



ENGINEERED FOR SUPERIOR PERFORMANCE

Compressed Air & Gas Systems

Catalog



Distributed by





Engineered for
Superior Performance



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

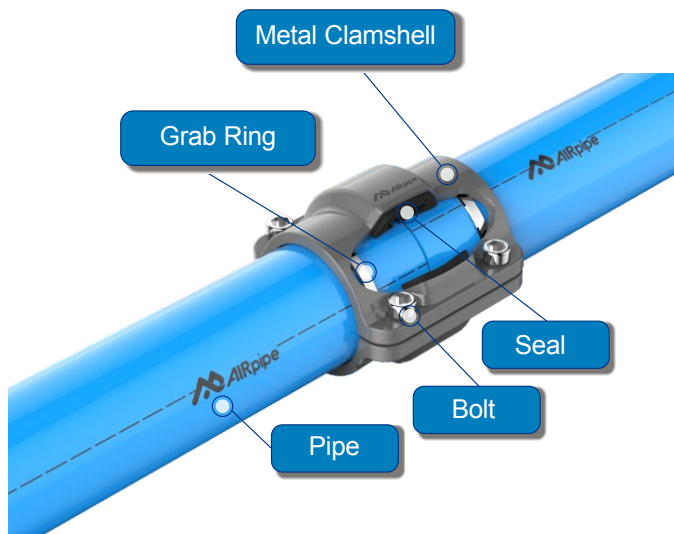
- The smooth interior design and high-flow connectors ensures a constant supply of clean air at a reduced pressure drop, resulting in significant energy savings.
- Guaranteed leak-free performance and superior longevity versus traditional pipe systems.

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.

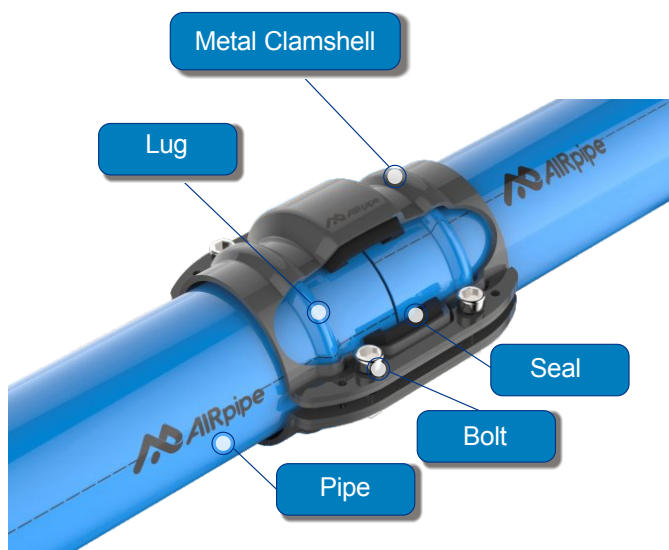
Technical Specifications

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	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	3/4"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"
75	3/4"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"
100	1"	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 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
250	1 1/2"	1 1/2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	3"	3"
500	1 1/2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	4"	4"
750	2"	2 1/2"	2 1/2"	3"	3"	3"	4"	4"	4"	6"
900	2"	2 1/2"	3"	3"	3"	3"	4"	6"	6"	6"
1000	2"	2 1/2"	3"	3"	3"	4"	4"	6"	6"	6"
1350	2 1/2"	2 1/2"	3"	3"	3"	4"	6"	6"	6"	6"
1500	2 1/2"	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	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 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
100	3/4"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"
150	3/4"	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 1/2"	2 1/2"	2 1/2"
500	1 1/2"	1 1/2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	3"	3"
750	1 1/2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	3"	3"
900	1 1/2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	3"	4"
1000	1 1/2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	4"	4"
1350	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	4"	4"	4"	6"
1500	2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	4"	4"	4"	6"
3500	2 1/2"	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 ivysads.com/industrial-compressed-air to use our interactive sizing tool.

Warranty and Certifications



10 Year Limited Warranty

- AIRpipe warrants 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. 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. In no event shall AIRpipe, 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 does not warrant the design, assembly or installation of the system, but only the components listed within AIRpipe's price list. AIRpipe is not responsible for improper assembly, installation, or for any modifications of the product

The warranty is void upon

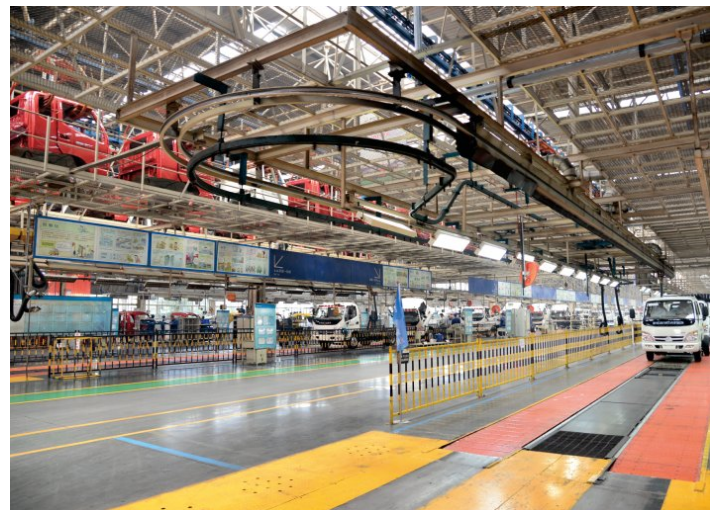
- Failure to follow assembly or installation guidelines;
- Alteration, misuse or abuse of, or damage to the products;
- Operation beyond the design range, excessive pressure, stress, or mishandling in any way;
- Use other than for the intended purpose or in a manner other than specified by AIRpipe.

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



CONTENT

Rigid Aluminum Pipe	 	08
Connectors	 	09
Quick Drop Connectors	 	15
Wall Brackets & Valved Connectors	 	16
Flanged Connectors	 	18
Flexible Hose	 	20
Fixtures & Accessories	 	21
Tools	 	24
Installing AIRpipe	 	26

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.

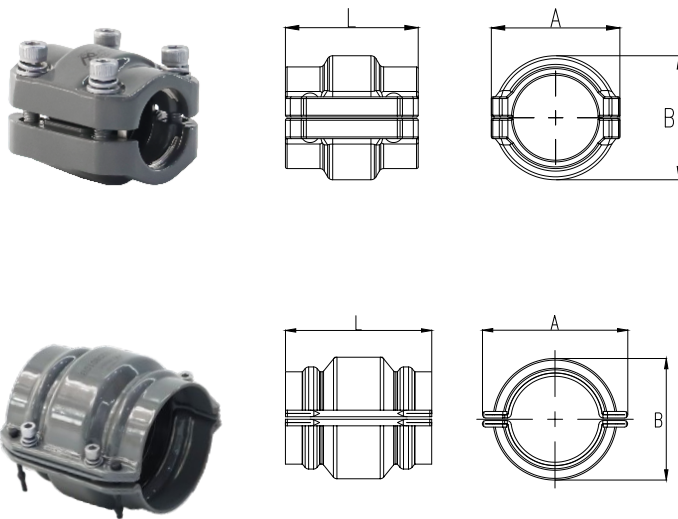
<i>AIRpipe</i>	Nominal Diameter	OD(mm)	ID(mm)	L(M)
1000	20	20.1	17.5	5.8
2000	25	25.1	22.5	5.8
4000	40	40.1	36.9	5.8
5000	50	50.1	46.5	5.8
6000	63	67.6	63.6	5.8
7000	80	84.8	80.4	5.8
8000	100	101.8	96.8	5.8
9000	150	153	147.5	5.8
A000	200	205	198	5.8
1062	20	20.1	17.5	5.8
2062	25	25.1	22.5	5.8
4062	40	40.1	36.9	5.8
5062	50	50.1	46.5	5.8
6062	63	67.6	63.6	5.8
7062	80	84.8	80.4	5.8
8062	100	101.8	96.8	5.8
9062	150	153	147.5	5.8
A062	200	205	198	5.8
1061	20	20.1	17.5	5.8
2061	25	25.1	22.5	5.8
4061	40	40.1	36.9	5.8
5061	50	50.1	46.5	5.8
6061	63	67.6	63.6	5.8
7061	80	84.8	80.4	5.8
8061	100	101.8	96.8	5.8
9061	150	153	147.5	5.8
A061	200	205	198	5.8
M000	250	273	267	5.8

*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



<i>AIRpipe</i>	Nominal Diameter	L	A	B
1002	20	59	41	39
2002	25	59	51	44
4002	40	78	69	60
5002	50	79	81	74

*Viton seals for high temperature applications are available

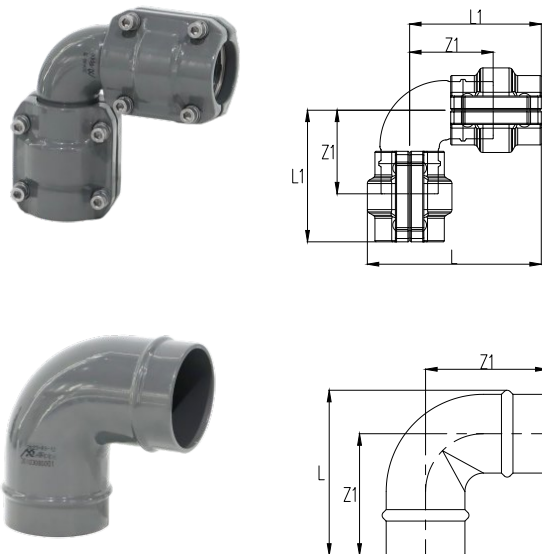
<i>AIRpipe</i>	Nominal Diameter	L	A	B
6002	63	114	97	113
7002	80	114	114	137
8002	100	134	131	151
9002	150	146	184	224
A002	200	134	236	280
M002	250	120	304	347

*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



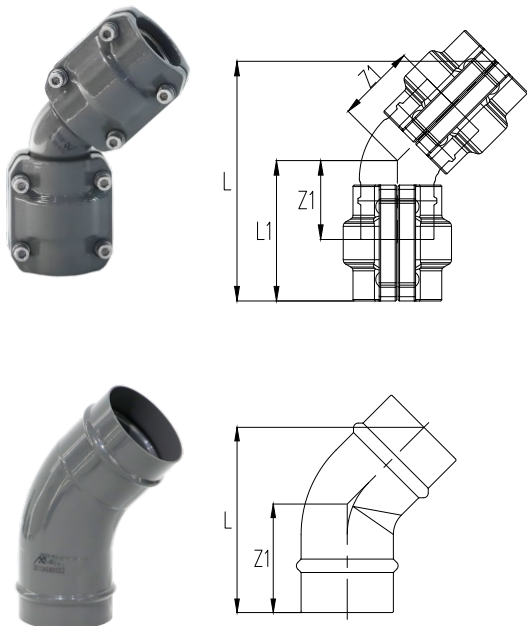
<i>AIRpipe</i>	Nominal Diameter	L1	L	Z1
1003	20	80	99	49
2003	25	83	105	52
4003	40	109	139	69
5003	50	116	153	73

<i>AIRpipe</i>	Nominal Diameter	L	Z1
6003	63	143	105
7003	80	156	110
8003	100	194	140
9003	150	265	185
A003	200	313	208
M003	250	483	343

* Supplied with (2) union connectors.

