

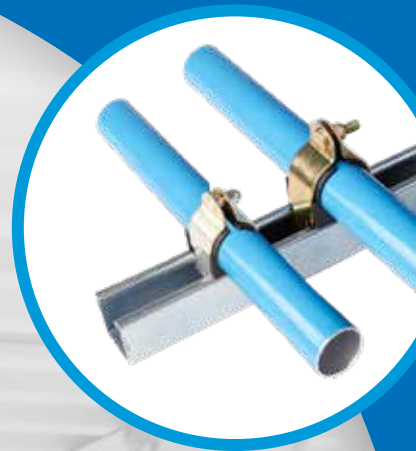
FAST PIPE[®]

BY RAPIDAIR

Modular Aluminum Compressed Air Piping System

SIZES: 3/4" to 2"

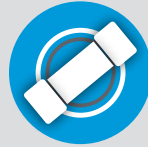
(3", 4", 6" ALSO AVAILABLE)





Fast Installation

- Compression style fittings make installation simple
- Aluminum piping is easy to cut and lift
- O-ring seals ensure a leak free system
- No gluing, threading, or soldering
- Installs in half the time as some traditional methods



Versatile

- Install in small shops to industrial plants
- Connect to any existing piping system
- Expand or modify the system with ease



Today's Improved Compressed Air Piping Method

3/4" - 2" Compression Type

(see page 7 for detailed instructions)

STEP 1



STEP 2



STEP 3



Technical Specs

- 190 psi working pressure
- 0° F to 140° F
- Compatible with all types of compressor lubricants
- Compressed air, vacuum, inert gas

General System Ratings

- Fire resistant to flammability standard UL94HB
- OSHA Compliant



Superior Air Quality

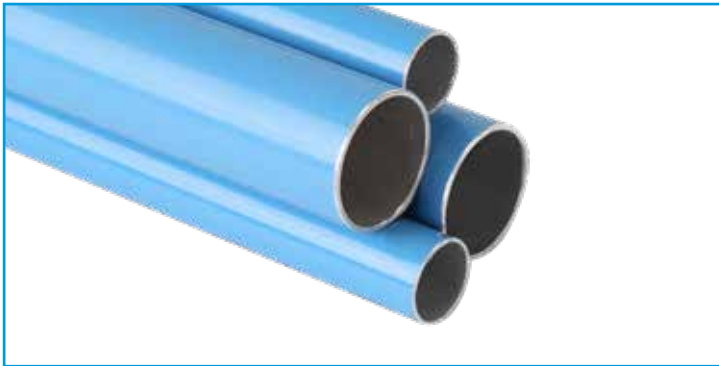
- No corrosion in the pipe and fitting means longer tool life
- Cools hot compressed air quickly for better filter performance



Energy Efficient

- Smooth inner wall and free flowing fittings lower compressed air costs
- Sealed connections means your compressor run time is less

Aluminum Pipe Specs 3/4" - 2" Fittings Specs 3/4" - 2"

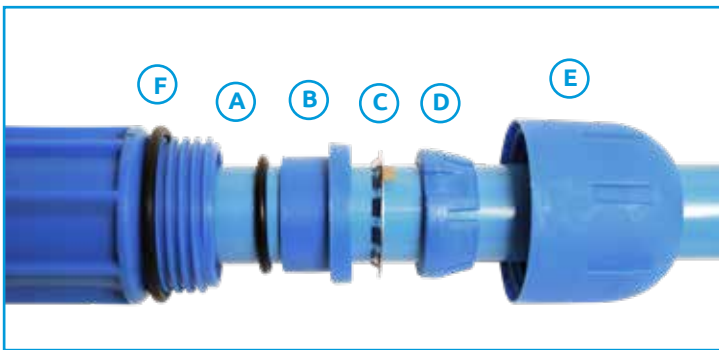


- Alloy grade
- Extruded to ASTM B221, B429
- Blue powder coat, RAL5012 outside
- Green powder coat, RAL6018 outside
- Non-chromate conversion coating inside



- Nylon 6 base with fiberglass reinforcement
- Bite ring: stainless steel
- O-ring: Nitrile

