



**Quickair**<sup>TM</sup>  
Metal  
Modular Aluminium Piping system  
PROFESSIONAL AFFORDABLE CONNECTIONS

# MODULAR ALUMINIUM PIPING SYSTEM

For Industrial Gases  
Liquids  
Vacuum and Inert Gases

Size Range : 20mm to 200mm  
Materials : Aluminium alloy  
Connections : Push fit  
Temperature Range : Up to 200°C  
Pressure Range : Up to 20 bar

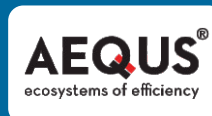


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## OUR FEW ESTEEMED CUSTOMERS



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## OUR FEW ESTEEMED CUSTOMERS



With a wealth of experience and the broadest range of solutions and the systems on the market, Canares **Quickair™** products mean you'll complete your installation as seamlessly, efficiently and effectively as possible.

**TOTAL FUNCTIONALITY, COMPLETE EFFICIENCY**

**Quickair™** range of Products innovatively designed systems that reduce installation time and cost without compromising quality, aesthetics or reliability.

Our **Quickair™** product ranges are designed to perform faultlessly in a variety of applications and environments-so you can always be sure to connect with confidence whatever your challenge.

**GLOBAL EXPERIENCE, COMBINED EXPERTISE**

With over decade years of manufacturing and innovation combined with extensive industry knowledge and worldwide market experience, Canares offers the most advanced and complete modular Aluminium pipe system on a global scale.

As one India's largest and the most respected manufactures and suppliers of products for the plumbing, heating industries and gas piping.

Canares group is confident we can provide you with all the connection, control and support your project needs.

It is Canares policy to provide a range of products and services which meets or exceeds the requirements of our customers in respect of quality, cost and delivery.

## **GUARANTEES**

Our policy of continuously and rigorously testing Quickair<sup>TM</sup> fittings means we are confident they will give you years of trouble free service. To demonstrate the total confidence we have in our products and our commitment to customer service, all Quickair<sup>TM</sup> fittings are guaranteed against manufacturing defects for 10 years when installed in accordance with our instructions on specified tube materials and applications.

### **The Quickair<sup>TM</sup> Range Meets The Following Standards Quickair<sup>TM</sup> Fittings**

All Quickair<sup>TM</sup> general range fittings comply with the requirements.

ASME B31.1 Part1 specification for the Aluminium fittings and Aluminium pipes. Specification for tubes and fittings where pressure tight joints are not made on the threads (Metric Dimension).

## **QUALITY**

Quality is of paramount importance to Canares group. Our products confirm to current Indian and Europe standards where applicable and also meet our own rigorous internal quality approvals. Canares group operates a quality management System for the development, manufacture and supply of fittings, tube, valves and accessories which complies with the requirements of ISO 9001:2015.

## **MARKINGS**

### **UNIVERSAL MARKING**

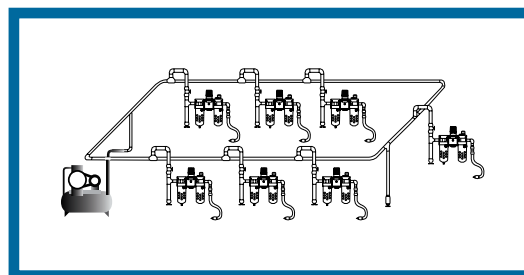
All Quickair<sup>TM</sup> fittings carry the marking of manufacturing batch

Where pipelines are constructed exclusively using Quickair<sup>TM</sup> fittings and recommended tubes, the resulting Installation will be deemed Quickair<sup>TM</sup> Systems and such qualify for a 10 year guarantee against all manufacturing Defects.



## Proper line sizing for an airline network

1. Identify type of network: closed loop or dead-end
2. Calculate total length of line (feet)
3. Determine total flow required



### TOTAL LENGTH OF NETWORK

Flow Rate			Length									
			164 ft	328 ft	429 ft	984 ft	1640 ft	2460 ft	3280 ft	4265 ft	5249 ft	6561 ft
Nm <sup>3</sup> /Hr	NI/min	cfm	50 m	100 m	150 m	300 m	500 m	750 m	1000 m	1300 m	1600 m	2000 m
10	167	6	16	16	16	20	20	20	20	25	25	25
30	500	18	16	20	20	25	25	25	25	25	25	32
50	833	29	20	25	25	25	25	25	25	32	32	32
70	1167	49	20	25	25	25	32	32	40	40	40	50
100	1667	59	25	25	32	32	32	40	40	50	50	63
150	2500	88	32	32	32	32	40	50	50	63	63	80
250	4167	147	32	32	40	40	50	50	63	63	80	80
350	5883	206	32	40	40	50	50	63	63	63	80	80
500	8333	294	40	50	50	50	50	63	63	80	80	80
750	12500	441	50	50	50	50	50	63	80	80	80	80
1000	16667	589	50	50	50	50	63	80	80	80	80	80
1500	25000	883	50	50	63	63	63	80	80	80	80	80
2000	29167	1030	50	50	63	63	80	80	80	80	80	80
3000	50000	1766	50	63	63	80	80	100	100	150	150	150
3500	58332	2060	80	80	100	100	150	150	150	150	150	150
4000	66657	2354	80	100	100	100	150	150	150	150	150	150
4500	74983	2648	80	100	100	150	150	150	150	150	150	150
5000	83308	2942	80	100	100	150	150	150	150	150	150	150
5500	91661	3237	100	100	100	150	150	150	150	150	150	150
6000	99986	3531	100	100	150	150	150	150	150	150	150	150
6500	108311	3825	150	150	150	150	150	150	150	150	150	200
7000	119978	4237	150	150	200	150	150	150	150	200	200	200
8000	133315	4708	200	200	200	200	200	200	200	200	200	200

TOTAL FLOW REQUIRED

- Calculations based on total maximum pressure drop ( $\Delta P$ ) of not more than 3 PSIG for entire network, at 100 PSIG @ 15.6 °C
- Total flow required takes account of all flows for all compressed air powered tools and equipment
- Note that a typical compressor will produce approximately 4 SCFM per HP



## WARNING

Installation of Quickair<sup>TM</sup> compressed air distribution system must be made according to the assembly instructions as indicated in the installation guide (available on request or on the website)



## QUICKAIR™ FLOW CHART

The **Quickair™** flow calculator helps you to choose the most suitable diameter for your installation. Enter the flow of your compressor, the system pressure rating and the total equivalent length of the system and add the components like valves, elbow, tee and reducers.





