ENGINEERED FOR SUPERIOR PERFORMANCE

Compressed Air & Gas Systems

Catalog

AIRpipe

AIRpipe specializes in solutions for compressed air and fluids distribution. Throughout the last 13 years we have continued to invest in R&D; taking into account market feedback and real-world conditions. Our products are engineered to be the most superior available - Advancing the compressed air & gas piping industry.

AIRpipe maintains a >300,000 sq ft campus for manufacturing, R&D, and logistics. We are committed to being your total system solutions provider.

Competitive Advantage

Superior Reliability & Longevity

- Highly-durable materials resistant to corrosion, vibration, thermal variation, and outdoor weather conditions.
- Metal clamshell connectors for all diameters are stronger and more durable versus polymer fittings.
- Unique grab ring design (20-50mm) and lugged ring (63-200mm) allows for zero risk of disconnection
- Patented active concentric seals provide leak-free performance. even in high vibration applications. Seal lifespan is double that of industry competitors.

Energy & Cost Savings

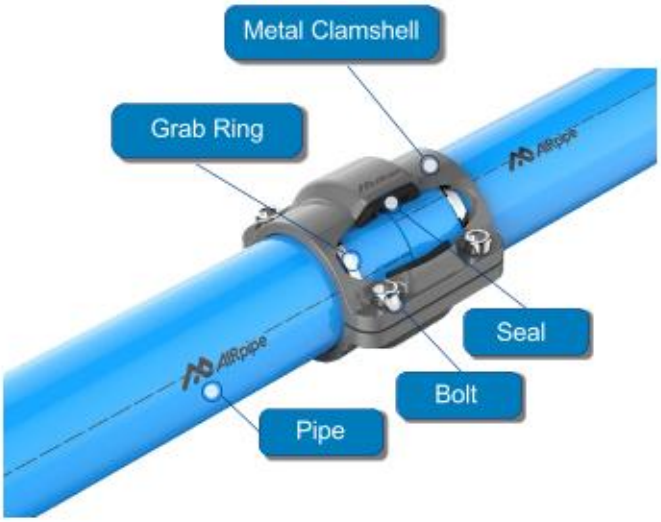
- The smooth interior design and high-flow connectors ensures a constant supply of clean air at a reduced pressure drop, resulting in significant energy savings.
- Guaranteed leak-free performance and superior longevity versus traditional pipe systems.

Quick & Easy Modular Installation

- Complete range of pipe, fittings and accessories works easily for new projects renovations & extensions.
- Requires no special tooling, welding, gluing, brazing, soldering, or thread cutting.
- Reusable, lightweight, and modular design allows for easy modifications.
- Quick drops can be added at any time to create new points of use.

Technical Specifications

Innovative modular technology enables rapid and easy assembly via quick connection of fittings to the aluminum pipe. This technology takes into account the specific requirement of each diameter to provide the user with a secure connection.



Grab Ring Clamping Style Connection

3/4'' to 2''

- Metal clamshell union connector, quick install & reassembly.
- Grab ring with surface contact, no shrinking on inner diameter.
- Surface contact, active concentric sealing, leak free.
- Superior reliability & longevity.

Lugged Ring Clamping Style Connection

2-1/2'' to 10''

- Metal clamshell union connector, quick install & reassembly.
- Convex ring, no shrinking on inner diameter.
- Surface contact, active concentric sealing, leak free.
- Superior reliability & longevity.

Suitable Fluids

- Compressed air (dry, wet, lubricated)
- Vacuum
- Inert gases (including Argon, Helium, Nitrogen, CO2 mixes)

* Contact factory for process liquids and chemicals.

Max. Working Pressure & Temp

- Max. working pressure:
  - 300 psi for 3/4" to 2" sizes
  - 232 psi for 2 1/2" to 6" sizes
  - 188 psi for 8" and 10" sizes
- -4°F to +176°F

* Higher temperature seal options are available.

Vacuum

- Vacuum: 29.9 inHg (99% vacuum)

Resistance to

- Corrosion
- Aggressive environments
- Mechanical shocks
- Thermal variations
- Ultraviolet (U.V.)
- Compressor oil carry over (mineral/ synthetic)

Recyclability

- 100% recyclable

Linear Branch (Straight Run) - System Sizing Chart

Flow Rate (SCFM)	Equivalent Length (feet)									
	50'	150'	300'	400'	500'	1000'	2000'	3000'	4000'	5000'
10	¾''	¾''	¾''	¾''	¾''	¾''	¾''	1''	1''	1''
25	¾''	¾''	¾''	¾''	1''	1''	1 ½''	1 ½''	1-½''	1-½''
50	¾''	1''	1''	1''	1 ½''	1 ½''	1 ½''	1 ½''	1-½''	2''
75	¾''	1''	1 ½''	1 ½''	1 ½''	1 ½''	1 ½''	2''	2''	2''
100	1''	1 ½''	1 ½''	1 ½''	1 ½''	1 ½''	2''	2''	2-½''	2-½''
150	1''	1 ½''	1 ½''	1 ½''	1 ½''	2''	2-½''	2-½''	2-½''	2-½''
250	1 ½''	1 ½''	2''	2''	2''	2 ½''	2-½''	2-½''	3''	3''
500	1 ½''	2''	2 ½''	2 ½''	2 ½''	2 ½''	3''	3''	4''	4''
750	2''	2 ½''	2 ½''	3''	3''	3''	4''	4''	4''	6''
900	2''	2 ½''	3''	3''	3''	3''	4''	6''	6''	6''
1000	2''	2-½''	3''	3''	3''	4''	4''	6''	6''	6''
1350	2 ½''	2-½''	3''	3''	3''	4''	6''	6''	6''	6''
1500	2 ½''	3''	3''	3''	4''	4''	6''	6''	6''	6''
3500	3''	4''	6''	6''	6''	6''	8''	8''	8''	8''
4650	3''	6''	6''	6''	6''	6''	8''	8''	8''	10''
6500	4''	6''	6''	6''	6''	8''	8''	10''	10''	10''
9500	6''	6''	6''	6''	8''	8''	10''	10''	10''	10''

Looped Installation - System Sizing Chart

Flow Rate (SCFM)	Equivalent Length (feet)									
	50'	150'	300'	400'	500'	1000'	2000'	3000'	4000'	5000'
10	¾''	¾''	¾''	¾''	¾''	¾''	¾''	¾''	¾''	¾''
25	¾''	¾''	¾''	¾''	¾''	¾''	1''	1''	1''	1''
50	¾''	¾''	¾''	¾''	1''	1''	1''	1-½''	1-½''	1-½''
75	¾''	¾''	1''	1''	1''	1-½''	1-½''	1-½''	1-½''	1-½''
100	¾''	1''	1''	1''	1-½''	1-½''	1-½''	1-½''	1-½''	2''
150	¾''	1''	1-½''	1-½''	1-½''	1-½''	1-½''	2''	2''	2''
250	1-½''	1-½''	1-½''	1-½''	1-½''	2''	2''	2-½''	2-½''	2-½''
500	1-½''	1-½''	2''	2''	2''	2-½''	2-½''	2-½''	3''	3''
750	1-½''	2''	2''	2-½''	2-½''	2-½''	3''	3''	3''	3''
900	1-½''	2''	2-½''	2-½''	2-½''	2-½''	3''	3''	3''	4''
1000	1-½''	2''	2-½''	2-½''	2-½''	2-½''	3''	3''	4''	4''
1350	2''	2-½''	2-½''	2-½''	2-½''	3''	4''	4''	4''	6''
1500	2''	2-½''	2-½''	2-½''	3''	3''	4''	4''	4''	6''
3500	2-½''	3''	3''	3''	4''	4''	6''	6''	6''	6''
4200	3''	3''	4''	4''	4''	6''	6''	6''	6''	8''
6500	3''	4''	6''	6''	6''	6''	6''	8''	8''	8''
9500	3''	6''	6''	6''	6''	6''	8''	8''	8''	10''

- Both Charts Consider 100 psi, and less than a 5% Pressure Drop.

* Note: visit www.airpipeusa.com to use our interactive sizing tool.

Warranty and Certifications

10 Year Limited Warranty

- AIRpipe USA warranties its products to be free of defects in Material and workmanship for a period of ten years from the date of product purchase. No other warranties, express or implied are made by AIRpipe USA. This limitation explicitly excludes any implied warranty of merchantability or fitness for a particular purpose. The sole remedy for breach of this warranty of material and workmanship or for negligence in manufacture or design is limited to replacement or repair, at the sole digression of AIRpipe USA. In no event shall AIRpipe USA, it's parent, and sister companies be liable for indirect, special, incidental or consequential damages of any kind. No allowance will be made for repairs made by the purchaser.

- AIRpipe USA does not warrant the design, assembly or installation of the system, but only the components listed within AIRpipe USA's price list. AIRpipe USA is not responsible for improper assembly, installation, or for any modifications of the product

  The warranty is void upon

  (a) Failure to follow assembly or installation guidelines;

  (b) Alteration, misuse or abuse of, or damage to the products;

  (b) Operation beyond the design range, excessive pressure, stress, or mishandling in any way;

  (d) Use other than for the intended purpose or in a manner other than specified by AIRpipe USA.

Engineering Standards:

- ASME B31.1 & B31.3
- UL94HB
- UL94V-2
- TUV
- CE & EN
- PED 2014/68/EU
- TS
- ASTM B241, EN755-8, GB/T4437.1-2000, JIS H4080

Certifications and Compliances:

- ISO 9001 version 2000
- ISO 14001 version 2004
- ISO 8573-1 version 2010
- ASME, UL, TUV, CRN, CE, EN and TS

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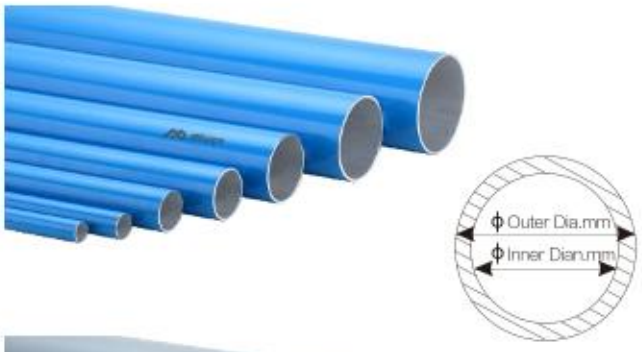
Rigid Aluminum Pipe

- Clean air certified (ISO 8573-1)
- ASME/UL
- Optimum flow performance
- Lightweight
- High quality powder coated exterior
- Extruded aluminum
- Suitable for Compressed air, oil-free or lubricated vacuum, and inert gasses (Nitrogen, Argon, Helium)

- Max working pressure
  300 psi for 3/4" to 2" sizes
  232 psi for 2-1/2" to 6" sizes
  188 psi for 8" and 10" sizes
- Vacuum: 29.9 inHg (99% vacuum)
- Working temperature: -4 up to +176

Blue / Grey / Green



*Other colors, please consult us.

