Quickair™

Modular Piping System

Aluminium | Stainless Steel

Product Catalogue

Aluminium with Engineering Plastic Fittings

Redefining Modular Piping

www.canares.com

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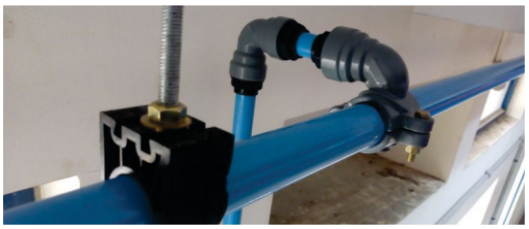

Quickair™ boasts of Loyal customers across all industrial vertical such as Electrical, Semi-conductor, Food & Pharma Textiles, Engineering, etc.

Few of our biggest customers are

intel, Biocon, IFB, BOSCH, Motherson Sumi Systems Limited, Autoliv, TVS, Anthem BioSciences, EMERSON, ALSTOM, ROYAL ENFIELD, TaeguTec, PRAXAIR and much more...

CONTENT

Intruduction

For over 26 years industries have relied upon **Quickair™** for most innovative and dependable modular piping and flow control solutions.

From inception over 26 years ago **Quickair™** has grown to be a major international business with representation all around the world.

We are recognized as designing and building the most reliable product backed up by highly acclaimed customer service.

A genuine long term commitments to customers & partners, under pins our culture engineering excellence making **Quickair™** a consistently dependable choice for products and service

Committed to Innovation

Throughout the company's history our engineers have focused on solving customer challenges and developing new solutions with levels of engineering skills and creativity that our competitors still can't match

Some innovation of adopted immediately, whilst other may require thousands of hours of testing and certification before they can be offer to our customers with every products **Quickair™** develops we can be sure of one thing, the quality and reliability are an integral part.

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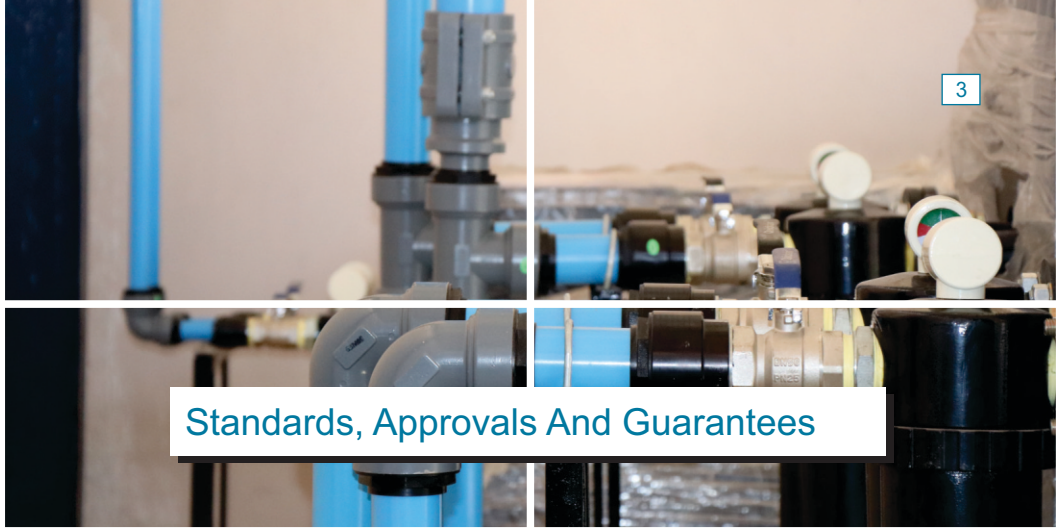
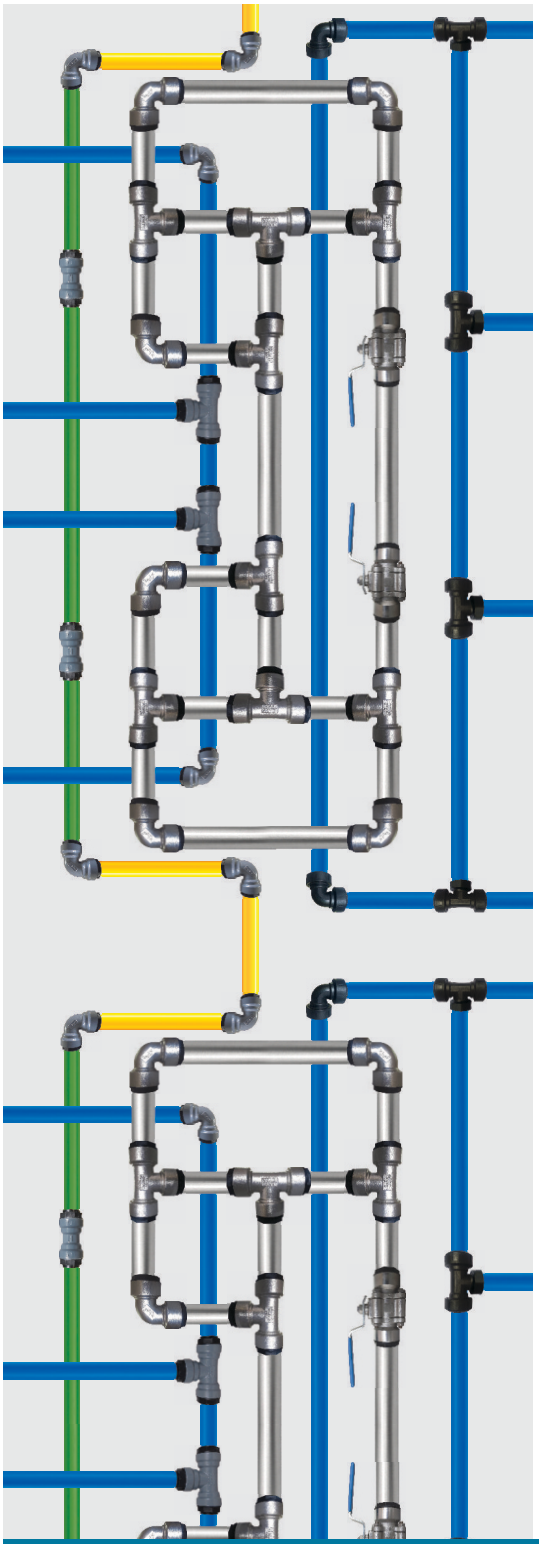


Standards, Approvals And Guarantees



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

Guarantees

Our policy of continuously and rigorously testing **Quickair™** 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™** fittings are guaranteed against manufacturing defects for 10 years when installed in accordance with our instructions on specified tube materials and applications.

The Quickair™ Range Meets The Following Standards

Quickair™ Fittings all **Quickair™** general range fittings are comply with the requirements. ASME B31.1/3 specification for the fittings and tubes 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™** fittings carry the marking of manufacturing batch no. Where pipelines are constructed exclusively using **Quickair™** fittings and recommended tubes, the resulting Installation will be deemed **Quickair™** Systems and such qualify for a 10 year guarantee against all manufacturing Defects.

