

Flowell Pneumatics Pvt. Ltd. Product Catalogue

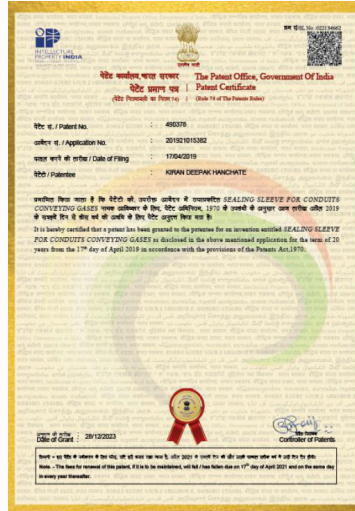
Welcome to Flowell Pneumatics, Your Trusted Partner
In Compressed Air Piping Solutions.



CERTIFICATIONS



PRESSURE RATING TESTED BY ARAI



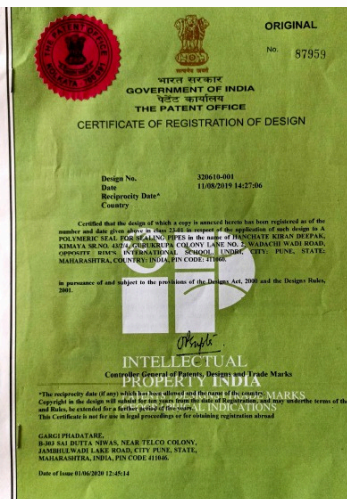
PATENT



ISO 9001:2015



FIRE RESISTANT



DESIGN REGISTRATION



CE CONFORMITY



FPPL Products Meet The Requirements of ASME B31.3 Standard



10 Years Warranty For GEM / ACE / ACE+ Ranges

FLOWELL PNEUMATICS PVT. LTD.



Flowell Pneumatics Pvt. Ltd. offers a comprehensive compressed air piping solution that ensures superior operational efficiency and suitability for a wide range of industrial applications, all at competitive prices.

Our piping system stands out with its reliability, durability, and rigidity, providing a corrosion-free, modular design that meets the highest industrial standards. With a 10-year warranty, Flowell guarantees long-lasting performance.

The solid metal construction of our piping system is designed for ease of installation, making it an ideal solution for compressed air, vacuum, and inert gas distribution. It supports operating pressures up to 16 bar and -0.87 bar in a temperature range of -20°C to 75°C.

The extruded aluminium pipe (6063-T6) and SS-304/316L seamless pipes feature a smooth interior surface that reduces friction, minimizes pressure loss, and ensures laminar flow. With full-bore fittings and leak-free connections, our system prevents air wastage and maximizes efficiency.

Flowell Pneumatics introduces three advanced ranges of compressed air and inert gas piping systems:

GEM – Aluminum pipes with SS 304 fittings for general industrial applications.

ACE – SS 316 pipes with SS 316 fittings for food and beverage industries.

ACE Plus – SS 316+ pipes and fittings designed specifically for pharmaceutical applications.

Flowell's solutions deliver the perfect balance of strength, simplicity, and performance for your industry needs.

INDEX

Compressed Air Piping Solution

Sr. No.	CONTENT	Pg.No.
1.	CERTIFICATES	02
2.	OUR SERVICES	03
3.	WHY CHOOSE US	05
4.	GEM SERIES	06
5.	GEM SERIES CLAMP FIT RANGE	08
6.	ACE SERIES	10
7.	ACE SERIES CLAMP FIT RANGE	11
8.	ACE + SERIES	14
9.	ACE + SERIES CLAMP FIT RANGE	18
10.	STANDARD ACCESSORIES	19
11.	INSTALLATION GUIDE	20
12.	COUPLING ASSEMBLY	21
13.	ELBOW ASSEMBLY	22
14.	SADDLE BRANCH ASSEMBLY	
15.	TEE ASSEMBLY	
16.	ELBOW ASSEMBLY	23
17.	SUPPORTS INSTALLATION	
18.	Sizing Chart	24

OUR SERVICES



We specialize in customising and installing aluminium and stainless steel piping systems for diverse industries. Our services include pipe fittings, turnkey solutions, integration with global brands, and advanced monitoring systems for optimal performance.

01

Aluminum Piping Systems

For general industries.

02

Design & Installation

Tailored piping solutions

03

SS 304 Piping Systems

For food and beverage

04

SS 316L Piping Systems

Pharmaceutical applications

05

Compatibility

Works with global brands

06

Pipe Fittings

GEM Series, ACE Series, ACE Plus Series

07

Turnkey Solutions

Complete system packages.

08

Monitoring Systems

Flowmeters and dew-point meters.

WHY CHOOSE US?

Choosing Flowell Pneumatics is a smart decision because, with our extensive experience in compressed air piping and fittings, we provide innovative solutions that enhance efficiency and reliability. Our products simplify operations and contribute to the success of industries across the nation.



Unmatched Quality

Our aluminium air pipes offer superior quality, performance, and durability.



Expert Consultation

Our expert team helps you choose the perfect piping system for your needs.



Product Range

We provide aluminum pipes, steel systems, and fittings for industrial use.



Tailored Solutions

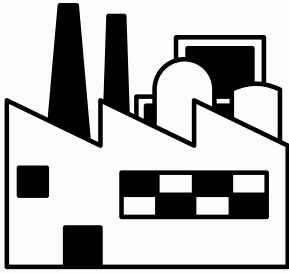
Efficient and reliable compressed air piping systems.



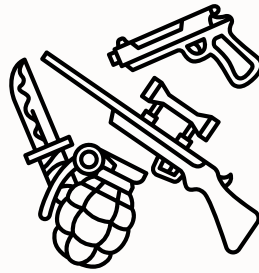
Timely Delivery

On-time delivery of all products to ensure your projects stay on schedule.

