve, 3/4" PEX x 3/4" Copper Adapter	-	10	\$30.35
Q5906375	ProPEX Ball and Balancing Valve, 5/8" PEX x 3/4" Copper Adapter	-	10	\$56.50
Q5907575	ProPEX Ball and Balancing Valve, 3/4" PEX x 3/4" Copper Adapter	-	10	\$55.90
A5802075	Ball Valve, R20 Thread x 3/4" Copper Adapter	-	10	\$29.75
A5802575	Ball Valve, R25 Thread x 3/4" Copper Adapter	-	10	\$32.40
A5902075	Ball and Balancing Valve, R20 Thread x 3/4" Copper Adapter	-	10	\$60.30
A5902575	Ball and Balancing Valve, R25 Thread x 3/4" Copper Adapter	-	10	\$62.20
A2402000	2" Copper End Cap Spun End with drain and vent connections	1	-	\$118.70

## 2" Copper Valved Manifold Accessories



Copper Valveless Manifold (type L copper) with 1/2" nominal. The manifolds can be joined together to create the desired number of outlets. Branches are brazed to manifold trunk. Use 1/2-inch copper pipe adapters for Uponor QS-style or ProPEX fittings to make connections to 3/8", 1/2" and 5/8" Uponor PEX. Requires a 1-inch copper end cap and applicable transition fitting. The maximum recommended flow rates for these manifolds are: 2-inch, 45 gpm; 1 1/2-inch, 21 gpm; 1-inch, 9 gpm.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F2802075	2" x 6' Copper Valveless Manifold with 24 outlets, 3/4" sweat	-	2	\$581.90
F2801575	1 1/2" x 6' Copper Valveless Manifold with 24 outlets, 3/4" sweat	-	3	\$402.75
F2781050	1" Copper Valveless Manifold with 3 outlets, 1/2" sweat, 2" on center	1	-	\$33.85
F2791050	1" Copper Valveless Manifold with 4 outlets, 1/2" sweat, 2" on center	1	-	\$38.50

## Copper Valveless Manifold



◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## HDPE Manifolds and Accessories

### HDPE Valveless Manifold



Multiple-outlet HDPE Valveless Manifolds are manufactured with 3/4" or 1" 303 stainless steel ProPEX fittings hydraulically pressed onto the outlet nipples. ProPEX connection and manifold are maintenance-free and suitable for direct burial. They're ideal for applications larger than 5,000 square feet or where flow requirements are greater than the capacity of other Uponor manifolds. The HDPE Valveless Manifolds come with standard 12-inch on-center outlet spacing. The maximum recommended flow rates for these manifolds are: 2-inch, 41 gpm; 3-inch, 116 gpm; 4-inch, 226 gpm.

**Note:** ProPEX Tool is required. Only use in systems free of corrodible components or when there is corrosion control. The temperature limitation is 140°F at 80 psi.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
B2252751	2" x 10' HDPE Valveless Manifold (12" o.c.), 10 outlet, 3/4" ProPEX	1	-	\$2,111.95
B2272101	2" x 10' HDPE Valveless Manifold (12" o.c.), 10 outlet, 1" ProPEX	1	-	\$2,111.95
B2252752	2" x 20' HDPE Valveless Manifold (12" o.c.), 20 outlet, 3/4" ProPEX	1	-	\$4,223.85
B2272102	2" x 20' HDPE Valveless Manifold (12" o.c.), 20 outlet, 1" ProPEX	1	-	\$4,223.85
B2253751	3" x 10' HDPE Valveless Manifold (12" o.c.), 10 outlet, 3/4" ProPEX	1	-	\$2,186.50
B2273101	3" x 10' HDPE Valveless Manifold (12" o.c.), 10 outlet, 1" ProPEX	1	-	\$2,186.50
B2253752	3" x 20' HDPE Valveless Manifold (12" o.c.), 20 outlet, 3/4" ProPEX	1	-	\$4,372.85
B2273102	3" x 20' HDPE Valveless Manifold (12" o.c.), 20 outlet, 1" ProPEX	1	-	\$4,372.85
B2254751	4" x 10' HDPE Valveless Manifold (12" o.c.), 10 outlet, 3/4" ProPEX	1	-	\$2,261.00
B2274101	4" x 10' HDPE Valveless Manifold (12" o.c.), 10 outlet, 1" ProPEX	1	-	\$2,261.00
B2254752	4" x 20' HDPE Valveless Manifold (12" o.c.), 20 outlet, 3/4" ProPEX	1	-	\$4,521.95
B2274102	4" x 20' HDPE Valveless Manifold (12" o.c.), 20 outlet, 1" ProPEX	1	-	\$4,521.95

### HDPE Elbow



HDPE 90-degree Elbow makes 2-, 3- and 4-inch 90-degree HDPE-to-HDPE connections. HDPE 45-degree Elbow makes 4-inch, 45-degree HDPE-to-HDPE connections.

**Note:** Fusion weld the connections.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
B2162000	HDPE 90-degree Elbow, 2" HDPE x 2" HDPE	1	-	\$43.45
B2163000	HDPE 90-degree Elbow, 3" HDPE x 3" HDPE	1	-	\$89.55
B2164000	HDPE 90-degree Elbow, 4" HDPE x 4" HDPE	1	-	\$132.10
B2192500	HDPE 45-degree Elbow, 2" HDPE x 2" HDPE	1	-	\$44.40
B2193500	HDPE 45-degree Elbow, 3" HDPE x 3" HDPE	1	-	\$88.50
B2194500	HDPE 45-degree Elbow, 4" HDPE x 4" HDPE	1	-	\$130.95

# Uponor Radiant Heating and Cooling Systems

HDPE Tee makes 2-, 3- and 4-inch, 90-degree HDPE-to-HDPE-to-HDPE connections.

**Note:** Fusion weld the connections.

## HDPE Tee



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
B2172000	HDPE Tee, 2" HDPE x 2" HDPE x 2" HDPE	1	-	\$57.65
B2173000	HDPE Tee, 3" HDPE x 3" HDPE x 3" HDPE	1	-	\$97.60
B2174000	HDPE Tee, 4" HDPE x 4" HDPE x 4" HDPE	1	-	\$143.40

HDPE Flange Adapter converts 2-, 3- and 4-inch HDPE tubing to non-ferrous metal pipe.

**Note:** Fusion weld the connections.

## HDPE Flange Adapter



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
B2182000	2" HDPE Flange Adapter	1	-	\$83.70
B2183000	3" HDPE Flange Adapter	1	-	\$109.45
B2184000	4" HDPE Flange Adapter	1	-	\$122.85

HDPE Flange Backup Ring (steel) is used with HDPE Flange Adapter (B2182000, B2183000 and B2184000).

**Note:** Bolts are not included.

## HDPE Flange Backup Ring



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
B2192000	2" HDPE Flange Backup Ring	1	-	\$69.45
B2193000	3" HDPE Flange Backup Ring	1	-	\$67.75
B2194000	4" HDPE Flange Backup Ring	1	-	\$75.75

# Uponor Radiant Heating and Cooling Systems

## HDPE End Cap



HDPE End Cap is available in 2-, 3- and 4-inch sizes.

**Note:** Fusion weld the connections.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
B2202000	HDPE End Cap, 2" HDPE	1	-	\$23.10
B2203000	HDPE End Cap, 3" HDPE	1	-	\$50.20
B2204000	HDPE End Cap, 4" HDPE	1	-	\$77.55

## HDPE Reducing Coupling



HDPE Reducing Coupling allows coupling between different size HDPE tubing.

**Note:** Fusion weld the connections.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
B2223020	HDPE Reducing Coupling, 3" HDPE x 2" HDPE	1	-	\$53.80
B2224020	HDPE Reducing Coupling, 4" HDPE x 2" HDPE	1	-	\$81.55
B2224030	HDPE Reducing Coupling, 4" HDPE x 3" HDPE	1	-	\$82.25

# Uponor Radiant Heating and Cooling Systems

## Manifold Wall Cabinets

The Manifold Wall Cabinet is adjustable to accommodate a brass manifold mounted in either a 2x4 or 2x6 stud wall. This is a recess-style cabinet and comes with a removable door-trim package. You can mount an Uponor Zone Control Module inside the cabinet for ease of wiring and away from exposure or possible damage.

**Note:** Wall Cabinets are suitable for all brass manifolds except TruFLOW Sr.

Part No.	Item Description	Each Qty.	List Price/Ea.
A2603524	Manifold Wall Cabinet, 35.5" H x 24" W x 3.5" D	1	\$378.85
A2603530	Manifold Wall Cabinet, 35.5" H x 30.5" W x 3.5" D	1	\$424.60
A2603539	Manifold Wall Cabinet, 35.5" H x 39" W x 3.5" D	1	\$461.70

<b>TruFLOW Jr. with Adapter Only<sup>1</sup></b>	<b>A2603524</b>	<b>A2603530</b>	<b>A2603539</b>
2 to 7 Loops	X		
8 to 10 Loops		X	
11 to 12 Loops			X
<b>TruFLOW Jr. with Ball Valves<sup>2</sup></b>	<b>A2603524</b>	<b>A2603530</b>	<b>A2603539</b>
2 to 5 Loops	X		
6 to 8 Loops		X	
10 to 12 Loops			X
<b>TruFLOW Classic with Adapter Only<sup>1</sup></b>	<b>A2603524</b>	<b>A2603530</b>	<b>A2603539</b>
2 to 7 Loops	X		
8 and 10 Loops		X	
12 Loops			X
<b>TruFLOW Classic with Ball Valves<sup>2</sup></b>	<b>A2603524</b>	<b>A2603530</b>	<b>A2603539</b>
2 to 5 Loops	X		
6 to 8 Loops		X	
10 and 12 Loops			X



<sup>1</sup> Two inches added for manifold adapters plus one inch of clearance on each side of the manifold.

<sup>2</sup> Two inches added for manifold adapters plus one inch of clearance on each side of the manifold. Six inches added for the TruFLOW manifold ball valves mounted horizontally.



# Uponor Radiant Heating and Cooling Systems

## Mixing Controls

### Climate Cöntrol™ – Multifunction



The Multifunction Climate Cöntrol™ hydronic controller is designed to simplify installations. This control incorporates all mechanical functions required in radiant floor heating, boiler staging and control, domestic hot water (DHW), snow melt, zone pumping and supply water temperature mixing. Input connections use a simple push-style connector and outputs use Cat5 cables and connector to control the output devices. Use the simple five-button display to set up and activate the functionality required for the individual installation. A data stick is included for the setup configuration to be saved.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> A8020000	Climate Cöntrol – Multifunction Hydronic Control	1	-	\$1,360.00

### Boiler Relay



The Multifunction Climate Cöntrol unit controls and stages up to four boilers. Use the Boiler Relay to mount on or near the boiler. Connect to the Multifunction Climate Cöntrol unit using a standard Cat5 cable with RJ45 ends.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> A9012010	Boiler Relay, On-Off	1	-	\$80.00

### Three-way Modulating Valve with Control



The Multifunction Climate Cöntrol unit provides mixing control of any Three-way Modulating Valves (0-10VDC) up to three different water temperatures in either radiant heating or snow-melting applications. Mount the Modulating Valve Control on or near the valve. Connect to the Multifunction Climate Cöntrol unit using a standard Cat5 cable with RJ45 ends. Uponor offers three-way valves with the valve control pre-wired and mounted to the motor.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> A9013021	¾" Three-way Modulating Valve with control (Cv = 4.7)	1	-	\$615.00
<b>NEW</b> A9013022	1" Three-way Modulating Valve with control (Cv = 10.0)	1	-	\$665.00
<b>NEW</b> A9013023	1¼" Three-way Modulating Valve with control (Cv = 19.0)	1	-	\$780.00
<b>NEW</b> A9013024	1½" Three-way Modulating Valve with control (Cv = 29.0)	1	-	\$1,025.00
<b>NEW</b> A9063020	Modulating Valve Control, 0-10V	1	-	\$75.00

# Uponor Radiant Heating and Cooling Systems

The Multifunction Climate Cöntrol™ unit controls any pump or circulator up to 3A for primary, domestic, snow melt, secondary or zone pump operation. Mount the Pump Relay on or near the pump. Connect to the Multifunction Climate Cöntrol unit using a standard Cat5 cable with RJ45 ends.

## Pump Relay



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> A9013030	Pump Relay	1	-	\$118.00

The Multifunction Climate Cöntrol unit supports snow melt operation for up to two zones through the use of the Uponor Snow-melt Sensor, which wires to the main control panel using a Cat5 cable and RJ45 ends for simple and easy connections.

## Snow-melt Sensor



**Note:** Use the Automatic Snow and Ice Sensor for full automatic operation. The Snow-melt Sensor connects to the Multifunction Climate Cöntrol unit using a standard Cat5 cable with RJ45 ends.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> A9013051	Snow-melt Sensor (includes 10k sensor and well)	1	-	\$325.00
<b>NEW</b> A9013052	Automatic Snow and Ice Sensor (includes cup and sensor)	1	-	\$2,035.00



The Multifunction Climate Cöntrol unit provides a variety of sensors to provide temperature information. The Dual Sensor reads tubing temperatures for secondary (mixed) or primary loops. The Outdoor Sensor connects to the Multifunction Climate Cöntrol with 18-2 AWG thermostat wire to a dedicated terminal. The Domestic Hot Water (DHW) Sensor and Dual Sensor connect using standard Cat5 cables with RJ45 ends to the appropriate device or control.

## Sensors



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> A9012002	Domestic Hot Water (DHW) Sensor, 10k	1	-	\$55.00
<b>NEW</b> A9013001	Dual Sensor, Supply and Return, 10k	1	-	\$77.00
<b>NEW</b> A9011001	Outdoor Sensor, 10k (replacement part)	1	-	\$70.00

# Uponor Radiant Heating and Cooling Systems

## Replacement Parts and Accessories

The following tools, cables and accessories are available to complete and simplify the Multifunction Climate Cönlrol™ installation.

	Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b>	A8010002	Data Stick (replacement part)	1	-	\$40.00
<b>NEW</b>	A8010004	Replacement Display	1	-	\$110.00
<b>NEW</b>	A8110001	Replacement Control Board	1	-	\$950.00
<b>NEW</b>	A9030001	Cat5 Patch Cable (1-ft.)	1	-	\$9.65
<b>NEW</b>	A9030003	Cat5 Patch Cable (3-ft.)	1	-	\$13.90
<b>NEW</b>	A9030007	Cat5 Patch Cable (7-ft.)	1	-	\$20.30
<b>NEW</b>	A9030015	Cat5 Patch Cable (15-ft.)	1	-	\$36.45
<b>NEW</b>	A9030100	Cable Tester	1	-	\$331.20
<b>NEW</b>	A9030200	Cat5 Cable Stripper	1	-	\$96.30
<b>NEW</b>	A9030300	Modular Plug Crimping Tool	1	-	\$184.85
<b>NEW</b>	A9030111	RJ45 Connectors, 50 pack	-	50	\$106.55
<b>NEW</b>	A9031000	Cat5 Wire, 1,000-ft. roll	1	-	\$333.75

## pro Series Controls and Accessories

The pro Series controls and accessory products are available while quantities last. The Climate Cönlrol - Multifunction and associated products beginning on page 30 are replacing pro Series controls.



	Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀	A3040101	pro Series 101	1	-	\$851.75
◀	A3040201	pro Series 201	1	-	\$851.75
◀	A3040212	pro Series 212	1	-	\$1,546.25
◀	A3040311	pro Series 311	1	-	\$1,676.60
◀	A3040411	pro Series 411	1	-	\$4,004.35
◀	A3040612	pro Series 612	1	-	\$1,225.60
◀	A3040701	pro Series 701	1	-	\$1,886.35
◀	A3060070	Outdoor Sensor, replacement part	-	10	\$76.95
◀	A3060071	Universal Sensor, replacement part	-	10	\$70.80
◀	A3040039	Snow Melt Enable Kit, optional part	1	-	\$426.95
◀	A3040090	Snow and Ice Detector, replacement part	1	-	\$1,280.50
◀	A3040091	Snow and Ice Detector Socket, replacement part	1	-	\$280.80
◀	A3060072	Epoxy-coated Slab Sensor, replacement part	1	-	\$172.55
◀	A3130750	¾" Three-way Floating Action Mixing Valve (Cv 4.7)	1	-	\$443.10
◀	A3131000	1" Three-way Floating Action Mixing Valve (Cv 10)	1	-	\$598.10
◀	A3131250	1¼" Three-way Floating Action Mixing Valve (Cv 19)	1	-	\$672.25
◀	A3131500	1½" Three-way Floating Action Mixing Valve (Cv 29)	1	-	\$891.85

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

The 1" Three-way Tempering Valve thermostatically controls water temperature ranges between 80 and 160°F. Non-corrosive reactive valve, 1-inch nominal sweat union connections. Cv 4.0

## Three-way Tempering Valve



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5401112	1" Three-way Tempering Valve	1	-	\$273.60
A5401110	1" Three-way Tempering Valve Replacement Gaskets, set of three	1	-	\$7.95

The self-acting, automatic Differential Pressure By-pass Valve maintains flow rates (e.g., through a low-water content gas boiler), or controls the differential pressure in a hydronic heating system. Valves come with NPT unions.

## Differential Pressure By-pass Valve



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5410750	3/4" Differential Pressure By-pass Valve	1	-	\$263.00
A5411000	1" Differential Pressure By-pass Valve	1	-	\$286.00

# Uponor Radiant Heating and Cooling Systems

## Zoning Controls

### Room Thermostats



The Heat-only Thermostat (A3030101) and the Heat and Cool Thermostat (A3030102) are designed to operate in heating mode over two wires. These types of thermostats obtain their power for operation from taking voltage from the connected wiring. Different from other industry power-sharing thermostats, these eliminate any need for a third wire or battery, which makes the thermostats simple to install, wire and service. For those times when the two-wire thermostats aren't appropriate because of incompatibility with some third-party devices, Uponor also offers the Heat-only, Three-wire Thermostat (A3030103).

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3030101	Heat-only Thermostat, two-wire	1	-	\$86.95
A3030103	Heat-only Thermostat, three-wire	1	-	\$90.50
A3030102	Heat and Cool Thermostat	1	-	\$107.30

### SetPoint 501 Controller



The SetPoint 501 is a single-stage, non-programmable setpoint controller designed to sense air temperature only. Control is not back-lit.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3040501	SetPoint 501, Single-stage SetPoint Controller	1	-	\$155.45
A3040007	Cover plate for 500 series controllers	-	10	\$24.40

### SetPoint 501s Controller



The SetPoint 501s is a single-stage, non-programmable setpoint controller designed to sense air, floor or both temperatures with the ability to select one or the other as the primary sensing point (floor sensor included).

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3041501	SetPoint 501s, Single-stage SetPoint Controller with floor sensor	1	-	\$248.55
A3040079	Floor Sensor, replacement part	1	-	\$77.85
A3040007	Cover plate for 500 series controllers	-	10	\$24.40

# Uponor Radiant Heating and Cooling Systems

The SetPoint 511s is a single-stage, seven-day/24-hour programmable setpoint controller designed to sense air and/or floor temperature with the ability to select one or the other as the primary sensing point (floor sensor included).

## Programmable SetPoint 511s Controller



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3041511	SetPoint 511s, Single-stage Programmable Controller with floor sensor	1	-	\$311.00
A3040079	Floor Sensor, replacement part	1	-	\$77.85
A3040007	Cover plate for 500 series controllers	-	10	\$24.40

The SetPoint 512 is a two-stage, heat/heat or heat/cool, seven-day/24-hour programmable setpoint controller designed to sense air and/or floor temperature with the ability to select one or the other as the primary sensing point (floor sensor not included).

## Programmable SetPoint 512 Controller



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3040512	SetPoint 512, Two-stage Programmable Controller	1	-	\$297.20
A3040079	Floor Sensor, replacement part	1	-	\$77.85
A3040007	Cover plate for 500 series controllers	-	10	\$24.40

Features include flexible setpoint range (-40°F to 239°F), adjustable differential and time delay ranges and an LCD display. The control can be wired up to 500 feet using 18 AWG wire. Use the Universal Sensor (A3060071), included with the setpoint control, for strap-on or immersion well. For direct burial, use the optional sensor (A3060072) for slab sensing.

## SetPoint 150 Controller



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3040150	SetPoint 150 Controller	1	-	\$360.00
A3060071	Universal Sensor, replacement part	-	10	\$70.80
A3060072	Epoxy-coated Slab Sensor, replacement part	1	-	\$172.55

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## Zone Control Module



The Zone Control Module is designed for use with Uponor Thermostats, Motorized Valve Actuators (MVAs), Thermal Actuators or Zone Valves. The Zone Control Module provides connection between the thermostats and their respective actuators or zone valves; and the connection between the end switches and the pump or boiler relay. The modules are internally fused for protection from over current or direct shorts from the power supply transformer. The end switch circuit is also protected from over current, and a 2 amp fuse is factory installed.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3030003	Three-zone Control Module	1	-	\$96.75
A3030004	Four-zone Control Module	1	-	\$117.60
A3030009	Replacement Fuse (2 amps), 4/pkg.	1	-	\$13.40
A3030010	Replacement Fuse (4 amps), 4/pkg.	1	-	\$13.40

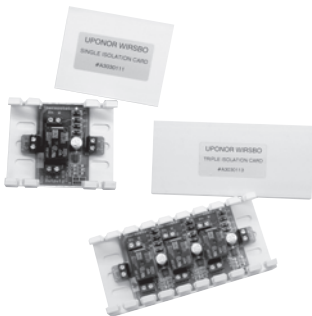
## Powered Zone Controller



The Powered Four- and Six-zone Controllers include transformers for low-voltage operations and relays to operate line-voltage controls. Fully fuse-protected, they also include an isolated end switch and built-in DHW priority switch. The indicator lights show full functionality of the products wired to the Powered Zone Controllers. A 3-amp delay fuse protects the Powered Four-zone Controller. A 7-amp delay fuse protects the Powered Six-zone Controller.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3080404	Powered Four-zone Controller	1	-	\$206.60
A3080406	Powered Six-zone Controller	1	-	\$263.00

## Isolation Card



The low-voltage (24VAC) Isolation Card provides separation or isolation between power-sharing thermostats and the loads they control. The cards also isolate power variations caused by third-party components.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3030111	Single Isolation Card (24VAC)	1	-	\$54.55
A3030113	Triple Isolation Card (24VAC)	1	-	\$119.70

# Uponor Radiant Heating and Cooling Systems

Slow-opening thermal actuator (24VAC) mounts directly onto TruFLOW Valved Manifolds. It provides individual loop flow control on a multi-zoned manifold (manifold serving more than one zone). Thermal Actuator includes end switch for activation of relay (pump), heat plant or other auxiliary devices.

## Thermal Actuator



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3010522	Thermal Actuator, four-wire	1	100	\$81.50

The Motorized Valve Actuator (MVA) (24VAC) features quick-opening motorized valve head that mounts directly onto TruFLOW Valved Manifolds. The open/close indicator allows for easy visual inspection. It provides individual flow control on a multi-zoned manifold (manifold serving more than one zone). MVA includes end switch for activation of relay (pump), heat plant or other auxiliary devices. Do not mount actuators upside down.

## Motorized Valve Actuator (MVA)



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3020522	Motorized Valve Actuator (MVA), four-wire	1	50	\$110.65

Four-wire Zone Valve (24 VAC) features 3/4- and 1-inch sweat connections. It provides flow control for a single-zoned manifold (manifold serving one zone), and has a built-in flow-balancing feature. The zone valve includes end switch for activation of relay (pump), heat plant or other auxiliary devices. Do not mount actuators upside down.

## Zone Valve



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3010525	3/4" Thermal Zone Valve, four-wire	1	25	\$183.35
A3010526	1" Thermal Zone Valve, four-wire	1	25	\$196.20
A3070525	3/4" MVA Zone Valve, four-wire	1	25	\$224.10
A3070526	1" MVA Zone Valve, four-wire	1	25	\$236.60



# Uponor Radiant Heating and Cooling Systems

## Pump Relay



The single-zone pump relay controls the operation of a single circulator or pump from a 24-volt signal. Relay includes secondary low-voltage terminals for boiler operation.

The Three-zone Multi-pump relay controls the operation of up to three pumps or circulators from dedicated 24-volt signals. Relay includes secondary low-voltage terminals for boiler operation and DHW priority options.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3010100	Single-zone Pump Relay	1	-	\$107.95
A3080301	Three-zone Multi-pump Relay	1	-	\$301.10

## Transformer



50 VA Transformer (24VAC) comes with a 4" x 4" metal mounting plate.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3050050	50 VA Transformer	1	-	\$37.10

# Uponor Radiant Heating and Cooling Systems

## Fully Assembled Panels

The proPANEL 90 unit offers a simple pumping station, used for radiant heating or as a high-temperature loop. The proPANEL 90 is pre-wired to a control interface, meaning the pump relay is connected to the control interface using a Cat5 cable. The panel is prepared to connect to the Multifunction Climate Cöntrol™ hydronic controller.

The panel features 1-inch steel piping. The maximum recommended flow is 9 gpm.

Panel dimensions are 18" wide, 26" high and 7" deep; weighs 26 lbs.

**proPANEL 90**



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> A3509000	proPANEL 90	1	-	\$1,760.00

The proPANEL 90Z unit offers a pumping station with zoning capability (two zones). Featuring 1-inch valves for zoning, the proPANEL 90Z is pre-wired to a control interface, meaning the pump relay is connected to the control interface using a Cat5 cable. The two actuators controlling the valves are also pre-wired into the interface. The panel is prepared to connect to the Multifunction Climate Cöntrol hydronic controller. The panel features 1-inch stainless steel piping on the primary side and 3/4-inch stainless steel piping on the secondary side. The maximum recommended flow is 4.5 gpm per outlet.

The panel features 1-inch stainless steel piping. The maximum recommended flow is 9 gpm.

Panel dimensions are 18" wide, 26" high and 7" deep; weighs 32 lbs.

**proPANEL 90Z**



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> A3509002	proPANEL 90Z	1	-	\$2,550.00

The proPANEL 90M unit offers a one-temperature mixing and pumping station using a three-way motorized mixing valve (0-10V). The proPANEL 90MZ is controlled by connecting it to a Multifunction Climate Cöntrol.

The proPANEL 90M is pre-wired to a control interface, meaning the pump relay and the mixing valve is connected to the control interface using a Cat5 cable. Sensors are attached to the tubing to monitor the secondary supply temperature at the selected level. They are also pre-wired to the control interface.

The panel features 1-inch stainless steel piping. The maximum recommended flow is 9 gpm.

Panel dimensions are 18" wide, 26" high and 7" deep; weighs 30 lbs.

**proPANEL 90M**



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> A3509500	proPANEL 90M	1	-	\$2,380.00

# Uponor Radiant Heating and Cooling Systems

## proPANEL 90MZ



The proPANEL 90MZ unit offers a one-temperature mixing and pumping station with zoning capacity (two zones). The proPANEL 90MZ is using 1-inch valves for zoning and a three-way motorized mixing valve (0-10V) for mixing. To control the proPANEL 90MZ, it must connect to a Uponor Multifunction Climate Cöntrol™. The proPANEL 90MZ is pre-wired to a control interface, meaning the pump relay and the mixing valve are connected to the control interface using a Cat5 cable. Sensors are attached to the tubing to maintain the secondary supply temperature at the selected level, those are also pre-wired to the control interface. The two actuators controlling the valves are also pre-wired into the control interface.

The Panel features 1" stainless steel piping. The maximum recommended flow is 4.5 gpm per outlet.

Panel dimensions are 18" wide, 26" high and 7" deep; weighs 37 lbs.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A3509502	proPANEL 90MZ	1	-	\$3,250.00

## ProPEX Fittings

### ProPEX Ring



A ProPEX Ring is required to make a ProPEX connection. The 1/2" rings now include a leading edge chamfer and integral stop edge to further simplify the use of ProPEX fittings. Red and blue print on the rings distinguishes hot and cold lines.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4690301	ProPEX Ring, 3/8" (red print)	50	500	\$0.17
Q4690302	ProPEX Ring, 3/8" (blue print)	50	500	\$0.17
<b>NEW</b> Q4690511	ProPEX Ring with Stop, 1/2" (red print)	50	2,000	\$0.17
<b>NEW</b> Q4690512	ProPEX Ring with Stop, 1/2" (blue print)	50	2,000	\$0.17
Q4680625	ProPEX Ring, 5/8" (black print)	50	1,000	\$0.35
Q4690751	ProPEX Ring, 3/4" (red print)	50	1,000	\$0.30
Q4690752	ProPEX Ring, 3/4" (blue print)	50	1,000	\$0.30
Q4681000	ProPEX Ring, 1" (blue print)	50	500	\$0.50
Q4681250	ProPEX Ring, 1 1/4" (black print)	10	200	\$0.80
Q4681500	ProPEX Ring, 1 1/2" (black print)	5	100	\$1.05
Q4682000	ProPEX Ring, 2" (blue print)	10	100	\$2.15

### ProPEX EP Coupling



ProPEX EP Coupling makes PEX-to-PEX connections.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4773838	ProPEX EP Coupling, 3/8" PEX x 3/8" PEX	25	100	\$1.30
Q4775050	ProPEX EP Coupling, 1/2" PEX x 1/2" PEX	25	100	\$1.35
Q4776363	ProPEX EP Coupling, 5/8" PEX x 5/8" PEX	10	100	\$3.55
Q4777575	ProPEX EP Coupling, 3/4" PEX x 3/4" PEX	25	100	\$1.65
Q4771010	ProPEX EP Coupling, 1" PEX x 1" PEX	10	100	\$2.50

# Uponor Radiant Heating and Cooling Systems

ProPEX Brass Coupling makes PEX-to-PEX connections.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.


Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4543838	ProPEX Brass Coupling, 3/8" PEX x 3/8" PEX	25	100	\$3.05
Q4545050	ProPEX Brass Coupling, 1/2" PEX x 1/2" PEX	25	100	\$2.70
Q4546363	ProPEX Brass Coupling, 5/8" PEX x 5/8" PEX	10	100	\$5.20
Q4547575	ProPEX Brass Coupling, 3/4" PEX x 3/4" PEX	25	100	\$5.65
Q4541010	ProPEX Brass Coupling, 1" PEX x 1" PEX	10	100	\$10.00
Q4542020	ProPEX Brass Coupling, 2" PEX x 2" PEX	5	-	\$102.95

## ProPEX Brass Coupling

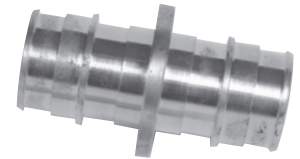


ProPEX DZR Brass Coupling makes PEX-to-PEX connections. DZR fittings are safe for direct burial in soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4547575	ProPEX DZR Brass Coupling, 3/4" PEX x 3/4" PEX	-	10	\$8.80
G4541010	ProPEX DZR Brass Coupling, 1" PEX x 1" PEX	-	10	\$12.30
G4541313	ProPEX DZR Brass Coupling, 1 1/4" PEX x 1 1/4" PEX	-	10	\$27.30
G4541515	ProPEX DZR Brass Coupling, 1 1/2" PEX x 1 1/2" PEX	-	10	\$42.05
 G4542020	ProPEX DZR Brass Coupling, 2" PEX x 2" PEX	-	5	\$151.95

## ProPEX DZR Brass Coupling



ProPEX Brass to Polyethylene (PE) Coupling transitions black PE tubing to Uponor PEX tubing. Product does not include hose clamps for the PE side of the coupling.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

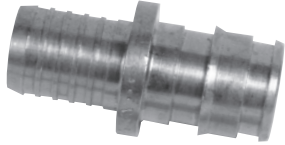
Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4591010	ProPEX Brass to PE Coupling, 1" PEX x 1" PE	10	100	\$17.65

## ProPEX Brass to Polyethylene (PE) Coupling



# Uponor Radiant Heating and Cooling Systems

## ProPEX Brass to Polybutylene (PB) Coupling



ProPEX Brass to Polybutylene (PB) Coupling transitions PB tubing to Uponor PEX tubing. Product does not include the crimp ring for the PB side of the coupling.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4585050	ProPEX Brass to PB Coupling, 1/2" PEX x 1/2" PB	25	100	\$5.00
Q4587575	ProPEX Brass to PB Coupling, 3/4" PEX x 3/4" PB	25	100	\$8.90

## ProPEX EP Elbow



ProPEX EP Elbow makes tight 90-degree connections for Uponor PEX tubing in supply and return mains.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4760500	ProPEX EP Elbow, 1/2" PEX x 1/2" PEX	25	100	\$1.60
Q4760750	ProPEX EP Elbow, 3/4" PEX x 3/4" PEX	25	100	\$1.95
Q4761000	ProPEX EP Elbow, 1" PEX x 1" PEX	10	100	\$4.10
Q4761250	ProPEX EP Elbow, 1 1/4" PEX x 1 1/4" PEX	10	100	\$10.60
Q4761500	ProPEX EP Elbow, 1 1/2" PEX x 1 1/2" PEX	10	100	\$13.45

## ProPEX Brass Elbow



ProPEX Brass Elbow makes tight 90-degree connections for Uponor PEX tubing in supply and return mains.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4710500	ProPEX Brass Elbow, 1/2" PEX x 1/2" PEX	25	100	\$4.55
Q4710625	ProPEX Brass Elbow, 5/8" PEX x 5/8" PEX	25	100	\$8.10
Q4710750	ProPEX Brass Elbow, 3/4" PEX x 3/4" PEX	25	100	\$6.75
Q4711000	ProPEX Brass Elbow, 1" PEX x 1" PEX	10	100	\$11.15
Q4712000	ProPEX Brass Elbow, 2" PEX x 2" PEX	5	-	\$143.10

# Uponor Radiant Heating and Cooling Systems

ProPEX DZR Brass Elbow makes tight 90-degree connections for Uponor PEX tubing in supply and return mains. DZR brass is safe for direct burial in soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4711250	ProPEX DZR Brass Elbow, 1¼" PEX x 1¼" PEX	-	10	\$37.30
G4711500	ProPEX DZR Brass Elbow, 1½" PEX x 1½" PEX	-	10	\$69.10

**ProPEX DZR Brass Elbow**



ProPEX Brass Elbow with MIP makes 90-degree connections for ½" Uponor PEX tubing to ½" male NPT thread.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4125050	ProPEX Brass Elbow, ½" PEX x ½" MIP	25	100	\$7.95

**ProPEX Brass Elbow with MIP**



ProPEX EP Tee makes diverting connections for Uponor PEX tubing in supply and return mains. Branch size is listed last in the part description.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4755050	ProPEX EP Tee, ½" PEX x ½" PEX x ½" PEX	25	100	\$1.60
Q4757575	ProPEX EP Tee, ¾" PEX x ¾" PEX x ¾" PEX	25	100	\$2.55
Q4751010	ProPEX EP Tee, 1" PEX x 1" PEX x 1" PEX	10	100	\$4.60
Q4751313	ProPEX EP Tee, 1¼" PEX x 1¼" PEX x 1¼" PEX	10	100	\$12.00
Q4751515	ProPEX EP Tee, 1½" PEX x 1½" PEX x 1½" PEX	10	100	\$16.05

**ProPEX EP Tee**



# Uponor Radiant Heating and Cooling Systems

## ProPEX Brass Tee



ProPEX Brass Tee makes diverting connections for Uponor PEX tubing in supply and return mains. Branch size is listed last in the part description.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4705050	ProPEX Brass Tee, 1/2" PEX x 1/2" PEX x 1/2" PEX	25	100	\$5.55
Q4707575	ProPEX Brass Tee, 3/4" PEX x 3/4" PEX x 3/4" PEX	25	100	\$8.95
Q4701010	ProPEX Brass Tee, 1" PEX x 1" PEX x 1" PEX	10	100	\$16.70
Q4702000	ProPEX Brass Tee, 2" PEX x 2" PEX x 2" PEX	5	-	\$175.05

## ProPEX DZR Brass Tee



ProPEX DZR Brass Tee makes diverting connections for Uponor PEX tubing in supply and return mains. Branch size is listed last in the part description. DZR brass is safe for direct burial in soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4701250	ProPEX DZR Brass Tee, 1 1/4" PEX x 1 1/4" PEX x 1 1/4"	-	10	\$62.15
G4701500	ProPEX DZR Brass Tee, 1 1/2" PEX x 1 1/2" PEX x 1 1/2"	-	10	\$59.85

## ProPEX EP Reducing Tee



ProPEX EP Reducing Tee makes diverting connections for Uponor PEX tubing in supply and return mains. Branch size is listed last in the part description.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
<b>NEW</b> Q4755575	ProPEX EP Reducing Tee, 1/2" PEX x 1/2" PEX x 3/4" PEX	25	100	\$6.25
Q4757555	ProPEX EP Reducing Tee, 3/4" PEX x 1/2" PEX x 1/2" PEX	25	100	\$2.45
Q4757557	ProPEX EP Reducing Tee, 3/4" PEX x 1/2" PEX x 3/4" PEX	25	100	\$2.45
Q4757550	ProPEX EP Reducing Tee, 3/4" PEX x 3/4" PEX x 1/2" PEX	25	100	\$2.15
<b>NEW</b> Q4757710	ProPEX EP Reducing Tee, 3/4" PEX x 3/4" PEX x 1" PEX	10	100	\$9.30
Q4751775	ProPEX EP Reducing Tee, 1" PEX x 3/4" PEX x 3/4" PEX	10	100	\$4.05
Q4751751	ProPEX EP Reducing Tee, 1" PEX x 3/4" PEX x 1" PEX	10	100	\$4.85
Q4751150	ProPEX EP Reducing Tee, 1" PEX x 1" PEX x 1/2" PEX	10	100	\$4.25
Q4751175	ProPEX EP Reducing Tee, 1" PEX x 1" PEX x 3/4" PEX	10	100	\$4.65
Q4751317	ProPEX EP Reducing Tee, 1 1/4" PEX x 1" PEX x 3/4" PEX	10	100	\$9.50
Q4751311	ProPEX EP Reducing Tee, 1 1/4" PEX x 1" PEX x 1" PEX	10	100	\$11.10
Q4751337	ProPEX EP Reducing Tee, 1 1/4" PEX x 1 1/4" PEX x 3/4" PEX	10	100	\$11.15
Q4751331	ProPEX EP Reducing Tee, 1 1/4" PEX x 1 1/4" PEX x 1" PEX	10	100	\$11.50
Q4751517	ProPEX EP Reducing Tee, 1 1/2" PEX x 1" PEX x 3/4" PEX	10	100	\$13.35
Q4751511	ProPEX EP Reducing Tee, 1 1/2" PEX x 1" PEX x 1" PEX	10	100	\$13.35
Q4751557	ProPEX EP Reducing Tee, 1 1/2" PEX x 1 1/2" PEX x 3/4" PEX	10	100	\$14.35
Q4751551	ProPEX EP Reducing Tee, 1 1/2" PEX x 1 1/2" PEX x 1" PEX	10	100	\$14.75
Q4751553	ProPEX EP Reducing Tee, 1 1/2" PEX x 1 1/2" PEX x 1 1/4" PEX	10	100	\$15.15

# Uponor Radiant Heating and Cooling Systems

ProPEX Brass Reducing Tee makes diverting connections for Uponor PEX tubing in supply and return mains. Branch size is listed last in the part description.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4705575	ProPEX Brass Reducing Tee, 1/2" PEX x 1/2" PEX x 3/4" PEX	25	100	\$9.40
Q4707555	ProPEX Brass Reducing Tee, 3/4" PEX x 1/2" PEX x 1/2" PEX	25	100	\$9.45
Q4707557	ProPEX Brass Reducing Tee, 3/4" PEX x 1/2" PEX x 3/4" PEX	25	100	\$8.95
Q4707550	ProPEX Brass Reducing Tee, 3/4" PEX x 3/4" PEX x 1/2" PEX	25	100	\$8.85
Q4707710	ProPEX Brass Reducing Tee, 3/4" PEX x 3/4" PEX x 1" PEX	10	100	\$14.30
Q4701775	ProPEX Brass Reducing Tee, 1" PEX x 3/4" PEX x 3/4" PEX	10	100	\$16.70
Q4701751	ProPEX Brass Reducing Tee, 1" PEX x 3/4" PEX x 1" PEX	10	100	\$16.70
Q4701150	ProPEX Brass Reducing Tee, 1" PEX x 1" PEX x 1/2" PEX	10	100	\$16.70
Q4701175	ProPEX Brass Reducing Tee, 1" PEX x 1" PEX x 3/4" PEX	10	100	\$16.70
Q4702575	ProPEX Brass Reducing Tee, 2" PEX x 1 1/2" PEX x 3/4" PEX	5	-	\$148.70
Q4702051	ProPEX Brass Reducing Tee, 2" PEX x 1 1/2" PEX x 1" PEX	5	-	\$142.95
Q4702053	ProPEX Brass Reducing Tee, 2" PEX x 1 1/2" PEX x 1 1/4" PEX	5	-	\$168.45
Q4702055	ProPEX Brass Reducing Tee, 2" PEX x 1 1/2" PEX x 1 1/2" PEX	5	-	\$180.20
Q4702275	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x 3/4" PEX	5	-	\$148.70
Q4702210	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x 1" PEX	5	-	\$148.45
Q4702213	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x 1 1/4" PEX	5	-	\$161.10
Q4702215	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x 1 1/2" PEX	5	-	\$170.80

**ProPEX Brass Reducing Tee**



ProPEX DZR Brass Reducing Tee makes diverting connections for Uponor PEX tubing in supply and return mains. Branch size is listed last in the part description. DZR Brass Fittings are safe for direct burial in soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4701317	ProPEX DZR Brass Reducing Tee, 1 1/4" PEX x 1" PEX x 3/4" PEX	-	10	\$62.20
G4701311	ProPEX DZR Brass Reducing Tee, 1 1/4" PEX x 1" PEX x 1" PEX	-	10	\$63.05
G4701337	ProPEX DZR Brass Reducing Tee, 1 1/4" PEX x 1 1/4" PEX x 3/4" PEX	-	10	\$44.05
G4701331	ProPEX DZR Brass Reducing Tee, 1 1/4" PEX x 1 1/4" PEX x 1" PEX	-	10	\$44.40
G4701537	ProPEX DZR Brass Reducing Tee, 1 1/2" PEX x 1 1/4" PEX x 3/4" PEX	-	10	\$81.05
G4701531	ProPEX DZR Brass Reducing Tee, 1 1/2" PEX x 1 1/4" PEX x 1" PEX	-	10	\$79.80
G4701533	ProPEX DZR Brass Reducing Tee, 1 1/2" PEX x 1 1/4" PEX x 1 1/4" PEX	-	10	\$83.85
G4701557	ProPEX DZR Brass Reducing Tee, 1 1/2" PEX x 1 1/2" PEX x 3/4" PEX	-	10	\$86.45
G4701551	ProPEX DZR Brass Reducing Tee, 1 1/2" PEX x 1 1/2" PEX x 1" PEX	-	10	\$80.75
G4701553	ProPEX DZR Brass Reducing Tee, 1 1/2" PEX x 1 1/2" PEX x 1 1/4" PEX	-	10	\$100.05

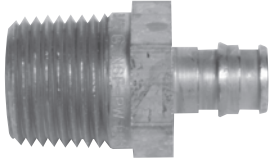
**ProPEX DZR Brass Reducing Tee**





# Uponor Radiant Heating and Cooling Systems

## ProPEX Brass Male Threaded Adapter

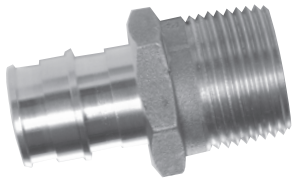


ProPEX Brass Male Threaded Adapter connects Uponor PEX tubing to male NPT threads and are intended as transition fittings from metal to PEX.

