# **RIIFO**



# **NORTH AMERICAN MARKET**

Flexible | Durable | Affordable

#### RIIFO GROUP INTERNATIONAL HOLDINGS LTD.

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www.riifo.us Revised on Aug 05, 2023

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WARRANTY AND 30
LIABILITY INSURANCE



# **ABOUT RIIFO**

RIIFO is a leading multinational corporation, providing one-stop piping solutions applied in residential, commercial, agricultural, industrial, and infrastructural sectors. Established in 1996,

with over 8,000 employees, 70 branches & subsidiaries, and 300,000 distributors, we have served customers in more than 100 countries and regions.

8,000

employees

100+

serving over 100 countries & regions

300,000

distributors worldwide

**70** 

branches & subsidiaries



# Innovation

Believing that innovation is the key to go beyond the ordinary, RIIFO has founded world-class labs recognized and certified by CNAS. Over 600 R&D employees are sparing no effort to challenge industrial boundaries, achieving 923 patents and 20 technology awards.

This innovative passion has translated perfectly into high-quality products and excellent service. RIIFO has been certified by TÜV Rheinland to ISO 9001, and always strive to provide ideal piping solutions for everyone.

# Scale

We've adopted highly automated production lines with the most rigorous and comprehensive production controls/management systems.

5,200+

production staff

4,000+

automated production lines

#### **Facility**

9

global production bases

494.2

acres area total

Capacity

Production Capacity

• Tubing: 10.5 billion ft/yr • Fittings: 1.3 billion pcs/yr

#### **Storage Capacity**

61,271,048 cubic feet ≈ 61,950 TEU
 (1 TEU = 1x20 GP container)

\* The above statistics are as of 2023.



# RIIFO Approvals

RIIFO adheres to the concept of prioritizing quality. All RIIFO products are produced under rigorous quality control systems. RIIFO currently has earned over 50 global certifications. Some examples are:

- NSF (certification of public health standards, USA)
- DVGW (certification for products for water and gas, Germany)
- AENOR (standardization and quality certification for companies, Spain)
- WRAS (certification for connections against leaks, residues, good function, pollution, UK)
- WATERMARK (health and safety certification, Australia)

#### Honors











#### Certificates

















STF









# PEX-a PLUMBING PRODUCTS



As a world leading plumbing systems manufacturer, RIIFO offers a comprehensive range of PEX-a products, which are highly regarded by installers for their chlorine resistance, freeze resistance, flexibility, and ease of installation. These systems are widely used in residential, commercial, and industrial applications for hot and cold potable water supply.

