

Brass Manifold Combination Adapter/Fitting Adapter

Submittal Information
Revision B: April 29, 2013

Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

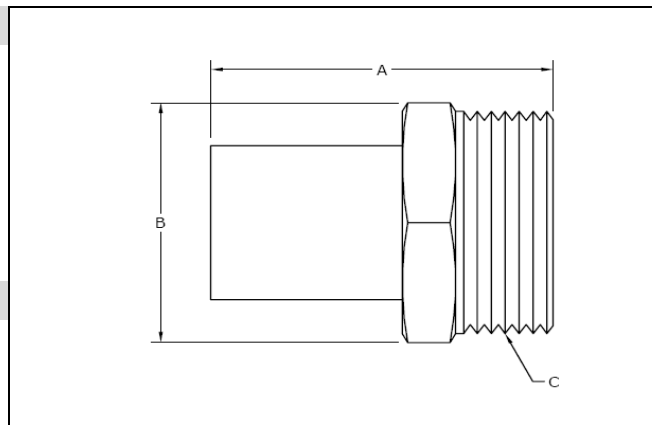
Submitted By:

Manufacturer's Representative:

Approved By:

Technical Data

Material: UNS C36000 per ASTM B16/B16M
Maximum Temperature (no pressure): 220°F (104°C)
Maximum Pressure: 125 psi



Product Information and Application Use

The Uponor Brass Manifold Combination Adapter/Fitting Adapter connects Uponor TruFLOW™ and Engineered Polymer (EP) Heating Manifolds to copper connections in radiant heating and cooling applications.

✓ Description	Part Number	A	B	C	Weight
Brass Manifold Adapter, R32 x ¾" Adapter or 1" Fitting Adapter	A4143210	2.24"	1.75"	R32	0.620 lbs.
Brass Manifold Adapter, R32 x 1" Adapter or 1¼" Fitting Adapter	A4133210	1.98"	1.75"	R32	0.620 lbs.
Brass Manifold Adapter, R32 x 1¼" Adapter or 1½" Fitting Adapter	A4123215	2.25"	1.75"	R32	0.625 lbs.

Installation

R32 threads into the Uponor TruFLOW and EP Heating Manifolds. Copper sweats to adapter or fitting adapter. For more information, refer to the Uponor Radiant Installation Handbook.

Standards

ASTM F877

Codes

N/A

Listings

NSF-rfh; R32: ISO 228-G 1¼" B

Related Applications

Radiant Heating and Cooling Systems

Contact Information

Uponor, Inc.
5925 148th Street West
Apple Valley, MN 55124 USA
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Fax: 952.891.2008
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Uponor Ltd.
2000 Argentia Road, Plaza 1, Suite 200
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TruFLOW™ Classic Manifold Assembly

Submittal Information
Revision F: March 24, 2014



Project Information

Job Name:

Location: _____ Part No. Ordered: _____

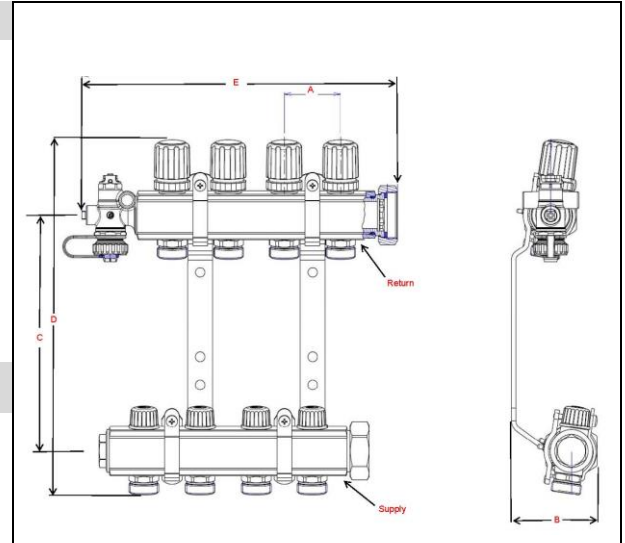
Engineer: _____ Date Submitted: _____

Contractor: _____ Submitted By: _____

Manufacturer's Representative: _____ Approved By: _____

Technical Data

Material:	UNS C38500 Brass
Manifold Body Size (I.D.):	1½"
Loop Cv (flow with valve wide open):	1.9 Cv
Manifold Body Threaded Connections:	ISO 228-G 1¼" (R32)
Manifold Loop Threaded Connections:	ISO 228-G ¾" (R20)
Maximum Working Pressure:	145 psi (10 bar)
Maximum Fluid Temperature:	220°F (104°C)
Maximum Fluid Flow Rate:	21.0 gpm



Product Information and Application Use

The Uponor TruFLOW™ Classic Manifold system comes fully assembled. The manifold is mounted on a durable bracket with an end cap on the supply manifold and an end cap with vent and drain on the return manifold. R32 unions on the inlet side of the manifolds allow connections to any manifold adapters offered by Uponor. Flow balancing is controlled through manifold adjustments to the balancing valve on the supply manifold.

✓	Description	Part Number	A	B	C	D	E	Weight
	TruFLOW Classic Manifold Assembly, B&I, 2-loop	A2610200	1.94"	3.46"	8.25"	12.60"	7.83"	6.37 lbs.
	TruFLOW Classic Manifold Assembly, B&I, 3-Loop	A2610300	1.94"	3.46"	8.25"	12.60"	10.34"	8.94 lbs.
	TruFLOW Classic Manifold Assembly, B&I, 4-Loop	A2610400	1.94"	3.46"	8.25"	12.60"	11.82"	10.71 lbs.
	TruFLOW Classic Manifold Assembly, B&I, 5-Loop	A2610500	1.94"	3.46"	8.25"	12.60"	14.40"	13.70 lbs.
	TruFLOW Classic Manifold Assembly, B&I, 6-Loop	A2610600	1.94"	3.46"	8.25"	12.60"	16.16"	14.32 lbs.
	TruFLOW Classic Manifold Assembly, B&I, 7-Loop	A2610700	1.94"	3.46"	8.25"	12.60"	17.80"	16.11 lbs.
	TruFLOW Classic Manifold Assembly, B&I, 8-Loop	A2610800	1.94"	3.46"	8.25"	12.60"	20.30"	17.89 lbs.
	TruFLOW Classic Manifold Assembly, B&I, 10-Loop	A2611000	1.94"	3.46"	8.25"	12.60"	23.14"	22.85 lbs.
	TruFLOW Classic Manifold Assembly, B&I, 12-Loop	A2611200	1.94"	3.46"	8.25"	12.60"	27.80"	24.69 lbs.

