



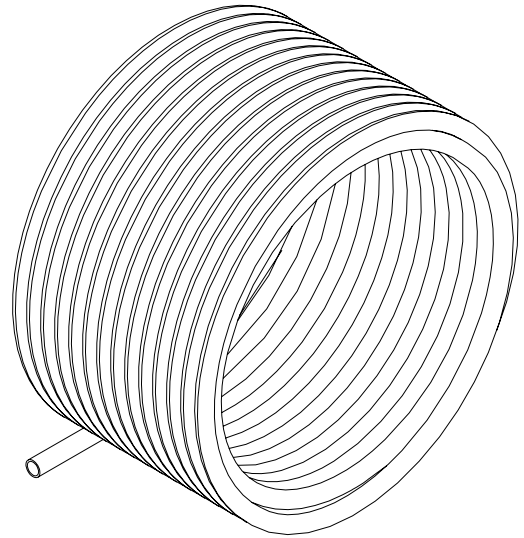
Zurn PEX Alumicor® Pex-Al-Pex - ZNPA183 New Product Announcement

May 2008

Zurn® announces the release of its new Alumicor® Pex-Al-Pex tubing and fitting system for radiant heat applications. The Alumicor tubing is manufactured to meet the requirements of ASTM F-1281 standards.

The five layer Alumicor tubing combines the advantages of metal tubing with PEX tubing for optimum performance. The metal aluminum layer provides an oxygen barrier to protect ferrous system components and allows the tubing to hold its shape when bent.

The Zurn Alumicor offering includes 1/2", 5/8", 3/4" and 1" sizes available in different lengths. The compression fitting offering will include adapters, couplings and tees. The necessary reamers and bending springs are also available.



See the attached product information for specific details:

Attachment 1: Pex-Al-Pex Alumicor® Product Offering

Attachment 2: QHPAP_X ZurnPEX Alumicor Tubing Specification Sheet

Attachment 3: QHPAPC_C ZurnPEX Alumicor Pex-Al-Pex Compression Coupling Specification Sheet

Attachment 4: QHPAPE_C ZurnPEX Alumicor Pex-Al-Pex Compression Elbow Specification Sheet

Attachment 5: QHPAPT_C ZurnPEX Alumicor Pex-Al-Pex Compression Tee Specification Sheet

Attachment 6: QHPAPMA_C ZurnPEX Alumicor Pex-Al-Pex Compression X Male Thread Adapter Specification Sheet

Attachment 7: QHPAPA_M ZurnPEX Alumicor Pex-Al-Pex Compression X Male Solder Adapter Specification Sheet

Attachment 8: QHPAPA_F ZurnPEX Alumicor Pex-Al-Pex Compression X Female Solder Adapter Specification Sheet

Attachment 9: ZPFN174 ZurnPEX Alumicor Pex-Al-Pex Compression Fitting Installation Instructions

Attachment 10: ZPFN178 ZurnPEX Alumicor External Bending Spring Installation Instructions

Attachment 11: ZPFN179 ZurnPEX Alumicor Internal Bending Spring Installation Instructions

Contact your local distributor or sales representative for additional information