GENERAL INDUSTRIAL APPLICATION



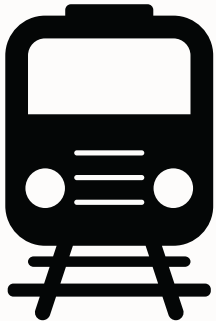
TEXTILES INDUSTRIES



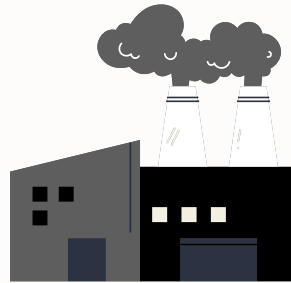
DEFENCE



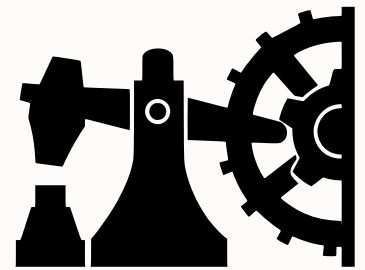
AEROSPACE



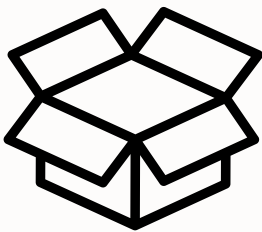
RAILWAYS



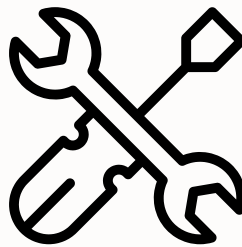
THERMAL POWER



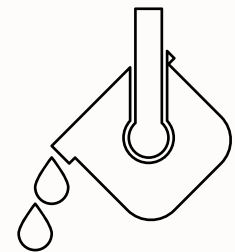
MACHINE SHOP



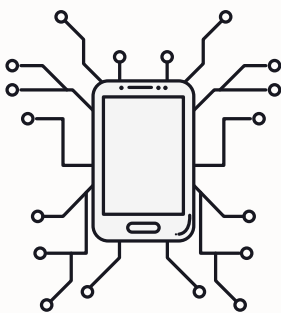
PACKAGING



OEM



FOUNDRY



ELECTRONICS



AUTOMOBILE



PAPER MILL

GEM SERIES ALUMINIUM COMPRESSED AIR PIPING

NPS	½"	1"	1 ½"	2"	2 ½"	3"	4"
Size	φ21	φ33	φ48	φ60	φ73	φ90	φ114



Technical Characteristics For CEM Series

- **Diameters (in mm)**

21-33-48-60-73-90-114

- **Max working temp**

-20°C to 75°C

- **Max working pressure**

16 bar: For sizes 21, 33, 48, 60

13 bar: For sizes 73, 90, 114

- **Vacuum level**

-0.87 bar

- **Pipe material**

Aluminium Alloy 6063-T6, Conforming to EN 573-3, EN 755-2, EN 755-8

- **Pipe fittings material**

SS 304

- **Sealing material**

NBR

- **Standard**

FLOWELL GEM Series products meet the requirements of ASME B31.3

- **Standard colour and Coating of Pipe**

RAL 5012, Externally Polyester Powdered and internally chromate

- **Compatibility**

It is compatible with all compressor oil / oil-free compressed air, industrial vacuum, nitrogen, and inert gases.

GEM SERIES CLAMP FIT RANGE



Aluminium Pipe

FPP-A-21-04 / 33-5.7 / 48-5.7 / 60-5.7 / 73-5.7 / 90-5.7 / 114-5.7



Coupling-SS 304

FPC-4-21 / 33 / 48 / 60 / 73 / 90 / 114



Bend – SS 304

FPBC-4-21 / 33



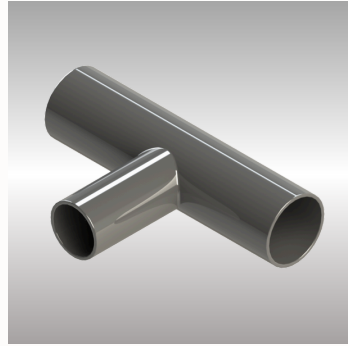
Elbow – SS 304

FPEC-4-48 / 60 / 73 / 90 / 114



Tee – SS 304

FPTC-4-33 / 48 / 60
/ 73 / 90 / 114



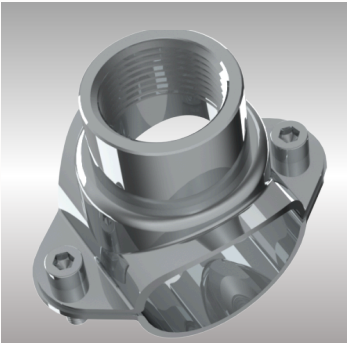
**Reducing Tee –
SS 304**

FPRTC-4-114X90 /
90X73 / 73X60 /
60X48



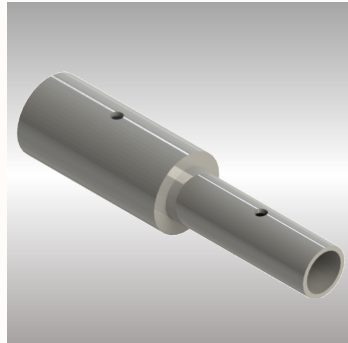
**End Cap – SS
304**

FPECC-4-21 / 33 / 48
/ 60 / 73 / 90 / 114



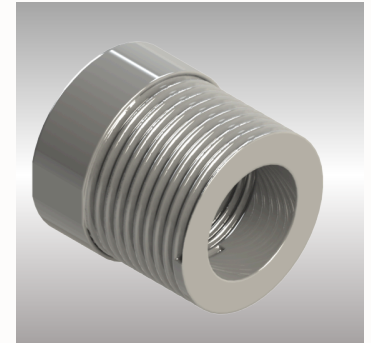
**Saddle Branch
– SS 304**

FPSB-4-33X21
48X33 / 60X33
73X48 / 90X60
114X73



**Line Reducer –
Aluminium**

FPLRC-A-33X21
48X33 / 60X48
60X33 / 73X60
73X48 / 90X73
90X60 / 90X48
114X90 / 114X73
114X60 / 114X48



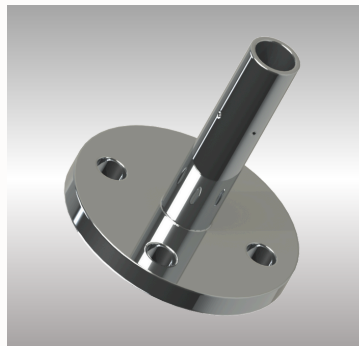
**Reducing Bush
Male & Female –
Aluminium**

FPRB-A-27X21
33X21 / 48X33
48X21 / 60X48
60X33 / 60X21
73X60 / 73X48
73X33 / 73X21



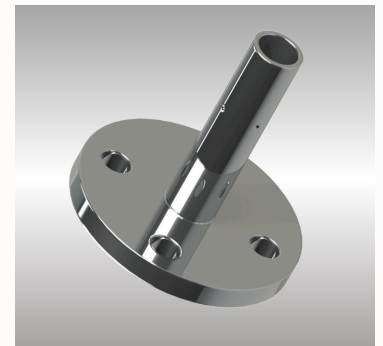
**Double Nipple –
SS 304**

FPDN-4-21 / 33 / 48 /
60



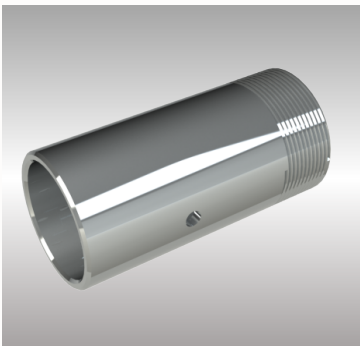
**F Table Flange
Adaptor - SS 304**

FPFAC-4-33 / 48
/ 60 / 73 / 90 / 114



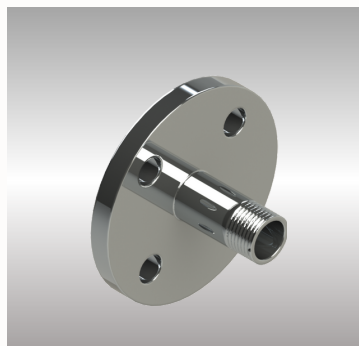
**F Table
Reducing Flange
Adaptor - SS 304**

FPRFAC-4-33X21
48X33,21/60X48,33,21
73X60,48,33/90X73,6
0,48/114X90,73,60



**Male Adapter –
SS 304**

FPMAC-4-21/ 33/ 48 /
60 / 73



**F Table Threaded
Flange Adaptor -
SS 304**

FPTFA-4-33 / 40
/60 / 73 / 90 / 114



**F Table Reducing
Threaded Flange
Adaptor - SS 304**

FPTRFA-4-33X21
48X33,21/60X48,33,21
73X60,48,33/90X73,6
0,48/114X90,73,60

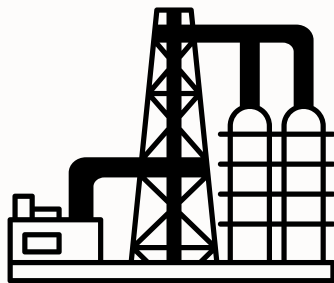
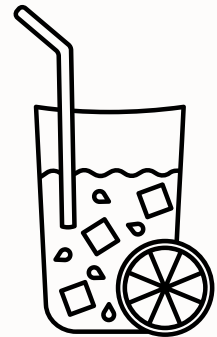