Installation

TruFLOW Classic manifolds are completely assembled and ready for installation right out of the box. Use the TruFLOW Balancing Hex Key (A2620002) on the internal balancing valves of the supply manifold. Manifold is shipped with the appropriate number of TruFLOW Manifold Actuator Adapters (A2630028).

Accessories and Replacement Parts

A2610020: TruFLOW Loop Thermometer	A2620002: TruFLOW Balancing Hex Key	A2631250: TruFLOW Manifold S&R Ball Valves
A2610100: TruFLOW Manifold Extension Kit	A2400032: Basic End Cap Gasket, spare part, R32	A2631251: Manifold S&R Ball Valves with Temperature Gauges, set of 2
A3010522: Thermal Actuator, 4-wire	A2620008: Replacement O-ring for 1¼" BSP Connection	A2631252: Manifold S&R Ball Valves, set of 2
A3020416: Thermal Actuator, 2-wire	A2620009: Replacement O-ring for TruFLOW Temperature/Flow Meter	A2640027: TruFLOW Visual Flow Meter, 0.25 to 2.0 gpm
A2620021: TruFLOW Classic Manifold Mounting Bracket, single bracket		

Standards

ASTM F877

Codes

IMC; UMC; NBC of Canada

Listings

ESR-1529; NSF-RFH

Related Applications

Radiant Heating and Cooling Systems
Snow and Ice Melting Systems
Permafrost Protection Systems
Turf Conditioning Systems

Contact Information

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TruFLOW™ Jr. Assembly with Balancing Valves and Valveless

Submittal Information
Revision C: Sept. 28, 2012

Project Information

Job Name:

Location:

Engineer:

Contractor:

Manufacturer's Representative:

Part No. Ordered:

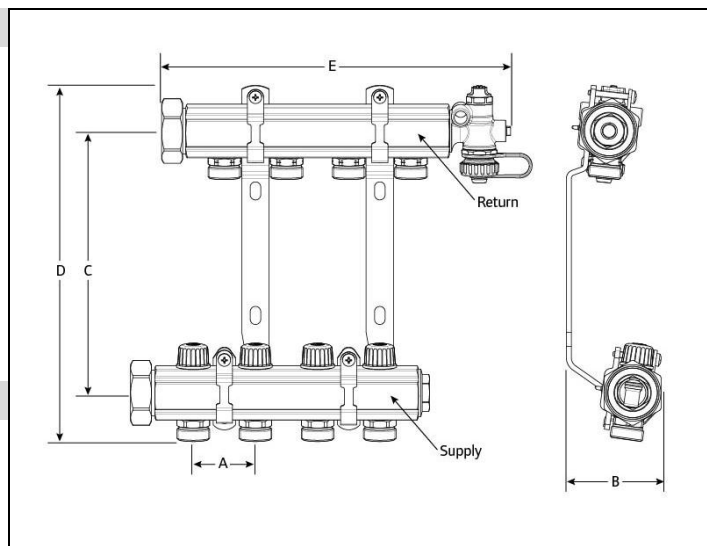
Date Submitted:

Submitted By:

Approved By:

Technical Data

Material:	UNS C3850 Brass
Manifold Body Size (I.D.):	1¼"
Loop Cv (valve wide open):	1.9
Manifold Body-threaded Connections:	R32
Manifold Loop-threaded Connections:	R20
Maximum Working Pressure:	145 psi
Maximum Fluid Temperature:	220°F (104°C)
Maximum Fluid Flow Rate:	14.0 gpm



Product Information and Application Use

The TruFLOW™ Jr. Assembly with Balancing Valves and Valveless is fully assembled and ready for installation. Use the TruFLOW Balancing Hex Key on the internal balancing valves of the supply manifold to balance the loops across the manifold. The manifold body ends have R32 unions and the loop outlets have R20 male threads.

✓ Description	Part Number	A	B	C	D	E	Weight
TruFLOW Jr. Assembly, Balancing Valves and Valveless, 2-loop	A2660200	1.97"	3.00"	8.25"	11.41"	7.60"	5.20 lbs.
TruFLOW Jr. Assembly, Balancing Valves and Valveless, 3-loop	A2660300	1.97"	3.00"	8.25"	11.41"	9.50"	7.20 lbs.
TruFLOW Jr. Assembly, Balancing Valves and Valveless, 4-loop	A2660400	1.97"	3.00"	8.25"	11.41"	11.50"	9.60 lbs.
TruFLOW Jr. Assembly, Balancing Valves and Valveless, 5-loop	A2660500	1.97"	3.00"	8.25"	11.41"	13.50"	11.50 lbs.
TruFLOW Jr. Assembly, Balancing Valves and Valveless, 6-loop	A2660600	1.97"	3.00"	8.25"	11.41"	15.50"	12.80 lbs.
TruFLOW Jr. Assembly, Balancing Valves and Valveless, 7-loop	A2660700	1.97"	3.00"	8.25"	11.41"	17.40"	14.10 lbs.
TruFLOW Jr. Assembly, Balancing Valves and Valveless, 8-loop	A2660800	1.97"	3.00"	8.25"	11.41"	19.30"	15.20 lbs.

Installation

TruFLOW Jr. Manifolds are fully assembled ready for installation. The TruFLOW Balancing Hex Key is used on the internal balancing valves of the supply manifold. Refer to the Uponor TruFLOW Jr. Manifold Instruction Sheet for further information.

Standards

ASTM F877; R32: ISO 228-G 1¼; R20: ISO 228-G ¾ B

Codes

UMC; IMC; IRC; NPC of Canada

Listings

NSF-rfh

ACCESSORIES

TruFLOW Jr. Manifold Bracket (A2640006)

Related Applications

Uponor Radiant Heating and Cooling Systems

Contact Information

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TruFLOW™ Jr. Assembly with Balancing and Isolation Valves