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 piping 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.

CE Conformité Européene
(PED 2014/68/EU)

For more information visit
www.canares.com

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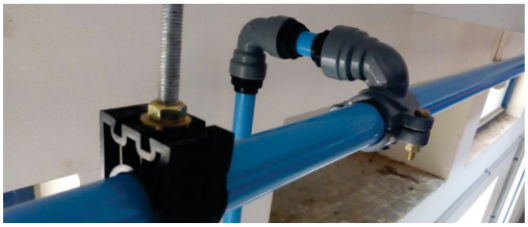
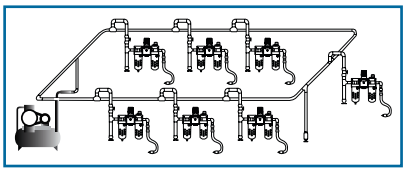
Pre - Installation



Proper line sizing for an 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

TOTAL FLOW REQUIRED

FLOW RATE			LENGTH									
			164 ft	328 ft	429 ft	984 ft	1640 ft	2460 ft	3280 ft	4265 ft	5249 ft	6561 ft
Nm^3/ 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	20	20	20	20	20	20	20	25	25	25
30	500	18	20	20	20	25	25	25	25	25	25	32
50	833	29	20	25	25	25	25	25	25	32	32	32
70	1167	41	25	25	25	25	32	32	32	40	40	40
100	1667	59	25	25	32	32	32	40	40	50	50	63
150	2500	88	32	32	32	32	40	40	50	50	63	63
250	4167	147	32	32	40	40	50	50	63	63	76	76
350	5883	206	32	40	40	50	50	63	63	76	76	76
500	8333	294	40	40	50	50	63	63	76	76	76	90
750	12500	441	50	50	63	63	63	76	76	76	90	90
1000	16667	589	50	50	63	63	76	76	76	90	90	90
1250	20841	736	50	63	63	63	76	76	76	90	90	90
1500	25000	883	63	63	63	76	76	76	90	90	90	90
1750	29167	1030	63	63	76	76	76	90	90	90	90	90
2000	33328	1177	63	76	76	76	90	90	90	90	113	113
2500	41683	1472	63	76	76	90	90	90	90	113	113	113
3000	50000	1766	76	76	76	90	90	113	113	168	168	168
3500	58332	2060	76	90	90	113	113	113	168	168	168	168
4000	66657	2354	90	113	113	113	113	168	168	168	168	168
4500	74983	2648	90	113	113	113	168	168	168	168	168	168
5000	83308	2942	90	113	113	168	168	168	168	168	168	168
5500	91661	3237	113	113	113	168	168	168	168	168	168	219
6000	99986	3531	113	113	168	168	168	168	168	168	219	219
6500	108311	3825	168	168	168	168	168	168	168	219	219	219
7000	119978	4237	168	168	168	168	168	168	219	219	219	219
8000	133315	4708	219	219	219	219	219	219	219	219	219	219

- Calculations based on total maximum pressure drop (△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™** 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)

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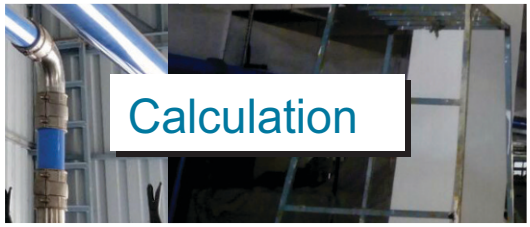



Calculation

Flow Calculator

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 90mm size (pressure drop of 145 psi=less then 5%)

PRESSURE DROP COMPONENTS

Ball Valve — No of Ball Valve
Elbows — No of Elbows
Equal tee — No of Equal tee
Reducers — No of Reducers
TOTAL =

CALCULATE | CLEAR

PRESSURE DROP ON STRAIGHT LINE

Pressure Drop

Pipe Length. L — mtrs
Pipe Dia. D — mm
Free Air Flow Rate — *cfm
Pipeline Pressure — bar

TOTAL =

CALCULATE | CLEAR

TOTAL PRESSURE DRO | GRAND TOTAL

COST OF POWER CALCULATION

BHP | Electrical Rate | Rs/Yr. | CALCULATE
No of Hr/Yr | Motor Efficiency | % | CLEAR

From above you can calculate cost of power for producing the compressed air. Visit: www.canares.com for live calculation.

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.

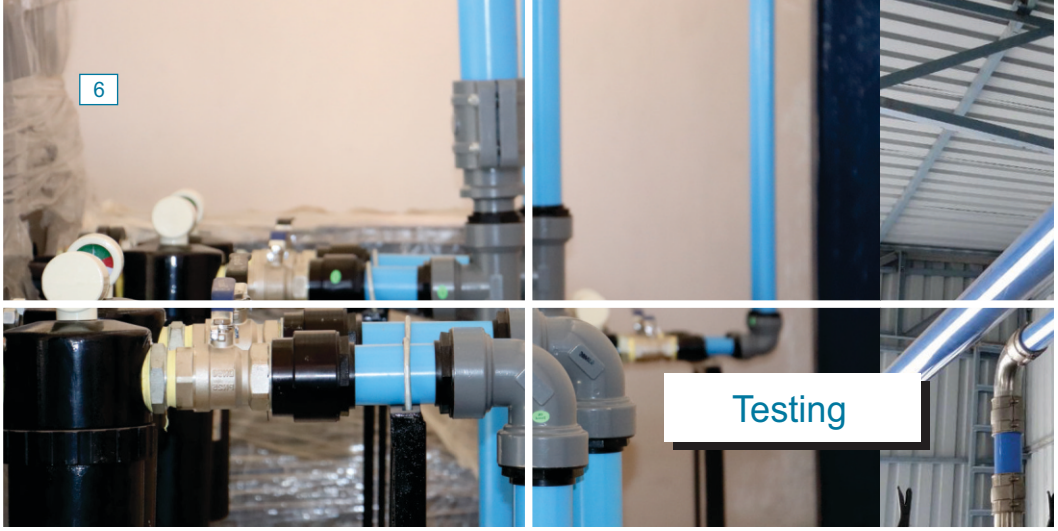
Innovative technology at the heart of **Quickair™** enables rapid and easy assembly, quick connection of components to the Aluminium pipes.

Quickair™ OFFERS

- Lower installation cost
- Push-Fit concept
- No corrosion
- Modular design
- 20mm-205mm dia pipe sizes
- Re-usable fittings
- Easy to install

Profitable And Efficient Alternative

Quickair™ offers a cost effective, innovative and energy efficient aluminium, Stainless Steel, Pex compressed air / Inertgas modular 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 account for welding 60 to 80% and for brazing 50 to 70%



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Testing

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.

Testing Procedure (ASME B31.3)

- The gas test pressure shall not be less than 1.2 nor more than 1.5 times the design pressure of the piping system. It shall not exceed the maximum allowable test pressure of any Non-Isolated component.
- The pressure in the system shall gradually increased to not more than ½ of the test pressure, the pressure shall be continuously maintained for a minimum time of 10 minutes.
- Than it shall be reduced to the lower of design pressure or 100psig (700kPa[Gage]) and held for such time as may be necessary to conduct examination for leakage. for leak test by soap bubble or equivalent method shall be made of all joint and connections.