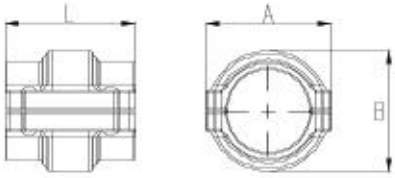
AIRpipe	Outer Diameter (in)	OD(in)	ID(in)	L(ft)
1000	¾"	0.79"	0.70"	19
2000	1"	0.99"	0.90"	19
4000	1 ½"	1.58"	1.45"	19
5000	2"	1.97"	1.83"	19
6000	2 ½"	2.66"	2.50"	19
7000	3"	3.34"	3.17"	19
8000	4"	4.01"	3.81"	19
9000	6"	6.02"	5.81"	19
A000	8"	8.07"	7.79"	19
1062	¾"	0.79"	0.70"	19
2062	1"	0.99"	0.90"	19
4062	1 ½"	1.58"	1.45"	19
5062	2"	1.97"	1.83"	19
6062	2 ½"	2.66"	2.50"	19
7062	3"	3.34"	3.17"	19
8062	4"	4.01"	3.81"	19
9062	6"	6.02"	5.81"	19
A062	8"	8.07"	7.79"	19
1061	¾"	0.79"	0.70"	19
2061	1"	0.99"	0.90"	19
4061	1 ½"	1.58"	1.45"	19
5061	2"	1.97"	1.83"	19
6061	2 ½"	2.66"	2.50"	19
7061	3"	3.34"	3.17"	19
8061	4"	4.01"	3.81"	19
9061	6"	6.02"	5.81"	19
A061	8"	8.07"	7.79"	19
M000	10"	10.75"	10.51"	19

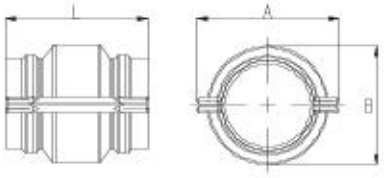
*M000 material: Stainless steel 304.

Connectors

- Quick connection
- Superior reliability & longevity
- Designed for extreme environments
- Modular and reusable
- 100% recyclable and non-flammable materials (UL94-HB Standard)
- Viton seals for high temperature applications are available

Pipe to Pipe Connector





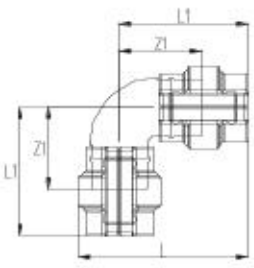
AIRpipe	OD(in)	L	A	B	Z	Allen Bit Size (mm)
1002	¾"	2.32"	1.81"	1.54"	1.16"	5
2002	1"	2.32"	2.01"	1.73"	1.16"	5
4002	1 ½"	3.07"	2.72"	2.36"	1.54"	5
5002	2"	3.15"	3.19"	2.91"	1.54"	5

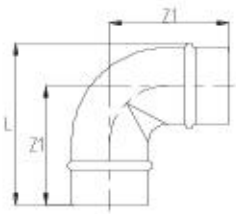
*Viton seals for high temperature applications are available

AIRpipe	OD(in)	L	A	B	Allen Bit Size
6002	2 ½"	4.49"	4.45"	3.82"	6
7002	3"	4.49"	5.39"	4.49"	6
8002	4"	5.31"	5.94"	5.16"	6
9002	6"	5.75"	8.82"	7.24"	8
A002	8"	5.5"	11.02"	9.29"	8
M002	10"	4.72"	14.90"	11.96"	

*M002 material: Stainless steel 304.
*Viton seals for high temperature applications are available.
*The M002 doesn't have an Allen bit.it has a socket size of 19mm not the same as an Allen bit M002 actually has 19mm hex bolts.

Equal 90° Elbow



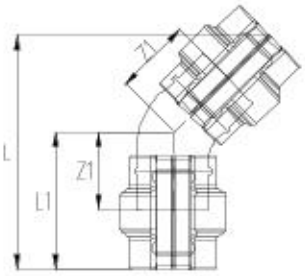


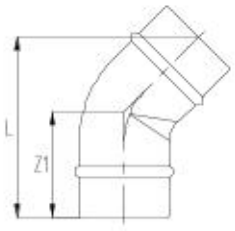
AIRpipe	OD(in)	L1	L	Z1
1003	¾"	3.15"	3.90"	2.01"
2003	1"	3.27"	4.13"	2.13"
4003	1 ½"	4.29"	5.47"	2.76"
5003	2"	4.57"	6.02"	3.04"

AIRpipe	OD(in)	L	Z1
6003	2 ½"	5.63"	4.13"
7003	3"	6.14"	4.33"
8003	4"	7.64"	5.51"
9003	6"	10.39"	7.28"
A003	8"	12.32"	8.19"
M003	10"	19.02"	13.50"

* Supplied with (2) union connectors.
* M003 material: Stainless steel 304.

Equal 45° Elbow



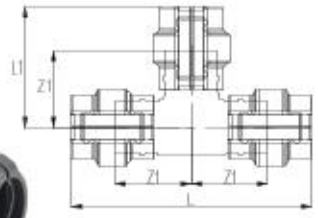


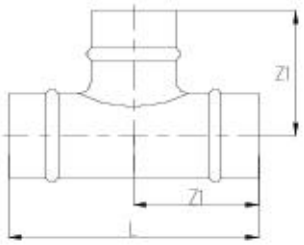
AIRpipe	OD(in)	L	L1	Z1
1004	¾"	4.69"	2.76"	1.62"
2004	1"	4.76"	2.80"	1.66"
4004	1 ½"	6.26"	3.66"	2.13"
5004	2"	6.46"	3.78"	2.25"

AIRpipe	OD(in)	L	Z1
6004	2 ½"	7.09"	4.05"
7004	3"	7.59"	4.33"
8004	4"	8.43"	4.80"
9004	6"	10.16"	5.75"
A004	8"	9.06"	5.11"
M004	10"	14.17"	8.27"

* Supplied with (2) union connectors.
* 6004,7004,8004,9004,M004 material: Stainless steel 304.

Equal Tee



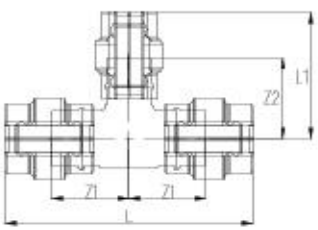


AIRpipe	OD(in)	L	L1	Z1
1005	¾"	6.26'	3.15"	2.01"
2005	1"	6.54"	3.3"	2.16"
4005	1 ½"	6.60"	4.29"	2.76"
5005	2"	9.13"	4.57"	3.04"

AIRpipe	OD(in)	L	Z1
6005	2 ½"	8.26"	4.13"
7005	3"	8.66"	4.33"
8005	4"	11.02"	5.51"
9005	6"	14.57"	7.28"
A005	8"	16.34"	8.17"
M005	10"	17.91"	8.95"

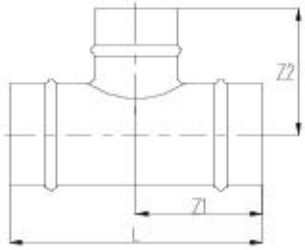
* Supplied with (3) union connectors.
* M005 material: Stainless steel 304.

Reducing Tee



AIRpipe	Main Pipe OD	Reducing Pipe Size	L	Z1	Z2	L1
2107	1"	¾"	6.32"	1.93"	2.01"	3.23"
4207	1 ½"	1"	7.95"	2.38'	2.34"	3.58"
5207	2"	1"	8.46"	2.56"	2.74"	3.82"
5407	2"	1 ½"	8.78"	2.74"	2.87"	4.47"

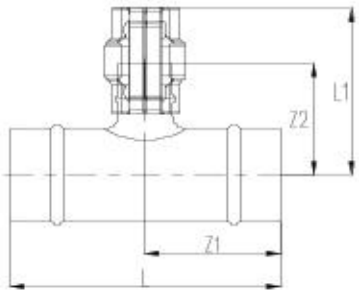
Reducing Tee



AIRpipe	Main Pipe OD	Reducing Pipe Size	L	Z1	Z2
7607	3"	2 ½"	8.66"	4.33"	4.33"
8607	4"	2 ½"	9.68"	4.84"	4.65"
8707	4"	3"	9.68"	4.84"	4.76"
9607	6"	2 ½"	9.53"	4.72"	6.00"
9707	6"	3"	10.31"	5.16"	5.79"
9807	6"	4"	10.71"	5.35"	6.38"
A607	8"	2 ½"	9.41"	4.72"	6.69"
A707	8"	3"	10.04"	5.04"	6.73"
A807	8"	4"	10.83"	5.43"	6.73"
A907	8"	6"	13.58"	6.77"	7.20"
MA07	10"	8"	15.03"	7.52"	9.92"

* Supplied with (3) union connectors.
* MA07 material: Stainless steel 304.

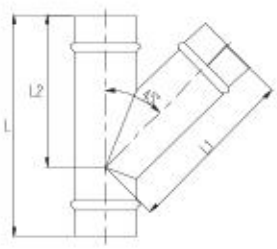
Reducing Tee (2" & 1-1/2")



AIRpipe	Main Pipe OD	Reducing Pipe Size	L	Z1	L1	Z2
6407	2 ½"	1 ½"	8.27"	4.13"	4.88"	3.35"
6507	2 ½"	2"	8.27"	4.13"	4.92"	3.39"
7407	3"	1 ½"	8.66"	4.33"	5.20"	3.67"
7507	3"	2"	8.66"	4.33"	5.28"	3.75"
8507	4"	2"	8.90"	4.45"	5.59"	4.06"

* Supplied with (2) union connectors.

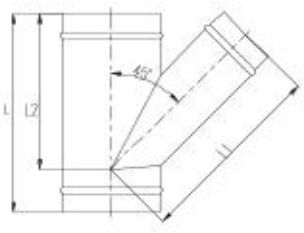
Equal Lateral Wye



AIRpipe	OD(in)	L	L1	L2
6009	2 ½"	9.37"	7.24"	6.42"
7009	3"	10.31"	8.31"	7.24"
8009	4"	12.01"	9.67"	8.39"
9009	6"	15.16"	13.38"	11.02"
A009	8"	18.07"	15.75"	13.66"

* Supplied with (3) union connectors.
* Material: Stainless Steel 304.

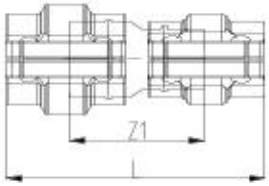
Lateral Reducing Wye



AIRpipe	Main Pipe OD	Reducing Pipe Size	L	L1	L2
8712	4"	3"	11.1"	8.9"	7.95"
9712	6"	3"	11.5"	10.87"	9.25"
9812	6"	4"	12.32"	11.81"	9.61"
A812	8"	4"	12.6"	13.35"	10.83"
A912	8"	6"	15.51"	14.84"	12.32"

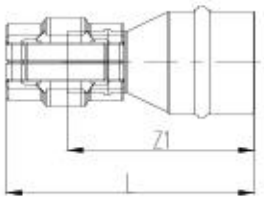
* Supplied with (3) union connectors.
* Material: Stainless Steel 304.

