

MAXLINE[®]
BY RAPIDAIR

INDUSTRIAL
COMPRESSED AIR PIPING SYSTEM

1/2" - 3/4" - 1" - 2"





INDUSTRIAL

Maxline is an industrial compressed air piping system.

Installation

- Long tubing rolls allow for fewer joints
- Compression fittings reduce labor
- Bury underground or underneath concrete
- Expand or modify the system layout with each

Diverse

- Install in small shops to large manufacturing facilities
- On wall, in wall and underground applications
- Connect to any existing piping system

Air Quality-Energy Efficient

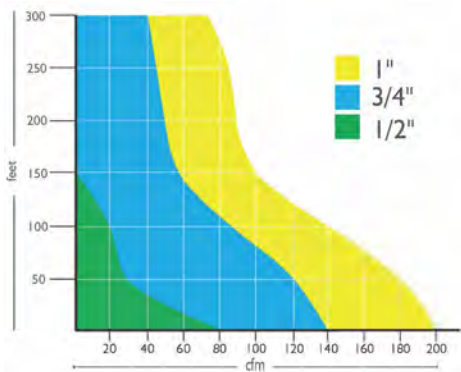
- No corrosion with HDPE tubing and nickel plated fittings
- Double o-ring design ensures leak free joints
- Efficient flowing smooth inner wall

Burial

- This product can be direct buried in the soil or under concrete
- Wrap all fittings underground and do a pressure test before covering

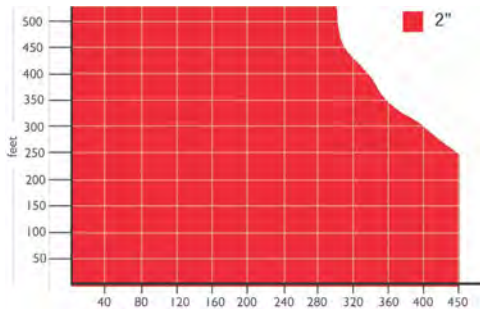


CHOOSE THE CORRECT SIZE OF MAXLINE FROM THE CHARTS BELOW LENGTH OF STRAIGHT RUN FROM COMPRESSOR OF 1/2 THE MAIN LOOP LENGTH



Theoretical flow chart based on:

- System pressure of 120 psi
- 5 psi pressure drop

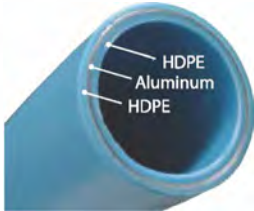


Theoretical flow chart based on:

- System pressure of 120 psi
- 5 psi pressure drop

Technical Specifications

- Working Pressure: 200 psi at 73°F, 160 psi at 140°F
- Temperature Range: -40°F to 140°F
- Compatible with common compressor oils
- Compressed air, vacuum, inert gas applications
- Can be direct buried



- 1/2", 3/4", 1", 2"
- Multi-Layer Semi Flexible tubing
- Inner and Outer Layer - HDPE
- Center Layer - Aluminum
- Sizes measured on inside diameter

Ratings

ASTM F1282
 ASTM F1974
 OSHA Compliant



Bend Radius

1/2" Tubing: 4-6 inches
 3/4" Tubing: 8-10 inches
 1" Tubing: 10-12 inches
 2" Tubing: 36-48 inches



1/2", 3/4", 1" Fittings

- Compression with split ring
- Nickel Plated Brass
- Double O-Ring: Nitrile



2" Fittings

- Crimp style
- Nickel Plated Brass Body
- Crimp Ring: Stainless Steel
- Double O-Ring: Nitrile



Spare Parts O-Ring

| Size | Part Number |
|------|-------------|
| 1/2" | M8054 |
| 3/4" | M8055 |
| 1" | M8056 |

Spare Parts Split Ring

| Size | Part Number |
|------|-------------|
| 1/2" | M8047 |
| 3/4" | M8048 |
| 1" | M8049 |