Zurn PEX Alumicor Pex-Al-Pex - ZNPA183

New Product Announcement

Part Number	Description	List Price (USD)	Availability	Category
Q3PAP300X	1/2" x 300' Alumicor Pex-Al-Pex Coil	\$360.57	June '08	1
Q3PAP500X	1/2" x 500' Alumicor Pex-Al-Pex Coil	\$600.94	June '08	1
Q3PAP1000X	1/2" x 1000' Alumicor Pex-Al-Pex Coil	\$1,201.89	June '08	1
QJPAP300X	5/8" x 300' Alumicor Pex-Al-Pex Coil	\$502.54	June '08	1
Q4PAP300X	3/4" x 300' Alumicor Pex-Al-Pex Coil	\$735.00	June '08	1
Q4PAP500X	3/4" x 500' Alumicor Pex-Al-Pex Coil	\$1,225.00	June '08	1
Q4PAP1000X	3/4" x 1000' Alumicor Pex-Al-Pex Coil	\$2,450.00	June '08	1
Q5PAP100X	1" x 100' Alumicor Pex-Al-Pex Coil	\$397.00	June '08	1
Q5PAP500X	1" x 500' Alumicor Pex-Al-Pex Coil	\$1,985.00	June '08	1
QHPAPC33C	1/2" Pex-Al-Pex Compression Coupling	\$7.25	June '08	20
QHPAPCJJC	5/8" Pex-Al-Pex Compression Coupling	\$9.80	June '08	20
QHPAPC44C	3/4" Pex-Al-Pex Compression Coupling	\$14.50	June '08	20
QHPAPC55C	1" Pex-Al-Pex Compression Coupling	\$23.50	June '08	20
QHPAPE33C	1/2" Pex-Al-Pex Compression Elbow	\$8.80	June '08	20
QHPAPEJJC	5/8" Pex-Al-Pex Compression Elbow	\$10.70	June '08	20
QHPAPE44C	3/4" Pex-Al-Pex Compression Elbow	\$13.30	June '08	20
QHPAPE55C	1" Pex-Al-Pex Compression Elbow	\$22.55	June '08	20
QHPAPT333C	1/2" Pex-Al-Pex Compression Tee	\$14.30	June '08	20
QHPAPT444C	3/4" Pex-Al-Pex compression Tee	\$21.55	June '08	20
QHPAPT553C	1" x 1" x 1/2" Pex-Al-Pex Compression Tee	\$31.90	June '08	20
QHPAPT55JC	1" x 1" x 5/8" Pex-Al-Pex Compression Tee	\$32.40	June '08	20
QHPAPT554C	1" x 1" x 3/4" Pex-Al-Pex Compression Tee	\$33.55	June '08	20
QHPAPT555C	1" Pex-Al-Pex Compression Tee	\$36.85	June '08	20
QHPAPMA33C	1/2" Compression x 1/2" MNPT Pex-Al-Pex Adapter	\$5.75	June '08	20
QHPAPMA44C	3/4" Compression x 3/4" MNPT Pex-Al-Pex Adapter	\$10.90	June '08	20
QHPAPA33M	1/2" Compression x 1/2" Male Solder Pex-Al-Pex Adapter	\$5.45	June '08	20
QHPAPAJ4M	5/8" Compression x 3/4" Male Solder Pex-Al-Pex Adapter	\$8.25	June '08	20
QHPAPA44M	3/4" Compression x 3/4" Male Solder Pex-Al-Pex Adapter	\$9.85	June '08	20
QHPAPA55M	1" Compression x 1" Male Solder Pex-Al-Pex Adapter	\$15.60	June '08	20
QHPAPA33F	1/2" Compression x 1/2" Female Solder Pex-Al-Pex Adapter	\$5.70	June '08	20
QHPAPA34F	1/2" Compression x 3/4" Female Solder Pex-Al-Pex Adapter	\$6.25	June '08	20
QHPAPAJ4F	5/8" Compression x 3/4" Female Solder Pex-Al-Pex Adapter	\$7.35	June '08	20
QHPAPA44F	3/4" Compression x 3/4" Female Solder Pex-Al-Pex Adapter	\$10.05	June '08	20
QHPAPA55F	1" Compression x 1" Female Solder Pex-Al-Pex Adapter	\$14.30	June '08	20
QHPAPMMC3	1/2" Pex-Al-Pex QickZone and AccuFlow Manifold Connector	\$15.50	June '08	20
QHPAPMMCJ	5/8" Pex-Al-Pex QickZone and AccuFlow Manifold Connector	\$18.00	June '08	20
QHPAPMMC4	3/4" Pex-Al-Pex QickZone and AccuFlow Manifold Connector	\$29.00	June '08	20
QHPAPIS-3	1/2" Internal Bending Spring	\$12.18	June '08	13
QHPAPIS-J	5/8" Internal Bending Spring	\$16.54	June '08	13
QHPAPIS-4	3/4" Internal Bending Spring	\$19.14	June '08	13
QHPAPIS-5	1" Internal Bending Spring	\$25.24	June '08	13
QHPAPES-3	1/2" External Bending Spring	\$24.00	June '08	13
QHPAPES-J	5/8" External Bending Spring	\$30.45	June '08	13
QHPAPES-4	3/4" External Bending Spring	\$36.30	June '08	13
QHPAPES-5	1" External Bending Spring	\$40.20	June '08	13
QHPAP-234	Reamer for 3/8", 1/2" and 3/4"	\$13.06	June '08	13
QHPAP-J45	Reamer for 5/8", 3/4" and 1"	\$16.54	June '08	13

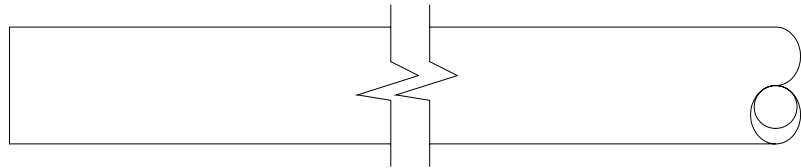
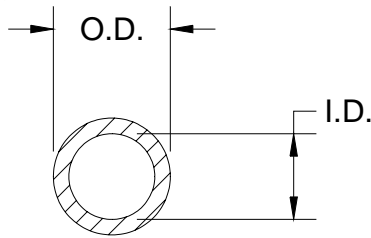
Contact your local distributor or sales representative for additional information



Pex-Al-Pex Tubing – QHPAP

1/2", 5/8", 3/4", and 1" Pex-Al-Pex Tubing Specification Sheet Tag _____

Dimensional Data: Inches and [mm] are subject to manufacturing tolerances and change without notice.