Reducing Pipe to Pipe Connector



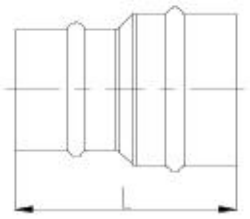
AIRpipe	Main Pipe OD	Reducing Pipe Size	L	Z1
2121	1"	¾"	5.08"	2.64"
4221	1 ½"	1"	6.14"	3.31"
5221	2"	1"	6.30"	3.82"
5421	2"	1 ½"	6.81"	3.58"

Reducing Pipe to Pipe Connector



AIRpipe	Main Pipe OD	Reducing Pipe Size	L	Z1
6421	2 ½"	1 ½"	6.50"	4.88"
6521	2 ½"	2"	6.26"	4.61"
7521	3"	2"	6.26"	4.61"

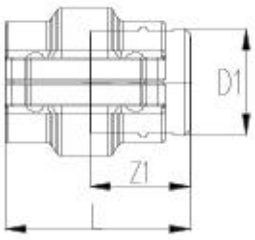
* Supplied with (1) union connector.



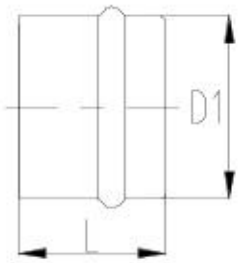
AIRpipe	Main Pipe OD	Reducing Pipe Size	L
7621	3"	2 ½"	5.47"
8621	4"	2 ½"	5.98"
8721	4"	3"	5.55"
9721	6"	3"	6.1"
9821	6"	4"	6.77"
A921	8"	6"	7.97"
MA21	10"	8"	13.10"

* Supplied with (2) union connectors.
* MA21 material: Stainless steel 304.

End Cap



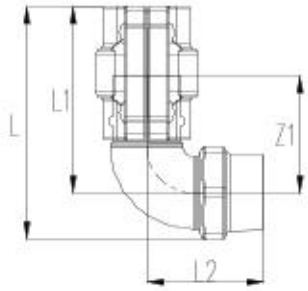
AIRpipe	OD(in)	L	D1	Z1
1006	¾"	2.80"	0.87"	1.57"
2006	1"	2.80"	1.06"	1.57"
4006	1 ½"	3.54"	1.65"	1.93"
5006	2"	3.62"	2.05"	1.97"



AIRpipe	OD(in)	L	D1
6006	2 ½"	2.17"	2.68"
7006	3"	2.17"	3.36"
8006	4"	2.76"	4.02"
9006	6"	2.76"	6.02"
A006	8"	2.76"	8.07"
M006	10"	5.0"	10.75"

* Supplied with (1) union connector.
* M006 material: Stainless steel 304.

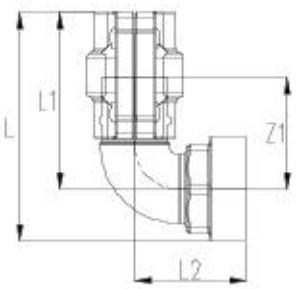
Male Threaded Elbow



AIRpipe	OD(in)	L	L1	L2	Male NPT	Z1
1015	¾"	3.78"	3.15"	1.93"	½"	2.01"
1115	¾"	3.78"	3.15"	1.93"	¾"	2.01"
2015	1"	4.06"	3.27"	1.97"	½"	2.13"
2215	1"	4.06"	3.27"	2.05"	1"	2.13"
4415	1 ½"	5.35"	4.29"	2.72"	1 ½"	2.76"
5515	2"	5.83"	4.57"	2.87"	2"	3.04"

* Note: Suitable for connecting to air compressors, dryers, and filters.

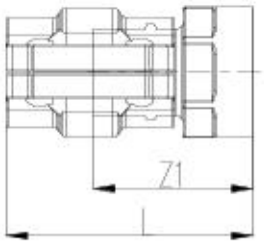
Female Threaded Elbow



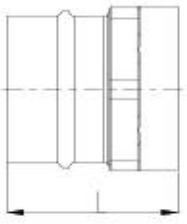
AIRpipe	OD(in)	L	L1	L2	Female NPT	Z1
1013	¾"	3.86"	3.15"	1.93"	½"	2.01"
1113	¾"	3.86"	3.15"	1.93"	¾"	2.01"
2013	1"	4.17"	3.27"	1.97"	½"	2.13"
2213	1"	4.17"	3.27"	2.05"	1"	2.13"
4413	1 ½"	5.54"	4.25"	2.72"	1 ½"	2.72"
5513	2"	6.02"	4.57"	2.87"	2"	3.04"

* Note: Suitable for connecting to air compressors, dryers, and filters.

Female Threaded Adapter



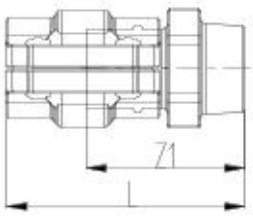
AIRpipe	OD(in)	L	Female NPT	Z1
1019	¾"	3.31"	½"	2.09"
1119	¾"	3.50"	¾"	2.28"
2019	1"	3.27"	½"	2.05"
2219	1"	3.58"	1"	2.36"
4419	1 ½"	4.49"	1 ½"	2.91"
5519	2"	4.61"	2"	3.03"



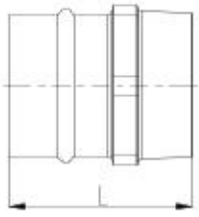
AIRpipe	OD(in)	L	Female NPT
6619	2 ½"	3.70"	2 ½"
7719	3"	3.98"	3"

* Supplied with (1) union connector.

Male Threaded Adapter



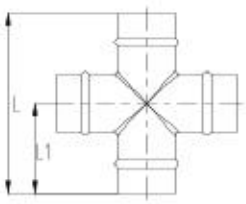
AIRpipe	OD(in)	L	Z1	Male NPT
1017	¾"	3.66"	2.52"	½"
1117	¾"	3.62"	2.48"	¾"
2017	1"	3.62"	2.48"	½"
2117	1"	3.66"	2.52"	¾"
2217	1"	3.78"	2.64"	1"
4217	1 ½"	4.80"	3.27"	1"
4317	1 ½"	4.80"	3.27"	1 ¼"
4417	1 ½"	4.84"	3.31"	1 ½"
4517	1 ½"	5.20"	3.67"	2"
5417	2"	4.88"	3.35"	1 ½"
5517	2"	5.04"	3.51"	2"



AIRpipe	OD(in)	L	Male NPT
6517	2 ½"	3.98"	2"
6617	2 ½"	4.06"	2 ½"
7617	3"	4.21"	2 ½"
7717	3"	4.45"	3"

* Supplied with (1) union connector.

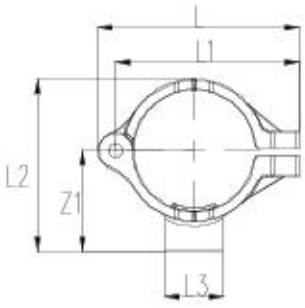
Cross Fitting



AIRpipe	OD(in)	L	L1
6007	2 ½"	8.23"	4.11"
7007	3"	9.02"	4.51 "
8007	4"	11.03"	5.51"
9007	6"	14.57"	7.28"
A007	8"	16.34"	8.17"

*Supplied with (4) union connectors.

Female Threaded Straight Quick Drop



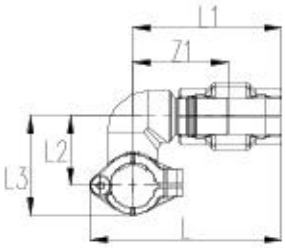
AIRpipe	Saddle Pipe OD	Female NPT	L	L1	L2	L3	Female NPT	Z1	Hole Saw Bit Size
5099	2"	½"	3.31"	2.99"	3.01"	1.3"	½"	1.92"	25
5199	2"	¾"	3.31"	2.99"	3.01"	1.3"	¾"	1.92"	25
6099	2 ½"	½"	4.45"	4.06"	3.82"	1.3"	½"	2.24"	25
6199	2 ½"	¾"	4.45"	4.06"	3.82"	1.3"	¾"	2.24"	25
7099	3"	½"	5.14"	4.74"	4.41"	1.3"	½"	2.50"	25
7199	3"	¾"	5.14"	4.74"	4.41"	1.3"	¾"	2.50"	25
8099	4"	½"	5.89"	5.49"	5.24"	1.3"	½"	2.95"	25
8199	4"	¾"	5.89"	5.49"	5.24"	1.3"	¾"	2.95"	25
9099	6"	½"	7.95"	7.56"	7.20"	1.3"	½"	3.90"	25
9199	6"	¾"	7.95"	7.56"	7.20"	1.3"	¾"	3.90"	25
A099	8"	½"	10.08"	9.29"	9.70"	1.3"	½"	5.26"	25
A199	8"	¾"	10.08"	9.29"	9.70"	1.3"	¾"	5.26"	25

Quick Drop Connectors

- All-aluminum body
- Alignment stub design for quick installation
- Optimum flow
- Captive seal

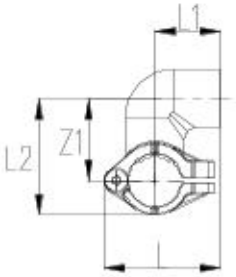
Note: the hole saw bit sizing chart is on page 27

Quick Drop



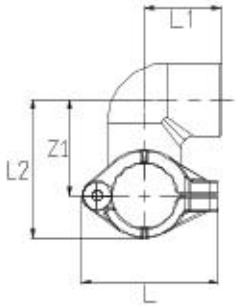
AIRpipe	Saddle Pipe OD	Saddle Drop OD	L	L1	Z1	L2	L3	Hole Saw Bit Size
2110	1"	¾"	4.37"	3.39"	2.25"	1.57"	2.24"	16
2210	1"	1"	4.37"	3.39"	2.25"	1.57"	2.24"	16
4110	1 ½"	¾"	4.96"	3.62"	2.48"	1.81"	2.80"	22
4210	1 ½"	1"	4.96"	3.62"	2.48"	1.81"	2.80"	22
5110	2"	¾"	5.12"	3.50"	2.36"	2.13"	3.35"	25
5210	2"	1"	5.12"	3.50"	2.36"	2.13"	3.35"	25
6110	2 ½"	¾"	5.39"	3.27"	2.13"	2.56"	4.13"	25
6210	2 ½"	1"	5.39"	3.27"	2.13"	2.56"	4.13"	25
7110	3"	¾"	5.71"	3.27"	2.13"	2.91"	4.84"	25
7210	3"	1"	5.71"	3.27"	2.13"	2.91"	4.84"	25
8110	4"	¾"	6.10"	3.31"	2.17"	3.82"	6.10"	25
8210	4"	1"	6.10"	3.31"	2.17"	3.82"	6.10"	25
9110	6"	¾"	7.95"	3.27"	2.13"	4.80"	8.11"	25
9210	6"	1"	7.95"	3.27"	2.13"	4.80"	8.11"	25
A210	8"	1"	10.08"	3.35"	2.21"	5.87"	10.31"	25