# 1.3 billion pcs/year

Fittings Production Capacity

# 164 million ft/year

PEX-a Tubing Production Capacity

# **Compatible Fittings:**





F1807





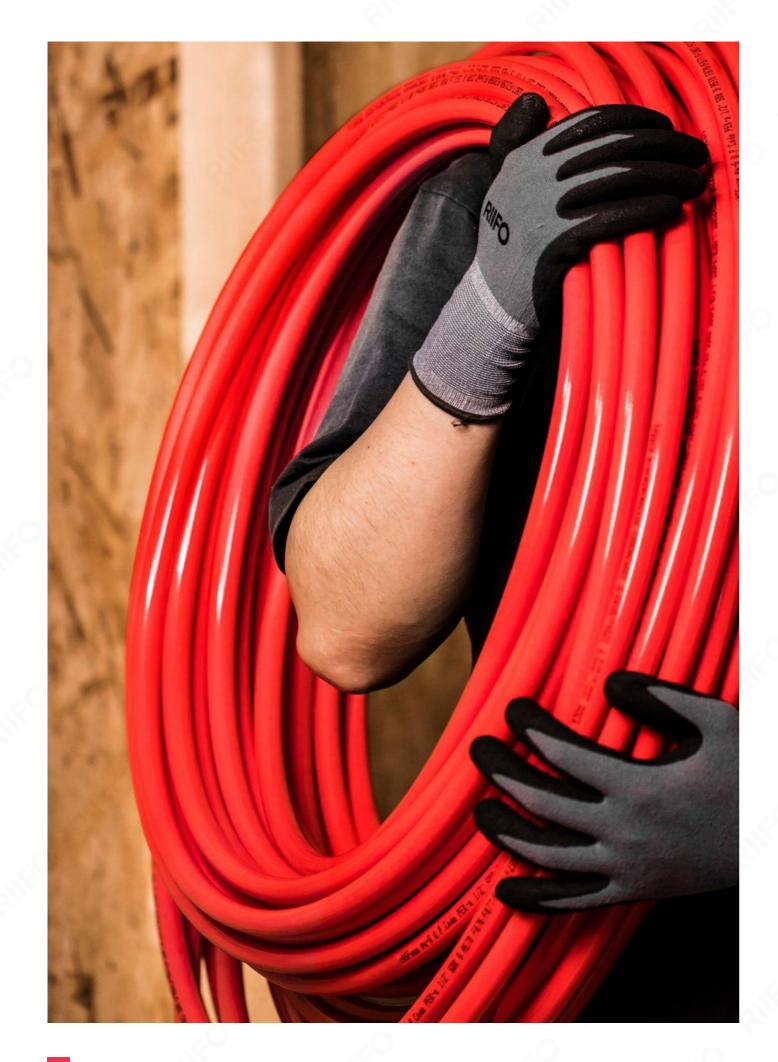
F1960



Press Fittings



<sup>\*</sup> The above statistics are as of 2023.





# PEX-a Tubing

#### **Technical Data**

Material: PEX-a cross-linked high density polyethylene

Max. Pressure & Temperature: 73.4°F at 160 psi, 180°F at 100 psi

Chlorine Resistance: ASTM F2023 – tested and listed to the Class-5 chlorine resistance listing

Minimum UV Resistance: 1 month

# Standards and Approvals

- NSF/ANSI 14 & 61
- ASTM F876/F877/F1960/F1807/F2159/F2098
- CSA B137.5
- ASTM F2023

# Certificates



# Specifications

# PEX-a Tubing Red Coils



Size	Length	Part Number	Qty
1/2"	100'	PXa12100R	1
1/2"	300'	PXa12300R	1
1/2"	500'	PXa12500R	1
3/4"	100'	PXa34100R	1

# PEX-a Tubing Red Sticks



			200	
Diameter	Length	Part Number	Qty	Bundle Length
1/2"	20'	PXa1220R	50	1000'
3/4"	20'	PXa3420R	20	400'

# PEX-a Tubing Blue Coils



Size	Length	Part Number	Qty
1/2"	100'	PXa12100B	1
1/2"	300'	PXa12300B	1
1/2"	500'	PXa12500B	1
3/4"	100'	PXa34100B	1
3/4"	300'	PX 34300B	1
1"	100'	PXa1100B	1

# PEX-a Tubing Blue Sticks



Diameter	Length	Part Number	Qty	Bundle Length
1/2"	20'	PXa1220B	50	1000'
3/4"	20'	PXa3420B	20	400'
1"	20'	PXa120B	15	300'

# PEX-a Tubing Natural Coils



Size	Length	Part Number	Qty
1/2"	100'	PXa12100N	1
1/2"	300'	PXa12300N	1
1/2"	500'	PXa12500N	1
3/4"	100'	PXa34100N	1
1"	100'	PXa1100N	1
1"	300'	PXa1300N	1

# PEX-a Tubing Natural Sticks



Diameter	Length	Part Number	Qty	Bundle Length
1/2"	20'	PXa1220N	50	1000'
3/4"	20'	PXa3420N	20	400'
1"	20'	PXa120N	15	300'



# F1960 Cold Expansion Fittings

(Lead-Free EcoBrass & Poly Alloy)

#### **Technical Data**

#### Working Temperature:

5°F (-15°C) ~ 200°F (93°C)\*

\*Note: According to ASTM F876 temperature and pressure ratings for SDR9 PEX-a

#### Material:

- EcoBrass UNS C69300
- PPSU (polyphenylsulfone)

# Standards and Approvals

- ASTM F1960
- CSA B137.5

#### Certificates



# **Specifications**

# RIIFO Lead-Free EcoBrass Expansion Fittings

#### Lead-Free EcoBrass Expansion Couplings



Size	Part Number	Qty	
1/2"	BEPC12	25	
3/4"	BEPC34	25	
1"	BEPC1	10	

#### Lead-Free EcoBrass Expansion Female Threaded Adapters



Size	Part Number	Qty	
1/2" PEX x 1/2" FPT	BEPFTA12	25	
3/4" PEX x 3/4" FPT	BEPFTA34	25	