Submittal Information
Revision D: March 24, 2014

Project Information

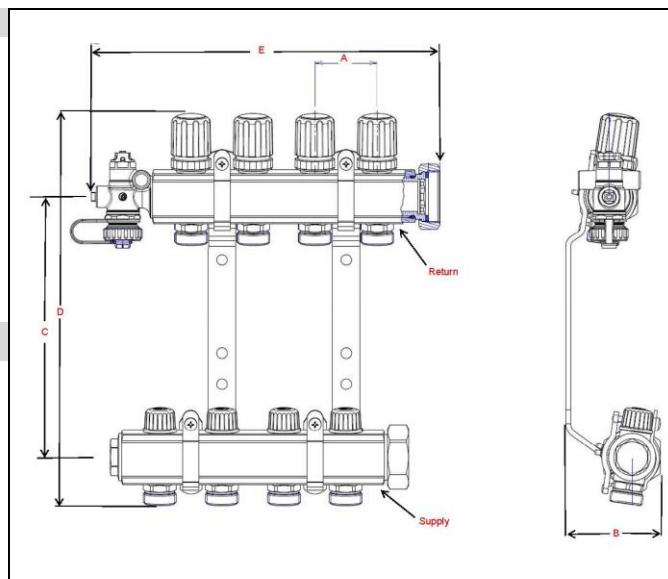
Job Name:	
Location:	Part No. Ordered:
Engineer:	Date Submitted:
Contractor:	Submitted By:
Manufacturer's Representative:	Approved By:

Technical Data

Material:	UNS C3850 Brass
Manifold Body Size (I.D.):	1¼"
Loop Cv (valve wide open):	1.9
Manifold Body-threaded Connections:	R32
Manifold Loop-threaded Connections:	R20
Maximum Working Pressure:	145 psi
Maximum Fluid Temperature:	220°F (104°C)
Maximum Fluid Flow Rate:	14.0 gpm

Product Information and Application Use

The TruFLOW™ Jr. Assembly with Balancing and Isolation Valves comes fully assembled and ready for installation. Use the TruFLOW Balancing Hex Key on the internal balancing valves of the supply manifold to balance the loops across the manifold. The TruFLOW Jr. Manifold with Isolation Valves allows quick isolation of the loop by turning the black cap on the top of the manifold. For multiple zoning on the manifold, the black caps are removed and replaced with the Uponor Thermal Actuators or Motorized Valve Actuators (MVAs). The manifold assembly is shipped with the appropriate number of TruFLOW Manifold Actuator Adapters. The manifold body ends have R32 unions and the loop outlets have R20 male threads.



✓ Description	Part Number	A	B	C	D	E	Weight
TruFLOW Jr. Assembly, B&I, 2-loop	A2660201	1.97"	3.00"	8.25"	12.40"	7.60"	5.78 lbs.
TruFLOW Jr. Assembly, B&I, 3-loop	A2660301	1.97"	3.00"	8.25"	12.40"	9.50"	7.86 lbs.
TruFLOW Jr. Assembly, B&I, 4-loop	A2660401	1.97"	3.00"	8.25"	12.40"	11.50"	9.95 lbs.
TruFLOW Jr. Assembly, B&I, 5-loop	A2660501	1.97"	3.00"	8.25"	12.40"	13.50"	12.67 lbs.
TruFLOW Jr. Assembly, B&I, 6-loop	A2660601	1.97"	3.00"	8.25"	12.40"	15.50"	14.76 lbs.
TruFLOW Jr. Assembly, B&I, 7-loop	A2660701	1.97"	3.00"	8.25"	12.40"	17.40"	16.84 lbs.
TruFLOW Jr. Assembly, B&I, 8-loop	A2660801	1.97"	3.00"	8.25"	12.40"	19.30"	18.93 lbs.

Installation

TruFLOW Jr. Manifolds are fully assembled ready for installation. The TruFLOW Balancing Hex Key is used on the internal balancing valves of the supply manifold. Manifold is shipped with the appropriate number of actuator adapters (A2630028). Refer to the Uponor TruFLOW Jr. Manifold Instruction Sheet for further information.

Standards

ASTM F877; R32: ISO 228-G 1¼; R20: ISO 228-G ¾ B

Codes

UMC; IMC; IRC; NPC of Canada

Listings

NSF-rfh

Accessories

A2610020: TruFLOW Loop Thermometer	A2620002: TruFLOW Balancing Hex Key	A2631251: Manifold S&R Ball Valves with Temperature Gauges, set of 2
A3010522: Thermal Actuator, 4-wire	A2620009: Replacement O-ring for TruFLOW Temperature/Flow Meter	A2631252: Manifold S&R Ball Valves, set of 2
A3020416: Thermal Actuator, 2-wire	A2631250: TruFLOW Jr. Manifold S&R Ball Valves	A2640015: TruFLOW Visual Flow Meter, 0.15 to 0.8 gpm
A2640021: TruFLOW Jr. Manifold Mounting Bracket, single bracket		

Related Applications

Uponor Radiant Heating and Cooling Systems

Contact Information

Uponor, Inc.
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www.uponorpro.com

QS-style Compression Fitting Assembly

Submittal Information
Revision B: July 22, 2010

Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

Submitted By:

Manufacturer's Representative:

Approved By:

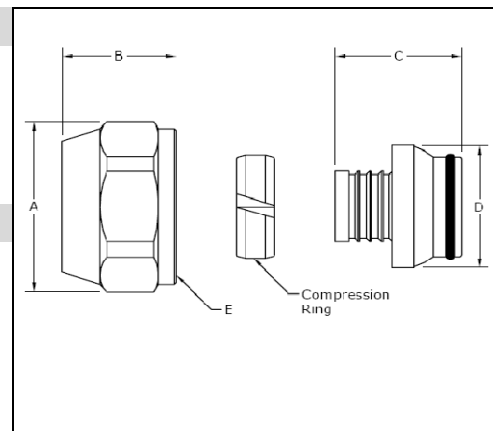
Technical Data

Fitting:	CA 360 Brass
O-ring:	Nitrile (Buna N)
Maximum Temperature (no pressure):	220°F (104°C)
Maximum Pressure:	125 psi (8.6 bar)

Product Information and Application Use

The Uponor R20 Compression Fitting Assembly threads onto manifold loop outlets. This R20 QS (Quick Seal) compression fitting connects Wirsbo hePEX™ or Uponor AquaPEX® tubing to the manifold in radiant heating applications and is designed for 5/16", 3/8", 1/2" or 5/8" tubing.

The R25 QS compression fitting does not directly thread onto the manifold, but onto other R25 connections, and is designed for use with 5/8" and 3/4" tubing only.



✓ Description	Part Number	A	B	C	D	E	Weight
5/16" QS-style Compression Fitting Assembly, R20 thread	A4020313	1.37"	1.00"	0.95"	0.95"	R20	0.26 lbs.
3/8" QS-style Compression Fitting Assembly, R20 thread	A4020375	1.37"	1.00"	0.95"	0.95"	R20	0.23 lbs.
1/2" QS-style Compression Fitting Assembly, R20 thread	A4020500	1.37"	1.00"	0.95"	0.95"	R20	0.21 lbs.
5/8" QS-style Compression Fitting Assembly, R20 thread	A4020625	1.37"	1.00"	0.95"	0.95"	R20	0.29 lbs.
5/8" QS-style Compression Fitting Assembly, R25 thread	A4030625	1.50"	1.00"	0.98"	1.18"	R25	0.30 lbs.
3/4" QS-style Compression Fitting Assembly, R25 thread	A4020750	1.62"	1.00"	1.00"	1.18"	R25	0.33 lbs.