Zurn Designation	Nom. Size (CTS)	Avg. O.D.	Avg. I.D.	Min. Wall	Wt. Per 100 Ft.	Avg. Fluid Cap.
Q3PAPX	1/2"	.636"	.490"	.065"	6.48 lbs	.0098 gal/ft
QJPAPX	5/8"	.793"	.627"	.075"	9.40 lbs	.0160 gal/ft
Q4PAPX	3/4"	.990"	.792"	.089"	13.61 lbs	.0256 gal/ft
Q5PAPX	1"	1.266"	1.014"	.114"	21.85 lbs	.0420 gal/ft

Engineering Specification: Radiant floor heating tubing shall be coextruded cross-linked polyethylene composite pressure pipe with a welded aluminum tube reinforcement between the inner and outer layers. Tubing shall meet the dimension and performance specifications of ASTM F1281. The aluminum inner layer shall limit oxygen diffusion to a rate of .006g/m³/day at 104°F (40°C) water temperature. Temperature and pressure ratings shall be 200 PSI at 73°F, 125 PSI at 180°F, and 100 PSI at 200°F.

Description

Zurn Pex-Al-Pex tubing having an aluminum layer between two PEX layers. This aluminum layer limits oxygen permeation through the tubing wall in hydronic heating applications that can contribute to corrosion of ferrous metal parts in the heating system. Corrosion Inhibitor may be used to protect ferrous metal components but strict attention must be kept to maintain acceptable inhibitor levels, otherwise system failures can occur.

PEX Storage – Caution

Like most plastic materials, all cross-linked polyethylene is subject to ultraviolet (UV) deterioration and must not be exposed to sunlight, either direct or indirect. Storage outside is not recommended but if this becomes necessary, the tubing must be covered with a material which will protect it from ultraviolet light. Failure to do so will void the warranty.

Applications

- Residential, commercial and industrial radiant floor/wall/ceiling heating
- Snow and ice melt systems
- Soil conditioning in greenhouse/stadium applications
- Hot water baseboard heating distributions
- Water distribution piping to manifolds, hydronic coils in air handlers, etc.
- Radiant cooling
- Underground fluid distribution
- Anywhere that non-potable hot or cold fluid distribution is needed (within the temperature and pressure limitations)

Warranty

Zurn offers a limited 25-year warranty. Please see Form ZPM08202-R for complete warranty information.

Rev.	Date: 02/22/08	C.N. No. 98152
Dwg. No. 83669		Prod. No. Q_PAP

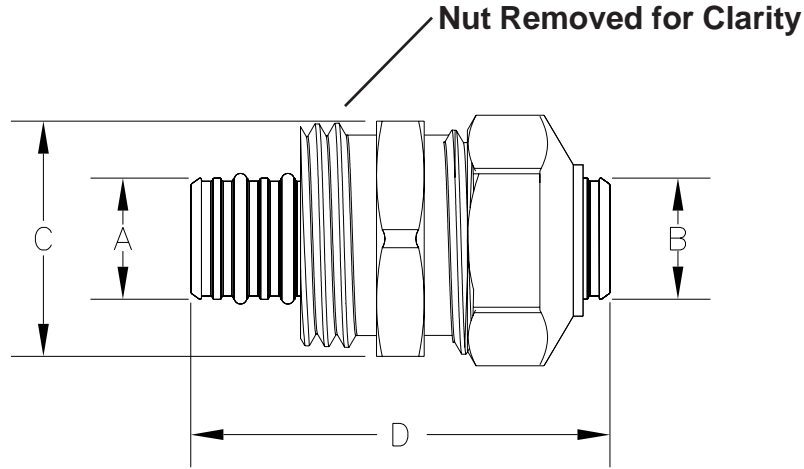


Pex-Al-Pex Brass Compression Coupling - QHPAP__C

Specification Sheet

Tag _____

Dimensional Data: Inches and [mm] are subject to manufacturing tolerances and change without notice.



Part Number	Nominal Size	'A' in [mm]	'B' in [mm]	'C' in [mm]	'D' in [mm]
QHPAPC33C	1/2"	0.482 [12.2]	0.482 [12.2]	0.91 [23.0]	1.87 [47.5]
QHPAPCJJC	5/8"	0.620 [15.7]	0.620 [15.7]	1.06 [27.0]	1.91 [48.5]
QHPAPC44C	3/4"	.781 [19.8]	.781 [19.8]	1.30 [33.0]	1.93 [49.0]
QHPAPC55C	1"	.998 [25.3]	.998 [25.3]	1.58 [40.0]	2.01 [51.0]

Engineering Specification: ZurnPEX™ brass Pex-Al-Pex compression coupling. The QHPAPC__C coupling to connect Pex-Al-Pex tubing to Pex-Al-Pex tubing. Tubing is sealed with the use of two **buna-N** o-rings per barb. For use with Pex-Al-Pex Alumicor tubing made to ASTM F1281. For use in radiant heating and snow melting systems.