BLUE TUBING



| SIZE | PART NUMBER | OUTSIDE | INSIDE | LENGTH |
|------|-------------|---------|---------|--------|
| 1/2" | M6026 | .63 in | .50 in | 100 ft |
| 1/2" | M6027 | .63 in | .50 in | 300 ft |
| 3/4" | M6030 | .98 in | .80 in | 100 ft |
| 3/4" | M6031 | .98 in | .80 in | 300 ft |
| 1" | M6032 | 1.26 in | 1.02 in | 100 ft |
| 1" | M6033 | 1.26 in | 1.02 in | 300 ft |
| 2" | M6520 | 2.50 in | 2.00 in | 200 ft |

GREEN TUBING



| SIZE | PART NUMBER | OUTSIDE | INSIDE | LENGTH |
|------|-------------|---------|---------|--------|
| 1/2" | M6026G | .63 in | .50 in | 100 ft |
| 1/2" | M6027G | .63 in | .50 in | 300 ft |
| 3/4" | M6030G | .98 in | .80 in | 100 ft |
| 3/4" | M6031G | .98 in | .80 in | 300 ft |
| 1" | M6032G | 1.26 in | 1.02 in | 100 ft |
| 1" | M6033G | 1.26 in | 1.02 in | 300 ft |

MOUNT CLIPS - 10 pack



| SIZE | PART NUMBER | SPACING |
|------|-------------|---------|
| 1/2" | M8064 | 3 ft |
| 3/4" | M8065 | 5 ft |
| 1" | M8066 | 5 ft |

STRUT CLAMP (for 1/8" strut)



| SIZE | PART NUMBER | SPACING |
|------|-------------|---------|
| 1/2" | ST010T062 | 3 ft |
| 3/4" | F0022 | 5 ft |
| 1" | ST035NP100 | 5 ft |
| 2" | ST068T250 | 8 ft |

1/2' MASTER KIT



| SIZE | PART NUMBER | LENGTH |
|------|-------------|--------|
| 1/2" | M3800 | 100 ft |

3/4' MASTER KIT



| SIZE | PART NUMBER | LENGTH |
|------|-------------|--------|
| 3/4" | M7500 | 100 ft |
| 3/4" | M7580 | 300 ft |

1/2" - 3/4" - 1" FITTINGS

UNION



| SIZE | PART NUMBER |
|-------------|-------------|
| 1/2" x 1/2" | M8021 |
| 1/2" x 3/4" | M8024 |
| 1/2" x 1" | M8020 |
| 3/4" x 3/4" | M8022 |
| 3/4" x 1" | M8025 |
| 1" x 1" | M8023 |

REDUCING TEE



| SIZE | PART NUMBER |
|--------------------|-------------|
| 3/4" x 1/2" x 3/4" | M8014 |
| 1" x 1/2" x 1" | M8016 |
| 1" x 3/4" x 1" | M8018 |

ELBOW



| SIZE | PART NUMBER |
|------|-------------|
| 1/2" | M8080 |
| 3/4" | M8067 |
| 1" | M8068 |

REDUCING TEE FEMALE NPT



| SIZE | PART NUMBER |
|------------------------|-------------|
| 1/2" x 1/2" NPT x 1/2" | M8019 |
| 3/4" x 1/2" NPT x 3/4" | M8078 |
| 1" x 3/4" NPT x 1" | M8089 |

TEE



| SIZE | PART NUMBER |
|------|-------------|
| 1/2" | M8010 |
| 3/4" | M8011 |
| 1" | M8012 |

INLINE VALVE



| SIZE | PART NUMBER |
|------|-------------|
| 1/2" | M8038 |
| 3/4" | M8039 |
| 1" | M8040 |

CROSS



| SIZE | PART NUMBER |
|------|-------------|
| 1/2" | M8041 |
| 3/4" | M8042 |
| 1" | M8043 |

1/2" - 3/4" - 1" FITTINGS

Nickle Plated Brass

MALE NPT



| SIZE | PART NUMBER |
|-----------------|-------------|
| 1/2" x 3/8" NPT | M8001 |
| 1/2" x 1/2" NPT | M8002 |
| 3/4" x 1/2" NPT | M8005 |
| 3/4" x 3/4" NPT | M8003 |
| 1" x 3/4" NPT | M8015 |
| 1" x 1" NPT | M8004 |