#### Lead-free EcoBrass Expansion Male Threaded Adapters



#### Lead-Free EcoBrass Expansion Female Sweat Adapters



Size	Part Number	Qty	
1/2" x 1/2"	BEPFSA12	25	
3/4" x 3/4"	BEPFSA34	25	

# Lead-Free EcoBrass Expansion Male Sweat Adapters



/ 1 9			
Size	Part Number	Qty	
1/2" x 1/2"	BEPMSA12	25	
3/4" x 3/4"	BEPMSA34	25	

# Lead-Free EcoBrass Expansion Elbows



Size	Part Number	Qty
1/2"	BEPC12	25
3/4"	BEPC34	25
1"	BEPC1	10

# Lead-free EcoBrass Expansion Male Threaded Elbows



Size	Part Number	Qty	
1/2" PEX x 1/2"	BEPMT9012	25	
3/4" PEX x 3/4"	BEPMT9034	25	

# Lead-Free EcoBrass Expansion Female Sweat Elbows



Size	Part Number	Qty	8
1/2" x 1/2"	BEPFS9012	25	
3/4" x 3/4"	BEPFS9034	25	

#### Lead-Free EcoBrass Expansion Male Sweat Elbows



Size	Part Number	Qty	·(C)
1/2" x 1/2"	BEPMS9012	25	
3/4" x 3/4"	BEPMS9034	25	

# Drop Ear Elbows



Size	Part Number	Qty	
1/2"	BEPC12	25	
3/4"	BEPC34	25	
1"	BEPC1	10	

# Lead-free EcoBrass Expansion Tees



Size	Part Number	Qty	
1/2"	BEPT12	25	
3/4"	BEPT34	25	
3/4" x 1/2" x 1/2"	BEPT341212	25	
3/4" x 1/2" x 3/4"	BEPT341234	25	
3/4" x 3/4" x 1/2"	BEPT343412	25	

# RIIFO Poly Alloy Expansion Fittings

# Poly Alloy Expansion Couplings



Size	Part Number	Qty
1/2"	EPC12	50
3/4"	EPC34	25
3/4" x 1/2"	EPC3412	50
1"	EPC1	20
1" x 3/4"	EPC134	25

# Poly Alloy Expansion Elbows



Size	Part Number	Qty
1/2"	EP9012	50
3/4"	EP9034	25
3/4" x 1/2"	EP903412	25
1"	EP901	20

# Poly Alloy Expansion Female Swivel Adapters



Size	Part Number	Qty	
1/2" PEX x 1/2"	EPSW9012W	25	
1/2" PEX x 1/2"	EPSWFA12W	25	

# Poly Alloy Expansion Male Threaded Adapters



Size	Part Number	Qty	
1/2" PEX x 1/2"	EPMTA12	50	
1/2" PEX x 3/4"	EPMTA1234	25	
3/4" PEX x 3/4"	EPMTA34	50	
3/4" PEX x 1/2"	EPMTA3412	25	
1" PFX x 1"	FPMTA1	50	

#### Poly Alloy Expansion Manifolds



Size	Part Number	Qty
OUTLETS: 2; 3/4" x 1/2", OPEN END	EPM3412234	20
OUTLETS: 3; 3/4" x 1/2", OPEN END	EPM3412334	20
OUTLETS: 4; 3/4" x 1/2", OPEN END	EPM3412434	20
OUTLETS: 6; 3/4" x 1/2", OPEN END	EPM3412634	20
OUTLETS: 2; 3/4" x 1/2", CLOSED END	EPM3412200	20
OUTLETS: 3; 3/4" x 1/2", CLOSED END	EPM3412300	20
OUTLETS: 4; 3/4" x 1/2", CLOSED END	EPM3412400	10
OUTLETS: 6; 3/4" x 1/2", CLOSED END	EPM1012600	10

# Poly Alloy Expansion Plugs



Size	Part Number	Qty	
1/2"	EPTP12	100	
3/4"	EPTP34	50	
1"	EPTP1	50	

# Poly Alloy Expansion Tees



SY	Size	Part Number	Qty
	1/2"	EPT12	50
	1/2" x 1/2" x 3/4"	EPT121234	25
	3/4"	EPT34	25
	3/4" x 1/2" x 1/2"	EPT341212	20
	3/4" x 1/2" x 3/4"	EPT341234	20
	3/4" x 3/4" x 1/2"	EPT343412	20
	3/4" x 3/4" x 1"	EPT34341	20
	1"	EPT1	10
	1" x 3/4" x 3/4"	EPT13434	20
	1" x 3/4"x 1"	EPT1341	10
	1" x 1" x 1/2"	EPT1112	10
	1" x 1" x 3/4"	EPT1134	10

# Accessories

# PEX Expansion Rings



Size	Part Number	Qty	
1/2"	EPR12	100	
3/4"	EPR34	100	
1"	EPR1	50	

#### Installation

# PEX-a + F1960 Cold Expansion Fittings



#### Step 1

Cut the tubing vertically and precisely with a tubing cutter.



