

ComPRESSED Metal Fittings System INSTALLATION INSTRUCTIONS

If you are experiencing trouble with this product, or missing parts, please call 800-954-3310 for assistance
DO NOT RETURN TO STORE

ComPRESSED™ METAL FITTINGS SYSTEM

PLANNING/LAYOUT

Before beginning the installation, create a plan as to the location of the air compressor and where you are going to mount the compressed air outlets. On the plan locate outlets, tees, and elbows.

AIR COMPRESSOR

Use a flexible jumper hose from the air compressor to the filter regulator unit to reduce vibration to the FastPipe System.

FILTER REGULATOR

A filter regulator unit is recommended to keep contaminants out of the air system and to allow for pressure adjustment.

RATINGS

The system has a maximum working pressure of 232 psi and a temperature range from 0 to 176 deg F.

ASSEMBLY OF THREADED COMPONENTS

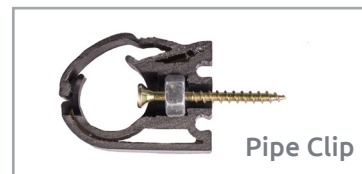
Assemble all NPT threads with two wraps of pipe tape and then PIPE SEALANT which prevents thread galling.



FLAT SURFACE INSTALLATION



- Hangers or mounting clips should be no more than 10 ft apart and one must be at least 6" from a fitting
- Use pipe clips to secure pipe to any flat surface with mounting screw
- Ceiling or wall mount
- Clip has 5/16" thru hole and hex bore for a 5/16" hex nut
- Hex nut serves as a backer for screws
- Use #10 Drywall Screw or Tapcon
- In horizontal installations, mount clip pivot tab up



HANGING INSTALLATION

- Beam Clamp
- 5/16" Threaded Rod
- Pipe Clip



- Beam Clamp
- 3/8" Threaded Rod
- Pipe Clip



TEMP CHANGE	MAXIMUM STRAIGHT RUN DISTANCE						
	3/4"	1"	1 1/2"	2"	3"	4"	6"
10°F	700 ft.	600 ft.	550 ft.	500 ft.	300 ft.	250 ft.	225 ft.
20°F	500 ft.	460 ft.	420 ft.	370 ft.	230 ft.	190 ft.	175 ft.
35°F	350 ft.	310 ft.	280 ft.	250 ft.	150 ft.	125 ft.	100 ft.
55°F	260 ft.	230 ft.	200 ft.	190 ft.	120 ft.	95 ft.	75 ft.
70°F	200 ft.	190 ft.	170 ft.	150 ft.	100 ft.	75 ft.	50 ft.

Any piping system will expand and contract with temperature changes, use this guide for installation of expansion joints to compensate for this movement of aluminum pipe in non-conditioned buildings.

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PRESS FIT INSTALLATION 3/4" - 3"



Cut Pipe to length
with tubing cutter
(cut must be square)
DO NOT USE HACK SAW

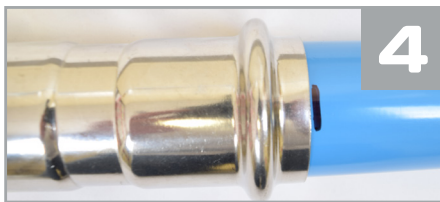


Deburr the end of the pipe
outside and inside
(a smooth edge allows easy fitting
assembly and no damage to the
fitting O-ring)

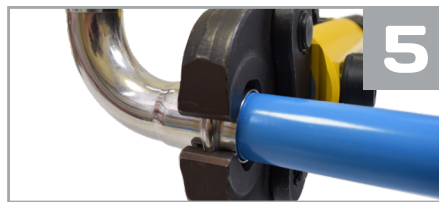


Mark end of pipe
for the proper
insertion depth

3/4" Fittings:	1 1/4 inches
1" Fittings:	1 3/8 inches
1 1/2" Fittings:	2 inches
2" Fittings:	2 1/2 inches
3" Fittings:	2 3/4 inches
4" Fittings:	3 1/4 inches



Insert pipe
into fitting until pipe bottoms out



Crimp
Use correct jaw
Use correct press tool

3/4"- 2":	7200 LBF
3"- 4":	18,000 LBF



Finished crimp

PRESS FIT INSTALLATION TOOLS

Replacement O-Ring



SIZE	PART NUMBER	
Jaw Set	FC0162	3/4"-2" JAWS
3/4" Jaw	FC0165	SINGLE JAW
1" Jaw	FC0166	SINGLE JAW
1 1/2" Jaw	FC0167	SINGLE JAW
2" Jaw	FC0168	SINGLE JAW
3" Jaw	FC0169	SINGLE JAW
4" Jaw	FC0170	SINGLE JAW



SIZE	PART NUMBER
3/4"	FC1076-10
1"	FC2076-10
1/2"	FC4076-10
2"	FC5076-10
3"	FC7076-10
4"	FC8076-10

Cordless Press Tool



SIZE	PART NUMBER
3/4"-2"	FI9020 32KN 7200 LBF
3"-4"	FI9050 80KN 18,000 LBF

Manual Press Tool



SIZE	PART NUMBER
3/4"-2"	FC0190 32KN 7200 LBF

Pipe Cutter



SIZE	PART NUMBER
3/4"-2"	F0140
3"	FI0148
4"-6"	FI0149

Deburr Tool



MAIN SIZE	PART NUMBER
3/4" & 1"	F0142
3/4" thru 2"	F0141

Deburr Tool



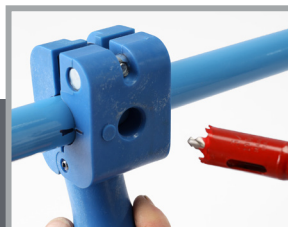
SIZE	PART NUMBER
3"	FI7905
4"	FI8905

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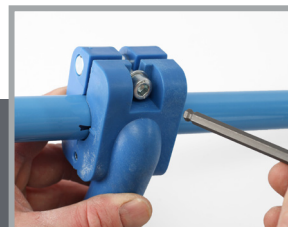
STEP 1