MALE NPT ELBOW



| SIZE | PART NUMBER |
|-----------------|-------------|
| 1/2" x 1/2" NPT | M8085 |
| 1/2" x 1/2" NPT | M8086 |
| 3/4" x 3/4" NPT | M8088 |
| 1" x 1" NPT | M8090 |

FEMALE NPT



| SIZE | PART NUMBER |
|-----------------|-------------|
| 1/2" x 1/2" NPT | M8006 |
| 3/4" x 3/4" NPT | M8007 |

END CAP



| SIZE | PART NUMBER |
|------|-------------|
| 1/2" | M8026 |
| 3/4" | M8027 |
| 1" | M8028 |

STAINLESS STEEL MALE NPT



| SIZE | PART NUMBER |
|-----------------|-------------|
| 1/2" x 1/2" NPT | M8030 |
| 3/4" x 3/4" NPT | M8031 |
| 1" x 1" NPT | M8032 |

STAINLESS STEEL TEE



| SIZE | PART NUMBER |
|------|-------------|
| 1/2" | M8033 |
| 3/4" | M8034 |
| 1" | M8035 |

2" FITTINGS

UNION



| SIZE | PART NUMBER |
|-------------|-------------|
| 2" X 2" NPT | M8525 |

MALE NPT



| SIZE | PART NUMBER |
|-------------|-------------|
| 2" X 1" NPT | M8541 |
| 2" X 2" NPT | M8542 |

ELBOW



| SIZE | PART NUMBER |
|------|-------------|
| 2" | M8535 |

SPARE PARTS O-RING

| SIZE | PART NUMBER |
|------|-------------|
| 2" | M8559 |

TEE



| SIZE | PART NUMBER |
|------|-------------|
| 2" | M8530 |

SPARE CRIMP SLEEVE



| SIZE | PART NUMBER |
|------|-------------|
| 2" | M8549 |

REDUCING TEE FEMALE NPT



| SIZE | PART NUMBER |
|------------------|-------------|
| 2" X 1" NPT x 2" | M8531 |



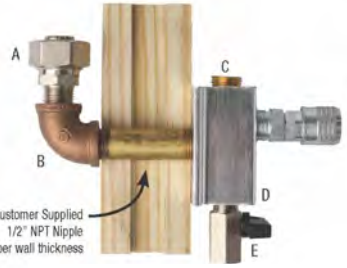
SINGLE PORT OUTLET

| SIZE | PART NUMBER | OUTLET |
|------|-------------|----------|
| 1/2" | M3810 | 1/4" NPT |
| 3/4" | M7510 | 1/2" NPT |



SINGLE PORT OUTLET WITH SHUTOFF

| SIZE | PART NUMBER | OUTLET |
|------|-------------|----------|
| 1/2" | M3810V | 1/4" NPT |
| 3/4" | M7510V | 1/2" NPT |



THRU WALL OUTLET

| SIZE | PART NUMBER | OUTLET |
|------|-------------|----------|
| 1/2" | M3810W | 1/4" NPT |
| 3/4" | M7510W | 1/2" NPT |

(Kit includes A,B,C,D,E)



DUAL PORT OUTLET

| SIZE | PART NUMBER | OUTLET |
|------|-------------|--------------|
| 1/2" | M8200 | 1/2" NPT x 4 |
| 3/4" | M8201 | 1/2" NPT x 4 |
| 1" | M8203 | 1/2" NPT x 4 |



DUAL PORT OUTLET WITH SHUTOFF

| SIZE | PART NUMBER | OUTLET |
|------|-------------|--------------|
| 1/2" | M8200V | 1/2" NPT x 4 |
| 3/4" | M8201V | 1/2" NPT x 4 |
| 1" | M8203V | 1/2" NPT x 4 |



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

| INDUSTRIAL STYLE | DIMENSION | A | | B | |
|------------------|-----------|----------|----------|-------|--------|
| | | 30 CFM | 1/4 BODY | 5/16" | 3/16" |
| | 70 CFM | 3/8 BODY | 7/16" | 5/16" | type H |