Installation

The R20-threaded Compression Fitting connects to Uponor manifold loop outlets. The compression end enables direct connection to Wirsbo hePEX tubing. Use the R25-threaded Compression Fitting for other R25 connections. For more information, refer to the Radiant Floor Heating Installation Handbook.

Accessories and Replacement Parts

A4021116: Replacement O-ring for insert, R20	A4160375: 3/8" Compression Ring	A4160625: 5/8" Compression Ring
A4021000: Replacement O-ring for insert, R25	A4160500: 1/2" Compression Ring	A4160750: 3/4" Compression Ring
A4160313: 5/16" Compression Ring		

Standards

ASTM F877

Codes

N/A

Listings

NSF-rfh; R20: ISO 228-G 3/4 B; R25: ISO 228-G 1 B

Related Applications

Radiant Heating and Cooling Systems
Snow and Ice Melting Systems
Permafrost Protection Systems
Turf Conditioning Systems

Contact Information

Uponor, Inc.
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Apple Valley, MN 55124 USA
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QS-style Conversion Nipple

Submittal Information
Revision B: July 21, 2010

Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

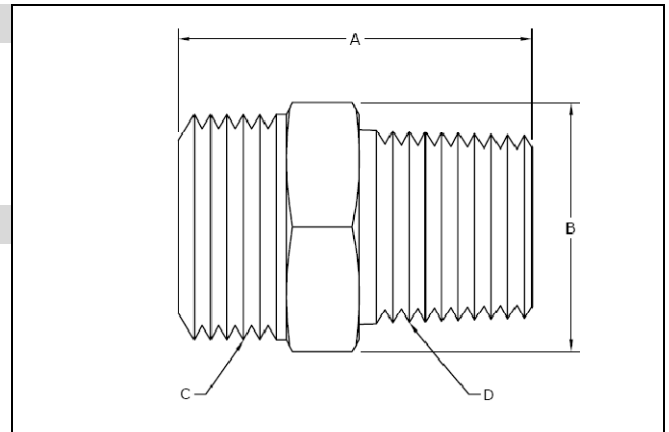
Submitted By:

Manufacturer's Representative:

Approved By:

Technical Data

Fitting: CA 360 Brass
Maximum Temperature (no pressure): 220°F (104°C)
Maximum Pressure: 125 psi (8.6 bar)



Product Information and Application Use

The Uponor QS-style Conversion Nipple fittings are available in various thread options and used with compression fittings to adapt to male national pipe thread (MNPT) in hydronic heating applications. Use the QS-style Conversion Nipple and the appropriate fitting to 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.

✓ Description	Part Number	A	B	C	D	Weight
QS-style Conversion Nipple, R20 x $\frac{1}{2}$ " NPT	A4322050	1.54"	1.0625" HEX	R20	0.50" NPT	0.18 lbs.
QS-style Conversion Nipple, R20 x $\frac{3}{4}$ " NPT	A4322075	1.67"	1.0625" HEX	R20	0.75" NPT	0.25 lbs.
QS-style Conversion Nipple, R25 x $\frac{3}{4}$ " NPT (for $\frac{3}{4}$ " tubing only)	A4322575	1.75"	1.3750" HEX	R25	0.75" NPT	0.30 lbs.
QS-style Conversion Nipple, R25 x 1" NPT, (for $\frac{3}{4}$ " and $\frac{5}{8}$ " tubing only)	A4322510	1.87"	1.3750" HEX	R25	1.00" NPT	0.25 lbs.

Installation

The corresponding compression fitting threads onto the R20 or R25 thread to adapt to MNPT. For more information, refer to the Radiant Floor Heating Installation Handbook.

Standards

ASTM F877

Codes

N/A

Listings

NSF-rfh; R20: ISO 228-G $\frac{3}{4}$ B; R25: ISO 228-G 1 B

Related Applications

Radiant Heating and Cooling Systems
Snow and Ice Melting Systems
Permafrost Protection Systems
Turf Conditioning Systems

Contact Information

Uponor, Inc.
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www.uponor.ca

QS-style Copper Adapter

Submittal Information

Revision B: July 22, 2010

Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

Submitted By:

Manufacturer's Representative:

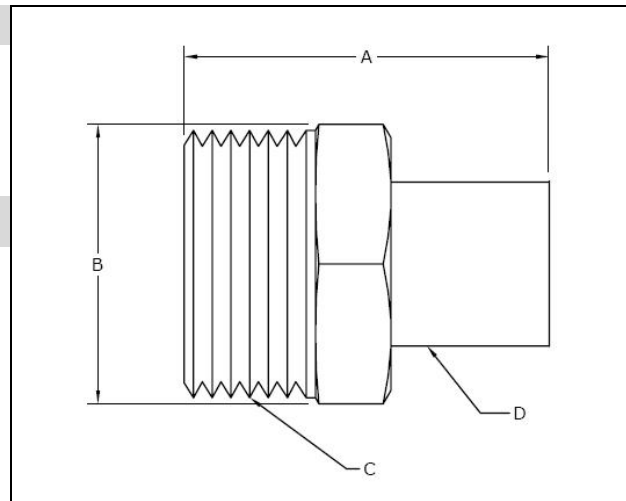
Approved By:

Technical Data

Material:	CA 360 Brass
Maximum Temperature (no pressure):	220°F (104°C)
Maximum Pressure:	125 psi (8.6 bar)

Product Information and Application Use

The Uponor QS-style Copper Adapters, combined with the appropriate QS-style Fitting Assembly, transition Wirsbo hePEX™ or Uponor AquaPEX® tubing to ½" and ¾" copper pipe in hydronic heating applications.



✓	Description	Part Number	A	B	C	D	Weight
	QS-style Copper Adapter, R20 x ½" Copper	A4332050	1.30"	1.0625" HEX	R20	0.50" CU	0.14 lbs.
	QS-style Copper Adapter, R20 x ¾" Copper	A4332075	1.40"	1.0625" HEX	R20	0.75" CU	0.14 lbs.
	QS-style Copper Adapter, R25 x ¾" Copper (for ¾" and ⅝" tubing only)	A4332575	1.94"	1.3750" HEX	R25	0.75" CU	0.30 lbs.