#### Step 2

Choose the appropriate size expansion ring and place it onto the end of the tubing.



#### Step 4

Remove the tool from the tubing and sleeve. Immediately insert the fitting into the expanded tubing until its shoulder touches the sleeve end.



#### Step 3

Using an approved manual or cordless expansion tool, slide the tubing onto the tool head until it stops. Expand until the tubing/sleeve are snug with the expander tool.

Note: Ensure to stop and rotate tubing 1/8 turn between expansions if using a manual tool or a battery tool without automatic rotation.



#### Step 5

Tubing may take up to two minutes to fully seal around the fitting. Twist the fitting to ensure the ring is fully sealed.

#### Recommended Tool Brands and Models

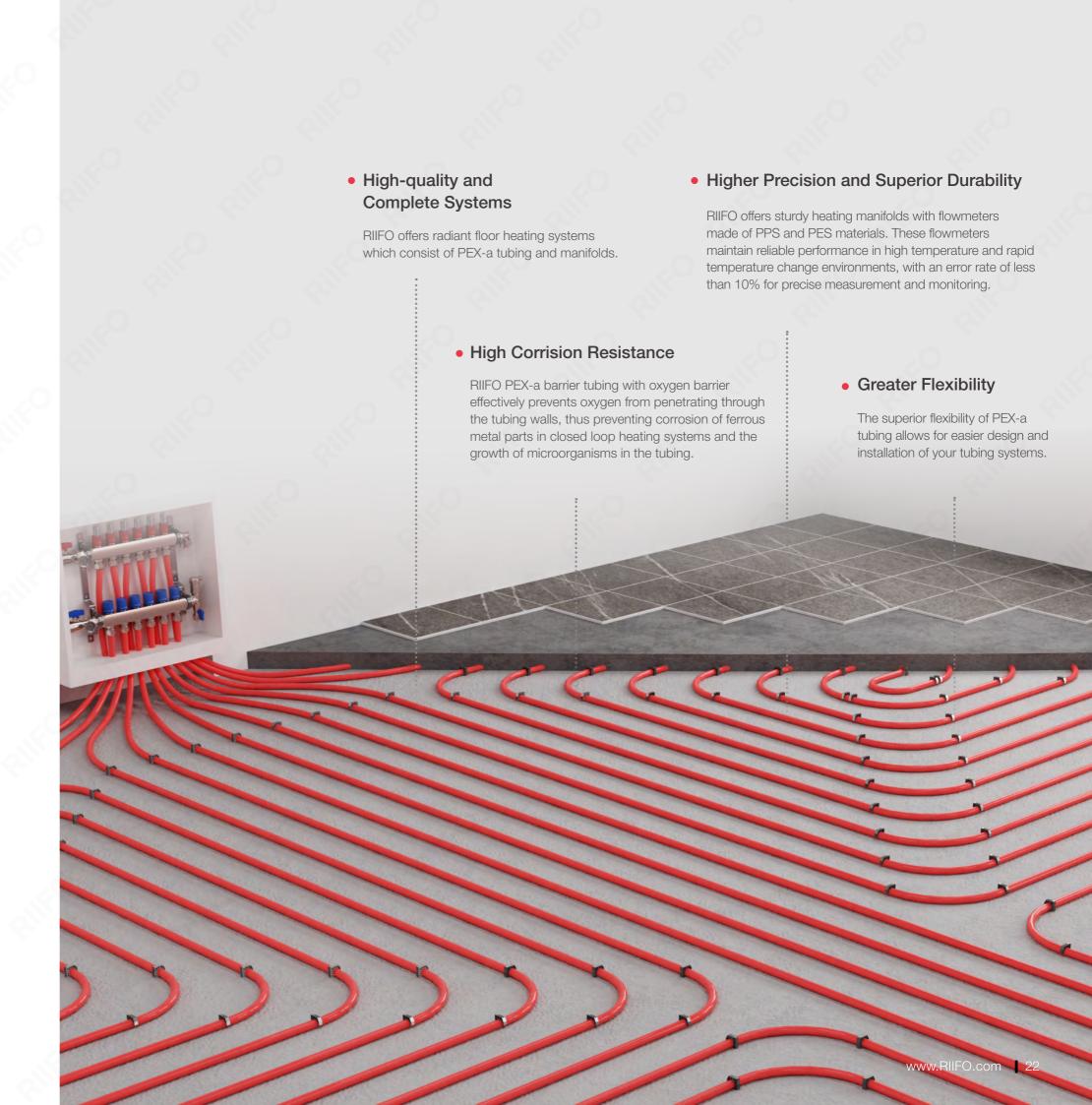
- Milwaukee M12 ProPEX Expansion Tool with M12 ProPEX Expansion Head
- Milwaukee M12 FUEL ProPEX Expander with M12 ProPEX Expansion Head/(RAPID SEAL)
- Dewalt 20V Max Lithium Ion Cordless PEX-a Expansion Tool with Heads