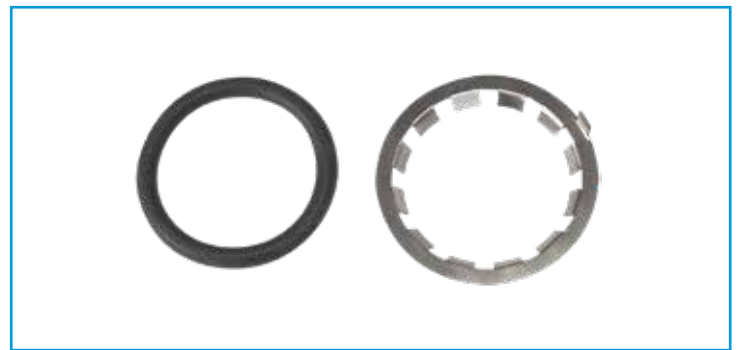
Fittings Parts



- A. O-Ring
- B. Backer
- C. SS Bite Ring
- D. Collet
- E. Cone Nut
- F. Tension O-Ring*

* Tension O-ring (F) is found on the 3/4" & 1" sizes only

Spare Parts Kit (Includes A & C)



SIZE	PART NUMBER
3/4"	F1076
1"	F2076
1/2"	F4076
2"	F5076

Pipe and Mounting

Pipe

Blue

SIZE	MM	PART #	OUTSIDE	INSIDE	LENGTH	WEIGHT
3/4"	20mm	F1000	.79 in.	.69 in.	19 ft. 2 in.	2.6 lbs.
1"	25mm	F2000	.98 in.	.87 in.	19 ft. 2 in.	4.2 lbs.
1½"	40mm	F4000	1.57 in.	1.43 in.	19 ft. 2 in.	8.8 lbs.
2"	50mm	F5000	1.97 in.	1.81 in.	19 ft. 2 in.	10.1 lbs.



Green

SIZE	MM	PART #	OUTSIDE	INSIDE	LENGTH	WEIGHT
3/4"	20mm	F1000G	.79 in.	.69 in.	19 ft. 2 in.	2.6 lbs.
1"	25mm	F2000G	.98 in.	.87 in.	19 ft. 2 in.	4.2 lbs.
1½"	40mm	F4000G	1.57 in.	1.43 in.	19 ft. 2 in.	8.8 lbs.
2"	50mm	F5000G	1.97 in.	1.81 in.	19 ft. 2 in.	10.1 lbs.

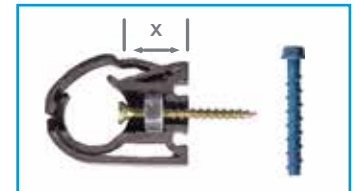


Wall or Ceiling Installation

- 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



MAIN SIZE	PART NUMBER	X DIMENSION
3/4"	F1022 - 10 10/pk	15/16"
1"	F2022 - 10 10/pk	7/8"
1½"	F4022 - 10 10/pk	1 15/16"
2"	F5022 - 10 10/pk	1 3/4"
3"	F17022 each	1 3/8"



Hanging Installation



Beam Clamp

- Thru hole design
- Works for both 5/16" and 3/8" threaded rod
- 3/4" width opening

PART NUMBER – F0018



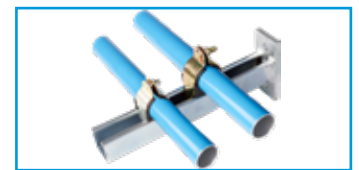
Loop Hanger

For 3/8" - 16 threaded rod

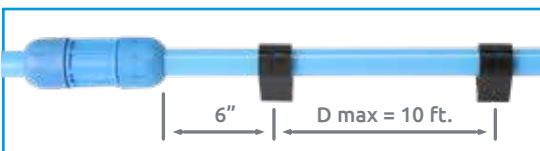
MAIN SIZE	PART NUMBER
3/4" & 1"	F0019
1½"	F0020
2"	F0024
3"	F0030
4"	F10031
6"	F10032

Cantilever Strut Arm

- 12" overall length
- 1 5/8" standard strut



PART NUMBER – F0021



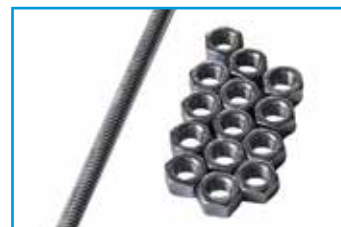
- Hangers or mounting clips should be no more than 10 ft. apart and one must be at least 6" from a fitting
- Do not over tighten cantilever type tube supports, pipe must be allowed to expand and contract slightly in length
- See page 10 for expansion joint guidelines

Strut Cushion Clamp

For 1 5/8" standard strut



MAIN SIZE	PART NUMBER
3/4"	F0017
1"	F0022
1½"	F0023
2"	F0025
3"	F10028
4"	F10035
6"	F10040



3/8 Threaded Rod x 6ft.