Accessories

- ___ Q3PAPX 1/2" Alumicor Pex-Al-Pex
- ___ QJPAPX 5/8" Alumicor Pex-Al-Pex
- ___ Q4PAPX 3/4" Alumicor Pex-Al-Pex
- ___ Q5PAPX 1" Alumicor Pex-Al-Pex

Rev.	Date: 02/14/08	C.N. No. 98151
Dwg. No. 83668		Prod. No. QHPAPC__C



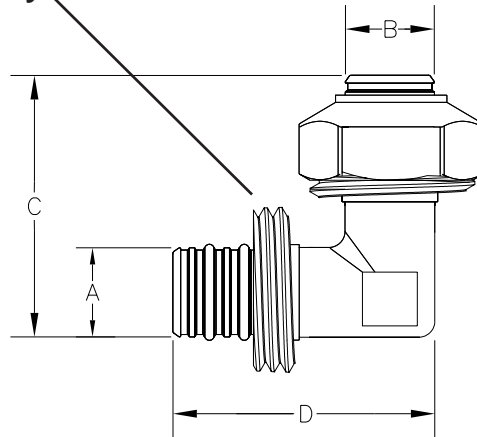
Pex-Al-Pex Brass Compression Elbow - QHPAPE__C

Specification Sheet

Tag _____

Dimensional Data: Inches and [mm] are subject to manufacturing tolerances and change without notice.

Nut Removed for Clarity



Part Number	Nominal Size	'A' in [mm]	'B' in [mm]	'C' in [mm]	'D' in [mm]
QHPAPE33C	1/2"	.482 [12.2]	.482 [12.2]	1.57 [39.9]	1.61 [41]
QHPAPEJJC	5/8"	.620 [15.7]	.620 [15.7]	1.73 [43.9]	1.75 [44.5]
QHPAPE44C	3/4"	.781 [19.8]	.781 [19.8]	1.95 [49.4]	1.95 [49.4]
QHPAPE55C	1"	.998 [25.3]	.998 [25.3]	2.24 [57]	2.24 [57]

Engineering Specification: ZurnPEX™ Pex-Al-Pex brass compression elbow. The QHPAPE__C elbow is used to make sharp 90° bends. Tubing is sealed with the use of two **buna-N** o-rings per barb. For use with Pex-Al-Pex Alumicor tubing made to ASTM F1281. For use in radiant heating and snow melting systems.

Accessories

___ Q3PAPX	1/2" Pex-Al-Pex Tubing
___ QJPAPX	5/8" Pex-Al-Pex Tubing
___ Q4PAPX	3/4" Pex-Al-Pex Tubing
___ Q5PAPX	1" Pex-Al-Pex Tubing

Rev.	Date: 02/14/08	C.N. No. 98154
Dwg. No. 83671		Prod. No. QHPAPE__C

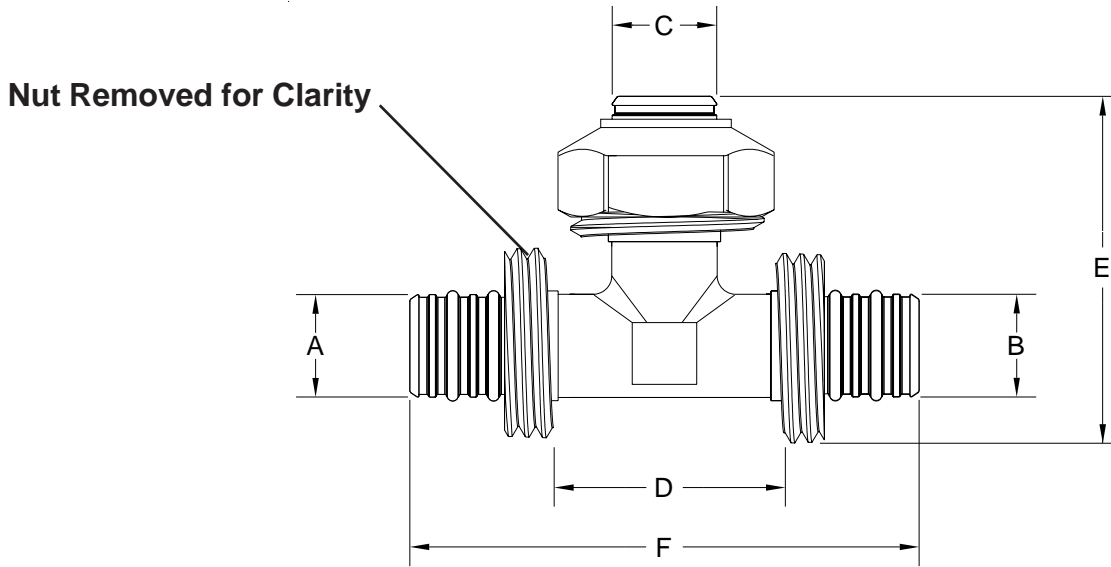


Pex-Al-Pex Compression Tee - QHPAPT__C

Specification Sheet

Tag _____

Dimensional Data: Inches and [mm] are subject to manufacturing tolerances and change without notice.