# PEX-a HEATING PRODUCTS



Radiant floor heating offers unparalleled benefits in terms of comfort, cleanliness, and efficiency. It surpasses baseboard heating and radiators in terms of efficiency and comfort, evenly distributing heat throughout the room. Compared to other systems, it reduces energy loss through ventilation ducts and decreases concerns regarding dust and allergens.

Furthermore, radiant heating can be seamlessly integrated with various energy systems such as gas boilers, solar hot water systems, and heat pump systems. The circular laying system provides a stable and evenly distributed heat source, giving you an optimal comfort experience.





# PEX-a Barrier **Tubing**

#### **Technical Data**

Material: PEX-a cross-linked high density polyethylene Oxygen Barrier: Ethylene vinyl alcohol (EVOH) Max. Pressure & Temperature: 73.4°F at 160 psi, 180°F at 100 psi

Chlorine Resistance: ASTM F2023 - tested and listed to the Class-5 chlorine resistance listing

# Standards and Approvals

- ASTM F876/F877/F1960/F1807/F2159/F2098
- CSA B137.5
- ASTM F2023

#### Certificates

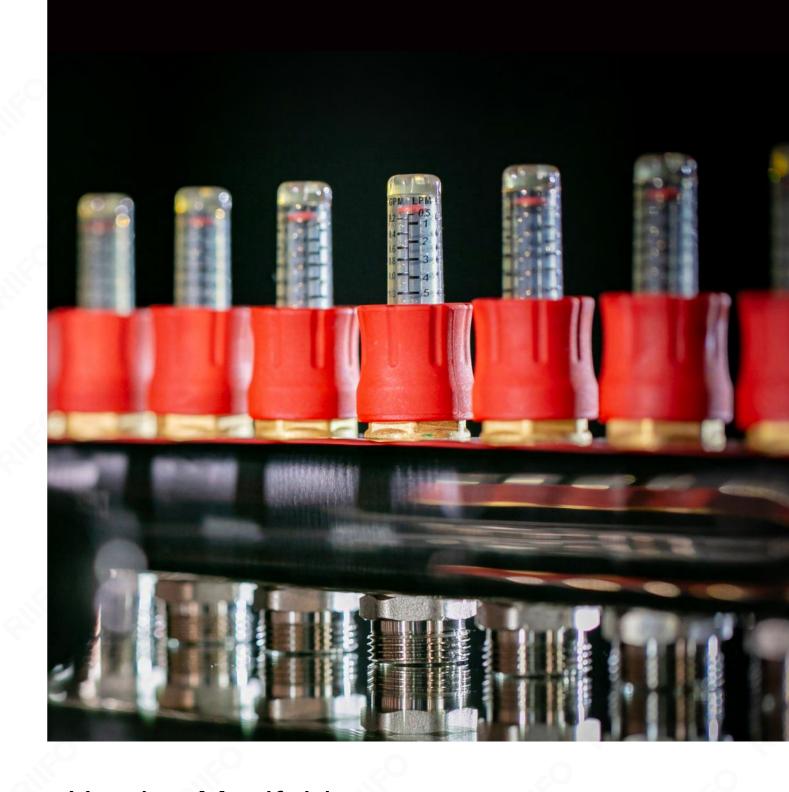


# **Specifications**

PEX-a Barrier Tubing Red Coils



Size	Length	Part Number	Qty
1/2"	300'	BPXa12300	1
1/2"	1000'	BPXa121000	1
5/8"	400'	BPXa58400	1
5/8"	1000'	BPXa581000	1
3/4"	300'	BPXa34300	1
3/4"	1000'	BPXa341000	1
1"	300'	BPXa1300	1



