

ENGINEERED FOR SUPERIOR PERFORMANCE

Compressed Air & Gas Systems

Catalogue





AlRpipe 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

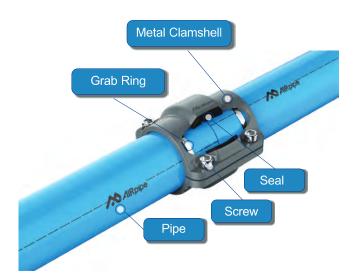
- The smooth interior design and highflow connectors ensures a constant supply of clean air at a reduced pressure drop, resulting in significant energy savings.
- Guaranteed leak-free performance and superior longevity versus traditional pipe systems.

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.

Connection Technology

AlRpipe 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

DN20 - DN50mm

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



Lugged Ring Clamping Style Connection

DN63 - DN200mm

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

Technical Specifications

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: 232 psi. (Max. working pressure for DN200 is 188 psi.)
- -4°F to +176°F
- * Higher temperature seal options are available.

Vacuum

 Vacuum: .3 inches of mercury (absolute 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 | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 1" | 1" | 1" |
| 25 | 3/4" | 3/4" | 3/4" | 3/4" | 1" | 1" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" |
| 50 | 1" | 1" | 1" | 1" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2" |
| 75 | 1" | 1" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2'' | 2" | 2" |
| 100 | 1-1/2'' | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2" | 2'' | 2-1/2" | 2-1/2" |
| 150 | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" |
| 250 | 2" | 2" | 2" | 2" | 2" | 2-1/2'' | 2-1/2" | 2-1/2" | 3" | 3'' |
| 500 | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 3" | 3'' | 4'' | 4'' |
| 750 | 2-1/2" | 2-1/2" | 3" | 3" | 3" | 3" | 4'' | 4" | 4'' | 6'' |
| 900 | 3" | 3" | 3" | 3" | 3" | 3" | 4" | 4'' | 6'' | 6'' |
| 1000 | 3" | 3" | 3" | 3" | 3'' | 4'' | 4'' | 6'' | 6" | 6'' |

| | Looped Installation - System Sizing Chart | | | | | | | | | |
|------------------|---|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| Flow Rate (SCFM) | (SCFM) Equivalent Length (feet) | | | | | | | | | |
| | 50' | 150' | 300' | 400' | 500' | 1000' | 2000' | 3000' | 4000' | 5000' |
| 10 | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4'' | 3/4'' |
| 25 | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 1" | 1" | 1" | 1" |
| 50 | 3/4" | 3/4" | 3/4" | 3/4" | 1" | 1" | 1" | 1-1/2'' | 1-1/2" | 1-1/2" |
| 75 | 3/4" | 3/4" | 1" | 1" | 1" | 1" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" |
| 100 | 1" | 1" | 1" | 1" | 1" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2'' | 2'' |
| 150 | 1" | 1" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2" | 2" | 2'' |
| 250 | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2" | 2" | 2" | 2-1/2" | 2-1/2" |
| 500 | 2" | 2" | 2" | 2'' | 2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 3'' |
| 750 | 2'' | 2'' | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 3" | 3" | 3'' |
| 900 | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 3" | 3" | 3" | 4'' |
| 1000 | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 3'' | 3" | 3'' | 4'' | 4'' |

- 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)
- 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: 232 psi
 Max. working pressure for DN200 is 188 psi
- Vacuum: .3 inches of mercury (absolute pressure)
- Working temperature: -4 up to +176

Blue / Grey / Green



| *Other colors, please consult us | JS. |
|----------------------------------|-----|
|----------------------------------|-----|

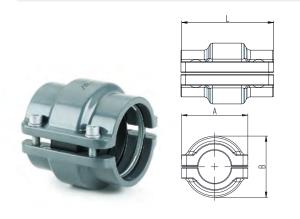
| AIRpipe | Nominal Diameter (in) | OD(mm) | ID(mm) | L(ft) |
|---------|--------------------------|--------|--------|-------|
| 1000 | 3/4" | 20.1 | 17.5 | 19 |
| 2000 | 1" | 25.1 | 22.5 | 19 |
| 4000 | 1-1/2" | 40.1 | 36.5 | 19 |
| 5000 | 2" | 50.1 | 45.7 | 19 |
| 6000 | 2-1/2" | 67.6 | 63 | 19 |
| 7000 | 3" | 84.8 | 80.0 | 19 |
| 8000 | 4" | 101.8 | 96.8 | 19 |
| 9000 | 6" | 153 | 147.5 | 19 |
| A000 | 8" | 205 | 197.8 | 19 |
| 1062 | 3/4" | 20.1 | 17.5 | 19 |
| 2062 | 1" | 25.1 | 22.5 | 19 |
| 4062 | 1-1/2" | 40.1 | 36.5 | 19 |
| 5062 | 2" | 50.1 | 45.7 | 19 |
| 6062 | 2-1/2" | 67.6 | 63 | 19 |
| 7062 | 3" | 84.8 | 80.0 | 19 |
| 8062 | 4" | 101.8 | 96.8 | 19 |
| 9062 | 6" | 153 | 147.5 | 19 |
| A062 | 8" | 205 | 197.8 | 19 |
| 1061 | 3/4" | 20.1 | 17.5 | 19 |
| 2061 | 1" | 25.1 | 22.5 | 19 |
| 4061 | 1-1/2" | 40.1 | 36.5 | 19 |
| 5061 | 2" | 50.1 | 45.7 | 19 |
| 6061 | 2-1/2" | 67.6 | 63 | 19 |
| 7061 | 3" | 84.8 | 80.0 | 19 |
| 8061 | 4" | 101.8 | 96.8 | 19 |
| 9061 | 6" | 153 | 147.5 | 19 |
| A061 | 8" | 205 | 197.8 | 19 |

Connectors

- Quick connection
- Superior reliability & longevity
- Designed for extreme environments

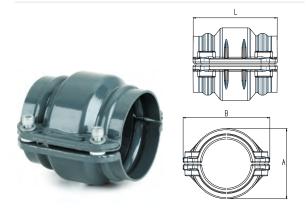
- Modular and reusable
- 100% recyclable and non-flammable materials (UL94-HB Standard)
- Viton seals for high temperature applications are available

Pipe to Pipe Connector



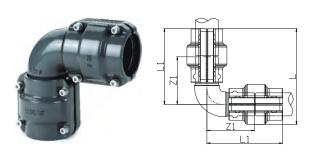
| AIRpipe | Nominal Diameter | L | А | В |
|---------|---------------------|----|----|----|
| 1002 | 20 | 59 | 36 | 41 |
| 2002 | 25 | 59 | 42 | 44 |
| 4002 | 40 | 78 | 69 | 60 |
| 5002 | 50 | 79 | 80 | 74 |

Pipe to Pipe Connector



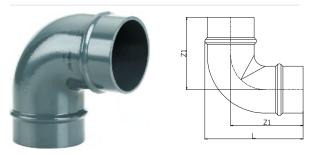
| AIRpipe | Nominal Diameter | L | А | В |
|---------|---------------------|-----|-----|-----|
| 6002 | 63 | 114 | 98 | 121 |
| 7002 | 80 | 114 | 115 | 137 |
| 8002 | 100 | 146 | 128 | 157 |
| 9002 | 150 | 146 | 188 | 224 |
| A002 | 200 | 135 | 240 | 265 |