Optimum Flow, Highest Air Quality & Low Maintenance

Quickair™ smooth calibrated Aluminium, Stainless Steel, Pex construction has a low friction co-efficient, 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 / Inertgas. **Quickair™** 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 offer you energy efficiency.

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

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 31.1/3

Materials of Construction of Aluminium pipe

Alloy	Aluminium Alloy 6063 T5
Tolerance	Tolerance Std. IS2763, IS3965, EN-755-2
Color	Blue coated (RAL 5012) other color on request
Surface finish	60 microns

Material of Construction of Fittings

Size	20– 63mm
Body	Aluminium
Cap, Bush	Engineering Plastic
Oring	HNBR/EPDM/VITON (for other option please consult)

Application:

Compressed air, nitrogen, Vacuum, Co_2 for any other application Please contact.

Note: All products are 100% Tested

Chemical Composition of Aluminium Tubes

Alloy	6063
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

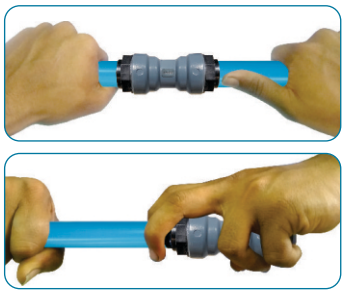
Fittings

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 180°c (option upto 200°c)

Simply push-fit Concept

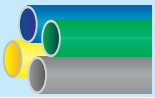
Quickair™ AP series fitting is similar to one touch pneumatic push fitting concept. The advantage of this "Push-Fit" concept over other is modular piping systems. As there is nothing to tighten but only to "simply push" the tube inside the fitting. While removing the tube from the fitting just need to 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.

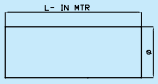


Integral condensate retention design for superior flow without pressure drops.

PIPE
AP24

Design Standard : ASME B 31.1/3
Standard Colour : 1) Blue, 2) Yellow, 3) Grey, 4) Green.
Other Colours are optional.

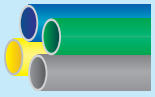


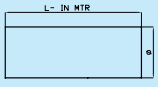


PART NO.	COLORS	SIZE	Thickness (mm)	METER	PN (bar)	Weight
AP24200016	Blue	20mm	1.25	6	20	1.194
AP24250016	Blue	25mm	1.50	6	20	1.794
AP24320016	Blue	32mm	1.60	6	20	2.472
AP24400016	Blue	40mm	2	6	20	3.870
AP24500016	Blue	50mm	2	6	20	4.884
AP24630016	Blue	63mm	2	6	20	6.210

PIPE
AP24

Design Standard : ASME B 31.1/3
Standard Colour : 1) Blue, 2) Yellow, 3) Grey, 4) Green.
Other Colours are optional.



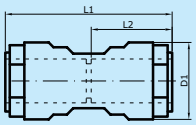


PART NO.	COLORS	SIZE	Thickness (mm)	METER	PN (bar)	Weight
AP24200013	Blue	20mm	1.25	3	20	0.597
AP24250013	Blue	25mm	1.50	3	20	0.897
AP24320013	Blue	32mm	1.60	3	20	1.236
AP24400013	Blue	40mm	2	3	20	1.935
AP24500013	Blue	50mm	2	3	20	2.442
AP24630013	Blue	63mm	2	3	20	3.105

* For example : 40mm Blue pipe: AP24400013, for Yellow AP24400023, for Grey AP24400033, for Green AP24400043.

PIPE TO PIPE CONNECTOR

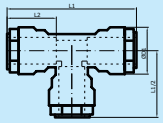
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (Kg)
PP242000	20mm	36	88	43	20	0.086
PP242500	25mm	42	94	45	20	0.093
PP243200	32mm	55	104	51	20	0.021
PP244000	40mm	69	136	66	20	0.420
PP245000	50mm	80	147	72	20	0.525
PP246300	63mm	95	152	75	20	0.680

EQUAL TEE

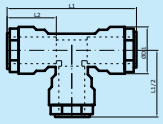
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (Kg)
ET242000	20mm	36	110	43	20	0.130
ET242500	25mm	42	118	45	20	0.165
ET243200	32mm	55	140	51	20	0.380
ET244000	40mm	69	178	66	20	0.860
ET245000	50mm	80	198	72	20	1.008
ET246300	63mm	95	216	75	20	1.950

REDUCED TEE

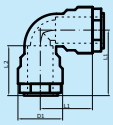
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (Kg)
RT242520	25mm x 20mm	42		128	45	20	0.215
RT243220	32mm x 20mm	55		150	51	20	0.42
RT243225	32mm x 25mm	55		150	51	20	0.425
RT244020	40mm x 20mm	69		188	66	20	0.905
RT244025	40mm x 25mm	69		188	66	20	0.91
RT244032	40mm x 32mm	69		188	66	20	0.925
RT245020	50mm x 20mm	80		208	72	20	1.005
RT245025	50mm x 25mm	80		208	72	20	1.025
RT245032	50mm x 32mm	80		208	72	20	1.253
RT245040	50mm x 40mm	80		208	72	20	1.325
RT246320	63mm x 20mm	95		226	75	20	1.95
RT246325	63mm x 25mm	95		226	75	20	2.12
RT246332	63mm x 32mm	95		226	75	20	2.213
RT246340	63mm x 40mm	95		226	75	20	2.321
RT246350	63mm x 50mm	95		226	75	20	2.425

ELBOW

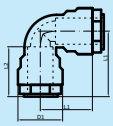
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (Kg)
EL242000	20mm	36	110	43	20	0.090
EL242500	25mm	42	118	45	20	0.113
EL243200	32mm	55	140	51	20	0.250
EL244000	40mm	69	89	66	20	0.490
EL245000	50mm	80	99	72	20	0.634
EL246300	63mm	95	109	75	20	1.230

REDUCED ELBOW

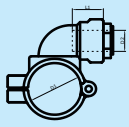
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (Kg)
RE242520	25mm x 20mm	42	69	45	20	0.155
RE243220	32mm x 20mm	55	80	51	20	0.315
RE243225	32mm x 20mm	55	80	51	20	0.35
RE244020	40mm x 20mm	69	99	66	20	0.55
RE244025	40mm x 25mm	69	99	66	20	0.555
RE244032	40mm x 32mm	69	99	66	20	0.655
RE245020	50mm x 20mm	80	109	72	20	0.685
RE245025	50mm x 25mm	80	109	72	20	0.71
RE245032	50mm x 32mm	80	109	72	20	0.734
RE245040	50mm x 40mm	80	109	72	20	0.765
RE246320	63mm x 32mm	95	118	75	20	1.333
RE246325	63mm x 25mm	95	118	75	20	1.385
RE246332	63mm x 32mm	95	118	75	20	1.415
RE246340	63mm x 40mm	95	118	75	20	1.435
RE246350	63mm x 50mm	95	118	75	20	1.485