Part Number	Nominal Size	'A' in [mm]	'B' in [mm]	'C' in [mm]	'D' in [mm]	'E' in [mm]	'F' in [mm]
QHPAPT333C	1/2" x 1/2" x 1/2"	.482 [12.2]	.482 [12.2]	.482 [12.2]	1.13 [28.6]	1.77 [45]	2.68 [68]
QHPAPT444C	3/4" x 3/4" x 3/4"	.781 [19.8]	.781 [19.8]	.781 [19.8]	1.52 [38.6]	2.19 [55.5]	3.11 [79]
QHPAPT553C	1" x 1" x 1/2"	.998 [25.3]	.998 [25.3]	.482 [12.2]	1.13 [28.6]	2.54 [64.5]	2.76 [70]
QHPAPT55JC	1" x 1" x 5/8"	.998 [25.3]	.998 [25.3]	.620 [15.7]	1.28 [32.6]	2.54 [64.5]	2.91 [74]
QHPAPT554C	1" x 1" x 3/4"	.998 [25.3]	.998 [25.3]	.781 [19.8]	1.52 [38.6]	2.54 [64.5]	3.15 [80]
QHPAPT555C	1" x 1" x 1"	.998 [25.3]	.998 [25.3]	.998 [25.3]	1.84 [46.6]	2.50 [63.5]	3.47 [88]

Engineering Specification: ZurnPEX™ brass Pex-Al-Pex compression tee. The QHPAPT__C tee is used to branch off a main line or change direction. Tubing is sealed with the use of two **buna-N** o-rings per barb. For use with Pex-Al-Pex Alumicor tubing made to ASTM F1281. For use in radiant heating and snow melting systems.

Accessories

- ___ Q3PAPX 1/2" Pex-Al-Pex Tubing
- ___ QJPAPX 5/8" Pex-Al-Pex Tubing
- ___ Q4PAPX 3/4" Pex-Al-Pex Tubing
- ___ Q5PAPX 1" Pex-Al-Pex Tubing

Rev.	Date: 02/14/08	C.N. No. 98149
Dwg. No. 83666		Prod. No. QHPAPT__C

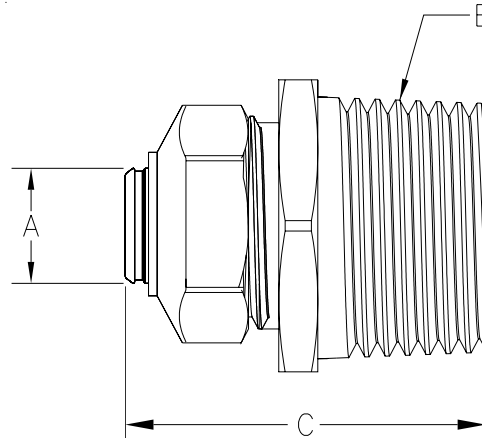


Pex-Al-Pex x MNPT Brass Adapter - QHPAPMA__C

Specification Sheet

Tag _____

Dimensional Data: Inches and [mm] are subject to manufacturing tolerances and change without notice.



Part Number	Nominal Size	'A' in [mm]	'B' in [mm]	'C' in [mm]
QHPAPMA33C	1/2" Pex-Al-Pex Comp. x 1/2" MNPT	.482 [12.2]	1/2" - 14 NPT	1.58 [40]
QHPAPMA44C	3/4" Pex-Al-Pex Comp. x 3/4" MNPT	.781 [19.8]	3/4" - 14 NPT	1.67 [42.5]

Engineering Specification: ZurnPEX™ brass Pex-Al-Pex brass male adapter compression fitting. The QHPAPMA__C adapter to transition from female pipe threads to Pex-Al-Pex tubing. Tubing is sealed with the use of two **buna-N** o-rings per barb. For use with Pex-Al-Pex Alumicor tubing made to ASTM F1281. For use in radiant heating and snow melting systems.