Equal 90° Elbow

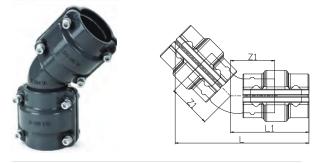


| AIRpipe | Nominal Diameter | L1 | L | Z 1 |
|---------|---------------------|-----|-----|------------|
| 1003 | 20 | 80 | 100 | 61 |
| 2003 | 25 | 83 | 105 | 67 |
| 4003 | 40 | 109 | 139 | 91 |
| 5003 | 50 | 115 | 152 | 101 |

Equal 90° Elbow

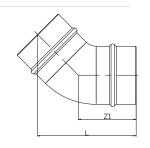


Equal 45° Elbow



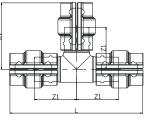
Equal 45° Elbow





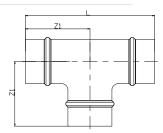
Equal Tee





Equal Tee





| AIRpipe | Nominal Diameter | L | Z 1 |
|---------|---------------------|-----|------------|
| 6003 | 63 | 143 | 105 |
| 7003 | 80 | 156 | 110 |
| 8003 | 100 | 194 | 140 |
| 9003 | 150 | 265 | 185 |
| A003 | 200 | 315 | 207.5 |

^{*} Supplied with (2) union connectors.

| AIRpipe | Nominal Diameter | L | L1 | Z 1 |
|---------|---------------------|-----|----|------------|
| 1004 | 20 | 118 | 70 | 39 |
| 2004 | 25 | 119 | 71 | 40 |
| 4004 | 40 | 159 | 92 | 52 |
| 5004 | 50 | 162 | 95 | 54 |

| AIRpipe | Nominal Diameter | L | Z 1 |
|---------|---------------------|-----|------------|
| 6004 | 63 | 144 | 84 |
| 7004 | 80 | 145 | 85 |
| 8004 | 100 | 179 | 105 |
| 9004 | 150 | 215 | 126 |
| A004 | 200 | 231 | 135 |

^{*} Supplied with (2) union connectors.

| AIRpipe | Nominal Diameter | L | L1 | Z 1 |
|---------|---------------------|-----|-----|------------|
| 1005 | 20 | 160 | 80 | 49 |
| 2005 | 25 | 166 | 83 | 52 |
| 4005 | 40 | 218 | 109 | 69 |
| 5005 | 50 | 230 | 115 | 74 |

| AIRpipe | Nominal Diameter | L | Z 1 |
|---------|---------------------|-----|------------|
| 6005 | 63 | 200 | 100 |
| 7005 | 80 | 220 | 110 |
| 8005 | 100 | 262 | 131 |
| 9005 | 150 | 332 | 170 |
| A005 | 200 | 375 | 187.5 |

^{*} Supplied with (3) union connectors.



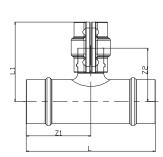
Reducing Tee



| AIRpipe | Nominal Diameter | L | Z1 | Z2 | L1 |
|---------|---------------------|-----|----|----|-----|
| 2107 | 25x20 | 160 | 50 | 51 | 80 |
| 4207 | 40x25 | 200 | 61 | 60 | 90 |
| 5207 | 50x25 | 220 | 70 | 71 | 101 |
| 5407 | 50x40 | 220 | 70 | 74 | 114 |

Reducing Tee



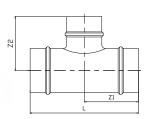


| AIRpipe | Nominal Diameter | L | Z1 | L1 | Z2 |
|---------|---------------------|-----|-----|-----|-----|
| 6407 | 63x40 | 200 | 100 | 122 | 83 |
| 6507 | 63x50 | 200 | 100 | 123 | 83 |
| 7407 | 80x40 | 190 | 100 | 132 | 92 |
| 7507 | 80x50 | 220 | 106 | 133 | 92 |
| 8507 | 100x50 | 226 | 118 | 141 | 100 |

^{*} Supplied with (2) union connectors.

Reducing Tee



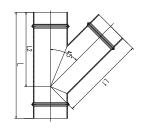


| AIRpipe | Nominal Diameter | L | Z 1 | Z2 |
|---------|---------------------|-----|------------|-----|
| 7507 | 80x63 | 210 | 105 | 105 |
| 8607 | 100x63 | 236 | 118 | 118 |
| 8707 | 100x80 | 246 | 123 | 121 |
| 9607 | 150x63 | 242 | 121 | 150 |
| 9707 | 150x80 | 226 | 131 | 147 |
| 9807 | 150x100 | 272 | 136 | 162 |
| A607 | 200x63 | 240 | 120 | 170 |
| A707 | 200x80 | 256 | 128 | 171 |
| A807 | 200x100 | 276 | 138 | 182 |
| A907 | 200x150 | 344 | 172 | 182 |

^{*} Supplied with (2) union connectors.

Equal Lateral Wye



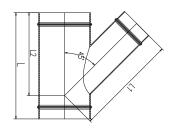


| AIRpipe | Nominal Diameter | L | L1 | L2 |
|---------|---------------------|-----|-----|-----|
| 6009 | 63 | 238 | 184 | 163 |
| 7009 | 80 | 262 | 211 | 184 |
| 8009 | 100 | 305 | 246 | 213 |
| 9009 | 150 | 385 | 340 | 280 |
| A009 | 200 | 459 | 400 | 347 |

^{*} Supplied with (3) union connectors.

Lateral Reducing Wye



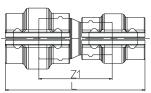


| AIRpipe | Nominal Diameter | L | L1 | L2 |
|---------|---------------------|-----|-----|-----|
| 8712 | 100x80 | 282 | 226 | 202 |
| 9712 | 150x80 | 292 | 276 | 235 |
| 9812 | 150x100 | 312 | 300 | 244 |
| A812 | 200x100 | 320 | 339 | 275 |
| A912 | 200x150 | 394 | 377 | 312 |

^{*} Supplied with (3) union connectors.

Reducing Pipe to Pipe Connector

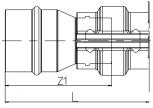




| AIRpipe | Nominal Diameter | L | Z 1 |
|---------|---------------------|-----|------------|
| 2121 | 25x20 | 130 | 67 |
| 4221 | 40x25 | 156 | 84 |
| 5221 | 50x25 | 160 | 86 |
| 5421 | 50x40 | 172 | 91 |

Reducing Pipe to Pipe Connector



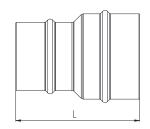


| AIRpipe | Nominal Diameter | L | Z 1 |
|---------|---------------------|-----|------------|
| 6421 | 63x40 | 156 | 116 |
| 6521 | 63x50 | 157 | 117 |
| 7521 | 80x50 | 158 | 117 |

^{*} Supplied with (1) union connector.