PART NUMBER

F0028

3/8 Hex Nut (100 Pack)

PART NUMBER

F0029

Compression Fittings

Union



MAIN SIZE	PART NUMBER
3/4"	F1002
1"	F2002
1½"	F4002
2"	F5002

Reducing Union



MAIN SIZE	PART NUMBER
1" x 3/4"	F2121
1½" x 3/4"	F4223
1½" x 1"	F4221
2" x 3/4"	F5223
2" x 1"	F5221
2" x 1½"	F5421

Inline Valve



MAIN SIZE	PART NUMBER
3/4"	F1111
1"	F2222
1½"	F4444
2"	F5555

90° Elbow



MAIN SIZE	PART NUMBER
3/4"	F1003
1"	F2003
1½"	F4003
2"	F5003

45° Elbow



MAIN SIZE	PART NUMBER
1"	F2004
1½"	F4004
2"	F5004

90° Reducing Elbow NPT



MAIN SIZE	DROP SIZE FEMALE	PART NUMBER
3/4"	1/4" NPT	F1073
3/4"	1/2" NPT	F1093
1"	1/4" NPT	F2073
1"	1/2" NPT	F2093
1"	3/4" NPT	F2083

Equal Tee



MAIN SIZE	PART NUMBER
3/4"	F1005
1"	F2005
1½"	F4005
2"	F5005

Reducing Tee



MAIN SIZE	DROP SIZE	PART NUMBER
1"	3/4"	F2107
1½"	3/4"	F4206
1½"	1"	F4207
2"	3/4"	F5206
2"	1"	F5207

Reducing Tee NPT



MAIN SIZE	DROP SIZE FEMALE	PART NUMBER
3/4"	1/4" NPT	F1007
3/4"	1/2" NPT	F1009
1"	1/4" NPT	F2007
1"	1/2" NPT	F2009
1"	3/4" NPT	F2008
1½"	1/2" NPT	F4009
1½"	3/4" NPT	F4008
2"	1/2" NPT	F5009
2"	3/4" NPT	F5008

Cross



MAIN SIZE	PART NUMBER
3/4"	F1051
1"	F2051
1½"	F4051
2"	F5051

Threaded Nipple



Male

MAIN SIZE	MALE THREAD	PART NUMBER
3/4"	1/2" NPT	F1018
3/4"	3/4" NPT	F1118
1"	1/2" NPT	F2018
1"	3/4" NPT	F2118
1"	1" NPT	F2218
1½"	1" NPT	F4218
1½"	1½" NPT	F4418
2"	1½" NPT	F5418
2"	2" NPT	F5518



Female

MAIN SIZE	FEMALE THREAD	PART NUMBER
3/4"	3/4" NPT	F1120
1"	1" NPT	F2220
1½"	1½" NPT	F4420



Female

MAIN SIZE	FEMALE THREAD	PART NUMBER
3/4"	1/2" NPT	F1221
1"	1/2" NPT	F2221
1½"	1/2" NPT	F4241
1"	3/4" NPT	F2231
1½"	3/4" NPT	F4231
1½"	1/2" NPT	F4241
2"	3/4" NPT	F5231
2"	1/2" NPT	F5241

Expansion Joints

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.



FEMALE NPT X FEMALE NPT

SIZE	PART #
1"	F0615
1½"	F0616
2"	F0617

TEMP CHANGE	MAXIMUM STRAIGHT RUN DISTANCE						
	¾"	1"	1½"	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.