Installation

The corresponding compression fitting threads onto the R20 or R25 thread to adapt to copper. For additional information, refer to the Uponor Radiant Floor Heating Installation Handbook.

Standards

ASTM F877

Codes

R20: ISO 228-G ¾ B; R25: ISO 222-G 1 B

Listings

NSF-rfh

Related Applications

Radiant Heating and Cooling Systems
Snow and Ice Melting Systems
Permafrost Protection Systems
Turf Conditioning Systems

Contact Information

Uponor, Inc.
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Manifold Supply and Return Ball Valves

Submittal Information
Revision D: May 10, 2013

Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

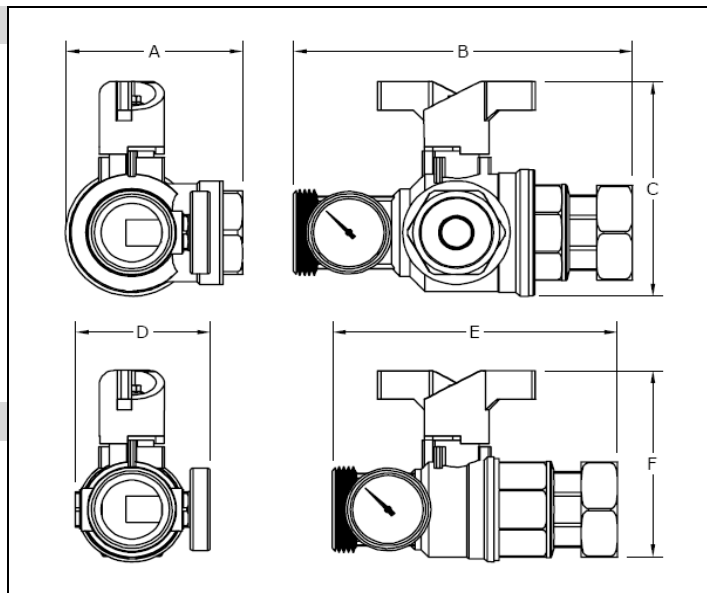
Submitted By:

Manufacturer's Representative:

Approved By:

Technical Data

Material:	UNS C38500 Brass
Maximum Working Temperature/Pressure:	220°F (104°C) at 145 psi
Connection:	R32
C _v Values:	
A2631250	Supply: 15.6 Return: 38.5
A2631251	Supply: 38.5 Return: 38.5
A2631252	Supply: 23.8 Return: 23.8



Product Information and Application Use

Uponor Manifold Supply and Return Ball Valves are R32 male by R32 female that fit directly on Uponor TruFLOW™ and Engineered Polymer (EP) Heating Manifolds. A2631250 and A2631251 come standard with a temperature gauge for easy visual check of supply temperatures. A2631250 also features a built-in filter ball which has isolation within the valve to facilitate cleaning of the filter.

✓ Description

✓ Description	Part Number	A	B	C	D	E	F	Weight
Manifold Supply and Return Ball Valves with Filter and Temperature Gauge, set of 2	A2631250	3.20"	6.00"	3.80"	2.70"	5.00"	3.50"	5.50 lbs.
Manifold Supply and Return Ball Valves with Temperature Gauges, set of 2	A2631251	N/A	N/A	N/A	2.70"	5.00"	3.50"	4.450 lbs.
Manifold Supply and Return Ball Valves, set of 2	A2631252	N/A	N/A	N/A	2.25"	2.75"	3.02"	2.875 lbs.

Installation

Thread the supply ball valve into the supply manifold and the return ball valve into the return manifold. Close the valve and unscrew the filter inspection lid to clean the filter ball (if applicable). Remove the clip that holds the filter and remove the filter. Remove debris from the filter and reinsert the filter in its seat. Tighten the lid and re-open the valve. Use silicone oil as required. Accessories: Temperature Gauge with Well, replacement part (A2610120).

Standards

ASTM F877

Codes

N/A

Listings

NSF-rfh; R32: ISO 228-G 1¼; ISO 228-G 1¼" B

Related Applications

Radiant Heating and Cooling Systems

Contact Information

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TruFLOW™ Manifold with Balancing Valves

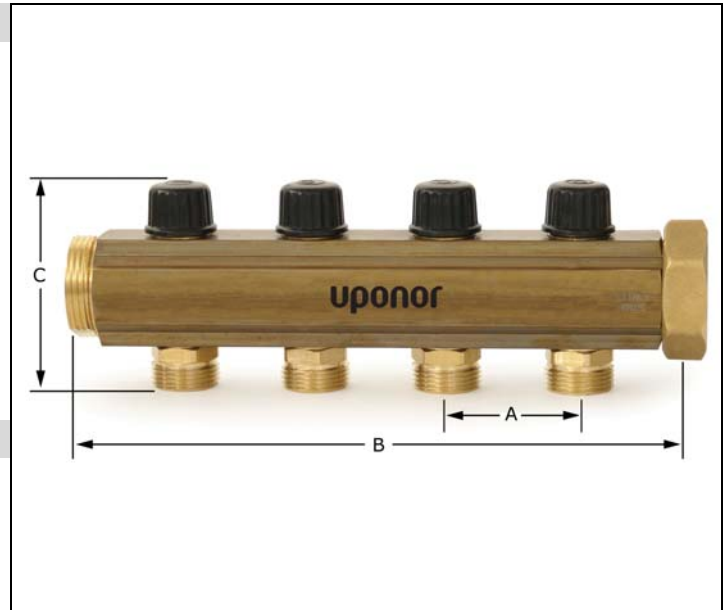
Submittal Information
Revision B: July 17, 2009

Project Information

Job Name:	
Location:	Part No. Ordered:
Engineer:	Date Submitted:
Contractor:	Submitted By:
Manufacturer's Representative:	Approved By:

Technical Data

Material:	UNS C3850 Brass
Manifold Body Size (I.D.):	1¼"
Loop Cv (valve wide open):	1.9
Manifold Body Threaded Connections:	R32
Manifold Loop Threaded Connections:	R20
Maximum Working Pressure:	145 psi
Maximum Fluid Temperature:	220°F (104°C)
Maximum Fluid Flow Rate:	14.0 gpm



Product Information and Application Use

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.

✓ Description	Part Number	A	B	C	Weight
TruFLOW Jr. Balancing Valves, 2-loop	A2663212	1.97"	5.66"	3.07"	2.40 lbs.
TruFLOW Jr. Balancing Valves, 3-loop	A2663213	1.97"	7.63"	3.07"	3.20 lbs.
TruFLOW Jr. Balancing Valves, 4-loop	A2663214	1.97"	9.60"	3.07"	3.90 lbs.