Accessories

- ___ **Q3PAPX** 1/2" Pex-Al-Pex Tubing
- ___ **Q4PAPX** 3/4" Pex-Al-Pex Tubing

Rev.	Date: 02/14/08	C.N. No. 98148
Dwg. No. 83665		Prod. No. QHPAPMA__C

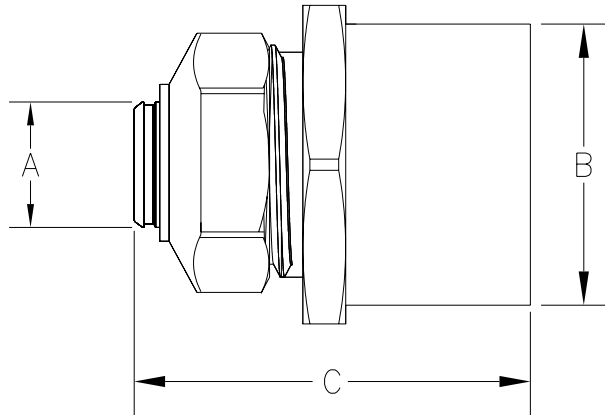


Pex-Al-Pex x Male Solder Adapter - QHPAPA__M

Specification Sheet

Tag _____

Dimensional Data: Inches and [mm] are subject to manufacturing tolerances and change without notice.



Part Number	Nominal Size	'A' in [mm]	'B' in [mm]	'C' in [mm]
QHPAPA33M	1/2" Pex-Al-Pex Comp. x 1/2" Male Solder	.482 [12.2]	.63 [15.9]	1.63 [41.5]
QHPAPAJ4M	5/8" Pex-Al-Pex Comp. x 3/4" Male Solder	.620 [15.8]	.88 [22.3]	1.89 [48]
QHPAPA44M	3/4" Pex-Al-Pex Comp. x 3/4" Male solder	.781 [19.8]	.88 [22.3]	1.95 [49.5]
QHPAPA55M	1" Pex-Al-Pex Comp. x 1" Male Solder	.998 [25.3]	1.13 [28.6]	2.13 [54]

Engineering Specification: ZurnPEX™ brass Pex-Al-Pex compression x male solder adapter. The QHPAPA__M adapter to transition from female copper pipe fitting to Pex-Al-Pex tubing. Tubing is sealed with the use of two **buna-N** o-rings per barb. For use with Pex-Al-Pex Alumicor tubing made to ASTM F1281. For use in radiant heating and snow melting systems.

Accessories

- ___ **Q3PAPX** 1/2" Pex-Al-Pex Tubing
- ___ **QJPAPX** 5/8" Pex-Al-Pex Tubing
- ___ **Q4PAPX** 3/4" Pex-Al-Pex Tubing
- ___ **Q5PAPX** 1" Pex-Al-Pex Tubing

Rev.	Date: 02/14/08	C.N. No. 98150
Dwg. No. 83667		Prod. No. QHPAPA__M

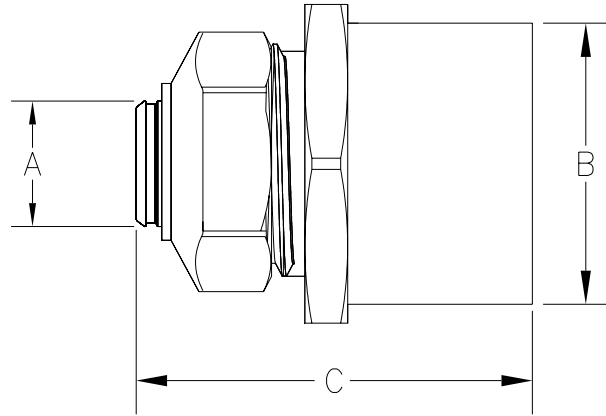


Pex-Al-Pex x Female Solder Adapter - QHPAPA__F

Specification Sheet

Tag _____

Dimensional Data: Inches and [mm] are subject to manufacturing tolerances and change without notice.



Part Number	Nominal Size	'A' in [mm]	'B' in [mm]	'C' in [mm]
QHPAPA33F	1/2" Pex-Al-Pex Comp. x 1/2" Female Solder	.482[12.2]	.73 [18.6]	1.42 [36]
QHPAPA34F	1/2" Pex-Al-Pex Comp. x 3/4" Female Solder	.482[12.2]	1.00 [25.5]	1.73 [44]
QHPAPAJ4F	5/8" Pex-Al-Pex Comp. x 3/4" Female Solder	.620 [15.7]	1.00 [25.5]	1.72 [43.5]
QHPAPA44F	3/4" Pex-Al-Pex Comp. x 3/4" Female Solder	.781 [19.8]	1.00 [25.5]	1.59 [40.3]
QHPAPA55F	1" Pex-Al-Pex Comp. x 1" Female Solder	.998 [25.3]	1.28 [32.5]	1.75 [44.5]

Engineering Specification: ZurnPEX™ brass Pex-Al-Pex compression x female solder adapter. The QHPAPA__F adapter to transition from copper pipe to Pex-Al-Pex tubing. Tubing is sealed with the use of two **buna-N** o-rings per barb. For use with Pex-Al-Pex Alumicor tubing made to ASTM F1281. For use in radiant heating and snow melting systems.