Female Threaded Quick Drop



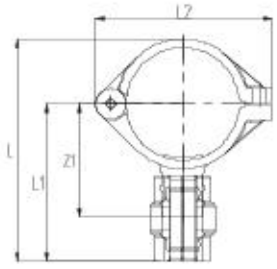
AIRpipe	Saddle Pipe OD	Female NPT	L	L1	Z1	L2	Hole Saw Bit Size
2011	1"	½"	2.24"	1.26"	1.57"	2.24"	16
4011	1 ½"	½"	2.87"	1.65"	1.81"	2.80"	22
4111	1 ½"	¾"	2.87"	1.65"	1.81"	2.80"	22
5011	2"	½"	3.31"	1.85"	2.13"	3.35"	25
5111	2"	¾"	3.31"	1.85"	2.13"	3.35"	25

Female Threaded Quick Drop



AIRpipe	Saddle Pipe OD	Female NPT	L	L1	Z1	L2	Hole Saw Bit Size
6011	2 ½"	½"	4.45"	1.85"	2.56"	4.13"	25
6111	2 ½"	¾"	4.45"	1.85"	2.56"	4.13"	25
7011	3"	½"	5.16"	1.69"	2.91"	4.84"	25
7111	3"	¾"	5.16"	1.85"	2.91"	4.84"	25
8011	4"	½"	5.91"	1.57"	3.82"	6.10"	25
9011	6"	½"	7.95"	1.57"	4.80"	8.11"	25

Straight Quick Drop

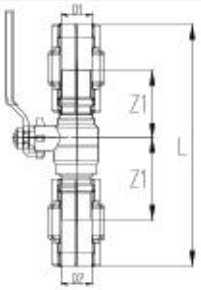


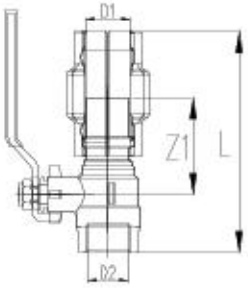
AIRpipe	Saddle Pipe OD	Saddle Drop OD	L	L1	L2	Z1	Hole Saw Bit Size
8410	4"	1 ½"	8.03"	5.67"	6.38"	4.14"	38
9410	6"	1 ½"	10.51"	7.09"	8.46"	5.56"	51
9510	6"	2"	10.55"	7.09"	8.46"	5.56"	51
A410	8"	1 ½"	12.60"	8.15"	10.59"	6.62"	51
A510	8"	2"	12.64"	8.19"	10.59"	6.66"	51

Wall Brackets & Valved Connectors

- Quick connection
- Available for BSP/NPT thread, flange and plug-in connection type
- High-flow design ensure optimal performance
- Nickel-plated brass

Quick Connect Valve





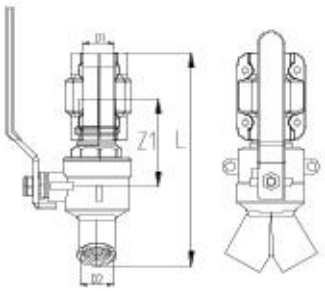
AIRpipe	OD(in)	L	Z1
1052	¾"	6.46"	2.09"
2052	1"	6.69"	2.21"
4052	1 ½"	9.13"	3.04"
5052	2"	9.63"	3.29"
6052	2 ½"	12.76"	4.10"

* Material of Valve Body: Brass.
* Locking Handle.

AIRpipe	OD(in)	Female NPT	L	Z1
1252	¾"	½"	4.13"	1.81"
2252	1"	1"	4.49"	1.97"
2452	1"	½"	4.53"	1.97"
4452	1 ½"	1 ½"	6.10"	2.83"
5552	2"	2"	6.54"	2.91"
6652	2 ½"	2 ½"	6.3"	3.78"

* Material of Valve Body: Nickel-plated Brass.
* Includes Mounting Plate and Hardware.
* Locking Handle.

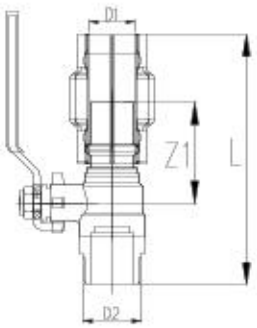
Two-port Female Wall Bracket



AIRpipe	OD(in)	Female NPT	L	Z1
1152	¾"	½"	5.28"	2.20"
2152	1"	½"	5.63"	2.32"

* Material of Valve Body: Brass.
* Includes Mounting Plate and Hardware.
* Locking Handle.

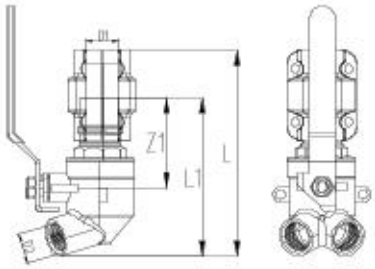
Male Threaded Quick Connect Valve



AIRpipe	OD(in)	Male NPT	L	Z1
1352	¾"	¾"	4.49"	1.81"
2352	1"	1"	4.84"	1.97"
4352	1 ½"	1 ½"	6.46"	2.83"
5352	2"	2"	7.01"	2.91"
6352	2 ½"	2 ½"	6.81"	3.78"

* Material of Valve Body: Brass.
* Locking Handle.

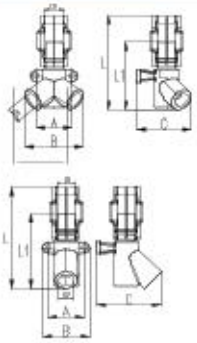
Angled Two-Port Female Wall Bracket



AIRpipe	OD(in)	L	L1	Z1	D1	Female NPT
1552	¾"	5.04"	3.82"	2.2"	½"	75° Two ports,½"
2552	1"	5.31"	4.09"	2.32"	½"	75° Two ports,½"

* Material of Valve Body: Brass.
* Includes Mounting Plate and Hardware.
* Locking Handle.

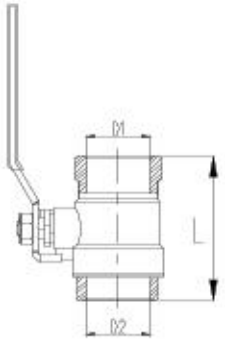
One & Two Port Angled Wall Brackets



AIRpipe	OD(in)	L	L1	A	B	C	Female NPT
1123	¾"	4.57"	3.39"	1.65"	2.17"	2.91"	45° One port,½"
2123	1"	4.57"	3.39"	1.65"	2.17"	2.91"	45° One port,½"
1023	¾"	4.29"	3.07"	1.65"	2.68"	2.48"	45° Two ports,½"
2023	1"	4.29"	3.07"	1.65"	2.68"	2.48"	45° Two ports,½"

* Material of Body: Aluminium.
* Includes a ¼" venting valve.

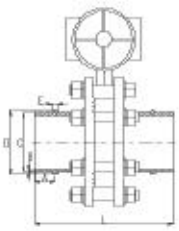
Threaded Ball Valve



AIRpipe	D1	D2	L	Thread
0073	½"	½"	2.05"	Female*Female
0173	¾"	¾"	2.24"	Female*Female
1073	½"	½"	2.40"	Male*Male
1173	¾"	¾"	2.70"	Male*Male
0273	½"	½"	2.11"	Male* Female
1273	¾"	¾"	2.30"	Male* Female
2073	1"	1"	2.72"	Female*Female
4073	1 ½"	1 ½"	3.54"	Female*Female
5073	2"	2"	4.02"	Female*Female

* Material of Valve Body: Brass.
* Locking Handle.
* Exhausting Valves are Available.

Butterfly Valve Pre-Assembled

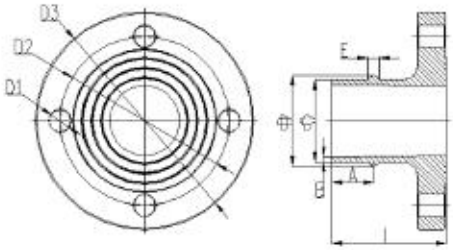


* Lever Handle: 6051, 7051, 6151, 7151
* Wheel Handle: 8051, 9051, A051, 8151, 9151, A151
* Standard Seal: NBR
* HIGH TEMPERATURE
  - High temperature seal options are available(FKM/VITON)
  - Higher Temperature Valves are available with PTFE seals (Special Order)
  - Max working temperature 392° F

AIRpipe	OD(in)	L	A	B	C	D	E	Material of valve
6051	2 ½"	9.45"	1.38"	0.12"	2.68"	2.95"	0.39"	Steel
7051	3"	9.61"	1.38"	0.12"	3.35"	3.62"	0.39"	Steel
8051	4"	10.83"	1.38"	0.16"	4.02"	4.29"	0.39"	Steel
9051	6"	11.52"	1.38"	0.16"	6.02"	6.3"	0.39"	Steel
A051	8"	11.71"	1.38"	0.24"	8.07"	8.35"	0.39"	Steel
M051	10"	13.68"	1.38"	0.12"	10.04"	10.24"	0.39"	Steel 304
6151	2 ½"	9.45"	1.38"	0.12"	2.68"	2.95"	0.39"	Stainless steel
7151	3"	9.61"	1.38"	0.12"	3.35"	3.62"	0.39"	Stainless steel
8151	4"	10.83"	1.38"	0.16"	4.02"	4.29"	0.39"	Stainless steel
9151	6"	11.52"	1.38"	0.16"	6.02"	6.3"	0.39"	Stainless steel
A151	8"	11.71"	1.38"	0.24"	8.07"	8.35"	0.39"	Stainless steel

Flange Connectors (Class 150 ANSI Flanges)

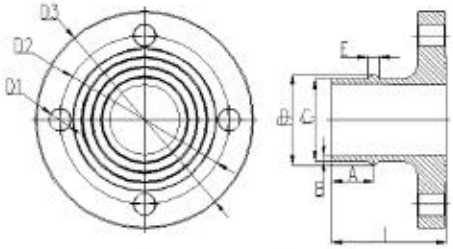
ANSI Aluminum Flange



AIRpipe	Flange Size (in)	Pipe End Size	Bolt Size	L	D1	D2	D3
6170	2 ½"	2 ½"	M16	3.74"	0.16-0.75"	5.50"	7.00"
7170	3"	3"	M16	3.82"	0.16-0.75"	6.00"	7.50"
8170	4"	4"	M16	4.33"	0.32-0.75"	7.50"	9.00"
9170	6"	6"	M20	4.61"	0.32-0.88"	9.50"	11.00"
A170	8"	8"	M20	4.61"	0.32-0.88"	11.75"	13.50"
M170	10"	10"	M24	5.43"	0.47-1.02"	14.25"	16.00"

* Includes bolts and gasket.
* Supplied with one union connector.
* 2 ½" and 3" are 4-bolt class 150 flanges.
* 4" to 8" are 8-bolt class 150 flanges.
* MA70 material: Stainless steel 304.