**Note:** ProPEX tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4523850	ProPEX Brass Male Threaded Adapter, 3/8" PEX x 1/2" NPT	25	100	\$3.70
Q4525050	ProPEX Brass Male Threaded Adapter, 1/2" PEX x 1/2" NPT	25	100	\$3.00
Q4525075	ProPEX Brass Male Threaded Adapter, 1/2" PEX x 3/4" NPT	25	100	\$5.40
Q4526375	ProPEX Brass Male Threaded Adapter, 5/8" PEX x 3/4" NPT	10	100	\$6.25
Q4527575	ProPEX Brass Male Threaded Adapter, 3/4" PEX x 3/4" NPT	25	100	\$5.35
Q4527510	ProPEX Brass Male Threaded Adapter, 3/4" PEX x 1" NPT	10	100	\$8.90
Q4521075	ProPEX Brass Male Threaded Adapter, 1" PEX x 3/4" NPT	10	100	\$7.55
Q4521010	ProPEX Brass Male Threaded Adapter, 1" PEX x 1" NPT	10	100	\$10.70
Q4522020	ProPEX Brass Male Threaded Adapter, 2" PEX x 2" NPT	5	-	\$95.05

## ProPEX DZR Brass Male Threaded Adapter



ProPEX DZR Brass Male Threaded Adapter connects Uponor PEX tubing to male NPT threads and are intended as transition fittings from metal to PEX. DZR Brass Fittings are safe for direct burial in soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4527575	ProPEX DZR Brass Male Threaded Adapter, 3/4" PEX x 3/4" NPT	-	10	\$12.25
G4521010	ProPEX DZR Brass Male Threaded Adapter, 1" PEX x 1" NPT	-	10	\$17.25
G4521313	ProPEX DZR Brass Male Threaded Adapter, 1 1/4" PEX x 1 1/4" NPT	-	10	\$26.10
G4521515	ProPEX DZR Brass Male Threaded Adapter, 1 1/2" PEX x 1 1/2" NPT	-	10	\$36.10
G4522020	ProPEX DZR Brass Male Threaded Adapter, 2" PEX x 2" NPT	-	5	\$149.70

## ProPEX Brass Female Threaded Adapter



ProPEX Brass Female Threaded Adapter connects Uponor PEX tubing to female NPT threads and are intended as transition fittings from metal to PEX.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4575050	ProPEX Brass Female Threaded Adapter, 1/2" PEX x 1/2" NPT	25	100	\$6.15
Q4575075	ProPEX Brass Female Threaded Adapter, 1/2" PEX x 3/4" NPT	25	100	\$6.75
Q4576375	ProPEX Brass Female Threaded Adapter, 5/8" PEX x 3/4" NPT	10	100	\$7.90
Q4577575	ProPEX Brass Female Threaded Adapter, 3/4" PEX x 3/4" NPT	25	100	\$6.90
Q4577510	ProPEX Brass Female Threaded Adapter, 3/4" PEX x 1" NPT	10	100	\$16.05
Q4571075	ProPEX Brass Female Threaded Adapter, 1" PEX x 3/4" NPT	10	100	\$11.75
Q4571010	ProPEX Brass Female Threaded Adapter, 1" PEX x 1" NPT	10	100	\$14.60
Q4572020	ProPEX Brass Female Threaded Adapter, 2" PEX x 2" NPT	5	-	\$160.75

# Uponor Radiant Heating and Cooling Systems

ProPEX DZR Brass Female Threaded Adapters connect Uponor PEX tubing to female NPT threads and are intended as transition fittings from metal to PEX. DZR Brass Fittings are safe for direct burial in soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4577575	ProPEX DZR Brass Female Threaded Adapter, 3/4" PEX x 3/4" NPT	-	10	\$15.65
G4571010	ProPEX DZR Brass Female Threaded Adapter, 1" PEX x 1" NPT	-	10	\$17.80
G4571313	ProPEX DZR Brass Female Threaded Adapter, 1 1/4" PEX x 1 1/4" NPT	-	10	\$40.95
G4571515	ProPEX DZR Brass Female Threaded Adapter, 1 1/2" PEX x 1 1/2" NPT	-	10	\$48.45

**ProPEX DZR Brass Female Threaded Adapter**

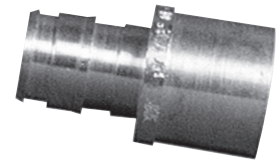


ProPEX Brass Sweat Adapter transitions Uponor PEX tubing to copper pipe.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4513850	ProPEX Brass Sweat Adapter, 3/8" PEX x 1/2" Copper	25	100	\$3.15
Q4515050	ProPEX Brass Sweat Adapter, 1/2" PEX x 1/2" Copper	25	100	\$2.15
Q4515075	ProPEX Brass Sweat Adapter, 1/2" PEX x 3/4" Copper	25	100	\$4.25
Q4516350	ProPEX Brass Sweat Adapter, 5/8" PEX x 1/2" Copper	10	100	\$4.45
Q4516375	ProPEX Brass Sweat Adapter, 5/8" PEX x 3/4" Copper	10	100	\$4.90
Q4517550	ProPEX Brass Sweat Adapter, 3/4" PEX x 1/2" Copper	25	100	\$4.70
Q4517575	ProPEX Brass Sweat Adapter, 3/4" PEX x 3/4" Copper	25	100	\$4.90
Q4517510	ProPEX Brass Sweat Adapter, 3/4" PEX x 1" Copper	10	100	\$7.45
Q4511010	ProPEX Brass Sweat Adapter, 1" PEX x 1" Copper	10	100	\$7.60
Q4512020	ProPEX Brass Sweat Adapter, 2" PEX x 2" Copper	5	-	\$78.85

**ProPEX Brass Sweat Adapter**



ProPEX DZR Brass Sweat Adapter transitions Uponor PEX tubing to copper pipe. DZR Brass Fittings are safe for direct burial in the soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4517575	ProPEX DZR Brass Sweat Adapter, 3/4" PEX x 3/4" Copper	-	10	\$10.90
G4511010	ProPEX DZR Brass Sweat Adapter, 1" PEX x 1" Copper	-	10	\$14.45
G4511313	ProPEX DZR Brass Sweat Adapter, 1 1/4" PEX x 1 1/4" Copper	-	10	\$22.65
G4511515	ProPEX DZR Brass Sweat Adapter, 1 1/2" PEX x 1 1/2" Copper	-	10	\$32.55

**ProPEX DZR Brass Sweat Adapter**



# Uponor Radiant Heating and Cooling Systems

## ProPEX Brass Fitting Adapter

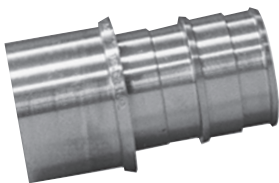


ProPEX Brass Fitting Adapter transitions Uponor PEX tubing to copper fittings.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4503850	ProPEX Brass Fitting Adapter, 3/8" PEX x 1/2" Copper	25	100	\$2.95
Q4505050	ProPEX Brass Fitting Adapter, 1/2" PEX x 1/2" Copper	25	100	\$2.10
Q4505075	ProPEX Brass Fitting Adapter, 1/2" PEX x 3/4" Copper	25	100	\$3.60
Q4506350	ProPEX Brass Fitting Adapter, 5/8" PEX x 1/2" Copper	10	100	\$4.40
Q4506375	ProPEX Brass Fitting Adapter, 5/8" PEX x 3/4" Copper	10	100	\$4.45
Q4507550	ProPEX Brass Fitting Adapter, 3/4" PEX x 1/2" Copper	25	100	\$4.20
Q4507575	ProPEX Brass Fitting Adapter, 3/4" PEX x 3/4" Copper	25	100	\$4.50
Q4507510	ProPEX Brass Fitting Adapter, 3/4" PEX x 1" Copper	10	100	\$5.50
Q4501010	ProPEX Brass Fitting Adapter, 1" PEX x 1" Copper	10	100	\$8.10
Q4502020	ProPEX Brass Fitting Adapter, 2" PEX x 2" Copper	5	-	\$70.10

## ProPEX DZR Brass Fitting Adapter



ProPEX DZR Brass Fitting Adapter transitions Uponor PEX tubing to copper fittings. DZR Brass Fittings are safe for direct burial in soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4501313	ProPEX DZR Brass Fitting Adapter, 1 1/4" PEX x 1 1/4" Copper	-	10	\$19.95
G4501515	ProPEX DZR Brass Fitting Adapter, 1 1/2" PEX x 1 1/2" Copper	-	10	\$32.95

## ProPEX EP Plug



ProPEX EP Plug temporarily or permanently terminates the end of Uponor PEX tubing.

**Note:** ProPEX tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4350500	ProPEX EP Plug for 1/2" PEX	25	100	\$1.05
Q4350750	ProPEX EP Plug for 3/4" PEX	25	100	\$1.40
Q4351000	ProPEX EP Plug for 1" PEX	10	100	\$2.20
<b>NEW</b> Q4351250	ProPEX EP Plug for 1 1/4" PEX	10	100	\$12.30
<b>NEW</b> Q4351500	ProPEX EP Plug for 1 1/2" PEX	10	100	\$18.90
<b>NEW</b> Q4352000	ProPEX EP Plug for 2" PEX	5	50	\$32.75

# Uponor Radiant Heating and Cooling Systems

ProPEX Brass Plug temporarily or permanently terminates the end of Uponor PEX tubing.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4533838	ProPEX Brass Plug for 3/8" PEX	25	100	\$2.60
Q4535050	ProPEX Brass Plug for 1/2" PEX	25	100	\$1.85
Q4536363	ProPEX Brass Plug for 5/8" PEX	10	100	\$3.85
Q4537575	ProPEX Brass Plug for 3/4" PEX	25	100	\$3.65
Q4531000	ProPEX Brass Plug for 1" PEX	10	100	\$8.55
Q4532000	ProPEX Brass Plug for 2" PEX	5	-	\$98.05

## ProPEX Brass Plug



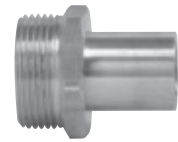
## Manifold Adapters and Fittings

The Brass Sweat Adapter allows either a straight copper pipe or a copper fitting adapter to sweat to the brass manifold adapter. The R32 threaded side couples with the R32 union connection on the brass manifolds.

**Note:** This fitting is not compatible with the TruFLOW Sr.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4143210	Brass Manifold Adapter, R32 x 3/4" Adapter or 1" Fitting Adapter	-	10	\$19.95
A4133210	Brass Manifold Adapter, R32 x 1" Adapter or 1 1/4" Fitting Adapter	-	10	\$19.95

## Brass Manifold Combination Adapter/Fitting Adapter

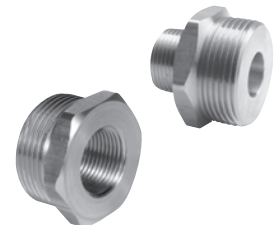


Threaded Brass Manifold Adapter transitions the R32 manifold union nut to PEX or MLC tubing with QS-style fittings.

**Note:** This fitting is not compatible with the TruFLOW Sr.

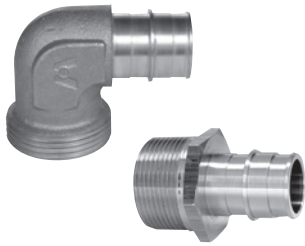
Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4143220	Threaded Brass Manifold Straight Adapter, R32 x R20	-	10	\$24.65
A4143225	Threaded Brass Manifold Straight Adapter, R32 x R25	-	10	\$24.65
A2133275	Threaded Brass Manifold Bushing, R32 Male x 3/4" Female NPT	-	10	\$19.90
A2123210	Threaded Brass Manifold Bushing, R32 Male x 1" Female NPT	-	10	\$16.70

## Threaded Brass Manifold Adapter and Bushing



# Uponor Radiant Heating and Cooling Systems

## ProPEX Manifold Adapter



ProPEX Manifold Adapter for brass manifolds transitions from the R32 manifold union nut to 3/4" and 1" Uponor PEX tubing.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately. This fitting is not compatible with the TruFLOW Sr.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q4143275	ProPEX Manifold Straight Adapter, R32 x 3/4" ProPEX	-	10	\$27.20
Q4143210	ProPEX Manifold Straight Adapter, R32 x 1" ProPEX	-	10	\$25.80
Q4153275	ProPEX Manifold Elbow Adapter, R32 x 3/4" ProPEX	-	10	\$27.20
Q4153210	ProPEX Manifold Elbow Adapter, R32 x 1" ProPEX	-	10	\$25.95

## MLC Press Fitting Manifold Adapter



MLC Press Fitting Manifold Adapter transitions R32 manifold connections to 5/8", 3/4" and 1" MLC tubing.

**Note:** The Mini-Press Battery Tool or MLC Press Fitting Manual Tool is required. This fitting is not compatible with the TruFLOW Sr.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4143263	MLC Press Fitting Manifold Straight Adapter, R32 x 5/8" MLC	-	10	\$26.65
D4143275	MLC Press Fitting Manifold Straight Adapter, R32 x 3/4" MLC	-	10	\$26.65
D4143210	MLC Press Fitting Manifold Straight Adapter, R32 x 1" MLC	-	10	\$26.65
D4153263	MLC Press Fitting Manifold Elbow Adapter, R32 x 5/8" MLC	-	10	\$27.65
D4153275	MLC Press Fitting Manifold Elbow Adapter, R32 x 3/4" MLC	-	10	\$27.65
D4153210	MLC Press Fitting Manifold Elbow Adapter, R32 x 1" MLC	-	10	\$27.65

## Brass Manifold Pressure Test Kit



Brass Manifold Pressure Test Kit contains R32 x 3/4" manifold bushing, R32 solid brass plug, 3/4" brass nipple and pressure gauge assembly (100 psi). Schraeder valve is included.

**Note:** This fitting is not compatible with the TruFLOW Sr.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6122000	Brass Manifold Pressure Test Kit	1	-	\$65.60

# Uponor Radiant Heating and Cooling Systems

Brass Manifold Loop End Cap closes off unused QS20 loop connections. Install the supplied Brass Manifold Loop End Cap Gasket (A2400020) with the Loop End Cap to ensure a proper seal.

**Note:** This fitting is not compatible with the TruFLOW Sr.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A2080020	Brass Manifold Loop End Cap	-	10	\$7.40
A2400020	Brass Manifold Loop End Cap Gasket, spare part	-	10	\$2.85

## Brass Manifold Loop End Cap

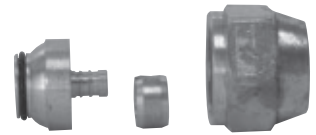


The QS-style Compression Fitting Assembly with o-ring connects 5/16", 3/8", 1/2", and 5/8" Uponor PEX tubing to Uponor brass manifolds and R20 fittings. Sold as a three-piece component. The QS-style compression rings and o-rings are also sold separately.

**Note:** This fitting is not compatible with the TruFLOW Sr.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4020313	5/16" QS-style Compression Fitting Assembly, R20 thread	-	10	\$11.80
A4020375	3/8" QS-style Compression Fitting Assembly, R20 thread	-	10	\$11.80
A4020500	1/2" QS-style Compression Fitting Assembly, R20 thread	-	10	\$9.00
A4020625	5/8" QS-style Compression Fitting Assembly, R20 thread	-	10	\$12.55
A4021116	Replacement O-ring for insert (R20)	-	10	\$0.30

## QS-style Compression Fitting Assembly



The QS-style Compression Fitting Assembly with o-ring connects 5/8" and 3/4" Uponor PEX tubing to the TruFLOW Sr. and 2" Copper Valved Manifolds and other R25 male threaded fittings.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4030625	5/8" QS-style Compression Fitting Assembly, R25 thread	-	10	\$16.40
A4020750	3/4" QS-style Compression Fitting Assembly, R25 thread	-	10	\$15.90
A4021000	Replacement O-ring for insert (R25)	-	10	\$0.40

# Uponor Radiant Heating and Cooling Systems

## QS-style Compression Ring



The QS-style Compression Ring (replacement part) is designed and tested for use with Uponor PEX tubing.

**Note:** Do not substitute similar compression rings.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4160313	5/16" QS-style Compression Ring, spare part	-	10	\$3.25
A4160375	3/8" QS-style Compression Ring, spare part	-	10	\$3.05
A4160500	1/2" QS-style Compression Ring, spare part	-	10	\$2.85
A4160625	5/8" QS-style Compression Ring, spare part	-	10	\$3.05
A4160750	3/4" QS-style Compression Ring, spare part	-	10	\$3.85

## ProPEX Fitting Assembly



ProPEX Fitting Assembly with ProPEX insert connects 3/8" through 3/4" Uponor PEX tubing to the brass manifolds. Sold as a two-piece assembly, it includes a ProPEX insert and R20 swivel nut.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately. This fitting is not compatible with the TruFLOW Sr.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q4020375	3/8" ProPEX Fitting Assembly, R20 thread	-	10	\$10.20
Q4020500	1/2" ProPEX Fitting Assembly, R20 thread	-	10	\$7.45
Q4020625	5/8" ProPEX Fitting Assembly, R20 thread	-	10	\$9.15
Q4020750	3/4" ProPEX Fitting Assembly, R20 thread	-	10	\$10.35
A4021116	Replacement O-ring for insert (R20)	-	10	\$0.30

ProPEX Fitting Assembly with ProPEX insert connects 5/8" through 3/4" Uponor PEX tubing to the TruFLOW Sr. Manifolds and 2" Copper Valved Manifolds and other R25 male threaded fittings. Sold as a two-piece assembly, it includes a ProPEX insert and R25 swivel nut.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately. This fitting is not compatible with TruFLOW Jr. or TruFLOW Classic.

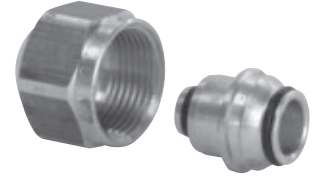
Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q4030625	5/8" ProPEX Fitting Assembly, R25 thread	-	10	\$16.05
Q4030750	3/4" ProPEX Fitting Assembly, R25 thread	-	10	\$15.65

# Uponor Radiant Heating and Cooling Systems

MLC Tubing Compression Fitting Assembly, made of heat-treated brass, connects 1/2" and 5/8" MLC tubing to brass manifolds.

**Note:** This fitting is not compatible with the TruFLOW Sr.

## MLC Tubing Compression Fitting Assembly



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4120500	1/2" MLC Tubing Compression Fitting Assembly, R20 thread	-	20	\$10.10
D4120625	5/8" MLC Tubing Compression Fitting Assembly, R20 thread	-	20	\$11.10

The MLC Tubing Compression Fitting Assembly with o-ring connects 3/4" Uponor MLC tubing to the TruFLOW Sr. and 2" Copper Valved Manifolds and other R25 male threaded fittings.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4120750	3/4" MLC Tubing Compression Fitting Assembly, R25 thread (for TruFlow Sr. Manifolds)	-	20	\$16.50

MLC Press Fitting Assembly connects 1/2" and 5/8" MLC tubing to brass manifolds.

**Note:** The Mini-Press Battery Tool or MLC Press Fitting Manual Tool is required. This fitting is not compatible with the TruFLOW Sr.

## MLC Press Fitting Assembly



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4020500	1/2" MLC Press Fitting Assembly, R20 thread	-	10	\$13.30
D4020625	5/8" MLC Press Fitting Assembly, R20 thread	-	10	\$15.65

MLC Press Fitting Assembly connects 5/8" and 3/4" MLC tubing to the TruFLOW Sr. and 2" Copper Valved Manifolds and other R25 male threaded fittings.

**Note:** The Mini-Press Battery Tool or MLC Press Fitting Manual Tool is required.

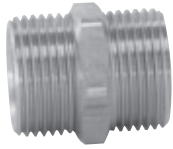
Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4030625	5/8" MLC Press Fitting Assembly, R25 thread	-	10	\$17.05
D4030750	3/4" MLC Press Fitting Assembly, R25 thread	-	10	\$17.25



# Uponor Radiant Heating and Cooling Systems

## Tubing Transition Fittings

### QS-style Coupling Nipple



The QS-style Coupling Nipple (brass) and the appropriate fitting assembly connect  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ " or  $\frac{3}{4}$ " Uponor tubing together.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4322020	QS-style Coupling Nipple, R20 x R20	-	10	\$7.70
A4322525	QS-style Coupling Nipple, R25 x R25 (for $\frac{3}{4}$ " tubing only)	-	10	\$14.95

### QS-style Conversion Nipple



The QS-style Conversion Nipple (brass) and the appropriate fitting connect  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ " or  $\frac{3}{4}$ " Uponor tubing to  $\frac{1}{2}$ ",  $\frac{3}{4}$ " and 1" NPT.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4322050	QS-style Conversion Nipple, R20 x $\frac{1}{2}$ " NPT	-	10	\$8.20
A4322075	QS-style Conversion Nipple, R20 x $\frac{3}{4}$ " NPT	-	10	\$7.85
A4322575	QS-style Conversion Nipple, R25 x $\frac{3}{4}$ " NPT (for $\frac{3}{4}$ " tubing only)	-	10	\$10.75
A4322510	QS-style Conversion Nipple, R25 x 1" NPT, (for $\frac{3}{4}$ " tubing only)	-	10	\$15.05

### QS-style Copper Adapter



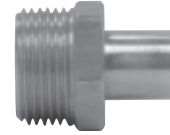
Use R20 QS-style Copper Adapter (R20 or R25) and appropriate QS-style Fitting Assembly to transition Uponor PEX tubing to  $\frac{1}{2}$ " and  $\frac{3}{4}$ " copper pipe.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4332050	QS-style Copper Adapter, R20 x $\frac{1}{2}$ " Copper	-	10	\$6.40
A4332075	QS-style Copper Adapter, R20 x $\frac{3}{4}$ " Copper	-	10	\$6.15
A4332575	QS-style Copper Adapter, R25 x $\frac{3}{4}$ " Copper (for $\frac{3}{4}$ " tubing only)	-	10	\$11.45

# Uponor Radiant Heating and Cooling Systems

Use R20 QS-style Copper Fitting Adapter and appropriate QS-style Fitting Assembly to transition Uponor PEX tubing to 1/2" and 3/4" copper fittings.

## QS-style Copper Fitting Adapter



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4342050	QS-style Copper Fitting Adapter, R20 x 1/2" Copper	-	10	\$7.35
A4342075	QS-style Copper Fitting Adapter, R20 x 3/4" Copper	-	10	\$7.00
A4342575	QS-style Copper Fitting Adapter, R25 X 3/4" Copper (for 3/4" tubing only)	-	10	\$19.55
A4342510	QS-style Copper Fitting Adapter, R25 X 1" Copper (for 3/4" tubing only)	-	10	\$11.35

Use 5/16" Repair Coupling to connect 5/16" Wirsbo hePEX plus together.

**Note:** One-piece Repair Coupling comes as an assembly. No other fittings are necessary.

## Repair Coupling



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4010313	5/16" Repair Coupling	-	10	\$24.95

# Uponor Radiant Heating and Cooling Systems

## Baseboard Fittings

### QS-style Baseboard Elbows and Tees



QS-style Baseboard Elbow (brass) connects 1/2", 5/8" and 3/4" Uponor PEX tubing to 3/4-inch copper baseboard with the appropriate QS-style fitting assembly.

**Note:** QS-style Fitting Assembly is required.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4382075	QS-style Baseboard Elbow, R20 X 3/4" Copper Adapter	-	10	\$12.45
A4372075	QS-style Baseboard Elbow, R20 x 3/4" Copper Fitting Adapter	-	10	\$18.40

QS-style Baseboard Tee (brass) connects 1/2" and 5/8" Uponor PEX tubing to 3/4-inch copper baseboard (includes 1/8-inch threads for air vent).

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A4392075	QS-style Baseboard Tee, R20 x 3/4" Copper Adapter	-	10	\$19.55

### ProPEX Baseboard Elbows and Tees



ProPEX Baseboard Elbow (brass) connects 1/2", 5/8" and 3/4" Uponor PEX tubing products to 3/4-inch copper baseboard.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q4385075	ProPEX Baseboard Elbow, 1/2" PEX x 3/4" Copper Adapter	-	10	\$13.40
Q4386375	ProPEX Baseboard Elbow, 5/8" PEX x 3/4" Copper Adapter	-	10	\$13.40
Q4387575	ProPEX Baseboard Elbow, 3/4" PEX x 3/4" Copper Adapter	-	10	\$14.25
Q4375075	ProPEX Baseboard Elbow, 1/2" PEX x 3/4" Copper Fitting Adapter	-	10	\$14.25
Q4376375	ProPEX Baseboard Elbow, 5/8" PEX x 3/4" Copper Fitting Adapter	-	10	\$14.25
Q4377575	ProPEX Baseboard Elbow, 3/4" PEX x 3/4" Copper Fitting Adapter	-	10	\$14.90

ProPEX Baseboard Tee (brass) connects 1/2" and 5/8" Uponor PEX tubing products to 3/4-inch copper baseboard (includes 1/8-inch threads for air vent). Air vent is not included.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q4395075	ProPEX Baseboard Tee, 1/2" PEX x 3/4" Copper Adapter	-	10	\$14.90
Q4396375	ProPEX Baseboard Tee, 5/8" PEX x 3/4" Copper Adapter	-	10	\$15.65
Q4397575	ProPEX Baseboard Tee, 3/4" PEX x 3/4" Copper Adapter	-	10	\$16.25

# Uponor Radiant Heating and Cooling Systems

## MLC Press Fitting Baseboard Elbows and Tees



MLC Press Fitting Baseboard Elbow connects 1/2", 5/8" and 3/4" MLC tubing to 3/4-inch copper baseboard. Fittings come disassembled for sweating.

**Note:** The Mini-Press Battery Tool or MLC Press Fitting Manual Tool is required.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4385075	MLC Press Fitting Baseboard Elbow, 1/2" MLC Tubing x 3/4" Copper Adapter	-	10	\$21.70
D4386375	MLC Press Fitting Baseboard Elbow, 5/8" MLC Tubing x 3/4" Copper Adapter	-	10	\$21.70
D4387575	MLC Press Fitting Baseboard Elbow, 3/4" MLC Tubing x 3/4" Copper Adapter	-	10	\$21.70
D4375075	MLC Press Fitting Baseboard Elbow, 1/2" MLC Tubing x 3/4" Copper Fitting Adapter	-	10	\$21.05
D4376375	MLC Press Fitting Baseboard Elbow, 5/8" MLC Tubing x 3/4" Copper Fitting Adapter	-	10	\$21.05
D4377575	MLC Press Fitting Baseboard Elbow, 3/4" MLC Tubing x 3/4" Copper Fitting Adapter	-	10	\$21.05

The MLC Press Fitting Baseboard Tee connects 1/2" and 5/8" MLC tubing to 3/4-inch copper baseboard. Tee features 1/8-inch thread for air vent. Fittings come disassembled for soldering.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4395075	MLC Press Fitting Baseboard Tee, 1/2" MLC Tubing x 3/4" Copper Adapter	-	10	\$22.00
D4396375	MLC Press Fitting Baseboard Tee, 5/8" MLC Tubing x 3/4" Copper Adapter	-	10	\$22.00

# Uponor Radiant Heating and Cooling Systems

## MLC Press Fittings

### MLC Press Fitting Brass Coupling



MLC Press Fitting Brass Coupling connects two pieces of MLC tubing.

**Note:** The Mini-Press Battery Tool or MLC Press Fitting Manual Tool is required.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4545050	MLC Press Fitting Brass Coupling, 1/2" MLC Tubing x 1/2" MLC Tubing	-	10	\$6.45
D4546363	MLC Press Fitting Brass Coupling, 5/8" MLC Tubing x 5/8" MLC Tubing	-	10	\$15.20
D4547575	MLC Press Fitting Brass Coupling, 3/4" MLC Tubing x 3/4" MLC Tubing	-	10	\$16.05
D4541010	MLC Press Fitting Brass Coupling, 1" MLC Tubing x 1" MLC Tubing	-	10	\$19.75

### MLC Press Fitting Brass Elbow



MLC Press Fitting Elbow makes 90-degree connections for MLC tubing.

**Note:** The Mini-Press Battery Tool or MLC Press Fitting Manual Tool is required.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4710625	MLC Press Fitting Brass Elbow, 5/8" MLC Tubing x 5/8" MLC Tubing	-	10	\$10.05
D4710750	MLC Press Fitting Brass Elbow, 3/4" MLC Tubing x 3/4" MLC Tubing	-	10	\$13.50
D4711000	MLC Press Fitting Brass Elbow, 1" MLC Tubing x 1" MLC Tubing	-	10	\$18.80

### MLC Press Fitting Brass Tee



MLC Press Fitting Brass Tee makes diverting connections for MLC tubing in supply and return mains.

**Note:** The Mini-Press Battery Tool or MLC Press Fitting Manual Tool is required.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4707575	MLC Press Fitting Brass Tee, 3/4" MLC Tubing x 3/4" MLC Tubing x 3/4" MLC Tubing	-	10	\$26.60
D4701010	MLC Press Fitting Brass Tee, 1" MLC Tubing x 1" MLC Tubing x 1" MLC Tubing	-	10	\$31.55
D4707550	MLC Press Fitting Brass Reducing Tee, 3/4" MLC Tubing x 3/4" MLC Tubing x 1/2" MLC Tubing	-	10	\$26.60
◀ D4707563	MLC Press Fitting Brass Reducing Tee, 3/4" MLC Tubing x 3/4" MLC Tubing x 5/8" MLC Tubing	-	10	\$26.60
D4701150	MLC Press Fitting Brass Reducing Tee, 1" MLC Tubing x 1" MLC Tubing x 1/2" MLC Tubing	-	10	\$31.55
◀ D4701163	MLC Press Fitting Brass Reducing Tee, 1" MLC Tubing x 1" MLC Tubing x 5/8" MLC Tubing	-	10	\$31.55
D4701175	MLC Press Fitting Brass Reducing Tee, 1" MLC Tubing x 1" MLC Tubing x 3/4" MLC Tubing	-	10	\$31.55

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

MLC Press Fitting Brass Male NPT Threaded Adapter connects MLC tubing to male NPT threads.

**Note:** The Mini-Press Battery Tool or MLC Press Fitting Manual Tool is required.

## MLC Press Fitting Brass Male Threaded Adapter



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4525075	MLC Press Fitting Brass Male Threaded Adapter, 1/2" MLC Tubing x 3/4" NPT	-	10	\$16.50
D4526375	MLC Press Fitting Brass Male Threaded Adapter, 5/8" MLC Tubing x 3/4" NPT	-	10	\$17.65
D4527575	MLC Press Fitting Brass Male Threaded Adapter, 3/4" MLC Tubing x 3/4" NPT	-	10	\$19.90
D4527510	MLC Press Fitting Brass Male Threaded Adapter, 3/4" MLC Tubing x 1" NPT	-	10	\$23.25
D4521010	MLC Press Fitting Brass Male Threaded Adapter, 1" MLC Tubing x 1" NPT	-	10	\$27.45

MLC Press Fitting Brass Female NPT Threaded Adapter connects MLC tubing to female NPT threads.

**Note:** The Mini-Press Battery Tool or MLC Press Fitting Manual Tool is required.

## MLC Press Fitting Brass Female Threaded Adapter



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4575075	MLC Press Fitting Brass Female Threaded Adapter, 1/2" MLC Tubing x 3/4" NPT	-	10	\$14.95
D4576375	MLC Press Fitting Brass Female Threaded Adapter, 5/8" MLC Tubing x 3/4" NPT	-	10	\$16.05
D4577575	MLC Press Fitting Brass Female Threaded Adapter, 3/4" MLC Tubing x 3/4" NPT	-	10	\$18.15
D4577510	MLC Press Fitting Brass Female Threaded Adapter, 3/4" MLC Tubing x 1" NPT	-	10	\$24.85
D4571010	MLC Press Fitting Brass Female Threaded Adapter, 1" MLC Tubing x 1" NPT	-	10	\$34.85

# Uponor Radiant Heating and Cooling Systems

## MLC Press Fitting Brass Sweat Adapter

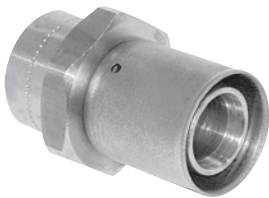


MLC Press Fitting Brass Sweat Adapter transitions MLC tubing to copper pipe. Fittings come disassembled for sweating.

**Note:** The Mini-Press Battery Tool or MLC Press Fitting Manual Tool is required.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4515050	MLC Press Fitting Brass Sweat Adapter, 1/2" MLC Tubing x 1/2" Copper	-	10	\$13.60
D4515075	MLC Press Fitting Brass Sweat Adapter, 1/2" MLC Tubing x 3/4" Copper	-	10	\$9.40
D4516375	MLC Press Fitting Brass Sweat Adapter, 5/8" MLC Tubing x 3/4" Copper	-	10	\$17.55
D4517575	MLC Press Fitting Brass Sweat Adapter, 3/4" MLC Tubing x 3/4" Copper	-	10	\$13.35
D4517510	MLC Press Fitting Brass Sweat Adapter, 3/4" MLC Tubing x 1" Copper	-	10	\$17.10
D4511010	MLC Press Fitting Brass Sweat Adapter, 1" MLC Tubing x 1" Copper	-	10	\$18.65

## MLC Press Fitting Brass Fitting Adapter



MLC Press Fitting Brass Fitting Adapter transitions MLC tubing to copper fittings. Fittings come disassembled for sweating.

**Note:** The Mini-Press Battery Tool or MLC Press Fitting Manual Tool is required.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D4505050	MLC Press Fitting Brass Fitting Adapter, 1/2" MLC Tubing x 1/2" Copper	-	10	\$20.10
D4505075	MLC Press Fitting Brass Fitting Adapter, 1/2" MLC Tubing x 3/4" Copper	-	10	\$10.30
D4506375	MLC Press Fitting Brass Fitting Adapter, 5/8" MLC Tubing x 3/4" Copper	-	10	\$9.60
D4507575	MLC Press Fitting Brass Fitting Adapter, 3/4" MLC Tubing x 3/4" Copper	-	10	\$13.40
D4507510	MLC Press Fitting Brass Fitting Adapter, 3/4" MLC Tubing x 1" Copper	-	10	\$26.80
D4501010	MLC Press Fitting Brass Fitting Adapter, 1" MLC Tubing x 1" Copper	-	10	\$18.85

# Uponor Radiant Heating and Cooling Systems

## Heat-transfer Panels and Plates

The 1/2-inch plywood panels are attached to an aluminum heat transfer sheet. Use with 5/16" Wirsbo hePEX™ plus only.

Cut your labor in half with Uponor's fully assembled Quik Trak® panels, which consist of six panels fastened together with strapping tape. The panels are staggered (2 inches) on both ends to aid alignment. Use with Uponor 5/16" Wirsbo hePEX plus tubing only. One package includes six panels.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5060701	Quik Trak 7" x 48" panels	-	10	\$15.35
A5060761	Quik Trak 7" x 48" x 6 panels (fully assembled set)	1	-	\$102.65

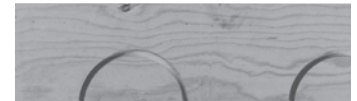
### Quik Trak® Panel



Quik Trak Return Panels are designed with a U-shaped groove to complete tubing turns. Each return panel is shipped with a separate aluminum sheet for installation beneath the panel. Use with 5/16" Wirsbo hePEX plus tubing only.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5060702	Quik Trak 7" x 48" Return Panels	-	10	\$22.25

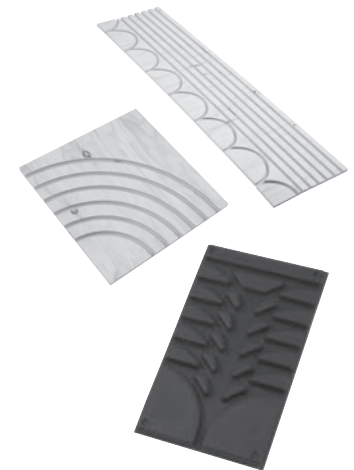
### Quik Trak Return Panel



Quik Trak Combo Panels simplify installations when multiple tubing runs need to be accommodated in a tight space back to the manifold. Each panel is shipped with a separate aluminum sheet for installation beneath the panel. Use with 5/16" Wirsbo hePEX plus tubing only.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> A5060712	Quik Trak 12" x 48" Combo Panel, 6 runs with return	-	5	\$37.95
<b>NEW</b> A5060722	Quik Trak 12" x 12" Combo 90, 6 runs	-	5	\$10.30
<b>NEW</b> A5060732	Quik Trak 7" x 12" Combo Access Panel, 6 runs with 1 access	-	6	\$10.00

### Quik Trak Combo Panels





# Uponor Radiant Heating and Cooling Systems

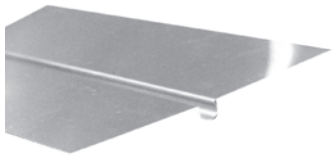
## Joist Trak™ Panel



Use Joist Trak™ extruded aluminum heat transfer panels with  $\frac{3}{8}$ " or  $\frac{1}{2}$ " Uponor PEX in floor joist applications. Each panel is 4 feet long by 4 inches wide, and comes packaged 20 per box. It provides easy installation, increased heat transfer and superior comfort.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5080375	Joist Trak, $\frac{3}{8}$ " Heat Transfer Panel	-	20	\$11.95
A5080500	Joist Trak, $\frac{1}{2}$ " Heat Transfer Panel	-	20	\$11.95

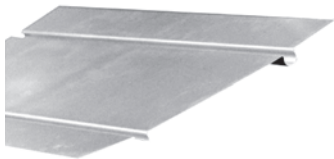
## Single-groove Aluminum Heat Emission Plate



Single-groove Aluminum Heat Emission Plate is available for  $\frac{1}{2}$ " Uponor PEX tubing.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ A5055001	$\frac{1}{2}$ " Single-groove Aluminum Heat Emission Plate	-	50	\$14.35

## Double-groove Aluminum Heat Emission Plate



Double-groove Aluminum Heat Emission Plate is available for  $\frac{3}{8}$ " and  $\frac{1}{2}$ " Uponor PEX tubing. Plates come  $12\frac{1}{2}$  inches wide to accommodate floor trusses.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ A5073752	$\frac{3}{8}$ " Double-groove Aluminum Heat Emission Plate	-	50	\$16.65
◀ A5075002	$\frac{1}{2}$ " Double-groove Aluminum Heat Emission Plate	-	50	\$16.55

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## Tubing Supports

Plastic Bend Support (glass-reinforced nylon) provides rigid 90-degree bend and sleeve for 3/8", 1/2" and 3/4" Uponor PEX tubing.

### Plastic Bend Support



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5150375	3/8" Plastic Bend Support	-	25	\$1.40
<b>NEW</b> A5250500	1/2" Plastic Bend Support	-	25	\$1.40
A5150750	3/4" Plastic Bend Support	-	50	\$3.00

Metal Bend Support (zinc-plated) provides rigid 90-degree bend for 3/8", 1/2", 5/8" and 3/4" Uponor PEX tubing.

### Metal Bend Support



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5110375	3/8" Metal Bend Support	-	50	\$2.95
A5110500	1/2" Metal Bend Support	-	50	\$4.10
A5110625	5/8" Metal Bend Support	-	50	\$4.10
A5110750	3/4" Metal Bend Support	-	25	\$5.30

PVC Bend Support provides rigid 90-degree bend and sleeve for 3/8", 1/2", 5/8", 3/4" and 1" Uponor PEX tubing runs exiting a concrete slab.

### PVC Bend Support

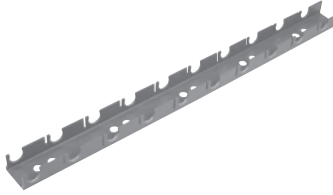


Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5500500	3/4" PVC Elbow for 3/8" and 1/2" PEX Bend Support	-	25	\$2.05
A5500625	1" PVC Elbow for 5/8" PEX Bend Support	-	25	\$3.25
A5500750	1 1/4" PVC Elbow for 3/4" PEX Bend Support	-	20	\$6.05
A5501000	1 1/2" PVC Elbow for 1" PEX Bend Support	-	25	\$6.65

# Uponor Radiant Heating and Cooling Systems

## Fasteners and Fastener Tools

### PEX Rail



Plastic PEX Rail secures Uponor PEX tubing products to metal and wood-support structures.

**Note:** Suitable fastening hardware is required (not included).

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5700500	1/2" PEX Rail, 6.5 ft.	1	16	\$8.90
A5700625	5/8" PEX Rail, 6.5 ft.	1	16	\$11.85
A5700750	3/4" PEX Rail, 6.5 ft.	1	16	\$15.75

### PEX Clip

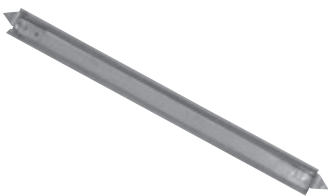


The PEX Clip provides excellent holding power and can attach together laterally for tight installations. The PEX Clip is attached under the wood subfloor for joist heating applications. The clip prevents the tubing from coming in direct contact with the subfloor, eliminating the possibility of creating uncomfortable hot spots on the floor above. Drywall screws are commonly used to secure the clips to the wood subfloor.

**Note:** Select a screw length so it does not penetrate entirely through the wood subfloor once installed.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F7060375	3/8" PEX Clip, 100/box	1	-	\$81.75
F7051258	1/2" PEX Clip, 100/box	1	-	\$81.75

### Joist Heating Hanger



Metal Joist Heating Hanger provides support structure for tubing in joist heating applications. Use fixing wire (A7031000) or nylon zip ties to secure Uponor PEX tubing to Joist Heating Hanger. The hangers expand from 12 to 19 inches.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ A5600001	Joist Heating Hanger, 50/box	1	-	\$102.30

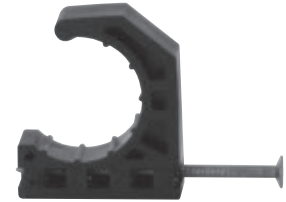
◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

Tube Talon secures 3/8", 1/2", 5/8", 3/4" and 1" Uponor PEX tubing products. Fasteners are included.

## Tube Talon

Part No.	Part Description	Each Qty.	Case Qty.	List Price/Ea.
F7050375	Tube Talon (3/8" PEX), 100/bag	1	10	\$24.85
F7050750	Tube Talon (1/2", 5/8", 3/4" PEX), 100/bag	1	10	\$21.70
F7051000	Tube Talon (1" PEX), 50/bag	1	10	\$26.90



Manually secure galvanized U-shaped Tube Fastener to 3/8", 1/2", and 5/8" Uponor PEX tubing to wood subflooring.

## U-shaped Tube Fastener

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A7040250	U-shaped Tube Fastener, 250/box	1	-	\$37.45



Use Fixing Wire Twister with fixing wire (A7031000).

## Fixing Wire Twister

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6090005	Fixing Wire Twister	1	-	\$5.90



Use Ratchet-style Fixing Wire Twister with fixing wire (A7031000).

## Ratchet-style Fixing Wire Twister

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6091700	Ratchet-style Fixing Wire Twister	1	-	\$67.25



# Uponor Radiant Heating and Cooling Systems

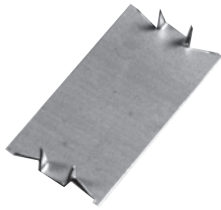
## Fixing Wire



Specially formulated 6-inch galvanized steel alloy tie secures Uponor PEX tubing products to wire mesh or rebar. Use with fixing wire twisters.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A7031000	Fixing Wire, 1,000/bundle	1	5	\$30.50

## Steel Plate Protector



Steel Plate Protector protects tubing from possible damage by drywall, trim screws or nails, etc.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F5700002	Steel Plate Protector, 100/box	1	-	\$29.50

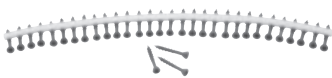
## Quik Trak Installation Tool Kit



The Quik Trak Installation Tool Kit is an auto-feed screw system that features labor-saving speed for Quik Trak installations. The easy-to-use screw gun is lightweight and the extension arm reduces fatigue. The kit includes 120VAC screw gun with vertical extension arm, square head drive screw bits, bit retrieval tool and hard-sided case.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6050000	Quik Trak Installation Tool Kit	1	-	\$1,016.45
E6050005	Quik Trak Bits and Tool (set of 3 square drive bits and 1 tool)	1	-	\$26.60

## Quik Trak Screws



The 1¼" screws are designed specifically for Quik Trak installations using ¾" subfloors.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6051250	Quik Trak Screws (1¼"), 2,500/box	1	-	\$179.35

# Uponor Radiant Heating and Cooling Systems

Quik Trak Sealant is 100% silicone and provides good thermal transfer. Use to adhere  $\frac{5}{16}$ " Wirsbo hePEX plus tubing in the Quik Trak groove.

## Quik Trak Sealant



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6050010	Quik Trak Sealant, 10.3 fluid oz. (300 ml)	-	24	\$14.40

Pneumatic Stapler Kit fires  $\frac{5}{8}$ " through  $1\frac{1}{4}$ " staples with a 1-inch crown. Kit includes stapler, walking stick and conventional nose piece for attaching  $\frac{1}{2}$ " and  $\frac{5}{8}$ " Uponor PEX to subfloors.

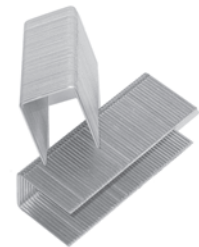
## Pneumatic Stapler Kit



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6021638	Pneumatic Stapler Kit	1	-	\$1,415.30

Metal Staples are available in  $\frac{5}{8}$ " and  $1\frac{1}{4}$ " lengths with a 1-inch crown. Use  $\frac{5}{8}$ " staple to secure aluminum plates to furring strips or subfloors. Use  $1\frac{1}{4}$ " staples in staple-down installations to secure  $\frac{3}{8}$ ",  $\frac{1}{2}$ " and  $\frac{5}{8}$ " Uponor PEX to wood subfloors.

## Metal Staples



**Note:** Uponor does not recommend this use of staples for joist heating applications.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A7010625	$\frac{5}{8}$ " Metal staples, 10,000/box	1	-	\$146.60
A7011250	$1\frac{1}{4}$ " Metal Staples, 10,000/box	1	-	\$173.80

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## Manual Foam Stapler



Use Manual Foam Stapler with Plastic Foam Staples (A7015050, A7015075) to attach  $\frac{3}{8}$ ",  $\frac{1}{2}$ " and  $\frac{5}{8}$ " Uponor PEX to rigid foam insulation.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6025075	Manual Foam Stapler	1	-	\$751.80

## Plastic Foam Staples



Use Plastic Foam Staples with Manual Foam Stapler (E6025075) to secure  $\frac{3}{8}$ ",  $\frac{1}{2}$ " and  $\frac{5}{8}$ " Uponor PEX to rigid foam insulation.

**Note:** Use 1½" Foam Staples (A7015050) for 1-inch foam and 2½" Foam Staples (A7015075) for 1½-inch or thicker foam.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A7015050	1½" Plastic Foam Staples, 300/box	1	-	\$90.00
A7015075	2½" Plastic Foam Staples, 300/box	1	-	\$102.35

# Uponor Radiant Heating and Cooling Systems

## Tube Uncoilers

The Select Uncoiler facilitates the uncoiling of 5/16" to 1" Uponor PEX or up to 5/8" tubing, which simplifies installation and reduces labor. The robust construction features an adjustable reel to allow for either horizontal or vertical position uncoiling. The durable wheels make for easy portability, and the uncoiler is equipped with a tubing-feed eyelet.

**Note:** Due to large coil inside diameters, the Select Uncoiler cannot support 1,000-foot coils of 5/8" and larger MLC tubing.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6062000	Select Uncoiler	1	-	\$1,470.10

### Select Uncoiler



The Compact Select Uncoiler facilitates the uncoiling of 5/16" to 1" Wirsbo AQUAPEX or MLC tubing. The entire 65-pound unit conveniently collapses into its own heavy-duty, compact carrying case, allowing for quick and efficient transport of the uncoiler as well as easy storage when not in use.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6063000	Compact Select Uncoiler	1	-	\$941.25

### Compact Select Uncoiler



The Tube Uncoiler facilitates the uncoiling of 5/16" to 1" Wirsbo AQUAPEX tubing, which simplifies installation and reduces labor. Weighted arms hold tubing in place while uncoiling. Eyelet keeps tubing from tangling. Base is collapsible. No additional hardware necessary for attaching arms. Easy to assemble.

**Note:** Upon assembly, install the guide pin on the swivel arm in order to keep the arm in place.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6061000	Tube Uncoiler	1	-	\$418.35

### Tube Uncoiler





# Uponor Radiant Heating and Cooling Systems

## ProPEX Tools and Accessories

### ProPEX 200 Battery Expander Tool Kit and Accessories



The ProPEX 200 Battery Expander Tool is an electro-hydraulic tool with microprocessor-based intelligence that makes fast, easy connections to 3/8" through 2" Wirsbo AQUAPEX tubing. The tool kit includes a 1 1/2" pistol for making connections to 3/8" through 1 1/2" tubing, a 2" pistol with a 2" H-series expander head for making connections to 2" tubing.

The tool uses both H-series ProPEX Expander Heads as well as the regular ProPEX Expander Heads.

**Note:** ProPEX Expander Heads for 3/8" through 1 1/2" tubing sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6262000	ProPEX 200 Battery Expander Tool Kit (Includes 2" Pistol, 1 1/2" Pistol, 2" H-series Expander Head, 10-foot Hydraulic Hose, Hydraulic Pump, battery charger, two batteries, expander head lubricant, operation manual and roller case)	1	-	\$9,273.80
Q6260200	ProPEX 200 Battery, replacement part	1	-	\$488.50
Q6260700	ProPEX 200 Battery Charger, replacement part	1	-	\$417.30
Q6260002	ProPEX 200 Roller Case, replacement part	1	-	\$670.00

### ProPEX 150 Battery Expander Tool Kit and Accessories



The electro-mechanical ProPEX 150 Battery Expander Tool expands 3/8", 1/2", 5/8", 3/4", 1", 1 1/4" and 1 1/2" Uponor PEX tubing using the ProPEX connection method. This ProPEX Battery Expander Tool uses the H-series ProPEX Expander Heads up to 1 1/2" as well as the standard ProPEX Expander Heads. The standard kit includes the Battery Expander Tool, two batteries, one battery charger, lubricant for expander heads and a heavy-duty carrying case. The deluxe kit includes all the components of the standard kit plus the ProPEX Auto Rotation Adapter and 1/2", 3/4" and 1" regular ProPEX Expander Heads.