Reducing Pipe to Pipe Connector

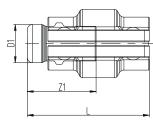




| AIRpipe | Nominal Diameter | L |
|---------|---------------------|-----|
| 7621 | 80x63 | 126 |
| 8621 | 100x63 | 152 |
| 8721 | 100x80 | 141 |
| 9721 | 150x80 | 155 |
| 9821 | 150x100 | 172 |
| A921 | 200x150 | 170 |

End Cap



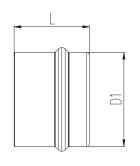


| AIRpipe | Nominal Diameter | L | D1 | Z1 |
|---------|---------------------|----|----|----|
| 1006 | 20 | 70 | 22 | 40 |
| 2006 | 25 | 70 | 27 | 40 |
| 4006 | 40 | 90 | 42 | 49 |
| 5006 | 50 | 91 | 52 | 50 |

⊘ AlRpipe **Engineered for Superior Performance**

End Cap



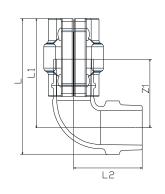


| AIRpipe | Nominal Diameter | L | D1 |
|---------|---------------------|----|-------|
| 6006 | 63 | 54 | 68 |
| 7006 | 80 | 55 | 85.4 |
| 8006 | 100 | 70 | 101.8 |
| 9006 | 150 | 70 | 153 |
| A006 | 200 | 70 | 205 |

^{*} Supplied with (1) union connector.

Male Threaded Elbow

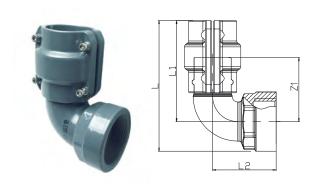




| AIRpipe | DN | L | L1 | L2 | NPT | Z 1 |
|---------|----|-----|-----|-----|--------|------------|
| 1015 | 20 | 95 | 79 | 49 | 1/2" | 49 |
| 1115 | 20 | 95 | 79 | 49 | 3/4" | 49 |
| 2015 | 25 | 102 | 82 | 52 | 1/2" | 52 |
| 2215 | 25 | 102 | 82 | 52 | 1" | 52 |
| 4415 | 40 | 141 | 109 | 109 | 1-1/2" | 69 |
| 5515 | 50 | 151 | 114 | 114 | 2" | 74 |

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

Female Threaded Elbow

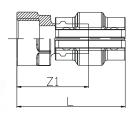


| AIRpipe | DN | | L1 | L2 | NPT | Z1 |
|---------|----|-----|-----|----|--------|----|
| 1013 | 20 | 95 | 79 | 49 | 1/2" | 49 |
| 1113 | 20 | 95 | 79 | 49 | 3/4" | 49 |
| 2013 | 25 | 102 | 82 | 52 | 1/2" | 52 |
| 2213 | 25 | 102 | 82 | 52 | 1" | 52 |
| 4413 | 40 | 141 | 109 | 69 | 1-1/2" | 69 |
| 5513 | 50 | 151 | 114 | 74 | 2" | 74 |

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

Female Threaded Adapter

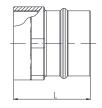




| AIRpipe | Nominal Diameter | L | NPT | Z1 |
|---------|---------------------|-----|--------|----|
| 1019 | 20 | 88 | 1/2" | 57 |
| 1119 | 20 | 88 | 3/4" | 58 |
| 2019 | 25 | 90 | 1/2" | 59 |
| 2219 | 25 | 90 | 1" | 60 |
| 4419 | 40 | 119 | 1-1/2" | 78 |
| 5519 | 50 | 120 | 2" | 79 |

Female Threaded Adapter



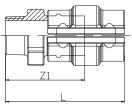


| AIRpipe | Nominal Diameter | L | NPT |
|---------|---------------------|-----|--------|
| 6619 | 63 | 93 | 2-1/2" |
| 7719 | 80 | 100 | 3" |

^{*} Supplied with (1) union connector.

Male Threaded Adapter

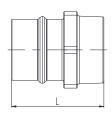




| AIRpipe | Nominal Diameter | L | Z1 | NPT |
|---------|---------------------|-----|----|--------|
| 1017 | 20 | 90 | 59 | 1/2" |
| 1117 | 20 | 91 | 60 | 3/4" |
| 2017 | 25 | 92 | 60 | 1/2" |
| 2117 | 25 | 93 | 60 | 3/4" |
| 2217 | 25 | 93 | 62 | 1" |
| 4217 | 40 | 119 | 78 | 1" |
| 4317 | 40 | 122 | 81 | 1-1/4" |
| 4417 | 40 | 122 | 81 | 1-1/2" |
| 4517 | 40 | 122 | 81 | 2" |
| 5417 | 50 | 122 | 81 | 1-1/2" |
| 5517 | 50 | 126 | 85 | 2" |

Male Threaded Adapter



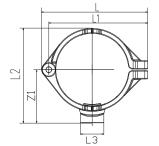


| AIRpipe | Nominal Diameter | L | NPT |
|---------|---------------------|-----|--------|
| 6517 | 63 | 98 | 2" |
| 6617 | 63 | 103 | 2-1/2" |
| 7617 | 80 | 107 | 2-1/2" |
| 7717 | 80 | 110 | 3" |

^{*} Supplied with (1) union connector.

Female Threaded Straight Quick Drop





| AIRpipe | Nominal Diameter | L | L1 | L2 | L3 | NPT | Z 1 | Hole Saw Bit Size |
|---------|------------------|-----|-----|-----|-----|------|------------|----------------------|
| 5099 | 50x½" | 84 | 76 | 76 | 33 | 1/2" | 46 | 25 |
| 5199 | 50x¾" | 84 | 76 | 76 | 33 | 3/4" | 46 | 25 |
| 6099 | 63x½" | 113 | 103 | 97 | 57 | 1/2" | 33 | 25 |
| 6199 | 63x¾" | 113 | 103 | 97 | 57 | 3/4" | 33 | 25 |
| 7099 | 80x½" | 131 | 121 | 112 | 64 | 1/2" | 33 | 25 |
| 7199 | 80x¾" | 131 | 121 | 112 | 64 | 3/4" | 33 | 25 |
| 8099 | 100x½" | 150 | 142 | 133 | 75 | 1/2" | 33 | 25 |
| 8199 | 100x¾" | 150 | 142 | 133 | 75 | 3/4" | 33 | 25 |
| 9099 | 150x½" | 202 | 192 | 183 | 99 | 1/2" | 33 | 25 |
| 9199 | 150x¾" | 202 | 192 | 183 | 99 | 3/4" | 33 | 25 |
| A099 | 200x½" | 256 | | 247 | 134 | 1/2" | 33 | 25 |
| A199 | 200x¾" | 256 | | 247 | 134 | 3/4" | 33 | 25 |

^{*} DN50-DN150 are manufactured with hinges.