STEP 2



STEP 3



STEP 4

Saddle Drop Installation

- System must be de-pressurized before installing
- To prevent chips from entering the pipe interior, stop drilling occasionally and blow out chips, grease the end of the drilling tool

1. Position saddle drop opposite the side of the pipe that needs the hole
Tighten securely and mark the pipe by the raised locating mark on the fitting
Mark the pipe both horizontally & vertically along the fitting edge
2. Drill thru one side of the pipe with the drill bit, using the hole in the fitting as a locator
3. Insert the saddle drop gasket into the molded cavity
4. Position the saddle drop over the drilled hole with aligning marks, tighten securely
5. Attach the necessary drop pipe or threaded adapter

ASSEMBLY OF THREADED COMPONENTS

Assemble all NPT threads with two wraps of pipe tape and then PIPE SEALANT which prevents thread galling.



MAIN SIZE	DRILL BIT	REPLACEMENT GASKET
1"	5/16" F0043	FC2210C
1 1/2"	3/4" F0044	FC4210C
2"	3/4" F0044	FC5210C
3"	3/4" F0044	FC7210C
4"	1 5/16" F0045	FI8210C
6"	1 5/16" F0045	FI9210C

OUTLETS

Single Port



Outlet ports are 1/2" Female NPT, Drain port is 3/8" Female NPT

Multiport w/ Shutoff



Safety Quick Coupler



K7241 1/2" Male NPT

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WARNINGS

- Compressed air is **DANGEROUS** if not used properly
- Always use **EYE PROTECTION** when using compressed air
- **DO NOT POINT** compressed air at your body or any person
- Pressurize system **SLOWLY**
- **TURN OFF** air compressor when not in use
- **CHECK** local building codes before installation
- **ALWAYS RELIEVE** the system pressure when installing or performing maintenance
- Systems must have a **SAFETY RELIEF** valve installed at the compressed air source to prevent over-pressurization
- **WHEN USING FASTPIPE IN DIRECT SUNLIGHT, COVER OR PAINT THE POLYMER FITTING TO PROTECT IT FROM UV EXPOSURE** (Pipe needs no covering and can be exposed)
- Keep children away from system

FastPipe is not designed:

- For underground burial
- To electrically ground equipment
- To be welded
- To take violent impacts
- To be used where the compressed air treatment is about 140° F
- For environments of caustic or corrosive chemicals



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

Wash hands after handling.

CONTAINS LEAD: MAY BE HARMFUL IF EATEN OR CHEWED. MAY GENERATE DUST CONTAINING LEAD. KEEP OUT OF THE REACH OF CHILDREN.

INSTALLATION TIPS AND RECOMMENDATIONS:

Care must be taken on any installation of the FastPipe system. Pipes will be carrying compressed air/gas up to 232 psi. The FastPipe system is only as safe as a thorough installation. Read all installation instructions and watch installation videos before starting. Below are some tips for a safe installation.

We strongly recommend that the installer contact our tech department for installation questions PRIOR to the installation.

- Assemble all NPT **PIPE THREADS** with two wraps of Pipe tape and then pipe sealant which prevents thread galling
- Support the pipe with clips / hangers a maximum of **10 FT SPACING** and on **ONE SIDE OF EACH FITTING**
- FastPipe can be bent to a maximum of 15° **DO NOT OVER BEND.**
- Any machine/compressor plumbed to the FastPipe must have a **JUMPER HOSE** to reduce vibration
- Any piping system will expand and contract with temperature changes. Use **EXPANSION JOINTS** to compensate for this movement of aluminum pipe in non-conditioned buildings.
- **DO NOT USE** FastPipe for **PULSING** desiccant dryers or other like equipment.
- **CAUTION** installing inert gas bulk tank systems, gas must be warmed up to FastPipe temperature range
- Use a strain relief attached to the building for any rubber hose drops attached to the piping
- **DO NOT** connect quick couplings for air hoses to reducing elbows or tee fittings. The constant connecting/disconnecting and pulling of air hoses could loosen the fitting. Use the FastPipe **WALL OUTLET** which can be secured to a wall or post. Any hoses attached in the ceiling area to a fitting must use a strain relief attached to the building structure
- **CHECK** that all fittings are tightened before pressurizing the system for the first time
- For initial installation, pressurize system **SLOWLY** to 50 psi and check for leaks, then pressurize slowly to MAX 190 psi
- Make sure compressor output temperature does not exceed 140°F.
- **AFTER 24 HOURS** of being pressurized, depressurize the system and **RETIGHTEN** the compression nuts.
- Some settling of components may have occurred. This is not optional, it must be done.
- Make sure compressor output temperature does not exceed **176 F.**

PRODUCTS MANUFACTURED BY THE SELLER CARRY A LIMITED ONE YEAR WARRANTY. SEE WWW.RAPIDAIRPRODUCTS.COM FOR MORE DETAILS.