### Example:

Flow rate: 850 cfm at 109 psi

Total area 1788 feet

The recommended **Quickair™** diameter is 80mm size

(pressure drop of 145 psi = less than 5%)

PRESSURE DROP COMPONENTS		PRESSURE DROP ON STRAIGHT LINE	
	No of Ball Valve <input type="text"/>	Pressure Drop	
	No of Elbows <input type="text"/>	Pipe Length. L <input type="text"/> mtrs	
	No of Equal tee <input type="text"/>	Pipe Dia. D <input type="text"/> mm	
	No of Reducers <input type="text"/>	Free Air Flow Rate <input type="text"/> *cfm	
	TOTAL = <input type="text"/>	Pipeline Pressure <input type="text"/> bar	
<input type="button" value="CALCULATE"/> <input type="button" value="CLEAR"/>		<input type="button" value="CALCULATE"/> <input type="button" value="CLEAR"/>	
TOTAL PRESSURE DROP <input type="text"/>		GRAND TOTAL <input type="text"/>	

## COST OF POWER CALCULATION

Cost of Power Calculation			
BHP <input type="text"/>	Electrical Rate <input type="text"/>	Rs/Yr. <input type="text"/>	<input type="button" value="CALCULATE"/>
No of Hr/Yr <input type="text"/>	Motor Efficiency <input type="text"/>	% <input type="text"/>	<input type="button" value="CLEAR"/>

From above you can calculate cost of power for producing the compressed air.  
Visit: [www.canares.com](http://www.canares.com) for live calculation.

## QUICKAIR™ PIPELINE SYSTEMS

The **Quickair™** pipe line system has been designed and built for installation of compressed air and inert gas distribution system. The materials and types of fittings used offer a flexible system that can be integrated with all **Quickair™** Systems and solve all the problems and meet all the requirements of even the most complex systems. Innovative technology at the heart of **Quickair™** enables rapid and easy assembly, quick connection of components to the Aluminium pipes.

## QUICKAIR™ IS PROFITABLE AND EFFICIENT ALTERNATIVE

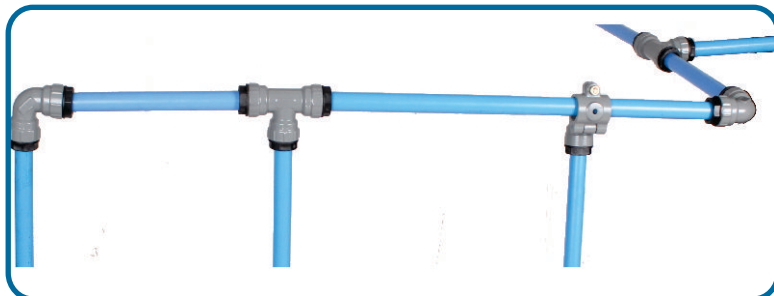
**Quickair™** offers a cost effective, innovative and energy efficient aluminium compressed air piping system that is very easy to assemble, Change and expand. Furthermore, labour accounts for only 20% of the cost of installing **Quickair™**. By comparison, labour accounts for 60%-80% of steel system and 50%-70% of a copper system.

## Quickair™ OFFERS

- Lower installation cost
- Push-Fit concept
- No corrosion
- Powder Coated
- 20mm-200mm dia pipe sizes
- Modular design
- Re-usable fittings
- Easy to install

## Quickair™ PIPING PRECAUTIONS AND TESTING

Care should be taken to protect pipes against mechanical shocks especially when close to the passage of fork-lift trucks where suspended objects are being moved. Quickair™ pipes must not be bent or welded.



## Quickair™ RANGE

Traditional compressed air piping materials with their advantages and disadvantages.

Materials	Advantages	Disadvantages
Black Iron (Mild steel)	Moderate material costs Readily available in multiple sizes	Labor intensive installation, May rust and leak rough inside promotes contaminant build up and creates pressure drop
Galvanized Iron	Moderate materials costs Readily available in Some multiple sizes rust protection.	Often only exterior is coated. Labor intensive installation, Rough inside promotes contaminant build up and creates pressure drop, May rust at build up and creates pressure drop, May rust at joints and leak
Copper	No rust, good air quality smooth interior-low pressure drop	Requires quality brazing to prevent leaks, Susceptible to thermal cycling installation involves open flame
Stainless Steel	No rust, good air quality Smooth interior-low pressure drop	labor intensive installation, Expensive materials

## TESTING

After installing the Quickair™ system, the system should be tested for 1.5 times of the working pressure for the period of 8 hours and once line is gradually pressurized all the joints should be tested for any leakage by applying the soap water or laser tester. If any leakage found to be rectified after 8 hours pressure leakages drop should be observed and ensured that within the permissible limit.

The Quickair™ pipe line includes all the accessories you need for a top quality installation:

- Straight unions
- Elbows and tees
- Equal cross
- Reducing fittings
- Integrated loop drop
- Ball valves
- Quick assembly brackets and hangers
- Pipe clips
- Expansion and flex hoses
- FRL
- QRC

## WHERE AS Quickair™ OFFERS FEATURES INCLUDES

Installs faster than other common piping  
No specialized techniques needed  
No threading, welding, or brazing pipe  
No special tools are needed  
Can connect to existing systems with other pipe types  
Easy to add on to or disassemble for your changing needs

## OPTIMUM FLOW, HIGHEST AIR QUALITY AND LOW MAINTENANCE

Quickair™ smooth calibrated aluminium construction has a low friction coefficient, providing the best possible laminar flow. Full bore fittings further minimize pressure drop for optimum flow and energy efficiency. Leak free connectors prevent air loss and wasted energy. Quickair™ is ideal for installations requiring the highest quality air. Aluminium material will not rust or corrode. Further, it has no rough surfaces or interior restrictions that accumulate contaminants. The smooth interior with full bore design allows them to flow to your dryers and filters for efficient removal.

## TECHNICAL SPECIFICATION

### WIDE SCOPE OF SUPPLY

Quickair™ has a complete scope of supply including piping in ten standard sizes to accommodate nearly any flow requirement, all the way down to the point of use.