# **Heating Manifolds** and Accessories

# Standards and Approvals

• CSA B137.5

ASTM F877

ASTM F1807

#### Certificates



# Technical Data

# FN9 Brass Manifolds

700	Manifold Body	Brass		
Materials	Port Connection	Brass		
20	Seal	EPDM		
Working Performance	Permissible Maximum Continuous Working Temperature: 82°C (180°F) at 6.9bar (100psi)			
	Media 1	Water		
Working Media	Media 2	Water/Ethylene Glycol 50/50%		
	Media 3	Water/Propylene Glycol 50/50%		
	Indication Scale	0.5-5 L/min (0.13-1.32 G/min)		
Flow	Indication Tolerance	± 10%		
	Kvs	1.10		
	Supply/Return	G1" Female		
Connection	Circuit Connection	G3/4" Male		
.00	Flowmeter Connection	G1/2" Male		

# FN16 Stainless Steel Manifolds

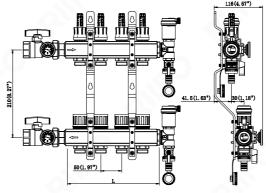
ASS	Manifold Body	Stainless Steel
Materials	Port Connection	Brass
	Seal	EPDM
Working Performance	Permissible Maximum Continuous 82°C (180°F) at 6.9bar (100psi)	Working Temperature:
	Media 1	Water
Working Media	Media 2	Water/Ethylene Glycol 50/50%
	Media 3	Water/Propylene Glycol 50/50%
Q2	Indication Scale	0.5-5 L/min (0.13-1.32 G/min)
Flow	Indication Tolerance	± 10%
	Kvs	1.10
	Supply/Return	G1" Female
Connection	Circuit Connection	G3/4" Male
	Flowmeter Connection	G1/2" Male

# Specifications

# Manifolds

# FN9 Brass Manifolds



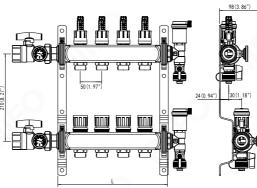


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	Size	Part Number	Connections	Loops	L/mm	L/in	Carton Qty
	1F-3/4*2	FN9HMB2	G1"x3/4"	2	120	4.72	4
	1F-3/4*3	FN9HMB3	G1"x3/4"	3	170	6.69	4
	1F-3/4*4	FN9HMB4	G1"x3/4"	4	220	8.66	4
	1F-3/4*5	FN9HMB5	G1"x3/4"	5	270	10.63	4
	1F-3/4*6	FN9HMB6	G1"x3/4"	6	320	12.6	4
	1F-3/4*7	FN9HMB7	G1"x3/4"	7	370	14.57	4
	1F-3/4*8	FN9HMB8	G1"x3/4"	8	420	16.54	2
	1F-3/4*9	FN9HMB9	G1"x3/4"	9	470	18.5	2
	1F-3/4*10	FN9HMB10	G1"x3/4"	10	520	20.47	2
	1F-3/4*11	FN9HMB11	G1"x3/4"	11	570	22.44	2
	1F-3/4*12	FN9HMB12	G1"x3/4"	12	620	24.41	2



# FN16 Stainless Steel Manifolds





Size	Part Number	Connections	Loops	L/mm	L/in	Carton Qty
1F-3/4*2	FN16HMSS2	G1"x3/4"	2	155	6.1	4
1F-3/4*3	FN16HMSS3	G1"x3/4"	3	205	8.07	4
1F-3/4*4	FN16HMSS4	G1"x3/4"	4	255	10.04	4
1F-3/4*5	FN16HMSS5	G1"x3/4"	5	305	12.01	4
1F-3/4*6	FN16HMSS6	G1"x3/4"	6	355	13.98	4
1F-3/4*7	FN16HMSS7	G1"x3/4"	7	405	15.94	4
1F-3/4*8	FN16HMSS8	G1"x3/4"	8	455	17.91	2
1F-3/4*9	FN16HMSS9	G1"x3/4"	9	505	19.88	2
1F-3/4*10	FN16HMSS10	G1"x3/4"	10	555	21.85	2
1F-3/4*11	FN16HMSS11	G1"x3/4"	11	605	23.82	2
1F-3/4*12	FN16HMSS12	G1"x3/4"	12	655	25.79	2



#### Manifold Accessories

#### Manifold Compression Adapters for PEX Tubing



Size	Part Number	Qty
3/8" x 3/4"	APT3834	6
1/2" x 3/4"	APT1234	6
5/8" x 3/4"	APT5834	6
3/4" x 3/4"	APT34	6