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 |

Modular Aluminum Compressed Air Piping



3/4" thru 6" sizes
Straight Rigid Pipe 20 ft Pieces
Compression Fittings

FASTPIPE FITTINGS DO NOT INTERCHANGE
DIRECTLY WITH MAXLINE, BUT CAN BE DONE
WITH PIPE THREAD ADAPTER FITTINGS



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 |

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 | LENGTH |
|-------------|-----------|----------|
| 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 PORT |
|-------------|------------|------------|-------------|
| 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 |


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 Maxline in direct sunlight, cover or paint the tubing to protect from UV exposure
- Keep children away from the system



Maxline is not designed:

- To be glued
- To take violent impacts
- To be used where the compressed air temperature is above 140 deg 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

MAXLINE INSTALLATION TIPS AND RECOMMENDATIONS:

MAXLINE INSTALLATION TRAINING: Care must be taken on any installation of the Maxline system. Tubing will be carrying compressed air/gas up to 200 psi. The Maxline 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:

Each shipment will contain installation instructions, if you do not receive them please call immediately 800-954-3310. Videos can be found at www.rapidairproducts.com **We strongly recommend that the installer contact our tech department for installation questions PRIOR to the installation**

- CUT the tubing **STRAIGHT** with the supplied cutter ;do not use a hacksaw
- CHAMFER** the end of the tubing with the supplied tool. When pushing the tubing into the fitting, the o-ring must insert smoothly. If the end of the tube is sharp, it will cut the o-ring and **CAUSE LEAKS**. Use a spray bottle with a couple of drops of dish soap and fill it with water for lubrication.
- TUBING** must be **INSERTED** into the fitting fully to the shoulder inside
- Fitting nuts must be tightened to a minimum of **3/4 OF A TURN**
- Support the tubing with clips / hangers
- TUBING can be **BENT** to conform around obstacles, be careful not to kink the tubing
- Any machine/compressor plumbed to the system must have a **JUMPER HOSE** to reduce vibration
- DO NOT USE** for **PULSING** desiccant dryers or other like equipment
- CAUTION** installing inert gas bulk systems, gas must be warmed up to the tubing temperature range
- 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 **WALL OUTLET** which can be secured to a wall or post. Any hoses or tubing attached in the ceiling area to a fitting must use a strain relief attached to the building structure
- Assemble all NPT **PIPE THREADS** with two wraps of Teflon tape and then pipe sealant which prevents thread galling
- CHECK** that all fittings are tightened before pressurizing the system for the first time
- For initial installation, pressurize system **SLOWLY** to 50psi and check for leaks, then pressurize slowly to MAX 200 psi
- AFTER 24 HOURS** of being pressurized, depressurize the system and **RETIGHTEN** the compression nuts
- 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**

1/2" - 3/4" - 1"

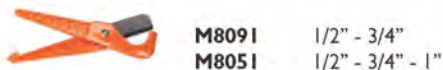
Tools and installation

-  1) CUT the tubing square with the cutter, **ROTATING** wrist while cutting.
-  2) BEVEL the inside of the tubing by inserting the reaming tool and rotating it at least 3 full turns. Remove nut and split ring from fitting and place on tubing.
-  3) PUSH the fitting onto the tubing and fully **against the shoulder** of the fitting (soapy water will help this process).
-  4) TURN the nut finger tight. Put a reference mark on the nut and fitting body.
-  5) TIGHTEN nut with wrench a minimum of 3/4 of a turn or until tight.

BEVEL TOOL



CUTTER



BENDER TOOL



STRAIGHTENING TOOL



2"

Tools and installation

-  1) CUT the tubing square, with the wheeltype cutter, apply extra pressure so wheel does not walk out of cut groove.
-  2) APPLY soapy water to the ALUMINUM plunger. Use a soft hammer to pound the plunger into the tubing and back out again (this makes the tubing round after cutting).
-  3) BEVEL the inside of the tubing with the reaming tool. Rotating repeatedly until a large chamfer forms.
-  4) APPLY soapy water to the fitting and tubing end. Put crimp sleeve on the tubing, and push fitting stem into the tubing fully.
-  5) CRIMP fitting 3 times with hydraulic tool, each 120 degrees apart.
-  6) COMPLETED crimp.

BEVEL TOOL



CUTTER



CRIMP TOOL



RapidAir System Designer

Design your air system in minutes!

Design

Preview in 3D

Order Your Parts Online!

GET STARTED >