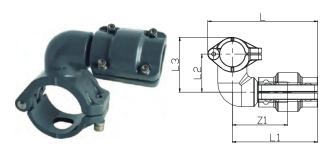
Quick Drop Connectors

- All-aluminum body
- Alignment stub design for quick installation

- Optimum flow
- Captivated seal

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

Quick Drop



| AIRpipe | Nominal Diameter | L | L1 | Z1 | L2 | L3 | Hole Saw Bit Size |
|---------|---------------------|-----|----|----|-----|-----|----------------------|
| 2110 | 25x20 | 110 | 85 | 55 | 38 | 55 | 16 |
| 2210 | 25x25 | 110 | 85 | 55 | 38 | 55 | 16 |
| 4110 | 40x20 | 125 | 91 | 61 | 45 | 70 | 22 |
| 4210 | 40x25 | 125 | 91 | 61 | 45 | 70 | 22 |
| 5110 | 50x20 | 129 | 89 | 59 | 54 | 84 | 25 |
| 5210 | 50x25 | 129 | 89 | 59 | 54 | 84 | 25 |
| 6110 | 63x20 | 152 | 89 | 59 | 71 | 112 | 25 |
| 6210 | 63x25 | 152 | 89 | 59 | 71 | 112 | 25 |
| 7110 | 80x20 | 158 | 89 | 59 | 77 | 127 | 25 |
| 7210 | 80x25 | 158 | 89 | 59 | 77 | 127 | 25 |
| 8110 | 100x20 | 154 | 83 | 53 | 97 | 154 | 25 |
| 8210 | 100x25 | 154 | 83 | 53 | 97 | 154 | 25 |
| 9110 | 150x20 | 202 | 82 | 52 | 123 | 204 | 25 |
| 9210 | 150x25 | 202 | 82 | 53 | 123 | 204 | 25 |
| A210 | 200x25 | 256 | 84 | 55 | 149 | 267 | 25 |

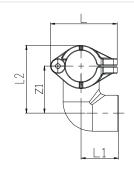
Female Threaded Quick Drop



| AIRpipe | DN x NPT | L | L1 | Z1 | L2 | Hole Saw Bit Size |
|---------|----------|----|----|----|----|----------------------|
| 2011 | 25x½" | 54 | 30 | 38 | 55 | 16 |
| 4011 | 40x½" | 72 | 42 | 45 | 70 | 22 |
| 4111 | 40x¾" | 72 | 42 | 45 | 70 | 22 |
| 5011 | 50x½" | 83 | 46 | 54 | 84 | 25 |
| 5111 | 50x¾" | 83 | 47 | 54 | 84 | 25 |

Female Threaded Quick Drop

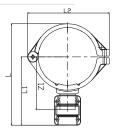




| AIRpipe | DN x NPT | L | L1 | Z1 | L2 | Hole Saw Bit Size |
|---------|----------|-----|----|-----|-----|----------------------|
| 6011 | 63x½" | 126 | 65 | 75 | 112 | 25 |
| 6111 | 63x¾" | 126 | 78 | 75 | 112 | 25 |
| 7011 | 80x½" | 138 | 65 | 80 | 127 | 25 |
| 7111 | 80x¾" | 138 | 78 | 80 | 127 | 25 |
| 8011 | 100x½" | 170 | 54 | 95 | 150 | 25 |
| 9011 | 150x½" | 219 | 55 | 120 | 201 | 25 |
| | | | | | | |

Straight Quick Drop



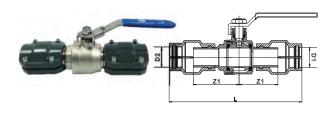


| AIRpipe | Nominal Diameter | L | L1 | L2 | Z1 | Hole Saw Bit Size |
|---------|---------------------|-----|-----|-----|-----|----------------------|
| 8410 | 100x40 | 204 | 134 | 162 | 104 | 38 |
| 9410 | 150x40 | 267 | 180 | 215 | 150 | 51 |
| 9510 | 150x50 | 255 | 181 | 215 | 151 | 51 |
| A410 | 200x40 | 329 | 206 | 269 | 176 | 51 |
| A510 | 200x50 | 330 | 207 | 269 | 177 | 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

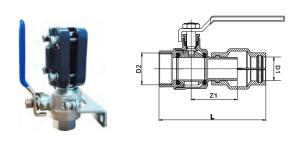
Quick Connect Valve



| AIRpipe(NPT) | D1 | D2 | L | Z1 |
|--------------|----|----|-----|----|
| 1052 | 20 | 20 | 165 | 52 |
| 2052 | 25 | 25 | 169 | 55 |
| 4052 | 40 | 40 | 232 | 76 |
| 5052 | 50 | 50 | 242 | 80 |
| 6052 | 63 | 63 | 206 | 96 |

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

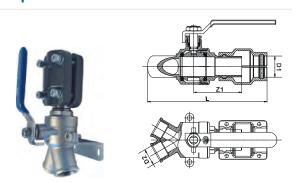
One-port Female Wall Bracket



| AIRpipe(NPT) | D1 | D2 | L | Z1 |
|--------------|----|--------|-----|----|
| 1252 | 20 | 1/2" | 118 | 52 |
| 2252 | 25 | 1" | 115 | 55 |
| 2452 | 25 | 1/2" | 215 | 76 |
| 4452 | 40 | 1-1/2" | 154 | 80 |
| 5552 | 50 | 2" | 165 | 76 |
| 6552 | 63 | 2-1/2" | 160 | 96 |

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

Two-port Female Wall Bracket

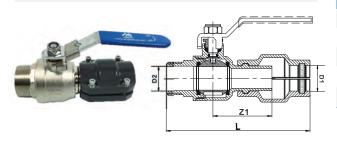


| AIRpipe(NPT) | D1 | D2 | L | Z1 |
|--------------|----|------|-----|----|
| 1152 | 20 | 1/2" | 133 | 52 |
| 2152 | 25 | 1/2" | 144 | 52 |

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

 * Locking Handle.

Male Threaded Quick Connect Valve



| AIRpipe(NPT) | D1 | D2 | L | Z1 |
|----------------|----|--------|-----|----|
| 1352 | 20 | 3/4" | 116 | 52 |
| 2352 | 25 | 1" | 122 | 55 |
| 4352 | 40 | 1-1/2" | 163 | 76 |
| 5352 | 50 | 2" | 177 | 80 |
| 6352 | 63 | 2-1/2" | 173 | 96 |

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



Angled Two-Port Female Wall Bracket



| AIRpipe(NPT) | D1 | Connector |
|--------------|----|------------------|
| 1552 | 20 | 75° Two ports,½" |
| 2552 | 25 | 75° Two ports,½" |

One & Two Port Angled Wall Brackets



| A/Rpipe(NPT) | D1 | Connector |
|--------------|----|--------------------|
| 1123 | 20 | 45° One port,1/2" |
| 2123 | 25 | 45° One port,1/2" |
| 1023 | 20 | 45° Two ports,1/2" |
| 2023 | 25 | 45° Two ports,1/2" |

Threaded Ball Valve



| AIRpipe (NPT) | D1 | D2 | L | Thread |
|---------------|--------|--------|-----|--------------|
| 0073 | 1/2" | 1/2" | 53 | Female |
| 0173 | 3/4" | 3/4" | 58 | Female |
| 1073 | 1/2" | 1/2" | 60 | Male |
| 1173 | 3/4" | 3/4" | 65 | Male |
| 0273 | 1/2" | 1/2" | 53 | Male* Female |
| 1273 | 3/4" | 3/4" | 59 | Male* Female |
| 2073 | 1" | 1" | 70 | Female |
| 4073 | 1-1/2" | 1-1/2" | 90 | Female |
| 5073 | 2" | 2" | 103 | Female |

^{*} Material of Valve Body: Brass. * Locking Handle.

| | L |
|--|---|

Butterfly Valve Pre-Assembled

| AIRpipe(NPT) | Nominal Diameter | L | Material of valve |
|--------------|------------------|-----|-------------------|
| 6051 | 63 | 188 | Cast Iron |
| 7051 | 80 | 210 | Cast Iron |
| 8051 | 100 | 236 | Cast Iron |
| 9051 | 150 | 256 | Cast Iron |
| A051 | 200 | 278 | Cast Iron |
| 6151 | 63 | 188 | Stainless Steel |
| 7151 | 80 | 210 | Stainless Steel |
| 8151 | 100 | 236 | Stainless Steel |
| 9151 | 150 | 256 | Stainless Steel |
| A151 | 200 | 278 | Stainless Steel |

^{*} Locking Handle.