**Note:** ProPEX Expander Heads sold separately.



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6261500	ProPEX 150 Battery Expander Tool Kit	1	-	\$1,528.55
Q6261550	ProPEX 150 Deluxe Battery Expander Tool Kit	1	-	\$2,128.30
Q6260100	ProPEX 150 Battery, replacement part	1	-	\$218.75
Q6260600	ProPEX 150 Battery Charger, replacement part	1	-	\$135.85

### ProPEX Auto Rotation Adapter



Designed to use with all standard expander tools and standard expander heads (3/8" to 1"), the ProPEX Auto Rotation Adapter eliminates the need to rotate the tubing when making ProPEX connections.

**Note:** The ProPEX Auto Rotation Adapter is not compatible with the ProPEX 200 Battery Expander Tool or H-series Expander Heads.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6323810	ProPEX Auto Rotation Adapter	1	-	\$304.20

# Uponor Radiant Heating and Cooling Systems

ProPEX Air (pneumatic) Expander Tool expands 3/8", 1/2", 3/4" and 1" Uponor PEX tubing products using the ProPEX connection method. Kit includes 1/2" head, lubricant, carrying case and 4 oz. tube of pneumatic oil.

**Note:** The 3/8", 3/4" and 1" Expander Heads are sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6301000	ProPEX Air Expander Tool Kit	1	-	\$1,134.50
Q6301010	ProPEX Air Expander Oil, 4 oz. bottle, replacement part	1	-	\$3.05

## ProPEX Air Expander Tool



The ProPEX Hand (Manual) Expander Tool Kit includes 1/2", 3/4" and 1" heads, tool lubricant and a sturdy carrying case.

**Note:** The 3/8" Expander Head is sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6295075	ProPEX Hand Expander Tool Kit	1	-	\$597.10

## ProPEX Hand Expander Tool Kit



The ProPEX Hand (Manual) Expander Tool features rugged, tool-hardened heads and an ergonomic handle design for use on 3/8" to 1" ProPEX connections.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6275075	ProPEX Hand Expander Tool (only with case)	1	-	\$256.75

## ProPEX Hand Expander Tool



# Uponor Radiant Heating and Cooling Systems

## ProPEX Expander Head



Standard ProPEX Expander Heads are used on all ProPEX Expander Tools.

**Note:** The ProPEX Expander Heads are not compatible with the APR Blunt Expander Tool.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6310375	3/8" ProPEX Expander Head	1	-	\$131.40
Q6310500	1/2" ProPEX Expander Head	1	-	\$119.50
Q6310625	5/8" ProPEX Expander Head	1	-	\$119.45
Q6310750	3/4" ProPEX Expander Head	1	-	\$119.50
Q6311000	1" ProPEX Expander Head	1	-	\$119.50

## H-series ProPEX Expander Head



The H-series ProPEX Expander Heads are used only with the ProPEX 150 Battery Expander Tool (Q6261500) and ProPEX 200 Battery Expander Tool (Q6262000).

H-series ProPEX Expander Heads require less number of expansions than the regular ProPEX Expander Heads. Heads are identified with an "H" stamp on head.

**Note:** The H-series ProPEX Expander Heads are not compatible with the ProPEX Hand Expander, ProPEX Air Expander, APR Blunt Expander Tools or the Auto Rotation Adapter.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6380750	3/4" H-series ProPEX Expander Head	1	-	\$143.30
Q6381000	1" H-series ProPEX Expander Head	1	-	\$143.30
Q6381250	1 1/4" H-series ProPEX Expander Head	1	-	\$149.30
Q6381500	1 1/2" H-series ProPEX Expander Head	1	-	\$155.25
Q6282000	2" H-series ProPEX Expander Head	1	-	\$503.40

## Graphite Grease



Graphite Grease lubricates ProPEX Expander Tool cones.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q5590028	Graphite Grease for ProPEX Tools, spare part	1	-	\$37.30

# Uponor Radiant Heating and Cooling Systems

## MLC Press Fitting Tools and Accessories

The Mini-Press Battery Tool is an electro-hydraulic press fitting tool that makes fast, easy connections to 1/2" through 1" Uponor MLC tubing. The tool kit with jaws includes one battery, one charger and press jaws for 1/2", 5/8", 3/4" and 1" tubing. The tool kit without jaws includes two batteries and one charger.

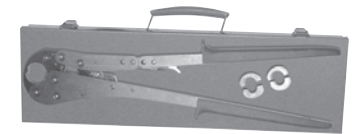
### Mini-Press Battery Tool and Accessories



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D6260000	Mini-Press Battery Tool Kit (No Jaws)	1	-	\$2,227.50
D6261632	Mini-Press Battery Tool Kit (With Jaws)	1	-	\$3,344.90
D6260001	Mini-Press Tool Battery 9.6V, replacement part	1	-	\$219.10
D6260002	Mini-Press Tool Battery Charger, replacement part	1	-	\$272.65
D6260500	1/2" Press Jaw for Mini-Press Battery Tool	1	-	\$219.10
D6260625	5/8" Press Jaw for Mini-Press Battery Tool	1	-	\$219.10
D6260750	3/4" Press Jaw for Mini-Press Battery Tool	1	-	\$227.85
D6261000	1" Press Jaw for Mini-Press Battery Tool	1	-	\$227.85

MLC Press Fitting Manual Tool makes 1/2" and 5/8" MLC Press fittings. Kit includes manual press tool, 1/2" and 5/8" inserts and a carrying case.

### MLC Press Fitting Manual Tool



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D6275063	MLC Press Fitting Manual Tool Kit	1	-	\$783.65
D6270500	1/2" Replacement Insert for MLC Press Fitting Manual Press Tool	1	-	\$192.90
D6270625	5/8" Replacement Insert for MLC Press Fitting Manual Press Tool	1	-	\$192.90

The MLC Tubing T-handle Chamfering Tool bevels the ends of 1/2", 5/8", 3/4" and 1" MLC tubing in preparation for making a fitting connection. The t-handle is removable to use the tool with a drill for multiple chamfering.

### MLC Tubing T-handle Chamfering Tool



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D6100500	1/2" MLC Tubing T-handle Chamfering Tool	1	-	\$46.95
D6100625	5/8" MLC Tubing T-handle Chamfering Tool	1	-	\$46.95
D6100750	3/4" MLC Tubing T-handle Chamfering Tool	1	-	\$49.95
D6101000	1" MLC Tubing T-handle Chamfering Tool	1	-	\$82.45

# Uponor Radiant Heating and Cooling Systems

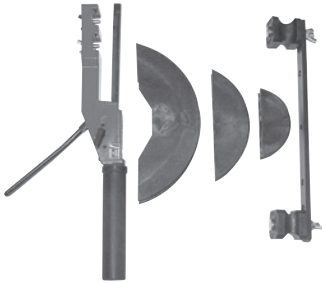
## MLC Tubing Three-way Chamfering Tool



The MLC Tubing Three-way Chamfering Tool bevels the end of 1/2", 5/8" and 3/4" MLC tubing in preparation for making a fitting connection. The side of the tool marks the tubing for the correct insert depth.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D6105063	MLC Tubing Three-way Chamfering Tool, 1/2", 5/8" and 3/4"	1	-	\$51.55

## MLC Tubing Bending Tool



The MLC Tubing Bending Tool allows for more precise, tighter bending radius than manual bends.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
D6165010	MLC Tubing Bending Tool (up to 1" tubing)	1	-	\$636.95

## MLC Tubing Bending Spring



The MLC Tubing Bending Spring allows for tighter bending radius than manual bends.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ E6160750	3/4" MLC Tubing Bending Spring	1	-	\$18.20
◀ E6161000	1" MLC Tubing Bending Spring	1	-	\$42.25

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## Tools

Service Wrench features a lightweight, compact design. Use the 1 $\frac{3}{16}$ " service wrench to tighten QS-style fitting assemblies to the manifolds. Use the 1 $\frac{7}{8}$ " service wrench to tighten manifold union nuts.

### Service Wrench



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6111188	1 $\frac{3}{16}$ " Service Wrench	1	-	\$46.25
E6111875	1 $\frac{7}{8}$ " Service Wrench	1	-	\$61.60
E6110046	TruFLOW Service Wrench, 46 mm	1	-	\$82.05

Metal Tube Cutter cuts up to 1" PEX tubing. Plastic Tube Cutter cuts up to 1" PEX or  $\frac{3}{4}$ " MLC tubing.

### Tube Cutter



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6081125	Tube Cutter (metal) for up to 1" PEX	1	-	\$32.90
E6081140	Tube Cutter Replacement Blade for E6081125, spare part	1	-	\$12.00
E6081128	Tube Cutter (plastic) for up to 1" PEX ( $\frac{3}{4}$ " MLC Tubing)	1	-	\$26.45
E6081143	Tube Cutter Replacement Blade for E6081128, spare part	1	-	\$19.15

Ratchet-style Tube Cutter cuts up to 1" PEX and MLC. Ratchet-style Large Dimension Tube Cutter cuts 1" to 2" PEX and 1" MLC.

### Ratchet-style Tube Cutter



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6081500	Ratchet-style Tube Cutter for up to 1" PEX and MLC Tubing	1	-	\$32.85
E6081544	Tube Cutter Replacement Blade for E6081500, spare part	1	-	\$14.95
E6082000	Ratchet-style Large Dimension Tube Cutter for 1" to 2" PEX and 1" MLC Tubing	1	-	\$235.95

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## APR Fittings

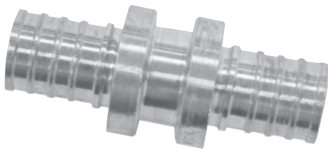
### APR Brass Sleeve



The APR Brass Sleeve slides over the end of the expanded Uponor PEX tubing and APR fitting to form the completed fitting. The APR Ratchet Tool is used to slide the sleeve over the tubing and fitting.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4680500	APR Brass Sleeve, 1/2"	50	250	\$0.80
◀ K4680750	APR Brass Sleeve, 3/4"	50	250	\$1.30
◀ K4681000	APR Brass Sleeve, 1"	10	100	\$2.15
◀ K4681250	APR DZR Brass Sleeve, 1 1/4"	10	100	\$5.65

### APR Brass Coupling



APR Brass Coupling makes PEX-to-PEX connections for Uponor PEX tubing.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4545050	APR Brass Coupling, 1/2" PEX x 1/2" PEX	25	100	\$2.70
◀ K4545075	APR Brass Coupling, 1/2" PEX x 3/4" PEX	25	100	\$8.15
◀ K4547575	APR Brass Coupling, 3/4" PEX x 3/4" PEX	25	100	\$5.55
◀ K4547510	APR Brass Coupling, 3/4" PEX x 1" PEX	10	100	\$9.40
◀ K4541010	APR Brass Coupling, 1" PEX x 1" PEX	10	100	\$10.25

### APR DZR Brass Coupling



APR DZR Brass Coupling makes PEX-to-PEX connections for Uponor PEX tubing. DZR Brass Fittings are safe for direct burial in soil.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Ea. Qty.	Pkg. Qty.	List Price/Ea.
◀ K4541313	APR DZR Brass Coupling, 1 1/4" PEX x 1 1/4" PEX	-	10	\$22.70

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

APR Brass Elbow make 90-degree PEX-to-PEX connections for Uponor PEX tubing.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

## APR Brass Elbow



Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4710500	APR Brass Elbow, 1/2" PEX x 1/2" PEX	25	100	\$4.45
◀ K4710750	APR Brass Elbow, 3/4" PEX x 3/4" PEX	25	100	\$6.70
◀ K4711000	APR Brass Elbow, 1" PEX x 1" PEX	10	100	\$11.00

Branch size is listed last in the part description.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool required. APR Brass Sleeves sold separately.

## APR Brass Tee

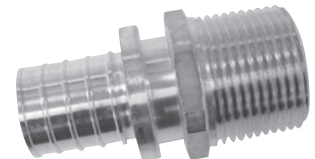


Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4705050	APR Brass Tee, 1/2" PEX x 1/2" PEX x 1/2" PEX	25	100	\$5.00
◀ K4707575	APR Brass Tee, 3/4" PEX x 3/4" PEX x 3/4" PEX	25	100	\$8.45
◀ K4701010	APR Brass Tee, 1" PEX x 1" PEX x 1" PEX	10	100	\$15.20

APR Brass Male Threaded Adapter transitions Uponor PEX tubing to male NPT threads.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

## APR Brass Male Threaded Adapter



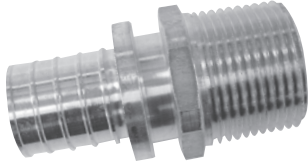
Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4525050	APR Brass Male Threaded Adapter, 1/2" PEX x 1/2" NPT	25	100	\$3.55
◀ K4525075	APR Brass Male Threaded Adapter, 1/2" PEX x 3/4" NPT	25	100	\$5.80
◀ K4527575	APR Brass Male Threaded Adapter, 3/4" PEX x 3/4" NPT	25	100	\$6.65
◀ K4527510	APR Brass Male Threaded Adapter, 3/4" PEX x 1" NPT	10	100	\$8.40
◀ K4521010	APR Brass Male Threaded Adapter, 1" PEX x 1" NPT	10	100	\$9.30

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.



# Uponor Radiant Heating and Cooling Systems

## APR DZR Brass Male Threaded Adapter

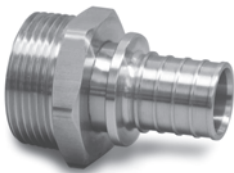


APR DZR Brass Male Threaded Adapter transitions Uponor PEX tubing to male NPT thread. DZR Brass Fittings are safe for direct burial in soil.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K4521313	APR DZR Brass Male Threaded Adapter, 1¼" PEX x 1¼" NPT	-	10	\$20.95

## APR Manifold Adapter

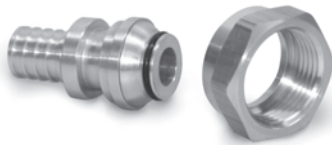


APR Adapter for brass manifold transitions from the R32 manifold union nut to ¾" and 1" Uponor PEX tubing.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately. This fitting is not compatible with the TruFLOW Sr.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K4143275	APR Manifold Straight Adapter, R32 x ¾" APR	-	10	\$25.30
◀ K4143210	APR Manifold Straight Adapter, R32 x 1" APR	-	10	\$25.30

## APR Fitting Assembly

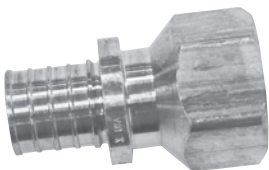


APR Fitting Assembly with APR insert connects ½" and ¾" Uponor PEX tubing to the brass manifolds. Sold as a two-piece assembly, it includes a ProPEX insert and R20 swivel nut.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately. This fitting is not compatible with the TruFLOW Sr.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K4020500	½" APR Fitting Assembly (R20 thread)	-	10	\$10.60
◀ K4020750	¾" APR Fitting Assembly (R20 thread)	-	10	\$13.50

## APR Brass Female Threaded Adapter



APR Brass Female Threaded Adapter transitions Uponor PEX tubing to female NPT threads.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4575050	APR Brass Female Threaded Adapter, ½" PEX x ½" NPT	25	100	\$5.80
◀ K4575075	APR Brass Female Threaded Adapter, ½" PEX x ¾" NPT	25	100	\$6.50
◀ K4577575	APR Brass Female Threaded Adapter, ¾" PEX x ¾" NPT	25	100	\$6.95
◀ K4577510	APR Brass Female Threaded Adapter, ¾" PEX x 1" NPT	10	100	\$15.25
◀ K4571010	APR Brass Female Threaded Adapter, 1" PEX x 1" NPT	10	100	\$13.95

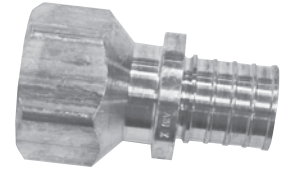
◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

APR DZR Brass Female Threaded Adapter transitions Uponor PEX tubing to female NPT thread. DZR Brass Fittings are safe for direct burial in soil.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool required. APR Brass Sleeves sold separately.

## APR DZR Brass Female Threaded Adapter

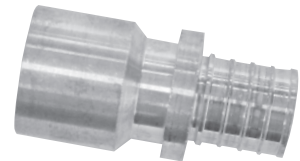


Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K4571313	APR DZR Brass Female Threaded Adapter, 1 1/4" PEX x 1 1/4" NPT	-	10	\$34.30

APR Brass Sweat Adapter transitions Uponor PEX tubing to copper pipe.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

## APR Brass Sweat Adapter



Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4515050	APR Brass Sweat Adapter, 1/2" PEX x 1/2" Copper	25	100	\$2.40
◀ K4515075	APR Brass Sweat Adapter, 1/2" PEX x 3/4" Copper	25	100	\$4.00
◀ K4517550	APR Brass Sweat Adapter, 3/4" PEX x 1/2" Copper	25	100	\$4.00
◀ K4517575	APR Brass Sweat Adapter, 3/4" PEX x 3/4" Copper	25	100	\$5.10
◀ K4517510	APR Brass Sweat Adapter, 3/4" PEX x 1" Copper	10	100	\$7.30
◀ K4511010	APR Brass Sweat Adapter, 1" PEX x 1" Copper	10	100	\$8.90

APR DZR Brass Sweat Adapter transitions Uponor PEX tubing to copper pipe. DZR Brass Fittings are safe for direct burial in soil.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

## APR DZR Brass Sweat Adapter

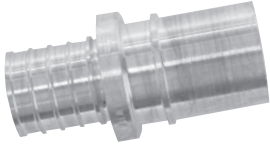


Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K4511313	APR DZR Brass Sweat Adapter, 1 1/4" PEX x 1 1/4" Copper	-	10	\$16.80

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## APR Brass Fitting Adapter



APR Brass Fitting Adapter transitions Uponor PEX tubing to copper fittings.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4505050	APR Brass Fitting Adapter, 1/2" PEX x 1/2" Copper	25	100	\$2.30
◀ K4505075	APR Brass Fitting Adapter, 1/2" PEX x 3/4" Copper	25	100	\$4.60
◀ K4507550	APR Brass Fitting Adapter, 3/4" PEX x 1/2" Copper	25	100	\$4.75
◀ K4507575	APR Brass Fitting Adapter, 3/4" PEX x 3/4" Copper	25	100	\$5.00
◀ K4507510	APR Brass Fitting Adapter, 3/4" PEX x 1" Copper	10	100	\$5.50
◀ K4501010	APR Brass Fitting Adapter, 1" PEX x 1" Copper	10	100	\$8.60

## APR DZR Brass Fitting Adapter

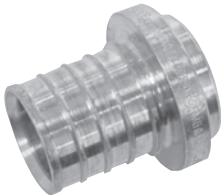


APR DZR Brass Fitting Adapter transitions Uponor PEX tubing to copper fitting connections. DZR Brass Fittings are safe for direct burial in soil.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K4501313	APR DZR Brass Fitting Adapter, 1 1/4" PEX x 1 1/4" Copper	-	10	\$16.35

## APR Brass Plug



APR Brass Plug terminates the end of the Uponor PEX tubing. Install plugs for temporary or permanent usage.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4535050	APR Brass Plug, 1/2"	25	250	\$1.85
◀ K4537575	APR Brass Plug, 3/4"	25	250	\$3.25
◀ K4531010	APR Brass Plug, 1"	10	250	\$8.40

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## APR Tools and Accessories

This Tool Kit contains the Heavy-duty APR Ratchet Tool, 1/2", 3/4" and 1" jaw sets and a durable carrying case. The Heavy-duty APR Ratchet Tool pulls the APR Brass Sleeve over Uponor PEX tubing and APR fitting to complete the connection. This is a required component of the APR fitting system for 1/2" through 1 1/4" Uponor PEX tubing.

**Note:** The 1 1/4" jaw set is sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K6275010	Heavy-duty APR Ratchet Tool Kit	1	-	\$1,028.80
◀ K6270001	Heavy-duty APR Ratchet Tool only, includes case	1	-	\$610.05

### Heavy-duty APR Ratchet Tool Kit



This APR Ratchet Tool Kit contains the APR Ratchet Tool, 1/2" and 3/4" jaw sets and a durable carrying case. The APR Ratchet Tool pulls the APR Brass Sleeve over Uponor PEX tubing and APR fitting to complete the connection. This is a required component of the APR fitting system for 1/2" through 3/4" Uponor PEX tubing.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K6270020	APR Ratchet Tool Kit	1	-	\$769.90
◀ K6270002	APR Ratchet Tool only, includes case	1	-	\$486.85

### APR Ratchet Tool Kit



APR Ratchet Tool Jaw Set is used with the Heavy-duty and regular APR Ratchet Tools. Each set consists of two jaws for the size selected.

**Note:** The 1" and 1 1/4" jaw sets are only compatible with the Heavy-duty APR Ratchet Tool.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K6270500	APR Ratchet Tool Jaw Set (1/2")	1	-	\$147.90
◀ K6270750	APR Ratchet Tool Jaw Set (3/4")	1	-	\$160.20
◀ K6271000	Heavy-duty APR Ratchet Tool Jaw Set (1")	1	-	\$160.20
◀ K6271250	Heavy-duty APR Ratchet Tool Jaw Set (1 1/4")	1	-	\$172.55

### APR Ratchet Tool Jaw Set



◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Radiant Heating and Cooling Systems

## APR Blunt Expander Tool



The APR Blunt Expander Tool Kit contains the APR Expander Heads for ½", ¾" and 1" PEX tubing. The kit also includes the graphite lubricant for the tool and a durable carrying case for all kit components. The APR Blunt Expander Tool expands the Uponor PEX tubing in order to insert the APR fitting into the tubing. This is a required component of the APR fitting system for ½", ¾", 1" and 1¼" Uponor PEX tubing.

**Note:** The APR Blunt Expander Tool and associated expander heads are not interchangeable with the ProPEX Expander Tool and its associated expander heads.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K6285010	APR Blunt Expander Tool Kit	1	-	\$647.05
◀ K6280001	APR Blunt Expander Tool only, includes case	1	-	\$278.25

## APR Blunt Expander Head



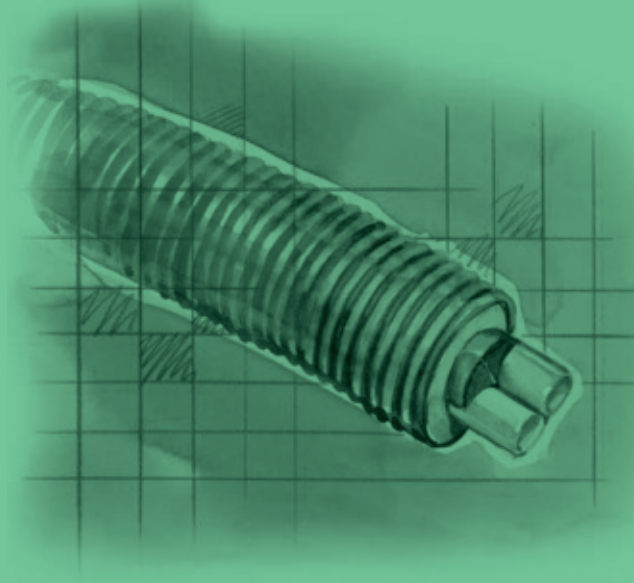
All Blunt Expander Heads listed below are used with the APR Blunt Expander Tool.

**Note:** The APR Blunt Expander Heads are not compatible with the ProPEX Expander Tools.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K6280500	½" APR Blunt Expander Head	1	-	\$129.40
◀ K6280750	¾" APR Blunt Expander Head	1	-	\$129.40
◀ K6281000	1" APR Blunt Expander Head	1	-	\$166.45
◀ K6281250	1¼" APR Blunt Expander Head	1	-	\$178.70

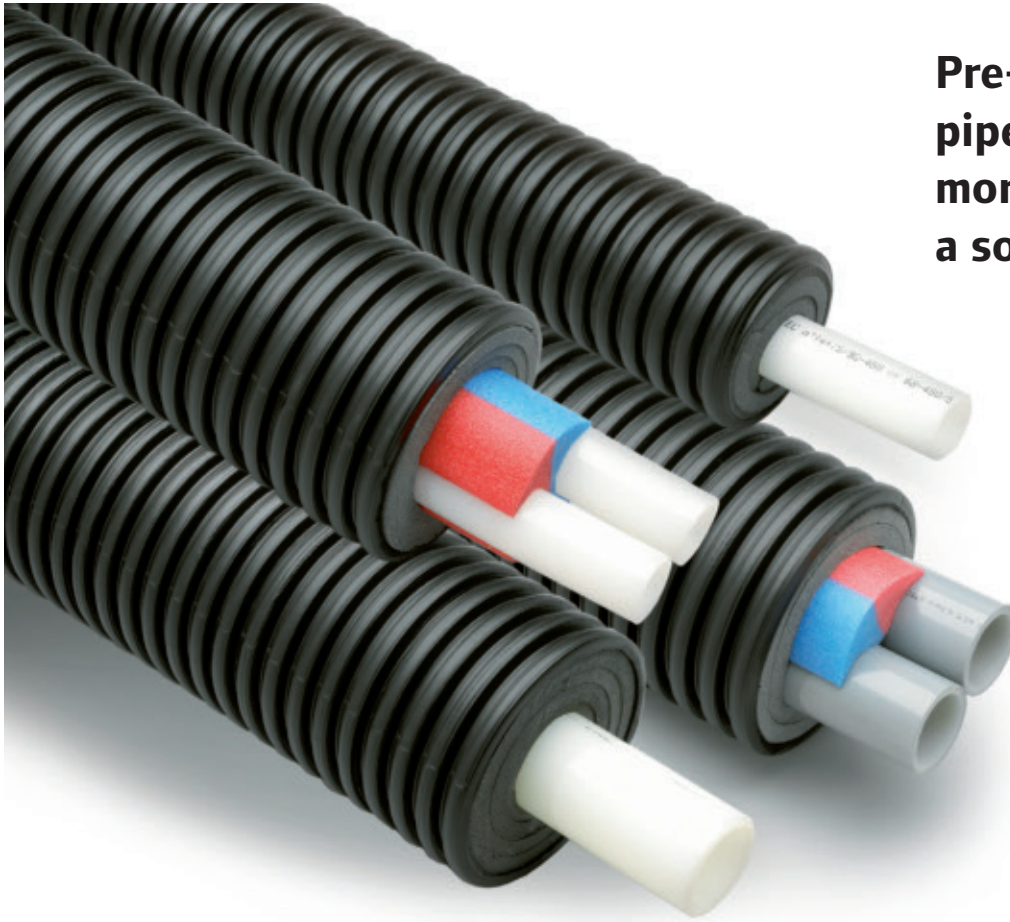
◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Logic for Ecoflex<sup>®</sup> pre-insulated pipe is energy efficiency made easy.



- Hydronic heating, cooling and hot water distribution
- Fast, easy installations
- Energy efficient
- Flexible
- Custom cut, long lengths
- Few tools or accessories
- Maintenance-free

# Pre-insulated Pipe Systems



**Pre-insulated  
pipe systems...  
more than a pipe,  
a solution**

## Pre-insulated pipe systems — The Distribution Solution

**For hydronic heating, cooling and hot water applications**

### A Quality System

Uponor's pre-insulated pipe systems offer flexible, plastic distribution piping for a variety of hydronic heating, cooling and hot water applications. Service pipes are made from either durable Engel-method crosslinked polyethylene (PEX-a) or high-density polyethylene (HDPE) — and protected by multi-layered insulation and a waterproof, corrugated HDPE jacket.

Lightweight and flexible, pre-insulated pipes install easily and quickly in commercial and residential applications — even over obstacles and around corners. A special oxygen-diffusion barrier on the PEX tubing surface keeps oxygen from penetrating the tubing walls and from entering the circulating fluid.

### Superior Performance

A proven product with more than 70 million feet of pipe installed worldwide, Uponor's pre-insulated pipe systems provide consistent, uninterrupted performance. Virtually maintenance-free, callbacks are minimal, and the tried, tested and trusted pre-insulated pipe is recognized for its ability to resist even the most aggressive water and soil conditions. This is especially important because the pipe is buried underground. With coil lengths available up to 656 feet, no underground joints are needed — resulting in seamless piping runs.

### Popular Applications

Uponor's pre-insulated pipe systems are used in commercial and residential applications — predominately in heating, cooling and hot water systems for large-scale complexes, such as schools, colleges, resorts, hotels, hospitals, correctional facilities and housing developments, as well as distribution piping for radiant heating and snow and ice melting systems.

Most recently, outdoor furnace and boiler contractors, as well as homeowners, depend on our products for a trouble-free, energy-saving solution to piping underground when the heat source is not located in the home.

## Ecoflex® Thermal

Ecoflex® Thermal is a pre-insulated piping system designed for fluid transfer in heating, cooling and potable water applications. Ecoflex thermal is manufactured with single and twin PEX service pipes. The PEX service pipes featured with Ecoflex Thermal piping are manufactured by the Engel-method (PEX-a) process. An EVOH oxygen diffusion barrier extruded onto the service pipe dramatically reduces the amount of oxygen molecules that can migrate through the tubing wall. This oxygen diffusion barrier protects ferrous components within the fluid pathway from corrosion.

The PEX service pipe is manufactured in accordance with German DIN 16893 and tested in accordance with DIN 16892. Uponor PEX has hydrostatic ratings in accordance with the temperatures and pressures listed in Table 5 of DIN 16893. The highest hydrostatic rating is 203°F at 87 psi. The PEX service pipe is in compliance with NSF Standards 14 and 61, and is approved for use in potable water applications.

Thermal Single is a pre-insulated pipe with a single PEX service pipe. The outer jacket is constructed of a corrugated HDPE shell with closed-cell PEX insulation between the HDPE shell and PEX service pipe.

**Note:** End Caps are required at all ends of the piping system to ensure insulation integrity.

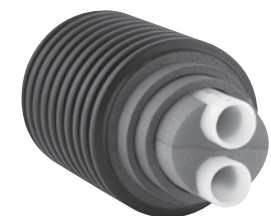
Part No.	Part Description	Coil Dimension	List Price/Foot
500002	25mm Thermal Single with 5.5" Jacket, 656-ft. coil	75" x 51"	\$15.55
500003	32mm Thermal Single with 5.5" Jacket, 492-ft. coil	72" x 51"	\$17.85
500004	40mm Thermal Single with 6.9" Jacket, 328-ft. coil	84" x 48"	\$24.15
500005	50mm Thermal Single with 6.9" Jacket, 328-ft. coil	84" x 48"	\$28.75
500006	63mm Thermal Single with 6.9" Jacket, 328-ft. coil	84" x 48"	\$31.05
500007	75mm Thermal Single with 7.9" Jacket, 328-ft. coil	96" x 57"	\$40.25
500008	90mm Thermal Single with 7.9" Jacket, 328-ft. coil	96" x 57"	\$47.35
500009	110mm Thermal Single with 7.9" Jacket, 328-ft. coil	96" x 63"	\$51.80

Less than full coil quantities are subject to a cut charge equal to the price of three additional feet of the pipe being cut.

### Ecoflex Thermal Single (PEX Service Pipe)



### Ecoflex Thermal Twin (PEX Service Pipes)



Thermal Twin is a pre-insulated pipe with two PEX service pipes. The outer jacket is constructed of a corrugated HDPE shell with closed-cell PEX insulation between the HDPE shell and PEX service pipes.

**Note:** End Caps are required at all ends of the piping system to ensure insulation integrity.

Part No.	Part Description	Coil Dimension	List Price/Foot
500102	25mm Thermal Twin with 6.9" Jacket, 656-ft. coil	96" x 48"	\$21.25
500103	32mm Thermal Twin with 6.9" Jacket, 492-ft. coil	96" x 48"	\$24.70
500104	40mm Thermal Twin with 6.9" Jacket, 328-ft. coil	84" x 48"	\$30.50
500105	50mm Thermal Twin with 7.9" Jacket, 328-ft. coil	96" x 57"	\$41.40
500106	63mm Thermal Twin with 7.9" Jacket, 328-ft. coil	96" x 57"	\$52.90

Less than full coil quantities are subject to a cut charge equal to the price of three additional feet of the pipe being cut.



# Pre-insulated Pipe Systems

## Ecoflex® Potable HDPE



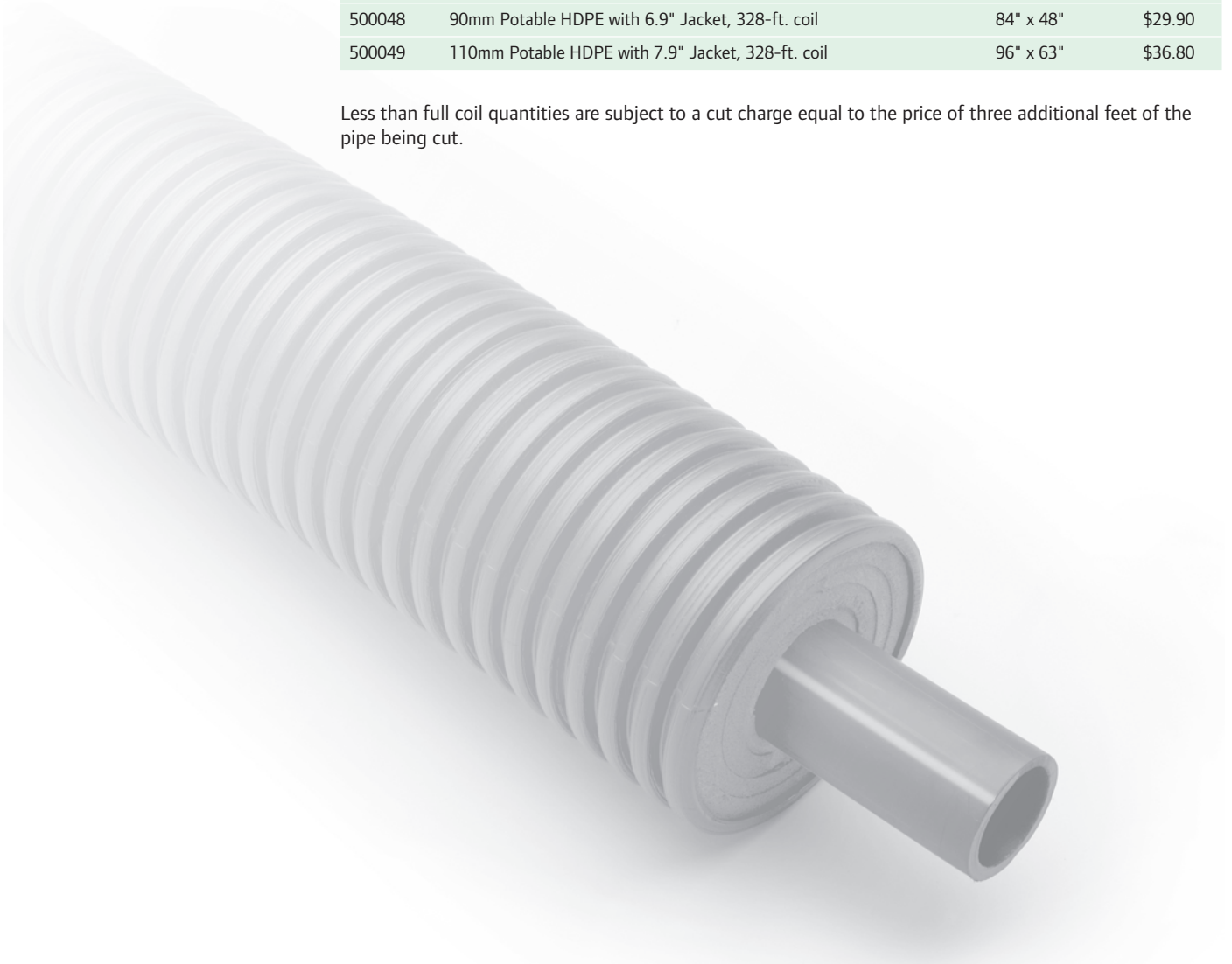
Ecoflex® Potable HDPE features high-density polyethylene (HDPE) service pipe in sizes from 25mm through 110mm. Supra is the economical solution for pre-insulated distribution for chilled water, cooling and low-temperature heating applications. The HDPE service pipe is manufactured in accordance with German DIN 8074. The HDPE service pipe used in Ecoflex Potable HDPE has the following hydrostatic ratings.

- 140°F at 80 psi
- 100°F at 125 psi
- 120°F at 101 psi
- 73°F at 160 psi

**Note:** End Caps are required at all ends of the piping system to ensure insulation integrity.

Part No.	Part Description	Coil Dimension	List Price/Foot
500042	25mm Potable HDPE with 2.7" Jacket, 328-ft. coil	48" x 26"	\$10.55
500043	32mm Potable HDPE with 2.7" Jacket, 328-ft. coil	48" x 26"	\$12.10
500044	40mm Potable HDPE with 5.5" Jacket, 328-ft. coil	60" x 48"	\$16.65
500045	50mm Potable HDPE with 5.5" Jacket, 328-ft. coil	60" x 48"	\$18.40
500046	63mm Potable HDPE with 5.5" Jacket, 328-ft. coil	60" x 48"	\$20.15
500047	75mm Potable HDPE with 6.9" Jacket, 328-ft. coil	84" x 48"	\$21.85
500048	90mm Potable HDPE with 6.9" Jacket, 328-ft. coil	84" x 48"	\$29.90
500049	110mm Potable HDPE with 7.9" Jacket, 328-ft. coil	96" x 63"	\$36.80

Less than full coil quantities are subject to a cut charge equal to the price of three additional feet of the pipe being cut.



# Pre-insulated Pipe Systems

Ecoflex® Male Threaded Adapter Fittings are used with either PEX or HDPE service pipe. The nickel-plated brass Male Threaded Adapters transition the service pipe to male NPT thread.

**Note:** Refer to the Ecoflex Installation Manual for more information concerning the installation of the threaded adapters.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
505850	Male Threaded Adapter, 25mm Pipe x ¾" NPT	1	0.80	\$32.30
505851	Male Threaded Adapter, 32mm Pipe x 1" NPT	1	1.00	\$44.10
505852	Male Threaded Adapter, 40mm Pipe x 1¼" NPT	1	1.50	\$63.35
505853	Male Threaded Adapter, 50mm Pipe x 1½" NPT	1	2.00	\$79.95
505854	Male Threaded Adapter, 63mm Pipe x 2" NPT	1	2.80	\$109.70
505855	Male Threaded Adapter, 75mm Pipe x 2½" NPT	1	4.50	\$197.85
505856	Male Threaded Adapter, 90mm Pipe x 3" NPT	1	6.00	\$284.95
505857	Male Threaded Adapter, 110mm Pipe x 4" NPT	1	10.00	\$339.30

## Male Threaded Adapter Fittings



Ecoflex® Compression Couplings are used when joining two Ecoflex pipes together, typically in a trench. The nickel-plated brass Compression Couplings are metric size compression by metric size compression. Ecoflex Straight Insulation Kits and Rubber End Caps are required (ordered separately) to properly join the Ecoflex pipes at the connection point.

**Note:** Refer to the Ecoflex Installation Guide – Male Adapter Fitting Instructions, for installation procedures.

Part No.	Part Description	Ea. Qty.	Wt (Lbs./Ea.)	List Price/Ea.	A dim	B dim
505654	Brass Compression Coupling, 63mm x 63mm	1	4.00	\$181.75	4.75	3.50
505655	Brass Compression Coupling, 75mm x 75mm	1	7.50	\$331.25	5.25	5.25
505656	Brass Compression Coupling, 90mm x 90mm	1	10.00	\$470.35	6.50	6.00
505657	Brass Compression Coupling, 110mm x 110mm	1	15.80	\$580.45	8.00	6.75

## Compression Couplings



Ecoflex® EPDM Rubber End Caps seal the exposed insulation between the jacket and service pipe when the pipe has been cut to make a connection. The Single End Caps are used for Ecoflex Thermal and Potable HDPE pipes. Each End Cap is supplied with a stainless steel clamp and an EPDM rubber o-ring.

**Note:** End Caps are required at all ends of the piping system to ensure insulation integrity.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
525747	Single End Cap, 25 and 32mm Pipe with 2.7" Jacket	1	0.30	\$63.55
525746	Single End Cap, 25 and 32mm Pipe with 5.5" Jacket	1	0.60	\$77.40
525745	Single End Cap, 40, 50 and 63mm Pipe with 5.5" Jacket	1	0.70	\$75.90
525744	Single End Cap, 40 and 50mm Pipe with 6.9" Jacket	1	0.90	\$87.15
525743	Single End Cap, 63 and 75mm Pipe with 6.9" Jacket	1	0.90	\$92.00
525742	Single End Cap, 90mm Pipe with 6.9" Jacket	1	0.90	\$98.40
525741	Single End Cap, 75, 90 and 110mm Pipe with 7.9" Jacket	1	1.00	\$100.45

## Thermal and Potable HDPE Rubber End Caps



# Pre-insulated Pipe Systems

## Thermal Twin Rubber End Caps



Ecoflex® EPDM Rubber End Caps seal the exposed insulation between the jacket and service pipe when the pipe has been cut to make a connection. The Twin End Caps are used for Ecoflex® Thermal Twin pipes. Each End Cap is supplied with a stainless steel clamp and an EPDM rubber o-ring.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
525740	Twin End Cap, 25, 32 and 40mm Pipe with 6.9" Jacket	1	0.90	\$116.15
525738	Twin End Cap, 50 and 63mm Pipe with 7.9" Jacket	1	1.00	\$142.65

## Ecoflex® Connection Vaults



The Ecoflex® Connection Vault provides a fully watertight, insulated enclosure for multiple straight-through and branch connections. Buried underground, the vault allows the system designer to virtually eliminate all branch connections typical of traditional underground system design. Step-down outlets are compatible with the majority of Ecoflex piping.

**Note:** End Caps are required at all ends of the piping system to ensure insulation integrity.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
525816	Ecoflex Connection Vault, 6 outlet	1	108.00	\$1,466.30
525818	Ecoflex Connection Vault, 8 outlet	1	112.00	\$1,610.05

## Ecoflex® Shrink Sleeves for Connection Vaults



Ecoflex® Shrink Sleeves ensure a watertight seal between the Ecoflex pipe and the exterior of the Connection Vault.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
525911	Vault Shrink Sleeve for 5.5" Jackets	1	1.00	\$65.55
525913	Vault Shrink Sleeve for 6.9" Jackets	1	1.00	\$74.75
525915	Vault Shrink Sleeve for 7.9" Jackets	1	1.00	\$74.75

## Straight Insulation Kit



The Straight Insulation Kit makes an insulated straight connection of single or twin-style Ecoflex products with a jacket size of 5.5", 6.9" and 7.9". The kit features two shells, stainless steel bolts, plastic pins and joint sealing compound. Used with Uponor Rubber End Caps only.

**Note:** End Caps are required at all ends of the piping system to ensure insulation integrity.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
1021992	Straight Insulation Kit, 5.5", 6.9", 7.9"	1	14.00	\$566.80

# Pre-insulated Pipe Systems

The Tee Insulation Kit makes an insulated tee connection of single or twin-style Ecoflex products with a jacket size of 5.5", 6.9" and 7.9". The kit features two shells, stainless steel bolts, plastic pins and joint sealing compound. Used with Uponor Rubber End Caps only.

**Note:** End Caps are required at all ends of the piping system to ensure insulation integrity.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
1021990	Tee Insulation Kit, 5.5", 6.9", 7.9"	1	18.00	\$665.60

## Tee Insulation Kit



The H-Insulation Kit makes an insulated H-connection between single and twin-style Ecoflex products with a jacket size of 5.5", 6.9" and 7.9". The kit features two shells, stainless steel bolts, plastic pins and joint sealing compound. Used with Uponor Rubber End Caps only.

**Note:** End Caps are required at all ends of the piping system to ensure insulation integrity.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
1007355	H-Insulation Kit, 5.5", 6.9", 7.9"	1	42.00	\$1,034.80

## H-Insulation Kit



The Elbow Insulation Kit makes an insulated elbow connection of single or twin-style Ecoflex products with a jacket size of 5.5", 6.9" and 7.9". The kit features two shells, stainless steel bolts, plastic pins and joint sealing compound. Used with Uponor Rubber End Caps only.

**Note:** End Caps are required at all ends of the piping system to ensure insulation integrity.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
1021991	Elbow Insulation Kit, 5.5", 6.9", 7.9"	1	15.00	\$582.40

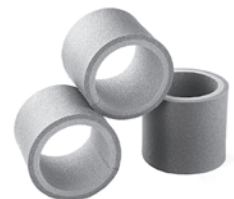
## Elbow Insulation Kit



Reducer Bushings adjust the pipe jacket diameter to fit the respective branch diameter on the Straight, Tee, Elbow or H-Insulation Kits.

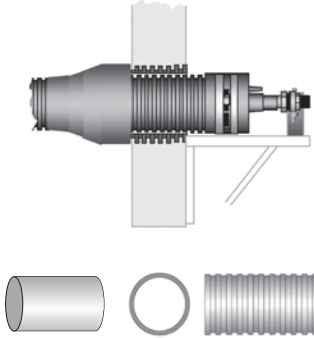
Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
1007357	Reducer Bushing 5.5" to 2.7"	1	0.30	\$48.20

## Reducer Bushings



# Pre-insulated Pipe Systems

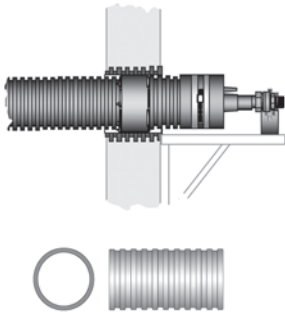
## Ecoflex® Wall Sleeve with Heat Shrink Seal Kit



The Wall Sleeve and Heat Shrink Seal Kits offer a simple installation for new block construction or an existing wall with an irregular hole. Wall Sleeves are not engineered for specific bearing loads, but are offered for installation convenience and compatibility.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
525852	Wall Sleeve with Heat Shrink for 5.5" Jacket	1	3.00	\$214.25
525853	Wall Sleeve with Heat Shrink for 6.9" Jacket	1	3.50	\$218.55
525854	Wall Sleeve with Heat Shrink for 7.9" Jacket	1	4.00	\$288.65

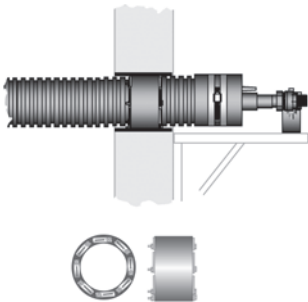
## Ecoflex Wall Sleeve



The Wall Sleeve is used with the Compression Wall Seal for new concrete walls. The Wall Sleeve can be field cut for proper fit within concrete forms. Wall Sleeves are not engineered for specific bearing loads, but are offered for installation convenience and compatibility.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
525862	Wall Sleeve for 5.5" Jacket	1	2.50	\$70.75
525863	Wall Sleeve for 6.9" Jacket	1	3.50	\$95.35
525863	Wall Sleeve for 7.9" Jacket	1	3.50	\$95.35

## Ecoflex Compression Wall Seal



The Compression Wall Seal is used with the Wall Sleeve or may be used alone where a field core drill is preferred. The required core drill size is specified in the table below.