* M003 material: Stainless steel 304.

Equal 45° Elbow



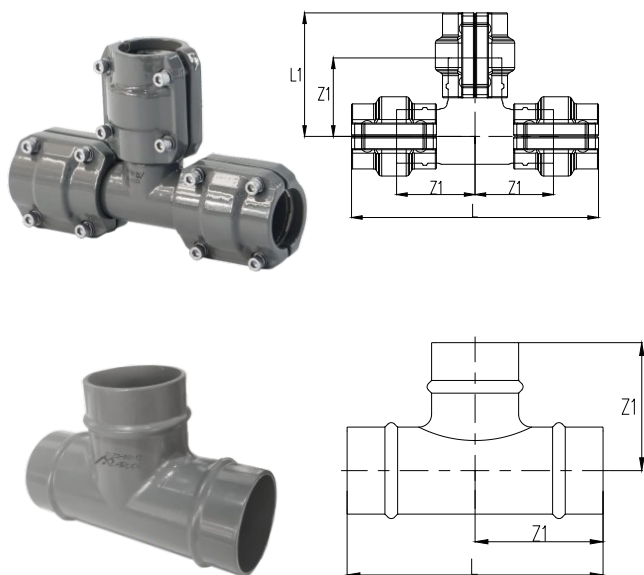
<i>AIRpipe</i>	Nominal Diameter	L	L1	Z1
1004	20	119	70	39
2004	25	121	71	40
4004	40	159	93	52
5004	50	164	96	54

<i>AIRpipe</i>	Nominal Diameter	L	Z1
6004	63	180	103
7004	80	193	110
8004	100	214	122
9004	150	258	146
A004	200	230	130
M004	250	360	210

* Supplied with (2) union connectors.

* 6004, 7004, 8004, 9004, M004 material: Stainless steel 304.

Equal Tee



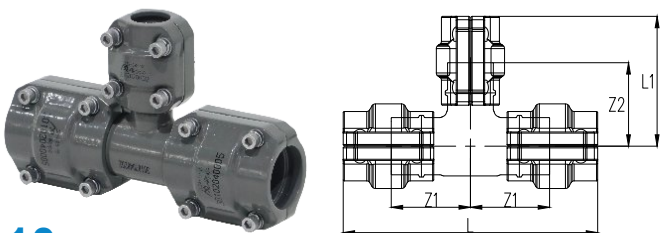
<i>AIRpipe</i>	Nominal Diameter	L	L1	Z1
1005	20	159	80	49
2005	25	166	83	52
4005	40	218	109	69
5005	50	232	116	74

<i>AIRpipe</i>	Nominal Diameter	L	Z1
6005	63	210	105
7005	80	220	110
8005	100	280	140
9005	150	370	185
A005	200	375	188
M005	250	455	277

* Supplied with (3) union connectors.

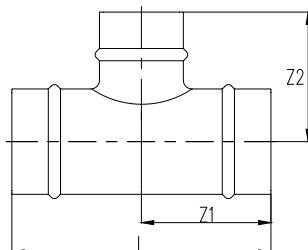
* M005 material: Stainless steel 304.

Reducing Tee



<i>AIRpipe</i>	Nominal Diameter	L	Z1	Z2	L1
2107	25X20	161	49.5	51	82
4207	40X25	202	61	60	91
5207	50X25	215	65	66	97
5407	50X40	223	69.5	73	114

Reducing Tee

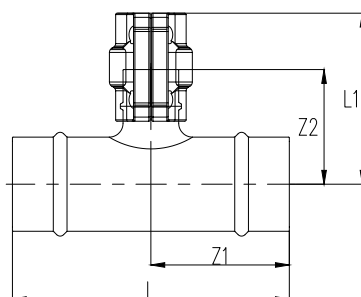


<i>AIRpipe</i>	Nominal Diameter	L	Z1	Z2
7607	80X63	220	110	110
8607	100X63	246	123	118
8707	100X80	246	123	121
9607	150X63	242	121	150
9707	150X80	262	131	147
9807	150X100	272	136	162
A607	200X63	239	120	171
A707	200X80	255	128	171
A807	200X100	275	138	171
A907	200X150	345	173	183
MA07	250X200	380	191	252

* Supplied with (3) union connectors.

* MA07 material: Stainless steel 304.

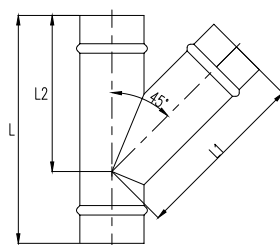
Reducing Tee



<i>AIRpipe</i>	Nominal Diameter	L	Z1	L1	Z2
6407	63X40	210	105	124	84
6507	63X50	210	105	125	83
7407	80X40	220	110	132	92
7507	80X50	220	110	134	92
8507	100X50	226	113	142	100

* Supplied with (2) union connectors.

Equal Lateral Wye

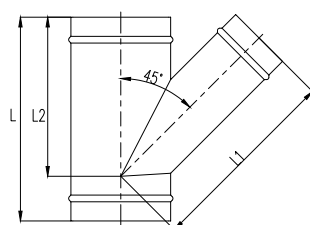


<i>AIRpipe</i>	Nominal Diameter	L	L1	L2
6009	63	238	184	163
7009	80	263	211	184
8009	100	305	246	213
9009	150	385	339	280
A009	200	459	400	347

* Supplied with (3) union connectors.

* Material: Stainless Steel 304.

Lateral Reducing Wye

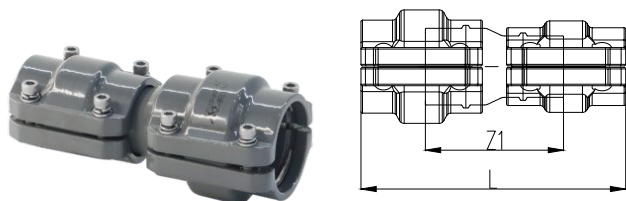


<i>AIRpipe</i>	Nominal Diameter	L	L1	L2
8712	100X80	282	226	202
9712	150X80	292	276	235
9812	150X100	313	300	244
A812	200X100	320	339	275
A912	200X150	394	377	313

* Supplied with (3) union connectors.

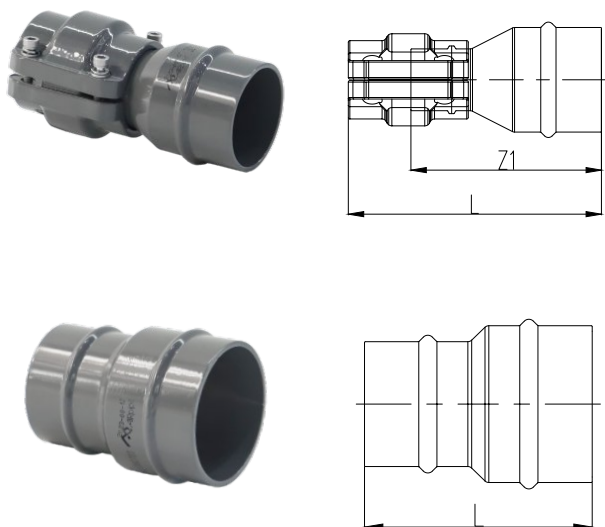
* Material: Stainless Steel 304.

Reducing Pipe to Pipe Connector



<i>AIRpipe</i>	Nominal Diameter	L	Z
2121	25X20	129	67
4221	40X25	156	84
5221	50X25	170	97
5421	50X40	173	91

Reducing Pipe to Pipe Connector



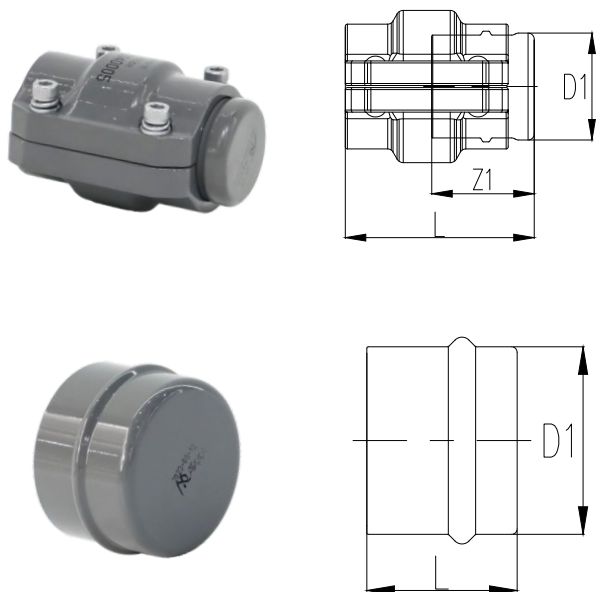
<i>AIRpipe</i>	Nominal Diameter	L	Z
6421	63X40	165	124
6521	63X50	159	117
7521	80X50	159	117

<i>AIRpipe</i>	Nominal Diameter	L
7621	80X63	129
8621	100X63	152
8721	100X80	141
9721	150X80	155
9821	150X100	172
A921	200X150	176
MA211	250X200	368

* Supplied with (2) union connectors.

* MA21 material: Stainless steel 304.