Compression Fittings

Jumper Hose



RUBBER

MALE NPT X SWIVEL FEMALE NPT

MAIN SIZE	LENGTH	PART NUMBER
1/2"	2 ft.	F0212
1/2"	3 ft.	F0213
3/4"	2 ft.	F0214
3/4"	3 ft.	F0215
3/4"	5 ft.	F0221
1"	2 ft.	F0216
1"	3 ft.	F0217



STAINLESS STEEL

MALE NPT X SWIVEL FEMALE NPT

MAIN SIZE	LENGTH	PART NUMBER
1 1/2"	18"	F0225
1 1/2"	36"	F0226
2"	36"	F0227

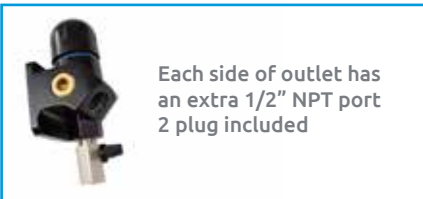
End Cap



SIZE	PART NUMBER
3/4"	F1006
1"	F2006
1 1/2"	F4006
2"	F5006

Multiport Wall Outlet

(HAS BOTTOM MOISTURE DRAIN)



Each side of outlet has an extra 1/2" NPT port 2 plug included



TOP INLET	OUTLET SIZE FEMALE	PART NUMBER
3/4"	(4x) 1/2" NPT	F1024
1"	(4x) 1/2" NPT	F2024

Multiport Wall Outlet w/ Shutoff

(HAS BOTTOM MOISTURE DRAIN)



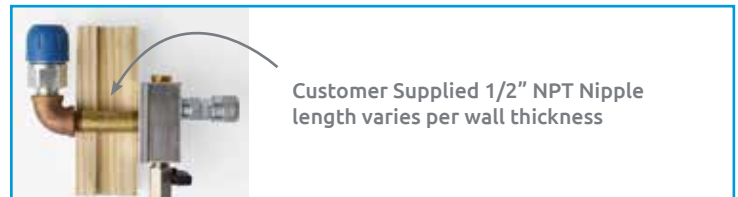
TOP INLET	OUTLET SIZE FEMALE	PART NUMBER
3/4"	(4x) 1/2" NPT	F1024V
1"	(4x) 1/2" NPT	F2024V

Single Port Wall Outlet



TOP INLET	OUTLET SIZE FEMALE	PART NUMBER
3/4"	1/2" NPT	F1014
1"	1/2" NPT	F2014

Thru Wall Or Outside Outlet



Customer Supplied 1/2" NPT Nipple length varies per wall thickness

MAIN SIZE	OUTLET SIZE FEMALE	PART NUMBER
3/4"	(1x) 1/2" NPT	F1024W
1"	(1x) 1/2" NPT	F2024W



Saddle Drop



MAIN SIZE	DROP SIZE	PART NUMBER
1"	1"	F2210
1½"	¾"	F4110
1½"	1"	F4210
2"	¾"	F5110
2"	1"	F5210

Saddle Drop NPT



MAIN SIZE	DRILL BIT	GASKET
1"	9/16" F0043	F2210C
1½"	¾" F0044	F4210C
2"	¾" F0044	F5210C



MAIN SIZE	DROP SIZE	PART NUMBER
1"	1/4" NPT	F2011
1"	1/2" NPT	F2012
1"	3/4" NPT	F2112
1½"	1/4" NPT	F4011
1½"	1/2" NPT	F4012
1½"	3/4" NPT	F4112
2"	1/4" NPT	F5011
2"	1/2" NPT	F5012
2"	3/4" NPT	F5112



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



FastPipe Installation 3/4" - 2"



1

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



2

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



3

Mark end of pipe for the proper insertion depth

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



4

Wet end of pipe with very diluted soapy water **DO NOT USE ANY OIL OR GREASE LUBRICANT**



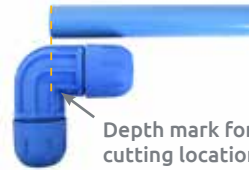
5

Loosen fitting cone nut partially **LOOK INSIDE EACH FITTING FOR INNER PARTS** (inner parts, o-ring, stainless steel bite ring)

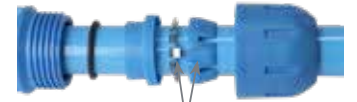


6

Insert pipe into fitting until pipe bottoms out **Hand tighten** fitting **Fully tighten** fitting with FastPipe spanner wrenches