#### Size:

20mm, 25mm, 32mm, 40mm, 50mm, 63mm, 3", 4", 6", 8"

#### ADVANTAGES OF Quickair™ FITTINGS

Quick connections  
Full bore design  
Interchangeable and reusable  
Non-flammable materials (UL94HB Certified)

### TECHNICAL SPECIFICATION

#### Quickair™ Piping System

Application	Compressed air, vacuum, nitrogen, Argon (other fluids & gases please contact Us)
Pressure	Max 20 bar
Vacuum	29.32" hg
Temperature	-20° C to 200 C°
Design Standard	ASME B 31.1

#### Materials of Construction of Aluminium pipe

Alloy	Aluminium Alloy 6060 T5
Tolerance	Tolerance Std. IS2763, IS3965, EN-755-2
Color	Blue coated (RAL 5012)
Surface finish	60 microns

### FITTINGS

Quickair™ Fittings provides versatility of design and helps to overcome constraints often encountered with structure of industrial buildings

#### Quick Connections

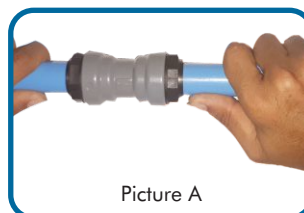
Full bore design  
Interchangeable and reusable  
Non-flammable materials (UL94HB)  
Maximum working pressure: 20 bar  
Vacuum: 29.32" hg  
Normal working temperature: -20° C to 80° C  
(option upto 200° c)

#### Application:

Compressed air, nitrogen, Vacuum, CO<sub>2</sub> for any other application Please contact.

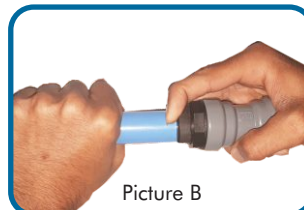
**Note: All products are 100% Tested**

### Simply push-fit Concept



Picture A

Quickair™ metal fitting is similar to one touch pneumatic push fitting concept. The advantage of this "Push-Fit" concept over other is modular piping systems. As there is nothing to tighten but only "simply push" the tube inside the fitting as shown in Picture A (up to 63mm)

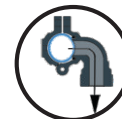


Picture B

While removing the tube from the fitting just need to push "removing clip" on the tube and press towards the fitting removing clip will disengage the grab-ring and will release the tube from the fitting. Picture B



Integral condensate retention design for superior flow without pressure drops.



### Chemical Composition of Aluminium Tubes

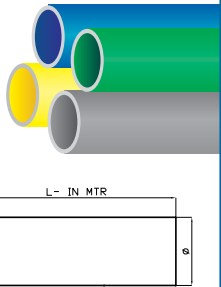
Alloy	6060
Al	Rest
Mg	0.35~0.6
Si	0.35~0.6
Fe	0.3
Mn	0.1
Zn	0.1
Cu	0.1
Impure	0.05~0.15

### Material of Construction of Fittings

Size	20- 63mm
Body	Aluminium
Caps	Engineering Plastic
Oring	HNBR/EPDM (for other option please consult)

Size	3 - 8 inches
Body	Aluminium
Oring	HNBR/EPDM (for other option please consult)

## AP 24



## ALUMINIUM PIPE

PART NO.	D1	Meter
AP242000	20	6
AP242500	25	6
AP243200	32	6
AP244000	40	6
AP245000	50	6
AP246300	63	6

**Design Standard : ASME B 31.1**

**Standard Colour :**

1) Blue, 2) yellow, 3) Grey, 4) Green.  
Other colours are optional.

## PIPE TO PIPE CONNECTOR

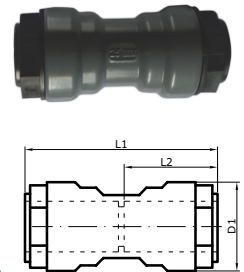
PART NO.	D1	L1	L2
PP242000	36	88	43
PP242500	42	94	45
PP243200	55	104	51
PP244000	69	136	66
PP245000	80	147	72
PP246300	95	152	75

**Design Standard : ASME B 31.1**

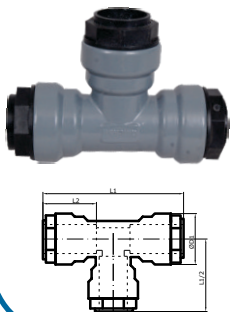
**Standard Colour :**

20 - 63mm Powder Coated Aluminium

## PP 24



## ET 24



## EQUAL TEE

PART NO.	D1	L1	L2
ET242000	36	110	43
ET242500	42	118	45
ET243200	55	140	51
ET244000	69	178	66
ET245000	80	198	72
ET246300	95	216	75

**Design Standard : ASME B 31.1**

**Standard Colour :**

20 - 63mm Powder Coated Aluminium

## ELBOW

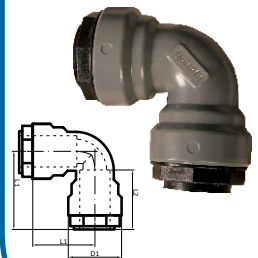
PART NO.	D1	L1	L2
EL242000	36	110	43
EL242500	42	118	45
EL243200	55	140	51
EL244000	69	89	66
EL245000	80	99	72
EL246300	95	109	75

**Design Standard : ASME B 31.1**

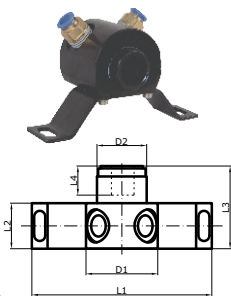
**Standard Colour :**

20 - 63mm Powder Coated Aluminium

## EL 24



## WB 24

WALL BRACKET - 1/2"  
OUTLET - 2WAY

PART NO.	D1	D2	L1	L2	L3	L4
WB242005	68	36	140	40	79	43
WB242505	68	42	140	40	79	45

**Design Standard : ASME B 31.1**

**Standard Colour :**

20 - 63mm Powder Coated Aluminium

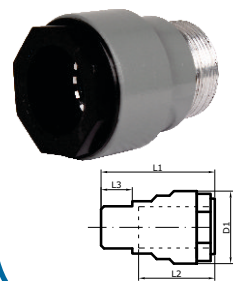
## MALE CONNECTOR

PART NO.	D1	L1	L2	L3	BSP
MC242005	36	62	43	14	1/2
MC242007	36	64	43	16	3/4
MC242505	42	62	45	14	1/2
MC242507	42	65	45	16	3/4
MC242510	42	65	45	16	1
MC243210	55	69	51	16	1
MC243212	55	70	51	16.5	1 1/4
MC244010	69	88	66	16	1
MC244015	69	88	66	18	1 1/2
MC245015	80	95	72	18	1 1/2
MC245020	80	95	72	18	2
MC246320	95	97	75	18	2
MC246325	95	98	75	19	2 1/2