End Cap



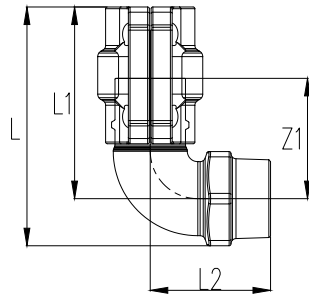
<i>AIRpipe</i>	OD(in)	L	D1	Z1
1006	20	71	22	40
2006	25	71	27	40
4006	40	90	42	49
5006	50	92	52	50

<i>AIRpipe</i>	OD(in)	L	D1
6006	63	55	68
7006	80	55	85
8006	100	70	102
9006	150	70	153
A006	200	70	205
M006	250	127	273

* Supplied with (1) union connector.

* M006 material: Stainless steel 304.

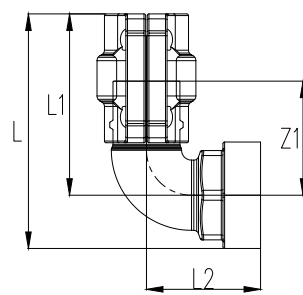
Male Threaded Elbow



<i>AIRpipe</i>	DN	L	L1	L2	Male NPT	Z1
1015	20	98	80	49	1/2"	49
1115	20	98	80	49	3/4"	49
2015	25	106	83	52	1/2"	52
2215	25	106	83	52	1"	52
4415	40	126	94	69	1 1/2"	69
5515	50	153	116	73	2"	73

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

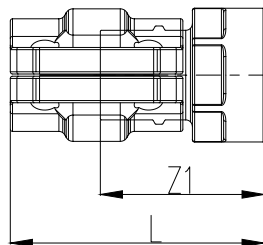
Female Threaded Elbow



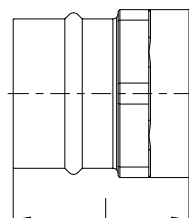
<i>AIRpipe</i>	DN	L	L1	L2	Female NPT	Z1
1013	20	98	80	49	1/2"	49
1113	20	98	80	49	3/4"	49
2013	25	106	83	52	1/2"	52
2213	25	106	83	52	1"	52
4413	40	126	94	69	1 1/2"	69
5513	50	153	116	73	2"	73

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

Female Threaded Adapter



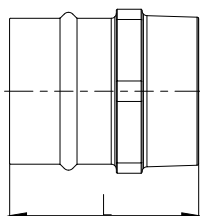
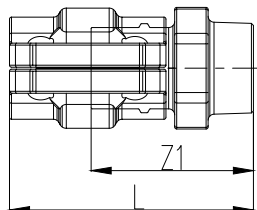
<i>AIRpipe</i>	Nominal Diameter	L	Female NPT	Z1
1019	20	84	1/2"	53
1119	20	89	3/4"	58
2019	25	83	1/2"	52
2219	25	91	1"	60
4419	40	114	1 1/2"	74
5519	50	117	2"	77



<i>AIRpipe</i>	Nominal Diameter	L	Female NPT
6619	63	94	2 1/2"
7719	80	101	3"

* Supplied with (1) union connector.

Male Threaded Adapter

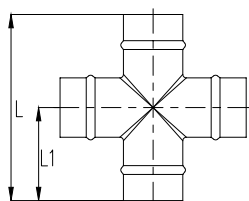


<i>AIRpipe</i>	Nominal Diameter	L	Z1	Male NPT
1017	20	93	62	1/2"
1117	20	92	61	3/4"
2017	25	92	61	1/2"
2117	25	93	62	3/4"
2217	25	96	65	1"
4217	40	122	81	1"
4317	40	122	81	1 1/4"
4417	40	123	82	1 1/2"
4517	40	132	92	2"
5417	50	124	82	1 1/2"
5517	50	128	85	2"

<i>AIRpipe</i>	Nominal Diameter	L	Male NPT
6517	63	101	2"
6617	63	103	2 1/2"
7617	80	107	2 1/2"
7717	80	113	3"

* Supplied with (1) union connector.

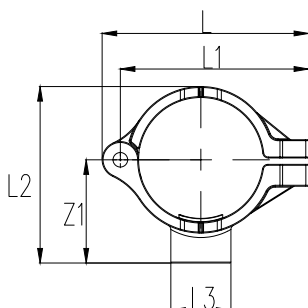
Cross Fitting



<i>AIRpipe</i>	Nominal Diameter	L	L1
6007	63	105	209
7007	80	110	220
8007	100	140	280.2
9007	150	185	370
A007	200	208	415

*Supplied with (4) union connectors.

Female Threaded Straight Quick Drop



<i>AIRpipe</i>	Saddle Pipe OD	Female NPT	L	L1	L2	L3	Female NPT	Z1	Hole Saw Bit Size
5099	50	1/2"	84	76	76.5	33	1/2"	49	25
5199	50	3/4"	84	76	76.5	33	3/4"	49	25
6099	63	1/2"	113	103	97	33	1/2"	57	25
6199	63	3/4"	113	103	97	33	3/4"	57	25
7099	80	1/2"	130.5	120.5	112	33	1/2"	63.5	25
7199	80	3/4"	130.5	120.5	112	33	3/4"	63.5	25
8099	100	1/2"	149.5	139.5	133	33	1/2"	75	25
8199	100	3/4"	149.5	139.5	133	33	3/4"	75	25
9099	150	1/2"	202	192	183	33	1/2"	99	25
9199	150	3/4"	202	192	183	33	3/4"	99	25
A099	200	1/2"	256	236	246.5	33	1/2"	133.5	25
A199	200	3/4"	256	236	246.5	33	3/4"	133.5	25

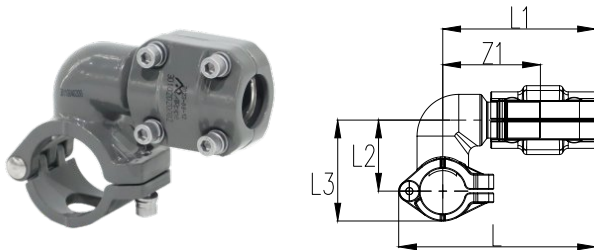
Quick Drop Connectors

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

- Optimum flow
- Captive seal

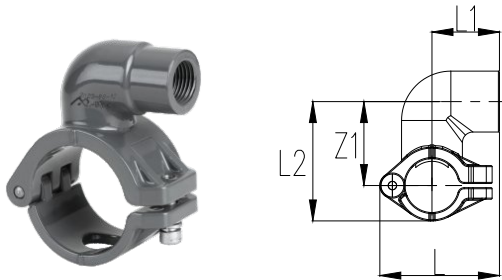
Note: the hole saw bit sizing chart is on page 28

Quick Drop



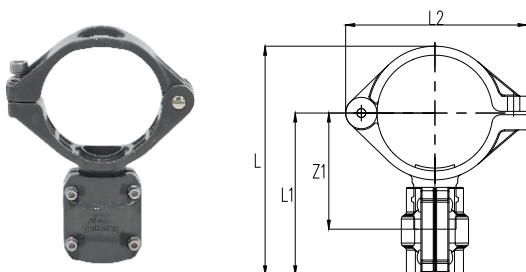
AIRpipe	Nominal Diameter	L	L1	Z	L2	L3	Hole Saw Bit Size
2110	25X20	111	86	55	40	57	16
2210	25X25	111	86	55	40	57	16
4110	40X20	126	92	61	46	71	22
4210	40X25	126	92	61	46	71	22
5110	50X20	130	89	58	54	85	25
5210	50X25	130	89	58	54	85	25
6110	63X20	137	83	52	65	105	25
6210	63X25	137	83	52	65	105	25
7110	80X20	145	83	52	74	123	25
7210	80X25	145	83	52	74	123	25
8110	100X20	155	84	53	97	155	25
8210	100X25	155	84	53	97	155	25
9110	150X20	202	83	52	122	206	25
9210	150X25	202	83	52	122	206	25
A210	200X25	256	85	54	149	262	25

Female Threaded Quick Drop



AIRpipe	DN x NPT	L	L1	L2	L3	Hole Saw Bit Size
2011	25x½"	57	32	40	57	16
4011	40x½"	73	42	46	71	22
4111	40x¾"	73	42	46	71	22
5011	50x½"	84	47	54	85	25
5111	50x¾"	84	47	54	85	25
6011	63x½"	113	47	65	105	25
6111	63x¾"	113	47	65	105	25
7011	80x½"	131	43	74	123	25
7111	80x¾"	131	47	74	123	25
8011	100x½"	150	40	97	155	25
9011	150x½"	202	40	122	206	25

Straight Quick Drop



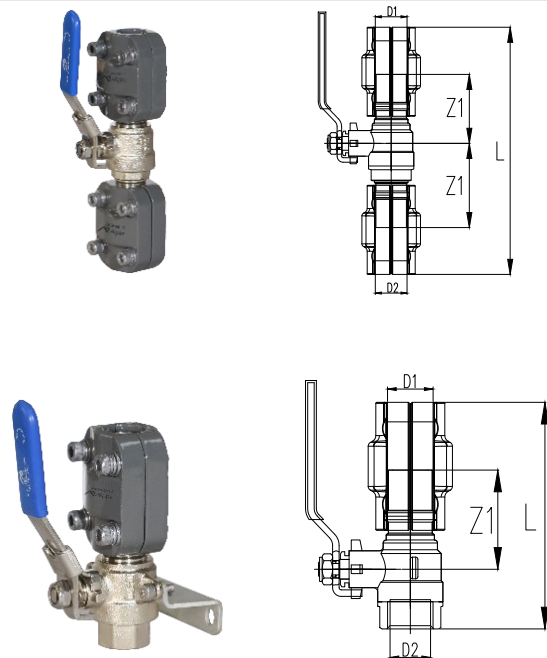
AIRpipe	Nominal Diameter	L	L1	L2	Z	Hole Saw Bit Size
8410	100X40	204	144	162	104	38
9410	150X40	267	180	215	139	51
9510	150X50	268	180	215	138	51
A410	200X50	320	207	269	166	51
A510	200X50	321	208	269	165	51