^{*} Material of Valve Body: Brass.
* Includes Mounting Plate and Hardware.

^{*} Locking Handle.

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

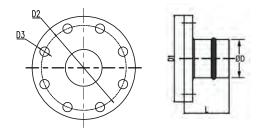
^{*} Lever Handle: 6051, 7051, 6151, 7151

^{*} Wheel Handle: 8051, 9051, A051, 8151, 9151, A151

Flange Connectors

ANSI Aluminum Flange

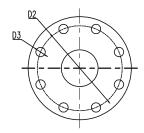


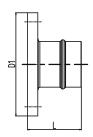


| AIRpipe | Pipe End Size | Flange Size (in) | Bolt Size | L | D1 | D2 | D3 |
|---------|------------------|---------------------|--------------|-----|-----|-------|----|
| 6170 | 2-1/2" | 2-1/2" | M16 | 85 | 180 | 139.7 | 18 |
| 7170 | 3" | 3" | M16 | 82 | 190 | 152.4 | 18 |
| 8170 | 4" | 4" | M16 | 92 | 230 | 190.5 | 18 |
| 9170 | 6" | 6" | M20 | 100 | 280 | 241.3 | 22 |
| A170 | 8" | 8" | M20 | 109 | 345 | 298.5 | 22 |

ANSI Aluminum Reducing Flange







| AIRplpe | Pipe End Size | Flange Size (in) | Bolt Size | L | D1 | D2 | D3 |
|---------|------------------|---------------------|--------------|-----|-----|-------|----|
| 7671 | 2-1/2" | 3" | M16 | 85 | 190 | 152.4 | 18 |
| 8671 | 2-1/2" | 4" | M16 | 87 | 230 | 190.5 | 18 |
| 6771 | 3" | 2-1/2" | M16 | 87 | 180 | 139.7 | 18 |
| 8771 | 3" | 4" | M16 | 84 | 230 | 190.5 | 18 |
| 0771 | 3" | 4-1/2" | M16 | 84 | 255 | 215.9 | 22 |
| 7871 | 4" | 3" | M16 | 92 | 190 | 152.4 | 18 |
| 0871 | 4" | 4-1/2" | M20 | 92 | 255 | 215.9 | 22 |
| 9871 | 4" | 6" | M20 | 92 | 280 | 241.3 | 18 |
| 0971 | 6" | 4-1/2" | M20 | 100 | 255 | 215.9 | 22 |

^{*} Includes bolts and gasket.
* Supplied with one union connector.

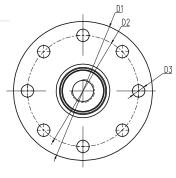
^{*} Includes bolts and gasket.
* Supplied with one union connector.

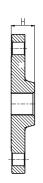
ANSI Female Threaded Flange





- * Includes 1 gasket and 4 bolts(7cm) for DN25/DN40/DN50/DN63
- * Includes 1 gasket and 8 bolts(7cm) for DN80/DN100/DN150





| AIRpipe | Nominal Diameter | Female Thread | Bolt Size | D1 | D2 | D3 | Н |
|---------|---------------------|------------------|--------------|-----|-------|----|----|
| 2270 | 25 | 1" | M14 | 110 | 79.4 | 14 | 16 |
| 4470 | 40 | 1-1/2" | M14 | 125 | 98.4 | 18 | 21 |
| 5570 | 50 | 2" | M16 | 150 | 120.7 | 18 | 24 |
| 6270 | 63 | 1" | M16 | 180 | 139.7 | 18 | 27 |
| 6470 | 63 | 1-1/2" | M16 | 180 | 139.7 | 18 | 27 |
| 6570 | 63 | 2" | M16 | 180 | 139.7 | 18 | 27 |
| 7270 | 80 | 1" | M16 | 190 | 152.4 | 18 | 29 |
| 7470 | 80 | 1-1/2" | M16 | 190 | 152.4 | 18 | 29 |
| 7570 | 80 | 2" | M16 | 190 | 152.4 | 18 | 29 |
| 7670 | 80 | 2-1/2" | M16 | 190 | 152.4 | 18 | 29 |
| 8470 | 100 | 1-1/2" | M16 | 230 | 190.5 | 18 | 32 |
| 8570 | 100 | 2" | M16 | 230 | 190.5 | 18 | 32 |
| 8670 | 100 | 2-1/2" | M16 | 230 | 190.5 | 18 | 32 |
| 9470 | 150 | 1-1/2" | M20 | 280 | 241.3 | 22 | 38 |
| 9570 | 150 | 2" | M20 | 280 | 241.3 | 22 | 38 |
| 9670 | 150 | 2-1/2" | M20 | 280 | 241.3 | 22 | 38 |
| 9770 | 150 | 3" | M20 | 280 | 241.3 | 22 | 38 |

^{*} Above flange material: Stainless steel.

| AIRpipe | Nominal Diameter | Female Thread | Bolt Size | D1 | D2 | D3 | Н |
|---------|---------------------|------------------|--------------|-----|-------|----|----|
| 2279 | 25 | 1" | M14 | 110 | 79.4 | 14 | 16 |
| 4479 | 40 | 1-1/2" | M14 | 125 | 98.4 | 18 | 21 |
| 5579 | 50 | 2" | M16 | 150 | 120.7 | 18 | 24 |
| 6279 | 63 | 1" | M16 | 180 | 139.7 | 18 | 27 |
| 6479 | 63 | 1-1/2" | M16 | 180 | 139.7 | 18 | 27 |
| 6579 | 63 | 2" | M16 | 180 | 139.7 | 18 | 27 |
| 7279 | 80 | 1" | M16 | 190 | 152.4 | 18 | 29 |
| 7479 | 80 | 1-1/2" | M16 | 190 | 152.4 | 18 | 29 |
| 7579 | 80 | 2" | M16 | 190 | 152.4 | 18 | 29 |
| 7679 | 80 | 2-1/2" | M16 | 190 | 152.4 | 18 | 29 |
| 8479 | 100 | 1-1/2" | M16 | 230 | 190.5 | 18 | 32 |
| 8579 | 100 | 2" | M16 | 230 | 190.5 | 18 | 32 |
| 9279 | 150 | 1" | M20 | 230 | 190.5 | 18 | 32 |
| 9479 | 150 | 1-1/2" | M20 | 280 | 241.3 | 22 | 38 |
| 9579 | 150 | 2" | M20 | 280 | 241.3 | 22 | 38 |
| 9679 | 150 | 2-1/2" | M20 | 280 | 241.3 | 22 | 38 |
| 9779 | 150 | 3" | M20 | 280 | 241.3 | 22 | 38 |

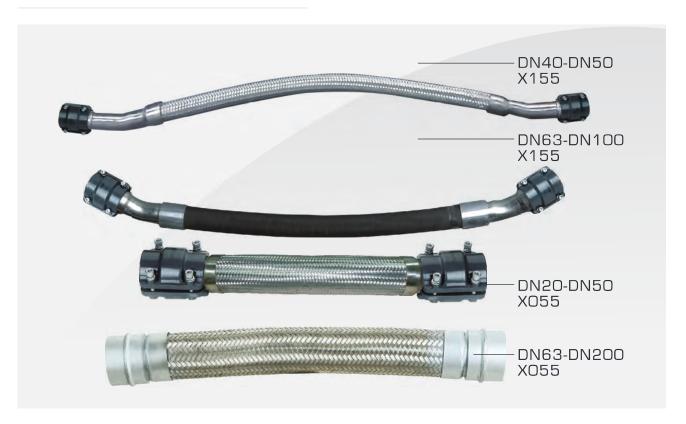
^{*} Above flange material: Carbon steel.