**Design Standard : ASME B 31.1**

**Standard Colour : 20 - 63mm Powder Coated Aluminium**

## MC 24



## MD 24



## DROPLETS - Tube To Tube

PART NO.	D1	D2	L1
MD242520	25	20	43
MD243220	32	20	43
MD243225	32	25	45
MD244020	40	20	43
MD244025	40	25	45
MD245020	50	20	43
MD245025	50	25	45
MD246320	63	20	43
MD246325	63	25	45

**Design Standard : ASME B 31.1**

**Standard Colour :**

20 - 63mm Powder Coated Aluminium

## END CAP

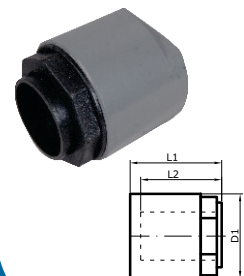
PART NO.	D1	L1	L2
EC242000	36	49	43
EC242500	42	49	45
EC243200	55	55	51
EC244000	69	73	66
EC245000	80	78	72
EC246300	95	81	75

**Design Standard : ASME B 31.1**

**Standard Colour :**

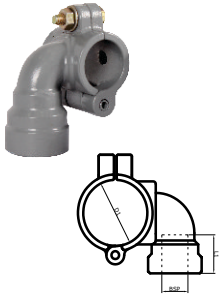
20 - 63mm Powder Coated Aluminium

## EC 24





**FD 24**



**Droplets- Female Thread**

PART NO.	D1	BSP	L1
FD242505	42	1/2	14
FD243205	55	1/2	14
FD244005	69	1/2	14
FD245005	80	1/2	14
FD246305	95	1/2	14

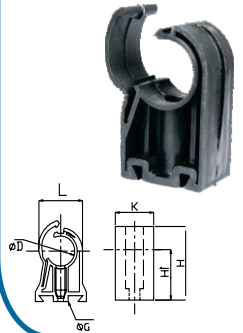
**Design Standard :** ASME B 31.1  
**Standard Colour :**  
25 - 63mm Powder Coated Aluminium

**CLIPS**

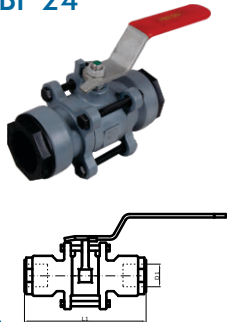
PART NO.	ØD	ØC	H1	H	K	L
CL11 2000	20	9	35	54	30	36
CL11 2500	25	9	35	58	30	42
CL11 3200	32	9	35	65	30	54
CL11 4000	40	9	69	105	40	66
CL11 5000	50	9	69	116	40	72
CL11 6300	63	9	69	128	40	105

**Design Standard :** ASME B 31.1  
**Standard Colour :**  
20-63mm Engineering Plastic.

**CL 11**



**BF 24**



**Ball Valve With Fittings**

PART NO.	D1	L1
BF24 2045	20	135
BF24 2554	25	168
BF24 3262	32	199
BF24 4074	40	202
BF24 5088	50	204
BF24 6307	63	224

**Design Standard :** ASME B 31.1  
**Standard Colour :**  
20 - 63mm Powder Coated Aluminium

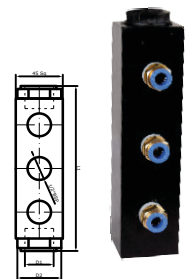
**Manifold**

PART NO.	D1	D2	BSP	L1
MF24 2005	20	36	1/2"	220
MF24 2505	25	42	1/2"	240

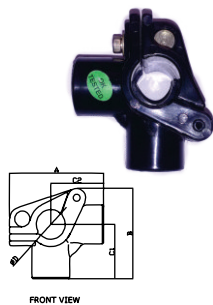
For 8mm Please Read As MF24 2008 2508.

**Design Standard :** ASME B 31.1  
**Standard Colour :**  
20 - 25mm Powder Coated Aluminium

**MF 24**



**TD 12**



**TWO WAY FEMALE DROPLET**

PART NO	SIZE	A	B	C	D
TD12 2505	1"x1/2"	82	77	45	50
TD12 3205	1 1/4"x1/2"	86	77	45	50
TD12 4005	1 1/2"x1/2"	94	88	50	50
TD12 5005	2"x1/2"	106	94	55	50
TD12 6305	2 1/2"x1/2"	122	112	65	50

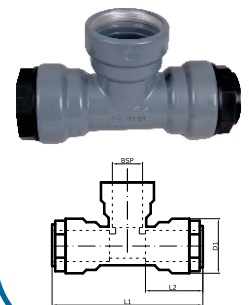
**Design Standard :** ASME B 31.1  
**Standard Colour :** Engineering Plastic

**FEMALE THREAD TEE**

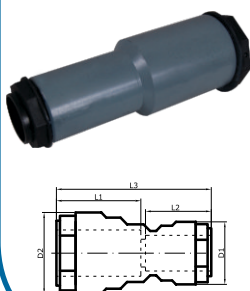
PART NO.	D1	L1	L2	BSP
FT242005	36	110	43	1/2
FT242505	42	118	45	1/2

**Design Standard :** ASME B 31.1  
**Standard Colour :**  
20-25mm Powder Coated Aluminium

**FT 24**



**RD 24**



**REDUCER**

PART NO.	SIZE	D1	D2	L1	L2	L3
RD242520	25X20	42	36	45	43	92
RD243220	32X20	55	36	51	43	98
RD243225	32X25	55	42	51	45	98
RD244020	40X20	69	36	66	43	114
RD244025	40X25	69	42	66	45	114
RD244032	40X32	69	55	66	51	120
RD245020	50X20	80	36	72	43	120
RD245025	50X25	80	42	72	45	120
RD245032	50X32	80	55	72	51	126
RD245040	50X40	80	69	72	66	142
RD246320	63X20	95	36	75	43	122
RD246325	63X25	95	42	75	45	122
RD246332	63X32	95	55	75	51	128
RD246340	63X40	95	69	75	66	144
RD246350	63X50	95	80	75	72	150

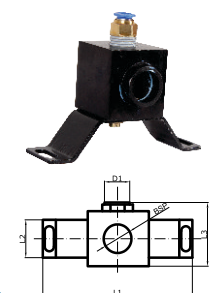
**Design Standard :** ASME B 31.1  
**Standard Colour :** 20-63mm Powder Coated Aluminium

**SINGLE WAY WALL BRACKET**

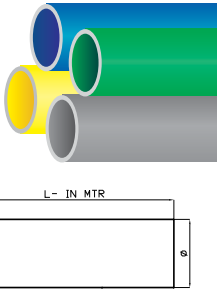
PART NAME	D1	L1	L2	L3
WB24012005	20	120	42	65
WB24012506	25	120	42	65

**Design Standard :** ASME B 31.1  
**Standard Colour :**  
20 - 25mm Powder Coated Aluminium

**WB 2401**



## AP 24



## ALUMINIUM PIPE

PART NO.	SIZE	Ø	L
AP24 3000	3"	88.9	6
AP24 4100	4"	114.3	6
AP24 6000	6"	168.3	6
AP24 8000	8"	219.1	6

**Design Standard :** ASME B 31.1

**Standard Colour :**

1) Blue, 2) yellow, 3) Grey, 4) Green.  
Other colours are optional.