Installation

For more information, refer to the Uponor TruFLOW Jr. Manifold Instruction Sheet. Accessories: TruFLOW Jr. Manifold Bracket (A2640006); End Cap with Vent (A2803250).

Standards

ASTM F877; R32: ISO 228-G 1¼; R20: SO 228-G ¾ B

Codes

N/A

Listings

NSF-rfh

Related Applications

Radiant Heating and Cooling Systems
Snow and Ice Melting Systems
Permafrost Prevention Systems
Turf Conditioning Systems

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TruFLOW™ Manifold Loop Temperature Gauge

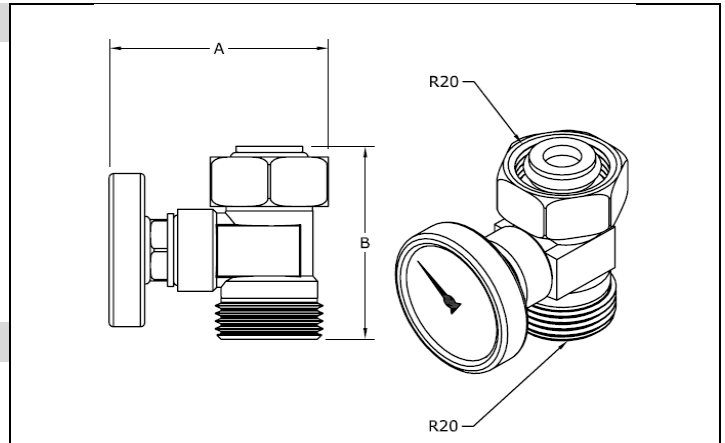
Submittal Information
Revision B: April 29, 2013

Project Information

Job Name:	
Location:	Part No. Ordered:
Engineer:	Date Submitted:
Contractor:	Submitted By:
Manufacturer's Representative:	Approved By:

Technical Data

Material:	UNS C3850 Brass
Maximum Working Pressure:	145 psi
Maximum Temperature:	220°F (104°C)
Connection:	R20 QS-style



Product Information and Application Use

TruFLOW™ Manifold Loop Temperature Gauge comes with a QS20 female union on one end and a QS20 male on the other end. Part includes temperature gauge well and removable temperature gauge.

✓ Description	Part Number	A	B	Weight
TruFLOW Manifold Loop Temperature Gauge	A2610020	2.40"	1.97"	0.5 lbs.
Temperature Gauge with Well, replacement part	A2610120	1.57"	1.57"	0.1 lbs.

Installation

Install the TruFLOW Manifold Loop Temperature Gauge Nipple on the R20 loop outlet on the return side of the TruFLOW Manifold assembly. Install the desired fitting assembly on the outlet of the TruFLOW Manifold Loop Temperature Gauge Nipple. Use only TruFLOW Manifolds. Accessories: Temperature Gauge with Well, replacement part (A2610120). Refer to the Uponor Radiant Installation Handbook for additional information.

Standards

ASTM F877; R20 M: ISO 228-G ¾" B

Codes

N/A

Listings

NSF-rfh

Related Applications

Radiant Heating and Cooling Systems

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TruFLOW™ Classic Manifold Extension Kit



Submittal Information
Revision B: May 30, 2012

Project Information

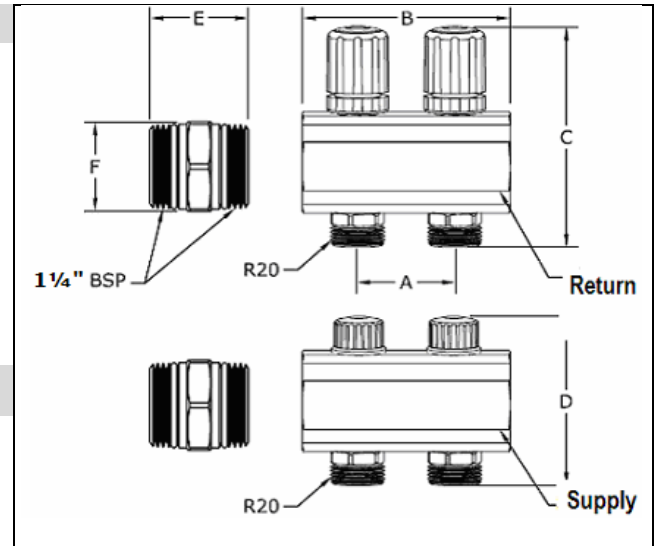
Job Name:	
Location:	Part No. Ordered:
Engineer:	Date Submitted:
Contractor:	Submitted By:
Manufacturer's Representative:	Approved By:

Technical Data

Material:	UNS C38500 Brass
Manifold Body Size (I.D.):	1½"
Loop Cv (flow with valve wide open):	1.9 Cv
Manifold Body Threaded Connections:	ISO 228-G 1¼" (R32)
Manifold Loop Threaded Connections:	ISO 228-G ¾" (R20)
Maximum Working Pressure:	145 psi (1,000 kPa)
Maximum Fluid Temperature:	220°F (104°C)
Maximum Fluid Flow Rate:	21.0 gpm

Product Information and Application Use

The Uponor TruFLOW™ Classic Manifold Extension Kit is designed for easy, inline 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 (A2620007), included in the kit and also sold separately, or similar silicone lubricant on the male threads to ease installation.



✓	Description	Part Number	A	B	C	D	E	F	Weight
	TruFLOW Classic Manifold Extension Kit, 2 loops	A2610100	1.94"	4.61"	4.46"	3.73"	N/A	N/A	5.50 lbs.
	TruFLOW Classic Manifold Coupling Nipple, 1¼" BSP x 1¼" BSP	A2621010	N/A	N/A	N/A	N/A	1.42"	1.76"	0.30 lbs.

Installation

Use the supplied TruFLOW Classic Manifold Coupling Nipple to attach the TruFLOW Manifold Extension Kit to the desired TruFLOW Manifold. Use the TruFLOW Balancing Hex Key (A2620002) on the internal balancing valves of the supply manifold. Manifold is shipped with the appropriate number of TruFLOW Manifold Actuator Adapters (A2630028). Refer to the TruFLOW Manifold Instruction Sheet for further information.