FOOD AND BEVERAGE APPLICATION



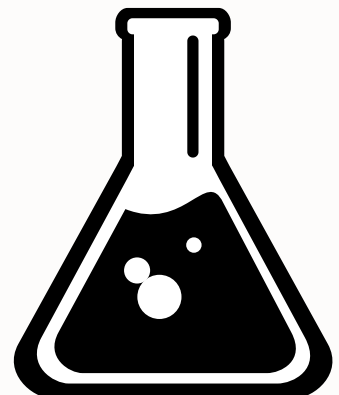
AEROSPACE

BEVERAGE



OIL & GAS

CHEMICAL



SS 304 COMPRESSED AIR PIPING FOR FOOD AND BEVERAGE APPLICATION

NPS	½"	1"	1 ½"	2"	2 ½"	3"	4"
Size	φ21	φ33	φ48	φ60	φ73	φ90	φ114



TECHNICAL CHARACTERISTICS FOR ACE SERIES

- **Diameters (in mm)**

21-33-48-60-73-90-114

- **Max working temp**

-20°C to 75°C

- **Max working pressure**

16 bar : For sizes 21, 33, 48, 60

13 bar : For sizes 73, 90, 114

- **Vacuum level**

-0.87 bar

- **Pipe material**

SS 304 ERW/Seamless Pipes, Conforming to EN 10217-7, EN 10216-1

- **Pipe fittings material**

SS 304

- **Sealing material**

NBR / Silicone

- **Standard**

FLOWELL ACE Series products meet the requirements of ASME B31.3

- **Standard Finish of Pipe**

For Air - Matte Finish

For GAS - Matte Finish with respective standard gas colour radium lining

- **Compatibility**

Compatible with all Compressor oil / Oil free compressed air, Industrial vacuum, Nitrogen and Inert gases.

ACE SERIES CLAMP FIT RANGE



SS 304 - Seamless Pipe

FPP-4-21-5.7 / 33-5.7 / 48-5.7 / 60-5.7 / 73-5.7 / 90-5.7 / 114-5.7



Coupling-SS 304

FPC-4-21 / 33 / 48 / 60 / 73 / 90 / 114



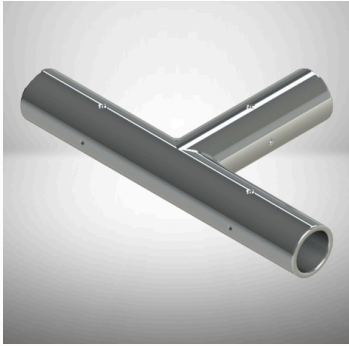
Bend – SS 304

FPBC-4-21 / 33



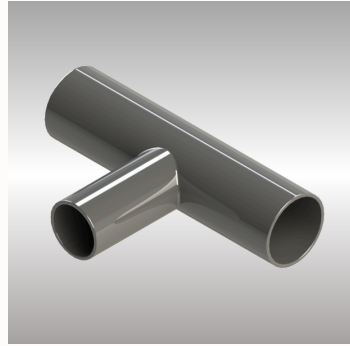
Elbow – SS 304

FPEC-4-48 / 60 / 73 / 90 / 114



Tee – SS 304

FPTC-4-33 / 48 / 60
/ 73 / 90 / 114



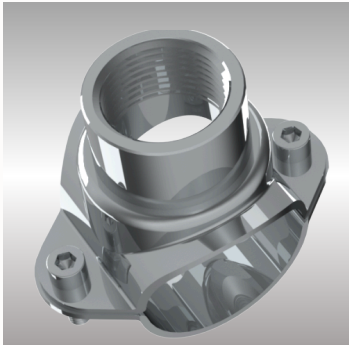
**Reducing Tee –
SS 304**

FPRTC-4-114X90 /
90X73 / 73X60 /
60X48



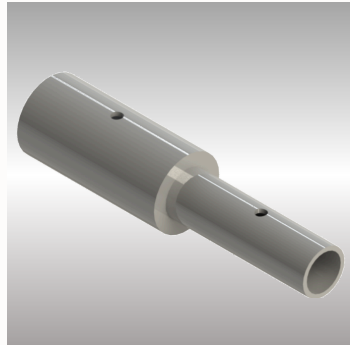
**End Cap – SS
304**

FPECC-4-21 / 33 / 48
/ 60 / 73 / 90 / 114



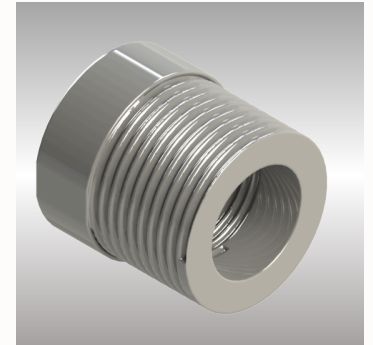
**Saddle Branch
– SS 304**

FPSB-4-33X21
48X33 / 60X33
73X48 / 90X60
114X73



**Line Reducer –
SS 304**

FPLRC-4-33X21
48X33 / 60X48
60X33 / 73X60
73X48 / 90X73
90X60 / 90X48
114X90 / 114X73
114X60 / 114X48



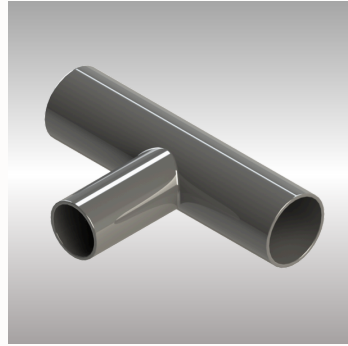
**Reducing Bush
Male & Female –
SS 304**