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)	List Price/Ea.
525872	Compression Wall Seal for 5.5" Jacket	1	8.20	\$277.60
525873	Compression Wall Seal for 6.9" Jacket	1	5.00	\$333.15
525874	Compression Wall Seal for 7.9" Jacket	1	5.50	\$328.00

Part No.	Core Drill
525872	8"
525873	10"
525874	10"

## Accessory Application Chart

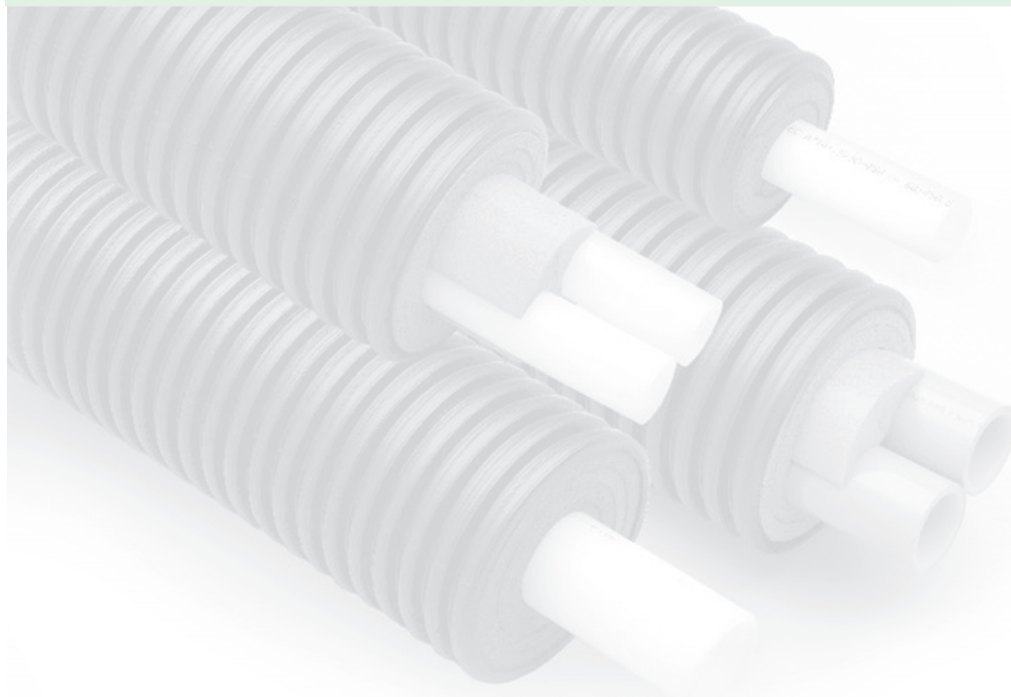
Part Number	Service Pipe	Jacket Size (inch)	Male Adapter Fitting	Rubber End Cap	Tee Insulation Kit	Straight Insulation Kit	Elbow Connection Kit
<b>Thermal Single</b>							
500002	25mm	5.5"	505850	525746	1021990	1021992	1021991
500003	32mm	5.5"	505851	525746	1021990	1021992	1021991
500004	40mm	6.9"	505852	525744	1021990	1021992	1021991
500005	50mm	6.9"	505853	525744	1021990	1021992	1021991
500006	63mm	6.9"	505854	525743	1021990	1021992	1021991
500007	75mm	7.9"	505855	525741	1021990	1021992	1021991
500008	90mm	7.9"	505856	525741	1021990	1021992	1021991
500009	110mm	7.9"	505857	525741	1021990	1021992	1021991
<b>Thermal Twin</b>							
500102	25mm	6.9"	505850	525740	1021990	1021992	1021991
500103	32mm	6.9"	505851	525740	1021990	1021992	1021991
500104	40mm	6.9"	505852	525740	1021990	1021992	1021991
500105	50mm	7.9"	505853	525738	1021990	1021992	1021991
500106	63mm	7.9"	505854	525738	1021990	1021992	1021991
<b>Potable HDPE Single</b>							
500042	25mm	2.7"	505850	525747	1021990, 1007357	1021992, 1007357	1021991, 1007357
500043	32mm	2.7"	505851	525747	1021990, 1007357	1021992, 1007357	1021991, 1007357
500044	40mm	5.5"	505852	525745	1021990	1021992	1021991
500045	50mm	5.5"	505853	525745	1021990	1021992	1021991
500046	63mm	5.5"	505854	525745	1021990	1021992	1021991
500047	75mm	6.9"	505855	525743	1021990	1021992	1021991
500048	90mm	6.9"	505856	525742	1021990	1021992	1021991
500049	110mm	7.9"	505857	525741	1021990	1021992	1021991



# Pre-insulated Pipe Systems

## Weights and Dimensions Chart

Part Number	Service Pipe	Jacket	Coil Length	Coil Diameter	Coil Width	Coil Weight	Weight Per Foot
<b>Thermal Single</b>							
500002	25mm	5.5"	656'	75"	51"	492 lbs.	0.75 lbs.
500003	32mm	5.5"	492'	72"	51"	418 lbs.	0.85 lbs.
500004	40mm	6.9"	328'	84"	48"	459 lbs.	1.40 lbs.
500005	50mm	6.9"	328'	84"	48"	509 lbs.	1.55 lbs.
500006	63mm	6.9"	328'	84"	48"	574 lbs.	1.75 lbs.
500007	75mm	7.9"	328'	96"	57"	837 lbs.	2.55 lbs.
500008	90mm	7.9"	328'	96"	57"	984 lbs.	3.00 lbs.
500009	110mm	7.9"	328'	96"	63"	1,165 lbs.	3.55 lbs.
<b>Thermal Twin</b>							
500102	25mm	6.9"	492'	96"	48"	640 lbs.	1.30 lbs.
500103	32mm	6.9"	492'	96"	48"	689 lbs.	1.40 lbs.
500104	40mm	6.9"	328'	84"	48"	509 lbs.	1.55 lbs.
500105	50mm	7.9"	328'	96"	57"	771 lbs.	2.35 lbs.
500106	63mm	7.9"	328'	96"	57"	1,011 lbs.	3.08 lbs.
<b>Potable HDPE Single</b>							
500042	25mm	2.7"	328'	48"	26"	115 lbs.	0.35 lbs.
500043	32mm	2.7"	328'	48"	26"	148 lbs.	0.45 lbs.
500044	40mm	5.5"	328'	60"	48"	328 lbs.	1.00 lbs.
500045	50mm	5.5"	328'	60"	48"	377 lbs.	1.15 lbs.
500046	63mm	5.5"	328'	60"	48"	443 lbs.	1.35 lbs.
500047	75mm	6.9"	328'	84"	48"	640 lbs.	1.95 lbs.
500048	90mm	6.9"	328'	84"	48"	771 lbs.	2.35 lbs.
500049	110mm	7.9"	328'	96"	63"	1,164 lbs.	3.55 lbs.



# Uponor Logic for Fire Safety means you can install peace of mind with peace of mind.



- State-of-the-art systems
- Reliability
- Faster installations
- Fewer connection
- Meets or exceeds code requirements
- Peace of mind





# Uponor AQUASAFE® *Looped* Fire Safety Systems

## Wirsbo AQUAPEX® Non-barrier Tubing

Wirsbo AQUAPEX tubing is used primarily in hot and cold potable water distribution systems and AQUASAFE® Residential Fire Safety Systems.

Wirsbo AQUAPEX tubing is manufactured and listed to ASTM F876 and F877 and certified to NSF Standards 14 and 61. Wirsbo AQUAPEX tubing is rated and listed by the Hydrostatic Stress Board of PPI at 200°F at 80 psi, 180°F at 100 psi and 73.4°F at 160 psi.

**Note:** Uponor's ½", ¾" and 1" Wirsbo AQUAPEX tubing is listed to UL 1821 and ULC/ORD C199P and carries an additional rating of 120°F at 130 psi.

Part No.	Part Description	Coil/Pallet	List Price/Ea.
F1040750	¾" Wirsbo AQUAPEX, 100-ft. coil	11	\$112.20
F1060750	¾" Wirsbo AQUAPEX, 300-ft. coil	12	\$336.55
F1100750	¾" Wirsbo AQUAPEX, 500-ft. coil	8	\$560.95
F1041000	1" Wirsbo AQUAPEX, 100-ft. coil	12	\$196.30
F1061000	1" Wirsbo AQUAPEX, 300-ft. coil	5	\$589.00
F1101000	1" Wirsbo AQUAPEX, 500-ft. coil	6	\$981.65

### Wirsbo AQUAPEX Tubing — Natural



Part No.	Part Description	List Price/Ea.
F1930750	¾" Wirsbo AQUAPEX tubing, 20-ft. straight length, 300 ft.	\$336.55
F1921000	1" Wirsbo AQUAPEX tubing, 20-ft. straight length, 200 ft.	\$392.70

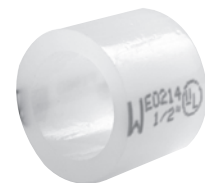
### Wirsbo AQUAPEX Tubing Straight Length — Natural



A ProPEX Ring is required to make a proper ProPEX connection. Rings are listed to UL 1821 and ULC/ORD C199P.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4690752	ProPEX Ring ¾" (blue print)	50	1,000	\$0.30
Q4681000	ProPEX Ring 1" (blue print)	50	500	\$0.50

### ProPEX Ring



# Uponor AQUASAFE® Looped Fire Safety Systems

## Residential Fire Sprinklers

### Flat Plate Concealed Sprinkler



The Concealed Sprinkler threads onto Uponor's stainless steel fire sprinkler adapter fitting. All sprinklers come complete with a plastic protective cap and cup. Sprinklers are NSF- and UL-approved for combined plumbing and sprinkler systems.

**Note:** Flat Concealed Cover Plates sold separately. Do not store sprinkler assemblies where the ambient temperature will exceed 100°F. Sprinkler wrench required to assemble sprinkler adapter.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q74300BR	RFC43 (165°F) Concealed Sprinkler, Bronze	-	50	\$45.00

### Recessed Pendent Sprinkler



The Recessed Pendent Sprinkler threads onto Uponor's stainless steel fire sprinkler adapter fitting. All sprinklers come complete with a protective plastic cap and escutcheon. Sprinklers are NSF- and UL-approved for combined plumbing and sprinkler systems.

**Note:** Do not store sprinkler assemblies where the ambient temperature will exceed 100°F. Sprinkler wrench required to assemble sprinkler adapter.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q74900WH	F1/Res 49 (155°F) Recessed Pendent Sprinkler, White	-	50	\$30.00
Q74900BR	F1/Res 49 (155°F) Recessed Pendent Sprinkler, Bronze	-	50	\$30.00
Q74901WH	F1/Res 49 (175°F) Recessed Pendent Sprinkler, White	-	50	\$30.00
Q74901BR	F1/Res 49 (175°F) Recessed Pendent Sprinkler, Bronze	-	50	\$30.00

### Recessed Horizontal Sidewall Sprinkler



The Recessed Horizontal Sidewall Sprinkler threads onto Uponor's stainless steel fire sprinkler adapter fitting. All sprinklers come complete with a protective plastic cap and escutcheon. Sprinklers are NSF- and UL-approved for combined plumbing and sprinkler systems.

**Note:** Do not store sprinkler assemblies where the ambient temperature will exceed 100°F. Sprinkler wrench required to assemble sprinkler adapter.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q74000WH	F1/Res 40 (155°F) Recessed Horizontal Sidewall Sprinkler, White	-	50	\$30.00
Q74000BR	F1/Res 40 (155°F) Recessed Horizontal Sidewall Sprinkler, Bronze	-	50	\$30.00
Q74001WH	F1/Res 40 (175°F) Recessed Horizontal Sidewall Sprinkler, White	-	50	\$30.00
Q74001BR	F1/Res 40 (175°F) Recessed Horizontal Sidewall Sprinkler, Bronze	-	50	\$30.00
Q74400WH	F1/Res 44 (155°F) Recessed Horizontal Sidewall Sprinkler, White	-	50	\$30.00
Q74400BR	F1/Res 44 (155°F) Recessed Horizontal Sidewall Sprinkler, Bronze	-	50	\$30.00
Q74401WH	F1/Res 44 (175°F) Recessed Horizontal Sidewall Sprinkler, White	-	50	\$30.00
Q74401BR	F1/Res 44 (175°F) Recessed Horizontal Sidewall Sprinkler, Bronze	-	50	\$30.00

# Uponor AQUASAFE® *Looped* Fire Safety Systems

## Sprinkler Cabinets

This three-sprinkler cabinet allows installers to leave spare sprinklers in the home.

**Note:** Ensure the cabinet contains sprinklers identical to those installed in the home.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q75049WH	Cabinet with Three F1/Res 49 (155°F) Pendent Sprinklers, White	1	-	\$160.00
Q75049BR	Cabinet with Three F1/Res 49 (155°F) Pendent Sprinklers, Bronze	1	-	\$160.00
Q75040WH	Cabinet with Three F1/Res 40 (155°F) Horizontal Sidewall Sprinklers, White	1	-	\$160.00
Q75040BR	Cabinet with Three F1/Res 40 (155°F) Horizontal Sidewall Sprinklers, Bronze	1	-	\$160.00
Q75043CP	Cabinet with Three RFC43 (165°F) Concealed Sprinklers, Bronze	1	-	\$200.00
Q75044WH	Cabinet with Three F1/Res 44 (155°F) Horizontal Sidewall Sprinklers, White	1	-	\$160.00
Q75044BR	Cabinet with Three F1/Res 44 (155°F) Horizontal Sidewall Sprinklers, Bronze	1	-	\$160.00
Q7503000	Sprinkler Cabinet without Sprinklers	1	-	\$ 73.00

### Sprinkler Cabinet



## Sprinkler Accessories

The Concealed Flat Cover Plate easily slides onto the RFC43 Concealed Sprinkler Assembly for a finished appearance. The flat cover plate completely hides the sprinkler from view. All cover plates detach from the sprinkler assembly when temperatures reach 135°F.

**Note:** Do not store cover plates in areas where the ambient temperature will exceed 100°F. Cover plate must be used with the RFC43 concealed sprinkler. Custom-painted cover plates are available upon request. Contact Uponor for pricing and shipping turnaround times.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q70643WH	Concealed Flat Cover Plate, White	5	25	\$23.00
Q70643BL	Concealed Flat Cover Plate, Black	5	25	\$40.00
Q70643CH	Concealed Flat Cover Plate, Chrome	5	25	\$40.00
Q70643BB	Concealed Flat Cover Plate, Bright Brass	5	25	\$40.00

### Concealed Flat Cover Plate



This specially designed wrench quickly and easily allows access to service flat plate concealed sprinkler assemblies.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7500300	Sprinkler Wrench for RFC43, Flat Cover Plate	1	-	\$160.00

### Concealed Sprinkler Wrench for RFC43 (Flat Cover Plate)



# Uponor AQUASAFE® *Looped* Fire Safety Systems

## Concealed Protective Cap



The Concealed Protective Cap (plastic) protects sprinklers from dust, paint and other hazards that might damage the sprinkler during the finishing work. Remove the cap after all finishing work is complete.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7060050	Concealed Protective Cap, spare part	-	25	\$2.50

## Recessed Escutcheon



Recessed Escutcheon provides a finished appearance. It comes complete with a tension collar, and available in white or bronze to match sprinklers.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q71801WH	3/4" Recessed Escutcheon, White, spare part	-	25	\$7.50
Q71801BR	3/4" Recessed Escutcheon, Bronze, spare part	-	25	\$12.00

## Recessed Sprinkler Wrench



This specially designed Recessed Sprinkler Wrench quickly and easily allows access to service Recessed Sprinkler Assemblies.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7500200	Recessed Sprinkler Wrench	1	-	\$160.00

## Recessed Protective Cap



The Recessed Protective Cap (plastic) protects the sprinklers from dust, paint and other hazards that might damage the sprinkler during the finishing work. Remove the cap after all finishing work is complete.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7160050	Recessed Protective Cap, spare part	-	25	\$2.50

# Uponor AQUASAFE® Looped Fire Safety Systems

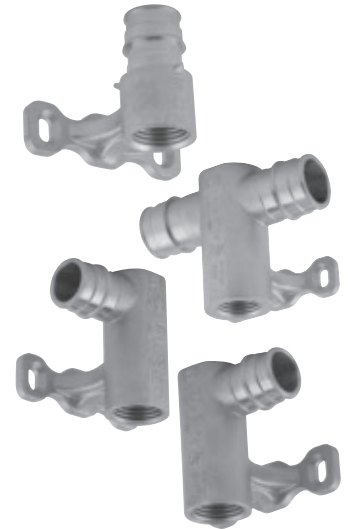
## Sprinkler Adapters and Fittings

The ProPEX Fire Sprinkler Adapter provides connection of residential fire sprinkler to Wirsbo AQUAPEX tubing. Made of stainless steel with ProPEX outlets, ProPEX Fire Sprinkler Adapter is NSF- and UL-approved for combined plumbing and fire sprinkler systems.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately. Sprinkler wrench required.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> Q7517550	ProPEX Fire Sprinkler Adapter, 3/4" PEX x 1/2" FNPT	-	5	\$ 54.00
<b>NEW</b> Q7511050	ProPEX Fire Sprinkler Adapter, 1" PEX x 1/2" FNPT	-	5	\$ 55.00
<b>NEW</b> Q7527575	ProPEX Fire Sprinkler Adapter Tee, 3/4" PEX x 3/4" PEX x 1/2" FNPT	-	5	\$ 58.00
<b>NEW</b> Q7521010	ProPEX Fire Sprinkler Adapter Tee, 1" PEX x 1" PEX x 1/2" FNPT	-	5	\$ 63.00
<b>NEW</b> Q7537550	ProPEX Fire Sprinkler Adapter Right Elbow, 3/4" PEX x 1/2" FNPT	-	5	\$ 55.00
<b>NEW</b> Q7531050	ProPEX Fire Sprinkler Adapter Right Elbow, 1" PEX x 1/2" FNPT	-	5	\$ 59.00
<b>NEW</b> Q7547550	ProPEX Fire Sprinkler Adapter Left Elbow, 3/4" PEX x 1/2" FNPT	-	5	\$ 55.00
<b>NEW</b> Q7541050	ProPEX Fire Sprinkler Adapter Left Elbow, 1" PEX x 1/2" FNPT	-	5	\$ 59.00

### ProPEX Stainless Fire Sprinkler Adapters



ProPEX Brass Coupling makes PEX-to-PEX connections.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4547575	ProPEX Brass Coupling, 3/4" PEX x 3/4" PEX	25	100	\$5.65
Q4547510	ProPEX Brass Coupling, 3/4" PEX x 1" PEX	10	100	\$9.60
Q4541010	ProPEX Brass Coupling, 1" PEX x 1" PEX	10	100	\$10.00

### ProPEX Brass Coupling



ProPEX Brass Elbow makes tight 90-degree connections for Wirsbo AQUAPEX tubing in supply and return mains.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4710750	ProPEX Brass Elbow, 3/4" PEX x 3/4" PEX	25	100	\$6.75
Q4711000	ProPEX Brass Elbow, 1" PEX x 1" PEX	10	100	\$11.15

### ProPEX Brass Elbow



# Uponor AQUASAFE® *Looped* Fire Safety Systems

## ProPEX Brass Tee



ProPEX Brass Tee makes diverting connections for Wirsbo AQUAPEX tubing in supply and return mains. Branch size is listed last in the part description.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4707575	ProPEX Brass Tee, 3/4" PEX x 3/4" PEX x 3/4" PEX	25	100	\$8.95
Q4701010	ProPEX Brass Tee, 1" PEX x 1" PEX x 1" PEX	10	100	\$16.70

## ProPEX Brass Reducing Tee

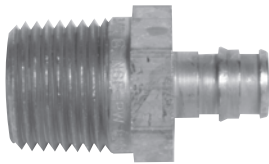


Branch size is listed last in the part description.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4707710	ProPEX Brass Reducing Tee, 3/4" PEX x 3/4" PEX x 1" PEX	10	100	\$14.30
Q4701775	ProPEX Brass Reducing Tee, 1" PEX x 3/4" PEX x 3/4" PEX	10	100	\$16.70
Q4701751	ProPEX Brass Reducing Tee, 1" PEX x 3/4" PEX x 1" PEX	10	100	\$16.70
Q4701150	ProPEX Brass Reducing Tee, 1" PEX x 1" PEX x 1/2" PEX	10	100	\$16.70
Q4701175	ProPEX Brass Reducing Tee, 1" PEX x 1" PEX x 3/4" PEX	10	100	\$16.70

## ProPEX Brass Male Threaded Adapter



ProPEX Brass Male Threaded Adapter connects Wirsbo AQUAPEX tubing to male NPT threads and intended as transition fittings from metal to PEX.

**Note:** ProPEX tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4527575	ProPEX Brass Male Threaded Adapter, 3/4" PEX x 3/4" NPT	25	100	\$5.35
Q4521010	ProPEX Brass Male Threaded Adapter, 1" PEX x 1" NPT	10	100	\$10.70

# Uponor AQUASAFE® *Looped* Fire Safety Systems

ProPEX Brass Female Threaded Adapter connects Wirsbo AQUAPEX tubing to female NPT threads and intended as transition fittings from metal to PEX.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

## ProPEX Brass Female Threaded Adapter

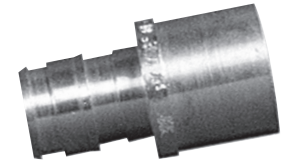


Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4577575	ProPEX Brass Female Threaded Adapter, 3/4" PEX x 3/4" NPT	25	100	\$6.90
Q4571075	ProPEX Brass Female Threaded Adapter, 1" PEX x 3/4" NPT	10	100	\$11.75

ProPEX Brass Sweat Adapter transitions Wirsbo AQUAPEX tubing to copper pipe.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

## ProPEX Brass Sweat Adapter



Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4517575	ProPEX Brass Sweat Adapter, 3/4" PEX x 3/4" Copper	25	100	\$4.90
Q4511010	ProPEX Brass Sweat Adapter, 1" PEX x 1" Copper	10	100	\$7.60

## Tubing Supports

Plastic Bend Support (glass-reinforced nylon) provides rigid 90-degree bend and sleeve for 3/4" Wirsbo AQUAPEX tubing.

## Plastic Bend Support



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5150750	3/4" Plastic Bend Support	-	50	\$3.00

Metal Bend Support (zinc-plated) provides rigid 90-degree bend for 3/4" Wirsbo AQUAPEX tubing.

## Metal Bend Support



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5110750	3/4" Metal Bend Support	-	25	\$5.30



# Uponor AQUASAFE® *Looped* Fire Safety Systems

## PVC Bend Support

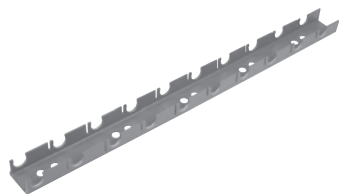


PVC Bend Support provides rigid 90-degree bend and sleeve for 3/4" and 1" Wirsbo AQUAPEX tubing runs exiting a concrete slab.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5500750	1 1/4" PVC Elbow for 3/4" PEX Bend Support	-	20	\$6.05
A5501000	1 1/2" PVC Elbow for 1" PEX Bend Support	-	25	\$6.65

## Tube Fasteners and Protectors

### PEX Rail

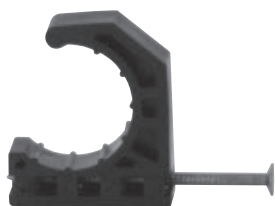


Plastic PEX Rail secures Wirsbo AQUAPEX tubing products to metal and wood-support structures.

**Note:** Suitable fastening hardware is required (not included).

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5700750	3/4" PEX Rail, 6.5 ft.	1	16	\$15.75

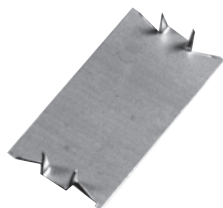
### Tube Talon



Tube Talon secures 3/8", 1/2", 5/8", 3/4" and 1" Wirsbo AQUAPEX tubing products. Fasteners are included.

Part No.	Part Description	Each Qty.	Case Qty.	List Price/Ea.
F7050750	Tube Talon (1/2", 5/8", 3/4" PEX), 100/bag	1	10	\$21.70
F7051000	Tube Talon (1" PEX), 50/bag	1	10	\$26.90

### Steel Plate Protector



Steel Plate Protector protects tubing from possible damage by drywall, trim screws or nails, etc.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F5700002	Steel Plate Protector, 100/box	1	-	\$29.50

# Uponor AQUASAFE® Network Fire Safety Systems

## Wirsbo AQUAPEX® Non-barrier Tubing

Wirsbo AQUAPEX® tubing is used primarily in hot and cold potable water distribution systems and AQUASAFE® Residential Fire Safety Systems.

Wirsbo AQUAPEX tubing is manufactured and listed to ASTM F876 and F877 and certified to NSF Standards 14 and 61. Wirsbo AQUAPEX tubing is rated and listed by the Hydrostatic Stress Board of PPI at 200°F at 80 psi, 180°F at 100 psi and 73.4°F at 160 psi.

**Note:** Uponor's ½", ¾" and 1" Wirsbo AQUAPEX tubing is listed to UL 1821 and ULC/ORD C199P and carries an additional rating of 120°F at 130 psi.

Part No.	Part Description	Coil/Pallet	List Price/Ea.
F1040500	½" Wirsbo AQUAPEX, 100-ft. coil	22	\$65.45
F1060500	½" Wirsbo AQUAPEX, 300-ft. coil	18	\$196.30
F1120500	½" Wirsbo AQUAPEX, 1,000-ft. coil	8	\$654.45

### Wirsbo AQUAPEX Tubing — Natural



A ProPEX Ring is required to make a proper ProPEX connection. Rings are listed to UL 1821 and ULC/ORD C199P.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
<b>NEW</b> Q4690512	ProPEX Ring with stop ½" (blue print)	50	2,000	\$0.17

### ProPEX Ring



## Sprinkler Assemblies

The Concealed Sprinkler Assembly comes with the sprinkler threaded onto Uponor's stainless steel multi-port fitting with ProPEX outlets. All assemblies come complete with a plastic protective cap and cup. Sprinkler assemblies are NSF- and UL-approved for combined plumbing and sprinkler systems.

**Note:** Concealed Cover Plates sold separately. Do not store sprinkler assemblies where the ambient temperature will exceed 100°F.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q74355CP	RFC43 CCP (165°F) Flat Plate Concealed Sprinkler Assembly	5	25	\$82.75
Q74955CP	F1/Res 49 CCP (155°F) Domed Concealed Sprinkler Assembly	5	25	\$85.00

### Concealed Sprinkler Assembly



# Uponor AQUASAFE® Network Fire Safety Systems

## Recessed Pendent Sprinkler Assembly



The Recessed Pendent Sprinkler Assembly comes with the sprinkler threaded onto the stainless steel multi-port fitting with ProPEX outlets. All assemblies come complete with a protective plastic cap and escutcheon. Sprinkler assemblies are NSF- and UL-approved for combined plumbing and sprinkler systems.

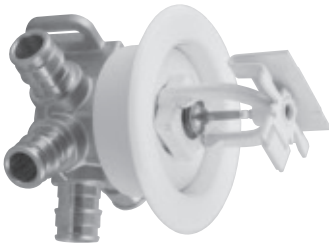
**Note:** Do not store sprinkler assemblies where the ambient temperature will exceed 100°F.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q74955WH	F1/Res 49 (155°F) Recessed Pendent Sprinkler Assembly, White	5	25	\$75.00
Q74955BR	F1/Res 49 (155°F) Recessed Pendent Sprinkler Assembly, Bronze	5	25	\$85.00
Q74975WH	F1/Res 49 (175°F) Recessed Pendent Sprinkler Assembly, White*	5	25	\$80.00
Q74975BR	F1/Res 49 (175°F) Recessed Pendent Sprinkler Assembly, Bronze*	5	25	\$85.00

\*Use F1/Res 49 (175°F) sprinklers where the maximum ambient ceiling temperatures are between 101°F and 150°F. Standard Sprinkler Finishes: White polyester-coated and bronze

**Special Finishes:** Chrome-plated, satin chrome, bright brass, black-plated, black-painted and off-white (Contact Uponor for extended delivery time and additional costs associated with special finishes.)

## Recessed Horizontal Sidewall Sprinkler Assembly



The Recessed Horizontal Sidewall Sprinkler Assembly comes with the sprinkler threaded onto the stainless steel multi-port fitting with ProPEX outlets. All assemblies come complete with a protective plastic cap and escutcheon. Sprinkler assemblies are NSF- and UL-approved for combined plumbing and sprinkler systems.

**Note:** Do not store sprinkler assemblies where the ambient temperature will exceed 100°F.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q74455WH	F1/Res 44 (155°F) Recessed Horizontal Sidewall Sprinkler Assembly, White	5	25	\$75.00
Q74455BR	F1/Res 44 (155°F) Recessed Horizontal Sidewall Sprinkler Assembly, Bronze	5	25	\$85.00
Q74475WH	F1/Res 44 (175°F) Recessed Horizontal Sidewall Sprinkler Assembly, White*	5	25	\$80.00
Q74475BR	F1/Res 44 (175°F) Recessed Horizontal Sidewall Sprinkler Assembly, Bronze*	5	25	\$85.00

\*Use F1/Res 44 (175°F) sprinklers where the maximum ambient ceiling temperatures are between 101°F and 150°F.

**Standard Sprinkler Finishes:** White polyester-coated

**Special Finishes:** Bronze, chrome-plated, satin chrome, bright brass, black-plated, black-painted and off-white (Contact Uponor for extended delivery time and additional costs associated with special finishes.)

# Uponor AQUASAFE® Network Fire Safety Systems

## Spare Sprinklers

The Concealed Sprinkler threads onto Uponor's stainless steel fire sprinkler adapter fitting. All sprinklers come complete with a plastic protective cap and cup. Sprinklers are NSF- and UL-approved for combined plumbing and sprinkler systems.

**Note:** Flat Concealed Cover Plates sold separately. Do not store sprinkler assemblies where the ambient temperature will exceed 100°F. Sprinkler wrench required to assemble sprinkler adapter.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q74300BR	RFC43 (165°F) Concealed Sprinkler, Bronze	-	50	\$45.00

**Flat Plate Concealed Sprinkler**



The Recessed Pendent Sprinkler threads onto Uponor's stainless steel fire sprinkler adapter fitting. All sprinklers come complete with a protective plastic cap and escutcheon. Sprinklers are NSF- and UL-approved for combined plumbing and sprinkler systems.

**Note:** Do not store sprinkler assemblies where the ambient temperature will exceed 100°F. Sprinkler wrench required to assemble sprinkler adapter.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q74900WH	F1/Res 49 (155°F) Pendent Sprinkler, White	-	50	\$30.00
Q74900BR	F1/Res 49 (155°F) Pendent Sprinkler, Bronze	-	50	\$30.00
Q74901WH	F1/Res 49 (175°F) Pendent Sprinkler, White	-	50	\$30.00
Q74901BR	F1/Res 49 (175°F) Pendent Sprinkler, Bronze	-	50	\$30.00

**Recessed Pendent Sprinkler**



The Recessed Horizontal Sidewall Sprinkler threads onto Uponor's stainless steel fire sprinkler adapter fitting. All sprinklers come complete with a protective plastic cap and escutcheon. Sprinklers are NSF- and UL-approved for combined plumbing and sprinkler systems.

**Note:** Do not store sprinkler assemblies where the ambient temperature will exceed 100°F. Sprinkler wrench required to assemble sprinkler adapter.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q74000WH	F1/Res 40 (155°F) Horizontal Sidewall Sprinkler, White	-	50	\$30.00
Q74000BR	F1/Res 40 (155°F) Horizontal Sidewall Sprinkler, Bronze	-	50	\$30.00
Q74001WH	F1/Res 40 (175°F) Horizontal Sidewall Sprinkler, White	-	50	\$30.00
Q74001BR	F1/Res 40 (175°F) Horizontal Sidewall Sprinkler, Bronze	-	50	\$30.00
Q74400WH	F1/Res 44 (155°F) Horizontal Sidewall Sprinkler, White	-	50	\$30.00
Q74400BR	F1/Res 44 (155°F) Horizontal Sidewall Sprinkler, Bronze	-	50	\$30.00
Q74401WH	F1/Res 44 (175°F) Horizontal Sidewall Sprinkler, White	-	50	\$30.00
Q74401BR	F1/Res 44 (175°F) Horizontal Sidewall Sprinkler, Bronze	-	50	\$30.00

**Recessed Horizontal Sidewall Sprinkler**



# Uponor AQUASAFE® Network Fire Safety Systems

## Sprinkler Cabinets

### Sprinkler Cabinet



This three-sprinkler cabinet allows installers to leave spare sprinklers in the home.

**Note:** Ensure the cabinet contains sprinklers identical to those installed in the home.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q75049WH	Cabinet with Three F1/Res 49 (155°F) Pendent Sprinklers, White	1	-	\$160.00
Q75049BR	Cabinet with Three F1/Res 49 (155°F) Pendent Sprinklers, Bronze	1	-	\$160.00
Q75040WH	Cabinet with Three F1/Res 40 (155°F) Horiz. Sidewall Sprinklers, White	1	-	\$160.00
Q75040BR	Cabinet with Three F1/Res 40 (155°F) Horiz. Sidewall Sprinklers, Bronze	1	-	\$160.00
Q75043CP	Cabinet with Three RFC43 (165°F) Concealed Sprinklers, Bronze	1	-	\$200.00
Q75044WH	Cabinet with Three F1/Res 44 (155°F) Horiz. Sidewall Sprinklers, White	1	-	\$160.00
Q75044BR	Cabinet with Three F1/Res 44 (155°F) Horiz. Sidewall Sprinklers, Bronze	1	-	\$160.00
Q7503000	Sprinkler Cabinet without Sprinklers	1	-	\$73.00

## Sprinkler Accessories

### Concealed Flat Cover Plate



The Concealed Flat Cover Plate easily slides onto the RFC43 Concealed Sprinkler Assembly for a finished appearance. The flat cover plate completely hides the sprinkler from view. All cover plates detach from the sprinkler assembly when temperatures reach 135°F.

**Note:** Do not store cover plates in areas where the ambient temperature will exceed 100°F. Cover plate must be used with the concealed assembly. Custom-painted cover plates are available upon request. Contact Uponor for pricing and shipping turnaround times.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q70643WH	Concealed Flat Cover Plate, White	5	25	\$23.00
Q70643BL	Concealed Flat Cover Plate, Black	5	25	\$40.00
Q70643CH	Concealed Flat Cover Plate, Chrome	5	25	\$40.00
Q70643BB	Concealed Flat Cover Plate, Bright Brass	5	25	\$40.00

# Uponor AQUASAFE® Network Fire Safety Systems

The Concealed Domed Cover Plate easily slides onto the F1/Res49 Concealed Sprinkler Assembly for a finished appearance. The cover plate completely hides the sprinkler from view. All cover plates detach from the sprinkler assembly when temperatures reach 135°F.

**Note:** Do not store cover plates in areas where the ambient temperature will exceed 100°F. Cover plate must be used with the concealed assembly. Custom-painted cover plates are available upon request. Contact Uponor for pricing and shipping turnaround times.

## Concealed Domed Cover Plate



Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q70601WH	Concealed Domed Cover Plate, White	5	25	\$21.50
Q70601BL	Concealed Domed Cover Plate, Black	5	25	\$40.00
Q70601BR	Concealed Domed Cover Plate, Bronze	5	25	\$40.00
Q70601CH	Concealed Domed Cover Plate, Chrome	5	25	\$40.00
Q70601BB	Concealed Domed Cover Plate, Bright Brass	5	25	\$40.00

This specially designed Concealed Sprinkler Wrench quickly and easily allows access to service Flat Plate Concealed Sprinkler Assemblies.

## Concealed Sprinkler Wrench for RFC43 (Flat Cover Plate)



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7500300	Concealed Sprinkler Wrench for RFC43 (Flat Cover Plate)	1	-	\$160.00

This specially designed Concealed Sprinkler Wrench quickly and easily allows access to service Domed Concealed Sprinkler Assemblies.

## Concealed Sprinkler Wrench for CCP (Domed Cover Plate)



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7500100	Concealed Sprinkler Wrench for CCP (Domed Cover Plate)	1	-	\$160.00

The Concealed Protective Cap (plastic) protects sprinklers from dust, paint and other hazards that might damage the sprinkler during the finishing work. Remove the cap after all finishing work is complete.

## Concealed Protective Cap



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7060050	Concealed Protective Cap, spare part	-	25	\$2.50

# Uponor AQUASAFE® Network Fire Safety Systems

## Recessed Escutcheon



Recessed Escutcheon provides a finished appearance. It comes complete with a tension collar, and available in white or bronze to match sprinklers.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q71801WH	¾" Recessed Escutcheon, White, spare part	-	25	\$7.50
Q71801BR	¾" Recessed Escutcheon, Bronze, spare part	-	25	\$12.00

## Recessed Sprinkler Wrench



This specially designed Recessed Sprinkler Wrench quickly and easily allows access to service recessed sprinkler assemblies.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7500200	Recessed Sprinkler Wrench	1	-	\$160.00

## Recessed Protective Cap



The Recessed Protective Cap (plastic) protects the sprinklers from dust, paint and other hazards that might damage the sprinkler during the finishing work. Remove the cap after all finishing work is complete.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7160050	Recessed Protective Cap, spare part	-	25	\$2.50

## Sprinkler Manifolds and Fittings

### ProPEX 1" (type L) Copper Branch Manifold



ProPEX 1" Copper Branch Manifold has ½" ProPEX outlets brazed to manifold trunk. Sweat manifolds together to create the desired number of outlets. Do not exceed acceptable flow rates for 1-inch nominal copper.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2801050	1" Copper Branch Manifold with ½" ProPEX outlets, 4 outlets	1	-	\$44.40
Q2811050	1" Copper Branch Manifold with ½" ProPEX outlets, 6 outlets	1	-	\$60.10
Q2821050	1" Copper Branch Manifold with ½" ProPEX outlets, 8 outlets	1	-	\$75.70
Q2831050	1" Copper Branch Manifold with ½" ProPEX outlets, 10 outlets	1	-	\$94.70
Q2841050	1" Copper Branch Manifold with ½" ProPEX outlets, 12 outlets	1	-	\$115.60

# Uponor AQUASAFE® Network Fire Safety Systems

ProPEX Brass Tee makes diverting connections for Wirsbo AQUAPEX tubing in supply and return mains. Branch size is listed last in the part description.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4705050	ProPEX Brass Tee, 1/2" PEX x 1/2" PEX x 1/2" PEX	25	100	\$5.55

**ProPEX Brass Tee**



ProPEX Brass Elbow makes tight 90-degree connections for Wirsbo AQUAPEX tubing in supply and return mains.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4710500	ProPEX Brass Elbow, 1/2" PEX x 1/2" PEX	25	100	\$4.55

**ProPEX Brass Elbow**



ProPEX Brass Coupling makes PEX-to-PEX connections.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4545050	ProPEX Brass Coupling, 1/2" PEX x 1/2" PEX	25	100	\$2.70

**ProPEX Brass Coupling**



## Tubing Supports

Plastic Bend Support (glass-reinforced nylon) provides rigid 90-degree bend and sleeve for 1/2" Wirsbo AQUAPEX tubing.

**NEW**

Part No.	Part Description	Each. Qty.	Pkg. Qty.	List Price/Ea.
A5250500	1/2" Plastic Bend Support	-	25	\$1.40

**Plastic Bend Support**



Metal Bend Support (zinc-plated) provides rigid 90-degree bend for 1/2" Wirsbo AQUAPEX tubing.

Part No.	Part Description	Each. Qty.	Pkg. Qty.	List Price/Ea.
A5110500	1/2" Metal Bend Support	-	50	\$4.10

**Metal Bend Support**





# Uponor AQUASAFE® Network Fire Safety Systems

## PVC Bend Support



PVC Bend Support provides rigid 90-degree bend and sleeve for 3/4" Wirsbo AQUAPEX tubing runs exiting a concrete slab.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5500500	3/4" PVC Elbow for 3/8" and 1/2" PEX Bend Support	-	25	\$2.05

## Tubing Clip

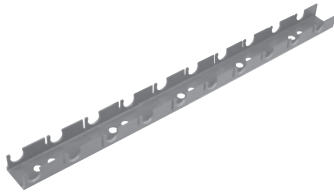


Tubing Clip secures 1/2" Wirsbo AQUAPEX tubing in shallow installations where the Tube Talon would be too thick.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7400501	Tubing Clip, 1/2", 6/box	1	-	\$12.00

## Tube Fasteners and Protectors

### PEX Rail

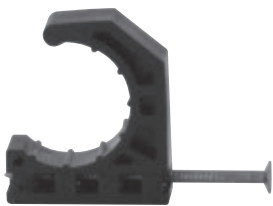


Plastic PEX Rail secures Wirsbo AQUAPEX tubing products to metal and wood-support structures.

**Note:** Suitable fastening hardware is required (not included).

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5700500	1/2" PEX Rail, 6.5 ft.	1	16	\$8.90

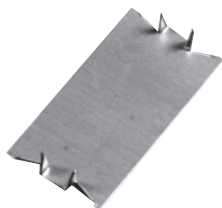
### Tube Talon



Tube Talon secures 1/2" Wirsbo AQUAPEX tubing. Fasteners are included.

Part No.	Part Description	Each Qty.	Case Qty.	List Price/Ea.
F7050750	Tube Talon (1/2", 5/8", 3/4" PEX), 100/bag	1	10	\$21.70

### Steel Plate Protector



Steel Plate Protector protects tubing from possible damage by drywall, trim screws or nails, etc.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F5700002	Steel Plate Protector, 100/box	1	-	\$29.50

# Uponor AQUASAFE® Fire Safety Systems

## Test Equipment

This kit is used to perform a flow test to ensure proper system operation and flow. The kit contains two straight lengths of 3/4" Wirsbo AQUAPEX tubing, four test orifices, a 1-inch ball valve, a flow meter, assorted hardware, and assembly and installation instructions.

**Note:** Perform a flow test on every system installed to ensure consistency with the system design.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7602000	In-line Flow Test Kit	1	-	\$500.00
Q7602001	In-line Flow Meter, replacement part	1	-	\$350.00

### In-line Flow Test Kit



The Test Orifice is attached to the end of the PEX connector on the In-line Flow Test Kit. Use the appropriate orifice, as sprinklers vary in orifice size.

**Note:** Test orifices are color-coded for easy identification.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q7500040	Test Orifice for F1/Res 40 Sprinkler, Grey, spare part	-	10	\$25.00
Q7500049	Test Orifice for F1/Res 49 Sprinkler, Black, spare part	-	10	\$25.00
Q7500043	Test Orifice for RFC 43 Sprinkler, Bright Brass, spare part	-	10	\$25.00
Q7500044	Test Orifice for F1/Res 44 Sprinkler, Blue, spare part	-	10	\$25.00

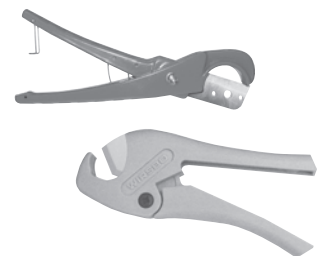
### Test Orifice



Metal Tube Cutter cuts up to 1" PEX tubing. Plastic Tube Cutter cuts up to 1" PEX or 3/4" MLC tubing.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6081125	Tube Cutter (metal) for up to 1" PEX	1	-	\$32.90
E6081140	Tube Cutter Replacement Blade for E6081125, spare part	1	-	\$12.00
E6081128	Tube Cutter (plastic) for up to 1" PEX (3/4" MLC Tubing)	1	-	\$26.45
E6081143	Tube Cutter Replacement Blade for E6081128, spare part	1	-	\$19.15

### Tube Cutter



# Uponor AQUASAFE® Fire Safety Systems

## Ratchet-style Tube Cutter



Ratchet-style PEX Tube Cutter cuts up to 1" PEX and MLC. Ratchet-style Large Dimension Tube Cutter cuts 1" to 2" PEX and 1" MLC.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6081500	Ratchet-style Tube Cutter for up to 1" PEX and MLC Tubing	1	-	\$32.85
E6081544	Tube Cutter Replacement Blade for E6081500, spare part	1	-	\$14.95
E6082000	Ratchet-style Large Dimension Tube Cutter for 1" to 2" PEX and 1" MLC Tubing	1	-	\$235.95

## Tube Handling

### Select Uncoiler



The Select Uncoiler facilitates the uncoiling of 5/16" to 1" Wirsbo AQUAPEX or up to 5/8" multi-layer composite (MLC) tubing, which simplifies installation and reduces labor. The robust construction features an adjustable reel to allow for either horizontal or vertical position uncoiling. The durable wheels make for easier portability and the uncoiler is equipped with a tubing-feed eyelet.

**Note:** Due to large coil inside diameters, the Select Uncoiler cannot support 1,000-foot coils of 5/8" and larger MLC tubing products.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6062000	Select Uncoiler	1	-	\$1,470.10

### Compact Select Uncoiler



The Compact Select Uncoiler facilitates the uncoiling of 5/16" to 1" Wirsbo AQUAPEX or MLC tubing. The entire 65-pound unit conveniently collapses into its own heavy-duty, compact carrying case, allowing for quick and efficient transport of the uncoiler as well as easy storage when not in use.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6063000	Compact Select Uncoiler	1	-	\$941.25

### Tube Uncoiler



The Tube Uncoiler facilitates the uncoiling of 5/16" to 1" Wirsbo AQUAPEX tubing, which simplifies installation and reduces labor. Weighted arms hold tubing in place while uncoiling. Eyelet keeps tubing from tangling. Base is collapsible. No additional hardware necessary for attaching arms. Easy to assemble.

**Note:** Upon assembly, install the guide pin on the swivel arm in order to keep the arm in place.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6061000	Tube Uncoiler	1	-	\$418.35

# Uponor AQUASAFE® Fire Safety Systems

## ProPEX Tools and Accessories

The electro-mechanical, ProPEX 150 Battery Expander Tool expands 3/8", 1/2", 5/8", 3/4", 1", 1 1/4" and 1 1/2" Wirsbo AQUAPEX tubing using the ProPEX connection method. This ProPEX Battery Expander Tool uses the H-series ProPEX Expander Heads up to 1 1/2" as well as the standard ProPEX Expander Heads. The standard kit includes the Battery Expander Tool, two batteries, one battery charger, lubricant for expander heads and a heavy-duty carrying case. The Deluxe kit includes all the components of the standard kit plus the Auto-rotation adapter, 1/2", 3/4" and 1" regular ProPEX expander heads.

### ProPEX 150 Battery Expander Tool Kit and Accessories



**Note:** ProPEX Expander Heads sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6261500	ProPEX 150 Battery Expander Tool Kit	1	-	\$1,528.55
<b>NEW</b> Q6261550	ProPEX 150 Deluxe Battery Expander Tool Kit	1	-	\$2,128.30
Q6260100	ProPEX 150 Battery, replacement part	1	-	\$218.75
Q6260600	ProPEX 150 Battery Charger, replacement part	1	-	\$135.85

Designed to use with all standard expander tools and standard expander heads (3/8" to 1"), the ProPEX Auto Rotation Adapter eliminates the need to rotate the tubing when making ProPEX connections.