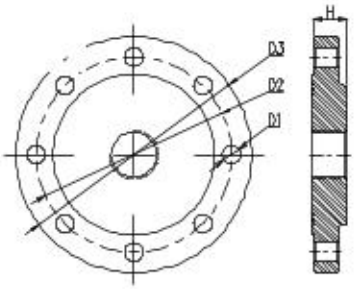
ANSI Aluminum Reducing Flange



AIRpipe	Flange Size (in)	Pipe End Size	Bolt Size	L	D1	D2	D3
7671	3"	2 ½"	M16	3.78"	0.16-0.75"	6.00"	7.48"
8671	4"	2 ½"	M16	3.78"	0.32-0.75"	7.50"	9.06"
6771	2 ½"	3"	M16	3.94"	0.16-0.75"	5.50"	7.09"
8771	4"	3"	M16	3.62"	0.32-0.75"	7.50"	9.06"
0771	5"	3"	M16	3.62"	0.32-0.88"	8.50"	10.00"
7871	3"	4"	M16	4.45"	0.16-0.75"	6.00"	7.48"
0871	5"	4"	M20	4.33"	0.32-0.88"	8.50"	10.00"
9871	6"	4"	M20	4.41"	0.32-0.88"	9.50"	11.02"
0971	5"	6"	M20	4.72"	0.32-0.88"	8.50"	10.00"
MA71	10"	8"	M24	5.20"	0.47-1.02"	14.25"	15.94"

* Includes bolts and gasket.
* Supplied with one union connector.
* 4" to 8" are 8-bolt class 150 flanges.
* MA71material: Stainless steel 304.

ANSI Female Threaded Flange



* Includes 1 gasket and 4 bolts(7cm) for 1", -½", 2", 2 ½", 3".
* Includes 1 gasket and 8 bolts(7cm) for 4", 6".

AIRpipe	Flange Size (in)	Female NPT	Bolt Size	D1	D2	D3	H
2270	1"	1"	M14	0.63"	3.13"	4.33"	0.67"
4470	1 ½"	1 ½"	M14	0.63"	3.88"	4.92"	0.87"
5570	2"	2"	M16	0.75"	4.75"	5.91"	0.94"
6270	2 ½"	1"	M16	0.75"	5.5"	7.09"	1.06"
6470	2 ½"	1 ½"	M16	0.75"	5.5"	7.09"	1.06"
6570	2 ½"	2"	M16	0.75"	5.5"	7.09"	1.06"
7270	3"	1"	M16	0.75"	6"	7.50"	1.14"
7470	3"	1 ½"	M16	0.75"	6"	7.50"	1.14"
7570	3"	2"	M16	0.75"	6"	7.50"	1.14"
7670	3"	2 ½"	M16	0.75"	6"	7.50"	1.14"
8470	4"	1 ½"	M16	0.75"	7.5"	9.06"	1.26"
8570	4"	2"	M16	0.75"	7.5"	9.06"	1.26"
8670	4"	2 ½"	M20	0.88"	9.5"	11.02"	1.50"
9470	6"	1 ½"	M20	0.88"	9.5"	11.02"	1.50"
9570	6"	2"	M20	0.88"	9.5"	11.02"	1.50"
9670	6"	2 ½"	M20	0.88"	9.5"	11.02"	1.50"
9770	6"	3"	M20	0.88"	9.5"	11.02"	1.50"

* Above flange material: Stainless.

AIRpipe	Flange Size (in)	Female NPT	Bolt Size	D1	D2	D3	H
2279	1"	1"	M14	0.63"	3.13"	4.33"	0.67"
4479	1 ½"	1 ½"	M14	0.63"	3.88"	4.92"	0.87"
5579	2"	2"	M16	0.75"	4.75"	5.91"	0.94"
6279	2 ½"	1"	M16	0.75"	5.5"	7.09"	1.06"
6479	2 ½"	1 ½"	M16	0.75"	5.5"	7.09"	1.06"
6579	2 ½"	2"	M16	0.75"	5.5"	7.09"	1.06"
7279	3"	1"	M16	0.75"	6"	7.50"	1.14"
7479	3"	1 ½"	M16	0.75"	6"	7.50"	1.14"
7579	3"	2"	M16	0.75"	6"	7.50"	1.14"
7679	3"	2 ½"	M16	0.75"	6"	7.50"	1.14"
8479	4"	1 ½"	M16	0.75"	7.5"	9.06"	1.26"
8579	4"	2"	M16	0.75"	7.5"	9.06"	1.26"
9279	6"	1"	M20	0.88"	9.5"	11.02"	1.50"
9479	6"	1 ½"	M20	0.88"	9.5"	11.02"	1.50"
9579	6"	2"	M20	0.88"	9.5"	11.02"	1.50"
9679	6"	2 ½"	M20	0.88"	9.5"	11.02"	1.50"
9779	6"	3"	M20	0.88"	9.5"	11.02"	1.50"

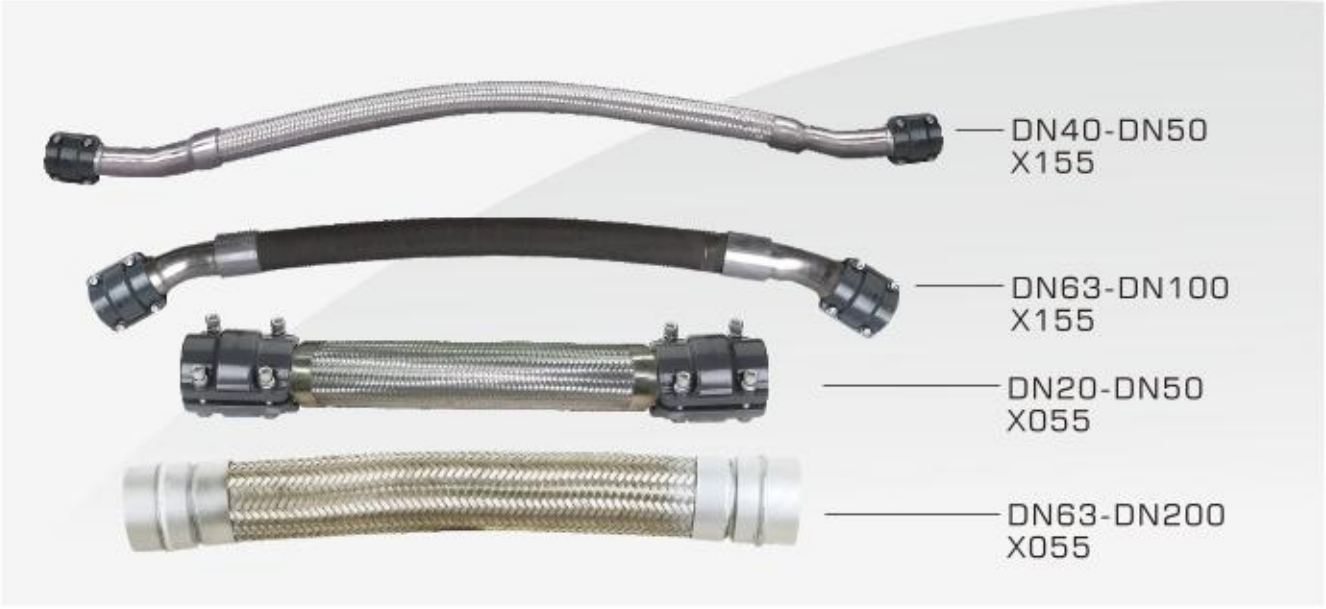
* Above flange material: Steel.

***Additional Bolt Kits and Gaskets Can Be Ordered.**
***Viton gaskets are available for high-temperature applications.**

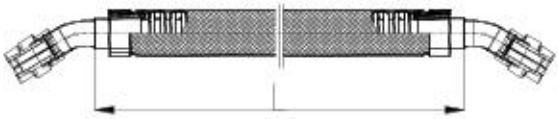
Flexible Hose

- Suitable for compressor & equipment outlets to absorb vibration
- Bypass obstacles
- Allows for expansion and contraction of loops
- Resistant to mineral and synthetic lubricated oils

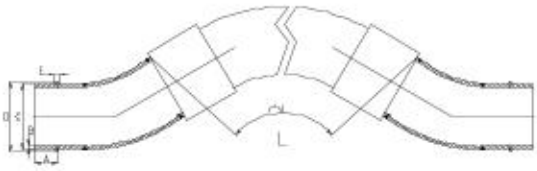
Flexible Hoses



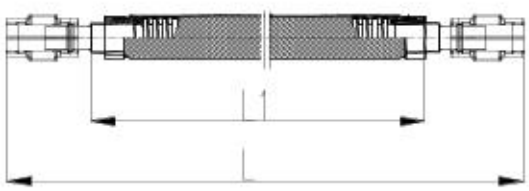
AIRpipe	OD(in)	L	Remark
4155	1 ½''	39.37"	SS304 material, 30°
5155	2"	43.31"	



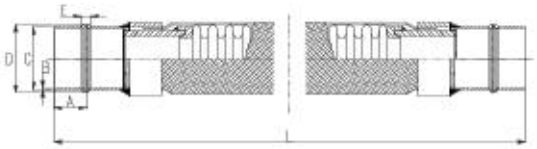
AIRpipe	OD(in)	L	A	C	D	Remark
6155	2 ½''	47.24"	1.38"	2.68"	2.95"	Rubber material, 30°
7155	3"	66.93"	1.38"	3.35"	3.62"	
8155	4"	66.93"	1.38"	4.02"	4.29"	



AIRpipe	OD(in)	L	L1	Remark
1055	¾''	19.69"	25.12"	SS304 material Straight connection
2055	1"	19.69"	25.12"	
4055	1 ½''	19.69"	27.01"	
5055	2"	19.69"	27.17"	



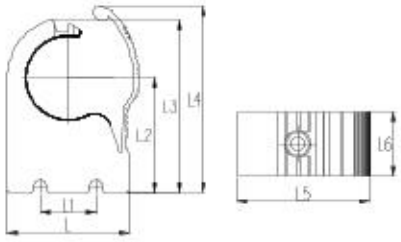
AIRpipe	OD(in)	L	A	C	Remark
6055	2 ½''	19.69"	1.38"	2.64"	SS304 material Straight connection
7055	3"	19.69"	1.38"	3.35"	
8055	4"	19.69"	1.38"	4.02"	
9055	6"	35.43"	1.38"	5.98"	
A055	8"	55.12"	1.38"	8.03"	
S1B055	10"	19.68"	1.38"	10.75"	



Fixtures & Accessories

- Suitable for various pipe systems
- Used for a variety of installation methods, eg: wall, beam, roof, channel, rod, cable, etc, vertically or horizontally
- Non-flammable
- Designed to work best with AIRpipe.

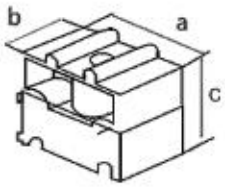
Fixture Clip



AIRpipe	OD(in)	L	L2	L4	L5	L6
1022	¾"	1.22"	1.38"	2.09"	1.38"	1.18"
2022	1"	1.50"	1.38"	2.28"	1.65"	1.18"
4022	1 ½"	2.32"	2.76"	4.13"	2.56"	1.54"
5022	2"	2.91"	2.76"	4.45"	3.19"	1.54"
6022	2 ½"	3.66"	2.76"	4.96"	4.02"	1.54"
7022	3"	4.65"	3.90"	6.65"	4.96"	1.93"
8022	4"	5.47"	3.90"	7.32"	5.78"	1.93"

* 3/8"-16 threaded rod port.