FPRB-4-27X21
33X21 / 48X33
48X21 / 60X48
60X33 / 60X21
73X60 / 73X48
73X33 / 73X21



Tee – SS 304

FPTC-4-33 / 48 / 60
/ 73 / 90 / 114



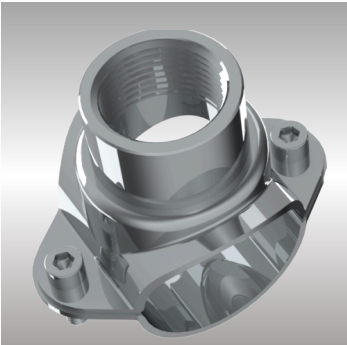
**Reducing Tee –
SS 304**

FPRTC-4-114X90 /
90X73 / 73X60 /
60X48



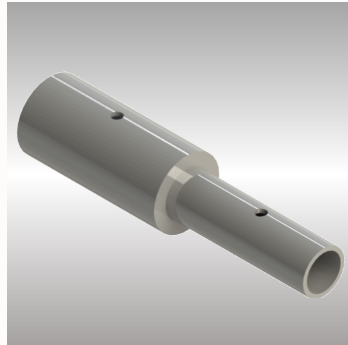
**End Cap – SS
304**

FPECC-4-21 / 33 / 48
/ 60 / 73 / 90 / 114



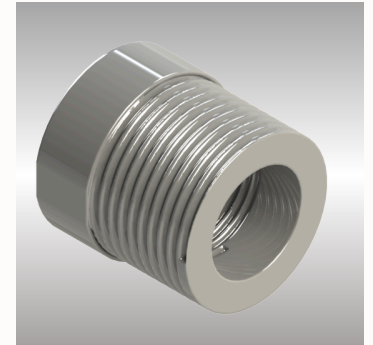
**Saddle Branch
– SS 304**

FPSB-4-33X21
48X33 / 60X33
73X48 / 90X60
114X73



**Line Reducer –
SS 304**

FPLRC-4-33X21
48X33 / 60X48
60X33 / 73X60
73X48 / 90X73
90X60 / 90X48
114X90 / 114X73
114X60 / 114X48

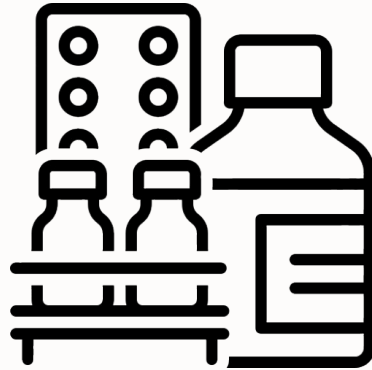


**Reducing Bush
Male & Female –
SS 304**

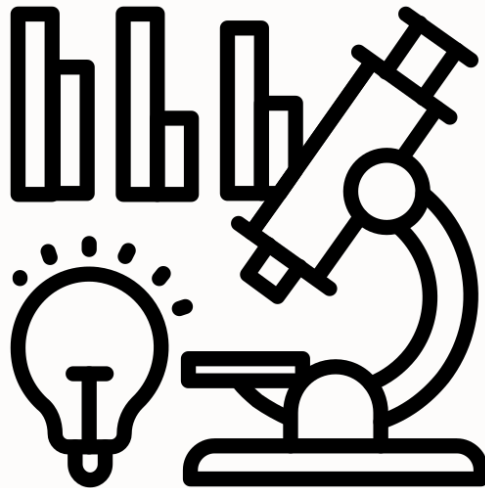
FPRB-4-27X21
33X21 / 48X33
48X21 / 60X48
60X33 / 60X21
73X60 / 73X48
73X33 / 73X21



PHARMACEUTICAL APPLICATION



PHARMACEUTICAL & BLISTER PACKAGING INDUSTRIES



RESEARCH & DEVELOPMENT LABORATORY

SS 316-L COMPRESSED AIR PIPING FOR PHARMACEUTICAL APPLICATION

NPS	½"	1"	1 ½"	2"	2 ½"	3"	4"
Size	φ21	φ33	φ48	φ60	φ73	φ90	φ114



TECHNICAL CHARACTERISTICS FOR ACE + SERIES

- **Diameters (in mm)**

21-33-48-60-73-90-114

- **Max working temp**

-20°C to 75°C

- **Max working pressure**

16 bar : For sizes 21, 33, 48, 60

13 bar : For sizes 73, 90, 114

- **Vacuum level**

-0.87 bar

- **Pipe material**

SS 304 ERW/Seamless Pipes, Conforming to EN 10217-7, EN 10216-1

- **Pipe fittings material**

SS 316 L

- **Sealing material**

NBR / Silicone

- **Standard**

FLOWELL ACE + Series products meet the requirements of ASME B31.3

- **Standard Finish of Pipe**

For Air - Matte Finish

For GAS - Matte Finish with respective standard gas colour radium lining

- **Compatibility**

Compatible with all Compressor oil / Oil free compressed air, Industrial vacuum, Nitrogen and Inert gases.

ACE+ SERIES CLAMP FIT RANGE



SS 316L - Seamless Pipe

FPP-6-21-5.7/33-5.7/48-5.7/60-5.7/73-5.7/90-5.7/114-5.7



Coupling-SS 316L

FPC-6-21 / 33 / 48 / 60 / 73 / 90 / 114



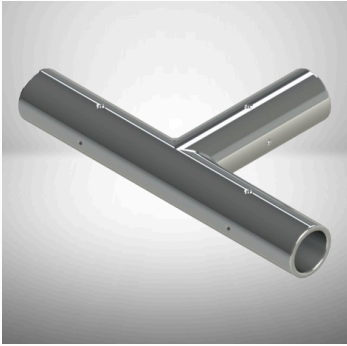
Bend-SS 316L

FPBC-6-21 / 33



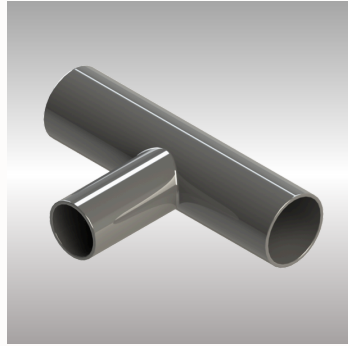
Elbow -SS 316L

FPEC-6-48 / 60 / 73 / 90 / 114



Tee - SS 316L

FPTC-6-33 / 48 / 60
/ 73 / 90 / 114



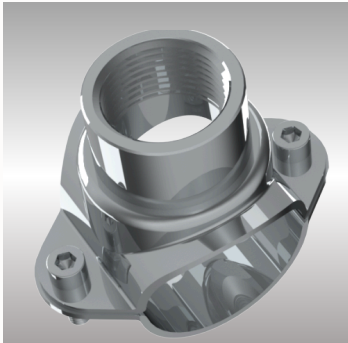
**Reducing Tee -
SS 316L**

FPRTC-6-114X90 /
90X73 / 73X60 /
60X48



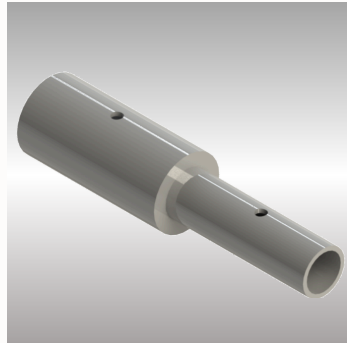
**End Cap - SS
316L**

FPECC-6-21 / 33 / 48
/ 60 / 73 / 90 / 114



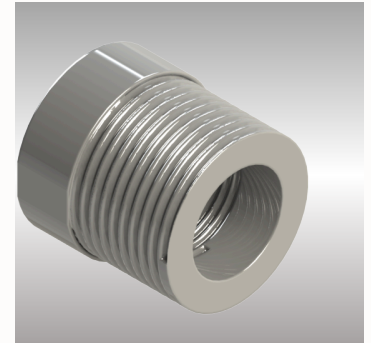
**Saddle Branch -
SS 316L**

FPSB-6-33X21
48X33 / 60X33
73X48 / 90X60
114X73



**Line Reducer -
SS 316L**

FPLRC-6-33X21
48X33 / 60X48
60X33 / 73X60
73X48 / 90X73
90X60 / 90X48
114X90 / 114X73
114X60 / 114X48



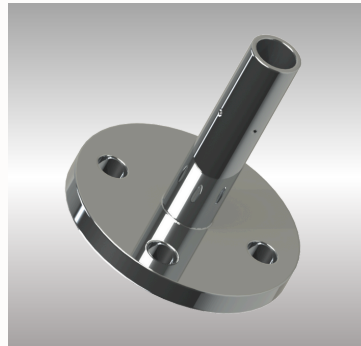
**Reducing Bush
Male & Female -
SS 316L**