Accessories

- ___ **Q3PAPX** 1/2" Pex-Al-Pex Tubing
- ___ **QJPAPX** 5/8" Pex-Al-Pex Tubing
- ___ **Q4PAPX** 3/4" Pex-Al-Pex Tubing
- ___ **Q5PAPX** 1" Pex-Al-Pex Tubing

Rev.	Date: 02/14/08	C.N. No. 98153
Dwg. No. 83670		Prod. No. QHPAPA__F

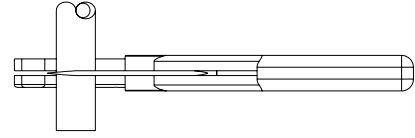


PEX-Al-PEX Compression Fittings - QHPAP_C Installation Instructions

The Zurn Pex-Al-Pex compressions fittings are to be used for heating applications only. They are not to be used in potable water applications. All fittings must have an isolator between the end of the Alumicor tubing and the brass fitting.

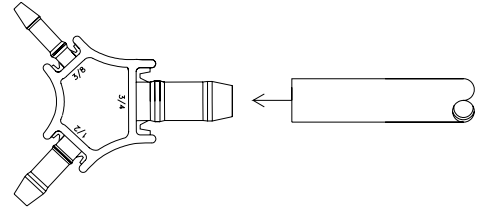
Cut Zurn PEX Alumicor Tubing

Step 1: Using a blade type cutter, cut tubing to desired length.



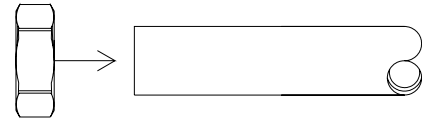
Prepare Tubing

Step 2: Use the appropriate sized section of the reamer tool. Insert cut tubing onto the tool and twist to reshape and prepare the tubing for the fitting.



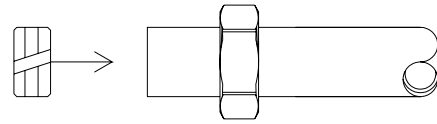
Insert Nut

Step 3: Slide the fitting nut onto the tubing. The threads should be facing the end of the tubing.



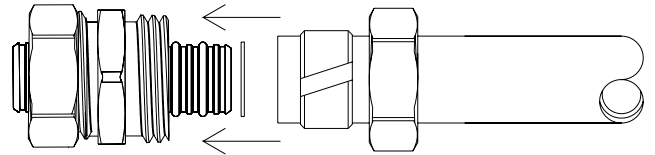
Install Split Ring

Step 4: Slide the split ring onto the tubing.



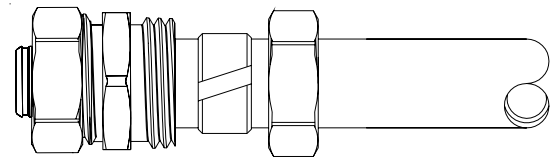
Install Tubing Isolator

Step 5: Verify the plastic isolator is installed in the fitting.



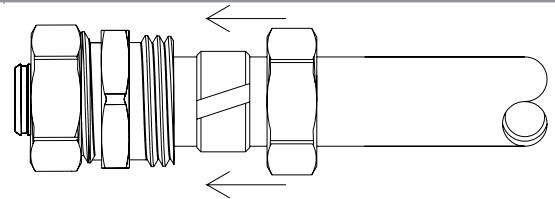
Install Tubing

Step 6: Push the tubing onto the barb until it touches the tubing isolator.



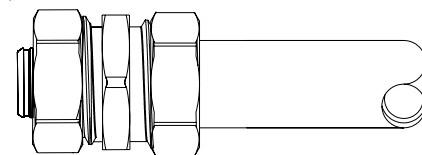
Prepare Fitting

Step 7: Slide split ring and nut down to the threads of the fitting.



Tighten Fitting

Step 8: Tighten nut onto threads until snug and continue to tighten an additional 1/4 turn with a wrench.



Warning: When installing solder fittings, excessive heat may damage o-rings and isolators.

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PEX-AI-PEX Bending Spring - QHPAPES- Installation Instructions

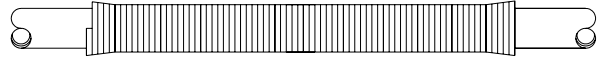
Slide Spring On

Step 1: Use the appropriate size external bending spring. Slide the external bending spring overtop of the tubing.



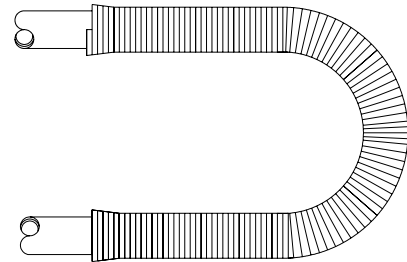
Center Spring

Step 2: Position the center of the external bending spring where the center of the bend needs to be made.