Additional Accessories and Replacement Parts

A2610020: TruFLOW Loop Thermometer	A2620002: TruFLOW Balancing Hex Key	A2620009: Replacement O-ring for TruFLOW/Temperature Meter
A2631250: TruFLOW Manifold S&R Ball Valves	A2400032: Basic End Cap Gasket, spare part, R32	A2620008: Replacement O-ring for 1¼" BSP Connection
A3010522: Thermal Actuator	A2650004: Replacement O-ring for 1½" BSP Connection	
A2620006: TruFLOW Classic Manifold Bracket	A2620007: Silicone Oil, 1.76 oz. bottle, optional part	

Standards

ASTM F877; R20: ISO 228-G ¾" B

Codes

IMC; UMC; NBC of Canada

Listings

ESR-1529; NSF-RFH

Related Applications

Radiant Heating and Cooling Systems
Snow and Ice Melting Systems
Permafrost Protection Systems
Turf Conditioning Systems

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TruFLOW™ Classic Manifold Mounting Bracket

Submittal Information
Revision A: Feb. 11, 2014

Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

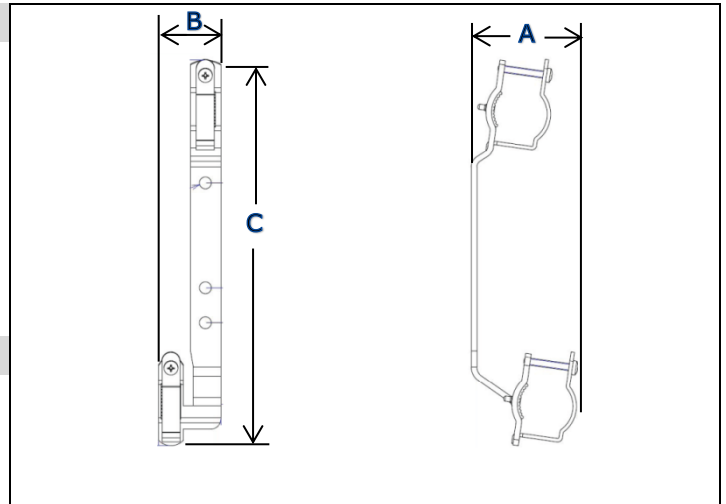
Submitted By:

Manufacturer's Representative:

Approved By:

Technical Data

Material: Metal



Product Information and Application Use

The TruFLOW™ Classic Manifold Mounting Bracket is used to mount the 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.

✓ Description

TruFLOW Classic Manifold Mounting Bracket, single bracket replacement part

Part Number

A2620021

A

3.36"

B

1.77"

C

10.88"

Weight

1.35 lbs.

Installation

Attach the Uponor TruFLOW Classic Manifold to the mounting bracket. Attach manifold and bracket assembly to the desired mounting surface. Use only with Uponor TruFLOW Classic Manifolds. Refer to the TruFLOW Classic Manifold Instruction Sheet for additional information.

Standards

N/A

Codes

N/A

Listings

N/A

Related Applications

Radiant Heating and Cooling Systems

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Two-wire Thermal Actuator for TruFLOW™ Manifolds

Submittal Information
Revision B: May 16, 2011

Project Information

Job Name:	
Location:	Part No. Ordered:
Engineer:	Date Submitted:
Contractor:	Submitted By:
Manufacturer's Representative:	Approved By:

Technical Data

Operating Voltage:	24VAC nominal
Operating Range:	22V to 28V
Maximum Close-off Pressure:	17 psi
Time to Open/Close:	3 to 5 minutes
Operating Current:	0.167A (167mA)



Product Information and Application Use

The Two-wire Thermal Actuator for TruFLOW™ Classic and Jr. Valved Manifolds is a slow-opening thermal actuator that mounts directly onto TruFLOW Classic and TruFLOW Jr. Valved Manifolds and connects to the Uponor Climate Cöntrol™ Zoning System C-55 Base Unit (A3601012). It provides individual loop flow control on a multi-zoned manifold.

✓ Description	Part Number	Height	Width	Depth	Weight
Two-wire Thermal Actuator (for TruFLOW Classic and Jr. Valved Manifolds)	A3030523	2.51"	1.58"	1.58"	0.22 lbs.

Installation

Mount directly onto the TruFLOW Classic or TruFLOW Jr. Valved Manifold. Refer to the Uponor Climate Cöntrol Zoning System Installation Guide for additional information.

Standards

Class II wiring

Codes

N/A

Listings

N/A

Related Applications

Radiant Heating and Cooling Systems
Snow and Ice Melting Systems
Permafrost Protection Systems
Turf Conditioning Systems

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ProPEX® Ring

Submittal Information
Revision E: May 29, 2013

Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

Submitted By:

Manufacturer's Representative:

Approved By:

Technical Data

Material: Engel-method Crosslinked Polyethylene (PEX-a)

Density: 926 to 940 kg/m³

Degree of crosslinking: 70% to 89%



Product Information and Application Use

Manufactured from PEX-a material, Uponor ProPEX® Rings are required to make a proper ProPEX connection.¹ The ProPEX Ring with Stop includes a leading edge chamfer and stop edge.

✓ Description	Part Number	Length	I.D.	O.D.	Weight
ProPEX Ring, 3/8"	Q4690302	0.54"	0.49"	0.74"	0.005 lbs.
ProPEX Ring with Stop, 1/2"	Q4690512	0.63"	0.63"	0.87"	0.006 lbs.
ProPEX Ring with Stop, 5/8"	Q4690625	0.79"	0.75"	1.00"	0.008 lbs.
ProPEX Ring with Stop, 3/4"	Q4690756	0.87"	0.88"	1.13"	0.012 lbs.
ProPEX Ring with Stop, 1"	Q4691000	1.10"	1.13"	1.42"	0.020 lbs.
ProPEX Ring with Stop, 1 1/4"	Q4691250	1.35"	1.38"	1.66"	0.030 lbs.
ProPEX Ring with Stop, 1 1/2"	Q4691500	1.61"	1.63"	1.91"	0.040 lbs.
ProPEX Ring with Stop, 2"	Q4692000	1.97"	2.14"	2.61"	0.133 lbs.

Installation

Square cut the Uponor ProPEX tubing. Remove excess material. Slide the ProPEX Ring over the end of the tubing (maximum 1/16" over-hang for rings without stop). When using the ProPEX Ring with Stop, slide the ring on the tubing with the chamfered edge first until the end of the tubing contacts the stop edge. Expand the tubing and ring. If using the ProPEX Manual Expander Tool, rotate the tool a quarter turn after each expansion to prevent the formation of grooves. Remove the expansion tool and fully seat the tubing and ring against the shoulder of the fitting. Make ProPEX connections at temperatures above 5°F/-15°C. For more information, refer to the AquaPEX® Professional Plumbing Installation Handbook, the AquaSAFE™ Fire Safety Installation Guide or the Uponor Radiant Installation Handbook.