FPRB-6-27X21
33X21 / 48X33
48X21 / 60X48
60X33 / 60X21
73X60 / 73X48
73X33 / 73X21



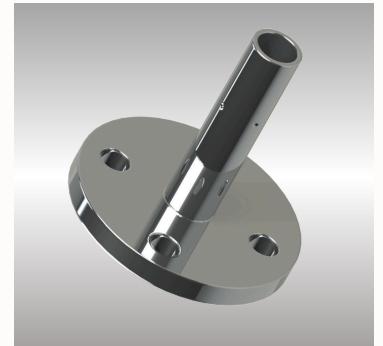
**Double Nipple -
SS 316L**

FPDN-6-21 / 33 / 48 /
60



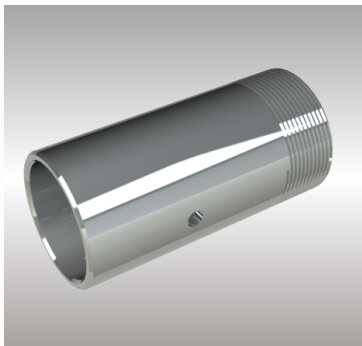
**F Table Flange
Adaptor - SS 316L**

FPFAC-6-33 / 48 / 60
/ 73 / 90 / 114



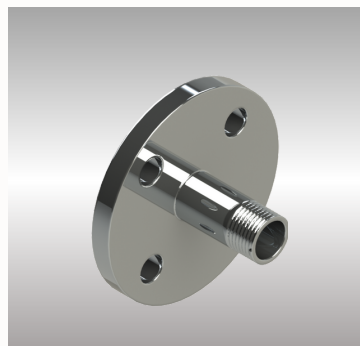
**F Table Reducing
Flange Adaptor-
SS 316L**