Clip Spacer



AIRpipe	Compatible sizes	a	b	c
0027	20~25	1.34"	1.93"	1.38"
0127	40~63	1.34"	3.7"	1.18"

* Spacer clip 0027 is used to create a level plane for ¾" or 1" diameters transitioning to 1 ½", 2", or 2 ½".
* Spacer clip 0127 is used to create a level plane for 1 ½", 2", or 2 ½" diameters transitioning to 3" or 4".

Unistrut Nut / Drill Jig

AIRpipe	Applicable Diameter
0227	⅜" - 16 threaded Rod Port

AIRpipe	Description
JIG KIT	Quick Drop Drilling Jig Kit
JIG25	1" OD Pipe Drilling Jig
JIG40	1 ½" OD Pipe Drilling Jig
JIG50	2" OD Pipe Drilling Jig

Fixture Clip [Steel]

AIRpipe	Diameter
4122	1 ½"
5122	2"
6122	2 ½"
7122	3"
8122	4"
9122	6"
A122	8"

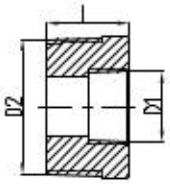
* 3/8"-16 threaded rod port.

Union Seal(FKM/VITON)

AIRpipe	Diameter
1002V	¾"
2002V	1"
4002V	1 ½"
5002V	2"
6002V	2 ½"
7002V	3"
8002V	4"
9002V	6"
A002V	8"
S3B00S	10"

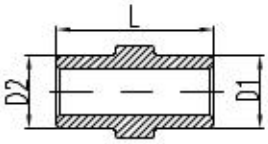
* Temperature range: -4°F to 392°F

Male x Female NPT Adapters



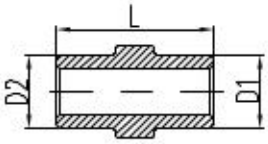
AIRpipe(NPT)	D1	D2	L	Material
4950	1"	1 ½''	1.24"	Aluminum
5050	1"	2"	1.42"	Aluminum
5450	1 ½''	2"	1.42"	Aluminum
6250	1"	2 ½''	1.54"	Aluminum
6550	2"	2 ½''	1.54"	Aluminum
7250	1"	3"	1.73"	Aluminum
7450	1 ½''	3"	1.73"	Aluminum
7550	2"	3"	1.73"	Aluminum
7650	2 ½''	3"	1.73"	Aluminum
8250	½''	¾''	1.10"	Aluminum
8350	½''	¼"	1.48"	Aluminum
8550	½''	1"	1.24"	Aluminum
8750	⅜"	½''	1.38"	Aluminum

Male x Male NPT Adapters



AIRpipe(NPT)	D1	D2	L	Material
8150	1"	¾''	1.91"	Aluminum
8450	½''	¼"	1.67"	Aluminum
8650	¾''	½''	1.81"	Aluminum

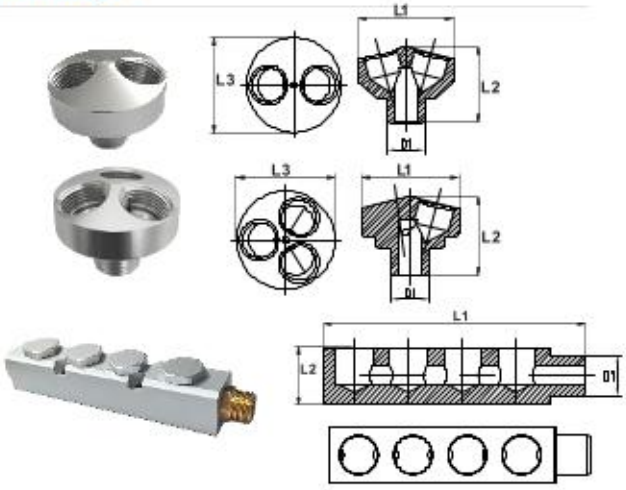
Pipe Nipples



AIRpipe(NPT)	D1	D2	L	Material
0031	½''	½''	1.77"	Aluminum
1131	¾''	¾''	1.85"	Aluminum
2231	1"	1"	2.13"	Aluminum
4431	1 ½''	1 ½''	2.24"	Aluminum
5531	2"	2"	2.52"	Aluminum

* Note: Used for the connection between two filters.

Manifolds



AIRpipe (NPT)	Inlet D1	Outlet	Connection Port
0283	Male ½''	Female ½''	Two-port manifold
0383	Male ½''	Female ½''	Three-port manifold
0783	Male ½''	Female ½''	Four-port manifold

* Couplers are available through AIRpipe.

AIRpipe(NPT)	L1	L2	L3
0283	2.05"	1.67"	2.05"
0383	2.05"	1.67"	2.05"
0783	5.12"	1.10"	/

Universal Quick Couplers

* Automotive Nipple. * Industial Nipple.

AIRpipe	Applicable Diameter
1484	¼" Universal Quick Coupler (ISO 6150B: Automotive), ½" Male NPT
3884	⅜" Universal Quick Coupler (ISO 6150B: Automotive), ½" Male NPT
4284	¼" Male NPT Automotive Nipple
8284	⅜" Male NPT Automotive Nipple
4184	¼" Male NPT Industrial (ISO B) Nipple
8184	⅜" Male NPT Industrial (ISO B) Nipple

Demo Case

AIRpipe	H	L	I
0146	7.87"	10.63"	7.48"

AIRpipe Hanging Accessories

Threaded Rod

AIRpipe	Part Description	Material
APH007	(3/8-16) length 12Ft.	Electro-Galvanized Steel

Unistrut Channel Nut

AIRpipe	Part Description	Material
APH006	Unistrut Channel Nut With Spring.1-5/8" x 3/8-16 Thread	Electro-Galvanized Steel

Square Channel Washer

AIRpipe	Part Description	Material
APH004	3/8" Square Channel Washer For 1-5/8" Strut	Electro-Galvanized Steel

Jam Nut

AIRpipe	Part Description	Material
APH005	Jam Nut. 3/8-16	Grade 5 Steel Zinc Finish

Threaded Rod Beam Clamp

AIRpipe	Part Description	Material
APH003	3/8-16 Threaded Rod Beam Clamp.	Electro-Galvanized Steel

Channel Strut

AIRpipe	Part Description	Material
APH001	1-5/8" Half Strut Unistrut Channel.20' long (12 Gauge)	Grade 5 Steel Zinc Finish

U-Bolt Beam Clamp

AIRpipe	Part Description	Material
APH002	U-Bolt Beam Clamp. 1-5/8" Unistrut	Grade 5 Steel Zinc Finish

Tools

Tool Bag (PN 0045)

* Contains all tooling for¾'' to 2'', along with hex and hole saw bits for all diameters and quick drop fittings.
* For 2 1/2" to 4" installations you will need part numbers 0140 and 0844. These are not included in this kit.
* For 6" to 8" installations you will need part numbers 0344 and 0844. These are not included in this kit.
* For 10" installations you will need part number S10544. This grooving tool is not included in this kit.

AIRpipe	Component Description
0141	0.79''to 1.97''Pipe Deburrer
0042	0.79''to 7.87''Hole Deburrer
0643	Drill Arbor & Pilot Bits for 1.5''and 51mm Hole Saw Bits
0543	51mm Hole Saw Bit
0443	38mm Hole Saw Bit
0343	25mm Hole Saw Bit
0243	Drill Arbor & Pilot Bits for 0.55",19mm and 25mm Hole Saw Bits
0743	16mm Hole Saw Bit
0843	22mm Hole Saw Bit
0040	0.79''to 2.48''Pipe Cutter
PM	Permanent Marker
0044	Pipe Insertion Depth Gauge
5mm	5mm Allen Bit (2" in length) for Drill
6mm	6mm Allen Bit (2" in length) for Drill
8mm	8mm Allen Bit (2" in length) for Drill
0046	Logoed Canvas Bag

* Items are available for individual purchase.

① Electric Pipe Cutter

② Saw Blades

AIRpipe	Applicable Diameter
0344	2 ½''to 8''
0345	10''

AIRpipe	Applicable Diameter
1344	Exact (ALU 140) Aluminum Blade for PN 0344
S10141	Exact (CERMET 140) SS blade for PN 0344
S10341	Exact (INOX THIN)10" (SCH 10) SS blade for PN 0345

③ Aluminum Pipe Cutter

④ Aluminum Pipe Deburrer

AIRpipe	L	H	Applicable Diameter
0040	8.66''	1.57''	¾'' to2 ½''
0140	9.45''	1.57''	1 ½''to 4''

AIRpipe	L	H	Applicable Diameter
0141	3.54''	2.76''	¾'' to2''

Hole Deburrer

AIRpipe	L	Applicable Diameter
0042	6.3''	¾'' to10''

Drill Arbor & Pilot Bit

AIRpipe	L	Applicable Drill	Applicable Diameter
0243	4.33''	0.55''-1.18''	1''to 4''
0643	4.33''	1.18''-5.9''	6''to 8''

Hole Saw Bit

AIRpipe	L	Hole Saw Bit Size	Applicable Diameter
0743	1.97''	16mm	1''
0843	1.97''	22mm	1 ½''
0343	1.97''	25mm	2''to 8''
0443	1.97''	38mm	4''
0543	1.97''	51mm	6''to 8''

Lugging Machine

AIRpipe	Pipe OD	Remark
0844	2 ½''to 8''	Contains every jaw set
S10544	2 ½''to10''	Stainless steel

Lugging Jaw Kit

AIRpipe	Remark
1844	AIRpipe lug jaws kit 2 ½''to 8''

* Jaws can be ordered separately.

Pipe Insertion Depth Gauge

AIRpipe	DN	Insertion depth S (IN)
0044	¾''	1.14''
	1''	1.14''
	1 ½''	1.54''
	2''	1.54''

Installing AIRpipe

General

General

- Prior to the installation of a AIRpipe compressed air distribution system, the installer should ensure that the installation area complies with any regulations applicable to areas exposeed to explosive hazards (in particular the effect of static electricity) in a silo area). AIRpipe should be installed downstream of the compressed air receiver, or after the dryer. Flexible AIRpipe hose can be installed at the start of the system in order to eliminate any sources of vibration and to facilitate maintenance operations. When maintaining or modifying an AIRpipe system, the relevant section should be vented prior to the commencement of any work. Installers should use only AIRpipe components and accessories, in particular AIRpipe pipe clips and fixture clamps. The technical properties of the AIRpipe components, as described in the AIRpipe catalog, must be respected.
- AIRpipe aluminum pipe is supplied ready for use. No particular preparation (cutting, deburring, chamfering, etc.) is required.
- Thanks to the rigidity of AIRpipe aluminum pipe, temperature-related expansion ; contraction is reduced to a minimum. The AIRpipe system retains its straightness, and hence its performance, over time (reduction of pressure drop caused by surface friction).
- AIRpipe aluminum pipe is calibrated and fits perfectly with all AIRpipe components.