Flexible Hose

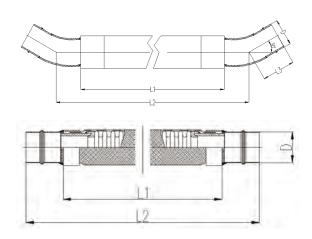
- Suitable for compressor & equipment outlets to absorb vibration
- Bypass obstacles

- Allows for expansion and contraction of loops
- Resistant to mineral and synthetic lubricated oils

Flexible Hoses



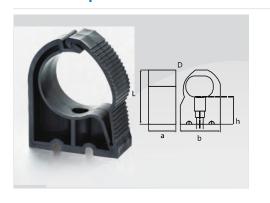
| AIRpipe | Nominal Diameter | D | L1 | L2 | Remark |
|---------|---------------------|-------|-------|-------|------------------------------------|
| 4155 | 40 | 40.1 | 39.37 | 47.24 | SS304 material, 30° |
| 5155 | 50 | 50.1 | 43.31 | 53.15 | 55504 Material, 50 |
| 6155 | 63 | 67.6 | 47.24 | 53.15 | |
| 7155 | 80 | 84.8 | 66.93 | 72.83 | Rubber material, 30° |
| 8155 | 100 | 101.8 | 66.93 | 74.80 | |
| 1055 | 20 | 20.1 | 19.69 | 22.44 | |
| 2055 | 25 | 25.1 | 19.69 | 22.44 | SS304 material |
| 4055 | 40 | 40.1 | 19.69 | 23.62 | Straight connection |
| 5055 | 50 | 50.1 | 19.69 | 23.62 | |
| 6055 | 63 | 67.6 | 19.69 | 25.59 | |
| 7055 | 80 | 84.8 | 19.69 | 25.59 | |
| 8055 | 100 | 101.8 | 19.69 | 25.98 | SS304 material Straight connection |
| 9055 | 150 | 153 | 35.43 | 41.89 | Straight Sofficetion |
| A055 | 200 | 205 | 55.12 | 61.18 | |



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 system

Fixture Clip

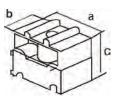


| AIRpipe | D | | L | Н | а | b |
|---------|-----|------|-----|------|----|-----|
| 1022 | 20 | 3/8" | 56 | 30 | 30 | 31 |
| 2022 | 25 | 3/8" | 60 | 27.5 | 30 | 38 |
| 4022 | 40 | 3/8" | 101 | 50 | 40 | 60 |
| 5022 | 50 | 3/8" | 108 | 45 | 40 | 75 |
| 6022 | 63 | 3/8" | 118 | 38.5 | 40 | 94 |
| 7022 | 80 | 3/8" | 172 | 71 | 50 | 119 |
| 8022 | 100 | 3/8" | 209 | 83 | 60 | 162 |

^{* 3/8&}quot;-16 threaded rod port.

Clip Spacer





| AIRpipe | Compatible sizes | а | b | С |
|---------|------------------|----|----|------|
| 0027 | 20~25 | 30 | 49 | 34.4 |
| 0127 | 40~63 | 30 | 94 | 29.4 |

- * Spacer clip 0027 is used to create a level plane for 3/4" or 1" diameters transitioning to 1-1/2", 2", or 2-1/2".
- * Spacer clip 0127 is used to create a level plane for 1-½", 2", or $2-\frac{1}{2}$ " diameters transitioning to 3" or 4".

Unistrut Nut



| AIRpipe | Applicable Diameter |
|---------|-----------------------------|
| 0227 | 3/4" - 16 threaded Rod Port |

Fixture Clip (Steel)

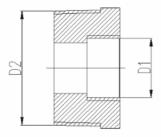


| AIRpipe | Diameter |
|---------|----------|
| 4122 | 40 |
| 5122 | 50 |
| 6122 | 63 |
| 7122 | 80 |
| 8122 | 100 |
| 9122 | 150 |
| A122 | 200 |

^{* 3/8&}quot;-16 threaded rod port.

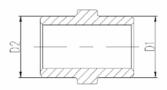
Threaded Adapter





| AIRpipe(NPT) | Female D1 | Male D2 | Material |
|--------------|-----------|---------|----------|
| 4950 | 1" | 1-1/2" | Aluminum |
| 5050 | 1" | 2" | Aluminum |
| 5450 | 1-1/2" | 2" | Aluminum |
| 6250 | 1" | 2-1/2" | Aluminum |
| 6550 | 2" | 2-1/2" | Aluminum |
| 7250 | 1" | 3" | Aluminum |
| 7450 | 1-1/2" | 3" | Aluminum |
| 7550 | 2" | 3" | Aluminum |
| 7650 | 2-1/2" | 3" | Aluminum |
| 8250 | 1/2" | 3/4" | Aluminum |
| 8350 | 1/2" | 1/4" | Aluminum |
| 8550 | 1/2" | 1" | Aluminum |
| 8750 | 3/8" | 1/2" | Aluminum |

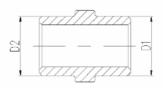




| AIRpipe(NPT) | D1 | D2 | Material |
|--------------|------|------|----------|
| 8150 | 1" | 3/4" | Aluminum |
| 8450 | 1/2" | 1/4" | Aluminum |
| 8650 | 3/4" | 1/2" | Aluminum |

Threaded Adapter





| AIRpipe (NPT) | D1 | D2 | Material |
|---------------|--------|--------|----------|
| 0031 | 1/2" | 1/2" | Aluminum |
| 1131 | 3/4" | 3/4" | Aluminum |
| 2231 | 1" | 1" | Aluminum |
| 4431 | 1-1/2" | 1-1/2" | Aluminum |
| 5531 | 2" | 2" | Aluminum |

^{*} Note: Used for the connection between two filters.

Manifolds







| AIRpipe(NPT) | D | Connection Port |
|--------------|---------|---------------------|
| 0283 | Male ½" | Two-port manifold |
| 0383 | Male ½" | Three-port manifold |
| 0783 | Male ½" | Four-port manifold |

 $^{^{\}star}$ Inlets and outlets are ½".

Universal Quick Couplers



| AIRpipe | Applicable Diameter |
|---------|---|
| 1484 | $\ensuremath{\ensuremath{\mathcal{U}}}$ " Universal Quick Coupler (ISO 6150B/ Automotive), $\ensuremath{\ensuremath{\mathcal{U}}}$ " Male NPT |
| 3884 | % " Universal Quick Coupler (ISO 6150B/ Automotive), ½" Male NPT |
| 4284 | 1/4" Male NPT Automotive Nipple |
| 8284 | 3/6" Male NPT Automotive Nipple |
| 4184 | 1/4" Male NPT Industrial (ISO B) Nipple |
| 8184 | ³⁄₀" Male NPT Industrial (ISO B) Nipple |

Demo Case



| AIRpipe | Н | L | ı |
|---------|-----|-----|-----|
| 0146 | 200 | 270 | 190 |

^{*} Couplers are available through AIRpipe.