FPRFAC-6-33X21
48X33,21/60X48,33,21
73X60,48,33/90X73,6
0,48/114X90,73,60



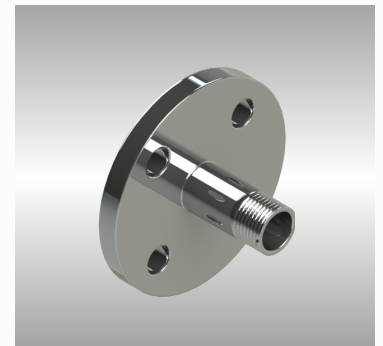
**Male Adapter -
SS 316L**

FPMAC-6-21/ 33/ 48 /
60 / 73



**F Table Threaded
Flange Adaptor -
SS 316L**

FPTFA-6-33 / 40
/60 / 73 / 90 / 114



**F Table Reducing
Threaded Flange
Adaptor- SS 316L**

FPTRFA-6-33X21
48X33,21/60X48,33,21
73X60,48,33/90X73,6
0,48/114X90,73,60

STANDARD ACCESSORIES



SS-304- One Piece Full Bore Female Threaded Ball Valve PN-16

FPBV-4-21 / 33 / 48 / 60

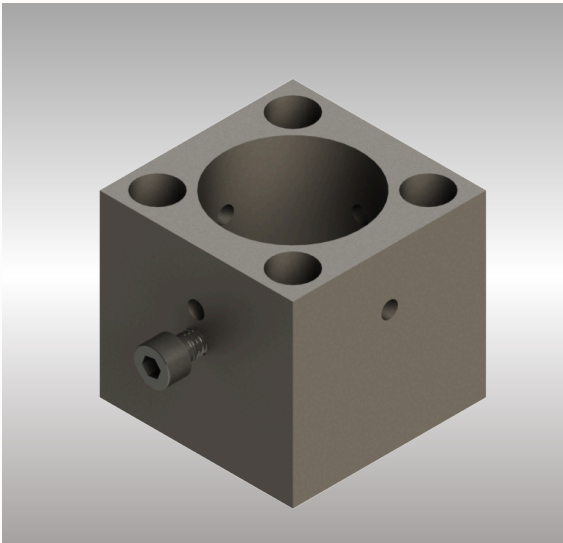
Aluminum / SS Butterfly Valve PN-16

FPBFV- 73 / 90 / 144



Set Of Drilling Fixtur

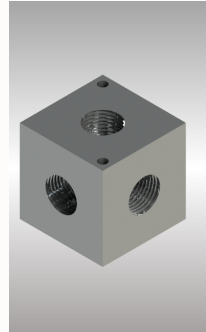
FPDF-21 / 33 / 48 / 60 / 73 / 90 / 114





Flexible R1 Hose

FPFH-21-1 / 33-1 /
48-1 / 60-1



Manifold

FPM-4-21-1-3 / 6
FPM-4-33-1-3 / 6



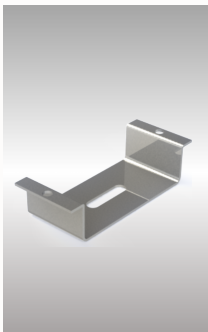
Pipe Cutter

FPPCU 65 / 125



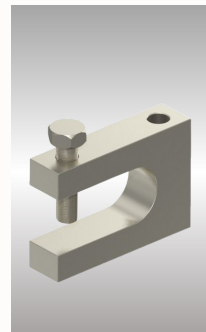
Pipe Clips

FPPC-21 / 33 / 48 /
60 / 73 / 90 / 114



Wall Mounting Bracket

FPWMB-4X2 / 6X2



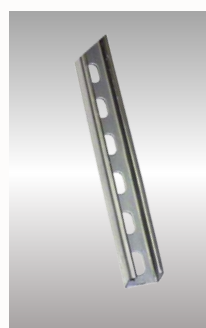
G Beam Clamp

FPGBC-20



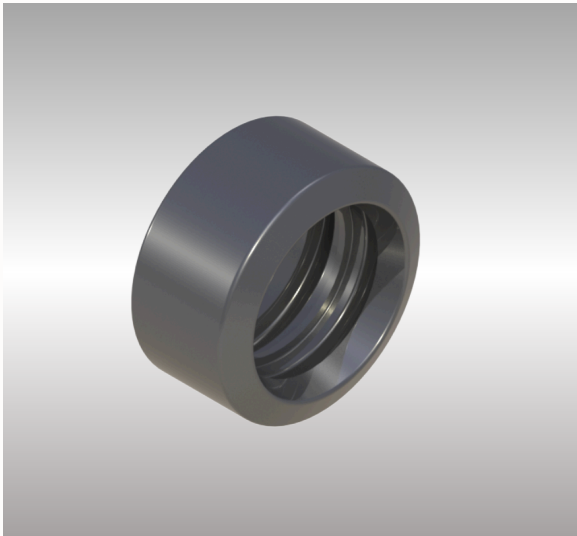
Cantilever Support For Pipe

FPCSP-200 / -250 /
500



Slotted U- Channel

FPSUC-33X1

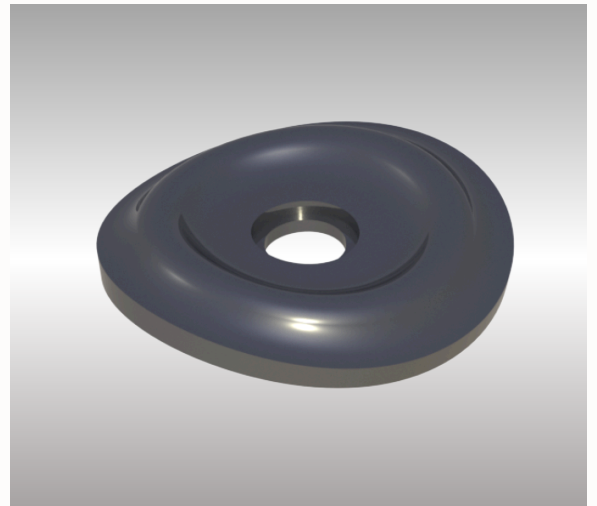


Main Seal Rubber-Coupling

FPCMSR-N-21 / 33 / 48 / 60 / 73 / 90 / 114

Flat Seal Ring

FPCFSR-N-21 / 33 / 48 / 60 / 73 / 90 / 114



Seal Ring - Saddle Branch

FPDSR-N-33X21 / 48X33 / 60X33 / 73X48 / 90X60 / 114X73

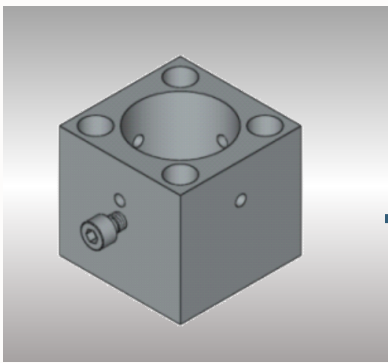
INSTALLATION GUIDE

Hole Drilling Fixture

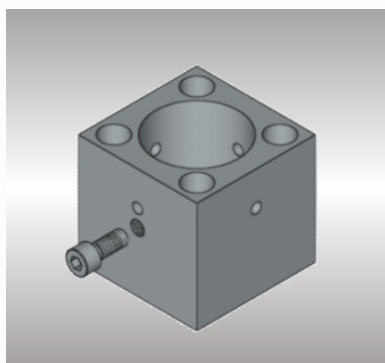
Key Features :

- The hole fixture checks for roundness and cylindricity of the pipe and fittings.
- The hole is located perfectly onto the pipes and fittings on which the couplings are going to be mounted.
- The holes are drilled using a regular drilling machine and no special tools are required.

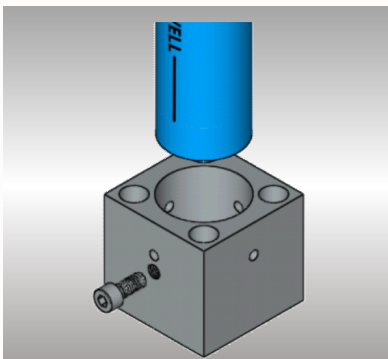
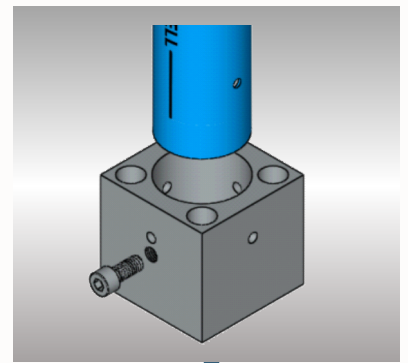
1. Hole Fixture



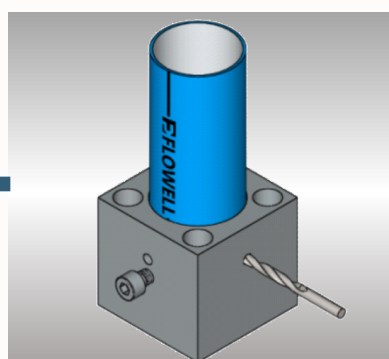
2. Loosen the bolt on the fixture.



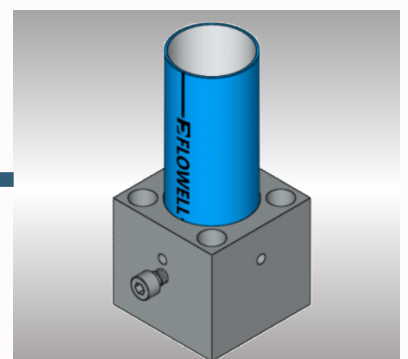
3. Insert the pipe or fitting into the fixture



6. Loosen the bolt and remove the pipe or fitting from the fixture.



5. Drill the holes on the pipe or fitting through the holes provided on the fixture using a drilling machine

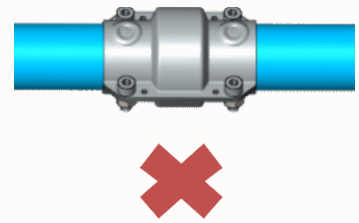
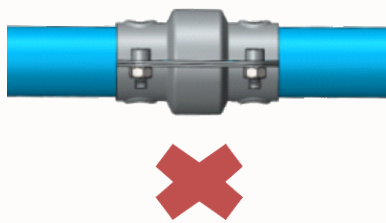
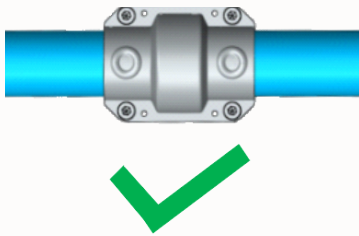


4. Tighten the bolt onto the pipe

COUPLING ASSEMBLY

Important Note :

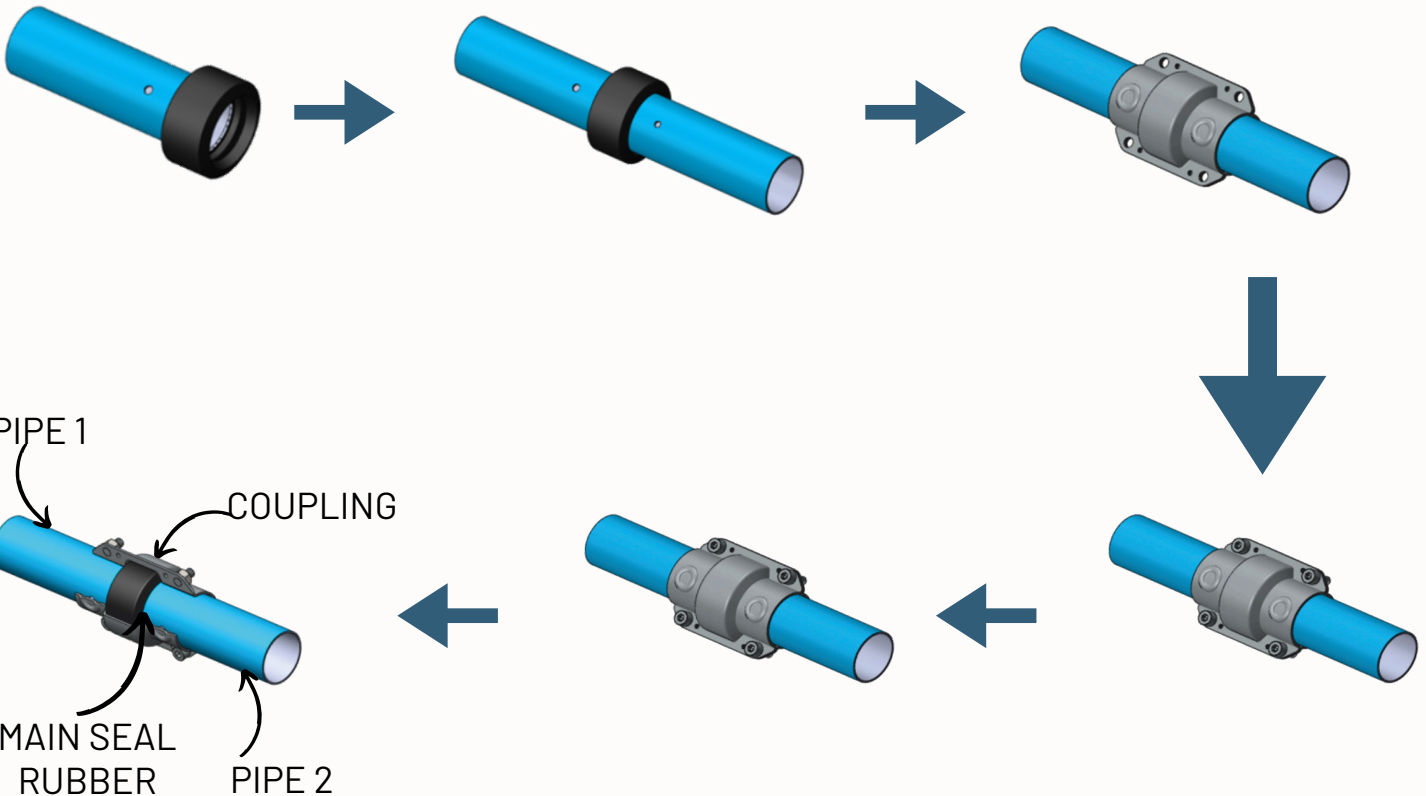
- The couplings should be clamped in upright position only.