### ProPEX Auto Rotation Adapter



**Note:** The ProPEX Auto Rotation Adapter is not compatible with the ProPEX 200 Battery Expander Tool or H-series Expander Heads.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> Q6323810	ProPEX Auto Rotation Adapter	1	-	\$304.20

ProPEX Air (pneumatic) Expander Tool expands 3/8", 1/2", 3/4" and 1" Wirsbo AQUAPEX tubing products using the ProPEX connection method. Kit includes 1/2" head, lubricant, carrying case and 4 oz. bottle of pneumatic oil.

### ProPEX Air Expander Tool Kit



**Note:** 3/8", 3/4" and 1" Expander Heads sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6301000	ProPEX Air Expander Tool Kit	1	-	\$1,134.50
Q6301010	ProPEX Air Expander Oil, 4 oz. bottle, replacement part	1	-	\$3.05

# Uponor AQUASAFE® Fire Safety Systems

## ProPEX Hand Expander Tool Kit



The ProPEX Hand (Manual) Expander Tool Kit includes 1/2", 3/4" and 1" heads, tool lubricant and a sturdy carrying case.

**Note:** The 3/8" expander head is sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6295075	ProPEX Hand Expander Tool Kit	1	-	\$597.10
Q6275075	ProPEX Hand Expander Tool only with case	1	-	\$256.75

## ProPEX Standard Expander Head



Standard ProPEX Expander Head is used on all ProPEX Expander Tools.

**Note:** The ProPEX Expander Head is not compatible with the APR Blunt Expander Tool.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6310500	1/2" ProPEX Expander Head	1	-	\$119.50

## Graphite Grease

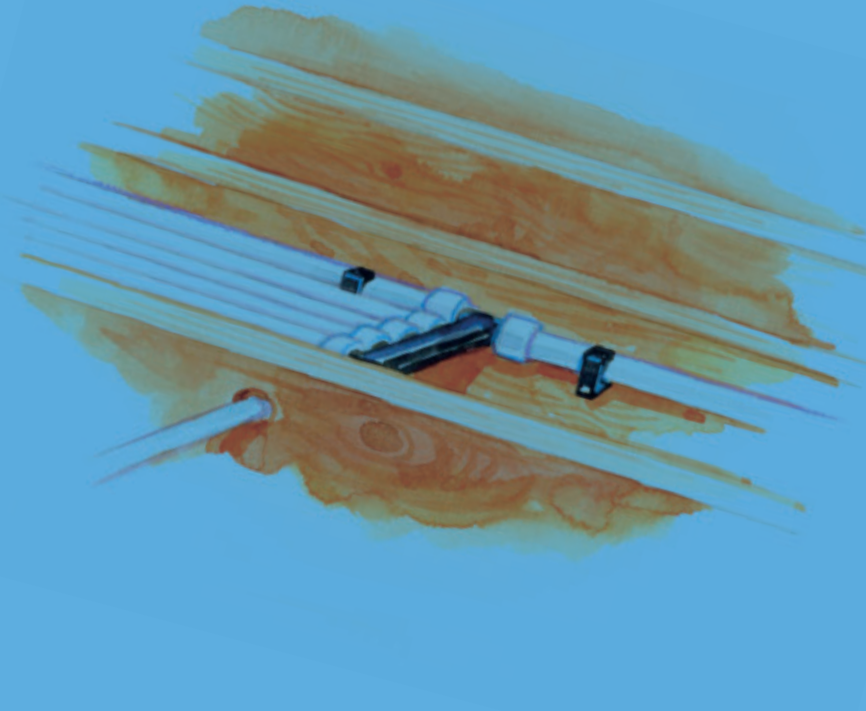


Graphite Grease lubricates ProPEX Expander Tool cones.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q5590028	Graphite Grease for ProPEX Tools (spare part)	1	-	\$37.30

Uponor Logic for Plumbing is about moving water from point A to point B effectively.

- Most flexible
- Easy to use
- Unique, superior fittings
- Smart and intuitive installation
- Raising industry standards
- Peace of mind



# Uponor Plumbing Systems

## Intelligent design. Tailored solutions. Ultimate performance.

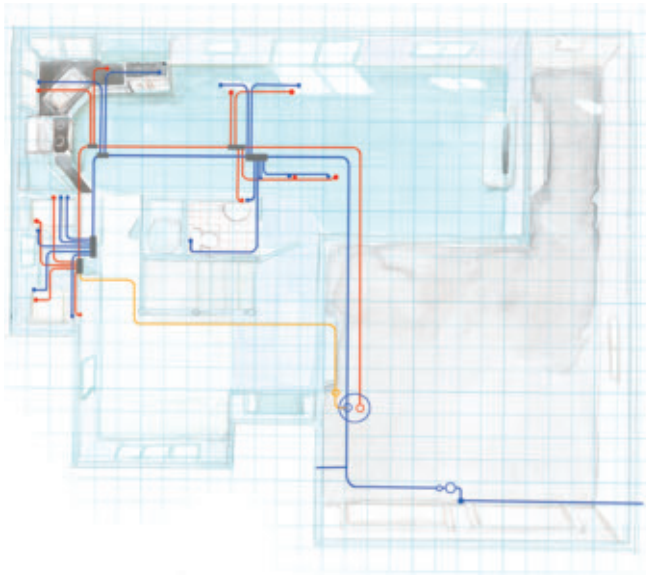
Moving water flawlessly and efficiently is just the beginning. Our crosslinked polyethylene PEX-a tubing is quickly becoming the industry standard. Uponor's Wirsbo AQUAPEX® PEX-a tubing is flexible and easy-to-use. Our unique ProPEX® fittings let installers

work without torches, glues or solvents. Our experienced design and field support staff is available to assist you on the phone or directly on the jobsite. We're committed to develop and provide construction materials and practices that have little or no impact

on the environment. We're creating systems that install more cleanly, use less energy and conserve water. We work closely with you to understand what's important to you to create better living environments for your customers. That's Uponor Logic at work.

### Uponor Logic for Plumbing using engineered plastic (EP) Multi-port Tees

First Floor



Second Floor



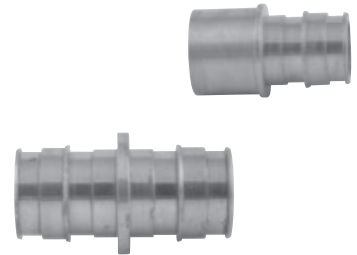
### Plumbing method summary (typical 2,300 sq ft house)

Uponor Logic	Trunk and Branch	Home Run
<ul style="list-style-type: none"> <li>• 14 Fittings</li> <li>• 51 Connections</li> <li>• 490 Feet of tubing</li> <li>• Low connection count means reduced liability</li> <li>• Efficient installations</li> </ul>	<ul style="list-style-type: none"> <li>• 75 Fittings</li> <li>• 174 Connections</li> <li>• 500 Feet of tubing</li> </ul>	<ul style="list-style-type: none"> <li>• 9 Fittings</li> <li>• 41 Connections</li> <li>• 925 Feet of tubing</li> <li>• Low connection count, but much more tubing used</li> </ul>

See our full offering of EP Multi-port Tees on pages 121-123.

## Uponor Extends 2" Wirsbo AQUAPEX® Offering

Uponor expanded its Wirsbo AQUAPEX® offering to include 2" tubing along with a complete line of 2" fittings, tools and accessories. The offering includes Uponor's exclusive ProPEX® fittings along with the ProPEX 200 Battery Expander Tool. The following table is a complete listing of all 2" Wirsbo AQUAPEX products. These products are also listed throughout the catalog in their respective categories.



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price (ft./ea.)	List Price/Pkg.
F1922000	2" Wirsbo AQUAPEX tubing, 20-ft. straight length, 100 ft.	-	100'	\$8.74	\$874.15
<b>NEW</b> F1062000	2" Wirsbo AQUAPEX tubing, 100-ft. coil	-	100'	\$8.74	\$874.15
<b>NEW</b> F1052000	2" Wirsbo AQUAPEX tubing, 200-ft. coil	-	200'	\$8.74	\$1,748.30
<b>NEW</b> F1022000	2" Wirsbo AQUAPEX tubing, 300-ft. coil	-	300'	\$8.74	\$2,622.45
<b>NEW</b> F8052000	2" Expansion Joint Kit	1	-	\$326.00	\$326.00
<b>NEW</b> Q4352000	ProPEX EP Plug for 2" PEX	-	5	\$32.75	\$163.75
Q4682000	ProPEX Ring, 2" (blue print)	-	10	\$2.15	\$21.50
<b>NEW</b> G4522020	ProPEX DZR Brass Male Threaded Adapter, 2" PEX x 2" NPT	-	5	\$149.70	\$748.50
<b>NEW</b> G4542020	ProPEX DZR Brass Coupling, 2" PEX x 2" PEX	-	5	\$151.95	\$759.75
Q4502020	ProPEX Brass Fitting Adapter, 2" PEX x 2" Copper	-	5	\$70.10	\$350.50
Q4512020	ProPEX Brass Sweat Adapter, 2" PEX x 2" Copper	-	5	\$78.85	\$394.25
Q4522020	ProPEX Brass Male Threaded Adapter, 2" PEX x 2" NPT	-	5	\$95.05	\$475.25
Q4532000	ProPEX Brass Plug for 2" PEX	-	5	\$98.05	\$490.25
Q4542015	ProPEX Brass Coupling, 2" PEX x 1½" PEX	-	5	\$66.35	\$331.75
Q4542020	ProPEX Brass Coupling, 2" PEX x 2" PEX	-	5	\$102.95	\$514.75
Q4572020	ProPEX Brass Female Threaded Adapter, 2" PEX x 2" NPT	-	5	\$160.75	\$803.75
Q4702000	ProPEX Brass Tee, 2" PEX x 2" PEX x 2" PEX	-	5	\$175.05	\$875.25
Q4702575	ProPEX Brass Reducing Tee, 2" PEX x 1½" PEX x ¾" PEX	-	5	\$148.70	\$743.50
Q4702051	ProPEX Brass Reducing Tee, 2" PEX x 1½" PEX x 1" PEX	-	5	\$142.95	\$714.75
Q4702053	ProPEX Brass Reducing Tee, 2" PEX x 1½" PEX x 1¼" PEX	-	5	\$168.45	\$842.25
Q4702055	ProPEX Brass Reducing Tee, 2" PEX x 1½" PEX x 1½" PEX	-	5	\$180.20	\$901.00
Q4702275	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x ¾" PEX	-	5	\$148.70	\$743.50
Q4702210	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x 1" PEX	-	5	\$148.45	\$742.25
Q4702213	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x 1¼" PEX	-	5	\$161.10	\$805.50
Q4702215	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x 1½" PEX	-	5	\$170.80	\$854.00
Q4712000	ProPEX Brass Elbow, 2" PEX x 2" PEX	-	5	\$143.10	\$715.50
Q6262000	ProPEX 200 Battery Expander Tool Kit (includes 2" Pistol, 1½" Pistol, 2" H-series Expander Head, 10-foot Hydraulic Hose, Hydraulic Pump, two batteries, battery charger, expander head lubricant, operation manual and roller case)	1	-	\$9,273.80	\$9,273.80
Q6260200	ProPEX 200 Battery, replacement part	1	-	\$488.50	\$488.50
Q6260700	ProPEX 200 Battery Charger, replacement part	1	-	\$417.30	\$417.30
Q6260002	ProPEX 200 Roller Case, replacement part	1	-	\$670.00	\$670.00
Q6282000	2" H-series ProPEX Expander Head	1	5	\$503.40	\$2,517.00



# Uponor Plumbing Systems

## Wirsbo AQUAPEX Tubing

Wirsbo AQUAPEX tubing is used in hot and cold potable water distribution systems and Uponor residential fire safety systems. Wirsbo AQUAPEX tubing is suitable for use in hydronic heating applications where the system contains no ferrous corrodible components or where any ferrous components are isolated from the tubing. Wirsbo AQUAPEX tubing coils and straight lengths are a natural color.

Wirsbo AQUAPEX tubing is manufactured and listed to ASTM F876 and F877 and CSA B137.5, certified to NSF Standards 14 and 61 and listed by the Hydrostatic Stress Board of PPI at 200°F at 80 psi, 180°F at 100 psi and 73.4°F at 160 psi. Wirsbo AQUAPEX tubing (½", ¾" and 1" sizes only) is listed to UL 1821 and ULC/ORD C199P and carries an additional rating of 120°F at 130 psi.

### Wirsbo AQUAPEX Tubing Coil— Natural



Part No.	Part Description	Coil/Pallet	List Price/Ea.
F1040250	¼" Wirsbo AQUAPEX tubing, 100-ft. coil	50	\$56.05
F1090375	⅜" Wirsbo AQUAPEX tubing, 400-ft. coil	18	\$229.05
F1120375	⅜" Wirsbo AQUAPEX tubing, 1,000-ft. coil	12	\$572.65
F1040500	½" Wirsbo AQUAPEX tubing, 100-ft. coil	22	\$65.45
F1060500	½" Wirsbo AQUAPEX tubing, 300-ft. coil	18	\$196.30
F1120500	½" Wirsbo AQUAPEX tubing, 1,000-ft. coil	8	\$654.45
F1060625	⅝" Wirsbo AQUAPEX tubing, 300-ft. coil	12	\$297.15
F1120625	⅝" Wirsbo AQUAPEX tubing, 1,000-ft. coil	5	\$990.55
F1040750	¾" Wirsbo AQUAPEX tubing, 100-ft. coil	11	\$112.20
F1060750	¾" Wirsbo AQUAPEX tubing, 300-ft. coil	12	\$336.55
F1100750	¾" Wirsbo AQUAPEX tubing, 500-ft. coil	8	\$560.95
F1041000	1" Wirsbo AQUAPEX tubing, 100-ft. coil	12	\$196.30
F1061000	1" Wirsbo AQUAPEX tubing, 300-ft. coil	5	\$589.00
F1101000	1" Wirsbo AQUAPEX tubing, 500-ft. coil	6	\$981.65
F1061250	1¼" Wirsbo AQUAPEX tubing, 100-ft. coil	7	\$375.15
F1021250	1¼" Wirsbo AQUAPEX tubing, 300-ft. coil	2	\$1,125.40
F1061500	1½" Wirsbo AQUAPEX tubing, 100-ft. coil	7	\$441.75
F1021500	1½" Wirsbo AQUAPEX tubing, 300-ft. coil	2	\$1,325.25
<b>NEW</b> F1062000	2" Wirsbo AQUAPEX tubing, 100-ft. coil	1	\$874.15
<b>NEW</b> F1052000	2" Wirsbo AQUAPEX tubing, 200-ft. coil	1	\$1,748.30
<b>NEW</b> F1022000	2" Wirsbo AQUAPEX tubing, 300-ft. coil	1	\$2,622.45

# Uponor Plumbing Systems

2" Wirsbo AQUAPEX Expansion Joint Kit includes two ProPEX Brass Elbows (Q4712000) and four ProPEX Rings (Q4682000).

## 2" Wirsbo AQUAPEX Expansion Joint Kit

Part No.	Part Description	Coil/Pallet	List Price/Ea.
<b>NEW</b> F8052000	2" Wirsbo AQUAPEX Expansion Joint Kit	1	\$326.00



Part No.	Part Description	List Price/Ea.
F1930500	½" Wirsbo AQUAPEX tubing, 20-ft. straight length, 500 ft.	\$327.20
F1930750	¾" Wirsbo AQUAPEX tubing, 20-ft. straight length, 300 ft.	\$336.55
F1921000	1" Wirsbo AQUAPEX tubing, 20-ft. straight length, 200 ft.	\$392.70
F1921250	1¼" Wirsbo AQUAPEX tubing, 20-ft. straight length, 100 ft.	\$375.15
F1921500	1½" Wirsbo AQUAPEX tubing, 20-ft. straight length, 100 ft.	\$441.75
F1922000	2" Wirsbo AQUAPEX tubing, 20-ft. straight length, 100 ft.	\$874.15

## Wirsbo AQUAPEX Tubing Straight Length — Natural



## Wirsbo AQUAPEX plus Tubing

Wirsbo AQUAPEX plus is used in hot and cold potable water distribution systems and Uponor residential fire safety systems. Wirsbo AQUAPEX plus tubing is suitable for use in hydronic heating applications where the system contains no ferrous corrodible components or where any ferrous components are isolated from the tubing. Wirsbo AQUAPEX plus tubing coils and straight lengths are available in red and blue.

Wirsbo AQUAPEX plus tubing is manufactured and listed to ASTM F876 and F877 and CSA B137.5, certified to NSF Standards 14 and 61 and listed by the Hydrostatic Stress Board of PPI at 200°F at 80 psi, 180°F at 100 psi and 73.4°F at 160 psi.

Part No.	Part Description	Coil/Pallet	List Price/Ea.
F2040500	½" Wirsbo AQUAPEX tubing plus — Red, 100-ft. coil	22	\$65.45
F2060500	½" Wirsbo AQUAPEX tubing plus — Red, 300-ft. coil	18	\$196.30
F2120500	½" Wirsbo AQUAPEX tubing plus — Red, 1,000-ft. coil	8	\$654.45
F2040750	¾" Wirsbo AQUAPEX tubing plus — Red, 100-ft. coil	11	\$112.20
F2060750	¾" Wirsbo AQUAPEX tubing plus — Red, 300-ft. coil	12	\$336.55
F2100750	¾" Wirsbo AQUAPEX tubing plus — Red, 500-ft. coil	8	\$560.95
F2041000	1" Wirsbo AQUAPEX tubing plus — Red, 100-ft. coil	12	\$196.30
F2061000	1" Wirsbo AQUAPEX tubing plus — Red, 300-ft. coil	5	\$589.00
F2101000	1" Wirsbo AQUAPEX tubing plus — Red, 500-ft. coil	6	\$981.65

## Wirsbo AQUAPEX plus — Red Tubing Coil



# Uponor Plumbing Systems

## Wirsbo AQUAPEX plus — Red Tubing Straight Length



Part No.	Part Description	List Price/Ea.
F2930500	½" Wirsbo AQUAPEX tubing plus — Red, 20-ft. straight length, 500 ft.	\$327.20
F2930750	¾" Wirsbo AQUAPEX tubing plus — Red, 20-ft. straight length, 300 ft.	\$336.55
F2921000	1" Wirsbo AQUAPEX tubing plus — Red, 20-ft. straight length, 200 ft.	\$392.70

## Wirsbo AQUAPEX plus — Blue Tubing Coil



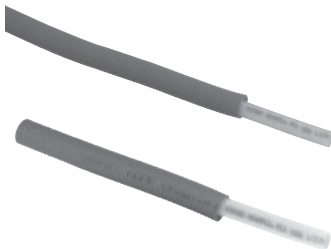
Part No.	Part Description	Coil/Pallet	List Price/Ea.
F3040500	½" Wirsbo AQUAPEX tubing plus — Blue, 100-ft. coil	22	\$65.45
F3060500	½" Wirsbo AQUAPEX tubing plus — Blue, 300-ft. coil	18	\$196.30
F3120500	½" Wirsbo AQUAPEX tubing plus — Blue, 1,000-ft. coil	8	\$654.45
F3040750	¾" Wirsbo AQUAPEX tubing plus — Blue, 100-ft. coil	11	\$112.20
F3060750	¾" Wirsbo AQUAPEX tubing plus — Blue, 300-ft. coil	12	\$336.55
F3100750	¾" Wirsbo AQUAPEX tubing plus — Blue, 500-ft. coil	8	\$560.95
F3041000	1" Wirsbo AQUAPEX tubing plus — Blue, 100-ft. coil	12	\$196.30
F3061000	1" Wirsbo AQUAPEX tubing plus — Blue, 300-ft. coil	5	\$589.00
F3101000	1" Wirsbo AQUAPEX tubing plus — Blue, 500-ft. coil	6	\$981.65

## Wirsbo AQUAPEX plus — Blue Tubing Straight Length



Part No.	Part Description	List Price/Ea.
F3930500	½" Wirsbo AQUAPEX tubing plus — Blue, 20-ft. straight length, 500 ft.	\$327.20
F3930750	¾" Wirsbo AQUAPEX tubing plus — Blue, 20-ft. straight length, 300 ft.	\$336.55
F3921000	1" Wirsbo AQUAPEX tubing plus — Blue, 20-ft. straight length, 200 ft.	\$392.70

## Pre-sleeved Wirsbo AQUAPEX Tubing



Pre-sleeved Wirsbo AQUAPEX tubing is used in hot and cold water distribution systems. The high-density polyethylene (HDPE) corrugated sleeve provides protection for installations in concrete slabs or soil, and allows for removal and replacement of the tubing if required.

Part No.	Part Description	Each Qty.	Pallet Qty.	List Price/Ea.
<b>NEW</b> F1092500	½" Pre-sleeved Wirsbo AQUAPEX tubing — Red Sleeve, 400-ft. coil	1	4	\$440.75
<b>NEW</b> F1091500	½" Pre-sleeved Wirsbo AQUAPEX tubing — Blue Sleeve, 400-ft. coil	1	4	\$440.75
<b>NEW</b> F1092750	¾" Pre-sleeved Wirsbo AQUAPEX tubing — Red Sleeve, 400-ft. coil	1	3	\$680.00
<b>NEW</b> F1091750	¾" Pre-sleeved Wirsbo AQUAPEX tubing — Blue Sleeve, 400-ft. coil	1	3	\$680.00

## EP Multi-port Tees

EP Branch Multi-port Tee features 3/4" ProPEX inlet with 1/2" ProPEX branch outlets. The tee is made of EP, which is proven in demanding hot-water applications.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> Q2237550	3/4" EP Branch Multi-port Tee, 3 outlets	-	10	\$15.10
Q2247550	3/4" EP Branch Multi-port Tee, 4 outlets	-	10	\$21.90
<b>NEW</b> Q2267550	3/4" EP Branch Multi-port Tee, 6 outlets	-	10	\$33.55
Q2261050	1" EP Branch Multi-port Tee, 6 outlets	-	10	\$35.20

### EP Branch Multi-port Tee



EP Flow-through Multi-port Tee features 3/4" ProPEX inlets with 1/2" ProPEX branch outlets or 1" ProPEX inlets or 3/4" ProPEX inlets with 1/2" ProPEX branch outlets. The tee is made of EP, which is proven in demanding hot-water applications.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2227557	EP Flow-through Multi-port Tee, 2 outlets, 3/4" x 3/4" ProPEX	-	10	\$12.90
Q2237557	EP Flow-through Multi-port Tee, 3 outlets, 3/4" x 3/4" ProPEX	-	10	\$17.55
Q2247557	EP Flow-through Multi-port Tee, 4 outlets, 3/4" x 3/4" ProPEX	-	10	\$21.90
Q2241057	EP Flow-through Multi-port Tee, 4 outlets, 1" x 3/4" ProPEX	-	10	\$26.85
<b>NEW</b> Q2267557	EP Flow-through Multi-port Tee, 6 outlets, 3/4" x 3/4" ProPEX	-	10	\$33.55
Q2261057	EP Flow-through Multi-port Tee, 6 outlets, 1" x 3/4" ProPEX	-	10	\$35.20
Q2261051	EP Flow-through Multi-port Tee, 6 outlets, 1" x 1" ProPEX	-	10	\$35.20

### EP Flow-through Multi-port Tee



EP Flow-through Opposing-port Multi-port Tee features 3/4" ProPEX inlets with opposing 1/2" ProPEX branch outlets. These are designed for central location to facilitate piping in two directions. The tee is made of EP, which is proven in demanding hot-water applications.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> Q2337557	EP Flow-through Opposing-port Multi-port Tee, 3 outlets, 3/4" x 3/4" ProPEX	-	10	\$15.60
<b>NEW</b> Q2347557	EP Flow-through Opposing-port Multi-port Tee, 4 outlets, 3/4" x 3/4" ProPEX	-	10	\$21.15
<b>NEW</b> Q2367557	EP Flow-through Opposing-port Multi-port Tee, 6 outlets, 3/4" x 3/4" ProPEX	-	10	\$32.45

### EP Flow-through Opposing-port Multi-port Tee



# Uponor Plumbing Systems

## EP Branch Opposing-port Multi-port Tee



EP Branch Opposing-port Multi-port Tee features a 3/4" ProPEX inlet with opposing 1/2" ProPEX branch outlets. These are designed for central location to facilitate piping in two directions. The tee is made of EP, which is proven in demanding hot-water applications.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> Q2337550	3/4" EP Branch Opposing-port Multi-port Tee, 3 outlets	-	10	\$15.65
<b>NEW</b> Q2347550	3/4" EP Branch Opposing-port Multi-port Tee, 4 outlets	-	10	\$21.00
<b>NEW</b> Q2387550	3/4" EP Branch Opposing-port Multi-port Tee, 8 outlets	-	10	\$35.60

## EP Flow-through Roll-out Multi-port Tee



EP Flow-through Vertical Multi-port Tee features an integrated vertical 3/4" ProPEX tee with 1/2" ProPEX branch outlets. The Multi-port Tee is designed for demanding slab-on-grade plumbing applications, and eliminates the need for multiple connections. The tee is made of EP, which is proven in demanding hot-water applications.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> Q2237757	EP Flow-through Multi-port Vertical Tee, 3 outlets, 3/4" x 3/4" x 3/4" ProPEX	-	10	\$30.60
<b>NEW</b> Q2247757	EP Flow-through Multi-port Vertical Tee, 4 outlets, 3/4" x 3/4" x 3/4" ProPEX	-	10	\$34.20

EP Flow-through Multi-port Horizontal Tee features an integrated horizontal 3/4" ProPEX tee with 1/2" ProPEX branch outlets. The Multi-port Tee is designed for demanding slab-on-grade plumbing applications, and eliminates the need for multiple connections. The tee is made of EP, which is proven in demanding hot-water applications.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> Q2247577	EP Flow-through Multi-port Horizontal Tee, 4 outlets, 3/4" x 3/4" x 3/4" ProPEX	-	10	\$34.20

## EP Flow-through Roll-out Multi-port Elbow



EP Flow-through Multi-port Elbow features an integrated 3/4" ProPEX elbow with 1/2" ProPEX branch outlets. The elbow is designed for demanding slab-on-grade plumbing applications, and eliminates the need for multiple connections. The elbow is made of EP, which is proven in demanding hot-water applications.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> Q2235577	EP Flow-through Multi-port Elbow, 3 outlets, 3/4" x 3/4" ProPEX	-	10	\$26.10
<b>NEW</b> Q2245577	EP Flow-through Multi-port Elbow, 4 outlets, 3/4" x 3/4" ProPEX	-	10	\$26.10

# Uponor Plumbing Systems

EP Branch Multi-port Elbow features an integrated 3/4" or 1" ProPEX elbow inlet with 1/2" ProPEX branch outlets. The elbow is designed for commercial plumbing applications, and eliminates the need for multiple connections. The elbow is made of EP, which is proven in demanding hot-water applications.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

## EP Branch Multi-port Elbow

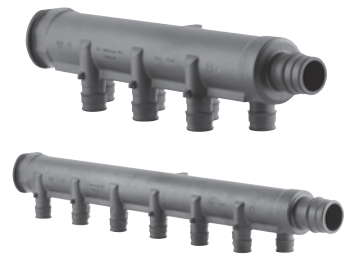


	Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b>	Q2077550	3/4" EP Branch Multi-port Elbow, 7 outlets	-	5	\$45.05
<b>NEW</b>	Q2087550	3/4" EP Branch Multi-port Elbow, 8 outlets	-	5	\$49.00
<b>NEW</b>	Q2101000	1" EP Branch Multi-port Elbow, 10 outlets	-	5	\$52.15

EP Branch Multi-port Tee features an integrated 3/4" or 1" ProPEX inlet with 1/2" ProPEX branch outlets. The tee is designed for commercial plumbing applications, and eliminates the need for multiple connections. The elbow is made of EP, which is proven in demanding hot-water applications.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

## EP Branch Multi-port Tee



	Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b>	Q2277550	3/4" EP Branch Multi-port Tee, 7 outlets	-	5	\$45.00
<b>NEW</b>	Q2287550	3/4" EP Branch Multi-port Tee, 8 outlets	-	5	\$49.20
<b>NEW</b>	Q2101051	1" EP Branch Multi-port Tee, 10 outlets	-	5	\$52.00
<b>NEW</b>	Q2121051	1" EP Branch Multi-port Tee, 12 outlets	-	5	\$55.75

## ProPEX Fittings

A ProPEX Ring is required to make a ProPEX connection. The 1/2" rings now include a leading edge chamfer and integral stop edge to further simplify the use of ProPEX. Red and blue print on the rings distinguishes hot and cold lines.

## ProPEX Ring



	Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
	Q4690301	ProPEX Ring, 3/8" (red print)	50	500	\$0.17
	Q4690302	ProPEX Ring, 3/8" (blue print)	50	500	\$0.17
<b>NEW</b>	Q4690511	ProPEX Ring with Stop, 1/2" (red print)	50	2,000	\$0.17
<b>NEW</b>	Q4690512	ProPEX Ring with Stop, 1/2" (blue print)	50	2,000	\$0.17
	Q4690751	ProPEX Ring, 3/4" (red print)	50	1,000	\$0.30
	Q4690752	ProPEX Ring, 3/4" (blue print)	50	1,000	\$0.30
	Q4681000	ProPEX Ring, 1" (blue print)	50	500	\$0.50
	Q4681250	ProPEX Ring, 1 1/4" (black print)	10	200	\$0.80
	Q4681500	ProPEX Ring, 1 1/2" (black print)	5	100	\$1.05
	Q4682000	ProPEX Ring, 2" (blue print)	10	100	\$2.15

# Uponor Plumbing Systems

## ProPEX EP Coupling

ProPEX EP Coupling makes PEX-to-PEX connections.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.



**NEW**

**NEW**

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4773838	ProPEX EP Coupling, 3/8" PEX x 3/8" PEX	25	100	\$1.30
Q4775050	ProPEX EP Coupling, 1/2" PEX x 1/2" PEX	25	100	\$1.35
Q4775075	ProPEX EP Coupling, 1/2" PEX x 3/4" PEX	25	100	\$2.75
Q477575	ProPEX EP Coupling, 3/4" PEX x 3/4" PEX	25	100	\$1.65
Q4777510	ProPEX EP Coupling, 3/4" PEX x 1" PEX	10	100	\$3.95
Q4771010	ProPEX EP Coupling, 1" PEX x 1" PEX	10	100	\$2.50

## ProPEX EP Elbow

ProPEX EP Elbow makes tight 90-degree connections for Wirsbo AQUAPEX tubing in supply and return mains.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.



Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4760500	ProPEX EP Elbow, 1/2" PEX x 1/2" PEX	25	100	\$1.60
Q4760750	ProPEX EP Elbow, 3/4" PEX x 3/4" PEX	25	100	\$1.95
Q4761000	ProPEX EP Elbow, 1" PEX x 1" PEX	10	100	\$4.10
Q4761250	ProPEX EP Elbow, 1 1/4" PEX x 1 1/4" PEX	10	100	\$10.60
Q4761500	ProPEX EP Elbow, 1 1/2" PEX x 1 1/2" PEX	10	100	\$13.45

## ProPEX EP Tee

ProPEX EP Tee makes diverting connections for Wirsbo AQUAPEX tubing in supply and return mains. Branch size is listed last in the part description.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.



Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4755050	ProPEX EP Tee, 1/2" PEX x 1/2" PEX x 1/2" PEX	25	100	\$1.60
Q4757575	ProPEX EP Tee, 3/4" PEX x 3/4" PEX x 3/4" PEX	25	100	\$2.55
Q4751010	ProPEX EP Tee, 1" PEX x 1" PEX x 1" PEX	10	100	\$4.60
Q4751313	ProPEX EP Tee, 1 1/4" PEX x 1 1/4" PEX x 1 1/4" PEX	10	100	\$12.00
Q4751515	ProPEX EP Tee, 1 1/2" PEX x 1 1/2" PEX x 1 1/2" PEX	10	100	\$16.05

# Uponor Plumbing Systems

ProPEX EP Reducing Tee makes diverting connections for Wirsbo AQUAPEX tubing in supply and return mains. Branch size is listed last in the part description.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

## ProPEX EP Reducing Tee



Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
<b>NEW</b> Q4755575	ProPEX EP Reducing Tee, 1/2" PEX x 1/2" PEX x 3/4" PEX	25	100	\$6.25
Q4757555	ProPEX EP Reducing Tee, 3/4" PEX x 1/2" PEX x 1/2" PEX	25	100	\$2.45
Q4757557	ProPEX EP Reducing Tee, 3/4" PEX x 1/2" PEX x 3/4" PEX	25	100	\$2.45
Q4757550	ProPEX EP Reducing Tee, 3/4" PEX x 3/4" PEX x 1/2" PEX	25	100	\$2.15
<b>NEW</b> Q4757710	ProPEX EP Reducing Tee, 3/4" PEX x 3/4" PEX x 1" PEX	10	100	\$9.30
Q4751775	ProPEX EP Reducing Tee, 1" PEX x 3/4" PEX x 3/4" PEX	10	100	\$4.05
Q4751751	ProPEX EP Reducing Tee, 1" PEX x 3/4" PEX x 1" PEX	10	100	\$4.85
Q4751150	ProPEX EP Reducing Tee, 1" PEX x 1" PEX x 1/2" PEX	10	100	\$4.25
Q4751175	ProPEX EP Reducing Tee, 1" PEX x 1" PEX x 3/4" PEX	10	100	\$4.65
Q4751317	ProPEX EP Reducing Tee, 1 1/4" PEX x 1" PEX x 3/4" PEX	10	100	\$9.50
Q4751311	ProPEX EP Reducing Tee, 1 1/4" PEX x 1" PEX x 1" PEX	10	100	\$11.10
Q4751337	ProPEX EP Reducing Tee, 1 1/4" PEX x 1 1/4" PEX x 3/4" PEX	10	100	\$11.15
Q4751331	ProPEX EP Reducing Tee, 1 1/4" PEX x 1 1/4" PEX x 1" PEX	10	100	\$11.50
Q4751517	ProPEX EP Reducing Tee, 1 1/2" PEX x 1" PEX x 3/4" PEX	10	100	\$13.35
Q4751511	ProPEX EP Reducing Tee, 1 1/2" PEX x 1" PEX x 1" PEX	10	100	\$13.35
Q4751557	ProPEX EP Reducing Tee, 1 1/2" PEX x 1 1/2" PEX x 3/4" PEX	10	100	\$14.35
Q4751551	ProPEX EP Reducing Tee, 1 1/2" PEX x 1 1/2" PEX x 1" PEX	10	100	\$14.75
Q4751553	ProPEX EP Reducing Tee, 1 1/2" PEX x 1 1/2" PEX x 1 1/4" PEX	10	100	\$15.15

ProPEX EP Plug temporarily or permanently terminates the end of Wirsbo AQUAPEX tubing.

**Note:** ProPEX tool is required. ProPEX Rings sold separately.

## ProPEX EP Plug



Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4350500	ProPEX EP Plug for 1/2" PEX	25	100	\$1.05
Q4350750	ProPEX EP Plug for 3/4" PEX	25	100	\$1.40
Q4351000	ProPEX EP Plug for 1" PEX	10	100	\$2.20
<b>NEW</b> Q4351250	ProPEX EP Plug for 1 1/4" PEX	10	100	\$12.30
<b>NEW</b> Q4351500	ProPEX EP Plug for 1 1/2" PEX	10	100	\$18.90
<b>NEW</b> Q4352000	ProPEX EP Plug for 2" PEX	5	50	\$32.75



# Uponor Plumbing Systems

## ProPEX EP Swivel Closet Adapter



ProPEX EP Swivel Closet Adapter (with plastic nut) connects  $\frac{3}{8}$ " or  $\frac{1}{2}$ " Wirsbo AQUAPEX tubing to water closet.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4340375	ProPEX EP Swivel Closet Adapter, $\frac{3}{8}$ " PEX x $\frac{7}{8}$ " Ballcock	25	100	\$2.95
Q4340500	ProPEX EP Swivel Closet Adapter, $\frac{1}{2}$ " PEX x $\frac{7}{8}$ " Ballcock	25	100	\$2.95

## ProPEX EP Swivel Faucet Adapter



ProPEX EP Swivel Faucet Adapter (with plastic nut) connects  $\frac{1}{2}$ " Wirsbo AQUAPEX tubing to male NPSM faucet connections.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4360500	ProPEX EP Swivel Faucet Adapter, $\frac{1}{2}$ " PEX x $\frac{1}{2}$ " NPSM	25	100	\$2.80

## ProPEX Brass Coupling



ProPEX Brass Coupling makes PEX-to-PEX connections.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
* Q4543838	ProPEX Brass Coupling, $\frac{3}{8}$ " PEX x $\frac{3}{8}$ " PEX	25	100	\$3.05
Q4543850	ProPEX Brass Coupling, $\frac{3}{8}$ " PEX x $\frac{1}{2}$ " PEX	25	100	\$5.35
* Q4545050	ProPEX Brass Coupling, $\frac{1}{2}$ " PEX x $\frac{1}{2}$ " PEX	25	100	\$2.70
* Q4545075	ProPEX Brass Coupling, $\frac{1}{2}$ " PEX x $\frac{3}{4}$ " PEX	25	100	\$8.05
* Q4547575	ProPEX Brass Coupling, $\frac{3}{4}$ " PEX x $\frac{3}{4}$ " PEX	25	100	\$5.65
* Q4547510	ProPEX Brass Coupling, $\frac{3}{4}$ " PEX x 1" PEX	10	100	\$9.60
* Q4541010	ProPEX Brass Coupling, 1" PEX x 1" PEX	10	100	\$10.00
Q4542015	ProPEX Brass Coupling, 2" PEX x $1\frac{1}{2}$ " PEX	5	-	\$66.35
Q4542020	ProPEX Brass Coupling, 2" PEX x 2" PEX	5	-	\$102.95

\* Engineered plastic alternate available in EP section.

## ProPEX Brass to Polyethylene (PE) Coupling



ProPEX Brass to Polyethylene (PE) Coupling transitions black PE tubing to Wirsbo AQUAPEX tubing. Product does not include hose clamps for the PE side of the coupling.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4591010	ProPEX Brass to PE Coupling, 1" PEX x 1" PE	10	100	\$17.65

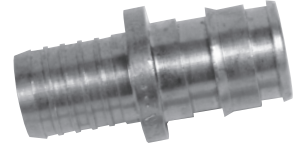
# Uponor Plumbing Systems

ProPEX Brass to Polybutylene (PB) Coupling transitions PB tubing to Wirsbo AQUAPEX tubing. Product does not include the crimp ring for the PB side of the coupling.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4585050	ProPEX Brass to PB Coupling, 1/2" PEX x 1/2" PB	25	100	\$5.00
Q4587575	ProPEX Brass to PB Coupling, 3/4" PEX x 3/4" PB	25	100	\$8.90

## ProPEX Brass to Polybutylene (PB) Coupling



ProPEX Brass Elbow makes tight 90-degree connections for Wirsbo AQUAPEX tubing in supply and return mains.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
* Q4710500	ProPEX Brass Elbow, 1/2" PEX x 1/2" PEX	25	100	\$4.55
* Q4710750	ProPEX Brass Elbow, 3/4" PEX x 3/4" PEX	25	100	\$6.75
* Q4711000	ProPEX Brass Elbow, 1" PEX x 1" PEX	10	100	\$11.15
Q4712000	ProPEX Brass Elbow, 2" PEX x 2" PEX	5	-	\$143.10

\* Engineered plastic alternate available in EP section.

## ProPEX Brass Elbow



ProPEX Drop Ear Brass Elbow provides rigid 90-degree connections and the ability to secure Wirsbo AQUAPEX tubing.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4233850	ProPEX Drop Ear Brass Elbow, 3/8" PEX x 1/2" FIP	25	100	\$14.65
Q4235038	ProPEX Drop Ear Brass Elbow, 1/2" PEX x 3/8" FIP	25	100	\$10.80
Q4235050	ProPEX Drop Ear Brass Elbow, 1/2" PEX x 1/2" FIP	25	100	\$8.35

## ProPEX Drop Ear Brass Elbow



ProPEX Brass Elbow with MIP makes 90-degree connections for 1/2" Wirsbo AQUAPEX tubing to 1/2" male NPT thread.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4125050	ProPEX Brass Elbow, 1/2" PEX x 1/2" MIP	25	100	\$7.95

## ProPEX Brass Elbow with MIP



# Uponor Plumbing Systems

## ProPEX Brass Tee



ProPEX Brass Tee makes diverting connections for Wirsbo AQUAPEX tubing in supply and return mains. Branch size is listed last in the part description.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
* Q4705050	ProPEX Brass Tee, 1/2" PEX x 1/2" PEX x 1/2" PEX	25	100	\$5.55
* Q4707575	ProPEX Brass Tee, 3/4" PEX x 3/4" PEX x 3/4" PEX	25	100	\$8.95
* Q4701010	ProPEX Brass Tee, 1" PEX x 1" PEX x 1" PEX	10	100	\$16.70
Q4702000	ProPEX Brass Tee, 2" PEX x 2" PEX x 2" PEX	-	5	\$175.05

\* Engineered plastic alternate available in EP section.

## ProPEX Brass Reducing Tee



ProPEX Brass Reducing Tee makes diverting connections for Wirsbo AQUAPEX tubing in supply and return mains. Branch size is listed last in the part description.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
* Q4705575	ProPEX Brass Reducing Tee, 1/2" PEX x 1/2" PEX x 3/4" PEX	25	100	\$9.40
* Q4707555	ProPEX Brass Reducing Tee, 3/4" PEX x 1/2" PEX x 1/2" PEX	25	100	\$9.45
* Q4707557	ProPEX Brass Reducing Tee, 3/4" PEX x 1/2" PEX x 3/4" PEX	25	100	\$8.95
* Q4707550	ProPEX Brass Reducing Tee, 3/4" PEX x 3/4" PEX x 1/2" PEX	25	100	\$8.85
* Q4707710	ProPEX Brass Reducing Tee, 3/4" PEX x 3/4" PEX x 1" PEX	10	100	\$14.30
* Q4701775	ProPEX Brass Reducing Tee, 1" PEX x 3/4" PEX x 3/4" PEX	10	100	\$16.70
* Q4701751	ProPEX Brass Reducing Tee, 1" PEX x 3/4" PEX x 1" PEX	10	100	\$16.70
* Q4701150	ProPEX Brass Reducing Tee, 1" PEX x 1" PEX x 1/2" PEX	10	100	\$16.70
* Q4701175	ProPEX Brass Reducing Tee, 1" PEX x 1" PEX x 3/4" PEX	10	100	\$16.70
Q4702575	ProPEX Brass Reducing Tee, 2" PEX x 1 1/2" PEX x 3/4" PEX	5	-	\$148.70
Q4702051	ProPEX Brass Reducing Tee, 2" PEX x 1 1/2" PEX x 1" PEX	5	-	\$142.95
Q4702053	ProPEX Brass Reducing Tee, 2" PEX x 1 1/2" PEX x 1 1/4" PEX	5	-	\$168.45
Q4702055	ProPEX Brass Reducing Tee, 2" PEX x 1 1/2" PEX x 1 1/2" PEX	5	-	\$180.20
Q4702275	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x 3/4" PEX	5	-	\$148.70
Q4702210	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x 1" PEX	5	-	\$148.45
Q4702213	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x 1 1/4" PEX	5	-	\$161.10
Q4702215	ProPEX Brass Reducing Tee, 2" PEX x 2" PEX x 1 1/2" PEX	5	-	\$170.80

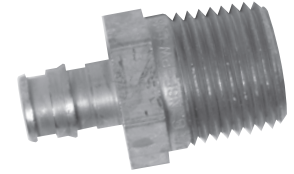
\* Engineered plastic alternate available in EP section.

ProPEX Brass Male Threaded Adapter connects Wirsbo AQUAPEX tubing to male NPT threads and are intended as transition fittings from metal to PEX.

**Note:** ProPEX tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4523850	ProPEX Brass Male Threaded Adapter, 3/8" PEX x 1/2" NPT	25	100	\$3.70
Q4525050	ProPEX Brass Male Threaded Adapter, 1/2" PEX x 1/2" NPT	25	100	\$3.00
Q4525075	ProPEX Brass Male Threaded Adapter, 1/2" PEX x 3/4" NPT	25	100	\$5.40
Q4527575	ProPEX Brass Male Threaded Adapter, 3/4" PEX x 3/4" NPT	25	100	\$5.35
Q4527510	ProPEX Brass Male Threaded Adapter, 3/4" PEX x 1" NPT	10	100	\$8.90
Q4521075	ProPEX Brass Male Threaded Adapter, 1" PEX x 3/4" NPT	10	100	\$7.55
Q4521010	ProPEX Brass Male Threaded Adapter, 1" PEX x 1" NPT	10	100	\$10.70
Q4522020	ProPEX Brass Male Threaded Adapter, 2" PEX x 2" NPT	5	-	\$95.05

## ProPEX Brass Male Threaded Adapter



ProPEX Brass Female Threaded Adapter connects Wirsbo AQUAPEX tubing to female NPT threads and are intended as transition fittings from metal to PEX.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4575050	ProPEX Brass Female Threaded Adapter, 1/2" PEX x 1/2" NPT	25	100	\$6.15
Q4575075	ProPEX Brass Female Threaded Adapter, 1/2" PEX x 3/4" NPT	25	100	\$6.75
Q4577575	ProPEX Brass Female Threaded Adapter, 3/4" PEX x 3/4" NPT	25	100	\$6.90
Q4577510	ProPEX Brass Female Threaded Adapter, 3/4" PEX x 1" NPT	10	100	\$16.05
Q4571075	ProPEX Brass Female Threaded Adapter, 1" PEX x 3/4" NPT	10	100	\$11.75
Q4571010	ProPEX Brass Female Threaded Adapter, 1" PEX x 1" NPT	10	100	\$14.60
Q4572020	ProPEX Brass Female Threaded Adapter, 2" PEX x 2" NPT	5	-	\$160.75

## ProPEX Brass Female Threaded Adapter

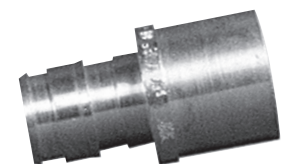


ProPEX Brass Sweat Adapter transitions Wirsbo AQUAPEX tubing to copper pipe.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4513850	ProPEX Brass Sweat Adapter, 3/8" PEX x 1/2" Copper	25	100	\$3.15
Q4515050	ProPEX Brass Sweat Adapter, 1/2" PEX x 1/2" Copper	25	100	\$2.15
Q4515075	ProPEX Brass Sweat Adapter, 1/2" PEX x 3/4" Copper	25	100	\$4.25
Q4517550	ProPEX Brass Sweat Adapter, 3/4" PEX x 1/2" Copper	25	100	\$4.70
Q4517575	ProPEX Brass Sweat Adapter, 3/4" PEX x 3/4" Copper	25	100	\$4.90
Q4517510	ProPEX Brass Sweat Adapter, 3/4" PEX x 1" Copper	10	100	\$7.45
Q4511010	ProPEX Brass Sweat Adapter, 1" PEX x 1" Copper	10	100	\$7.60
Q4512020	ProPEX Brass Sweat Adapter, 2" PEX x 2" Copper	5	-	\$78.85

## ProPEX Brass Sweat Adapter



# Uponor Plumbing Systems

## ProPEX Brass Fitting Adapter



ProPEX Brass Fitting Adapter transitions Wirsbo AQUAPEX tubing to copper fittings.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4503850	ProPEX Brass Fitting Adapter, 3/8" PEX x 1/2" Copper	25	100	\$2.95
Q4505050	ProPEX Brass Fitting Adapter, 1/2" PEX x 1/2" Copper	25	100	\$2.10
Q4505075	ProPEX Brass Fitting Adapter, 1/2" PEX x 3/4" Copper	25	100	\$3.60
Q4507550	ProPEX Brass Fitting Adapter, 3/4" PEX x 1/2" Copper	25	100	\$4.20
Q4507575	ProPEX Brass Fitting Adapter, 3/4" PEX x 3/4" Copper	25	100	\$4.50
Q4507510	ProPEX Brass Fitting Adapter, 3/4" PEX x 1" Copper	10	100	\$5.50
Q4501010	ProPEX Brass Fitting Adapter, 1" PEX x 1" Copper	10	100	\$8.10
Q4502020	ProPEX Brass Fitting Adapter, 2" PEX x 2" Copper	5	-	\$70.10

## ProPEX Brass Plug



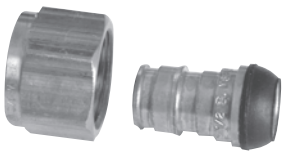
ProPEX Brass Plug temporarily or permanently terminates the end of Wirsbo AQUAPEX tubing.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4533838	ProPEX Brass Plug for 3/8" PEX	25	100	\$2.60
* Q4535050	ProPEX Brass Plug for 1/2" PEX	25	100	\$1.85
* Q4537575	ProPEX Brass Plug for 3/4" PEX	25	100	\$3.65
* Q4531000	ProPEX Brass Plug for 1" PEX	10	100	\$8.55
* Q4532000	ProPEX Brass Plug for 2" PEX	5	-	\$98.05

\* Engineered plastic alternate available in EP section.