DROPLETS - Tube To Tube

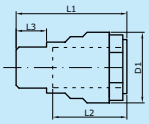
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	D2 (mm)	L1 (mm)	PN (bar)	Weight (Kg)
MD242520	25mm x 20mm	25	20	43	20	0.160
MD243220	32mm x 20mm	32	20	43	20	0.270
MD243225	32mm x 25mm	32	25	45	20	0.250
MD244020	40mm x 20mm	40	20	43	20	0.270
MD244025	40mm x 25mm	40	25	45	20	0.260
MD245020	50mm x 20mm	50	20	43	20	0.300
MD245025	50mm x 25mm	50	25	45	20	0.300
MD246320	63mm x 20mm	63	20	43	20	0.350
MD246325	63mm x 25mm	63	25	45	20	0.350

MALE CONNECTOR

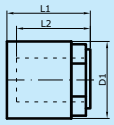
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	BSP	Weight (Kg)
MC242005	20mm x 0.5"	36	62	43	14	1/2"	0.070
MC242007	20mm x 0.7"	36	64	43	16	3/4"	0.070
MC242505	25mm x 0.5"	42	62	45	14	1/2"	0.080
MC242507	25mm x 0.7"	42	65	45	16	3/4"	0.090
MC242510	25mm x 1"	42	65	45	16	1"	0.100
MC243210	32mm x 1"	55	69	51	16	1"	0.165
MC243212	32mm x 1.2"	55	70	51	16.5	1 1/4"	0.195
MC244010	40mm x 1"	69	88	66	16	1"	0.365
MC244015	40mm x 1.5"	69	88	66	18	1 1/2"	0.365
MC245015	50mm x 1.5"	80	95	72	18	1 1/2"	0.450
MC245020	50mm x 2"	80	95	72	18	2"	0.460
MC246320	63mm x 2"	95	97	75	18	2"	0.780
MC246325	63mm x 2.5"	95	98	75	19	2 1/2"	0.840

END CAP

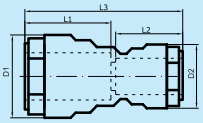
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (Kg)
EC242000	20mm	36	49	43	20	0.072
EC242500	25mm	42	49	45	20	0.090
EC243200	32mm	55	55	51	20	0.185
EC244000	40mm	69	73	66	20	0.395
EC245000	50mm	80	78	72	20	0.550
EC246300	63mm	95	81	75	20	0.820

REDUCER

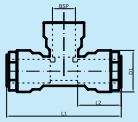
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	PN (bar)	Weight (kg)
RD242520	25mm x 20mm	42	36	45	43	92	20	1.145
RD243220	32mm x 20mm	55	36	51	43	98	20	0.230
RD243225	32mm x 25mm	55	42	51	45	98	20	0.235
RD244020	40mm x 20mm	69	36	66	43	114	20	0.37
RD244025	40mm x 25mm	69	42	66	45	114	20	0.38
RD244032	40mm x 32mm	69	55	66	51	120	20	0.52
RD245020	50mm x 20mm	80	36	72	43	120	20	0.420
RD245025	50mm x 25mm	80	42	72	45	120	20	0.480
RD245032	50mm x 32mm	80	55	72	51	126	20	0.550
RD245040	50mm x 40mm	80	69	72	66	142	20	0.850
RD246320	63mm x 20mm	95	36	75	43	122	20	0.740
RD246325	63mm x 25mm	95	42	75	45	122	20	0.760
RD246332	63mm x 32mm	95	55	75	51	128	20	0.840
RD246340	63mm x 40mm	95	69	75	66	144	20	1.040
RD246350	63mm x 50mm	95	80	75	72	150	20	1.300

FEMALE THREAD TEE

Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1(mm)	L1(mm)	L2(mm)	BSP	PN (bar)	Weight (kg)
FT242005	20mm x 0.5″	36	110	43	0.5″	20	0.15
FT242007	20mm x 0.7″	36	110	43	0.7″	20	0.175
FT242505	25mm x 0.5″	42	118	45	0.5″	20	0.216
FT242507	25mm x 0.5″	42	118	45	0.5″	20	0.195
FT242510	25mm x 1″	42	118	45	1″	20	0.18
FT243205	32mm x 0.5″	55	140	51	0.5″	20	0.415
FT243207	32mm x 0.7″	55	140	51	0.7″	20	0.395
FT243210	32mm x 1″	55	140	51	1″	20	0.385
FT244005	40mm x 0.5″	69	178	66	0.5″	20	0.86
FT244007	40mm x 0.7″	69	178	66	0.7″	20	0.85
FT244010	40mm x 1″	69	178	66	1″	20	0.83
FT245005	50mm x 0.5″	80	198	72	0.5″	20	1.125
FT245007	50mm x 0.7″	80	198	72	0.7″	20	1.001
FT245010	50mm x 1″	80	198	72	1″	20	0.95
FT246305	63mm x 0.5″	95	216	75	0.5″	20	1.985
FT246307	63mm x 0.7″	95	216	75	0.7″	20	1.852
FT246310	63mm x 1″	95	216	75	1″	20	1.75

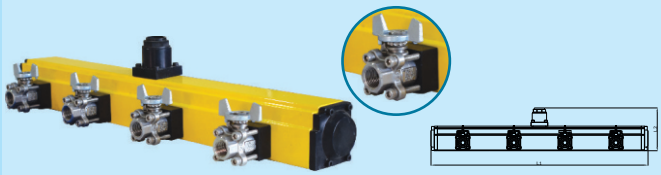
MANIFOLD With Mini Ball Valve

Design Standard : ASME B 31.1/3

PART NO.	SIZE	Outlets	PN (bar)	L1	L2	Weight (Kg)
GM321204	1 ¼" (32)	4	20	600	125	10
GM321206	1 ¼" (32)	6	20	600	125	10
GM401504	1 ½" (40)	4	20	600	130	12
GM401506	1 ½" (40)	6	20	600	130	12
GM502004	2" (50)	4	20	600	135	15
GM502006	2" (50)	6	20	600	135	15
GM632504	2 ½" (63)	4	20	600	140	18
GM632506	2 ½" (63)	6	20	600	140	18

MANIFOLD With Inbuilt Valve

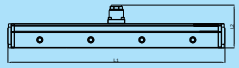
Design Standard : ASME B 31.1/3



PART NO.	SIZE	Outlets	PN (bar)	L1	L2	Weight (Kg)
GMIBV321204	1 ¼" (32)	4	20	600	125	10
GMIBV321206	1 ¼" (32)	6	20	600	125	10
GMIBV401504	1 ½" (40)	4	20	600	130	12
GMIBV401506	1 ½" (40)	6	20	600	130	12
GMIBV502004	2" (50)	4	20	600	135	15
GMIBV502006	2" (50)	6	20	600	135	15
GMIBV632504	2 ½" (63)	4	20	600	140	18
GMIBV632506	2 ½" (63)	6	20	600	140	18