1. Insert one end of the main seal rubber into the end of the first pipe

2. Insert second pipe from the other end of the main seal rubber.

3. Clamp the coupling on to the main seal rubber and pipes sub-assembly with the help of studs provided on the coupling and holes drilled on the pipes.



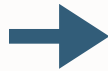
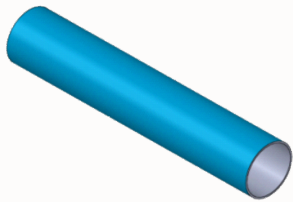
6. Sectional view of Coupling Assembly

5. Tighten the nuts onto the bolts to tightly damp the coupling on to the pipe

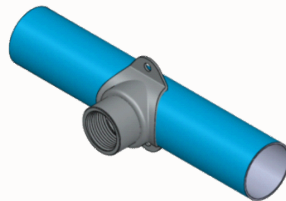
4. Insert bolts Through the holes provided on the coupling

SADDLE BRANCH ASSEMBLY

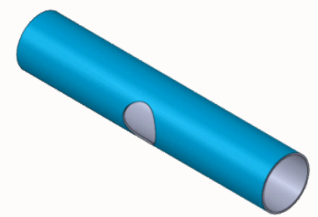
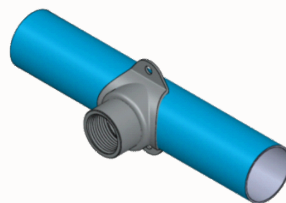
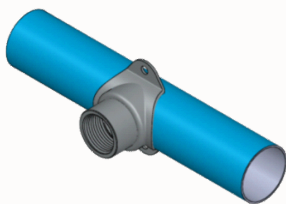
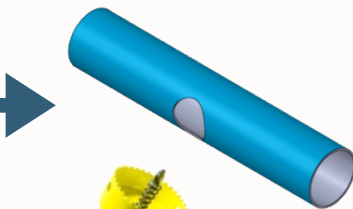
1. Locate the position where the drop is to be taken.



2. Place the front part of the saddle branch on the pipe and mark the hole on the pipe



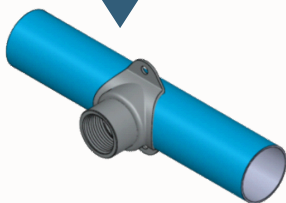
3. Cut the marked hole with the help of hole saw cutter attached to drill machine.



4. Remove burr by using deburring tool.



5. Place the front part of the saddle branch on the pipe in such a way that the hole on the pipe matches with the hole on the front part of saddle branch.



6. Place the back part of saddle branch on the pipe.

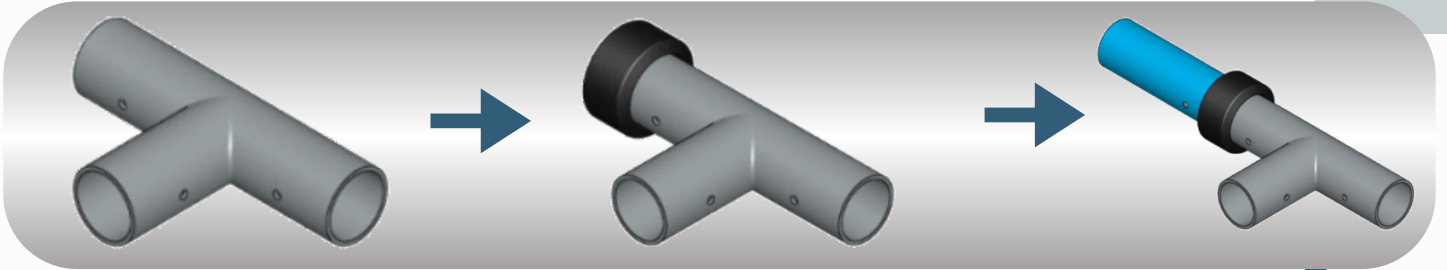
7. Insert bolts in the holes provided on the front and back parts of saddle branch and tighten the nuts to tightly clamp both the parts on to the pipe.