Depth mark for cutting location



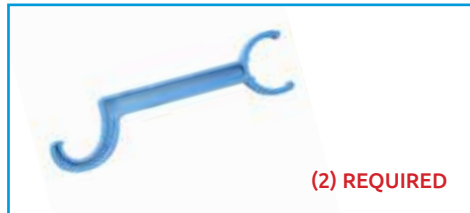
Tab must align to notch

Tool Set



MAIN SIZE	PART NUMBER
3/4"	F0136
1"	F0137
1 1/2"	F0138
2"	F0145

Spanner Wrench



(2) REQUIRED

MAIN SIZE	PART NUMBER
3/4"	F1020 each
1"	F2020 each
1 1/2"	F4020 each
2"	F5020 each

Deburr Tool



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

Pipe Cutter





MAIN SIZE	PART NUMBER
3/4" thru 2"	F0140

Spray Bottle




PART NUMBER
F0139

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 fittings to protect from UV exposure (Pipe needs no covering and can be exposed) 
- Keep children away from the 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 temperature is above 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 & Recommendations

Care must be taken on any installation of the FastPipe system. Pipes will be carrying compressed air/gas up to 190 psi. The FastPipe system is only as safe as a thorough installation. Read all installation instructions and watch 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 Thread 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**. 3/4" Fastpipe can be bent to 45°
- 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 or 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.
- **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 **140° F**.

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

Accessories

Safety Quick Coupler



Quick Coupler Plugs



30 CFM INDUSTRIAL STYLE TYPE M

PART NUMBER	MALE THREAD SIZE
K7221	1/4" NPT
K7241	1/2" NPT

PART NUMBER	FEMALE THREAD SIZE
K7220	1/4" NPT

PART NUMBER	MALE THREAD SIZE
K5221	1/4" NPT

PART NUMBER	FEMALE THREAD SIZE
K5220	1/4" NPT

70 CFM INDUSTRIAL STYLE TYPE H

PART NUMBER	MALE THREAD SIZE
K9231	3/8" NPT
K9241	1/2" NPT

PART NUMBER	FEMALE THREAD SIZE
K9230	3/8" NPT
K9240	1/2" NPT

PART NUMBER	MALE THREAD SIZE
K8221	1/4" NPT
K8231	3/8" NPT
K8241	1/2" NPT

PART NUMBER	FEMALE THREAD SIZE
K8220	1/4" NPT
K8230	3/8" NPT
K8240	1/2" NPT



Filter Regulator

PART NUMBER	PORT SIZE
K93215	3/8" NPT
K93216	1/2" NPT
K93217	3/4" NPT
K93218	1" NPT



Vertical Filter Regulator

PART NUMBER	PORT SIZE
K96075	3/4" NPT
K96050	1/2" NPT



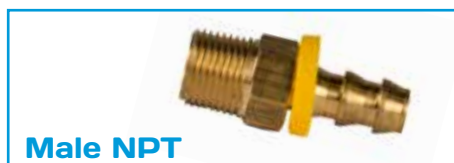
Push on rubber hose

PART NUMBER	SIZE	LENGTH
F0238-160	3/8"	160 ft.
F0238-FT	3/8"	By the ft.
F0250-160	1/2"	160 ft.
F0250-FT	1/2"	By the ft.



Female Swivel NPT

PART NUMBER	HOSE SIZE	THREAD SIZE
F0243	3/8"	1/4" NPT
F0244	3/8"	1/2" NPT
F0252	1/2"	1/2" NPT



Male NPT

PART NUMBER	HOSE SIZE	THREAD SIZE
F0240	3/8"	1/4" NPT
F0241	3/8"	3/8" NPT
F0242	3/8"	1/2" NPT
F0251	1/2"	1/2" NPT



Hose Reel

PART NUMBER	SIZE	LENGTH
R-03050	3/8"	50 ft.
R-03075	3/8"	75 ft.
R-05050	1/2"	50 ft.
R-05100	1/2"	100 ft.