Component assembly

- AIRpipe components are provided with assembly instructions for their correct use - simply follow the methods and recommendations stated in this document.

Expansion / contraction

- Expansion and contraction of the system should be calculated prior to installation. The system designer and installer should calculate the elongation or retraction of each AIRpipe line according to the recommendations in this installation guide .

Situations to avoid

- AIRpipe pipe should be protected from mechanical impact, particularly if exposed to collision with fork-lift trucks or when sited in an environment with moving overhead loads. Similarly, rotation of the pipe and pipe supports should be avoided. AIRpipe pipe must not be welded. Flexible AIRpipe hoses should be used in accordance with the recommendations of the installation guidelines.
  - ☐ installation within a solid mass (concrete, foam, etc).
  - ☐ the hanging of any external equipment to AIRpipe pipe.
  - ☐ the use of AIRpipe for grounding, or as a support for electrical equipment.
  - ☐ exposure to chemicals that are incompatible with AIRpipe components (please contact us for further details)..

Best practices to maintain an optimized AIRpipe System

- Design, installation, and maintenance should be performed in accordance with reasonable engineering knowledge and practice with involving piping systems.
- Maintain high-quality air levels within your system.
- To avoid pressure drops within your system, minimize pipe diameter reductions.
- Properly size your system to allow for optimal flow and efficiency.

Measuring Pipe Insertion Depth

- When installing pipe diameters ¾'' to 2", use the insertion depth gauge (part number 0044) to place an insertion depth mark on the pipe.

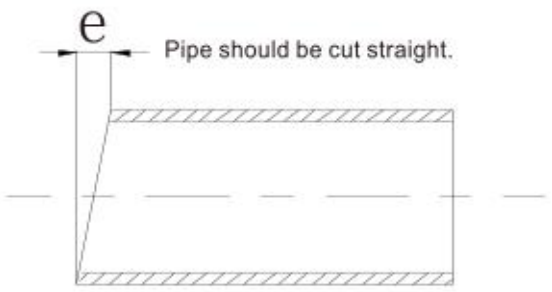
Drilling indicator

- An identifying layline is imprinted on each length of pipe that may be used as an alignment guide when installing quick drop connectors.

Cutting the pipe

- Rotate the corresponding pipe cutter around the pipe while gently tightening the wheel.

Use part number 0040 for pipe diameters ¾'' to 2 ½''.
Use part number 0140 for pipe diameters 1 ½'' to 4".



Nominal Diameter	Cutting slope of pipe and allowable deviation (e)
¾'' to 3''	1.0
4'' to 6''	1.4
8'' to 10''	2.0

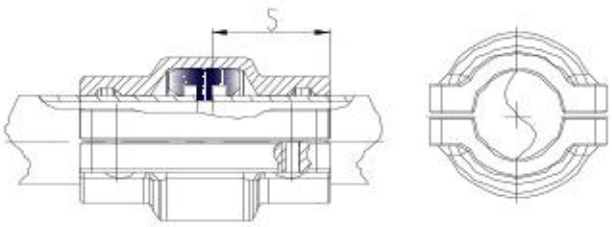
Superior Reliability!

Quick and Easy Installation

Sizing Chart for Quick Drops

Pilot Bit	Hole Saw	DN (mm)	Quick Drops (PN)					
0243	0743	ϕ16	2110	2210	2011			
0243	0843	ϕ22	4110	4210	4011	4111		
0243	0343	ϕ25	5110	5210	6110	6210	7110	7210
			8110	8210	9110	9210	A210	
			5011	5111	6011	6111	7011	7111
			8011	9011				
			5099	6099	7099	8099	9099	A099
			5199	6199	7199	8199	9199	A199
0643	0443	ϕ38	8410					
0643	0543	ϕ51	9410	9510	A410	A510		

Insertion Depth S For ¾'' to 2'' Connector

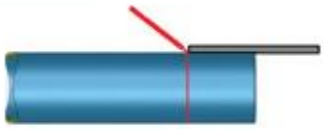


DN	Insertion depth S (IN)
¾''	1.14''
1''	1.14''
1 ½''	1.53''
2''	1.53''
2 ½''	2.125''
3''	2.125''
4''	2.44''
6''	2.665''
8''	2.54''
10''	2.13''

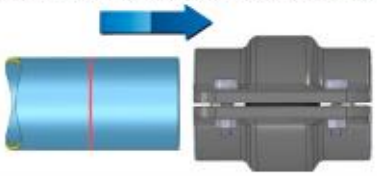
- "S" denotes the insertion depth of the pipe into the connector.

Installation Guide for ¾'' to2''

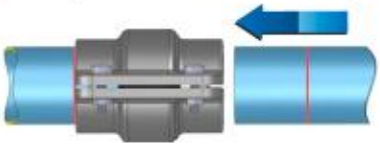
01 Mark the pipe with a marker pen as shown below.



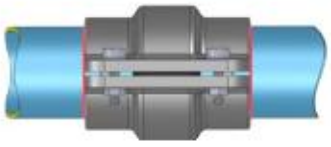
02 Insert the marked pipe into the connector.



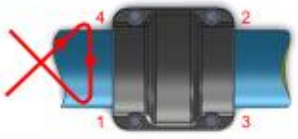
03 Bring the second pipe to the connector and slide up to the marked insertion depth.



04 A portion of the marked lines should remain visible after the pipe is inserted into the connector.



05 Tighten the screws in an "X" pattern. To disassemble, perform the same operation in reverse order.



06 Tighten the pre-fitted screws. Flush the clamshell halves together to complete assembly.

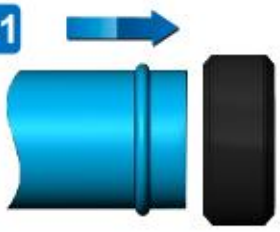
Deburr The Outer and Inner Edges Before Installation

- Use 0141 for ¾'' to 2'' to deburr the outer edges and also deburr the inner end.

- Use a file for 2 ½''-8'' to chamfer the outer edges; Make sure of a deburring tool to deburr the inside of the pipe end.

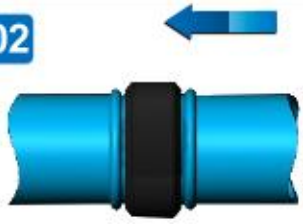
Installation Guide for 2 ½" to 10"

01



Slide the seal over the edge of the pipe so that it sits flush with the lugged edge.

02



Insert the second pipe into the seal until the seal and the lugged edge are flush.

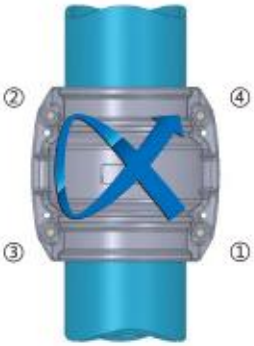
03

Position the clamshell over the seal.

04

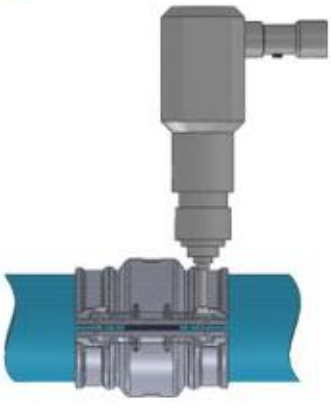
Confirm the pipe groove/lugs are aligned in the fitting channels.

05



For effective assembly, tighten the screws in an "X" pattern. To disassemble, perform the same operation in reverse order.

06



Tighten the pre-fitted screws. Flush the clamshell halves together to complete assembly.

***The clamshell halves must be flushed completely together.**

Hand-held hydraulic lugging machine operation requirements

01

- Open the jaw and insert the pipe completely. *Confirm you are using the correct jaw dies.

02

- Press the trigger on the lugging tool to run the lugging cycle. A "snap" sound is made when the applied lug is completed.crimp the pipe until a "snap" sound is heard.

03

- Rotate the jaw to apply the next lug. The circle showsthe alignment mark made by the jaw from the previous operation. Align the edge of the jaw to this mark to ensure alllugs are evenly spaced around the pipe. Don't overlap lugs.

04

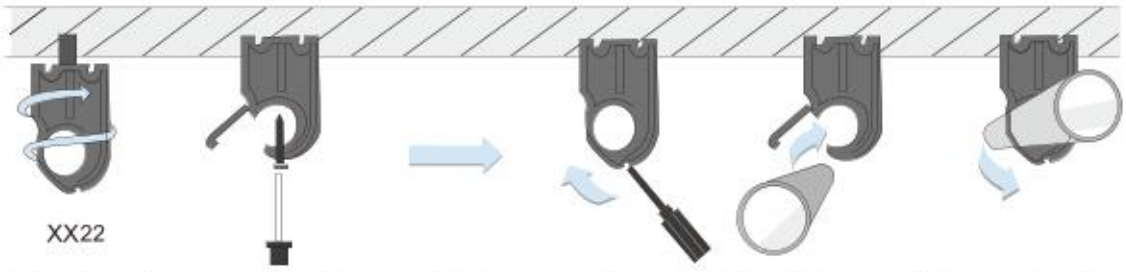
- Continue this process until the correct number of lugs are evenly applied to the pipe.

Hand-held hydraulic lugging machine operation requirements

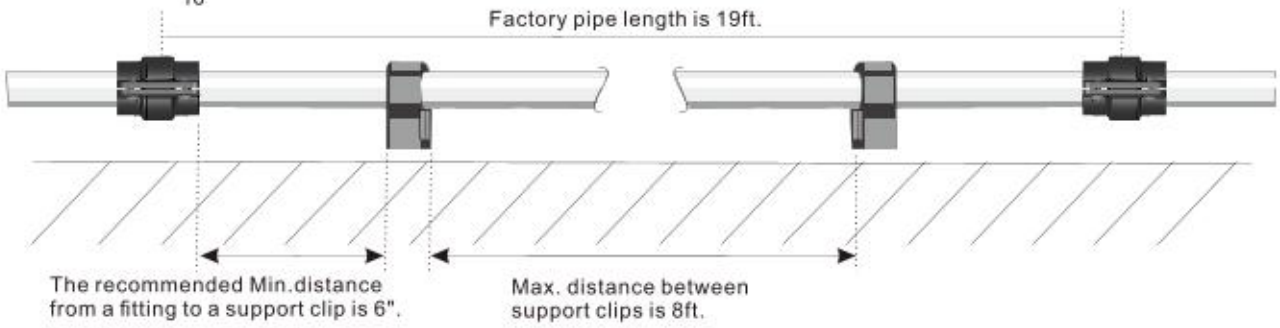
AIRPIPE Number Of Lugs	2 ½"	3"	4"	6"	8"	10"
	5	6	6	9	12	N/A

* Note: Do not overlap the lugs!
* Note:10" installations require the use of the S10544 grooving tool. There are no lugging jaws available for 10".