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



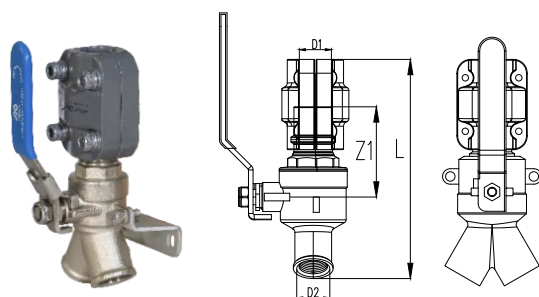
AIRpipe	Nominal Diameter	L	Z1
1052	20	164	51
2052	25	170	54
4052	40	232	75
5052	50	245	80
6052	63	324	102

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

AIRpipe	Nominal Diameter	Female NPT	L	Z1
1252	20	1/2"	105	46
2252	25	1"	114	50
2452	25	1/2"	115	50
4452	40	1 1/2"	155	72
5552	50	2"	166	74
6652	63	2 1/2"	160	96

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

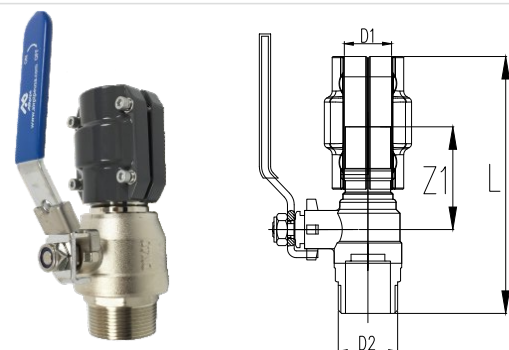
Two-port Female Wall Bracket



AIRpipe	DN	Female NPT	L	Z1
1152	20	1/2"	134	56
2152	25	1/2"	143	59

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

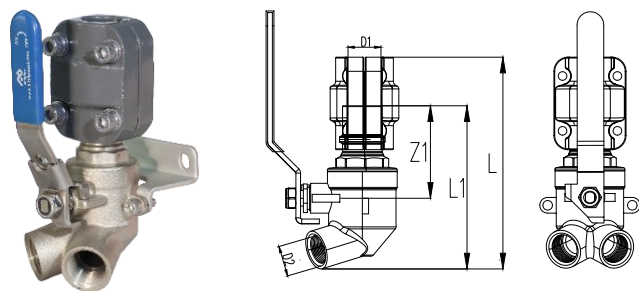
Male Threaded Quick Connect Valve



AIRpipe	DN	Male NPT	L	Z1
1352	20	3/4"	114	46
2352	25	1"	123	50
4352	40	1 1/2"	164	72
5352	50	2"	178	74
6352	63	2 1/2"	173	96

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

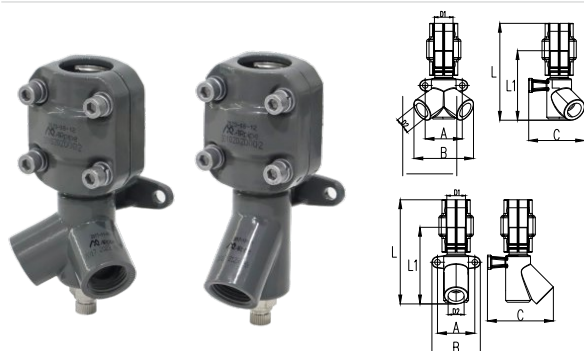
Angled Two-Port Female Wall Bracket



AIRpipe	DN	L	Z1	Female NPT
1552	20	128	56	75° Two port, 1/2"
2552	25	135	59	75° Two port, 1/2"

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

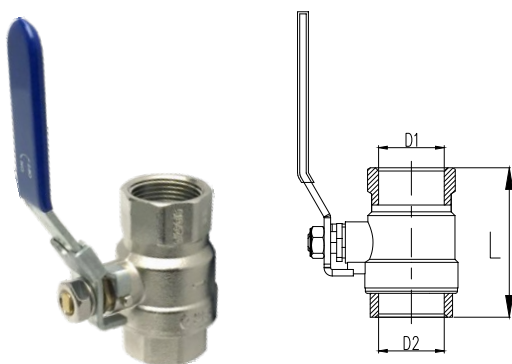
One & Two Port Angled Wall Brackets



AIRpipe	DN	L	L1	A	B	C	Female NPT
1123	20	117	86	42	55	74	45° One port, 1/2"
2123	25	117	86	42	55	74	45° One port, 1/2"
1023	20	110	79	42	68	63	45° Two ports, 1/2"
2023	25	110	79	42	68	63	45° Two ports, 1/2"

* Material of Body: Aluminium.
* Includes a 1/4" venting valve.

Threaded Ball Valve



AIRpipe	D1	D2	L	Thread
0073	1/2"	1/2"	52	Female*Female
0173	3/4"	3/4"	57	Female*Female
1073	1/2"	1/2"	61	Male*Male
1173	3/4"	3/4"	69	Male*Male
0273	1/2"	1/2"	54	Male* Female
1273	3/4"	3/4"	58	Male* Female
2073	1"	1"	69	Female*Female
4073	1 1/2"	1 1/2"	90	Female*Female
5073	2"	2"	102	Female*Female

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

Butterfly Valve Pre-Assembled

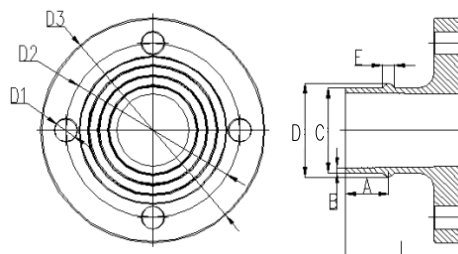
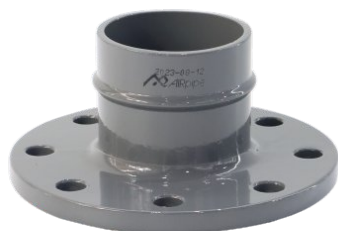


* Lever Handle: 6051, 7051, 6151, 7151
* Wheel Handle: 8051, 9051, A051, 8151, 9151, A151
* Standard Seal: NBR
* HIGH TEMPERATURE
· High temperature seal options are available(FKM/VITON)
· Higher Temperature Valves are available with PTFE seals (Special Order)
· Max working temperature 392°F

AIRpipe	DN	L	A	B	C	D	E	Material of valve
6051	63	240	35	3	68	75	10	Steel
7051	80	244	35	3	85	92	10	Steel
8051	100	275	35	4	102	109	10	Steel
9051	150	293	35	4	153	160	10	Steel
A051	200	297	35	6	205	212	10	Steel
M051	250	347	35	3	273	280	10	Steel 304
6151	63	240	35	3	68	75	10	Stainless steel
7151	80	244	35	3	85	92	10	Stainless steel
8151	100	275	35	4	102	109	10	Stainless steel
9151	150	293	35	4	153	160	10	Stainless steel
A151	200	297	35	6	205	212	10	Stainless steel

Flange Connectors (Class 150 ANSI Flanges)

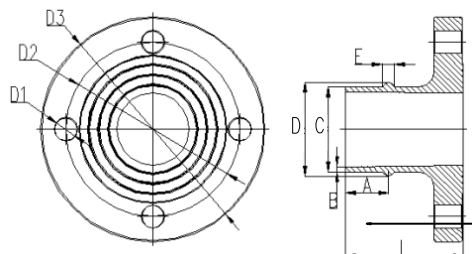
ANSI Aluminum Flange



AIRpipe	Nominal Diameter	Flange size	Bolt Size	L	D1	D2	D3
6170	63	65	M16	95	4-19	140	178
7170	80	80	M16	97	4-19	152	190
8170	100	100	M16	110	8-19	190	229
9170	150	150	M20	117	8-22	241	279
A170	200	200	M20	117	8-22	298	343
M170	250	250	M24	138	12-26	362	406

- * Includes bolts and gasket.
- * Supplied with one union connector.
- * DN63 and DN80 are 4-bolt class 150 flanges.
- * DN100 to DN200 are 8-bolt class 150 flanges.
- * MA70 material: Stainless steel 304.

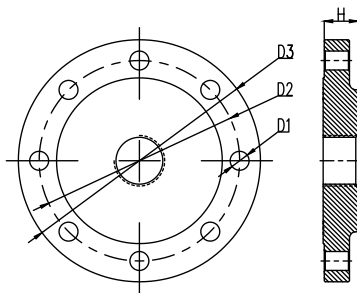
ANSI Aluminum Reducing Flange



AIRpipe	Nominal Diameter	Flange size	Bolt Size	L	D1	D2	D3
7671	80	65	M16	96	4-19	152	190
8671	100	65	M16	96	8-19	190	230
6771	63	80	M16	100	4-19	140	180
8771	100	80	M16	92	8-19	190	230
0771	125	80	M16	92	8-22	216	254
7871	80	100	M16	113	4-19	152	190
0871	125	100	M20	110	8-22	216	254
9871	150	100	M20	112	8-22	241	280
0971	125	150	M20	120	8-22	216	254
MA71	250	200	M24	132	12-26	362	405

- * Includes bolts and gasket.
- * Supplied with one union connector.
- * DN100 to DN200 are 8-bolt class 150 flanges.
- * MA71 material: Stainless steel 304.

ANSI Female Threaded Flange



* Includes 1 gasket and 4 bolts(7cm) for
DN25, DN40, DN50, DN63, DN80.

* Includes 1 gasket and 8 bolts(7cm) for
DN100, DN150.

AIRpipe	Nominal Diameter	Female NPT	Bolt Size	D1	D2	D3	H
2270	25	1"	M14	16	80	110	17
4470	40	1 1/2"	M14	16	99	125	22
5570	50	2"	M16	19	121	150	24
6270	63	1"	M16	19	140	180	27
6470	63	1 1/2"	M16	19	140	180	27
6570	63	2"	M16	19	140	180	27
7270	80	1"	M16	19	152	190	29
7470	80	1 1/2"	M16	19	152	190	29
7570	80	2"	M16	19	152	190	29
7670	80	2 1/2"	M16	19	152	190	29
8470	100	1 1/2"	M16	19	190	230	32
8570	100	2"	M16	19	190	230	32
8670	100	2 1/2"	M20	22	241	280	38
9470	150	1 1/2"	M20	22	241	280	38
9570	150	2"	M20	22	241	280	38
9670	150	2 1/2"	M20	22	241	280	38
9770	150	3"	M20	22	241	280	38

* Above flange material: Stainless.