#### Manifold End Plugs



Size	Part Number	Qty	
1"	EP1	2	

#### Manifold Male Caps



Size	Part Number	Qty	
1"	MC1	2	

#### Manifold-Manifold Adapters



Part Number	Qty	
BLFMMAPT1	1 Set	

#### Manifold Female Caps



ı	Size	Part Number	Qty	
	3/4"	FC34	2	

#### Manifold Brackets



Part Number	Qty	00
ВВНМ	1 Pair	

#### Manifold End Piece with Drain Set



	Size	Part Number	Qty
67	1" Male	HMDS	1 Set

#### Manifold Ball Valve with Temperature Gauge





Color	Part Number	Qty	Description
Red	HMBVR	1	Straight
Blue	HMBVB	1	Straight

#### Manifold Auto Air Vent



Description	Part Number	Qty	
Assembly	FNHMAV	1	
Cap	FNHMAVC	1	
	Assembly	Assembly FNHMAV	Assembly FNHMAV 1

#### Manifold Auto Air Vent



Description	Part Number	Qty	
Assembly	FNHMFMV	1	

#### Manifold Actuated Return Valve



Description	Part Number	Qty	
Assembly	FNHMARV	1	
Cap	FNHMARVC	1	

#### Powered Actuator for FN Heating Manifolds



Description	Part Number	Qty	
2 WIRE	2WA	3	
4 WIRE	4WA	2	

27

#### Installation



#### Step 1

Make a clean straight cut perpendicular to the tubing as close to 90 degrees as possible.

Note: Please use a PEX tubing cutter which is specifically designed to cut PEX smoothly. Do not use reciprocating cutting tools like saws, as the uneven tubing ends may cause leaks.



#### Step 2

When connecting a manifold with a compression adapter, the fitting body should be installed and pushed into the manifold connection first.



#### Step 3

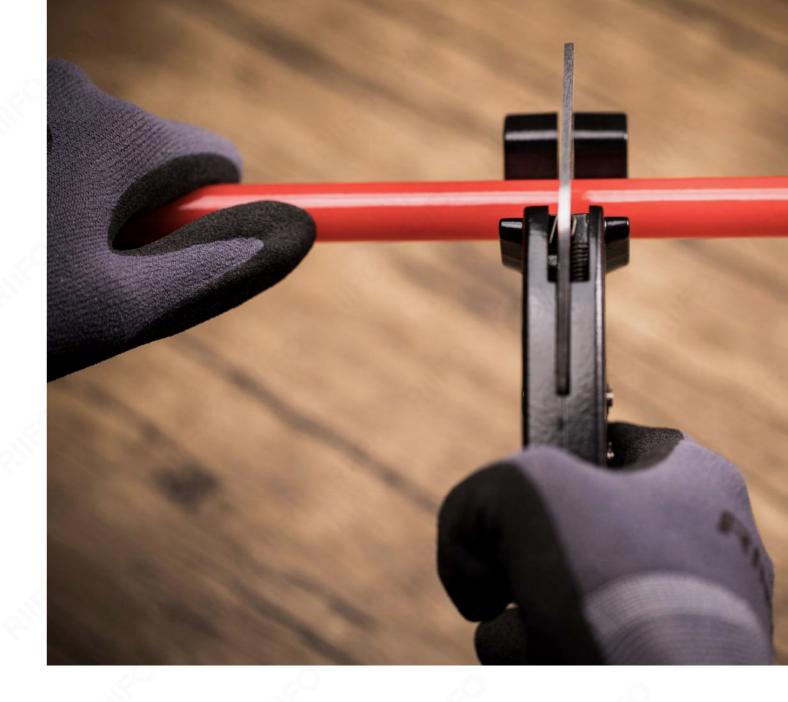
Ensure that the nut and compression ring are properly placed on the tubing before connecting tubing. Then ensure the tubing is pushed all the way into the fitting.



#### Step 4

Use a wrench to tighten the fitting.

Note: Do not over-tighten the compression adapter or over-twist the tube.



# **TOOLS AND ACCESSORIES**

# Specifications

**Tubing Cutters** 



Size	Carton Qty	
1/2"-3/4"	PTSC1	1

# **HANDLING & STORAGE**

#### **PEX-a Tubing**



In transporting, storing and handling the product, please note the following precautions.