## PIPE COUPLER

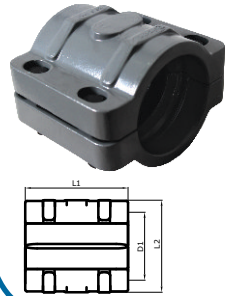
PART NO.	SIZE	D1	L1	L2
PC243000	3"	88.9	130	113
PC244100	4"	114.3	150	137
PC246000	6"	168.3	170	196
PC248000	8"	219.1	200	246

**Design Standard :** ASME B 31.1

**Standard Colour :**

3" - 8" Powder Coated Aluminium

## PC 24



## FLANGED END

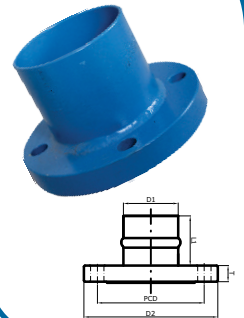
PART NO.	SIZE	D1	L1	T	PCD	Ø2
FE243000	3"	88.9	95	23.8	152.4	190.5
FE244100	4"	114.3	115	23.8	190.5	228.6
FE246000	6"	168.3	145	25.4	241.3	279.4
FE248000	8"	219.1	155	28.4	298.4	342.9

**Design Standard :** ASME B 31.1

**Standard Colour :**

3" - 8" Powder Coated Aluminium

## FE 24



## END CAP

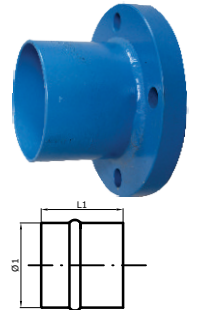
PART NO.	SIZE	D1	L1
EC243000	3"	88.9	100
EC244100	4"	114.3	110
EC246000	6"	168.3	130
EC248000	8"	219.1	150

**Design Standard :** ASME B 31.1

**Standard Colour :**

3" - 8" Powder Coated Aluminium

## EC 24



## EL 24



## ELBOW

PART NO.	SIZE	D1	L1
EL243000	3"	88.9	140
EL244100	4"	114.3	165
EL246000	6"	168.3	200
EL248000	8"	219.1	250

**Design Standard :** ASME B 31.1

**Standard Colour :**

3" - 8" Powder Coated Aluminium

## DROP

PART NO	SIZE	D1	A	B	C
FD243005	3" X 1/2"	88.9	133	155	1/2" BSP
FD243007	3" X 3/4"	88.9	133	155	3/4" BSP
MD243020	3" X 20MM	88.9	133	155	20MM
MD243025	3" X 25MM	88.9	133	155	25MM
FD244105	4" X 1/2"	114.3	160	182	1/2" BSP
FD244107	4" X 3/4"	114.3	160	182	3/4" BSP
MD244120	4" X 20MM	114.3	160	182	20MM
MD244125	4" X 25MM	114.3	160	182	25MM
FD246005	6" X 1/2"	168.3	200	240	1/2" BSP
FD246007	6" X 3/4"	168.3	200	240	3/4" BSP
MD246020	6" X 20MM	168.3	200	240	20MM
MD246025	6" X 25MM	168.3	200	240	25MM
FD248005	8" X 1/2"	219.1	270	300	1/2" BSP
FD248007	8" X 3/4"	219.1	270	300	3/4" BSP
MD248020	8" X 20MM	219.1	270	300	20MM
MD248025	8" X 25MM	219.1	270	300	25MM

**Design Standard :** ASME B 31.1

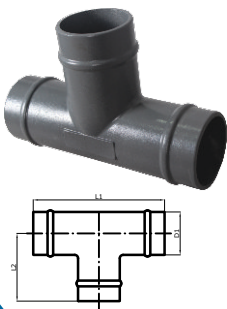
**Standard Colour :**

3" - 8" Powder Coated Aluminium

## MD 24



## ET 24



## EQUAL TEE

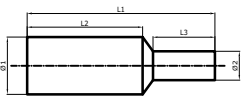
PART NO.	SIZE	D1	L1	L2
ET243000	3"	88.9	280	140
ET244100	4"	114.3	330	165
ET246000	6"	168.3	400	200
ET248000	8"	219.1	500	250

**Design Standard :** ASME B 31.1

**Standard Colour :**

3" - 8" Powder Coated Aluminium

## RD 24



## REDUCER

PART NO	SIZE	D1	Ø2	L1	L2	L3
RD243040	3" X 40	88.9	40	175	95	70
RD243050	3" X 50	88.9	50	190	95	85
RD243063	3" X 63	88.9	63	201	95	96
RD244140	4" X 40	114.3	40	195	115	70
RD244150	4" X 50	114.3	50	210	115	85
RD244163	4" X 63	114.3	63	215	115	90
RD244130	4" X 3"	114.3	88.9	220	115	95
RD246040	6" X 40	168.3	40	225	145	70
RD246050	6" X 50	168.3	50	240	145	85
RD246063	6" X 63	168.3	63	245	145	90
RD246030	6" X 3"	168.3	88.9	250	145	95
RD246041	6" X 4"	168.3	114.3	270	145	115
RD248040	8" X 40	219.1	40	235	155	70
RD248050	8" X 50	219.1	50	250	155	85
RD248063	8" X 63	219.1	63	255	155	90
RD248030	8" X 3"	219.1	88.9	260	155	95
RD248041	8" X 4"	219.1	114.3	280	155	115
RD248060	8" X 6"	219.1	168.3	310	155	145

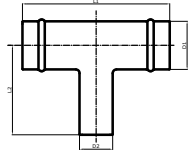
**Design Standard :** ASME B 31.1  
**Standard Colour :**  
3" - 8" Powder Coated Aluminium