AIRpipe	Nominal Diameter	Female NPT	Bolt Size	D1	D2	D3	H
2279	25	1"	M14	16	80	110	17
4479	40	1 1/2"	M14	16	99	125	22
5579	50	2"	M16	19	121	150	24
6279	63	1"	M16	19	140	180	27
6479	63	1 1/2"	M16	19	140	180	27
6579	63	2"	M16	19	140	180	27
7279	80	1"	M16	19	152	190	29
7479	80	1 1/2"	M16	19	152	190	29
7579	80	2"	M16	19	152	190	29
7679	80	2 1/2"	M16	19	152	190	29
8479	100	1 1/2"	M16	19	190	230	32
8579	100	2"	M16	19	190	230	32
9279	150	1"	M20	22	241	280	38
9479	150	1 1/2"	M20	22	241	280	38
9579	150	2"	M20	22	241	280	38
9679	150	2 1/2"	M20	22	241	280	38
9779	150	3"	M20	22	241	280	38

* Above flange material: Steel.

***Additional Bolt Kits and Gaskets Can Be Ordered.**

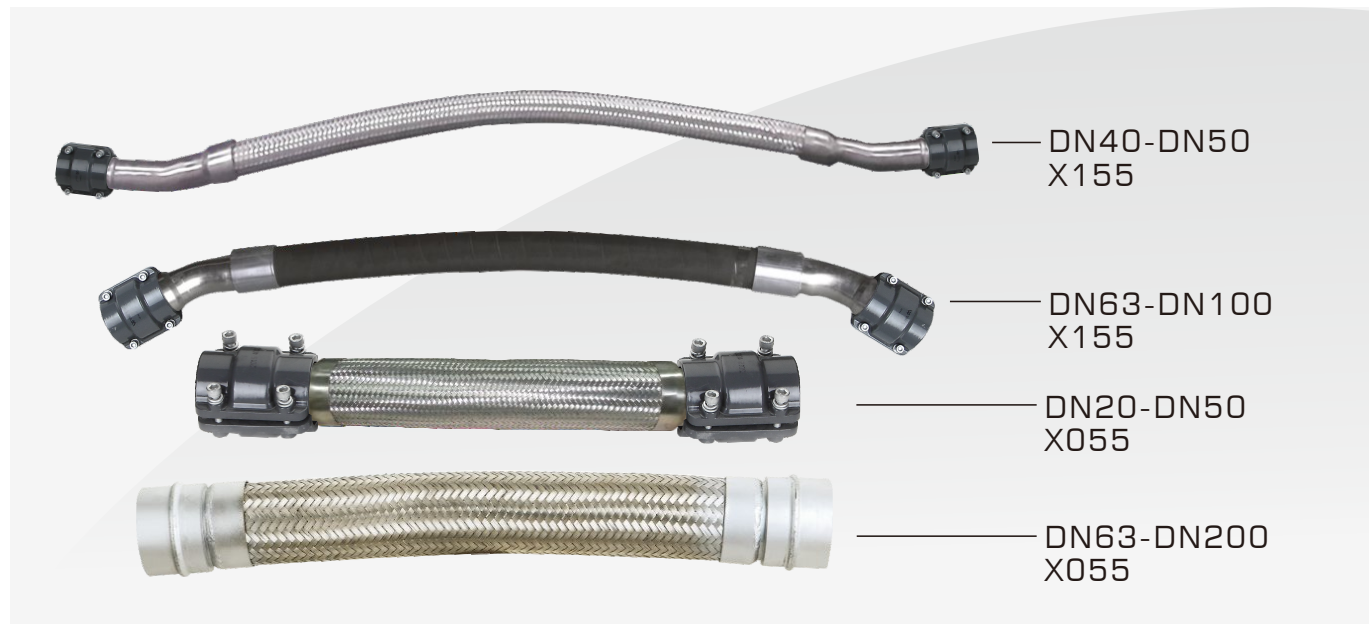
***Viton gaskets are available for high-temperature applications.**

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

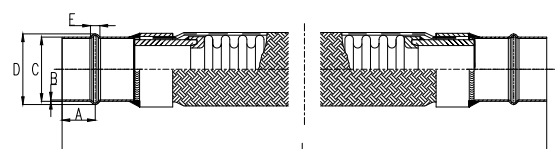
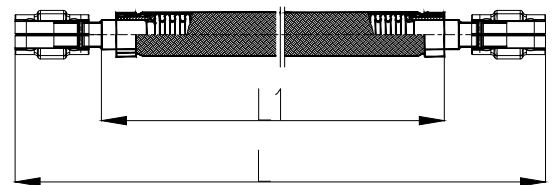
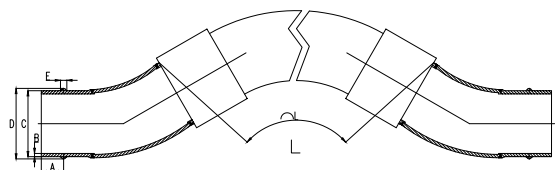
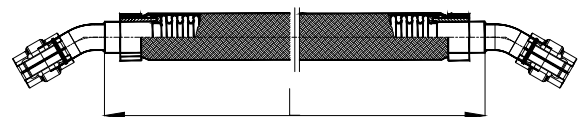


AIRpipe	Nominal Diameter	L	Remark
4155	40	1000	SS304 material, 30°
5155	50	1100	

AIRpipe	Nominal Diameter	L	A	C	D	Remark
6155	63	1200	35	68	75	Rubber material, 30°
7155	80	1700	35	85	92	
8155	100	1700	35	102	109	

AIRpipe	Nominal Diameter	L	L1	Remark
1055	20	500	638	SS304 material Straight connection
2055	25	500	638	
4055	40	500	686	
5055	50	500	690	

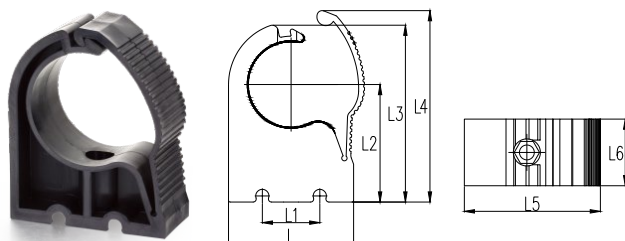
AIRpipe	Nominal Diameter	L	A	C	Remark
6055	63	500	35	67	SS304 material Straight connection
7055	80	500	35	85	
8055	100	500	35	102	
9055	150	900	35	152	
A055	200	1400	35	204	



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

Fixture Clip

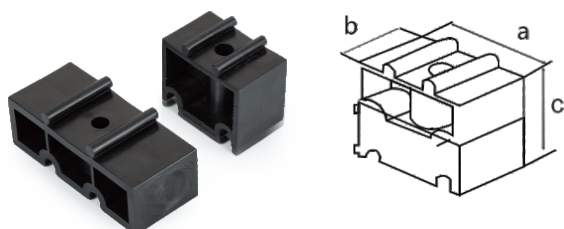


- Non-flammable
- Designed to work best with AIRpipe.

AIRpipe	D	L	L3	L4	L5	L6
1022	20	31	49	53	35	30
2022	25	38	53	58	42	30
4022	40	59	98	105	65	39
5022	50	74	104	113	81	39
6022	67	93	114	126	102	39
7022	84	118	156	169	126	49
8022	100	118	156	169	127	49

* 3/8"-16 threaded rod port.

Clip Spacer



AIRpipe	Compatible sizes	a	b	c
0027	20~25	34	49	35
0127	40~63	34	94	30

* Spacer clip 0027 is used to create a level plane for DN20 or DN25 diameters transitioning to DN40, DN50, or DN63.

* Spacer clip 0127 is used to create a level plane for DN40, DN50, or DN63 diameters transitioning to DN80 or DN100.

Unistrut Nut / Drill Jig



AIRpipe	Applicable Diameter
0227	3/8" - 16 threaded Rod Port

AIRpipe	Description
JIG KIT	Chuckat Drop Drilling Jig Kit
JIG25	DN25 OD Pipe Drilling Jig
JIG40	Dn40 OD Pipe Drilling Jig
JIG50	DN50 OD Pipe Drilling Jig

Fixture Clip [Steel]

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



* 3/8"-16 threaded rod port.

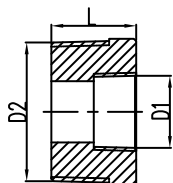
Union Seal(FKM/VITON)

AIRpipe	Diameter
1002V	20
2002V	25
4002V	40
5002V	50
6002V	63
7002V	80
8002V	100
9002V	150
A002V	200
S3B00S	250



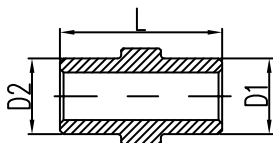
* Temperature range: -4°F to 392°F

Male x Female NPT Adapters



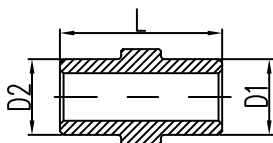
AIRpipe(NPT)	D1	D2	L	Material
4950	1"	1 1/2"	31	Aluminum
5050	1"	2"	36	Aluminum
5450	1 1/2"	2"	36	Aluminum
6250	1"	2 1/2"	39	Aluminum
6550	2"	2 1/2"	39	Aluminum
7250	1"	3"	44	Aluminum
7450	1 1/2"	3"	44	Aluminum
7550	2"	3"	44	Aluminum
7650	2 1/2"	3"	44	Aluminum
8250	1/2"	3/4"	28	Aluminum
8350	1/2"	1/4"	38	Aluminum
8550	1/2"	1"	31	Aluminum
8750	3/8"	1/2"	35	Aluminum

Male x Male NPT Adapters



AIRpipe(NPT)	D1	D2	L	Material
8150	1"	3/4"	49	Aluminum
8450	1/2"	1/4"	42	Aluminum
8650	3/4"	1/2"	46	Aluminum

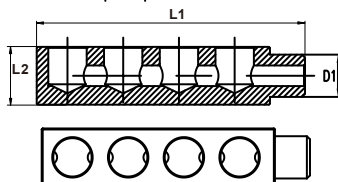
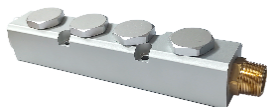
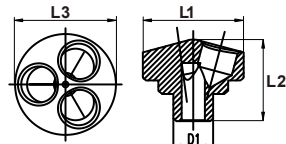
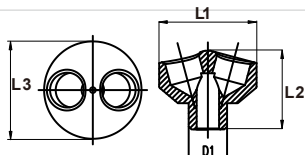
Pipe Nipples



AIRpipe(NPT)	D1	D2	L	Material
0031	1/2"	1/2"	45	Aluminum
1131	3/4"	3/4"	47	Aluminum
2231	1"	1"	54	Aluminum
4431	1 1/2"	1 1/2"	57	Aluminum
5531	2"	2"	64	Aluminum

* Note: Used for the connection between two filters.