- PEX-a tubing may be damaged by prolonged exposure to chemicals, including but not limited to:
  - Chlorine: PEX-a tubing is generally resistant to chlorine, but exposure to high levels of chlorine over an extended period may cause degradation.
  - Strong Acids and Bases: PEX-a tubing can be damaged by strong acids (e.g., hydrochloric acid, sulfuric acid) and bases (e.g., sodium hydroxide, potassium hydroxide). Avoid using these substances in direct contact with PEX-a tubing.
  - Petroleum-based Products: PEX-a tubing is not compatible with petroleum-based products like gasoline, diesel fuel, or oil. Prolonged exposure to these substances can cause deterioration or damage to the tubing.
  - Oxygenated Solvents: PEX-a tubing should not come into direct contact with oxygenated solvents, such as acetone, methanol, or isopropyl alcohol.
- Avoid using sharp tools to open the RIIFO PEX-a tubing package, which can damage the tubing.
- Avoid storing or installing the tubing where it will be directly or indirectly exposed to UV rays (e.g., sunlight).
- RIIFO PEX-a tubing is for plumbing only and is not approved or intended for any other use. Do not use with natural gas, propane, gasoline, diesel fuel or other liquid chemicals.
- Do not use defective tubing and inspect tubing before and after installation.
- Avoid exposure to high temperatures or contact with flammable materials.

#### **Brass Fittings**



In transporting, storing and handling the product, please note the following precautions.

- Brass fittings may be damaged by prolonged exposure to chemicals, including but not limited to:
  - Alkaline Solutions: Highly alkaline solutions, such as sodium hydroxide (NaOH) or potassium hydroxide (KOH), can also corrode brass fittings over time.
  - Acids: Strong acids, such as hydrochloric acid (HCl) or sulfuric acid (H<sub>2</sub>SO<sub>4</sub>), can corrode brass fittings and cause damage.
  - Ammonia: Ammonia can react with brass fittings and lead to corrosion or deterioration.
  - Oxidizing Agents: Strong oxidizing agents, such as hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) or potassium permanganate (KMnO<sub>4</sub>), can attack brass fittings and cause damage.
- Fittings should be protected from rain or water during transportation and storage.
- Avoid using external forces to squeeze the package, which may cause damage to the fittings.

#### **PPSU Fittings**



In transporting, storing and handling the product, please note the following precautions.

- PPSU products may be damaged by prolonged exposure to chemicals, including but not limited to:
  - Butanone can cause severe erosion or fracture of the material.
  - Tubing thread sealing compounds that are anaerobic adhesive such as: Lox Eal, Loctite, liquid sealant.
  - Fire wall penetration sealing compounds and caulking such as: non water clean-up silicone, butyl, polyurethane-based foam & caulk sealants, synthetic rubber sealants & caulks, acrylic latex sealants & caulks.
  - Petroleum-based materials or sealants such as: kerosene, benzene, petrol, solvents, fuel oils, cutting oils, asphaltic paint, and asphaltic road materials, acetone, toluene, and/or xylene.

#### **PPSU Fittings Continued**

- Long-term exposure of PPSU to direct sunlight significantly reduces the material's ductility, elongation at break and impact strength.
- Fittings should be protected from rain or water during transportation and storage.
- Avoid using external forces to squeeze the package, which may cause damage to the fittings.
- Avoid exposure to high temperatures or contact with flammable materials.

#### **PEX-a Barrier Tubing**



In transporting, storing and handling the product, please note the following precautions.

- PEX-a tubing may be damaged by prolonged exposure to chemicals, including but not limited to:
  - Chlorine: PEX-a tubing is generally resistant to chlorine, but exposure to high levels of chlorine over an extended period may cause degradation.
  - Strong Acids and Bases: PEX-a tubing can be damaged by strong acids (e.g., hydrochloric acid, sulfuric acid) and bases (e.g., sodium hydroxide, potassium hydroxide). Avoid using these substances in direct contact with PEX-a tubing.
  - Petroleum-based Products: PEX-a tubing is not compatible with petroleum-based products like gasoline, diesel fuel, or oil. Prolonged exposure to these substances can cause deterioration or damage to the tubing.
  - Oxygenated Solvents: PEX-a tubing should not come into direct contact with oxygenated solvents, such as acetone, methanol, or isopropyl alcohol.
- Avoid using sharp tools to open the RIIFO PEX-a tubing package, which can damage the tubing.
- Avoid storing or installing the tubing where it will be directly or indirectly exposed to UV rays (e.g., sunlight).
- RIIFO PEX-a barrier tubing is for UFH only and is not approved or intended for any other use. Do not use with natural gas, propane, gasoline, diesel fuel or other liquid chemicals.
- Do not use defective tubing and inspect tubing before and after installation.
- Do not drag or install tubing in areas with rocks or sharp objects, there is a high risk of damage to the oxygen barrier.
- Avoid exposure to high temperatures or contact with flammable materials

# WARRANTY AND LIABILITY INSURANCE

Further details about warranty terms and liability insurance are available in our official documents. To learn more, please contact our company at www.riifo.us.



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