Listings²

cNSFus-fs³; cNSFus-pw; cNSFus-rfh; cQAIus; UL; CSA; WH; ETL; PPI TR-4; ICC-ES; IAPMO; BMEC; CCMC

Codes

ICC; IPC; IMC; IRC; UPC; UMC; NSPC; HUD; UFGS; NPC of Canada; NBC of Canada

Standards

ANSI/NSF 14; ANSI/NSF 61; ASTM F876; ASTM F877; ASTM F1960; ASTM F2023; ASTM E84; CAN/ULC S102.2; ASTM E119/UL 263; CAN/ULC S101; ASTM E814/ULC S115; AWWA C904⁴; CSA B137.5; CSA B214; UL 1821³; ULC/ORD-C199P³

Related Applications

PEX-a Plumbing Systems
Radiant Heating and Cooling Systems
AquaSAFE Fire Safety Systems

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¹ProPEX® is a registered trademark of Uponor, Inc. ProPEX™ is a trademark of Uponor Ltd.

²Visit listing agency's website for complete information; ³For 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" tubing only; ⁴For 3/4" tubing and larger.

ProPEX® Manifold Straight Adapter

Submittal Information
Revision D: April 29, 2013

Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

Submitted By:

Manufacturer's Representative:

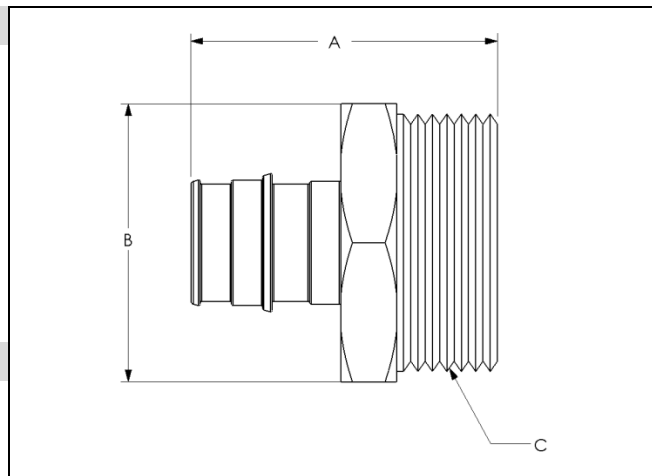
Approved By:

Technical Data

Material: UNS C36000 per ASTM B16/B16M or
UNS C37700 per ASTM F283/B283M

Maximum Temperature
(no pressure): 220°F (104°C)

Maximum Pressure: 125 psi



Product Information and Application Use

Uponor ProPEX® Manifold Straight Adapter threads into Uponor TruFLOW™ and Engineered Polymer (EP) Heating Manifolds to adapt to ProPEX connections in radiant heating and cooling applications.¹

✓ Description	Part Number	A	B	C	Weight
ProPEX Manifold Straight Adapter, R32 x ¾" ProPEX	Q4143275	1.93"	1.75"	R32	0.500 lbs.
ProPEX Manifold Straight Adapter, R32 x 1" ProPEX	Q4143210	2.17"	1.75"	R32	0.600 lbs.
ProPEX Manifold Straight Adapter, R32 x 1¼" ProPEX	Q4143213	2.50"	1.75"	R32	0.625 lbs.
ProPEX Manifold Straight Adapter, R32 x 1½" ProPEX	Q4143215	2.73"	1.75"	R32	0.650 lbs.

Installation

R32 threads into the Uponor TruFLOW and EP Heating Manifolds. ProPEX end enables direct contact to Uponor PEX-a tubing. For additional information, refer to the Uponor Radiant Floor Heating Installation Handbook.

Standards

ASTM F877; ASTM F1960

Codes

N/A

Listings

NSF-rfh; R32: ISO 228-G 1¼" B

Related Applications

Radiant Heating and Cooling Systems

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ProPEX[®] Manifold Elbow Adapter

Submittal Information
Revision C: April 29, 2013

Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

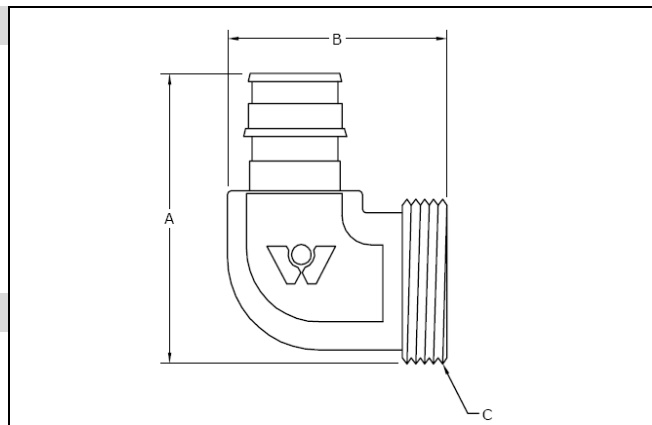
Submitted By:

Manufacturer's Representative:

Approved By:

Technical Data

Material: UNS C37700 per ASTM B283/B283M
Maximum Temperature (no pressure): 220°F (104°C)
Maximum Pressure: 125 psi



Product Information and Application Use

Uponor ProPEX[®] Manifold Elbow Adapter threads into Uponor TruFLOW[™] and Engineered Polymer (EP) Heating Manifolds to adapt to ProPEX connections in radiant heating and cooling applications.¹

✓ Description	Part Number	A	B	C	Weight
ProPEX Manifold Elbow Adapter, R32 x ¾" ProPEX	Q4153275	2.66"	2.16"	R32	0.600 lbs.
ProPEX Manifold Elbow Adapter, R32 x 1" ProPEX	Q4153210	2.90"	2.16"	R32	0.620 lbs.
ProPEX Manifold Elbow Adapter, R32 x 1¼" ProPEX	Q4153213	3.15"	2.50"	R32	0.890 lbs.
ProPEX Manifold Elbow Adapter, R32 x 1½" ProPEX	Q4153215	3.40"	2.50"	R32	0.915 lbs.

Installation

R32 threads into the Uponor TruFLOW and EP Heating Manifolds. ProPEX end enables direct, 90-degree contact to Uponor PEX-a tubing. For additional information, refer to the Uponor Radiant Floor Heating Installation Handbook.

Standards

ASTM F877; ASTM F1960

Codes

N/A

Listings

NSF-rfh; R32: ISO 228-G 1¼" B

Related Applications

Radiant Heating and Cooling Systems

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