## ProPEX Brass Swivel Faucet Adapter



ProPEX Brass Swivel Faucet Adapter connects 3/8" or 1/2" Wirsbo AQUAPEX tubing to male NPSM faucet connections.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4653850	ProPEX Brass Swivel Faucet Adapter, 3/8" PEX x 1/2" NPSM	25	100	\$7.95
* Q4655050	ProPEX Brass Swivel Faucet Adapter, 1/2" PEX x 1/2" NPSM	25	100	\$5.40
Q2120375	ProPEX Brass Swivel Adapter with plastic nut, 3/8" PEX x 1/2" NPSM	25	100	\$5.10

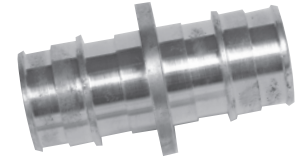
\* Engineered plastic alternate available in EP section.

# Uponor Plumbing Systems

ProPEX DZR Brass Coupling makes PEX-to-PEX connections. DZR fittings are safe for direct burial in soil.

## ProPEX DZR Brass Coupling

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
* G4547575	ProPEX DZR Brass Coupling, 3/4" PEX x 3/4" PEX EP	-	10	\$8.80
* G4541010	ProPEX DZR Brass Coupling, 1" PEX x 1" PEX EP	-	10	\$12.30
G4541307	ProPEX DZR Brass Coupling, 1 1/4" PEX x 3/4" PEX	-	10	\$20.95
G4541310	ProPEX DZR Brass Coupling, 1 1/4" PEX x 1" PEX	-	10	\$25.10
G4541313	ProPEX DZR Brass Coupling, 1 1/4" PEX x 1 1/4" PEX	-	10	\$27.30
G4541507	ProPEX DZR Brass Coupling, 1 1/2" PEX x 3/4" PEX	-	10	\$30.40
G4541510	ProPEX DZR Brass Coupling, 1 1/2" PEX x 1" PEX	-	10	\$31.55
G4541513	ProPEX DZR Brass Coupling, 1 1/2" PEX x 1 1/4" PEX	-	10	\$33.20
G4541515	ProPEX DZR Brass Coupling, 1 1/2" PEX x 1 1/2" PEX	-	10	\$42.05
<b>NEW</b> G4542020	ProPEX DZR Brass Coupling, 2" PEX x 2" PEX	-	5	\$151.95

\* Engineered plastic alternate available in EP section.

ProPEX DZR Brass Elbow makes tight 90-degree connections for Wirsbo AQUAPEX tubing in supply and return mains. DZR brass is safe for direct burial in soil.

## ProPEX DZR Brass Elbow

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
* G4711250	ProPEX DZR Brass Elbow, 1 1/4" PEX x 1 1/4" PEX EP	-	10	\$37.30
* G4711500	ProPEX DZR Brass Elbow, 1 1/2" PEX x 1 1/2" PEX EP	-	10	\$69.10

\* Engineered plastic alternate available in EP section.

ProPEX DZR Brass Tee makes diverting connections for Wirsbo AQUAPEX tubing in supply and return mains. Branch size is listed last in the part description. DZR brass is safe for direct burial in soil.

## ProPEX DZR Brass Tee

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
* G4701250	ProPEX DZR Brass Tee, 1 1/4" PEX x 1 1/4" PEX x 1 1/4" EP	-	10	\$62.15
* G4701500	ProPEX DZR Brass Tee, 1 1/2" PEX x 1 1/2" PEX x 1 1/2" EP	-	10	\$59.85

\* Engineered plastic alternate available in EP section.

# Uponor Plumbing Systems

## ProPEX DZR Brass Reducing Tee



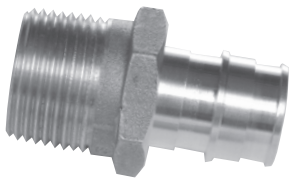
ProPEX DZR Brass Reducing Tee makes diverting connections for Wirsbo AQUAPEX tubing in supply and return mains. Branch size is listed last in the part description. DZR Brass Fittings are safe for direct burial in soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
* G4701317	ProPEX DZR Brass Reducing Tee, 1/4" PEX x 1" PEX x 3/4" PEX	-	10	\$62.20
* G4701311	ProPEX DZR Brass Reducing Tee, 1/4" PEX x 1" PEX x 1" PEX	-	10	\$63.05
* G4701337	ProPEX DZR Brass Reducing Tee, 1/4" PEX x 1/4" PEX x 3/4" PEX	-	10	\$44.05
* G4701331	ProPEX DZR Brass Reducing Tee, 1/4" PEX x 1/4" PEX x 1" PEX	-	10	\$44.40
G4701537	ProPEX DZR Brass Reducing Tee, 1/2" PEX x 1/4" PEX x 3/4" PEX	-	10	\$81.05
G4701531	ProPEX DZR Brass Reducing Tee, 1/2" PEX x 1/4" PEX x 1" PEX	-	10	\$79.80
G4701533	ProPEX DZR Brass Reducing Tee, 1/2" PEX x 1/4" PEX x 1/4" PEX	-	10	\$83.85
* G4701557	ProPEX DZR Brass Reducing Tee, 1/2" PEX x 1/2" PEX x 3/4" PEX	-	10	\$86.45
* G4701551	ProPEX DZR Brass Reducing Tee, 1/2" PEX x 1/2" PEX x 1" PEX	-	10	\$80.75
* G4701553	ProPEX DZR Brass Reducing Tee, 1/2" PEX x 1/2" PEX x 1/4" PEX	-	10	\$100.05

\* Engineered plastic alternate available in EP section.

## ProPEX DZR Brass Male Threaded Adapter



ProPEX DZR Brass Male Threaded Adapter connects Wirsbo AQUAPEX tubing to male NPT threads and are intended as transition fittings from metal to PEX. DZR Brass Fittings are safe for direct burial in soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4527575	ProPEX DZR Brass Male Threaded Adapter, 3/4" PEX x 3/4" NPT	-	10	\$12.25
G4521010	ProPEX DZR Brass Male Threaded Adapter, 1" PEX x 1" NPT	-	10	\$17.25
G4521313	ProPEX DZR Brass Male Threaded Adapter, 1/4" PEX x 1/4" NPT	-	10	\$26.10
G4521515	ProPEX DZR Brass Male Threaded Adapter, 1/2" PEX x 1/2" NPT	-	10	\$36.10
<b>NEW</b> G4522020	ProPEX DZR Brass Male Threaded Adapter, 2" PEX x 2" NPT	-	5	\$149.70

## ProPEX DZR Brass Female Threaded Adapter



ProPEX DZR Brass Female Threaded Adapters connect Wirsbo AQUAPEX tubing to female NPT threads and are intended as transition fittings from metal to PEX. DZR Brass Fittings are safe for direct burial in soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4577575	ProPEX DZR Brass Female Threaded Adapter, 3/4" PEX x 3/4" NPT	-	10	\$15.65
G4571010	ProPEX DZR Brass Female Threaded Adapter, 1" PEX x 1" NPT	-	10	\$17.80
G4571313	ProPEX DZR Brass Female Threaded Adapter, 1/4" PEX x 1/4" NPT	-	10	\$40.95
G4571515	ProPEX DZR Brass Female Threaded Adapter, 1/2" PEX x 1/2" NPT	-	10	\$48.45

# Uponor Plumbing Systems

ProPEX DZR Brass Sweat Adapter transitions Wirsbo AQUAPEX tubing to copper pipe. DZR Brass Fittings are safe for direct burial in the soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4517575	ProPEX DZR Brass Sweat Adapter, 3/4" PEX x 3/4" Copper	-	10	\$10.90
G4511010	ProPEX DZR Brass Sweat Adapter, 1" PEX x 1" Copper	-	10	\$14.45
G4511313	ProPEX DZR Brass Sweat Adapter, 1 1/4" PEX x 1 1/4" Copper	-	10	\$22.65
G4511515	ProPEX DZR Brass Sweat Adapter, 1 1/2" PEX x 1 1/2" Copper	-	10	\$32.55

## ProPEX DZR Brass Sweat Adapter

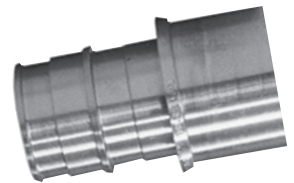


ProPEX DZR Brass Fitting Adapter transitions Wirsbo AQUAPEX tubing to copper fittings. DZR Brass Fittings are safe for direct burial in soil.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
G4501313	ProPEX DZR Brass Fitting Adapter, 1 1/4" PEX x 1 1/4" Copper	-	10	\$19.95
G4501515	ProPEX DZR Brass Fitting Adapter, 1 1/2" PEX x 1 1/2" Copper	-	10	\$32.95

## ProPEX DZR Brass Fitting Adapter



Stainless Steel Male Threaded Adapter transitions Wirsbo AQUAPEX tubing to reverse osmosis units. Due to the aggressive nature of conditioned water produced by reverse osmosis, de-ionization and distillation, Stainless Steel Fittings are manufactured from 316 stainless steel and fully comply with CSA B137.5.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q8525050	ProPEX Stainless Steel Male Threaded Adapter, 1/2" PEX x 1/2" NPT	-	25	\$21.20
Q8527575	ProPEX Stainless Steel Male Threaded Adapter, 3/4" PEX x 3/4" NPT	-	25	\$31.80
Q8521010	ProPEX Stainless Steel Male Threaded Adapter, 1" PEX x 1" NPT	-	10	\$47.70

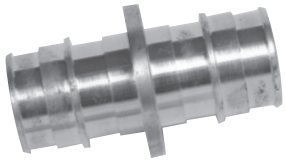
## Stainless Steel Male Threaded Adapter





# Uponor Plumbing Systems

## ProPEX Red Brass Coupling



ProPEX Red Brass Coupling makes PEX to PEX connections. Highly resistant to the affects of aggressive water conditions, published research has repeatedly demonstrated that the red brass is generally regarded as immune to dezincification and stress-corrosion cracking.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
<b>NEW</b> V4543850	ProPEX Red Brass Coupling, 3/8" PEX x 1/2" PEX	25	100	\$10.00

## ProPEX Red Brass Male Threaded Adapter



ProPEX Red Brass Male Threaded Adapter connects Wirsbo AQUAPEX tubing to male NPT threads and are intended as transition fittings from metal to PEX. Highly resistant to the effects of aggressive water conditions, published research has repeatedly demonstrated that red brass is generally regarded as immune to dezincification and stress-corrosion cracking. Red Brass fittings are safe for direct burial in soil in accordance with Uponor installation guidelines.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
<b>NEW</b> V4525050	ProPEX Red Brass Male Threaded Adapter, 1/2" PEX x 1/2" NPT	25	100	\$19.40
<b>NEW</b> V4527575	ProPEX Red Brass Male Threaded Adapter, 3/4" PEX x 3/4" NPT	25	100	\$40.35

## ProPEX Red Brass Sweat Adapter

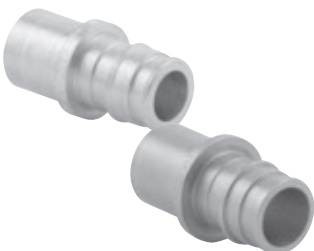


ProPEX Red Brass Sweat Adapter transitions Wirsbo AQUAPEX tubing to copper pipe. Highly resistant to the effects of aggressive water conditions, published research has repeatedly demonstrated that red brass is generally regarded as immune to dezincification and stress-corrosion cracking. Red Brass fittings are safe for direct burial in soil in accordance with Uponor installation guidelines.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
<b>NEW</b> V4515050	ProPEX Red Brass Sweat Adapter, 1/2" PEX x 1/2" Copper	25	100	\$18.45
<b>NEW</b> V4517575	ProPEX Red Brass Sweat Adapter, 3/4" PEX x 3/4" Copper	25	100	\$37.95
<b>NEW</b> V4511010	ProPEX Red Brass Sweat Adapter, 1" PEX x 1" Copper	10	100	\$51.70
<b>NEW</b> V4511313	ProPEX Red Brass Sweat Adapter, 1 1/4" PEX x 1 1/4" Copper	10	-	\$107.85
<b>NEW</b> V4511515	ProPEX Red Brass Sweat Adapter, 1 1/2" PEX x 1 1/2" Copper	10	-	\$124.50

## ProPEX Red Brass Fitting Adapter



ProPEX Red Brass Fitting Adapter connects Wirsbo AQUAPEX tubing to copper fittings. Highly resistant to the effects of aggressive water conditions, published research has repeatedly demonstrated that red brass is generally regarded as immune to dezincification and stress-corrosion cracking. Red Brass fittings are safe for direct burial in soil in accordance with Uponor installation guidelines.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
<b>NEW</b> V4505050	ProPEX Red Brass Fitting Adapter, 1/2" PEX x 1/2" Copper	25	100	\$17.35
<b>NEW</b> V4507575	ProPEX Red Brass Fitting Adapter, 3/4" PEX x 3/4" Copper	25	100	\$34.25

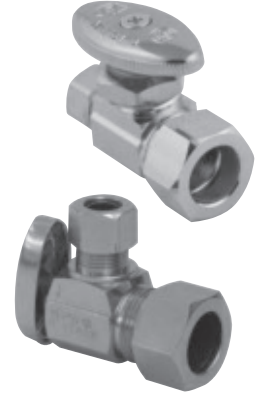
# Uponor Plumbing Systems

Compression Stop Valve is chrome-plated and available in angle or straight stop configurations. Stop valves are used for point-of-use shut-off at the fixture. Both valve styles connect 1/2" Wirsbo AQUAPEX tubing to 3/8" o.d. risers.

**Note:** Compression inserts and rings are included. Only use stainless steel inserts supplied by Uponor with these compression stop valves. Substitution can result in valve connection failure.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
F4410500	Compression Angle Stop Valve for 1/2" PEX	10	100	\$13.35
F4420500	Compression Straight Stop Valve for 1/2" PEX	10	100	\$16.05
F5400250	1/4" Insert (stainless steel)	10	100	\$0.75
F5400500	1/2" Insert (stainless steel)	10	100	\$1.35
F4440500	1/2" Compression Ring (brass)	10	100	\$1.00

## Brass Compression Stop Valve



ProPEX Full-port quarter-turn Stop Valve is chrome-plated and available in either angle or straight stop configurations. Stop valve is used for point-of-use shut-off at the fixture. Both valve styles connect 1/2" Wirsbo AQUAPEX tubing to 3/8" o.d. risers.

**Note:** Compression inserts and rings for the 3/8" riser connections are included with the valves. ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4855038	ProPEX Full-port Angle Stop Valve for 1/2" PEX	10	100	\$10.40
Q4865038	ProPEX Full-port Straight Stop Valve for 1/2" PEX	10	100	\$10.60

## ProPEX Full-port Brass Stop Valve

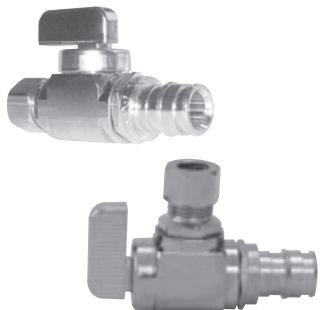


ProPEX quarter-turn Stop Valve is chrome-plated and available in either angle or straight stop configurations. Stop valve is used for point-of-use shut-off at the fixture. Both valve styles connect 1/2" Wirsbo AQUAPEX tubing to 3/8" o.d. risers.

**Note:** Compression inserts and rings for the 3/8" riser connections are included with the valves. ProPEX Tool is required. ProPEX Rings sold separately.

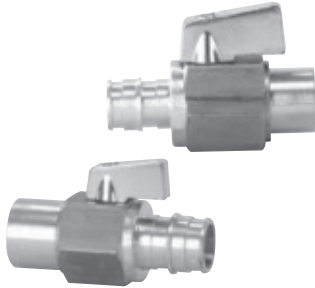
Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4885038	ProPEX Straight Stop Valve for 1/2" PEX	10	100	\$13.40
Q4895038	ProPEX Angle Stop Valve for 1/2" PEX	10	100	\$13.60

## ProPEX Stop Valve



# Uponor Plumbing Systems

## Brass ProPEX to Copper Ball Valve

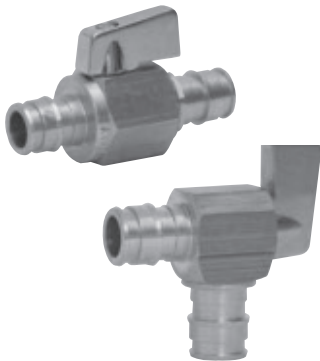


ProPEX to Copper quarter-turn Ball Valve (brass) features a shut-off valve for 3/8", 1/2" and 3/4" Wirsbo AQUAPEX tubing to 1/2" and 3/4" copper pipe. This fitting is not compatible with applications using glycol.

**Note:** ProPEX tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4803850	ProPEX Ball Valve (large bore), 3/8" PEX x 1/2" Copper Adapter	10	100	\$14.45
Q4805050	ProPEX Ball Valve (large bore), 1/2" PEX x 1/2" Copper Adapter	10	100	\$15.30
Q4807575	ProPEX Ball Valve (large bore), 3/4" PEX x 3/4" Copper Adapter	10	100	\$27.75

## Brass ProPEX to ProPEX Ball Valve



ProPEX Ball Valve (brass) is intended as an in-line, shut-off valve for 3/8", 1/2", 3/4" and 1" PEX. ProPEX Angle Ball Valve (brass) features a quarter-turn shut-off valve for 3/8" and 1/2" PEX. This fitting is not compatible with applications using glycol.

**Note:** ProPEX tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4815050	ProPEX Ball Valve (large bore), 1/2" PEX x 1/2" PEX	10	100	\$17.50
Q4817575	ProPEX Ball Valve (large bore), 3/4" PEX x 3/4" PEX	10	100	\$27.05
Q4827575	ProPEX Ball Valve (full port), 3/4" PEX x 3/4" PEX	10	100	\$38.55
Q4821010	ProPEX Ball Valve (full port), 1" PEX x 1" PEX	10	100	\$46.70
Q4875050	ProPEX Angle Ball Valve, 1/2" PEX x 1/2" PEX	10	100	\$14.70
Q4893838	ProPEX Angle Ball Valve, 3/8" PEX x 3/8" PEX	10	100	\$16.75

## Brass ProPEX to MIP Ball Valve



ProPEX Ball Valve (brass) features a shut-off valve between 1/2" Wirsbo AQUAPEX tubing and 1/2" MIP.

**Note:** ProPEX tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q4795050	ProPEX Ball Valve, 1/2" PEX x 1/2" MIP	10	100	\$17.85

# Uponor Plumbing Systems

Lav and Closet Risers are installed with delrin ring (included).

**Note:** Uponor recommends Riser Washers for hot-water applications.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F1072512	3/8" O.D. x 12" Lav Riser	-	100	\$1.25
F1072520	3/8" O.D. x 20" Lav Riser	-	100	\$1.80
F1072530	3/8" O.D. x 30" Lav Riser	-	100	\$2.35
F1072536	3/8" O.D. x 36" Lav Riser	-	100	\$3.05
F1082512	3/8" O.D. x 12" Closet Riser	-	100	\$1.40
F1082520	3/8" O.D. x 20" Closet Riser	-	100	\$1.80
Q4440250	3/8" I.D. Delrin Ring, replacement part	-	50	\$0.10
Q4300250	Riser Washer, 100/bag	1	-	\$29.65

## Risers



ProPEX Copper Tub Ell provides a 90-degree transition from tub and shower valve to Wirsbo AQUAPEX tubing.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q2885050	ProPEX Copper Tub Ell, 1/2" PEX x 1/2" Copper (3" x 4")	25	100	\$9.30
Q2875050	ProPEX Copper Tub Ell, 1/2" PEX x 1/2" Copper (3" x 6")	25	100	\$9.80

## ProPEX Copper Tub Ell



ProPEX Copper Stub Ell provides a 90-degree transition from Wirsbo AQUAPEX tubing to copper.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q2863850	ProPEX Copper Stub Ell, 3/8" PEX x 1/2" Copper (3 1/2" x 8")	25	100	\$14.80
Q2865050	ProPEX Copper Stub Ell, 1/2" PEX x 1/2" Copper (3 1/2" x 8")	25	100	\$10.00
Q2895050	ProPEX Copper Stub Ell, 1/2" PEX x 1/2" Copper (8" x 13")	25	100	\$15.80
Q2855050	ProPEX Copper Stub Ell, 1/2" PEX X 1/2" Copper (13" x 8")	25	100	\$15.25
Q2897575	ProPEX Copper Stub Ell, 3/4" PEX x 3/4" Copper (4" x 8")	25	100	\$24.20

## ProPEX Copper Stub Ell



ProPEX Copper Straight Stub provides a straight transition from Wirsbo AQUAPEX tubing to copper.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
Q2935050	ProPEX Copper Straight Stub, 1/2" PEX x 1/2" Copper (8")	25	100	\$11.45
Q2945050	ProPEX Copper Straight Stub, 1/2" PEX x 1/2" Copper (15")	25	100	\$12.85

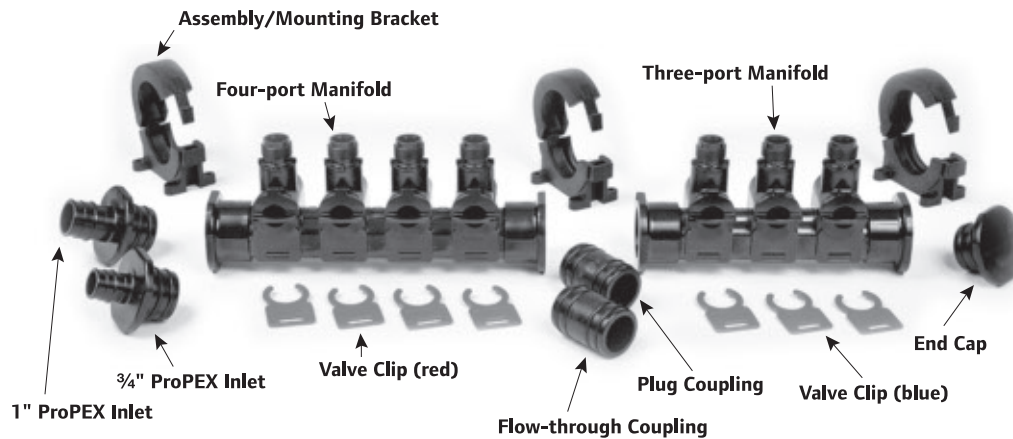
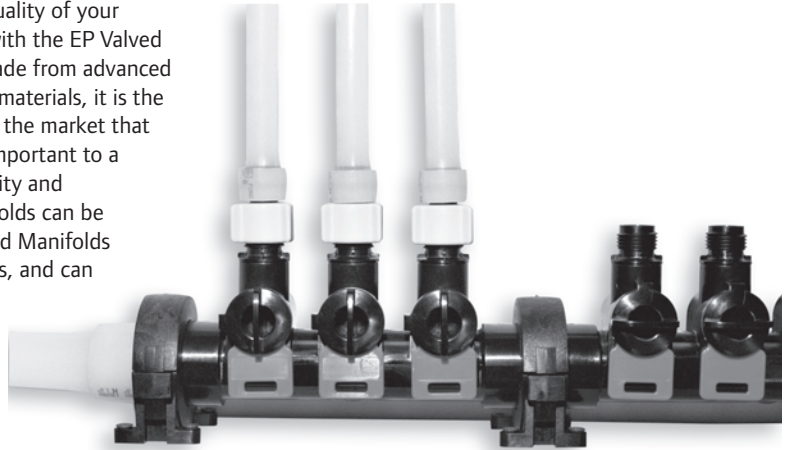
## ProPEX Copper Straight Stub



# Uponor Plumbing Systems

## Engineered Plastic (EP) Valved Manifolds

Improve the ease and quality of your plumbing installations with the EP Valved Manifold by Uponor. Made from advanced engineered plastic (EP) materials, it is the only valved manifold on the market that can offer what's really important to a plumber — total flexibility and serviceability. The manifolds can be joined to other EP Valved Manifolds using manifold couplings, and can be supplied with ¾" or 1" ProPEX inlets.



### EP Valved Manifold



Available with three or four NPSM or ProPEX outlets, the EP Valved Manifold is suitable for hot- and cold-water distribution systems. The kit includes manifold, red and blue valve clips, labels, valve-turning tool and installation instructions.

**Note:** Manifold inlets, couplings, end caps, swivel adapters and assembly/mounting brackets sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2100300	EP Valved Manifold Kit A, 3 outlets with ½" NPSM	1	-	\$76.35
Q2100400	EP Valved Manifold Kit B, 4 outlets with ½" NPSM	1	-	\$92.50
Q2110300	EP Valved Manifold Kit C, 3 outlets with ½" ProPEX	1	-	\$75.65
Q2110400	EP Valved Manifold Kit D, 4 outlets with ½" ProPEX	1	-	\$90.75

## EP Valved Manifold Accessories

ProPEX EP Valved Manifold Inlet connects 3/4" and 1" Wirsbo AQUAPEX tubing to the manifold. The EP Valved Manifold End Cap seals the unused inlet on the manifold.

**Note:** ProPEX Tool is required. ProPEX Rings and Assembly/Mounting Brackets are required and sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2120750	EP Valved Manifold 3/4" ProPEX Inlet	-	10	\$11.25
Q2121000	EP Valved Manifold 1" ProPEX Inlet	-	10	\$12.15
Q2121250	EP Valved Manifold End Cap	-	10	\$11.25

### EP Valved Manifold ProPEX Inlet



The EP Valved Manifold Coupling joins manifold sections.

**Note:** Assembly/Mounting Brackets are required and sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2121313	EP Valved Manifold Flow-through Coupling	-	10	\$13.20
Q2121251	EP Valved Manifold Stop Coupling	-	10	\$15.40

### EP Valved Manifold Coupling



The EP Valved Manifold Assembly/Mounting Bracket assembles manifold sections and mounts the manifold to the wall or stud. One bracket is required per manifold joint.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2120020	EP Valved Manifold Assembly/Mounting Bracket	-	10	\$7.05

### EP Valved Manifold Assembly/Mounting Bracket



Replacement EP Valved Manifold Accessories.

**Note:** Valve clips are required and sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2120050	EP Valved Manifold Valve Cylinder with O-rings	-	10	\$11.15
Q2120010	EP Valved Manifold Valve-turning Tool, replacement part	-	10	\$2.95
Q2120001	EP Valved Manifold Red Valve Clip	-	100	\$1.05
Q2120002	EP Valved Manifold Blue Valve Clip	-	100	\$1.05

### EP Valved Manifold Accessories



# Uponor Plumbing Systems

## EP Valveless Manifolds

### EP Valveless Manifold

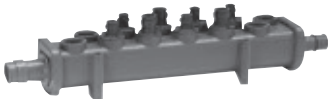


The EP Valveless Branch Manifold is available with 3/4" or 1" inlets and 4, 6 or 8, 1/2" ProPEX outlets. The manifold is made of engineered plastic (EP), the same durable material used in Uponor's EP fittings.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2200400	EP Valveless Branch Manifold, 4 outlets, 3/4" ProPEX	1	-	\$39.95
Q2200600	EP Valveless Branch Manifold, 6 outlets, 3/4" ProPEX	1	-	\$50.05
◀ Q2200800	EP Valveless Branch Manifold, 8 outlets, 3/4" ProPEX, replacement part is Q2287550 on page 123	1	-	\$61.95
◀ Q2201000	EP Valveless Branch Manifold, 10 outlets, 3/4" ProPEX, replacement part is Q2101051 or Q2101000 on page 123	1	-	\$67.10
◀ Q2201200	EP Valveless Branch Manifold, 12 outlets, 3/4" ProPEX, replacement part is Q2121051 on page 123	1	-	\$73.10
Q2210800	EP Valveless Branch Manifold, 8 outlets, 1" ProPEX	1	-	\$63.45
◀ Q2211000	EP Valveless Branch Manifold, 10 outlets, 1" ProPEX, replacement part is Q2101051 or Q2101000 on page 123	1	-	\$67.35
◀ Q2211200	EP Valveless Branch Manifold, 12 outlets, 1" ProPEX, replacement part is Q2121051 on page 123	1	-	\$73.35

### EP Flow-through Valveless Manifold



The EP Flow-through Valveless Manifold is available in 8, 10 or 12, 1/2" ProPEX outlets. The manifold comes with either 1" ProPEX inlets or 3/4" and 1" ProPEX inlets. All outlets are 1/2" ProPEX connections. The manifold is made of EP, the same durable material used in Uponor's EP fittings.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ Q2240400	EP Flow-through Valveless Manifold, 4 outlets, 1" x 3/4" ProPEX, replacement part is Q2241057 on page 121	1	-	\$42.60
◀ Q2240600	EP Flow-through Valveless Manifold, 6 outlets, 1" x 3/4" ProPEX, replacement part is Q2261057 on page 121	1	-	\$51.10
Q2240800	EP Flow-through Valveless Manifold, 8 outlets, 1" x 3/4" ProPEX	1	-	\$77.20
Q2241000	EP Flow-through Valveless Manifold, 10 outlets, 1" x 3/4" ProPEX	1	-	\$87.10
Q2241200	EP Flow-through Valveless Manifold, 12 outlets, 1" x 3/4" ProPEX	1	-	\$88.25
◀ Q2250400	EP Flow-through Valveless Manifold, 4 outlets, 1" x 1" ProPEX, replacement part is *Q2241057 on page 121 *(or Q2261051 & cap extra ports)	1	-	\$45.40
◀ Q2250600	EP Flow-through Valveless Manifold, 6 outlets, 1" x 1" ProPEX, replacement part is Q2261051 on page 121	1	-	\$57.15

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

## ProPEX Copper Manifolds

ProPEX 1" Copper Branch Manifold features 1/2" ProPEX outlets brazed to manifold trunk. Sweat manifolds together to create the desired number of outlets. Do not exceed acceptable flow rates for 1-inch nominal copper.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2801050	ProPEX 1" Copper Branch Manifold with 1/2" ProPEX outlets, 4 outlets	1	-	\$44.40
Q2811050	ProPEX 1" Copper Branch Manifold with 1/2" ProPEX outlets, 6 outlets	1	-	\$60.10
Q2821050	ProPEX 1" Copper Branch Manifold with 1/2" ProPEX outlets, 8 outlets	1	-	\$75.70
Q2831050	ProPEX 1" Copper Branch Manifold with 1/2" ProPEX outlets, 10 outlets	1	-	\$94.70
Q2841050	ProPEX 1" Copper Branch Manifold with 1/2" ProPEX outlets, 12 outlets	1	-	\$115.60

**ProPEX 1" (type L) Copper Branch Manifold**



ProPEX 1" Copper Branch Manifold features 1/2" ProPEX outlets brazed to manifold trunk and one 3/4" ProPEX fitting brazed to manifold inlet.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2905050	ProPEX 1" Copper Branch Manifold, 3 outlets, 3/4" ProPEX Inlet, replacement part is Q2237550 on page 121	1	-	\$50.10
Q2807550	ProPEX 1" Copper Branch Manifold, 4 outlets, 3/4" ProPEX Inlet	1	-	\$54.70
Q2817550	ProPEX 1" Copper Branch Manifold, 6 outlets, 3/4" ProPEX Inlet	1	-	\$84.10
Q2827550	ProPEX 1" Copper Branch Manifold, 8 outlets, 3/4" ProPEX Inlet	1	-	\$105.45
Q2837550	ProPEX 1" Copper Branch Manifold, 10 outlets, 3/4" ProPEX Inlet	1	-	\$114.45
Q2847550	ProPEX 1" Copper Branch Manifold, 12 outlets, 3/4" ProPEX Inlet	1	-	\$118.10

**ProPEX 1" (type L) Copper Branch Manifold with 3/4" ProPEX Inlet**



ProPEX 1" Copper Flow-through Manifold features 1/2" ProPEX outlets brazed to manifold trunk and two 3/4" ProPEX fittings brazed to manifold ends.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2807557	ProPEX 1" Copper Flow-through Manifold, 4 outlets, 3/4" x 3/4" ProPEX, replacement part is Q2247557 on page 121	1	-	\$62.80
Q2817557	ProPEX 1" Copper Flow-through Manifold, 6 outlets, 3/4" x 3/4" ProPEX, replacement part is Q2267557 on page 121	1	-	\$84.10
Q2827557	ProPEX 1" Copper Flow-through Manifold, 8 outlets, 3/4" x 3/4" ProPEX	1	-	\$111.10
Q2837557	ProPEX 1" Copper Flow-through Manifold, 10 outlets, 3/4" x 3/4" ProPEX	1	-	\$137.25
Q2847557	ProPEX 1" Copper Flow-through Manifold, 12 outlets, 3/4" x 3/4" ProPEX	1	-	\$145.20

**ProPEX 1" (type L) Copper Flow-through Manifold**



◀ Discontinued item; available while quantities last. Please contact Uponor customer service for availability. All sales are final.



# Uponor Plumbing Systems

## ProPEX 1" (type L) Copper Valved Manifold



ProPEX 1" Copper Valved Manifold features 1/2" ProPEX valve connections allowing for simple and easy isolation of individual loops. Sections can sweat together to extend the number of outlets using a standard 1" copper coupling. Both 1" ends are copper pipe size and require a copper end cap, coupling or transition fitting to make the proper system connection. Do not exceed accepted flow rates for 1-inch nominal copper.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2500400	1" Copper Manifold with 1/2" ProPEX Ball Valve, 4 outlets	1	-	\$129.45
Q2500600	1" Copper Manifold with 1/2" ProPEX Ball Valve, 6 outlets	1	-	\$184.90
Q2500800	1" Copper Manifold with 1/2" ProPEX Ball Valve, 8 outlets	1	-	\$241.70
Q2501000	1" Copper Manifold with 1/2" ProPEX Ball Valve, 10 outlets	1	-	\$296.45
Q2501200	1" Copper Manifold with 1/2" ProPEX Ball Valve, 12 outlets	1	-	\$349.30

## ProPEX 1" (type L) Copper Manifold



The ProPEX 1" Copper Manifold is 6 feet in length and features 24 individual 1/2" ProPEX outlets spaced three inches on center. The manifold is suitable for cutting to any length necessary to achieve the desired number of outlets.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2512450	1" x 6' Copper Manifold with 1/2" ProPEX, 24 outlets	1	-	\$340.20

## Type L Copper Valveless Manifold



Copper Valveless Manifold with 1/2" or 3/4" nominal branches available in various outlet configurations. The manifolds can join together to create the desired number of outlets. Branches are brazed to manifold trunk. Use Uponor QS-style or ProPEX 1/2" or 3/4" Brass Sweat Adapters to make connections to 3/8", 1/2", 5/8" and 3/4" Wirsbo AQUAPEX tubing. All manifolds require a 1-inch copper end cap and applicable transition fitting.

**Note:** Maximum recommended flow rates for these manifolds are: 2-inch, 45 gpm; 1 1/2-inch, 21 gpm; 1-inch, 9 gpm.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F2802075	2" x 6' Copper Valveless Manifold with 24 outlets, 3/4" sweat	-	2	\$581.90
F2801575	1 1/2" x 6' Copper Valveless Manifold with 24 outlets, 3/4" sweat	-	3	\$402.75
F2741050	1" Copper Valveless Manifold, 2 outlets, 1/2" sweat, 1 1/2" on center	1	-	\$40.25
F2751050	1" Copper Valveless Manifold, 3 outlets, 1/2" sweat, 1 1/2" on center	1	-	\$41.35
F2761050	1" Copper Valveless Manifold, 4 outlets, 1/2" sweat, 1 1/2" on center	1	-	\$44.75
F2741075	1" Copper Valveless Manifold, 2 outlets, 3/4" sweat, 1 1/2" on center	1	-	\$44.55
F2751075	1" Copper Valveless Manifold, 3 outlets, 3/4" sweat, 1 1/2" on center	1	-	\$45.20

# Uponor Plumbing Systems

The D'MAND® Hot Water Delivery System is an integral part of the Uponor plumbing layout, which is designed to maximize energy and water savings, minimize connections, and reduce hot water delivery times. The D'MAND hot water delivery system provides two different system pumps: Model 100 and Model 200. The Model 100 supports plumbing systems with the farthest fixture less than 100 feet from the pump location. The Model 200 supports plumbing systems with the farthest fixture more than 100 feet from the pump location. The D'MAND system requires either an Activation Button or Motion Sensor to activate the system.

## D'MAND® Hot Water Delivery System



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6700070	D'MAND Model 100	1	-	\$580.00
Q6700002	D'MAND Model 200	1	-	\$954.45

The D'MAND Activation Button is used in areas where the homeowner wants to select when the D'MAND Hot Water Delivery System is activated. Two-wire, low-voltage thermostat wire connects the activation button to the control on the D'MAND pump.

## D'MAND Activation Button



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6700101	D'MAND Activation Button	1	-	\$9.60

The D'MAND Motion Sensor is used in low-traffic areas within the home such as a guest bathroom. Three-wire, low-voltage thermostat wire connects the motion sensor to the control on the D'MAND pump.

## D'MAND Motion Sensor



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6700102	D'MAND Motion Sensor, hard-wired	1	-	\$124.80

# Uponor Plumbing Systems

## ProPEX Accessories

### ProPEX Water Heater Adapter



ProPEX Water Heater Adapter (stainless steel) connects 3/4" PEX to water heater.

**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q2957575	ProPEX Water Heater Adapter, 3/4" PEX x 3/4" FIP x 18"	-	20	\$21.00

### ProPEX Washing Machine Outlet Box



ProPEX Washing Machine Outlet Box comes with two 1/2" ProPEX hot and cold color-coded valves. The versatility of the box allows the installer the freedom to mount the box with the valves either on the top or bottom. The four support brackets make mounting the box quick and easy. The included snap-on cover plate accommodates up to 1-inch drywall.

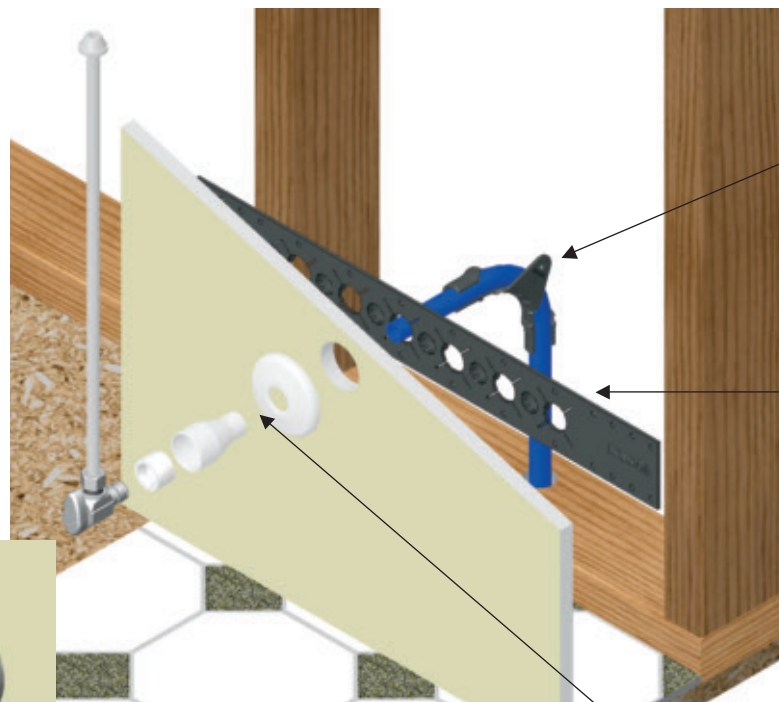
**Note:** ProPEX Tool is required. ProPEX Rings sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> Q5930500	ProPEX Washing Machine Outlet Box, 1/2" ProPEX Valves	-	12	\$49.95

## ProPEX Out-of-the-Wall Support System

The logical way to exit the wall with PEX

A complete, easily installed system that makes exiting the wall with ProPEX easier than ever. The plastic bend support snaps into the mating wall support bracket providing rigid support from any angle. The escutcheon allows a ProPEX connection to be made inside the sleeve and fully concealed.



Modified 1/2" Plastic Bend Support that easily snaps into the wall support bracket from any angle (A5250500)

PEX Wall Support Bracket provides a secure support for 1/2" or 3/4" PEX (A5750500)

Plastic Escutcheon w/mating sleeve used to conceal the ProPEX connection (Available in attractive white - F5670500 or chrome plated - F5650500 options)

Provides a clean, finished look (chrome option shown here)

# Uponor Plumbing Systems

ProPEX Ice Maker Box with Support Brackets comes with one 1/2" ProPEX valve. The valve has a 1/4" O.D. compression connection for connecting to standard ice maker tubing. The two support brackets make mounting the box quick and easy.

**Note:** The cover plate for this ice maker box is sold separately. ProPEX Tool is required. ProPEX Rings sold separately.

## ProPEX Ice Maker Box with Support Brackets



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> Q5955025	ProPEX Ice Maker Box with Support Brackets, 1/2" ProPEX Valve	-	6	\$29.50

ProPEX In-line Ice Maker Tee, 1/2" PEX x 1/2" PEX; valve features 1/8" NPT x 1/4" O.D. compression.

**Note:** ProPEX tool is required. ProPEX Rings sold separately.

## ProPEX In-line Ice Maker Tee



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q4455050	ProPEX In-line Ice Maker Tee, 1/2" PEX x 1/2" PEX x 1/4" O.D. compression	-	10	\$39.80

ProPEX Escutcheon with flaired sleeve provides an attractive cover for 1/2" Wirsbo AQUAPEX tubing and ProPEX connections as they exit the wall. Available in white or chrome-plated.

## ProPEX Escutcheon



Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
<b>NEW</b> F5650500	ProPEX Escutcheon for 1/2" PEX (1 1/16" O.D.), chrome-plated	25	100	\$9.40
<b>NEW</b> F5670500	ProPEX Escutcheon for 1/2" PEX (1 1/16" O.D.), white	25	100	\$2.60

Chrome Finishing Sleeve slides over 1/2" Wirsbo AQUAPEX tubing connected to point-of-use valve to provide protection and improve appearance.

## Chrome Finishing Sleeve



Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
F5600500	Chrome Finishing Sleeve for 1/2" PEX (1 1/16" O.D.)	25	100	\$4.50

## ProPEX Tools and Accessories

### ProPEX 200 Battery Expander Tool Kit and Accessories



The ProPEX 200 Battery Expander Tool is an electro-hydraulic tool with microprocessor-based intelligence that makes fast, easy connections to 3/8" through 2" Wirsbo AQUAPEX tubing. The tool kit includes a 1 1/2" pistol for making connections to 3/8" through 1 1/2" tubing, a 2" pistol with a 2" H-series Expander Head for making connections to 2" tubing.

The tool uses both H-series ProPEX Expander Heads as well as the regular ProPEX Expander Heads.

**Note:** ProPEX Expander Heads for 3/8" through 1 1/2" tubing sold separately.


Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6262000	ProPEX 200 Battery Expander Tool Kit (Includes 2" Pistol, 1 1/2" Pistol, 2" H-series Expander Head, 10-foot Hydraulic Hose, Hydraulic Pump, battery charger, two batteries, expander head lubricant, operation manual and roller case)	1	-	\$9,273.80
Q6260200	ProPEX 200 Battery, replacement part	1	-	\$488.50
Q6260700	ProPEX 200 Battery Charger, replacement part	1	-	\$417.30
Q6260002	ProPEX 200 Roller Case, replacement part	1	-	\$670.00

### ProPEX 150 Battery Expander Tool Kit and Accessories



The electro-mechanical, ProPEX 150 Battery Expander Tool expands 3/8", 1/2", 5/8", 3/4", 1", 1 1/4" and 1 1/2" Wirsbo AQUAPEX tubing using the ProPEX connection method. This ProPEX Battery Expander Tool uses the H-series ProPEX Expander Heads up to 1 1/2" as well as the standard ProPEX Expander Heads. The standard kit includes the Battery Expander Tool, two batteries, one battery charger, lubricant for expander heads and a heavy-duty carrying case. The Deluxe kit includes all the components of the standard kit plus the ProPEX Auto-Rotation Adapter, 1/2", 3/4" and 1" regular ProPEX Expander Heads.

**Note:** ProPEX Expander Heads sold separately.


Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6261500	ProPEX 150 Battery Expander Tool Kit	1	-	\$1,528.55
 Q6261550	ProPEX 150 Deluxe Battery Expander Tool Kit	1	-	\$2,128.30
Q6260100	ProPEX 150 Battery, replacement part	1	-	\$218.75
Q6260600	ProPEX 150 Battery Charger, replacement part	1	-	\$135.85

### ProPEX Auto Rotation Adapter



Designed to use with all standard expander tools and standard expander heads (3/8" to 1"), the ProPEX Auto Rotation Adapter eliminates the need to rotate the tubing when making ProPEX connections.

**Note:** The ProPEX Auto Rotation Adapter is not compatible with the ProPEX 200 Battery Expander Tool or H-series Expander Heads.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
 Q6323810	ProPEX Auto Rotation Adapter	1	-	\$304.20

# Uponor Plumbing Systems

ProPEX Air (pneumatic) Expander Tool expands 3/8", 1/2, 3/4" and 1" Wirsbo AQUAPEX tubing using the ProPEX connection method. Kit includes 1/2" head, lubricant, carrying case and 4 oz. bottle of pneumatic oil.