Aluminum Manifolds

PART NUMBER	INLET SIZE	# OF PORTS	OUTLET PORTS
H-50-25-4	1/2" NPT	4	1/4" NPT
H-50-25-5	1/2" NPT	5	1/4" NPT
H-50-50-4	1/2" NPT	4	1/2" NPT
H-50-50-5	1/2" NPT	5	1/2" NPT
H-75-50-3	3/4" NPT	3	1/2" NPT
H-75-50-4	3/4" NPT	4	1/2" NPT
H-75-50-5	3/4" NPT	5	1/2" NPT
H-75-75-3	3/4" NPT	3	3/4" NPT
H-75-75-4	3/4" NPT	4	3/4" NPT
H-75-75-5	3/4" NPT	5	3/4" NPT
H-100-75-3	1" NPT	3	3/4" NPT
H-100-75-4	1" NPT	4	3/4" NPT
H-100-75-5	1" NPT	5	3/4" NPT

Moisture Separator Filter



Moisture Separator 230 psi Max, 35°F -176°F

M=Remove water up to one quart per minute, auto float drain

Pressure Regulator

R=Pressure Regulator, adjustable to 125 psi

Compressed Air Filters 230 psi Max, 35°F -176°F ISO8573.1:2010

	PARTIAL REMOVAL MICRON	OIL REMOVAL PPM	GAUGE	AUTO DRAIN
P=Pre Filter	5.0	5.0	YES	YES
X=General Purpose	1.0	0.5	YES	YES
Y=Coalescing (Oils)	0.01	0.01	YES	YES
A=Activated Carbon (Odor)	0.01	0.003	YES	YES

THREAD SIZE	FLOW RATE	M MOISTURE SEPARATOR UNIT	P FILTER UNIT	P REPLACE-MENT ELEMENT	X FILTER UNIT	X REPLACE-MENT ELEMENT	Y FILTER UNIT	Y REPLACE-MENT ELEMENT	A FILTER UNIT	A REPLACE-MENT ELEMENT
1/4" NPT	15 CFM	AM-025	AF-025P	AE-025P	AF-025X	AE-025X	AF-025Y	AE-025Y	AF-025A	AE-025A
1/2" NPT	60 CFM	AM-050	AF-050P	AE-050P	AF-050X	AE-050X	AF-050Y	AE-050Y	AF-050A	AE-050A
3/4" NPT	90 CFM	AM-075	AF-075P	AE-075P	AF-075X	AE-075X	AF-075Y	AE-075Y	AF-075A	AE-075A
1" NPT	150 CFM	AM-100	AF-100P	AE-100P	AF-100X	AE-100X	AF-100Y	AE-100Y	AF-100A	AE-100A
1½" NPT	350 CFM	AM-150	AF-150P	AE-150P	AF-150X	AE-150X	AF-150Y	AE-150Y	AF-150A	AE-150A
2" NPT	500 CFM	AM-200	AF-200P	AE-200P	AF-200X	AE-200X	AF-200Y	AE-200Y	AF-200A	AE-200A
3" NPT	1100 CFM	AM-300	AF-300P	AE-300P	AF-300X	AE-300X	AF-300Y	AE-300Y	AF-300A	AE-300A



3-Stage w/ Pressure Regulator

125 psi max outlet pressure

Point of Use Combination Units

THREAD SIZE	FLOW RATE	2 STAGE	2 STAGE W/R	3 STAGE	3 STAGE W/R	WALL MOUNT
1/4" NPT	15 CFM	AA-025MY	AA-025MYR	AA-025MYA	AA-025MYAR	AA-025W
1/2" NPT	60 CFM	AA-050MY	AA-050MYR	AA-050MYA	AA-050MYAR	AA-050W
3/4" NPT	90 CFM	AA-075MY	AA-075MYR	AA-075MYA	AA-075MYAR	AA-075W
1" NPT	150 CFM	AA-100MY	AA-100MYR	AA-100MYA	AA-100MYAR	AA-100W



Refrigerated Air Dryer – Digital Cycling

High Efficiency, Microprocessor controlled cycling 3 in 1 Heat Exchanger
Integrated Inlet Filter (X) and Outlet Filter (Y)

FLOW RATE	THREAD SIZE	PART NUMBER	VOLTS
25 CFM	1/2" NPT	RNC-0025	115v
50 CFM	3/4" NPT	RNC-0050	115v
75 CFM	3/4" NPT	RNC-0075	115v
125 CFM	1½" NPT	RNC-0125	115v

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