Tools

Tool Bag (PN 0045)



- * Contains all tooling for DN20-50, along with hex and hole saw bits for all diameters and quick drop fittings.
- * For DN80 and DN100 pipe installation, 0140 and 0844 are needed.
- * For DN150 and DN200 pipe installation, 0340 and 0844 are needed.

| AIRpipe | Component Description |
|---------|--|
| 0141 | 20 mm to 50 mm (3/4" to 2") Pipe Deburrer |
| 0042 | 20 mm to 200 mm (¾" to 82") Hole Deburrer |
| 0643 | Drill Arbor & Pilot Bits for 38 and 51 mm Hole Saw Bits |
| 0543 | 51 mm Hole Saw Bit |
| 0443 | 38 mm Hole Saw Bit |
| 0343 | 25 mm Hole Saw Bit |
| 0243 | Drill Arbor & Pilot Bits for 16,22,and 25 mm Hole Saw Bits |
| 0843 | 22 mm Hole Saw Bit |
| 0743 | 16 mm Hole Saw Bit |
| 0040 | 20 mm to 63mm ($\frac{3}{4}$ " to 2- $\frac{1}{2}$ ") Pipe Cutter |
| PM | Permanent Marker |
| 0044 | Pipe Insertion Depth Gauge |
| 4 mm | 4 mm Hex Bit (2" in length) for Drill |
| 5 mm | 5 mm Hex Bit (2" in length) for Drill |
| 6 mm | 6 mm Hex Bit (2" in length) for Drill |
| 8 mm | 8 mm Hex Bit (2" in length) for Drill |
| 0046 | Logoed Canvas Bag |

^{*} Items are available for individual purchase.

Electric Pipe Cutter



| AIRpipe | Applicable Diameter |
|---------|---------------------|
| 0344 | DN63 - DN200 |

Aluminum Pipe Cutter



| AIRpipe | L | Н | Applicable Diameter |
|---------|-----|----|---------------------|
| 0040 | 220 | 40 | DN63 - DN200 |
| 0140 | 240 | 40 | DN40 - DN100 |

Aluminum Pipe Deburrer



| AIRpipe | L | Н | Applicable Diameter |
|---------|----|----|---------------------|
| 0141 | 90 | 70 | DN20 - DN50 |

Hole Deburrer



| AIRpipe | L | Applicable Diameter | | |
|---------|-----|---------------------|--|--|
| 0042 | 160 | DN20 - DN200 | | |

Drill Arbor & Pilot Bit



| AIRpipe | L | Applicable Drill | Applicable Diameter |
|---------|-----|------------------|---------------------|
| 0243 | 110 | 16-25 | DN25 - DN100 |
| 0643 | 110 | 38-51 | DN150 - DN200 |

Hole Saw Bit



| AIRpipe | L | Hole Saw Bit Size | Applicable Diameter |
|---------|----|----------------------|---------------------|
| 0743 | 50 | 16 | DN25 |
| 0843 | 50 | 22 | DN40 |
| 0343 | 50 | 25 | DN50 - DN200 |
| 0443 | 50 | 38 | DN100 |
| 0543 | 50 | 51 | DN150 - DN200 |

Portable Lugging Machine



| AIRpipe | Applicable Diameter | Remark |
|---------|---------------------|------------------------|
| 0844 | DN63 - DN200 | Contains every jaw set |

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 3/4" 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.

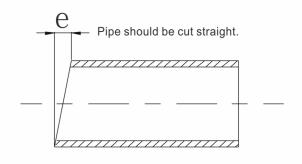


Cutting the pipe

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



Use part number 0040 for pipe diameters 3/4" to 2-1/2". Use part number 0140 for pipe diameters 1-1/2" to 4".



| Nominal Diameter | Cutting slope of pipe and allowable deviation (e) |
|------------------|---|
| 20 - 80 | 1.0 |
| 100 - 150 | 1.4 |
| 200 | 2.0 |

Superior Reliability!

Quick and Easy Installation

Sizing Chart for Quick Drops Pilot Bit Hole Saw DN (MM)

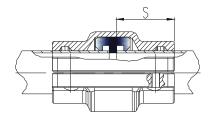
| Pilot Bit | Hole Saw | DN (MM) | Quick Drops (PN) | | | | | | |
|-----------|----------|---------|------------------|------|------|------|------|------|--|
| 0243 | 0743 | Ф16 | 2110 | 2210 | 2011 | | | | |
| 0243 | 0843 | Ф22 | 4110 | 4210 | 4011 | 4111 | | | |
| | | | 5110 | 5210 | 6110 | 6210 | 7110 | 7210 | |
| | | | | 8110 | 8210 | 9110 | 9210 | A210 | |
| | | | 5011 | 5111 | 6011 | 6111 | 7011 | 7111 | |
| 0243 | 0343 | 0343 | Ф25 | 8011 | 9011 | | | | |
| | | | 5099 | 6099 | 7099 | 8099 | 9099 | A099 | |
| | | | 5199 | 6199 | 7199 | 8199 | 9199 | A199 | |
| 0643 | 0443 | Ф38 | 8410 | | | | | | |
| 0643 | 0543 | Ф51 | 9410 | 9510 | A410 | A510 | | | |







Insertion Depth S For DN20-DN50 Connector

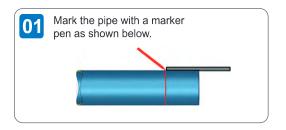




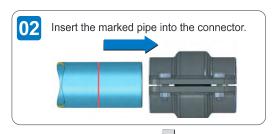
| DN | Insertion depth S (IN) |
|----|------------------------|
| 20 | 1.14" |
| 25 | 1.14" |
| 40 | 1.53" |
| 50 | 1.53" |

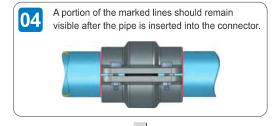
• "S" denotes the insertion depth of the pipe into the connector.

Installation Guide for DN20-DN50

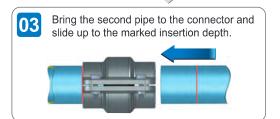


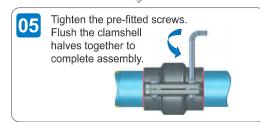




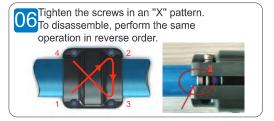






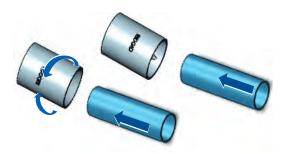






Deburr The Outer and Inner Edges Before Installation

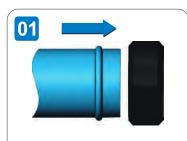
 Use 0141 for DN20-DN50 to deburr the outer edges and also deburr the inner end.



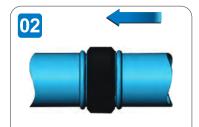
• Use a file for DN63-DN200 to chamfer the outer edges; Make sure of a deburring tool to deburr the inside of the pipe end.