MANIFOLD With Mini Ball Valve Vertical

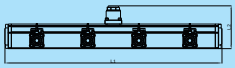
Design Standard : ASME B 31.1/3

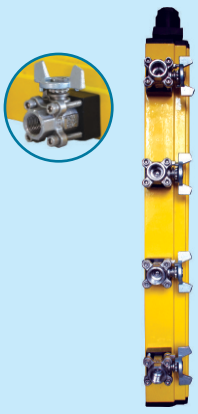


PART NO.	SIZE	Outlets	PN (bar)	L1	L2	Weight (Kg)
GM321204	1 ¼" (32)	4	20	600	125	10
GM321206	1 ¼" (32)	6	20	600	125	10
GM401504	1 ½" (40)	4	20	600	130	12
GM401506	1 ½" (40)	6	20	600	130	12
GM502004	2" (50)	4	20	600	135	15
GM502006	2" (50)	6	20	600	135	15
GM632504	2 ½" (63)	4	20	600	140	18
GM632506	2 ½" (63)	6	20	600	140	18

MANIFOLD With Inbuilt Valve Vertical

Design Standard : ASME B 31.1/3





PART NO.	SIZE	Outlets	PN (bar)	L1	L2	Weight (Kg)
GMIBV321204	1 ¼" (32)	4	20	600	125	10
GMIBV321206	1 ¼" (32)	6	20	600	125	10
GMIBV401504	1 ½" (40)	4	20	600	130	12
GMIBV401506	1 ½" (40)	6	20	600	130	12
GMIBV502004	2" (50)	4	20	600	135	15
GMIBV502006	2" (50)	6	20	600	135	15
GMIBV632504	2 ½" (63)	4	20	600	140	18
GMIBV632506	2 ½" (63)	6	20	600	140	18

MANIFOLD

Design Standard : ASME B 31.1/3

PART NO.	SIZE	Outlets	PN (bar)	L1	L2	Weight (Kg)
CAMF200504	20	4	20	260	110	3
CAMF200505	20	5	20	260	110	3
CAMF200506	20	6	20	260	110	3
CAMF250504	25	4	20	260	110	3
CAMF250505	25	5	20	260	110	3
CAMF250506	25	6	20	260	110	3

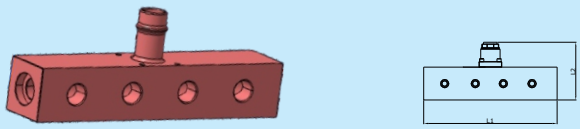
MANIFOLD WITH MINI BALL VALVE

Design Standard : ASME B 31.1/3

PART NO.	SIZE	Outlets	PN (bar)	L1	L2	Weight (Kg)
CAMF200504MB05	20	4	20	260	110	3
CAMF200505MB05	20	5	20	260	110	3
CAMF200506MB05	20	6	20	260	110	3
CAMF250504MB05	25	4	20	260	110	3
CAMF250505MB05	25	5	20	260	110	3
CAMF250506MB05	25	6	20	260	110	3

INTEGRATED MANIFOLD

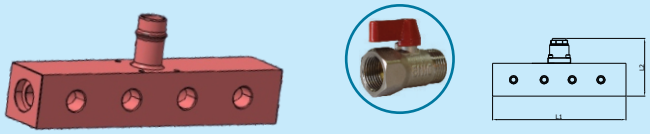
Design Standard : ASME B 31.1/3



PART NO.	SIZE	Outlets	PN (bar)	L1	L2	Weight (Kg)
CAMF16200504	20	4	40	260	110	3
CAMF16200505	20	5	40	260	110	3
CAMF16200506	20	6	40	260	110	3
CAMF16250504	25	4	40	260	110	3
CAMF16250505	25	5	40	260	110	3
CAMF16250506	25	6	40	260	110	3

INTEGRATED MANIFOLD WITH MINI BALL VALVE

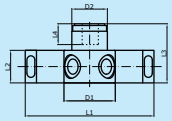
Design Standard : ASME B 31.1/3



PART NO.	SIZE	Outlets	PN (bar)	L1	L2	Weight (Kg)
CAMF16200504MB05	20	4	40	260	110	3
CAMF16200505MB05	20	5	40	260	110	3
CAMF16200506MB05	20	6	40	260	110	3
CAMF16250504MB05	25	4	40	260	110	3
CAMF16250505MB05	25	5	40	260	110	3
CAMF16250506MB05	25	6	40	260	110	3

WALL BRACKET ½" OUTLET 2WAY

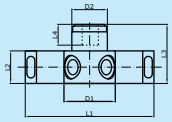
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	PN (bar)	Weight (kg)
WB242005	20mm x 0.5"	68	36	140	40	79	43	20	0.550
WB242505	25mm x 0.5"	68	42	140	40	79	45	20	0.570

WALL BRACKET ½" OUTLET 2WAY With MINI BALL VALVE

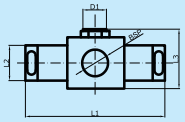
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	PN (bar)	Weight (kg)
WB242005MB05	20mm x 0.5"	68	36	140	40	79	43	20	0.550
WB242505MB05	25mm x 0.5"	68	42	140	40	79	45	20	0.570

SINGLE WAY WALL BRACKET

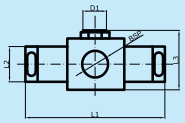
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	PN (bar)	Weight (kg)
WB24012005	20mm x 0.5"	20	120	42	65	20	0.525
WB24012505	25mm x 0.5"	25	120	42	65	20	0.550

INTEGRATED SINGLE WAY WALL BRACKET

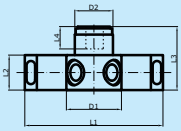
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	PN (bar)	Weight (kg)
WB24012005	20mm x 0.5"	20	120	42	65	20	0.525
WB24012505	25mm x 0.5"	25	120	42	65	20	0.550

WALL BRACKET ½" OUTLET 2WAY

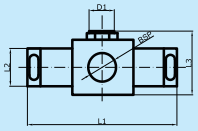
XX:- SS304:-02, SS316:-03
Design Standard: ASME B 31.1/3



PART NO.	SIZE	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	PN (bar)	Weight (kg)
WBXX2005	20mm	68	36	140	40	79	43	20	0.796
WBXX2505	25mm	68	42	140	40	79	45	20	1.215

SINGLE WAY WALL BRACKET

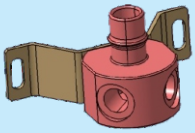
XX:- SS304:-02, SS316:-03
Design Standard: ASME B 31.1/3

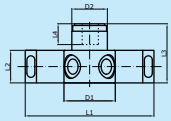


PART NO.	SIZE	D1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	PN (bar)	Weight (kg)
WBXX012005	20mm	20	120	42	65	20	0.726
WBXX012506	25mm	25	120	42	65	20	0.731