**Note:** 3/8", 3/4" and 1" Expander Heads sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6301000	ProPEX Air Expander Tool Kit	1	-	\$1,134.50
Q6301010	ProPEX Air Expander Oil, 4 oz. bottle, replacement part	1	-	\$3.05

## ProPEX Air Expander Tool Kit



The ProPEX Hand (Manual) Expander Tool Kit includes 1/2", 3/4" and 1" heads, tool lubricant and a sturdy carrying case.

**Note:** The 3/8" Expander Head is sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6295075	ProPEX Hand Expander Tool Kit	1	-	\$597.10

## ProPEX Hand Expander Tool Kit



The ProPEX Hand (Manual) Expander Tool features rugged, tool-hardened heads and an ergonomic handle design for use on 3/8" to 1" ProPEX connections.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6275075	ProPEX Hand Expander Tool (only with case)	1	-	\$256.75

## ProPEX Hand Expander Tool



# Uponor Plumbing Systems

## ProPEX Expander Head



Standard ProPEX Expander Heads are used on all ProPEX Expander Tools.

**Note:** The ProPEX Expander Heads are not compatible with the APR Blunt Expander Tool.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6310375	3/8" ProPEX Expander Head	1	-	\$131.40
Q6310500	1/2" ProPEX Expander Head	1	-	\$119.50
Q6310750	3/4" ProPEX Expander Head	1	-	\$119.50
Q6311000	1" ProPEX Expander Head	1	-	\$119.50

## H-series ProPEX Expander Head



The H-series ProPEX Expander Heads are used only with the ProPEX 150 Battery Expander Tool (Q6261500) and ProPEX 200 Battery Expander Tool (Q6262000).

H-series ProPEX expander heads require less number of expansions than the regular ProPEX expander heads. Heads are identified with an "H" stamp on head.

**Note:** The H-series ProPEX Expander Heads are not compatible with the ProPEX Hand Expander, ProPEX Air Expander, APR Blunt Expander Tools or the Auto Rotation Adapter.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q6380750	3/4" H-series ProPEX Expander Head	1	-	\$143.30
Q6381000	1" H-series ProPEX Expander Head	1	-	\$143.30
Q6381250	1 1/4" H-series ProPEX Expander Head	1	-	\$149.30
Q6381500	1 1/2" H-series ProPEX Expander Head	1	-	\$155.25
Q6282000	2" H-series ProPEX Expander Head	1	-	\$503.40

## Graphite Grease



Graphite Grease lubricates ProPEX Expander Tool cones.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
Q5590028	Graphite Grease for ProPEX Tools, spare part	1	-	\$37.30

## Tubing Supports

Plastic Bend Support (glass-reinforced nylon) provides rigid 90-degree bend and sleeve for  $\frac{3}{8}$ ",  $\frac{1}{2}$ " and  $\frac{3}{4}$ " Wirsbo AQUAPEX tubing.

**Note:** A5250500 also works in conjunction with A5750500 – PEX Wall Support Bracket on page 151.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5150375	$\frac{3}{8}$ " Plastic Bend Support	-	25	\$1.40
<b>NEW</b> A5250500	$\frac{1}{2}$ " Plastic Bend Support	-	25	\$1.40
A5150750	$\frac{3}{4}$ " Plastic Bend Support	-	50	\$3.00

### Plastic Bend Support



Metal Bend Support (zinc-plated) provides rigid 90-degree bend for  $\frac{3}{8}$ ",  $\frac{1}{2}$ " and  $\frac{3}{4}$ " Wirsbo AQUAPEX tubing.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5110375	$\frac{3}{8}$ " Metal Bend Support	-	50	\$2.95
A5110500	$\frac{1}{2}$ " Metal Bend Support	-	50	\$4.10
A5110750	$\frac{3}{4}$ " Metal Bend Support	-	25	\$5.30

### Metal Bend Support



PVC Bend Support provides rigid 90-degree bend and sleeve for  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{3}{4}$ " and 1" Wirsbo AQUAPEX tubing runs exiting a concrete slab.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5500500	$\frac{3}{4}$ " PVC Elbow for $\frac{3}{8}$ " and $\frac{1}{2}$ " PEX Bend Support	-	25	\$2.05
A5500750	1 $\frac{1}{4}$ " PVC Elbow for $\frac{3}{4}$ " PEX Bend Support	-	20	\$6.05
A5501000	1 $\frac{1}{2}$ " PVC Elbow for 1" PEX Bend Support	-	25	\$6.65

### PVC Bend Support





# Uponor Plumbing Systems

## Plastic Drop Ear Bend Support



Plastic Drop Ear Bend Support (glass-reinforced nylon) provides rigid 90-degree bend and connection-free stub out from a stud wall or floor for 3/8" or 1/2" Wirsbo AQUAPEX tubing.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
F5200375	3/8" Plastic Drop Ear Bend Support	25	250	\$2.75
F5200500	1/2" Plastic Drop Ear Bend Support	25	250	\$2.75

## Metal Drop Ear Bend Support



Metal Drop Ear Bend Support (zinc-plated) provides rigid 90-degree bend and connection-free stub out from a stud wall or floor for 3/8" or 1/2" Wirsbo AQUAPEX tubing.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F5120375	3/8" Metal Drop Ear Bend Support	-	25	\$6.90
F5120500	1/2" Metal Drop Ear Bend Support	-	25	\$7.20

## Straight-through Support



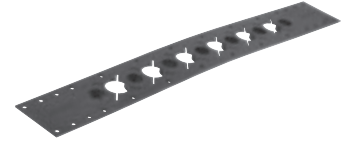
Straight-through Support (zinc-plated) provides rigid straight-through support for 1/2" Wirsbo AQUAPEX tubing as it exits a floor.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F5140500	1/2" Metal Straight-through Support	-	25	\$9.55

# Uponor Plumbing Systems

Plastic Wall Support bracket provides rigid straight-through support for 1/2" or 3/4" Wirsbo AQUAPEX tubing, fixed 2" on-center spacing, and allows the 1/2" plastic bend support (A5250500 on page 149) to snap into place for 1/2" Wirsbo AQUAPEX tubing as it exits a wall.

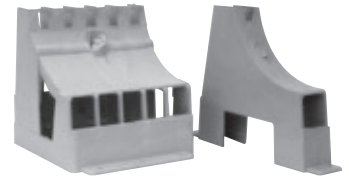
## PEX Wall Support Bracket



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
<b>NEW</b> A5750500	PEX Wall Support Bracket, 1/2" and 3/4"	-	25	\$5.15

PEX Stand-up Bracket is be used in residential slab or commercial multi-floor construction. Secure the brackets to the deck form. Then install the 1/2" PEX tubing in the brackets, either with the 1/2" PEX tubing alone or with the 1/2" PEX tubing sleeved inside corrugated polyethylene carrier tube. The brackets are available in either single- or five-tube configurations.

## PEX Stand-up Bracket



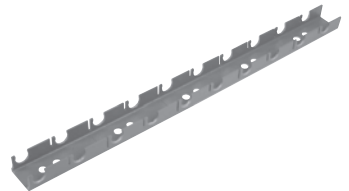
Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F5801000	Single-tube PEX Stand-up Bracket for 1/2" PEX	-	25	\$8.60
F5805000	Five-tube PEX Stand-up Bracket for 1/2" PEX	-	25	\$19.75

## Tube Fasteners and Protectors

Plastic PEX Rail secures Wirsbo AQUAPEX tubing products to metal and wood-support structures.

## PEX Rail

**Note:** Suitable fastening hardware is required (not included).



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
A5700500	1/2" PEX Rail, 6.5 ft.	1	16	\$8.90
A5700750	3/4" PEX Rail, 6.5 ft.	1	16	\$15.75

The PEX Clip provides excellent holding power and can attach together laterally for tight installations.

## PEX Clip



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F7060375	3/8" PEX Clip, 100/box	1	-	\$81.75
F7051258	1/2" PEX Clip, 100/box	1	-	\$81.75

# Uponor Plumbing Systems

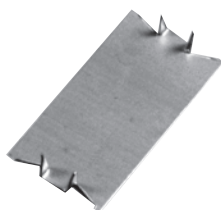
## Tube Talon



Tube Talon secures 3/8", 1/2", 5/8", 3/4" and 1" Wirsbo AQUAPEX tubing products. Fasteners are included.

Part No.	Part Description	Each Qty.	Case Qty.	List Price/Ea.
F7050375	Tube Talon (3/8" PEX), 100/bag	1	10	\$24.85
F7050750	Tube Talon (1/2", 5/8", 3/4" PEX), 100/bag	1	10	\$21.70
F7051000	Tube Talon (1" PEX), 50/bag	1	10	\$26.90

## Steel Plate Protector



Steel Plate Protector protects tubing from possible damage by drywall, trim screws or nails, etc.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
F5700002	Steel Plate Protector, 100/box	1	-	\$29.50

## Tube Handling

### Select Uncoiler

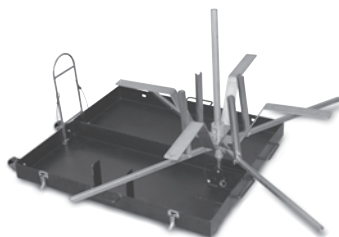


The Select Uncoiler facilitates the uncoiling of 5/16" to 1" Wirsbo AQUAPEX or up to 5/8" multi-layer composite (MLC) tubing, which simplifies installation and reduces labor. The robust construction features an adjustable reel to allow for either horizontal or vertical position uncoiling. The durable wheels make for easy portability, and the uncoiler is equipped with a tubing-feed eyelet.

**Note:** Due to large coil inside diameters, the Select Uncoiler cannot support 1,000-foot coils of 5/8" and larger MLC tubing.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6062000	Select Uncoiler	1	-	\$1,470.10

### Compact Select Uncoiler



The Compact Select Uncoiler facilitates the uncoiling of 5/16" to 1" Wirsbo AQUAPEX or MLC tubing. The entire 65-pound unit conveniently collapses into its own heavy-duty, compact carrying case, allowing for quick and efficient transport of the uncoiler as well as easy storage when not in use.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6063000	Compact Select Uncoiler	1	-	\$941.25

# Uponor Plumbing Systems

The Tube Uncoiler facilitates the uncoiling of 5/16" to 1" Wirsbo AQUAPEX tubing, which simplifies installation and reduces labor. Weighted arms hold tubing in place while uncoiling. Eyelet keeps tubing from tangling. Base is collapsible. No additional hardware necessary for attaching arms. Easy to assemble.

**Note:** Upon assembly, install the guide pin on the swivel arm in order to keep the arm in place.

## Tube Uncoiler



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6061000	Tube Uncoiler	1	-	\$418.35

Metal Tube Cutter cuts up to 1" PEX tubing. Plastic Tube Cutter cuts up to 1" PEX or 3/4" MLC tubing.

## Tube Cutter



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6081125	Tube Cutter (metal) for up to 1" PEX	1	-	\$32.90
E6081140	Tube Cutter Replacement Blade for E6081125, spare part	1	-	\$12.00
E6081128	Tube Cutter (plastic) for up to 1" PEX (3/4" MLC Tubing)	1	-	\$26.45
E6081143	Tube Cutter Replacement Blade for E6081128, spare part	1	-	\$19.15

Ratchet-style Tube Cutter cuts up to 2" PEX and 1" MLC. Ratchet-style Large Dimensional Tube Cutter cuts 1" to 2" PEX and 1" MLC.

## Ratchet-style Tube Cutter



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
E6081500	Ratchet-style Tube Cutter for up to 1" PEX and MLC Tubing	1	-	\$32.85
E6081544	Tube Cutter Replacement Blade for E6081500, replacement part	1	-	\$14.95
E6082000	Ratchet-style Large Dimension Tube Cutter for 1" to 2" PEX and 1" MLC Tubing	1	-	\$235.95

# Uponor Plumbing Systems

## APR Copper Manifolds

### APR 1" (type L) Copper Branch Manifold



APR 1" Copper Branch Manifold features 1/2" APR outlets. By cutting the spun end of the manifold off, sections can sweat together to extend the number of outlets. Do not exceed acceptable flow rates for 1-inch nominal copper. Each manifold end requires a 1-inch transition fitting to complete the manifold assembly.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K2801050	APR 1" Copper Branch Manifold with 1/2" APR outlets, 4 outlets	1	-	\$53.65
◀ K2811050	APR 1" Copper Branch Manifold with 1/2" APR outlets, 6 outlets	1	-	\$69.65
◀ K2821050	APR 1" Copper Branch Manifold with 1/2" APR outlets, 8 outlets	1	-	\$85.65
◀ K2831050	APR 1" Copper Branch Manifold with 1/2" APR outlets, 10 outlets	1	-	\$102.95
◀ K2841050	APR 1" Copper Branch Manifold with 1/2" APR outlets, 12 outlets	1	-	\$125.40

### APR 1" (type L) Copper Flow-through Manifold



APR 1" Copper Flow-through Manifold features 1/2" APR outlets brazed to the manifold body. Two 3/4" APR adapter fittings are brazed to the manifold ends for quick connection to 3/4" Wirsbo AQUAPEX tubing.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K2927557	APR 1" Copper Flow-through Manifold, 2 outlets, 3/4" x 3/4" APR	1	-	\$42.10
◀ K2907557	APR 1" Copper Flow-through Manifold, 3 outlets, 3/4" x 3/4" APR	1	-	\$51.85
◀ K2807557	APR 1" Copper Flow-through Manifold, 4 outlets, 3/4" x 3/4" APR	1	-	\$57.85
◀ K2957557	APR 1" Copper Flow-through Manifold, 5 outlets, 3/4" x 3/4" APR	1	-	\$72.30
◀ K2817557	APR 1" Copper Flow-through Manifold, 6 outlets, 3/4" x 3/4" APR	1	-	\$80.25
◀ K2827557	APR 1" Copper Flow-through Manifold, 8 outlets, 3/4" x 3/4" APR	1	-	\$89.30

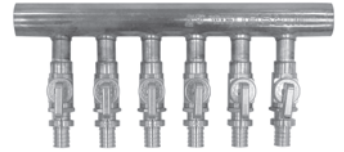
◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Plumbing Systems

APR 1" Copper Valved Manifold features ½" APR valved outlets allowing for simple and easy isolation of individual outlets. Sections can sweat together to extend the number of outlets using a standard 1-inch copper coupling. Do not exceed acceptable flow rates for 1-inch nominal copper. Each manifold end requires an end cap or transition fitting to complete the manifold assembly.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

## APR 1" (type L) Copper Valved Manifold

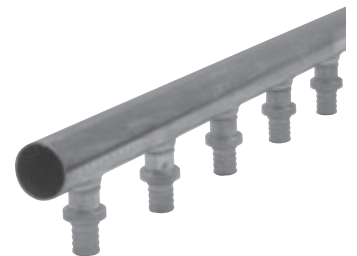


Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
K2500400	APR 1" Copper Valved Manifold with ½" APR Ball Valves, 4 outlets	1	-	\$106.40
K2500600	APR 1" Copper Valved Manifold with ½" APR Ball Valves, 6 outlets	1	-	\$149.75
K2500800	APR 1" Copper Valved Manifold with ½" APR Ball Valves, 8 outlets	1	-	\$201.50
K2501000	APR 1" Copper Valved Manifold with ½" APR Ball Valves, 10 outlets	1	-	\$259.45
K2501200	APR 1" Copper Valved Manifold with ½" APR Ball Valves, 12 outlets	1	-	\$302.75

The APR 1" Copper Manifold is 6 feet in length and features APR outlets for connecting PEX tubing. The manifold features 24 outlets, which are ½" in diameter and spaced three inches on center. The manifold is suitable for cutting to any length necessary to achieve the desired number of outlets.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

## APR 1" (type L) Copper Manifold



Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
K2512450	APR 1" x 6' Copper Manifold with ½" APR Outlets, 24 outlets	1	-	\$223.95

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Plumbing Systems

## APR Fittings

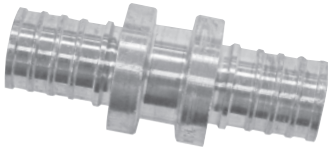
### APR Brass Sleeve



APR Brass Sleeve slides over the end of the expanded Wirsbo AQUAPEX tubing and APR fitting to form the completed fitting. The APR Ratchet Tool is used to slide the sleeve over the tubing and fitting.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4680500	APR Brass Sleeve, 1/2"	50	250	\$0.80
◀ K4680750	APR Brass Sleeve, 3/4"	50	250	\$1.30
◀ K4681000	APR Brass Sleeve, 1"	10	100	\$2.15
◀ K4681250	APR DZR Brass Sleeve, 1 1/4"	10	100	\$5.65

### APR Brass Coupling



APR Brass Couplings make PEX-to-PEX connections for Wirsbo AQUAPEX tubing.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4545050	APR Brass Coupling, 1/2" PEX x 1/2" PEX	25	100	\$2.70
◀ K4545075	APR Brass Coupling, 1/2" PEX x 3/4" PEX	25	100	\$8.15
◀ K4547575	APR Brass Coupling, 3/4" PEX x 3/4" PEX	25	100	\$5.55
◀ K4547510	APR Brass Coupling, 3/4" PEX x 1" PEX	10	100	\$9.40
◀ K4541010	APR Brass Coupling, 1" PEX x 1" PEX	10	100	\$10.25

### APR DZR Brass Coupling



APR DZR Brass Coupling makes a PEX-to-PEX connection for Wirsbo AQUAPEX tubing. DZR Brass Fittings are safe for direct burial in soil.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K4541313	APR DZR Brass Coupling, 1 1/4" PEX x 1 1/4" PEX	-	10	\$22.70

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Plumbing Systems

APR Brass Elbows make 90-degree PEX-to-PEX connections for Wirsbo AQUAPEX tubing.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4710500	APR Brass Elbow, 1/2" PEX x 1/2" PEX	25	100	\$4.45
◀ K4710750	APR Brass Elbow, 3/4" PEX x 3/4" PEX	25	100	\$6.70
◀ K4711000	APR Brass Elbow, 1" PEX x 1" PEX	10	100	\$11.00

## APR Brass Elbow



The APR Drop Ear Brass Elbow provides rigid 90-degree connection and the ability to secure Wirsbo AQUAPEX tubing.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4235050	APR Drop Ear Brass Elbow, 1/2" PEX x 1/2" FIP	25	100	\$8.40

## APR Drop Ear Brass Elbow



APR Brass Tee makes diverting connections for Wirsbo AQUAPEX tubing in supply and return mains. Branch size is listed last in the part description.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4705050	APR Brass Tee, 1/2" PEX x 1/2" PEX x 1/2" PEX	25	100	\$5.00
◀ K4707575	APR Brass Tee, 3/4" PEX x 3/4" PEX x 3/4" PEX	25	100	\$8.45
◀ K4701010	APR Brass Tee, 1" PEX x 1" PEX x 1" PEX	10	100	\$15.20

## APR Brass Tee

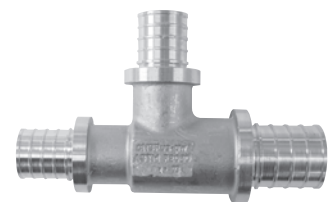


Branch size is listed last in the part description.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4705575	APR Brass Reducing Tee, 1/2" PEX x 1/2" PEX x 3/4" PEX	25	100	\$7.95
◀ K4707555	APR Brass Reducing Tee, 3/4" PEX x 1/2" PEX x 1/2" PEX	25	100	\$8.20
◀ K4707557	APR Brass Reducing Tee, 3/4" PEX x 1/2" PEX x 3/4" PEX	25	100	\$8.15
◀ K4707550	APR Brass Reducing Tee, 3/4" PEX x 3/4" PEX x 1/2" PEX	25	100	\$8.35
◀ K4707710	APR Brass Reducing Tee, 3/4" PEX x 3/4" PEX x 1" PEX	10	100	\$13.95
◀ K4701775	APR Brass Reducing Tee, 1" PEX x 3/4" PEX x 3/4" PEX	10	100	\$13.95
◀ K4701751	APR Brass Reducing Tee, 1" PEX x 3/4" PEX x 1" PEX	10	100	\$13.95
◀ K4701150	APR Brass Reducing Tee, 1" PEX x 1" PEX x 1/2" PEX	10	100	\$13.90
◀ K4701175	APR Brass Reducing Tee, 1" PEX x 1" PEX x 3/4" PEX	10	100	\$13.90

## APR Brass Reducing Tee

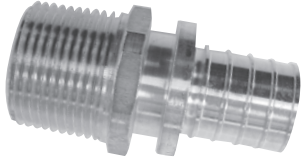


◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.



# Uponor Plumbing Systems

## APR Brass Male Threaded Adapter

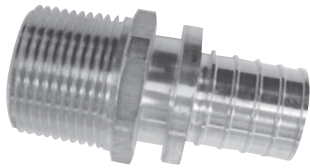


APR Brass Male Threaded Adapter transitions Wirsbo AQUAPEX tubing to male NPT threads.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4525050	APR Brass Male Threaded Adapter, 1/2" PEX x 1/2" NPT	25	100	\$3.55
◀ K4525075	APR Brass Male Threaded Adapter, 1/2" PEX x 3/4" NPT	25	100	\$5.80
◀ K4527575	APR Brass Male Threaded Adapter, 3/4" PEX x 3/4" NPT	25	100	\$6.65
◀ K4527510	APR Brass Male Threaded Adapter, 3/4" PEX x 1" NPT	10	100	\$8.40
◀ K4521010	APR Brass Male Threaded Adapter, 1" PEX x 1" NPT	10	100	\$9.30

## APR DZR Brass Male Threaded Adapter

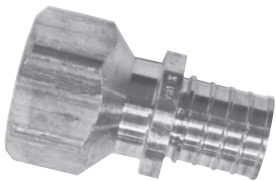


APR DZR Brass Male Threaded Adapter transitions Wirsbo AQUAPEX tubing to male NPT threads. DZR Brass Fittings are safe for direct burial in soil.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K4521313	APR DZR Brass Male Threaded Adapter, 1 1/4" PEX x 1 1/4" NPT	-	10	\$20.95

## APR Brass Female Threaded Adapter



APR Brass Female Threaded Adapter transitions Wirsbo AQUAPEX tubing to female NPT threads.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4575050	APR Brass Female Threaded Adapter, 1/2" PEX x 1/2" NPT	25	100	\$5.80
◀ K4575075	APR Brass Female Threaded Adapter, 1/2" PEX x 3/4" NPT	25	100	\$6.50
◀ K4577575	APR Brass Female Threaded Adapter, 3/4" PEX x 3/4" NPT	25	100	\$6.95
◀ K4577510	APR Brass Female Threaded Adapter, 3/4" PEX x 1" NPT	10	100	\$15.25
◀ K4571010	APR Brass Female Threaded Adapter, 1" PEX x 1" NPT	10	100	\$13.95

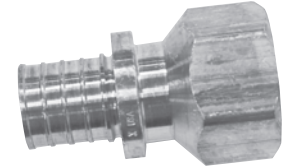
◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Plumbing Systems

APR DZR Brass Female Threaded Adapter transitions Wirsbo AQUAPEX tubing to female NPT thread. DZR Brass Fittings are safe for direct burial in soil.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool required. APR Brass Sleeves sold separately.

## APR DZR Brass Female Threaded Adapter

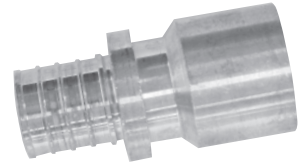


Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K4571313	APR DZR Brass Female Threaded Adapter, 1¼" PEX x 1¼" NPT	-	10	\$34.30

APR Brass Sweat Adapter transitions Wirsbo AQUAPEX tubing to copper pipe.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

## APR Brass Sweat Adapter

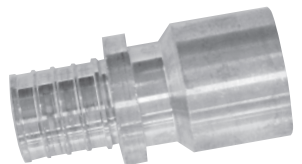


Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4515050	APR Brass Sweat Adapter, ½" PEX x ½" Copper	25	100	\$2.40
◀ K4515075	APR Brass Sweat Adapter, ½" PEX x ¾" Copper	25	100	\$4.00
◀ K4517550	APR Brass Sweat Adapter, ¾" PEX x ½" Copper	25	100	\$4.00
◀ K4517575	APR Brass Sweat Adapter, ¾" PEX x ¾" Copper	25	100	\$5.10
◀ K4517510	APR Brass Sweat Adapter, ¾" PEX x 1" Copper	10	100	\$7.30
◀ K4511010	APR Brass Sweat Adapter, 1" PEX x 1" Copper	10	100	\$8.90

APR DZR Brass Sweat Adapter transitions Wirsbo AQUAPEX tubing to copper pipe. DZR Brass Fittings are safe for direct burial in soil.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

## APR DZR Brass Sweat Adapter

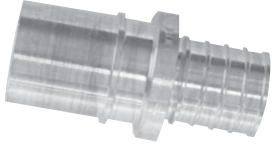


Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K4511313	APR DZR Brass Sweat Adapter, 1¼" PEX x 1¼" Copper	-	10	\$16.80

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Plumbing Systems

## APR Brass Fitting Adapter

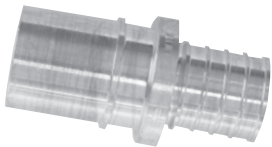


APR Brass Fitting Adapter transitions Wirsbo AQUAPEX tubing to copper fitting connections.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4505050	APR Brass Fitting Adapter, 1/2" PEX x 1/2" Copper	25	100	\$2.30
◀ K4505075	APR Brass Fitting Adapter, 1/2" PEX x 3/4" Copper	25	100	\$4.60
◀ K4507550	APR Brass Fitting Adapter, 3/4" PEX x 1/2" Copper	25	100	\$4.75
◀ K4507575	APR Brass Fitting Adapter, 3/4" PEX x 3/4" Copper	25	100	\$5.00
◀ K4507510	APR Brass Fitting Adapter, 3/4" PEX x 1" Copper	10	100	\$5.50
◀ K4501010	APR Brass Fitting Adapter, 1" PEX x 1" Copper	10	100	\$8.60

## APR DZR Brass Fitting Adapter



APR DZR Brass Fitting Adapter transitions Wirsbo AQUAPEX tubing to copper fitting connections. DZR Brass Fittings are safe for direct burial in soil.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K4501313	APR DZR Brass Fitting Adapter, 1 1/4" PEX x 1 1/4" Copper	-	10	\$16.35

## APR Brass Plug



APR Brass Plug temporary or permanently terminates the end of the Wirsbo AQUAPEX tubing.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4535050	APR Brass Plug, 1/2"	25	250	\$1.85
◀ K4537575	APR Brass Plug, 3/4"	25	250	\$3.25
◀ K4531010	APR Brass Plug, 1"	10	250	\$8.40

## APR Copper Tub Ell



APR Copper Tub Ell provides a 90-degree transition from tub and shower valves to Wirsbo AQUAPEX tubing.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K2885050	APR Copper Tub Ell, 1/2" PEX x 1/2" Copper (3" x 4")	25	100	\$9.60
◀ K2875050	APR Copper Tub Ell, 1/2" PEX x 1/2" Copper (3" x 6")	25	100	\$9.60

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Plumbing Systems

APR Copper Stub Ell provides a 90-degree transition from Wirsbo AQUAPEX tubing to copper pipe.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

## APR Copper Stub Ell



Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K2865050	APR Copper Stub Ell, 1/2" PEX x 1/2" Copper (3 1/2" x 8")	25	100	\$10.40
◀ K2855050	APR Copper Stub Ell, 1/2" PEX x 1/2" Copper (13" x 8")	25	100	\$13.15
◀ K2895050	APR Copper Stub Ell, 1/2" PEX x 1/2" Copper (8" x 13")	25	100	\$13.50
◀ K2897575	APR Copper Stub Ell, 3/4" PEX x 3/4" Copper (4" x 8")	25	100	\$20.10

APR Copper Straight Stub provides a straight transition from Wirsbo AQUAPEX tubing to copper pipe.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

## APR Copper Straight Stub



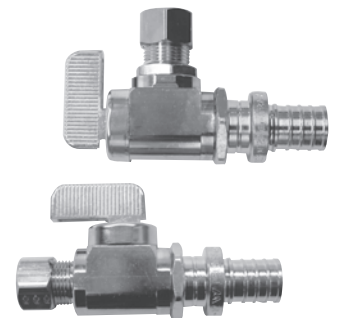
Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K2935050	APR Copper Straight Stub, 1/2" PEX x 1/2" Copper (8")	25	100	\$10.15
◀ K2945050	APR Copper Straight Stub, 1/2" PEX x 1/2" Copper (15")	25	100	\$11.90

## Brass APR Stop and Ball Valves

APR Full-port Stop Valve is chrome-plated and available in straight or angle stop configurations. Stop valves are used for point-of-use shut-off at the fixture. Both valve styles connect 1/2" Wirsbo AQUAPEX tubing to 3/8" o.d. risers. Both styles feature a quarter-turn shut-off.

**Note:** Compression inserts and rings for the 3/8" riser connections are included with the valves. APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

## Brass APR Full-port Stop Valve

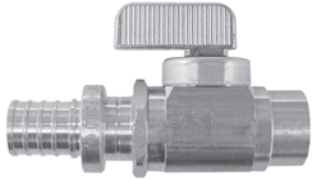


Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4895038	APR Full-port Angle Stop Valve for 1/2" PEX, 1/4-turn valve	10	100	\$12.40
◀ K4885038	APR Full-port Straight Stop Valve for 1/2" PEX, 1/4-turn valve	10	100	\$12.80

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Plumbing Systems

## Brass APR to Copper Ball Valve

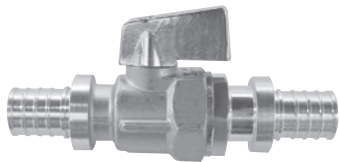


The APR to Copper Ball Valve features a quarter-turn shut-off valve for 1/2" Wirsbo AQUAPEX tubing with transition to 1/2" copper.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4805050	APR Ball Valve (large bore), 1/2" PEX x 1/2" copper	10	100	\$15.45

## Brass APR to APR Ball Valve

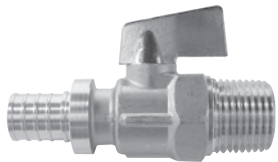


The APR Ball Valves feature a quarter-turn, in-line shut-off valve for 1/2" Wirsbo AQUAPEX tubing. The APR Angle Ball Valve features a quarter-turn, 90-degree shut-off valve.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4815050	APR Ball Valve (large bore), 1/2" PEX x 1/2" PEX	10	100	\$16.00
◀ K4875050	APR Angle Ball Valve, 1/2" PEX x 1/2" PEX	10	100	\$14.05

## Brass APR to MIP Ball Valve



The APR to MIP Ball Valve features a quarter-turn shut-off valve for 1/2" Wirsbo AQUAPEX tubing to 1/2" male NPT.

**Note:** APR Ratchet Tool and APR Blunt Expander Tool are required. APR Brass Sleeves sold separately.

Part No.	Part Description	Pkg. Qty.	Case Qty.	List Price/Ea.
◀ K4795050	APR to MIP Ball Valve (large bore), 1/2" PEX x 1/2" MIP	10	100	\$12.85

◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

## APR Tools and Accessories

This Tool Kit contains the Heavy-duty APR Ratchet Tool, 1/2", 3/4" and 1" jaw sets and a durable carrying case. The Heavy-duty APR Ratchet Tool pulls the APR Brass Sleeve over Wirsbo AQUAPEX tubing and APR fitting to complete the connection. This is a required component of the APR fitting system for 1/2" through 1 1/4" Wirsbo AQUAPEX tubing.

**Note:** The 1 1/4" jaw set is sold separately.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K6275010	Heavy-duty APR Ratchet Tool Kit	1	-	\$1,028.80
◀ K6270001	Heavy-duty APR Ratchet Tool only, includes case	1	-	\$610.05

### Heavy-duty APR Ratchet Tool Kit



This APR Ratchet Tool Kit contains the Ratchet Tool, 1/2" and 3/4" jaw sets and a durable carrying case. The APR Ratchet Tool pulls the APR Brass Sleeve over Wirsbo AQUAPEX tubing and APR fitting to complete the connection. This is a required component of the APR fitting system for 1/2" through 3/4" Wirsbo AQUAPEX tubing.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K6270020	APR Ratchet Tool Kit	1	-	\$769.90
◀ K6270002	APR Ratchet Tool only, includes case	1	-	\$486.85

### APR Ratchet Tool Kit



APR Ratchet Tool Jaw Set is used with the Heavy-duty and regular APR Ratchet Tools. Each set consists of two jaws for the size selected.

**Note:** The 1" and 1 1/4" jaw sets are only compatible with the Heavy-duty APR Ratchet Tool.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K6270500	APR Ratchet Tool Jaw Set (1/2")	1	-	\$147.90
◀ K6270750	APR Ratchet Tool Jaw Set (3/4")	1	-	\$160.20
◀ K6271000	Heavy-duty APR Ratchet Tool Jaw Set (1")	1	-	\$160.20
◀ K6271250	Heavy-duty APR Ratchet Tool Jaw Set (1 1/4")	1	-	\$172.55

### APR Ratchet Tool Jaw Set



◀ Discontinued item; available while quantities last. Please contact Uponor Customer Service for availability. All sales are final.

# Uponor Plumbing Systems

## APR Blunt Expander Tool



The APR Blunt Expander Tool Kit contains the APR Expander Heads for 1/2", 3/4" and 1" PEX tubing. The kit also includes the graphite lubricant for the tool and a durable carrying case for all kit components. The APR Blunt Expander Tool expands the Wirsbo AQUAPEX tubing in order to insert the APR fitting into the tubing. This is a required component of the APR fitting system for 1/2", 3/4", 1" and 1 1/4" Wirsbo AQUAPEX tubing.

**Note:** The APR Blunt Expander Tool and associated expander heads are not interchangeable with the ProPEX Expander Tools and associated expander heads.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K6285010	APR Blunt Expander Tool Kit	1	-	\$647.05
◀ K6280001	APR Blunt Expander Tool only, includes case	1	-	\$278.25

## APR Blunt Expander Head



All Blunt Expander heads listed below are used with the APR Blunt Expander Tool.

**Note:** The APR Blunt Expander Heads are not compatible with the ProPEX Expander Tools.

Part No.	Part Description	Each Qty.	Pkg. Qty.	List Price/Ea.
◀ K6280500	1/2" APR Blunt Expander Head	1	-	\$129.40
◀ K6280750	3/4" APR Blunt Expander Head	1	-	\$129.40
◀ K6281000	1" APR Blunt Expander Head	1	-	\$166.45
◀ K6281250	1 1/4" APR Blunt Expander Head	1	-	\$178.70

# Uponor

## Uponor's Crosslinked Polyethylene (PEX-a) Tubing

Let's face it: Your reputation may very well depend upon the tubing you choose. It's hard to access once the installation is done, so tubing quality is critical. Uponor's Engel-method process is a superior form of crosslinking that produces a long, uniform molecular chain. The resulting PEX-a tubing is extremely durable, able to withstand a wide range of pressures and temperatures.

### Proven Performance

Uponor PEX tubing has been used in heating systems since 1970, in plumbing systems and under long-term, high-temperature and high-pressure (203°F (95°C) at 152 psi) testing by an independent laboratory since 1973.

Uponor manufactures the following Engel-method tubing products: Wirsbo hePEX™ plus tubing, Wirsbo AQUAPEX® tubing and Wirsbo AQUAPEX plus tubing. Their special features make them more suitable for specific installations.

**Wirsbo hePEX plus tubing** is Engel PEX-a heat-transfer tubing sealed with a special polymer (EVOH) barrier that prevents corrosion of the ferrous components in a closed-loop heating system due to oxygen diffusion.

**Wirsbo AQUAPEX tubing** is the same PEX-a tubing as Wirsbo hePEX plus tubing, but without the oxygen-diffusion barrier. Wirsbo AQUAPEX carries the NSF-pw seal for use in potable water plumbing systems and can be used in heating systems that are isolated from ferrous components or are ferrous-free systems.

### Professionals Prefer Uponor PEX

- Durable and reliable
- Extensively lab and field tested
- Faster, easier installations
- Stress and chemical resistant

### Uponor PEX

- More than 35 years of rigorous testing
- More than 35 years of proven reliability

### Industry Ratings, Standards, Listings and Codes met by Uponor PEX Tubing

#### Hydrostatic Temperature and Pressure Ratings:

- 200°F (93.3°C) at 80 psi
- 180°F (82.2°C) at 100 psi
- 73.4°F (23.0°C) at 160 psi
- 120°F (48.9°C) at 130 psi (½", ¾" and 1" Wirsbo AQUAPEX tubing only)

#### Manufacturing Standards:

- ASTM F876 • ANSI/NSF Standard 14
- ASTM F877 • ANSI/NSF Standard 61
- ASTM F2023 • UL 1821
- ASTM F1960 • ULC-ORD C199P
- ASTM F2080 • CAN/CSA B137.5

#### Product Listings:

- IAPMO • NSF
- CSA • ITS
- HUD • ICC
- UL

#### Applicable Codes:

- IPC • IMC
- UPC • UMC
- NSP • NBC of Canada
- NPC of Canada

#### Fire-rated Assemblies:

##### United States

- K913 — Two-hour concrete floor/ceiling assembly
- L557 — One-hour wood frame floor/ceiling assembly
- U372 — One-hour wood frame wall assembly
- V444 — One-hour steel stud wall assembly

##### Canada

- WC/FCA120-01 — Two-hour concrete floor ceiling assembly
- WC/FCA120-02 — Two-hour concrete floor ceiling assembly
- WC/FCA 60-01 — One-hour wood frame floor/ceiling assembly
- UW/WA 60-02 — One-hour wood frame wall assembly
- UW/WA 60-01 — One-hour steel stud wall assembly

#### Warnock Hersey Plenum Rating:

- 25 flame spread/50 smoke developed (plenum rated) to ASTM E84
- CAN/ULC S102.2



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Part No.	List Price	Page	UPC Code
F1040500	\$65.45	103, 118	673372122382
F1040750	\$112.20	95, 118	673372122399
F1041000	\$196.30	95, 118	673372122405
F1052000	\$1,748.30	117, 118	673372204460
F1060500	\$196.30	103, 118	673372122412
F1060625	\$297.15	118	673372122429
F1060750	\$336.55	95, 118	673372122436
F1061000	\$589.00	95, 118	673372122443
F1061250	\$375.15	118	673372122450
F1061500	\$441.75	118	673372122467
F1062000	\$874.15	117, 118	673372195249
F1072512	\$1.25	137	673372117289
F1072520	\$1.80	137	673372117296
F1072530	\$2.35	137	673372117302
F1072536	\$3.05	137	673372117319
F1082512	\$1.40	137	673372117326
F1082520	\$1.80	137	673372117333
F1090375	\$229.05	118	673372115742
F1091500	\$440.75	120	673372189453
F1091750	\$680.00	120	673372211093
F1092500	\$440.75	120	673372189460
F1092750	\$680.00	120	673372211109
F1100750	\$560.95	95, 118	673372115766
F1101000	\$981.65	95, 118	673372115773
F1120375	\$572.65	118	673372115780
F1120500	\$654.45	103, 118	673372115797
F1120625	\$990.55	118	673372115803
F1921000	\$392.70	95, 119	673372115810
F1921250	\$375.15	119	673372115827
F1921500	\$441.75	119	673372115834
F1922000	\$874.15	117, 119	673372183055
F1930500	\$327.20	119	673372115841
F1930750	\$336.55	95, 119	673372115858
F2040500	\$65.45	119	673372150385
F2040750	\$112.20	119	673372154352
F2041000	\$196.30	119	673372154444
F2060500	\$196.30	119	673372150378
F2060750	\$336.55	119	673372154376
F2061000	\$589.00	119	673372154451
F2100750	\$560.95	119	673372154369
F2101000	\$981.65	119	673372154468
F2120500	\$654.45	119	673372150361
F2921000	\$392.70	120	673372154437
F2930500	\$327.20	120	673372154307
F2930750	\$336.55	120	673372154383
F3040500	\$65.45	120	673372154291
F3040750	\$112.20	120	673372154345
F3041000	\$196.30	120	673372154420
F3060500	\$196.30	120	673372154031
F3060750	\$336.55	120	673372154338
F3061000	\$589.00	120	673372154413
F3100750	\$560.95	120	673372154321
F3101000	\$981.65	120	673372154406
F3120500	\$654.45	120	673372154284
F3921000	\$392.70	120	673372154390

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A70400250	\$37.45	65	673372116596
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B1813000	\$215.90	14	673372102995
B1814000	\$328.90	14	673372103008
B2162000	\$43.45	26	673372103015
B2163000	\$89.55	26	673372103022
B2164000	\$132.10	26	673372103039
B2172000	\$57.65	27	673372103046
B2173000	\$97.60	27	673372103053
B2174000	\$143.40	27	673372103060
B2182000	\$83.70	27	673372103077
B2183000	\$109.45	27	673372103084
B2184000	\$122.85	27	673372103091
B2192000	\$69.45	27	673372103107
B2192500	\$44.40	26	673372153447
B2193000	\$67.75	27	673372103114
B2193500	\$88.50	26	673372153430
B2194000	\$75.75	27	673372103121
B2194500	\$130.95	26	673372103138
B2202000	\$23.10	28	673372103152
B2203000	\$50.20	28	673372103169
B2204000	\$77.55	28	673372103176
B2223020	\$53.80	28	673372103183
B2224020	\$81.55	28	673372103190
B2224030	\$82.25	28	673372103206
B2252751	\$2,111.95	26	673372103213
B2252752	\$4,223.85	26	673372103220
B2253751	\$4,372.85	26	673372103244
B2254751	\$2,261.00	26	673372103251
B2254752	\$4,521.95	26	673372103268
B2272101	\$2,111.95	26	673372103275
B2272102	\$4,223.85	26	673372103282
B2273101	\$2,186.50	26	673372103299
B2273102	\$4,372.85	26	673372103305
B2274101	\$2,261.00	26	673372103312
B2274102	\$4,521.95	26	673372103329
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D1141000	\$298.40	14	673372128834
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D1220625	\$1,458.60	14	673372118385
D1240750	\$1,033.20	14	673372130226
D1250500	\$322.00	14	673372118392
D1250625	\$437.60	14	673372118408
D1250750	\$619.90	14	673372128872
D1251000	\$854.50	14	673372128858
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F1021500	\$1,325.25	118	673372132299
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F1040250	\$56.05	118	673372122368

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A1180313	\$277.85	13	673372122035
A1210375	\$445.35	13	673372122013
A1220313	\$1,111.20	13	673372123020
A1220375	\$1,113.40	13	673372123037
A1220500	\$1,179.55	13	673372123044
A1220625	\$1,400.05	13	673372123051
A1240750	\$832.30	13	673372123068
A1241000	\$1,389.00	13	673372123075
A1250500	\$353.90	13	673372123082
A1250625	\$420.05	13	673372123099
A1250750	\$499.35	13	673372123105
A1251000	\$833.45	13	673372123112
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A1251500	\$1,860.30	13	673372208260
A1252000	\$2,750.70	13	673372207461
A1921250	\$453.70	13	673372203081
A1921500	\$620.10	13	673372208284
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A2400032	\$2.25	19	673372118941
A2403232	\$1.60	19	673372118958
A2603524	\$378.85	29	673372144988
A2603530	\$424.60	29	673372145008
A2603539	\$461.70	29	673372144995
A2620005	\$1.10	21	673372134293
A2620006	\$32.15	18	673372135726
A2620007	\$86.65	21	673372145305
A2620008	\$0.45	21	673372147194
A2620009	\$0.40	23	673372147187
A2630028	\$2.05	22	673372134309
A2640006	\$22.60	18	6733721171373
A2650001	\$0.75	21	673372167376
A2650004	\$0.30	21	673372167444
A2650006	\$178.20	18	673372166478
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A5110500	\$2.85	63, 109, 149	673372116961
A5110625	\$4.10	63	673372116978
A5110750	\$5.30	63, 101, 149	673372116985
A5150375	\$1.40	63, 149	673372117883
A5150750	\$3.00	63, 101, 149	673372117906
A5250500	\$1.40	63, 109, 144, 149, 151	673372212465
A5500500	\$2.05	63, 110, 149	673372118064
A5500625	\$3.25	63	673372118071
A5500750	\$6.05	63, 102, 149	673372118088
A5501000	\$6.65	63, 102, 149	673372118095
A5600001	\$102.30	64	673372118101
A5700500	\$8.90	64, 110, 151	673372118118
A5700625	\$11.85	64	673372116510
A5700750	\$15.75	64, 102, 151	673372116527
A5750500	\$5.15	151	673372203869

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K6271000	\$160.20	81, 163	673372138444
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K6280500	\$129.40	82, 164	673372140195
K6280750	\$129.40	82, 164	673372140201
K6281000	\$166.45	82, 164	673372140218
K6281250	\$178.70	82, 164	673372141130
K6285010	\$647.05	82, 164	673372140188
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Q2087550	\$49.00	123	673372201247
Q2100300	\$76.35	138	673372132640
Q2100400	\$92.50	138	673372132657
Q2101000	\$52.15	123	673372201049
Q2101051	\$52.00	123	673372202046
Q2110300	\$75.65	138	673372132664
Q2110400	\$90.75	138	673372132671
Q2120001	\$1.05	139	673372132602
Q2120002	\$1.95	139	673372132619
Q2120010	\$2.95	139	673372132633
Q2120020	\$7.05	139	673372132626
Q2120050	\$11.15	139	673372132541
Q2120750	\$11.25	139	673372132558
Q2121000	\$12.15	139	673372132565
Q2121051	\$55.75	123	673372202053
Q2121250	\$11.25	139	673372132596
Q2121251	\$15.40	139	673372132589
Q2121313	\$13.20	139	673372132572
Q2200400	\$39.95	140	673372117531
Q2200600	\$50.05	140	673372117548
Q2200800	\$61.95	140	673372117555
Q2201000	\$67.10	140	673372117562
Q2201200	\$73.10	140	673372117579
Q2210800	\$63.45	140	673372117586
Q2211000	\$67.35	140	673372117593
Q2211200	\$73.35	140	673372117609
Q2227557	\$12.90	121	673372135122
Q2235577	\$26.10	122	673372190855
Q2237550	\$15.10	121	673372188067
Q2237557	\$17.55	121	673372135139
Q2237757	\$30.60	122	673372190862
Q2240400	\$42.60	140	673372117616
Q2240600	\$51.10	140	673372117623
Q2240800	\$77.20	140	673372117630
Q2241000	\$87.10	140	673372119368
Q2241057	\$26.85	121	673372135146
Q2241200	\$88.25	140	673372119375
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Q2247550	\$21.90	121	673372135153
Q2247557	\$21.90	121	673372119382
Q2247577	\$34.20	122	673372191050
Q2247757	\$34.20	122	673372190848
Q2250400	\$45.40	140	673372125154
Q2250600	\$57.15	140	673372123914
Q2261050	\$35.20	121	673372135160