Manifolds



AIRpipe (NPT)	Inlet D1	Outlet	Connection Port
0283	Male 1/2"	Female 1/2"	Two-port manifold
0383	Male 1/2"	Female 1/2"	Three-port manifold
0783	Male 1/2"	Female 1/2"	Four-port manifold

* Couplers are available through AIRpipe.

AIRpipe(NPT)	L1	L2	L3
0283	52	42	52
0383	52	42	52
0783	130	28	/

Universal Quick Couplers



* Automotive Nipple. * Industrial Nipple.

<i>AIRpipe</i>	Applicable Diameter
1484	1/4" Universal Quick Coupler (ISO 6150B/ Automotive), 1/2" Male NPT
3884	3/8" Universal Quick Coupler (ISO 6150B/ Automotive), 1/2" Male NPT
4284	1/4" Male NPT Automotive Nipple
8284	3/8" Male NPT Automotive Nipple
4184	1/4" Male NPT Industrial (ISO B) Nipple
8184	3/8" Male NPT Industrial (ISO B) Nipple

Demo Case



<i>AIRpipe</i>	H	L	I
0146	200	270	190

AIRpipe Hanging Accessories

Threaded Rod



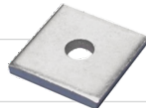
<i>AIRpipe</i>	Part Description	Material
APH007	(3/8-16) length 12Ft.	Electro-Galvanized Steel

Unistrut Channel Nut



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

Square Channel Washer



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

Jam Nut



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

Threaded Rod Beam Clamp



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

Channel Strut



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

U-Bolt Beam Clamp



<i>AIRpipe</i>	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 for DN20 to DN50, along with hex and hole saw bits for all diameters and quick drop fittings.

* For DN63 to DN100 installations you will need part numbers 0140 and 0844. These are not included in this kit.

* For DN150 to DN200 installations you will need part numbers 0344 and 0844. These are not included in this kit.

* For DN250 installations you will need part number S10544. This grooving tool is not included in this kit.

AIRpipe	Component Description
0141	DN20 to DN50 Pipe Deburrer
0042	DN20 to DN200 Hole Deburrer
0643	Drill Arbor & Pilot Bits for 38mm 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 14mm, 19mm and 25mm Hole Saw Bits
0743	16mm Hole Saw Bit
0843	22mm Hole Saw Bit
0040	DN20 to DN63 Pipe Cutter
PM	Permanent Marker
0044	Pipe Insertion Depth Gauge
5mm	5mm Allen Bit (50mm in length) for Drill
6mm	6mm Allen Bit (50mm in length) for Drill
8mm	8mm Allen Bit (50mm in length) for Drill
0046	Logoed Canvas Bag

* Items are available for individual purchase.

① Electric Pipe Cutter



Aluminum Pipe Cutter



Saw Blades



Aluminum Pipe Deburrer



AIRpipe	Applicable Diameter
0344	DN63 to DN200
0345	DN250

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) DN250 (SCH 10) SS blade for PN 0345

AIRpipe	L	H	Applicable Diameter
0040	220	40	DN20 to DN63
0140	240	40	DN to DN40100

AIRpipe	L	H	Applicable Diameter
0141	90	70	DN20 to DN50

Hole Deburrer



AIRpipe	L	Applicable Diameter
0042	160	DN20 to DN250

Hole Saw Bit



Drill Arbor & Pilot Bit



AIRpipe	L	Applicable Drill	Applicable Diameter
0243	110	14-30	DN25 to DN100
0643	110	30-150	DN150 to DN200

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

Lugging Machine



AIRpipe	Pipe OD	Remark
0844	DN63 to DN200	Contains every jaw set
S10544	DN63 to DN250	Stainless steel

Lugging Jaw Kit



AIRpipe	Remark
1844	AIRpipe lug jaws kit DN63 to DN200

* Jaws can be ordered separately.

Pipe Insertion Depth Gauge



AIRpipe	DN	Insertion depth
0044	DN20	29
	DN25	29
	DN40	39
	DN50	39

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 exposed 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

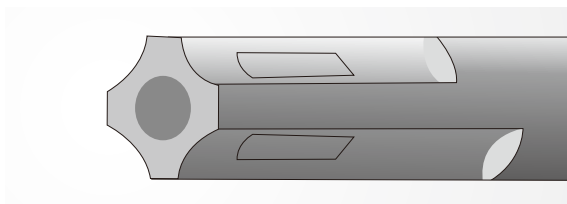
- AIRpipe pipe should be protected from mechanical impact, particularly if exposed to collision with fork-lift trucks or when sited in an environment with moving overhead loads. Similarly, rotation of the pipe and pipe supports should be avoided. AIRpipe pipe must not be welded. Flexible AIRpipe hoses 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.

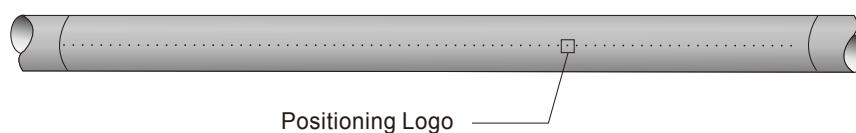
Measuring Pipe Insertion Depth

- When installing pipe diameters $\frac{3}{4}$ " to 2", use the insertion depth gauge (part number 0044) to place an insertion depth mark on the pipe.



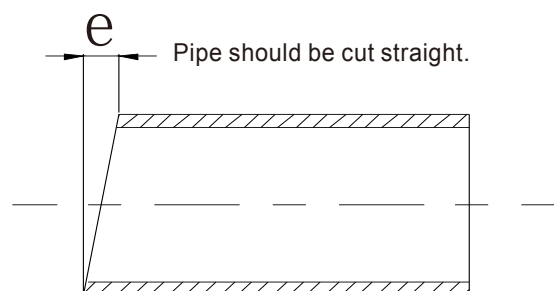
Drilling indicator

- 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 $\frac{3}{4}$ " to 2 $\frac{1}{2}$ ".
Use part number 0140 for pipe diameters 1 $\frac{1}{2}$ " to 4".

Nominal Diameter	Cutting slope of pipe and allowable deviation (e)
$\frac{3}{4}$ " to 3"	1.0
4" to 6"	1.4
8" to 10"	2.0

Superior Reliability!

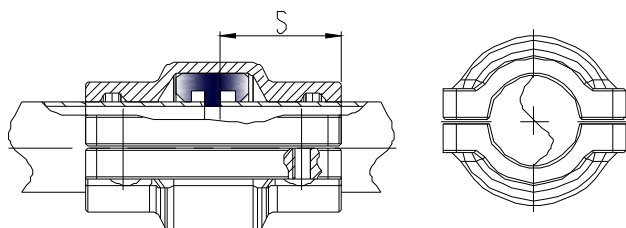
Quick and Easy Installation



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

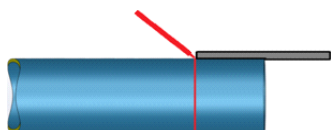


DN	Insertion depth S (IN)
¾"	1.14"
1"	1.14"
1 ½"	1.53"
2"	1.53"
2 ½"	2.125"
3"	2.125"
4"	2.44"
6"	2.665"
8"	2.54"
10"	2.13"

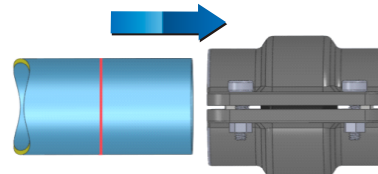
- "S" denotes the insertion depth of the pipe into the connector.

Installation Guide for ¾" to 2"

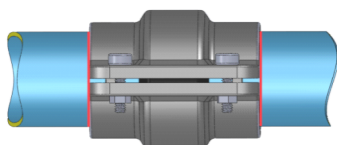
- 01** Mark the pipe with a marker pen as shown below.



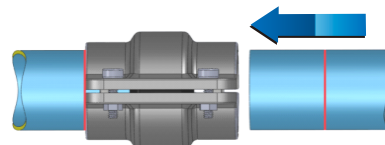
- 02** Insert the marked pipe into the connector.



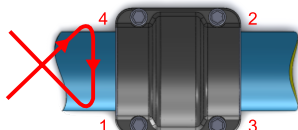
- 04** A portion of the marked lines should remain visible after the pipe is inserted into the connector.



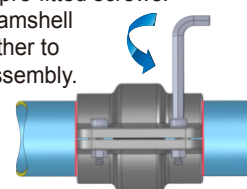
- 03** Bring the second pipe to the connector and slide up to the marked insertion depth.



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

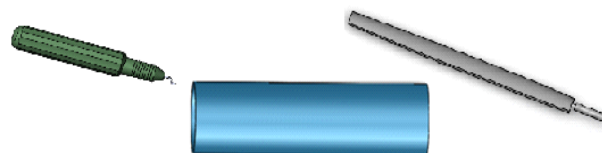
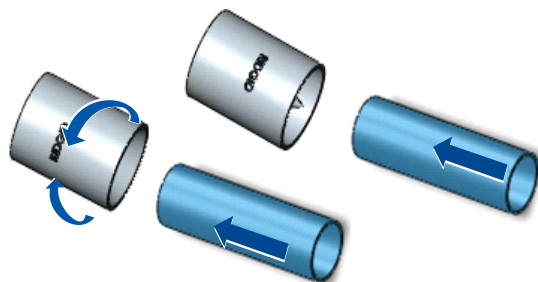


- 06** Tighten the pre-fitted screws. Flush the clamshell halves together to complete assembly.



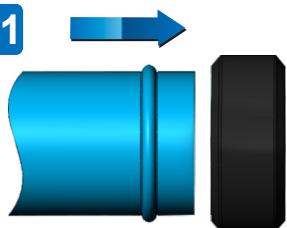
Deburr The Outer and Inner Edges Before Installation

- Use 0141 for ¾" to 2" to deburr the outer edges and also deburr the inner end.
- Use a file for 2 ½" to 8" to chamfer the outer edges; Make sure of a deburring tool to deburr the inside of the pipe end.