INTEGRATED WALL BRACKET ½" OUTLET 2WAY

Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic

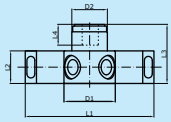




PART NO.	SIZE	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	PN (bar)	Weight (kg)
WB242005	20mm x 0.5"	68	36	140	40	79	43	20	0.550
WB242505	25mm x 0.5"	68	42	140	40	79	45	20	0.570

INTEGRATED WALL BRACKET 2WAY With MINI BALL VALVE

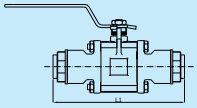
Design Standard : ASME B 31.1/3
MOC:- Aluminium with Engineering Plastic



PART NO.	SIZE	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	PN (bar)	Weight (kg)
WB242005MB05	20mm x 0.5"	68	36	140	40	79	43	20	0.550
WB242505MB05	25mm x 0.5"	68	42	140	40	79	45	20	0.570

3 Piece INLINE BALL VALVE

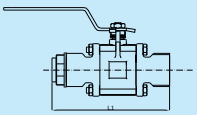
Design Standard : ASME B 31.1/3



PART NO.	SIZE (mm)	PN (bar)	L1(mm)	Weight (kg)
BF242000	20	20	135	1
BF242500	25	20	168	2.1
BF243200	32	20	199	2.8
BF244000	40	20	202	3.2
BF245000	50	20	204	4.5
BF246300	63	20	224	7.37

3 Piece INLINE MALE BALL VALVE

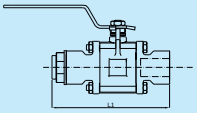
Design Standard : ASME B 31.1/3



PART NO.	SIZE (mm)	PN (bar)	L1	Weight (Kg)
BF24M2007	20	20	135	0.8
BF24M2510	25	20	168	1.6
BF24M3212	32	20	199	2.1
BF24M4015	40	20	202	3
BF24M5020	50	20	204	4
BF24M6325	63	20	224	7.37

3 Piece INLINE FEMALE BALL VALVE

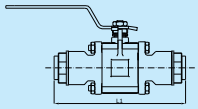
Design Standard : ASME B 31.1/3



PART NO.	SIZE (mm)	PN (bar)	L1	Weight (Kg)
BF24F2007	20	20	135	0.8
BF24F2510	25	20	168	1.6
BF24F3212	32	20	199	2.1
BF24F4015	40	20	202	3
BF24F5020	50	20	204	4
BF24F6325	63	20	224	7.37

3 Piece INLINE BALL VALVE

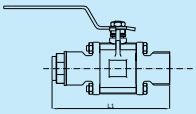
XX:- SS304:-02, SS316:-03
Design Standard: ASME B 31.1/3



PART NO.	SIZE	D1(mm)	L1(mm)	PN (bar)	Weight (kg)
BFXX2000	20	20	135	20	0.584
BFXX2500	25	25	168	20	1.021
BFXX3200	32	32	199	20	1.467
BFXX4000	40	40	202	20	0.738
BFXX5000	50	50	204	20	3.599
BFXX6300	63	63	224	20	5.196

3 Piece INLINE MALE BALL VALVE

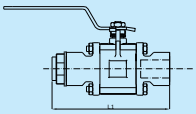
XX:- SS304:-02, SS316:-03
Design Standard: ASME B 31.1/3



PART NO.	SIZE (mm)	PN (bar)	L1	Weight (Kg)
BFXXM2007	20	20	135	0.8
BFXXM2510	25	20	168	1.6
BFXXM3212	32	20	199	2.1
BFXXM4015	40	20	202	3
BFXXM5020	50	20	204	4
BFXXM6325	63	20	224	7.37

3 Piece INLINE FEMALE BALL VALVE

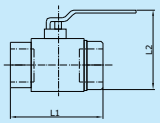
XX:- SS304:-02, SS316:-03
Design Standard: ASME B 31.1/3



PART NO.	SIZE (mm)	PN (bar)	L1	Weight (Kg)
BFXXF2007	20	20	135	0.8
BFXXF2510	25	20	168	1.6
BFXXF3212	32	20	199	2.1
BFXXF4015	40	20	202	3
BFXXF5020	50	20	204	4
BFXXF6325	63	20	224	7.37

FEMALE THREADED INLINE BALL VALVE (Brass)

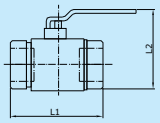
Design Standard : ASME B 31.1/3



PART NO.	SIZE (mm)	PN (bar)	L1	L2	Weight (Kg)
INBVF2007	20	20	75	70	0.35
INBVF2510	25	20	85	75	0.5

INLINE BALL VALVE (Brass)

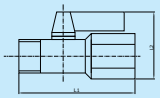
Design Standard : ASME B 31.1/3



PART NO.	SIZE (mm)	PN (bar)	L1	L2	Weight (Kg)
INBV20	20	20	90	70	0.35
INBV25	25	20	100	75	0.5

MINI BALL VALVE (Brass)

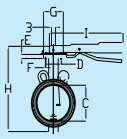
Design Standard : ASME B 31.1/3



PART NO.	SIZE	PN (bar)	L1	L2	Weight (Kg)
MBVMF050	½"	20	48	44	0.2

BUTTERFLY VALVE (CI)

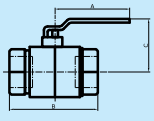
Design Standard : ASME B 31.1/3



PART NO.	SIZE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	PN (bar)	Weight (kg)
80-83-22-23-EM-150#	3"	46	15	81	50	17	7	65	255	195	16	3.500
100-83-22-23-EM-150#	4"	52	15	103	50	17	7	65	284	195	16	4.750
150-83-22-23-EM-150#	6"	56	19	153	70	17	9	90	358	320	16	9.150
200-83-22-23-EM-150#	8"	60	19	201	70	97	9	90	421	320	16	16.00

BALL VALVE

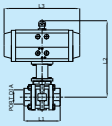
Design Standard : ASME B 31.1/3



PART NO.	SIZE	A (mm)	B (mm)	C (mm)	PN (bar)	Weight (kg)
BV110200	1/4"	90	38	48	16	0.100
BV110500	½"	90	46	58	16	0.150
BV110700	3/4"	90	52	65	16	0.213
BV111000	1"	106	60	69	16	0.318
BV111200	1 1/4"	110	62	80	16	0.480
BV111500	1 1/2"	148	83	92	16	0.680
BV112000	2"	148	89	110	16	1.800
BV112500	2 1/2"	217	110	132	16	2.206

Screwed End Ball Valve With Actuator

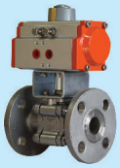
Design Standard : ASME B 31.1/3

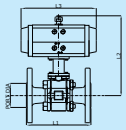


PART NO.	Size	Port Dia	L1	L2	L3	Weight (kg)
BSXX2045	3/4"	21	165	61	172	1.7
BSXX2554	1"	26	168	65	172	2.3
BSXX3262	1 1/4"	32	190	70	222	3.3
BSXX4074	1 1/2"	38	216	70	222	5.5
BSXX5088	2"	50	241	70	222	7.8
BSXX6307	2 1/2"	64	284	185	400	9