## REDUCING TEE

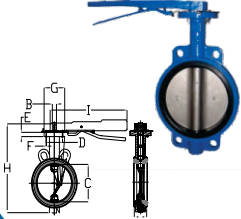
PART NO	SIZE	L1	L2	D1	D2
RT243040	3" X 40	280	110	88.9	40
RT243050	3" X 50	280	135	88.9	50
RT243063	3" X 63	280	135	88.9	63
RT244140	4" X 40	330	135	114.3	40
RT244150	4" X 50	330	135	114.3	50
RT244163	4" X 63	330	155	114.3	63
RT244130	4" X 3"	330	165	114.3	88.9
RT246040	6" X 40	400	155	168.3	40
RT246050	6" X 50	400	175	168.3	50
RT246063	6" X 63	400	175	168.3	63
RT246030	6" X 3"	400	185	168.3	88.9
RT246041	6" X 4"	400	200	168.3	114.3
RT248040	8" X 40	500	175	219.1	40
RT248050	8" X 50	500	175	219.1	50
RT248063	8" X 63	500	200	219.1	63
RT248030	8" X 3"	500	210	219.1	88.9
RT248041	8" X 4"	500	225	219.1	114.3
RT248060	8" X 6"	500	225	219.1	168.3

**Design Standard :** ASME B 31.1  
**Standard Colour :** 3" - 8" Powder Coated Aluminium

## RT 24



## BF 12



## BUTTERFLY VALVE-BF12

PART NO	INCH	A	B	C	D	E	F	G	H	I
BF128000	3"	46	15	81	50	17	7	65	255	195
BF1210000	4"	52	15	103	50	17	7	65	284	195
BF1250000	6"	56	19	153	70	17	9	90	358	320
BF1220000	8"	60	19	201	70	97	9	90	421	320

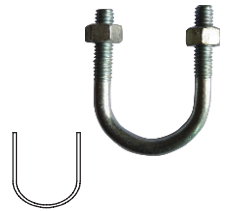
**Design Standard :** ASME B 31.1  
**Standard Colour :**  
3" - 8" Powder Coated Cast Iron

## PIPE HOLDER

PART NO.	SIZE	Ø1
PH133000	3"	88.9
PH134000	4"	114.3
PH136000	6"	168.3
PH138000	8"	219.1

**Design Standard :** ASME B 31.1  
**Standard Colour :**  
3" - 8" Powder Coated Stainless Steel

## PH 13



# TOOLS

## PW11



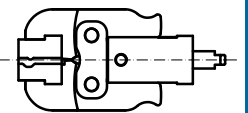
## CAP OPENING TOOL

PART NO.	SIZE
OT132000	20
OT132500	25
OT133200	32
OT134000	40
OT135000	50
OT136300	63

## CRIMPING JAWS

PART NO	SIZE
CJ133000	3"
CJ134100	4"
CJ136000	6"
CJ138000	8"

## CJ 13



## CT11



## CHAMFERING TOOL

PART NO.	SIZE
CT11 0100	20-63 mm

## TUBE CUTTER

PART NO.	SIZE
TC11 0100	20-63 mm

## TC11



## CM 13



## CRIMPING MACHINE

PART NO	SIZE
CM130000	3" to 8"

## DEBURING TOOL

PART NO.	SIZE
DB110000	20mm to 8"

## DB11





### POLYURETHENE TUBE

PART NO.	ØD
PT110401*	04
PT110601*	06
PT110801*	08
PT111001*	10
PT111201*	12

\*Colour Code:  
 00 - Transparent  
 01 - Blue (Std)  
 02 - Yellow  
 03 - Green  
 04 - Black  
 05 - Red

MOC: Polyurethane  
 Available in 100 mtr's

### RECOIL HOSE

PART NO.	ØD
RH110403*	04
RH110603*	06
RH110803*	08
RH111003*	10
RH111203*	12

Available in 2,3,5,6,8 & 10 Mtr's for respective length please add number of meter to the part number. For 5 Mtr's length of 6mm OD add 05 (Ex: RH110605).



### EH 11



### EXPANSION HOSE

PART NO.	ØD	SIZE	PART NO.	ØD	L
EH112505*	25	1/2"	EH114012*	40	1 1/4"
EH112507*	25	3/4"	EH114015*	40	1 1/2"
EH112510*	25	1"	EH115015*	50	1 1/2"
EH113210*	32	1"	EH115020*	50	2"
EH113212*	32	1 1/4"	EH116320*	63	2"
EH114010*	40	1"	EH116325*	63	2 1/2"

Available in 1,2&3 Mtr's. For 1 Mtr's add .1 (Ex:EH112505.1)

### FR

PART NO.	SIZE
FR110200	1/4"
FR110500	1/2"
FR110700	3/4"
FR111000	1"

### FR 11

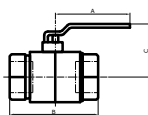


### BV 11



### BALL VALVE

PART NO.	DN	A	B	C
BV110200	1/4"	90	38	48
BV110500	1/2"	90	46	58
BV110700	3/4"	90	52	65
BV111000	1"	106	60	69
BV111200	1 1/4"	110	62	80
BV111500	1 1/2"	148	83	92
BV112000	2"	148	89	110
BV112500	2 1/2"	217	110	132



### FRL

PART NO.	SIZE
FL110200	1/4"
FL110500	1/2"
FL110700	3/4"
FL111000	1"

### FL 11

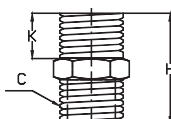


### HN 11



### HEX NIPPLE

PART NO.	ØC	K	H
HN110500	1/2"	15	36
HN110700	3/4"	16	38
HN111000	1"	16	48
HN111200	1 1/4"	23	58
HN111500	1 1/2"	24	63
HN112000	2"	28	81



### AIR GUN

PART NO.	H	L	W
AG110200	57	26	21

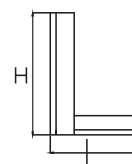
### AG 11



### LA 11



### L - ANGLE



PART NO.	H	L
LA110304	3"	4"
LA110408	4"	8"
LA110604	6"	4"
LA110606	6"	6"
LA110608	6"	8"
LA110609	6"	9"
LA110612	6"	12"
LA111024	10"	24"