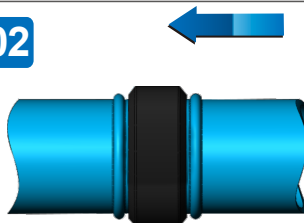
Installation Guide for 2 ½" to 10"

01



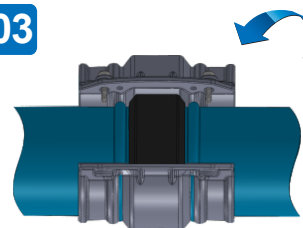
Slide the seal over the edge of the pipe so that it sits flush with the lugged edge.

02



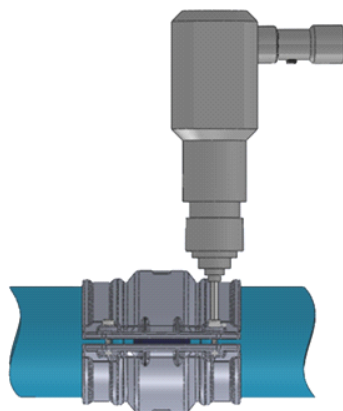
Insert the second pipe into the seal until the seal and the lugged edge are flush.

03



Position the clamshell over the seal.

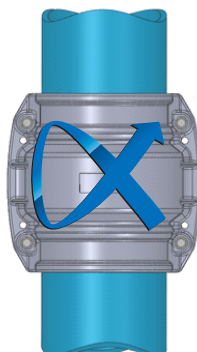
06



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

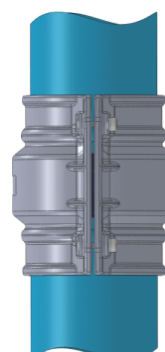
***The clamshell halves must be flushed completely together.**

05



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

04



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

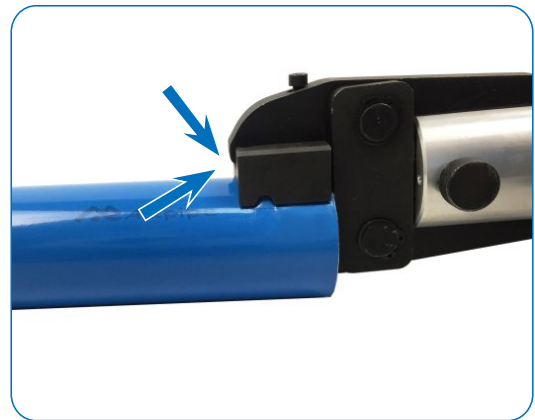
Hand-held hydraulic lugging machine operation requirements

01



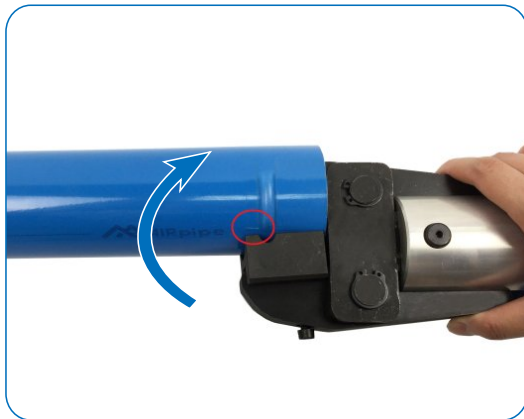
- Open the jaw and insert the pipe completely.
*Confirm you are using the correct jaw dies.

02



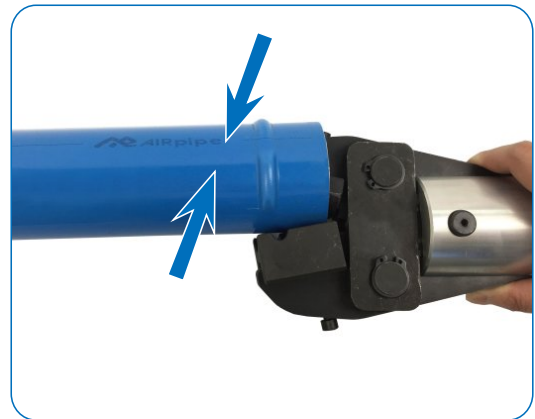
- Press the trigger on the lugging tool to run the lugging cycle. A "snap" sound is made when the applied lug is completed. crimp the pipe until a "snap" sound is heard.

03



- Rotate the jaw to apply the next lug. The circle shows the alignment mark made by the jaw from the previous operation. Align the edge of the jaw to this mark to ensure all lugs 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.

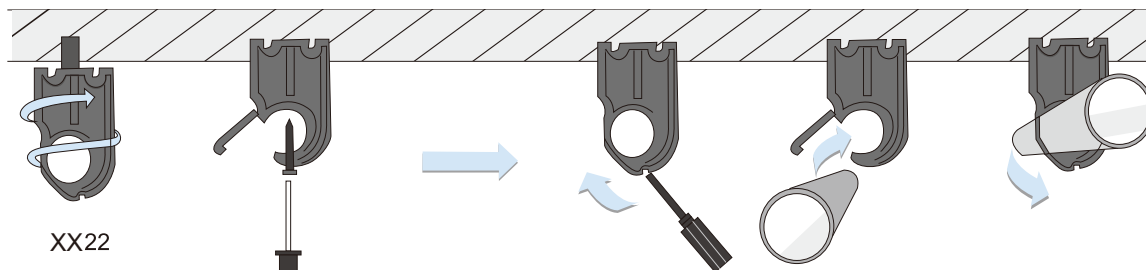
Hand-held hydraulic lugging machine operation requirements

AIRPIPE	2 1/2"	3"	4"	6"	8"	10"
Number Of Lugs	5	6	6	9	12	N/A

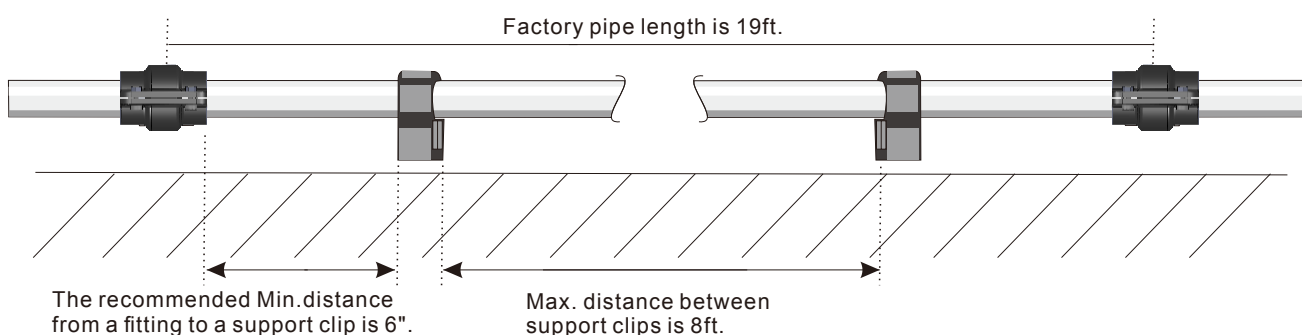
* Note: Do not overlap the lugs!

* Note: 10" installations require the use of the S10544 grooving tool. There are no lugging jaws available for 10".

Pipe Clip



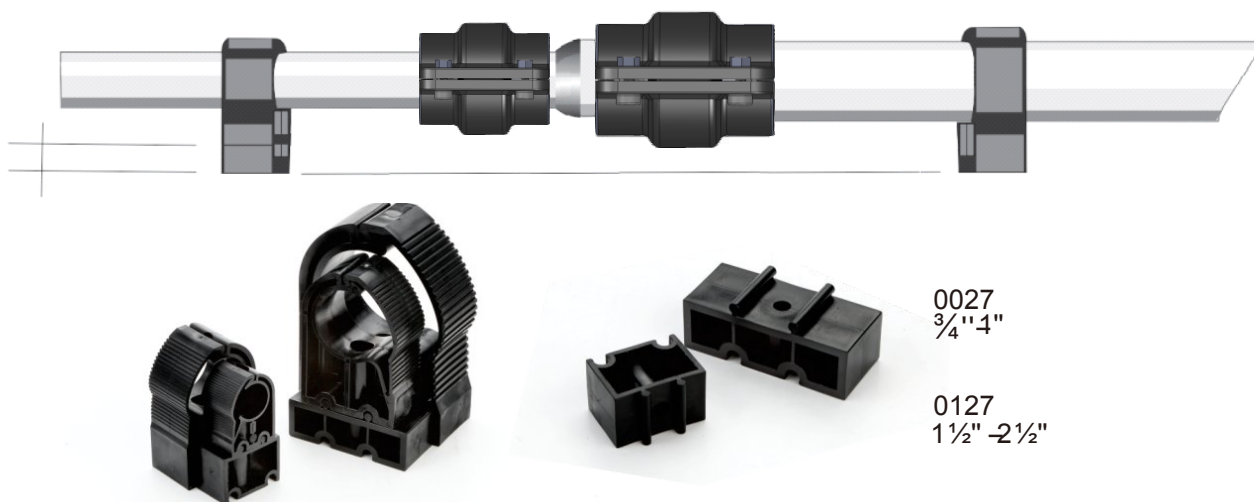
AIRpipe's pipe clips are designed for versatility. They can be secured via all-thread rod through the clips internal $\frac{3}{8}$ "-16 nut, or mounted directly with wall anchors.



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 proper stability 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 near each 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 $\frac{3}{4}$ " or 1" diameters transitioning to 1 $\frac{1}{2}$ " 2" 2 $\frac{1}{2}$ " .

Spacer clip 0127 is used to create a level plane for 1 $\frac{1}{2}$ " 2" 2 $\frac{1}{2}$ " diameters transitioning to 4" or .

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 28.

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.