Installation Guide for DN63-DN200



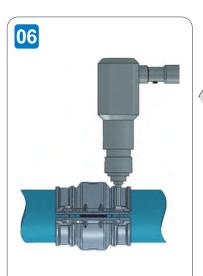
Slide the seal over the edge of the pipe so that it sits flush with the lugged edge.



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



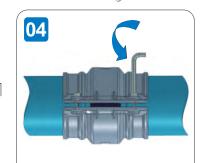
Position the clamshell over the seal.



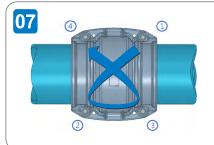
Tighten the pre-fitted screws. Flush the clamshell halves together to complete assembly.



Pull the pipe back towards the outside of the clamshell to complete alignment.



Tighten the pre-fitted screws.



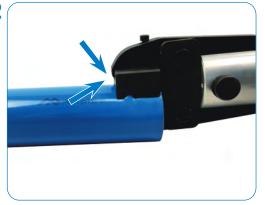
For effective assembly, tighten the screws in an "X" pattern. To disassemble, perform the same operation in reverse order.

Hand-held hydraulic lugging machine operation requirements

01

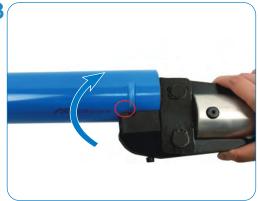


 Manually open the jaws of the clamp and insert the aluminum pipe into the clamp as far as possible. 02



 Release the jaws. Press the trigger and crimp the pipe until a "snap" sound is heard.

03



 Re-open the two jaws to remove the pipe and rotate the pipe slightly. Put the jaw side to the mark position. 04



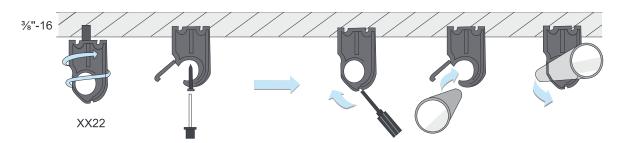
• Renew the operation until the required minimum number of lugs for each diameter is finished.

Hand-held hydraulic lugging machine operation requirements

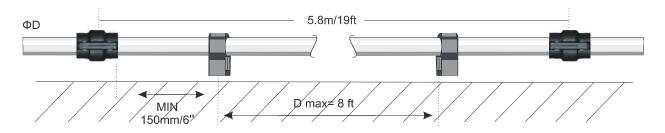
| AIRPIPE | DN63 | DN80 | DN100 | DN150 | DN200 |
|---------------------|------|------|-------|-------|-------|
| Min. number of lugs | 5 | 6 | 6 | 9 | 12 |

* Note: Do not overlap the lugs!

Pipe Clip

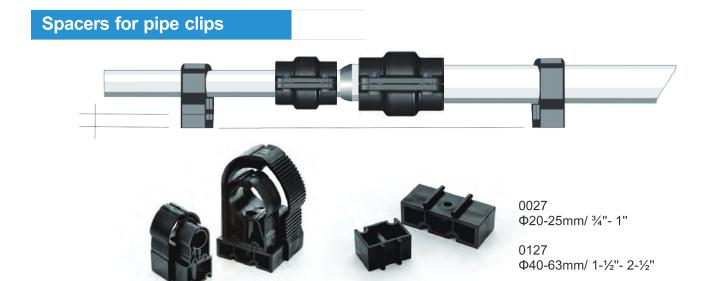


AIRpipe's pipe clips are designed for versatility. They can be secured via all-thread rod through the clips internal %"-16 nut, or mounted directly with wall anchors.



The bolt size \(^{3}\epsilon^{\text{"}}-16\) is suitable for all fixing clips.

This clip allows expansion and contraction of the pipe to occur freely. The fixing clip should be fixed at the min. distance of 6 inch (150mm) from the connector in order to allow for the expansion and contraction effect .



Spacer clip 0027 is used to create a level plane for $\frac{3}{4}$ " or 1" diameters transitioning to $\frac{1-\frac{1}{2}}{2}$, 2", or $\frac{2-\frac{1}{2}}{2}$ ". Spacer clip 0127 is used to create a level plane for $\frac{1-\frac{1}{2}}{2}$, 2", or $\frac{2-\frac{1}{2}}{2}$ " 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 drill arbor & hole saw bit required by locating the quick drop part number on the sizing chart.

Note: the quick drop part number is located on the connector.

03



 With the proper drill arbor & hole saw bit part numbers identified, thread the hole saw bit onto the drill arbor to create a single drill bit. 04



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

80



• Tighten the bolt to complete 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.
 - I. Horizontal and vertical AIRpipe piping shall be supported by AIRpipe pipe clips.

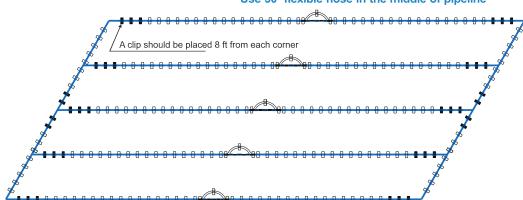
 Hangers to be spaced at intervals as described herein, as required to avoid sag, prevent vibration, and allow accurate leveling or grading.

| Number | ΔΤ | Reference table: Allowable max. installation distance L (meters) | | | | | | | | |
|--------|------|--|--------------------------------|------|------|------|------|-------|-------|-------|
| | (°C) | DN20 | 0 DN25 | DN40 | DN50 | DN63 | DN80 | DN100 | DN150 | DN200 |
| 1 | 20°C | | The pipe ng can prolong itself | 120 | 120 | 110 | 105 | 95 | 80 | 75 |
| 2 | 25°C | The pipe can prolong | | 115 | 115 | 105 | 100 | 90 | 75 | 70 |
| 3 | 30°C | | | 110 | 110 | 100 | 95 | 85 | 70 | 65 |
| 4 | 35℃ | itself | | 100 | 100 | 90 | 90 | 80 | 65 | 60 |
| 5 | 40°C | | | 90 | 90 | 85 | 75 | 70 | 60 | 55 |

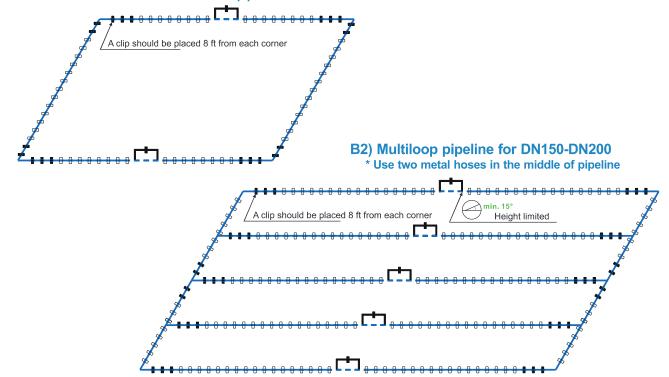
A1) Single loop pipeline for DN40-DN100 * Use 30° flexible hose in the middle of pipeline

A clip should be placed 8 ft from each corner

A2) Multiloop pipeline for DN40-DN100 * Use 30° flexible hose in the middle of pipeline



B1) Single loop pipeline for DN150-DN200 * Use two metal hoses in the middle of pipeline











We provide superior performing compressed air & gas systems with engineered longevity to reduce operating costs and improve productivity.



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