### BUSH WITH O RING GASKET

PART NO.	Ø
BS132000	20
BS132500	25
BS133200	32
BS134000	40
BS135000	50
BS136300	63

### BS 13



### UC 11



### U CLAMP



PART NO.	H	L	W
UC110000	57	26	21

### CAP WITH RETAINER RINGS

PART NO.	Ø
BO132000	20
BO132500	25
BO133200	32
BO134000	40
BO135000	50
BO136300	63

### BO 13





## SM11



## MALE SOCKET

PART NO.	SIZE
SM110200	1/4"
SM110300	3/8"
SM110500	1/2"
SM110700	3/4"
SM111000	1"

## HOSE SOCKET

PART NO.	SIZE
SH110340	3/8"
SH110540	1/2"
SH110740	3/4"
SH111040	1"

## SH11



## SN11



## NUT SOCKET

PART NO.	SIZE
SN110800	08
SN111000	10
SN111200	12
SN111400	14

## MALE PLUG

PART NO.	SIZE
PM110200	1/4"
PM110300	3/8"
PM110500	1/2"
PM110700	3/4"
PM111000	1"

## PM11



## SF11



## FEMALE SOCKET

PART NO.	SIZE
SF110200	1/4"
SF110300	3/8"
SF110500	1/2"
SF110700	3/4"
SF111000	1"

## NUT PLUG

PART NO.	SIZE
PN110800	08
PN111000	10
PN111200	12
PN111400	14

## PN11



## PH11



## HOUSE PLUG

PART NO.	SIZE
PH110200	1/4"
PH110300	3/8"
PH110500	1/2"
PH110700	3/4"
PH111000	1"

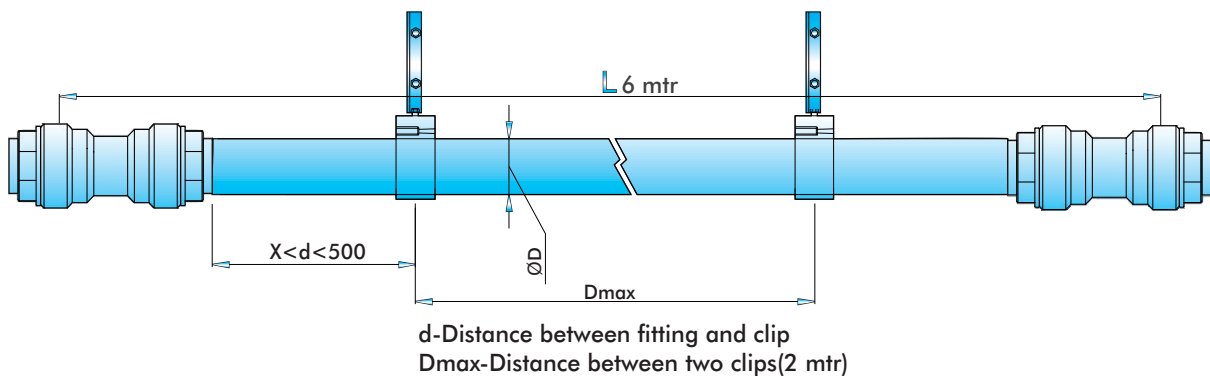
## FEMALE PLUG

PART NO.	SIZE
PF110200	1/4"
PF110300	3/8"
PF110500	1/2"
PF110700	3/4"
PF111000	1"

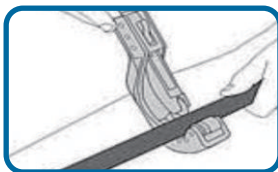
## PF11



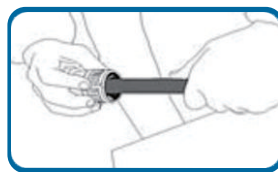
**B**efore Installing Quickair™ system a responsible person should check the area of installation Confirm to regulation designed to prevent the risk of explosion. Quickair™ must be installed either After the receiver or after the dryer. Flexible hose should be fitted at the beginning of the piping system. In order to counter the vibration found in any compressed air piping system. When maintaining or modifying the Quickair™ piping system the work must be undertaken only after the compressed air system has been vented. The installer must use only Quickair™ components and accessories. The installer also ensure that the installation as been properly carried out in-line with the instruction and that it meets all legal requirements.



### FIXING THE TUBE



Step 1:  
Cutting the Tubes



Step 2:  
Chamfering the Tubes



Step 3:  
Inserting the tubes  
into fitting

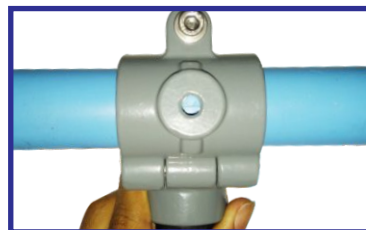


Step 3:  
Inserting the  
Tubes into fitting

### FIXING THE DROP



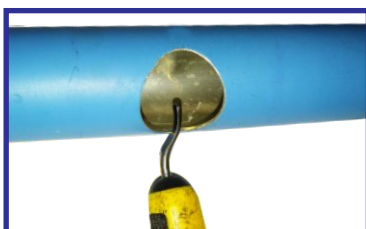
Step 1:  
Positioning the  
Droplet on the tube



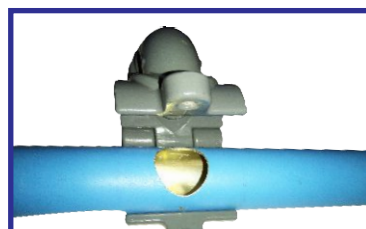
Step 2:  
Marking the position  
Of the hole on tube



Step 3:  
Drilling the Required  
Hole on the tube



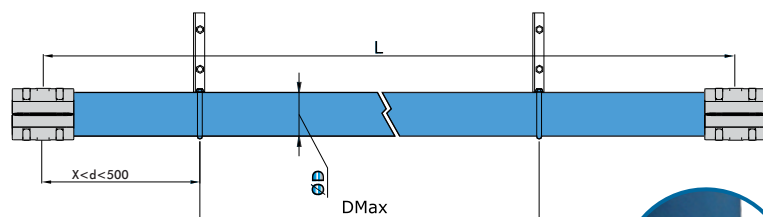
Step 4:  
Chamfering the hole



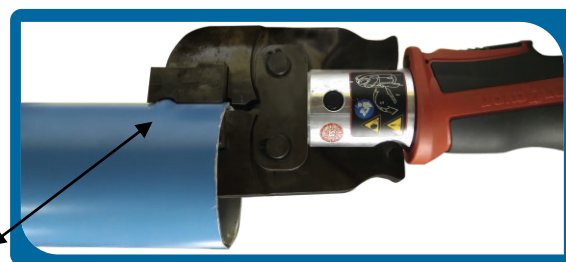
Step 5:  
Allgning the Droplet to the hole