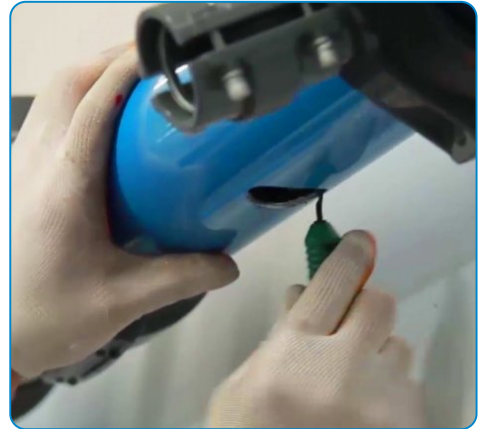
***Never perform work on a pressurized system.**

05



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

06



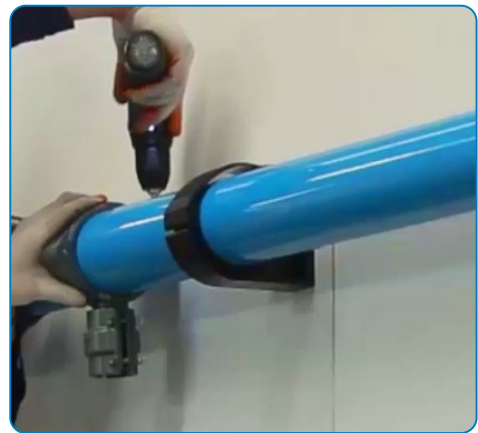
- Remove debris and deburr cut edges.

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:

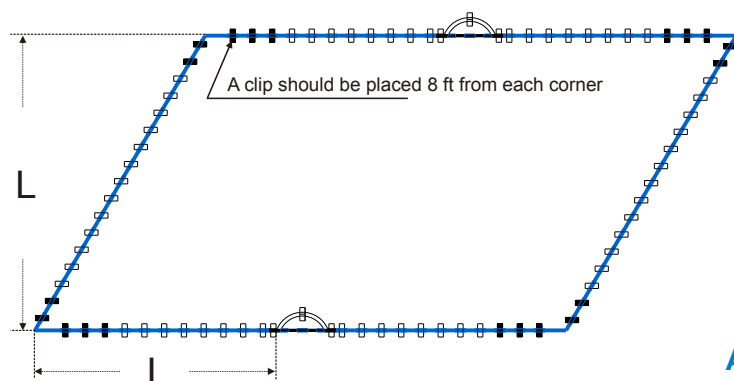
- Leakage and system deformation, that in extreme situations, could result in a connection separation.
 - Pipe system movement could create an obstruction.
 - Quick drop connections could become compromised.
1. In order to compensate for the effects of expansion and contraction due to temperature variations, system lengths should be appropriately evaluated 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 downward 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

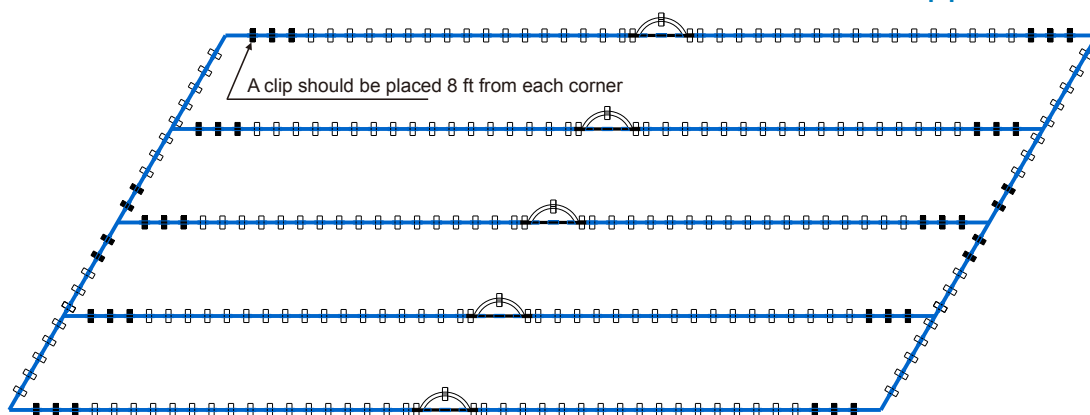
A1) Single loop pipeline for 1½" - 4"

* Use 30° flexible hose in the middle of pipeline



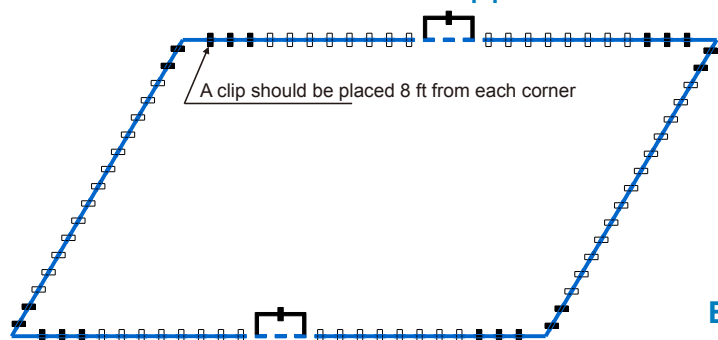
A2) Multiloop pipeline for 1½" - 4"

* Use 30° flexible hose in the middle of pipeline



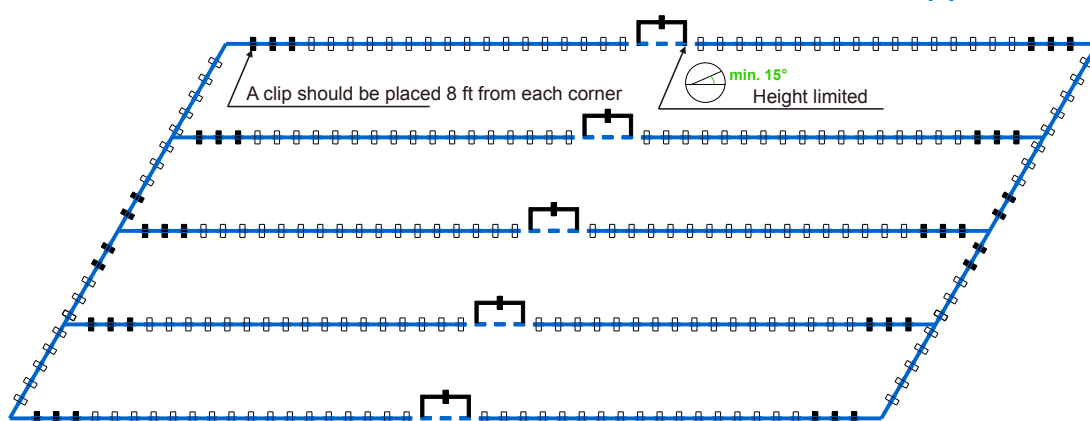
B1) Single loop pipeline for 6" - 10"

* 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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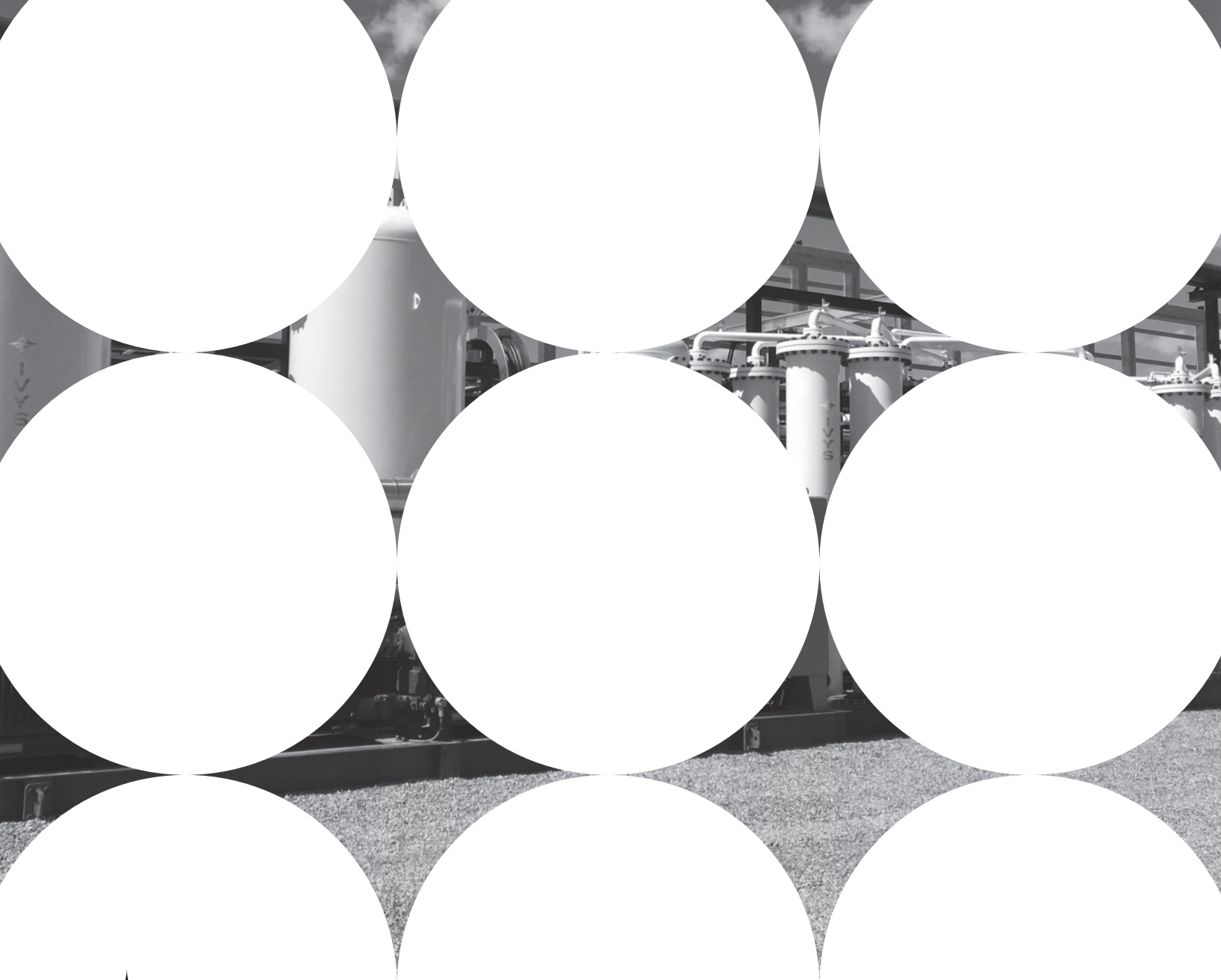
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