Pipe Clip



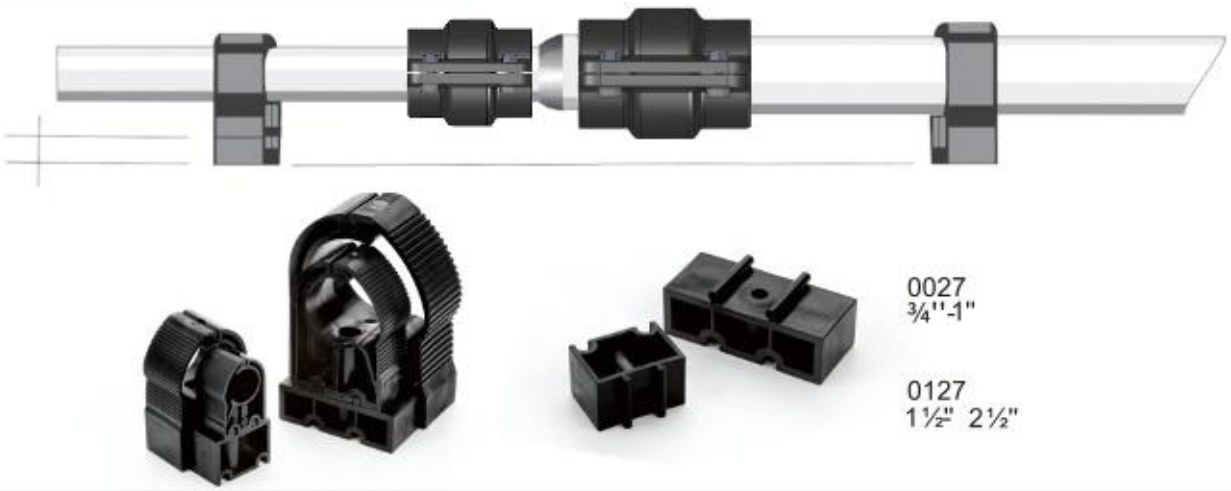
AIRpipe's pipe clips are designed for versatility. They can be secured via all-thread rod through the clips internal ⅜"-16 nut, or mounted directly with wall anchors.



Pipe Support Guidelines:

- Support hangers should be no closer than 6 inches from the end of a fitting.
- The maximum spacing between support hangers along straight pipe runs should not exceed 8 feet.
- For each uncut 19-foot stick of pipe, a minimum of 2 support hangers is recommended to ensure properstability and alignment. A minimum of 1 support hanger is recommended for each cut length of pipe.
- When supporting fittings weighing more than 35 lbs., it is recommended to have a support hanger neareach side of the fitting, on the main run.
- AIRpipe support clips/hangers are preferred for optimal compatibility and performance. Alternative hangers may be used, provided they adhere to the spacing and placement guidelines outlined above

Spacers for pipe clips



Spacer clip 0027 is used to create a level plane for ¾'' or 1" diameters transitioning to 1½", 2" or 2½".

Spacer clip 0127 is used to create a level plane for 1½", 2", or 2½" diameters transitioning to 3" or 4".

Installing Quick Drop Connectors

01

- Mark the pipe where the hole for the quick drop connector will be installed.

02

- Identify the pilot bit and hole saw bit required by referencing the chart on page 27.

03

- With the proper pilot bit and hole saw bit assembled you are ready to drill into the pipe.

04

- Hold the drill perpendicular to the pipe with the drill bit in the center of the mark placed on the pipe.

***Never perform work on a pressurized system.**

05

- Apply steady pressure until the hole saw bit has completely entered the pipe.

06

- Remove debris and deburr cut edges.

07

- The quick drop connector easily aligns into the drilled hole.

08

- Tighten the saddle to complete the assembly.

Compensating for the effect of expansion and contraction due to temperature variations

Consequences of not properly accounting for thermal variations:

- Leakage and system deformation, that in extreme situations, could result in a connection separation.
- Pipe system movement could create an obstruction.
- Quick drop connections could become compromised.

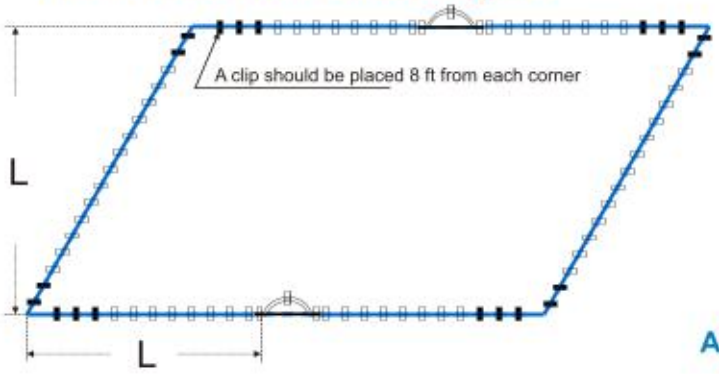
1. In order to compensate for the effects of expansion and contraction due to temperature variations, system lengths should be appropriately evalulated and expansion joints installed where needed.
   a. Anytime there is a change in temperature between areas.
   b. For significant lengths of piping.
2. Recommended locations of flexible hoses or expansion loops include but are not limited to.
   a. The discharge of the compressor.
   b. The middle of a long run of pipe.
   c. Corners of a piping network.
   d. In a multiple loop at the beginning of a parallel line internal to the pipeline loop.
3. Best practices include but are not limited to:
   a. All aluminum piping to be installed in strict accordance with AIRpipe installation instructions and specifications .
   b. Allowing the corners to expand and contract by placing pipe clips an appropriate distance from each corner. Avoid placing a pipe clip directly in the corner.
   c. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls.
   d. Install piping adjacent to equipment and machines to allow service and maintenance.
   e. Install air and drain piping with 1 percent slope downwoad in direction of flow.
   f. Install nipples, flanges, unions, transition, and special fittings, and valves with pressure ratings same as or higher than system pressure rating, unless otherwise indicated.
   g. Install branch connections to compressed-air mains from top of main. Provide drain leg and drain trap at end of each main and branch and at low points.
   h. Install piping to permit valve servicing.
   I. Install piping free of sags and bends.
   j. Install sleeves and escutcheons for piping penetrations of walls, ceilings, and floors as necessary.
   k. The fixing clips shall allow axial movement of the pipe to compensate for system expansion and contraction.
   l. Horizontal and vertical AIRpipe piping shall be supported by AIRpipe pipe clips. Hangers to be spaced at intervals as described herein, as required to avoid sag, prevent vibration, and allow accurate leveling or grading.

Number	ΔT (°C)	Reference table: Allowable max. installation distance L (ft)								
		¾''	1"	1 ½''	2"	2 ½''	3"	4"	6"	8"	10"
1	20°C	Expansion-Contraction assembly not needed in this diameter		394	394	361	344	312	262	246	148
2	25°C			377	377	344	328	295	246	230	131
3	30°C			361	361	328	312	279	230	213	115
4	35°C			328	328	295	295	262	213	197	98
5	40°C			295	295	279	246	230	197	180	115

- ΔT = System Temperature - Room Temperature

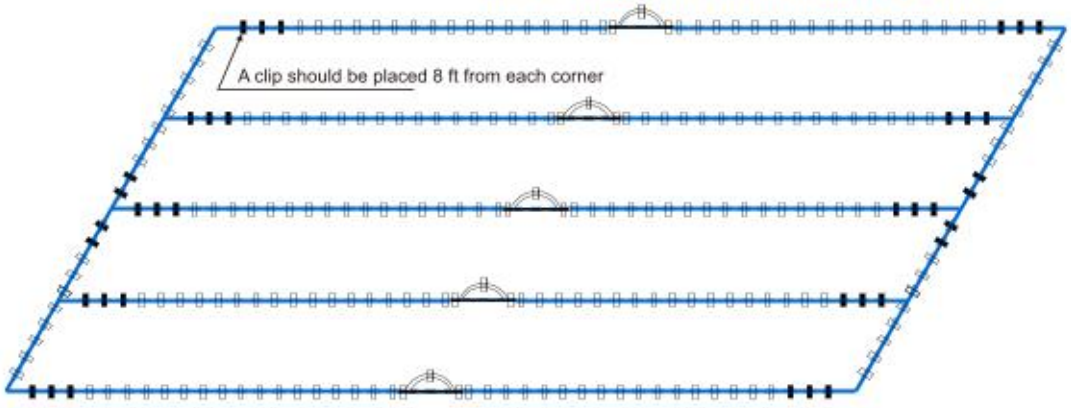
A1) Single loop pipeline for 1½" - 4"

*** Use 30° flexible hose in the middle of pipeline**



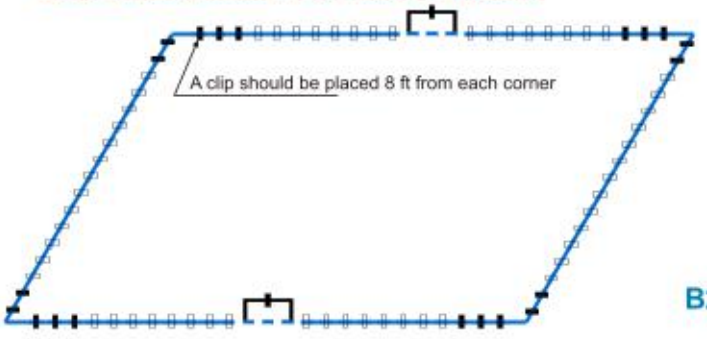
A2) Multiloop pipeline for 1½" - 4"

*** Use 30° flexible hose in the middle of pipeline**



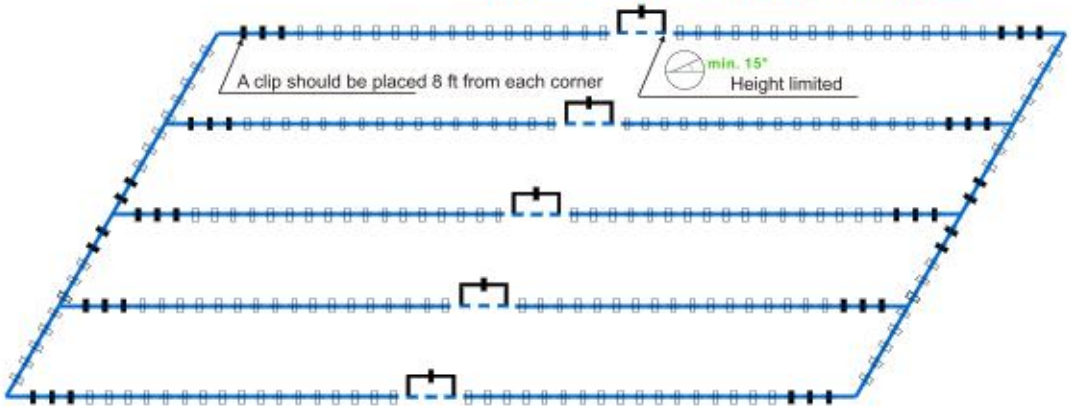
B1) Single loop pipeline for 6" - 10"

*** Use two metal hoses in the middle of pipeline**



B2) Multiloop pipeline for 6" - 10"

*** Use two metal hoses in the middle of pipeline**



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