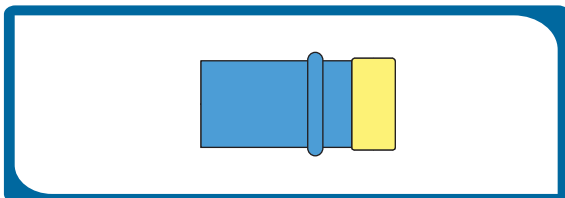
Step 6:  
Fixing the Droplet on the tube



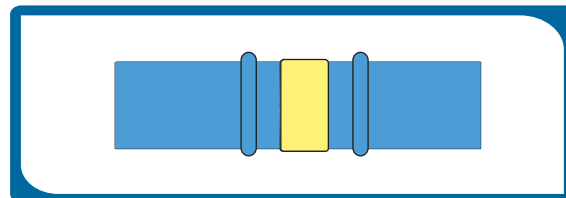
d-Distance between fitting and clip.  
ØD- Diameter of the pipe  
Dmax-Distance between two clips(1m)



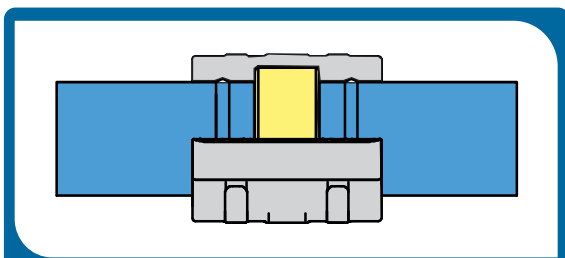
Crimping the tube



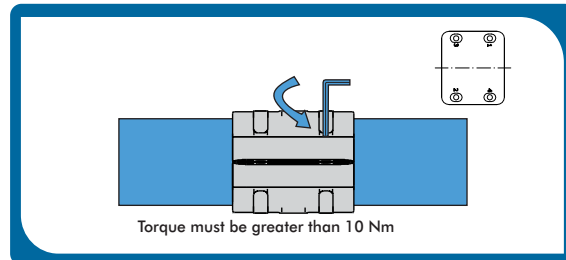
STEP 1: Join the bush with crimped pipe.



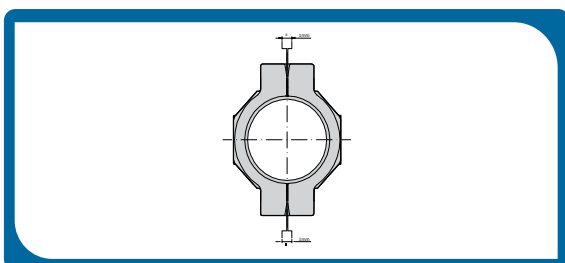
STEP 2: Join another crimped pipe with bush.



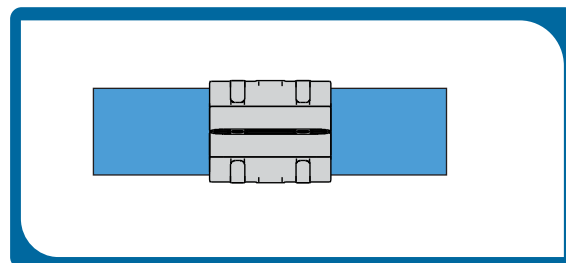
STEP 3: Join the top and bottom clamp with the bush.



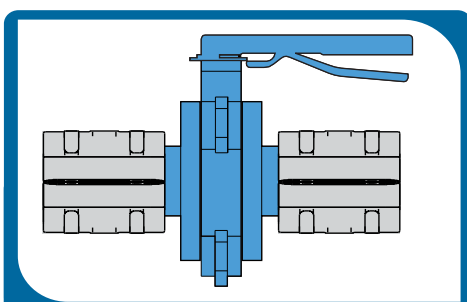
STEP 4: Tight the clamp with align bolts and align key.



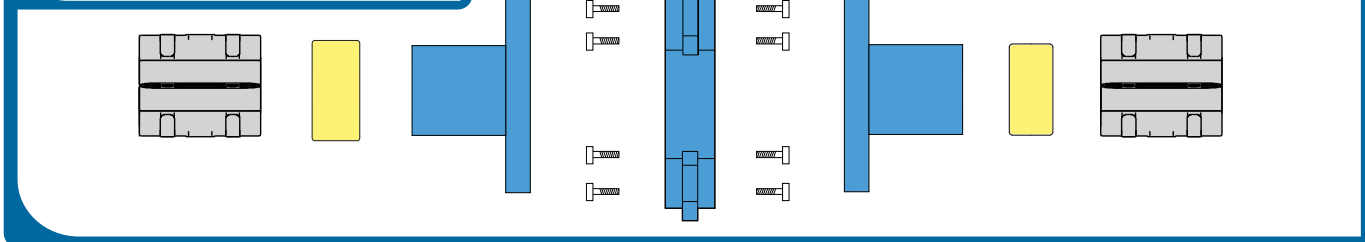
STEP 5: While tightening maintain 1mm gap between top and bottom clamp.



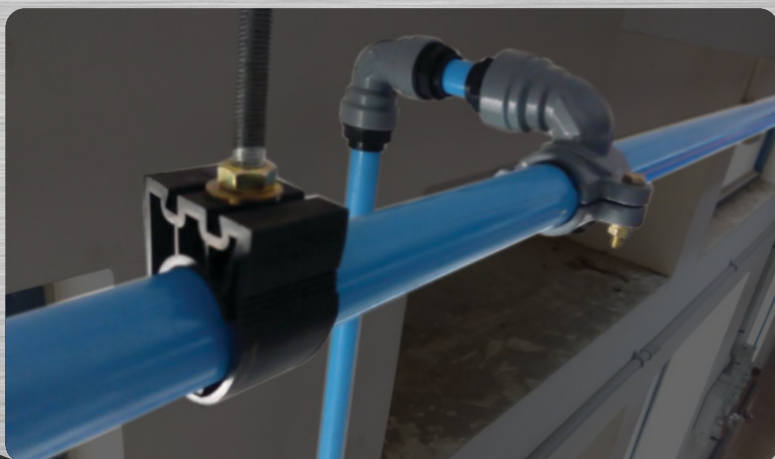
STEP 6: After tightening pass the air and check the leakage with soap water.



## Assembly of butterfly valve with clamps







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