Flanged End Ball Valve With Actuator

Design Standard : ASME B 31.1/3





PART NO.	Size	Port Dia	L1	L2	L3	Weight (kg)
FEXX2045	3/4"	21	165	161	135	1.7
FEXX2554	1"	26	168	165	135	2.3
FEXX3262	1 1/4"	32	190	170	135	3.3
FEXX4074	1 1/2"	38	216	170	135	5.5
FEXX5088	2"	50	241	170	170	7.8
FEXX6307	2 1/2"	64	284	185	170	9

3 Piece Inline Pneumatic Ball Valve

Design Standard : ASME B 31.1/3

PART NO.	Size	Port Dia	L1	L2	L3	Weight (kg)
BSXX2045DA	3/4"	21	165	161	135	1.7
BSXX2554DA	1"	26	168	165	135	2.3
BSXX3262DA	1 1/4"	32	190	170	135	3.3
BSXX4074DA	1 1/2"	38	216	170	135	5.5
BSXX5088DA	2"	50	241	170	170	7.8
BSXX6307DA	2 1/2"	64	284	185	170	9

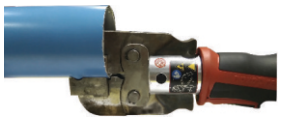
3 Piece Screwed Pneumatic Ball Valve

Design Standard : ASME B 31.1/3

PART NO.	Size	Port Dia	L1	L2	L3	Weight (kg)
SSXX2045	3/4"	14	70.5	64.8	151	0.8
SSXX2554	1"	20	94	74	170	1.6
SSXX3262	1 1/4"	25	107.8	79	170	2.1
SSXX4074	1 1/2"	32	115.2	102	205	3
SSXX5088	2"	38	127.5	107	205	4
SSXX6307	2 1/2"	50	158	118	205	7.37

CRIMPING JAWS

CJ13



PART NO.	SIZE	Weight
CJ133000	3″	
CJ134100	4″	
CJ136000	6″	
CJ138000	8″	

CAP OPENING TOOL

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

TUBE CUTTER

PART NO.	SIZE	Weight
TC110100	20-63mm	

DEBURING TOOL

PART NO.	SIZE	Weight
DB110000	20mm to 8″	

AIR GUN

PART NO.	SIZE	Weight
AG110200		

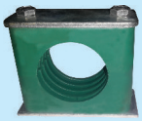
CRIMPING MACHINE

PART NO.	SIZE	Weight
CM130000	3″ to 8″	

CHAMPERING TOOL

PART NO.	SIZE	Weight
CT110100	20-63mm	

CLIP



PART NO.	SIZE	Weight
CSPP2000	20	
CSPP2500	25	
CSPP3200	32	
CSPP4000	40	
CSPP5000	50	
CSPP6300	63	

Opening Clip

PART NO.	SIZE	Weight
OC132000	20	
OC132500	25	
OC133200	32	
OC134000	40	
OC135000	50	
OC136300	63	

CLIPS

PART NO.	SIZE	Weight
CL112000	20	
CL112500	25	
CL113200	32	
CL114000	40	
CL115000	50	
CL116300	63	

MALE SOCKET

PART NO.	SIZE	Weight
SM110200	1/4″	
SM110300	3/8″	
SM110500	1/2″	
SM110700	3/4″	
SM110000	1″	

MALE PLUG

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

FEMALE SOCKET

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

FEMALE PLUG

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

HOSE SOCKET

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

NUT SOCKET

PART NO.	SIZE	Weight
SN110800	08	
SN111000	10	
SN111200	12	

NUT PLUG

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

HOUSE PLUG

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

FR

FR11

FRL

FL11

PART NO.	SIZE	PART NO.	SIZE
FR110200	1/4″	FL110200	1/4″
FR110500	1/2″	FL110500	1/2″
FR110700	3/4″	FL110700	3/4″
FR111000	1″	FL111000	1″

POLYURETHENE TUBE PT11

MOC: Polyurethene available in 1000 mtr's

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

PART NO.	Ø D	Weight
PT110401*	04	
PT110601*	06	
PT110801*	08	
PT111001*	10	
PT111201*	12	

RECOIL HOSE RH11

MOC: Polyurethene available in 1000 mtr's

PART NO.	Ø D	Weight
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).

EXPANSION HOSE EH11

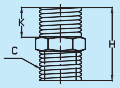
Available in 1,2 & 3 mtr's for 1 mtr's add .1(Ex:EH112505.1)

PART NO.	Ø D	SIZE	PART NO.	Ø D	SIZE
EH112505*	25	½"	EH114012*	40	1 ¼"
EH112507*	25	3/4"	EH114015*	40	1 ½"
EH112510*	25	1"	EH115015*	50	1 ½"
EH113210*	32	1"	EH115020*	50	2"
EH113212*	32	1 ¼"	EH116320*	63	2"
EH114010*	40	1"	EH116325*	63	2 ½"

BUSH WITH O RING GASKET BS13

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

HEX NIPPLE HN11

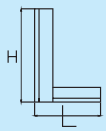


PART NO.	Ø C	K	H	Weight
HN110500	½"	15	36	
HN110700	3/4"	16	38	
HN111000	1"	16	48	
HN111200	1 1/4"	23	58	
HN111500	1 1/2"	24	63	
HN112000	2"	28	81	

CAP WITH RETAINER RINGS BO13

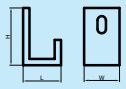
PART NO.	Ø	Weight
BO132000	20	
BO132500	25	
BO133200	32	
BO134000	40	
BO135000	50	
BO136300	63	

L ANGLE LA11



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

U CLAMP UC11

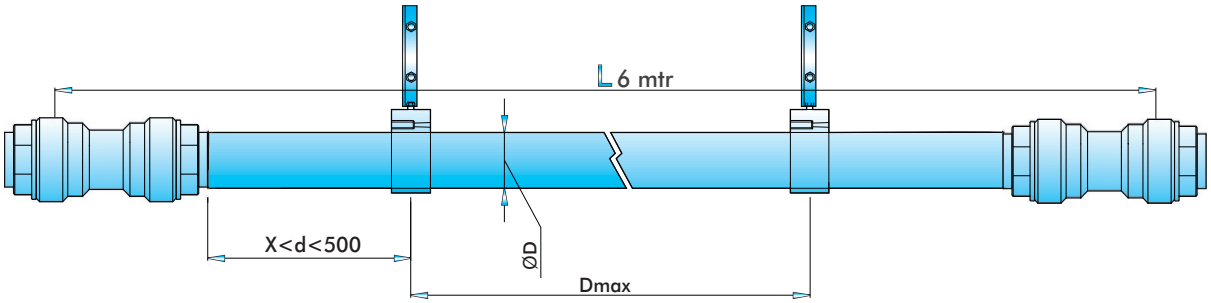


PART NO.	H	L	W	Weight
UC110000	57	26	21	

Q

Quickair™ Aliminium Installation

Before 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.