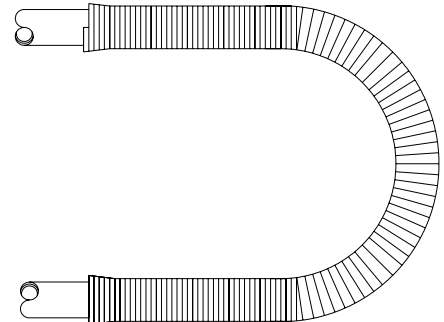


Bend Spring

Step 3: Grab the two ends of the external bending spring and put a bend in the tubing by placing a solid curved object (such as the installers knee) in the middle of the spring and then pulling on both sides of the spring to form the curve shape. The bend should be slightly over bent at this point.

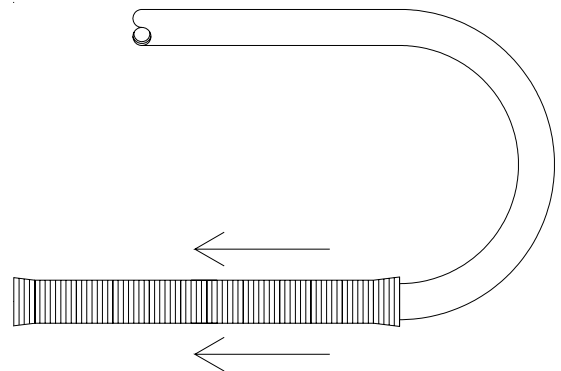


Step 4: Form the bend to the appropriate radius. A slight over bend initially helps the spring slide through after the final bend is formed.



Slide Spring Off

Step 5: Slide the external bending spring off of the new bend and to the next part of the tubing the needs to be bent, and repeat steps 2-4. HINT: If the installer is experiencing difficulties sliding the external bending spring to the next area to be bent, rotate the spring clockwise to widen the spring diameter.



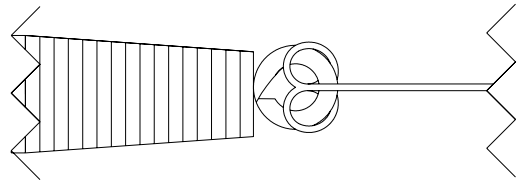
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PEX-AI-PEX Bending Spring - QHPAPIS- Installation Instructions

Tie Rope

Step 1: Tie a piece of rope onto the eye of the internal bending spring.

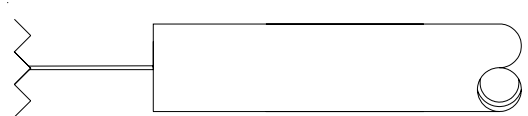


Insert Spring

Step 2: Use the appropriate sized internal bending spring. Insert the internal bending spring so the side without the eye is going into the tubing first. HINT: If the spring does not seem like it will fit through the tubing, rotate the spring counter clockwise to decrease the size of the spring, then try to insert it.

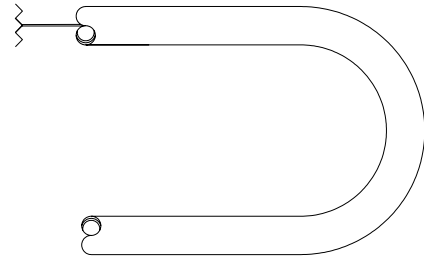


Step 3: Slide the internal bending spring to the portion of the tubing that needs bending. If more than one bend is going to be placed in the loop, slide the internal bending spring to the farthest portion of the tubing that needs bent from the opening. This way the internal bending spring will be easier to pull back out.

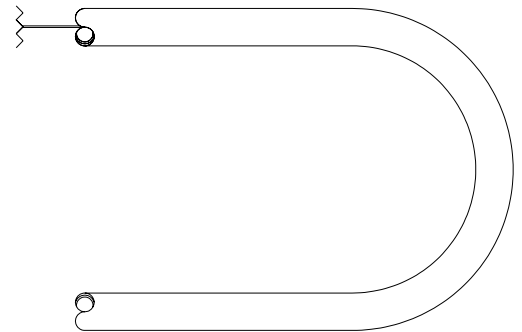


Bending the Spring

Step 4: Slide the internal bending spring so the center of the spring is in the center of the portion to be bent. Then bend the tubing around a solid round surface (such as the installers knee). The bend should be slightly over bent initially.

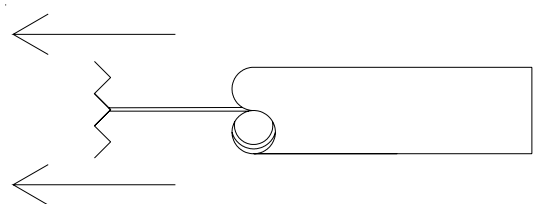


Step 5: Form the bend to the appropriate radius. A slight over bend initially helps the spring slide through after the final bend is formed.



Pull the Spring

Step 6: Pull the internal bending spring to the next portion of the tubing that needs bent. Then repeat steps 3-5 until all bends are made in the section.



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