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K4515075	\$4.00	79, 159	673372137713
K4517510	\$7.30	79, 159	673372137744
K4517550	\$4.00	79, 159	673372137720
K4517575	\$5.10	79, 159	673372137737
K4521010	\$9.30	71, 158	673372137195
K4521313	\$20.95	78, 158	673372137201
K4525050	\$3.55	71, 158	673372137157
K4525075	\$5.80	77, 158	673372137164
K4527510	\$8.40	71, 158	673372137188
K4527575	\$6.65	77, 158	673372137171
K4531010	\$8.40	80, 160	673372137959
K4535050	\$1.85	80, 160	673372137935
K4537575	\$3.25	80, 160	673372137942
K4541010	\$10.25	76, 156	673372137300
K4541313	\$22.70	77, 156	673372137348
K4545050	\$2.70	76, 156	673372137270
K4545075	\$8.15	76, 156	673372137317
K4547510	\$9.40	76, 156	673372137294
K4547575	\$5.55	76, 156	673372137287
K4571010	\$13.95	78, 158	673372137256
K4571313	\$34.30	79, 159	673372137263
K4575050	\$5.80	78, 158	673372137218
K4575075	\$6.50	78, 158	673372137225
K457510	\$15.25	78, 158	673372137249
K457575	\$6.95	78, 158	673372137232
K4680500	\$0.80	76, 156	673372137980
K4680750	\$1.30	76, 156	673372137997
K4681000	\$2.15	76, 156	673372138000
K4681250	\$5.65	76, 156	673372150941
K4701010	\$15.20	77, 157	673372137577
K4701150	\$13.90	157	673372137645
K4701175	\$13.90	157	673372137669
K4701751	\$13.95	157	673372137652
K4701775	\$13.95	157	673372137621
K4705050	\$5.00	77, 157	673372137393
K4705575	\$7.95	157	673372137591
K4707550	\$8.35	157	673372137614
K4707555	\$8.20	157	673372137584
K4707557	\$8.15	157	673372137607
K4707575	\$8.45	77, 157	673372137560
K4707710	\$13.95	157	673372137638
K4710500	\$4.45	77, 157	673372137355
K4710750	\$6.70	77, 157	673372137362
K4710000	\$11.00	77, 157	673372137379
K4795050	\$12.85	162	673372138109
K4805050	\$15.45	162	673372138079
K4815050	\$16.00	162	673372138055
K48175050	\$14.05	162	673372138093
K4885038	\$12.80	161	673372138048
K4895038	\$12.40	161	673372138024
K6270001	\$610.05	81, 163	673372138413
K6270002	\$486.85	81, 163	673372139878
K6270020	\$769.90	81, 163	673372139885
K6270500	\$147.90	81, 163	673372138420
K6270750	\$160.20	81, 163	673372138437

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F930500	\$327.20	120	673372154277
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F5120500	\$7.20	150	673372117715
F5140500	\$9.55	150	673372117739
F5200375	\$2.75	150	673372117746
F5200500	\$2.75	150	673372117753
F5600500	\$4.50	145	673372117807
F5650500	\$9.40	145	673372212083
F5670500	\$2.60	145	673372212078
F5700002	\$29.50	66, 102, 110, 152	673372117836
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F5805000	\$19.75	151	673372150354
F7050375	\$24.85	65, 152	673372117845
F7050750	\$21.70	65, 102, 110, 152	673372117852
F7051000	\$26.90	65, 102, 152	673372117869
F7051258	\$81.75	64, 151	673372117876
F7060375	\$81.75	64, 151	673372118606
F8052000	\$326.00	117, 119	673372209069
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K2500600	\$149.75	155	673372137065
K2500800	\$201.50	155	673372137072
K2501000	\$259.45	155	673372137089
K2501200	\$302.75	155	673372137096
K2512450	\$223.95	155	673372167260
K2801050	\$53.65	154	673372137102
K2807557	\$57.85	154	673372166843
K2811050	\$69.65	154	673372137119
K2817557	\$80.25	154	673372166911
K2821050	\$85.65	154	673372137126
K2827557	\$89.30	154	673372166928
K2831050	\$102.95	154	673372137133
K2841050	\$125.40	154	673372137140
K2855050	\$13.15	161	673372137881
K2865050	\$10.40	161	673372137874
K2885050	\$9.60	160	673372137867
K2885050	\$9.60	160	673372137850
K2895050	\$13.50	161	673372137898
K2897575	\$20.10	161	673372137904
K2907557	\$51.85	154	673372166935
K2927557	\$42.10	154	673372166942
K2935050	\$10.15	161	673372137911
K2945050	\$11.90	161	673372137928
K2957557	\$72.30	154	673372166959
K4235050	\$8.40	157	673372137843
K4501010	\$8.60	80, 160	673372137829
K4501313	\$16.35	80, 160	673372137836
K4505050	\$2.30	80, 160	673372137775
K4505075	\$4.60	80, 160	673372137782
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K4507550	\$4.75	80, 160	673372137799
K4507575	\$5.00	80, 160	673372137805
K4511010	\$8.90	79, 159	673372137751
K4511313	\$16.80	79, 159	673372137768
K4515050	\$2.40	79, 159	673372137706

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A2650600	\$371.45	18	673372164986
A2650601	\$429.30	17	673372165013
A2650602	\$496.95	17	673372165105
A2651250	\$63.45	19	673372166485
A2651251	\$21.70	19	673372166492
A2651500	\$224.70	21	673372166508
A2651515	\$29.65	20	673372166461
A2660200	\$242.40	16	673372182041
A2660201	\$303.00	16	673372182058
A2660300	\$295.00	16	673372182065
A2660400	\$368.70	16	673372182072
A2660401	\$349.25	16	673372182089
A2660500	\$436.55	16	673372182096
A2660501	\$450.60	16	673372182102
A2660600	\$563.20	16	673372182119
A2660601	\$503.15	16	673372182126
A2660602	\$628.95	16	673372182133
A2660700	\$557.45	16	673372182140
A2660701	\$696.80	16	673372182157
A2660800	\$611.70	16	673372182164
A2660801	\$764.60	16	673372182171
A2663202	\$64.05	18	673372182225
A2663203	\$79.90	18	673372182232
A2663204	\$94.70	18	673372182249
A2663212	\$97.05	17	673372182256
A2663213	\$120.75	17	673372182263
A2663214	\$144.40	17	673372182270
A2663222	\$116.25	17	673372182287
A2663223	\$153.00	17	673372182294
A2663224	\$189.75	17	673372182301
A2803250	\$72.35	19	673372119092
A4020313	\$24.95	55	673372132305
A4020315	\$11.80	51	673372182200
A4020375	\$11.80	51	673372182117
A4020500	\$9.00	51	673372182224
A4020625	\$12.55	51	673372182311
A4020750	\$15.90	51	673372182248
A4021000	\$0.40	51	673372182255
A4021116	\$0.30	51, 52	67337218262
A4030625	\$16.40	51	673372168076
A4133210	\$19.95	49	67337218279
A4143210	\$19.95	49	67337218286
A4143220	\$24.65	49	673372128735
A4143225	\$24.65	49	673372128711
A4153220	\$25.90	49	673372128484
A4153225	\$25.90	49	673372128507
A4160313	\$3.25	52	673372182393
A4160375	\$3.05	52	67337218309
A4160500	\$2.85	52	67337218316
A4160625	\$3.05	52	67337218323
A4160750	\$3.85	52	67337218330
A4322020	\$7.70	54	67337218347
A4322050	\$8.20	54	67337218354
A4322075	\$7.85	54	67337216756
A4322510	\$15.05	54	67337216763

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Q4760750	\$1.95	42, 124	673372121088
Q4761000	\$4.10	42, 124	673372121095
Q4761250	\$10.60	42, 124	673372142007
Q4761500	\$13.45	42, 124	673372142014
Q4771010	\$2.50	40, 124	673372121101
Q4773838	\$1.30	40, 124	673372121118
Q4775050	\$1.35	40, 124	673372121125
Q4775075	\$2.75	124	673372188845
Q4776363	\$3.55	40	673372128254
Q4777510	\$3.95	124	673372188852
Q4777575	\$1.65	40, 124	673372121132
Q4837575	\$15.80	1	673372206663
Q4905038	\$9.15	1	673372206069
Q4905050	\$11.40	1	673372206267
Q4935038	\$8.70	1	673372206465
<b>METAL PRODUCTS</b>			
A2080020	\$7.40	51	673372118897
A2080032	\$17.05	19	673372118903
A2123210	\$16.70	49	673372118910
A2133275	\$19.90	49	673372128650
A2402000	\$118.70	25	673372135603
A2610020	\$39.15	23	673372134194
A2610100	\$272.80	21	673372147880
A2610120	\$22.75	20, 23	673372134200
A2610200	\$339.95	16	673372133944
A2610300	\$422.60	16	673372133951
A2610400	\$505.25	16	673372133968
A2610500	\$610.15	16	673372133975
A2610600	\$692.95	16	673372133982
A2610700	\$775.75	16	673372133999
A2610800	\$890.15	16	673372134002
A2611000	\$1,068.65	16	673372134019
A2611200	\$1,256.80	16	673372134026
A2620015	\$41.45	23	673372134149
A2620027	\$41.45	23	673372134156
A2620045	\$24.35	21	673372150149
A2620090	\$23.15	20	673372142236
A2621010	\$18.95	20	673372134132
A2631250	\$217.20	20	673372134224
A2640015	\$35.45	22	673372182198
A2640027	\$35.45	22	673372182195
A2650200	\$126.20	18	673372165051
A2650201	\$145.90	17	673372165075
A2650202	\$168.10	17	673372165020
A2650300	\$177.80	18	673372165068
A2650301	\$207.05	17	673372165044
A2650302	\$240.50	17	673372165037
A2650400	\$229.30	18	673372164962
A2650401	\$268.30	17	673372164993
A2650402	\$313.10	17	673372165082
A2650500	\$300.40	18	673372164979
A2650501	\$368.65	17	673372165006
A2650502	\$405.05	17	673372165099

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Q2261051	\$35.20	121	673372135177
Q2261057	\$35.20	121	673372135184
Q2267550	\$33.55	121	673372188043
Q2267557	\$33.55	121	673372188050
Q2277550	\$45.00	123	673372201650
Q2287550	\$49.20	123	673372201643
Q2337550	\$15.65	122	673372202664
Q2337557	\$15.60	121	673372202671
Q2347550	\$21.00	122	673372202244
Q2347557	\$21.15	121	673372202442
Q2367557	\$32.45	121	673372202640
Q2387550	\$35.60	122	673372202657
Q4340375	\$2.95	126	673372119931
Q4340500	\$2.95	126	673372119948
Q4350500	\$1.05	48, 125	673372119962
Q4350750	\$1.40	48, 125	673372119979
Q4351000	\$2.20	48, 125	673372119986
Q4351250	\$12.30	48, 125	673372198042
Q4351500	\$18.90	48, 125	673372198059
Q4352000	\$32.75	48, 117, 125	673372198066
Q4360500	\$2.80	126	673372120005
Q4440250	\$0.10	137	673372120067
Q4680625	\$0.35	40	673372120722
Q4681000	\$0.50	40, 95, 123	673372120739
Q4681250	\$0.80	40, 123	673372120746
Q4681500	\$1.05	40, 123	673372120753
Q4682000	\$2.15	40, 117, 119, 123	673372183253
Q4690301	\$0.17	40, 123	673372123136
Q4690302	\$0.17	40, 123	673372123160
Q4690511	\$0.17	40, 123	673372210522
Q4690512	\$0.17	40, 103, 123	673372210539
Q4690751	\$0.30	40, 123	673372123150
Q4690752	\$0.30	40, 95, 123	673372123167
Q4751010	\$4.60	43, 124	673372120975
Q4751150	\$4.25	44, 125	673372120982
Q4751175	\$4.65	44, 125	673372120999
Q4751311	\$11.10	44, 125	673372129589
Q4751313	\$12.00	43, 124	673372129565
Q4751317	\$9.50	44, 125	673372129664
Q4751331	\$11.50	44, 125	673372129541
Q4751337	\$11.15	44, 125	673372129527
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Q4751515	\$16.05	43, 124	673372129466
Q4751517	\$13.35	44, 125	673372129640
Q4751551	\$14.75	44, 125	673372129480
Q4751553	\$15.15	44, 125	673372129442
Q4751557	\$14.35	44, 125	673372129428
Q4751751	\$4.85	44, 125	673372121002
Q4751775	\$4.05	44, 125	673372121019
Q4755050	\$1.60	43, 124	673372121026
Q4755575	\$6.25	44, 125	673372188869
Q4757550	\$2.15	44, 125	673372121033
Q4757555	\$2.45	44, 125	673372121040
Q4757557	\$2.45	44, 125	673372121057
Q4757575	\$2.55	43, 124	673372121064

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C454020	\$151.95	41, 117, 131	673372198257
C454757	\$8.80	41, 131	673372118798
C457010	\$17.80	47, 132	673372118804
C457131	\$40.95	47, 132	673372118811
C457151	\$48.45	47, 132	673372118828
C457575	\$15.65	47, 132	673372118835
C4701250	\$62.15	44, 131	673372142588
C4701311	\$63.05	45, 132	673372182485
C4701317	\$62.20	45, 132	673372182447
C4701331	\$44.40	45, 132	673372117418
C4701337	\$44.05	45, 132	673372117425
C4701500	\$59.85	44, 131	673372142595
C4701531	\$79.80	45, 132	673372182454
C4701533	\$83.85	45, 132	673372182461
C4701537	\$81.05	45, 132	673372182478
C4701551	\$80.75	45, 132	673372117449
C4701553	\$100.05	45, 132	673372117456
C4701557	\$86.45	45, 132	673372117463
C4711250	\$37.30	43, 131	673372117494
C4711250	\$69.10	43, 131	673372117500
K4020500	\$10.60	78	673372166164
K4020750	\$13.50	78	673372166171
K4143210	\$25.30	78	673372166119
K4143275	\$25.30	78	673372166102
Q2120375	\$5.10	130	673372133630
Q2500400	\$129.45	142	673372119399
Q2500600	\$184.90	142	673372119405
Q2500800	\$241.70	142	673372119412
Q2501000	\$296.45	142	673372119436
Q2501200	\$349.30	142	673372119450
Q2512450	\$340.20	142	673372155045
Q2801050	\$44.40	108, 141	673372119528
Q2807550	\$54.70	141	673372119535
Q2807557	\$62.80	141	673372119542
Q2811050	\$60.10	108, 141	673372119566
Q2811263	\$683.05	24	673372133715
Q2811275	\$723.80	24	673372133685
Q2817550	\$84.10	24	673372119573
Q2817557	\$84.10	141	673372119580
Q2821050	\$75.70	108, 141	673372119603
Q2821263	\$1,097.00	24	673372133753
Q2821275	\$1,029.15	24	673372133876
Q2827550	\$105.45	141	673372119610
Q2827557	\$111.10	141	673372119627
Q2831050	\$94.70	108, 141	673372119641
Q2837550	\$114.45	141	673372119658
Q2837557	\$137.25	141	673372119665
Q2841050	\$115.60	108, 141	673372119689
Q2847550	\$118.10	141	673372119696
Q2847557	\$145.20	141	673372119702
Q2850500	\$15.25	137	673372119719
Q2863850	\$14.80	137	673372119726
Q2865050	\$10.00	137	673372119733
Q2875050	\$9.80	137	673372119740
Q2885050	\$9.30	137	673372119764

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D4545050	\$6.45	58	673372147644
D4546363	\$15.20	58	673372134927
D4547575	\$16.05	58	673372134934
D4571010	\$34.85	59	673372134941
D4575075	\$14.95	59	673372144308
D4576375	\$16.05	59	673372134965
D4577510	\$24.85	59	673372134972
D4577575	\$18.15	59	673372134989
D4701010	\$31.55	58	673372134996
D4701150	\$31.55	58	673372136068
D4701163	\$31.55	58	673372136112
D4701175	\$31.55	58	673372136082
D4707550	\$26.60	58	673372139861
D4707563	\$26.60	58	673372136099
D4707575	\$26.60	58	673372135054
D4710625	\$10.05	58	673372135085
D4710750	\$13.50	58	673372135092
D4711000	\$18.80	58	673372135108
F2741050	\$44.25	142	673372117340
F2741075	\$40.55	142	673372117357
F2751050	\$41.35	142	673372117364
F2751075	\$45.20	142	673372117371
F2761050	\$44.75	142	673372117388
F2781050	\$33.85	25	673372117395
F2791050	\$38.50	25	673372117647
F2801575	\$402.75	25, 142	673372117654
F2802075	\$581.90	25, 142	673372117661
F2811220	\$815.45	24	673372133654
F2811225	\$871.70	24	673372133814
F2821220	\$965.30	25	673372133845
F2821225	\$1,018.35	25	673372133784
F4410500	\$13.35	135	673372117685
F4420500	\$16.05	135	673372117692
F4440500	\$1.00	135	673372124744
F5400250	\$0.75	135	673372117760
F5400500	\$1.35	135	673372117784
G4501313	\$19.95	48, 133	673372118613
G4501515	\$32.95	48, 133	673372118620
G4511010	\$14.45	47, 133	673372118637
G4511313	\$22.65	47, 133	673372118644
G4511515	\$32.55	47, 133	673372118651
G4517575	\$10.90	47, 133	673372118668
G4521010	\$17.25	46, 132	673372118675
G4521313	\$26.10	46, 132	673372118682
G4521515	\$36.10	46, 132	673372118699
G4522020	\$149.70	46, 117, 132	673372119820
G4527575	\$12.25	46, 132	673372118705
G4541010	\$12.30	41, 131	673372118712
G4541307	\$20.95	131	673372118729
G4541310	\$25.10	131	673372118736
G4541313	\$27.30	41, 131	673372118743
G4541510	\$30.40	131	673372118750
G4541510	\$31.55	131	673372118767
G4541513	\$33.20	131	673372118774
G4541515	\$42.05	41, 131	673372118781

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A4322525	\$14.95	54	673372116770
A4322575	\$10.75	54	673372116787
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A4332075	\$6.15	54	673372116800
A4332575	\$11.45	54	673372116817
A4342050	\$7.35	55	673372116824
A4342075	\$7.00	55	673372116831
A4342510	\$11.35	55	673372128919
A4342575	\$19.55	55	673372128674
A4372075	\$18.40	56	673372124126
A4382075	\$12.45	56	673372116848
A4392075	\$19.55	56	673372116855
A5802075	\$29.75	25	673372142779
A5802575	\$32.40	25	673372142786
A5902075	\$60.30	25	673372142793
A5902575	\$62.20	25	673372142809
D4020500	\$13.30	53	673372144285
D4020625	\$15.65	53	673372134583
D4030625	\$17.05	53	673372144537
D4030750	\$17.25	53	673372144544
D4120500	\$10.10	53	673372118415
D4120625	\$11.10	53	673372118422
D4120750	\$16.50	53	673372128896
D4143210	\$26.65	50	673372134590
D4143263	\$26.65	50	673372134606
D4143275	\$26.65	50	673372134613
D4153210	\$27.65	50	673372134620
D4153263	\$27.65	50	673372134637
D4153275	\$27.65	50	673372134644
D4375075	\$21.05	57	673372134651
D4376375	\$21.05	57	673372134668
D4377575	\$21.05	57	673372134675
D4385075	\$21.70	57	673372134682
D4386375	\$21.70	57	673372134699
D4387575	\$21.70	57	673372134705
D4395075	\$22.00	57	673372134712
D4396375	\$22.00	57	673372134729
D4501010	\$18.85	60	673372134736
D4505050	\$20.10	60	673372144360
D4505075	\$10.30	60	673372144353
D4506375	\$9.60	60	673372134767
D4507510	\$26.80	60	673372134774
D4507575	\$13.40	60	673372134781
D4511010	\$18.65	60	673372134798
D4515050	\$13.60	60	673372144322
D4515075	\$9.40	60	673372144346
D4516375	\$17.55	60	673372134828
D4517510	\$17.10	60	673372134835
D4517575	\$13.35	60	673372134842
D4521010	\$27.45	59	673372134859
D4525075	\$16.50	59	673372144292
D4526375	\$17.65	59	673372134873
D4527510	\$23.25	59	673372134880
D4527575	\$19.90	59	673372134897
D4541010	\$19.75	58	673372134903

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Q4710625	\$8.10	42	673372164863
Q4710750	\$6.75	42, 99, 127	673372120951
Q4711000	\$11.15	42, 99, 127	673372120968
Q4712000	\$143.10	42, 117, 127	673372182805
Q4795050	\$17.85	136	673372121156
Q4803850	\$14.45	136	673372121163
Q4805050	\$15.30	136	673372121170
Q4807575	\$27.75	136	673372121194
Q4815050	\$17.50	136	673372121217
Q4817575	\$27.05	136	673372121224
Q4821010	\$46.70	136	673372121231
Q4827575	\$38.55	136	673372121248
Q4855038	\$10.40	135	673372121293
Q4865038	\$10.60	135	673372121309
Q4875050	\$14.70	136	673372121316
Q4885038	\$13.40	135	673372125796
Q4893838	\$16.75	136	673372162449
Q4895038	\$13.60	135	673372124362
Q5806375	\$28.75	25	673372142755
Q5807575	\$30.35	25	673372142762
Q5906375	\$56.50	25	673372142823
Q5907575	\$55.90	25	673372142816
Q5930500	\$49.95	144	673372203276
Q5955025	\$29.50	145	673372203876
Q7060050	\$2.50	98, 107	673372121583
Q70601BB	\$40.00	107	673372121590
Q70601BL	\$40.00	107	673372121606
Q70601BR	\$40.00	107	673372124867
Q70601CH	\$40.00	107	673372121613
Q70601WH	\$21.50	107	673372121620
Q70643BB	\$40.00	97, 106	673372162326
Q70643BL	\$40.00	97, 106	673372162289
Q70643CH	\$40.00	97, 106	673372162272
Q70643WH	\$23.00	97, 106	673372161268
Q7160050	\$2.50	98, 108	673372121651
Q71801BR	\$12.00	98, 108	673372121811
Q71801WH	\$7.50	98, 108	673372121835
Q74000BR	\$30.00	96, 105	673372140072
Q74000WH	\$30.00	96, 105	673372140065
Q74001BR	\$30.00	96, 105	673372140096
Q74001WH	\$30.00	96, 105	673372140089
Q7400501	\$12.00	110	673372209465
Q74300BR	\$45.00	96, 105	673372161275
Q74355CP	\$82.75	103	673372161282
Q74400BR	\$30.00	96, 105	673372162265
Q74400WH	\$30.00	96, 105	673372161299
Q74401BR	\$30.00	96, 105	673372162319
Q74401WH	\$30.00	96, 105	673372161305
Q74455BR	\$85.00	104	673372162258
Q74455WH	\$75.00	104	673372161312
Q74475BR	\$85.00	104	673372161320
Q74475WH	\$80.00	104	673372161329
Q74900BR	\$30.00	96, 105	673372140034
Q74900WH	\$30.00	96, 105	673372140027

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Q4525075	\$5.40	46, 129	673372120388
Q4526375	\$6.25	46	673372120395
Q4527510	\$8.90	46, 129	673372120401
Q4527575	\$5.35	46, 100, 129	673372120418
Q4531000	\$8.55	49, 130	673372120425
Q4532000	\$98.05	49, 117, 130	673372188241
Q4533838	\$2.60	49, 130	673372120432
Q4535050	\$1.85	49, 130	673372120449
Q4536363	\$3.85	49	673372120456
Q4537575	\$3.65	49, 130	673372120463
Q4541010	\$10.00	41, 99, 126	673372120470
Q4542015	\$66.35	117, 126	673372182690
Q4542020	\$102.95	41, 117, 126	673372182706
Q4543838	\$3.05	41, 126	673372120500
Q4543850	\$5.35	126	673372120517
Q4545050	\$2.70	41, 109, 126	673372120524
Q4545075	\$8.05	126	673372120531
Q4546363	\$5.20	41	673372120548
Q4547510	\$9.60	99, 126	673372120555
Q4547575	\$5.65	41, 99, 126	673372120562
Q4571010	\$14.60	46, 129	673372120579
Q4571075	\$11.75	46, 101, 129	673372120586
Q4572020	\$160.75	46, 117, 129	673372182850
Q4575050	\$6.15	46, 129	673372120593
Q4575075	\$6.75	46, 129	673372120609
Q4576375	\$7.90	46	673372107891
Q4577510	\$16.05	46, 129	673372120616
Q4577575	\$6.90	46, 101, 129	673372120623
Q4585050	\$5.00	42, 127	673372120630
Q4587575	\$8.90	42, 127	673372120647
Q4591010	\$17.65	41, 126	673372120654
Q4653850	\$7.95	130	673372120685
Q4655050	\$5.40	130	673372120692
Q4701010	\$16.70	44, 100, 128	673372120821
Q4701150	\$16.70	45, 100, 128	673372120838
Q4701175	\$16.70	45, 100, 128	673372120845
Q4701751	\$16.70	45, 100, 128	673372120852
Q4701775	\$16.70	45, 100, 128	673372120869
Q4702000	\$175.05	44, 117, 128	673372182713
Q4702051	\$142.95	45, 117, 128	673372182720
Q4702053	\$168.45	45, 117, 128	673372182737
Q4702055	\$180.20	45, 117, 128	673372182744
Q4702210	\$148.45	45, 117, 128	673372182751
Q4702213	\$161.10	45, 117, 128	673372182768
Q4702215	\$170.80	45, 117, 128	673372182775
Q4702275	\$148.70	45, 117, 128	673372182782
Q4702575	\$148.70	45, 117, 128	673372182799
Q4705050	\$5.55	44, 109, 128	673372120876
Q4705575	\$9.40	45, 128	673372120883
Q4707550	\$8.85	45, 128	673372120890
Q4707555	\$9.45	45, 128	673372120906
Q4707557	\$8.95	45, 128	673372120913
Q4707575	\$8.95	44, 100, 128	673372120920
Q4707710	\$14.30	42, 109, 127	673372120937

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Q2897575	\$24.20	137	673372119788
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Q2955050	\$11.45	137	673372119825
Q2945050	\$12.85	137	673372119832
Q2957575	\$21.00	144	673372136006
Q4020375	\$10.20	52	673372119849
Q4020500	\$7.45	52	673372119856
Q4020625	\$9.15	52	673372119863
Q4020750	\$10.35	52	673372124461
Q4030625	\$16.05	52	673372168083
Q4030750	\$15.65	52	673372141123
Q4125050	\$7.95	43, 127	673372119870
Q4143210	\$25.80	50	673372119894
Q4143275	\$27.20	50	673372138758
Q4153210	\$25.95	50	673372129190
Q4153275	\$27.20	50	673372129251
Q4233850	\$14.65	127	673372119900
Q4235038	\$10.80	127	673372143073
Q4235050	\$8.35	127	673372119917
Q4300250	\$29.65	137	673372119924
Q4375075	\$14.25	56	673372138260
Q4376375	\$14.25	56	673372138239
Q4377575	\$14.90	56	673372138222
Q4385075	\$13.40	56	673372120029
Q4386375	\$13.40	56	673372120029
Q4387575	\$14.25	56	673372138253
Q4395075	\$14.90	56	673372120036
Q4396375	\$15.65	56	673372120043
Q4397575	\$16.25	56	673372138246
Q4455050	\$39.80	145	673372123754
Q4501010	\$8.10	48, 130	673372120104
Q4502020	\$70.10	48, 117, 130	673372182652
Q4503850	\$2.95	48, 130	673372120135
Q4505050	\$2.10	48, 130	673372120142
Q4505075	\$3.60	48, 130	673372120159
Q4506350	\$4.40	48	673372120166
Q4506375	\$4.45	48	673372120173
Q4507510	\$5.50	48, 130	673372120180
Q4507550	\$4.20	48, 130	673372120197
Q4507575	\$4.50	48, 130	673372120203
Q4511010	\$7.60	47, 101, 129	673372120210
Q4512020	\$78.85	47, 117, 129	673372182669
Q4513850	\$3.15	47, 129	673372120241
Q4515050	\$2.15	47, 129	673372120258
Q4515075	\$4.25	47, 129	673372120265
Q4516350	\$4.45	47	673372120272
Q4516375	\$4.90	47	673372120289
Q4517510	\$7.45	47, 129	673372120296
Q4517550	\$4.70	47, 129	673372120302
Q4517575	\$4.90	47, 101, 129	673372120319
Q4521010	\$10.70	46, 100, 129	673372120326
Q4521075	\$7.55	46, 129	673372120333
Q4522020	\$95.05	46, 117, 129	673372182676
Q4523850	\$3.70	46, 129	673372120364

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A3601001	\$259.55		67337221178
A3601002	\$23.55		673372211086
A3601012	\$511.20		673372211185
A3601075	\$319.45		673372211154
A5055001	\$14.35	62	673372116862
A5060701	\$15.35	61	673372116886
A5060702	\$22.25	61	673372116893
A5060712	\$37.95	61	673372212113
A5060722	\$10.30	61	673372212106
A5060732	\$10.60	61	673372212090
A5060761	\$102.65	61	673372125734
A5073752	\$16.65	62	673372116923
A5075002	\$16.55	62	673372116930
A5080375	\$11.95	62	673372129848
A5080500	\$11.95	62	673372129824
A5401110	\$7.95	33	673372118033
A5401112	\$273.60	33	673372118040
A5410750	\$263.00	33	673372129312
A5411000	\$286.00	33	673372129299
A8010002	\$40.00	32	673372204064
A8010004	\$110.00	32	673372204088
A8020000	\$1,360.00	30	673372204170
A8110001	\$95.00	32	673372204101
A9010000	\$625.00	B	673372175494
A9010001	\$565.00	B	673372215688
A9010002	\$495.00	B	673372215671
A9010003	\$430.00	B	673372215664
A9010201	\$2,350.00	C	673372175067
A9010501	\$88.00		673372175500
A9010510	\$250.00	E	673372175845
A9010520	\$235.00	E	673372175074
A9010530	\$235.00	E	673372175081
A9010540	\$200.00	E	673372185646
A9010599	\$33.00	E	673372175098
A9011000	\$2,095.00	A	673372175241
A9011001	\$70.00	31	673372175104
A9011002	\$29.00	F	673372175111
A9011003	\$45.00	F	673372175128
A9011100	\$620.00	C	673372175258
A9011200	\$555.00	C	673372175265
A9011400	\$685.00	D	673372177483
A9011500	\$1,095.00	D	673372175449
A9011600	\$755.00	D	673372187046
A9012000	\$1,145.00	A	673372175296
A9012002	\$55.00	31	673372175135
A9012003	\$69.00	F	673372175142
A9012004	\$395.00	F	673372175159
A9012005	\$70.00	30	673372220873
A9012010	\$80.00	30	673372175166
A9012020	\$70.00	D	673372175173
A9013000	\$1,140.00	B	673372175302
A9013001	\$77.00	31	673372175180
A9013021	\$615.00	30	673372191647
A9013022	\$665.00	30	673372191845

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A3030004	\$117.60	36	673372119184
A3030009	\$13.40	36	673372119214
A3030010	\$13.40	36	673372153232
A3030101	\$86.95	34	673372123358
A3030102	\$107.30	34	673372123372
A3030103	\$90.50	34	673372138949
A3030111	\$54.55	36	673372125185
A3030113	\$119.70	36	673372125758
A3030523	\$59.75	H	673372210362
A3040007	\$24.40	34, 35	673372136846
A3040039	\$426.95	32	673372119269
A3040040	\$405.30	34, 35	673372119276
A3040079	\$77.85	34, 35	673372129053
A3040090	\$1,280.50	32	673372130202
A3040091	\$280.80	32	673372130189
A3040101	\$851.75	32	673372129718
A3040150	\$360.00	35	673372119283
A3040201	\$851.75	32	673372129695
A3040212	\$1,546.25	32	673372129077
A3040311	\$1,676.60	32	673372129079
A3040411	\$4,004.35	32	673372129015
A3040501	\$155.45	34	673372132312
A3040512	\$297.20	35	673372129114
A3040612	\$1,225.60	32	673372135610
A3040701	\$1,886.35	32	673372157636
A3041411	\$2,443.90	34	673372133833
A3041501	\$248.55	34	673372132268
A3041511	\$311.00	35	673372129091
A3050050	\$37.10	38	673372119290
A3060070	\$76.95	32	673372119306
A3060071	\$70.80	32, 35	673372119313
A3060072	\$172.55	32, 35	673372119320
A3070525	\$224.10	37	673372141116
A3070526	\$236.60	37	673372119344
A3080301	\$301.10	38	673372119351
A3080404	\$206.60	36	673372138963
A3080406	\$263.00	36	673372138956
A3130750	\$443.10	32	673372139786
A3131000	\$598.10	32	673372130868
A3131250	\$672.25	32	673372130882
A3131500	\$891.85	32	673372130905
A3500101	\$4,789.50	673372135566	
A3500201	\$5,062.45	673372135559	
A3500212	\$8,224.55	673372135573	
A3501311	\$11,642.40	673372135535	
A3502311	\$10,995.25	673372135542	
A3509000	\$1,760.00	39	673372211116
A3509002	\$2,500.00	39	673372211123
A3509500	\$2,380.00	39	673372211130
A3509502	\$3,250.00	40	673372211147
A3600075	\$41.80	H	673372210898
A3600075	\$126.25	H	673372211062
A3600175	\$10.30	H	673372210348
A3600275	\$193.20	H	673372211079
A3600375	\$27.95	H	673372210287

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Q74901BR	\$30.00	96, 105	673372140058
Q74901WH	\$30.00	96, 105	673372140041
Q74955BR	\$85.00	104	673372139816
Q74955CP	\$85.00	103	673372139793
Q74955WH	\$75.00	104	673372139809
Q74975BR	\$85.00	104	673372139939
Q74975WH	\$80.00	104	673372139923
Q7500040	\$25.00	111	673372140126
Q7500043	\$25.00	111	673372161336
Q7500044	\$25.00	111	673372161343
Q7500049	\$25.00	111	673372140133
Q7500100	\$160.00	107	673372121941
Q7500200	\$160.00	98, 108	673372121958
Q7500300	\$160.00	97, 107	673372162364
Q7503000	\$73.00	97, 106	673372122030
Q75040BR	\$160.00	97, 106	673372139991
Q75040WH	\$160.00	97, 106	673372139984
Q75043CP	\$200.00	97, 106	673372162364
Q75044BR	\$160.00	97, 106	673372162337
Q75044WH	\$160.00	97, 106	673372162333
Q75049BR	\$160.00	97, 106	673372140010
Q75049WH	\$160.00	97, 106	673372140003
Q7511050	\$55.00	99	673372209267
Q7517550	\$54.00	99	673372209281
Q7521010	\$63.00	99	673372209304
Q7527575	\$58.00	99	673372209328
Q7531050	\$59.00	99	673372209274
Q7537550	\$55.00	99	673372209298
Q7541050	\$59.00	99	673372209311
Q7547550	\$55.00	99	673372209335
Q7602000	\$500.00	111	673372142342
Q8520001	\$350.00	111	673372140355
Q8521010	\$47.70	133	673372124898
Q8525050	\$21.20	133	673372124904
Q8527575	\$31.80	133	673372124911
V4505050	\$17.35	134	673372190275
V4507575	\$34.25	134	673372190244
V4511010	\$51.70	134	673372190282
V4511313	\$107.85	134	673372190251
V4511515	\$124.50	134	673372190442
V4515050	\$18.45	134	673372190268
V4517575	\$37.95	134	673372190305
V4525050	\$19.40	134	673372194846
V4527575	\$40.35	134	673372194853
V4543850	\$10.00	134	673372205665
<b>SYSTEM PRODUCTS</b>			
A2620001	\$1,109.75	23	673372134163
A2620002	\$3.95	22	673372134231
A2630001	\$165.65	23	673372146388
A3010100	\$107.95	38	673372119139
A3010522	\$81.50	37	673372119146
A3010525	\$183.35	37	673372141093
A3010526	\$196.20	37	673372141109
A3020522	\$110.65	37	673372119160
A3030003	\$96.75	36	673372119177

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500104	\$30.50	85	N/A	500104	\$30.50	85	N/A
500105	\$41.40	85	N/A	500105	\$41.40	85	N/A
500106	\$52.90	85	N/A	500106	\$52.90	85	N/A
505654	\$181.75	87	N/A	505654	\$181.75	87	N/A
505655	\$331.25	87	N/A	505655	\$331.25	87	N/A
505656	\$470.35	87	N/A	505656	\$470.35	87	N/A
505657	\$580.45	87	N/A	505657	\$580.45	87	N/A
505850	\$32.30	87	N/A	505850	\$32.30	87	N/A
505851	\$44.10	87	N/A	505851	\$44.10	87	N/A
505852	\$63.35	87	N/A	505852	\$63.35	87	N/A
505853	\$79.95	87	N/A	505853	\$79.95	87	N/A
505854	\$109.70	87	N/A	505854	\$109.70	87	N/A
505855	\$197.85	87	N/A	505855	\$197.85	87	N/A
505856	\$284.95	87	N/A	505856	\$284.95	87	N/A
505857	\$339.30	87	N/A	505857	\$339.30	87	N/A
525316	\$511.80		N/A	525316	\$511.80		N/A
525317	\$531.30		N/A	525317	\$531.30		N/A
525318	\$633.45		N/A	525318	\$633.45		N/A
525321	\$447.60		N/A	525321	\$447.60		N/A
525406	\$23.70		N/A	525406	\$23.70		N/A
525407	\$22.55		N/A	525407	\$22.55		N/A
525509	\$358.75		N/A	525509	\$358.75		N/A
525510	\$388.50		N/A	525510	\$388.50		N/A
525513	\$433.60		N/A	525513	\$433.60		N/A
525738	\$142.65	88	N/A	525738	\$142.65	88	N/A
525740	\$116.15	88	N/A	525740	\$116.15	88	N/A
525741	\$100.45	87	N/A	525741	\$100.45	87	N/A
525742	\$98.40	87	N/A	525742	\$98.40	87	N/A
525743	\$92.00	87	N/A	525743	\$92.00	87	N/A
525744	\$87.15	87	N/A	525744	\$87.15	87	N/A
525745	\$75.90	87	N/A	525745	\$75.90	87	N/A
525746	\$77.40	87	N/A	525746	\$77.40	87	N/A
525747	\$63.55	87	N/A	525747	\$63.55	87	N/A
525816	\$1,466.30	88	N/A	525816	\$1,466.30	88	N/A
525818	\$1,610.05	88	N/A	525818	\$1,610.05	88	N/A
525852	\$214.25	90	N/A	525852	\$214.25	90	N/A
525853	\$218.55	90	N/A	525853	\$218.55	90	N/A
525854	\$288.65	90	N/A	525854	\$288.65	90	N/A
525862	\$70.75	90	N/A	525862	\$70.75	90	N/A
525863	\$95.35	90	N/A	525863	\$95.35	90	N/A
525863	\$95.35	90	N/A	525863	\$95.35	90	N/A
525863	\$95.35	90	N/A	525863	\$95.35	90	N/A
525872	\$277.60	90	N/A	525872	\$277.60	90	N/A
525873	\$333.15	90	N/A	525873	\$333.15	90	N/A
525874	\$328.00	90	N/A	525874	\$328.00	90	N/A
525911	\$65.55	88	N/A	525911	\$65.55	88	N/A
525913	\$74.75	88	N/A	525913	\$74.75	88	N/A
525915	\$74.75	88	N/A	525915	\$74.75	88	N/A
1007355	\$1,034.80	89	N/A	1007355	\$1,034.80	89	N/A
1007356	\$23.05	89	N/A	1007356	\$23.05	89	N/A
1007357	\$48.20	89	N/A	1007357	\$48.20	89	N/A
1021990	\$665.60	89	N/A	1021990	\$665.60	89	N/A
1021991	\$582.40	89	N/A	1021991	\$582.40	89	N/A
1021992	\$566.80	88	N/A	1021992	\$566.80	88	N/A

Part No.	List Price	Page	UPC Code	Part No.	List Price	Page	UPC Code
E6081544	\$14.95	75, 112, 153	673372118552	E6081544	\$14.95	75, 112, 153	673372118552
E6082000	\$235.95	75, 112, 153	673372118569	E6082000	\$235.95	75, 112, 153	673372118569
E6090005	\$5.90	65	673372118576	E6090005	\$5.90	65	673372118576
E6091700	\$67.25	65	673372118583	E6091700	\$67.25	65	673372118583
E6110046	\$82.05	75	6733721174459	E6110046	\$82.05	75	6733721174459
E6111188	\$46.25	75	673372116992	E6111188	\$46.25	75	673372116992
E6111875	\$61.60	75	673372117005	E6111875	\$61.60	75	673372117005
E6122000	\$65.60	50	673372124447	E6122000	\$65.60	50	673372124447
E6160750	\$18.20	74	673372129374	E6160750	\$18.20	74	673372129374
E6161000	\$42.25	74	673372129350	E6161000	\$42.25	74	673372129350
O5590028	\$37.30	148	673372121323	O5590028	\$37.30	148	673372121323
O6260002	\$670.00	70, 146	673372186445	O6260002	\$670.00	70, 146	673372186445
O6260100	\$218.75	70, 113, 146	673372164665	O6260100	\$218.75	70, 113, 146	673372164665
O6260200	\$488.50	70, 117, 146	673372185448	O6260200	\$488.50	70, 117, 146	673372185448
O6260600	\$135.85	70, 113, 146	673372164658	O6260600	\$135.85	70, 113, 146	673372164658
O6261500	\$1,528.55	70, 113, 146	673372190640	O6261500	\$1,528.55	70, 113, 146	673372190640
O6261550	\$2,128.30	70, 113, 146	673372212069	O6261550	\$2,128.30	70, 113, 146	673372212069
O6262000	\$9,273.80	70, 117, 146	673372185462	O6262000	\$9,273.80	70, 117, 146	673372185462
O6275075	\$256.75	71, 114, 147	673372121347	O6275075	\$256.75	71, 114, 147	673372121347
O6282000	\$503.40	72, 117, 148	673372185295	O6282000	\$503.40	72, 117, 148	673372185295
O6295075	\$597.10	71, 114, 147	673372121354	O6295075	\$597.10	71, 114, 147	673372121354
O6301000	\$1,134.50	71, 113, 147	673372121361	O6301000	\$1,134.50	71, 113, 147	673372121361
O6301010	\$3.05	71, 113, 147	673372121378	O6301010	\$3.05	71, 113, 147	673372121378
O6310375	\$131.40	72, 148	673372121385	O6310375	\$131.40	72, 148	673372121385
O6310500	\$119.50	72, 114, 148	673372121392	O6310500	\$119.50	72, 114, 148	673372121392
O6310625	\$119.45	72	673372121408	O6310625	\$119.45	72	673372121408
O6310750	\$119.50	72, 148	673372121415	O6310750	\$119.50	72, 148	673372121415
O6311000	\$119.50	72, 148	673372121422	O6311000	\$119.50	72, 148	673372121422
O6323810	\$304.20	70, 113, 146	673372197847	O6323810	\$304.20	70, 113, 146	673372197847
O6380750	\$143.30	72, 148	673372121491	O6380750	\$143.30	72, 148	673372121491
O6381000	\$143.30	72, 148	673372121507	O6381000	\$143.30	72, 148	673372121507
O6381250	\$149.30	72, 148	673372121514	O6381250	\$149.30	72, 148	673372121514
O6381500	\$155.25	72, 148	673372121521	O6381500	\$155.25	72, 148	673372121521
O6700002	\$954.45	143	673372141246	O6700002	\$954.45	143	673372141246
O6700070	\$580.00	143	673372141253	O6700070	\$580.00	143	673372141253
O6700101	\$9.60	143	673372141260	O6700101	\$9.60	143	673372141260
O6700102	\$124.80	143	673372141277	O6700102	\$124.80	143	673372141277
<b>PRE-INSULATED PIPE</b>							
500002	\$15.55	85	N/A	500002	\$15.55	85	N/A
500003	\$17.85	85	N/A	500003	\$17.85	85	N/A
500004	\$24.15	85	N/A	500004	\$24.15	85	N/A
500005	\$28.75	85	N/A	500005	\$28.75	85	N/A
500006	\$31.05	85	N/A	500006	\$31.05	85	N/A
500007	\$40.25	85	N/A	500007	\$40.25	85	N/A
500008	\$47.35	85	N/A	500008	\$47.35	85	N/A
500009	\$51.80	85	N/A	500009	\$51.80	85	N/A
500042	\$10.55	86	N/A	500042	\$10.55	86	N/A
500043	\$12.10	86	N/A	500043	\$12.10	86	N/A
500044	\$16.65	86	N/A	500044	\$16.65	86	N/A
500046	\$18.40	86	N/A	500046	\$18.40	86	N/A
500047	\$20.15	86	N/A	500047	\$20.15	86	N/A
500047	\$21.85	86	N/A	500047	\$21.85	86	N/A
500048	\$29.90	86	N/A	500048	\$29.90	86	N/A
500049	\$36.80	86	N/A	500049	\$36.80	86	N/A

Part No.	List Price	Page	UPC Code	Part No.	List Price	Page	UPC Code
A9013023	\$780.00	30	673372191852	A9013023	\$780.00	30	673372191852
A9013024	\$1,025.00	30	673372191869	A9013024	\$1,025.00	30	673372191869
A9013030	\$118.00	31	673372175197	A9013030	\$118.00	31	673372175197
A9013040	\$61.00	D	673372175203	A9013040	\$61.00	D	673372175203
A9013051	\$325.00	31	673372191241	A9013051	\$325.00	31	673372191241
A9013052	\$2,035.00	31	673372185844	A9013052	\$2,035.00	31	673372185844
A9013053	\$52.00	E	672372220866	A9013053	\$52.00	E	672372220866
A9013098	\$285.00	E	673372219075	A9013098	\$285.00	E	673372219075
A9013099	\$485.00	E	673372219068	A9013099	\$485.00	E	673372219068
A9014000	\$1,145.00	B	673372175319	A9014000	\$1,145.00	B	673372175319
A9030001	\$9.65	32	673372211666	A9030001	\$9.65	32	673372211666
A9030003	\$13.90	32	673372211703	A9030003	\$13.90	32	673372211703
A9030007	\$20.30	32	673372211734	A9030007	\$20.30	32	673372211734
A9030015	\$36.45	32	673372211772	A9030015	\$36.45	32	673372211772
A9030100	\$331.20	32	673372211689	A9030100	\$331.20	32	673372211689
A9030111	\$106.55	32	673372211680	A9030111	\$106.55	32	673372211680
A9030200	\$96.30	32	673372211758	A9030200	\$96.30	32	673372211758
A9030300	\$184.85	32	673372211796	A9030300	\$184.85	32	673372211796
A9031000	\$333.75	32	673372211697	A9031000	\$333.75	32	673372211697
A9060001	\$35.00	F	673372175217	A9060001	\$35.00	F	673372175217
A9060002	\$46.00	F	673372175227	A9060002	\$46.00	F	673372175227
A9063020	\$75.00	30	673372175234	A9063020	\$75.00	30	673372175234
A9070000	\$2,995.00	F	673372216265	A9070000	\$2,995.00	F	673372216265
A9090000	\$600.00	F	673372220888	A9090000	\$600.00	F	673372220888
D6100500	\$46.95	73	673372135658	D6100500	\$46.95	73	673372135658
D6100625	\$46.95	73	673372135641	D6100625	\$46.95	73	673372135641
D6100750	\$49.95	73	673372135665	D6100750	\$49.95	73	673372

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