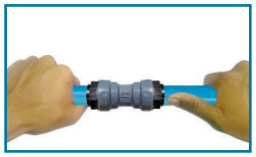


d-Distance between fitting and clip
Dmax-Distance between two clips(2 mtr)

Fixing The Tube

Step 1: Cutting the Tubes

Step 2: Chamfering the Tubes

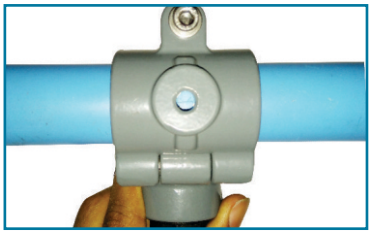


Step 3: Inserting the tubes Info fitting

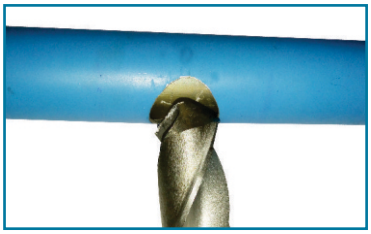
Step 4: Inserting the Tubes info fitting

Fixing The Drop

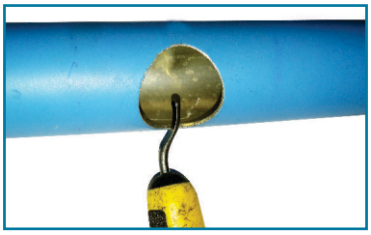
Step 1:
Positioning the Droplet on the tube



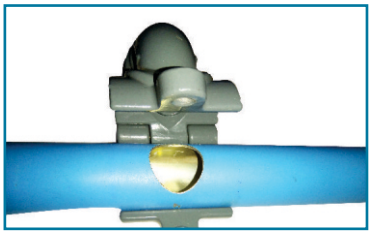
Step 2:
Marking the position Of the hole on tube



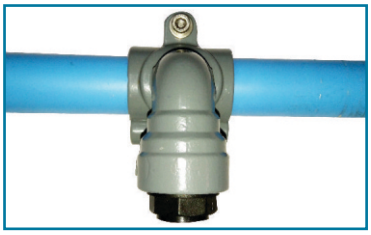
Step 3:
Drilling the Required Hole on the tube



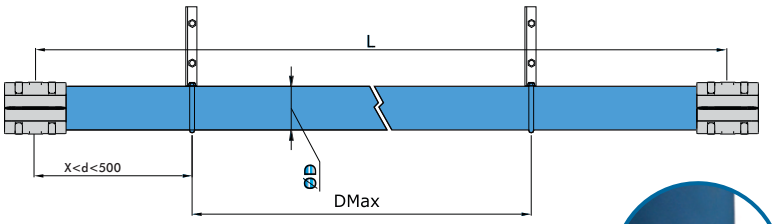
Step 4:
Chamfering the hole



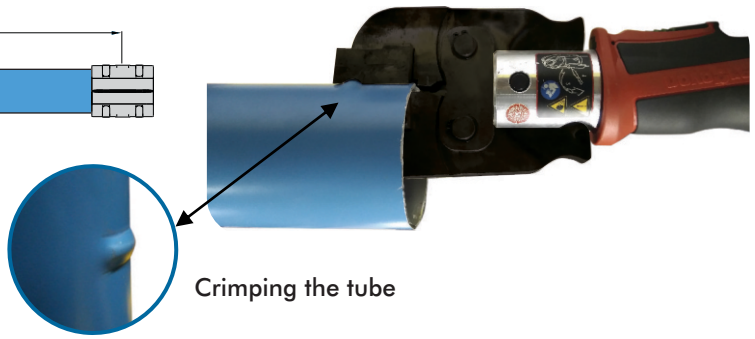
Step 5:
Aligning the Droplet to the hole



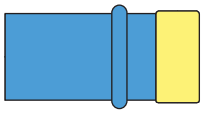
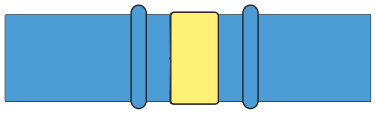
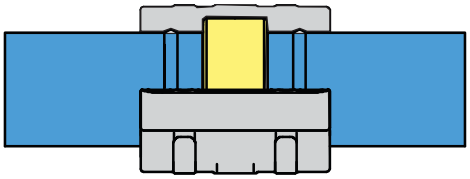
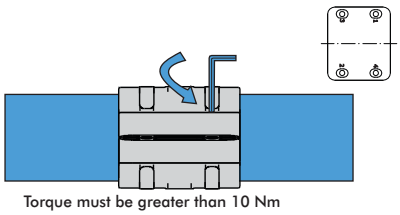
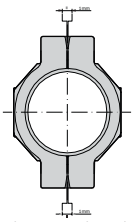
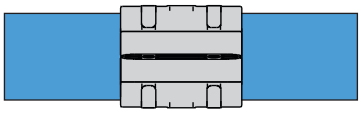
Step 6:
Fixing the Droplet on the tube

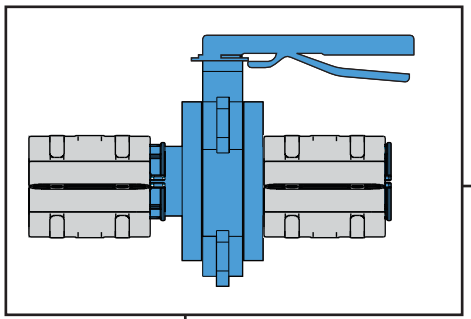


d-Distance between fitting and clip.
ØD- Diameter of the pipe
Dmax-Distance between two clips(1m)

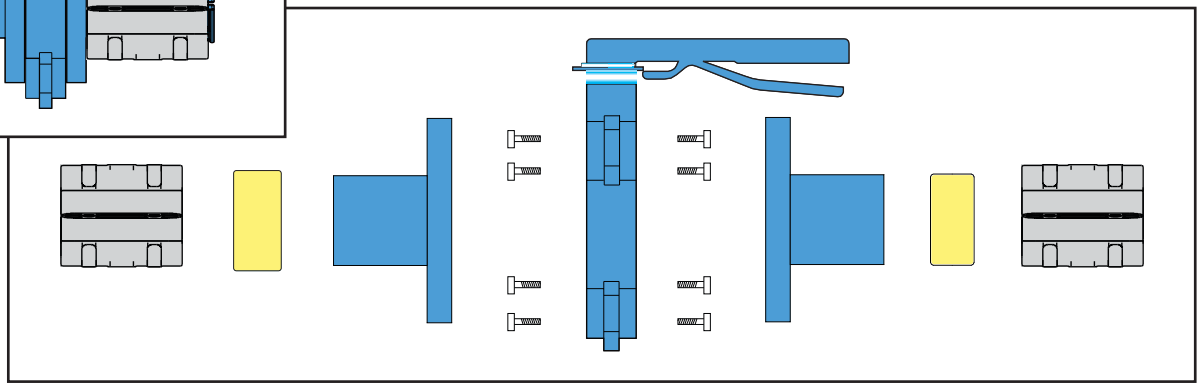


Crimping the tube

 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.	 Torque must be greater than 10 Nm 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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