TEE ASSEMBLY

①

②

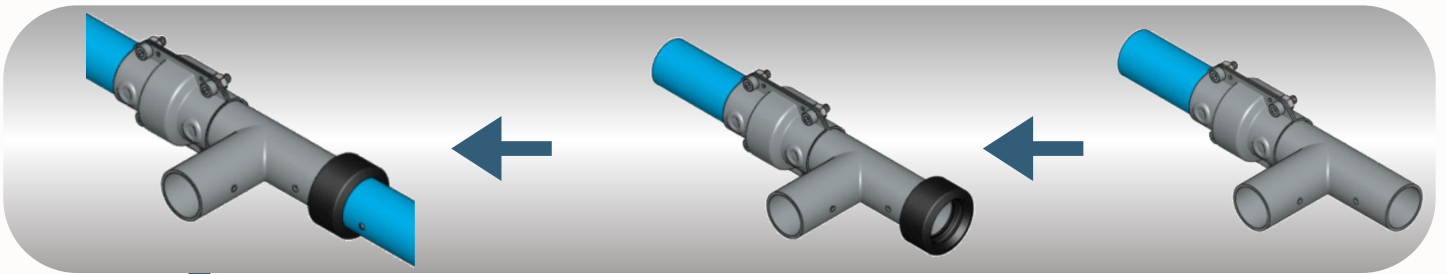
③



⑥

⑤

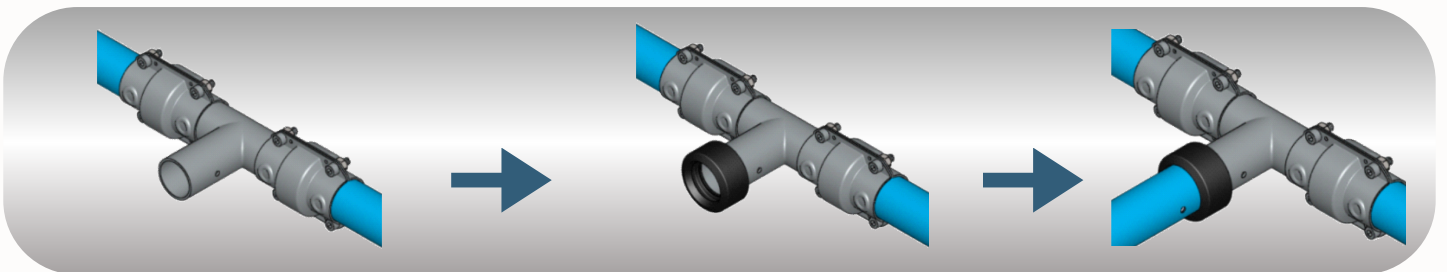
④



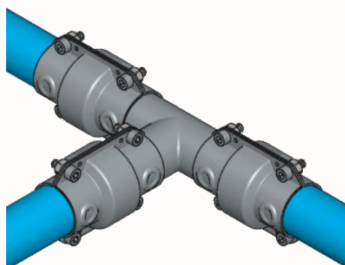
⑦

⑧

⑨



⑩

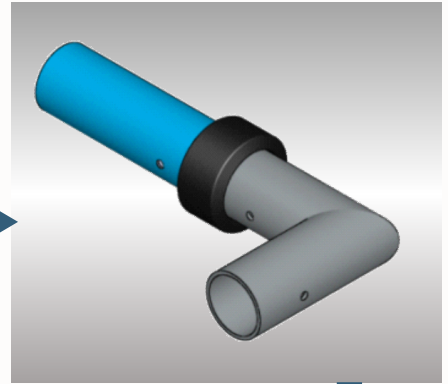
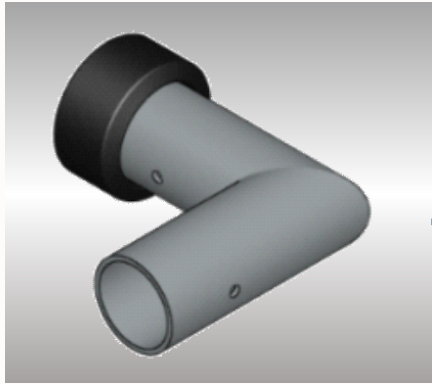
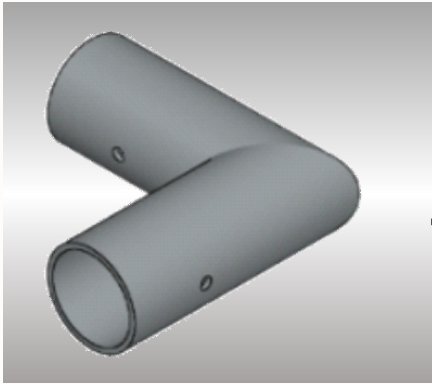


ELBOW ASSEMBLY

①

②

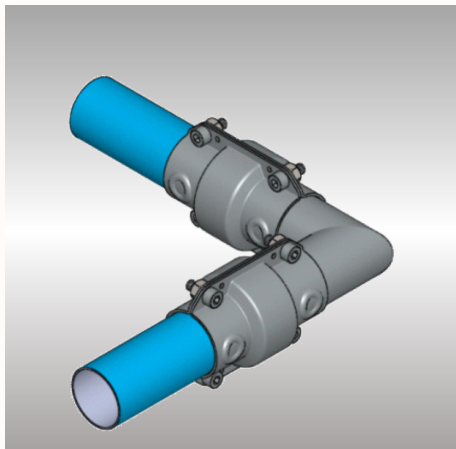
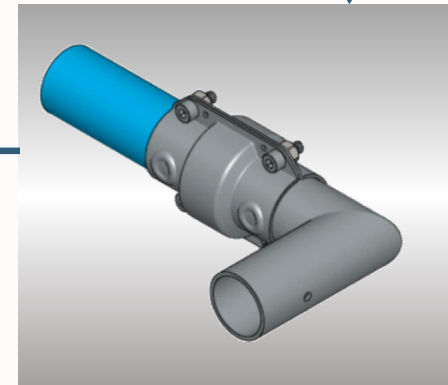
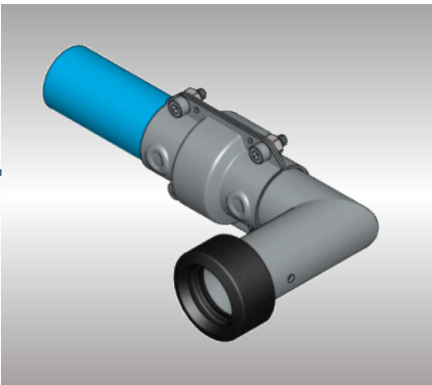
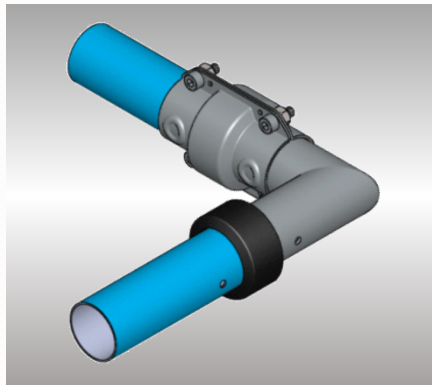
③



⑥

⑤

④



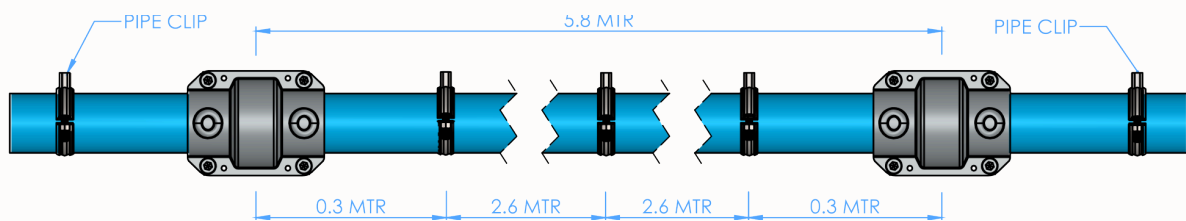
⑦

SUPPORTS INSTALLATION

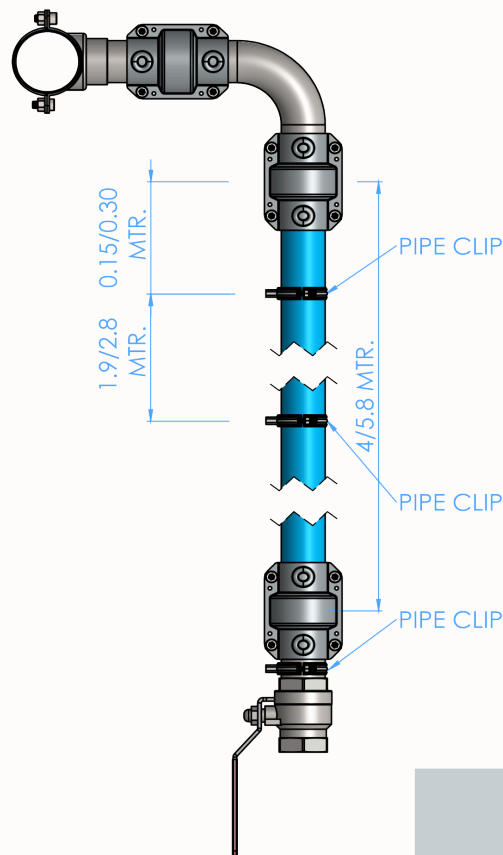
Important Note :

Support should be provided near each fitting such as ball regular tee, elbow, flange adapter, etc. to counter the weight of stainless steel.

SUPPORTS INSTALLATION FOR HEADERS & SUB - HEADERS

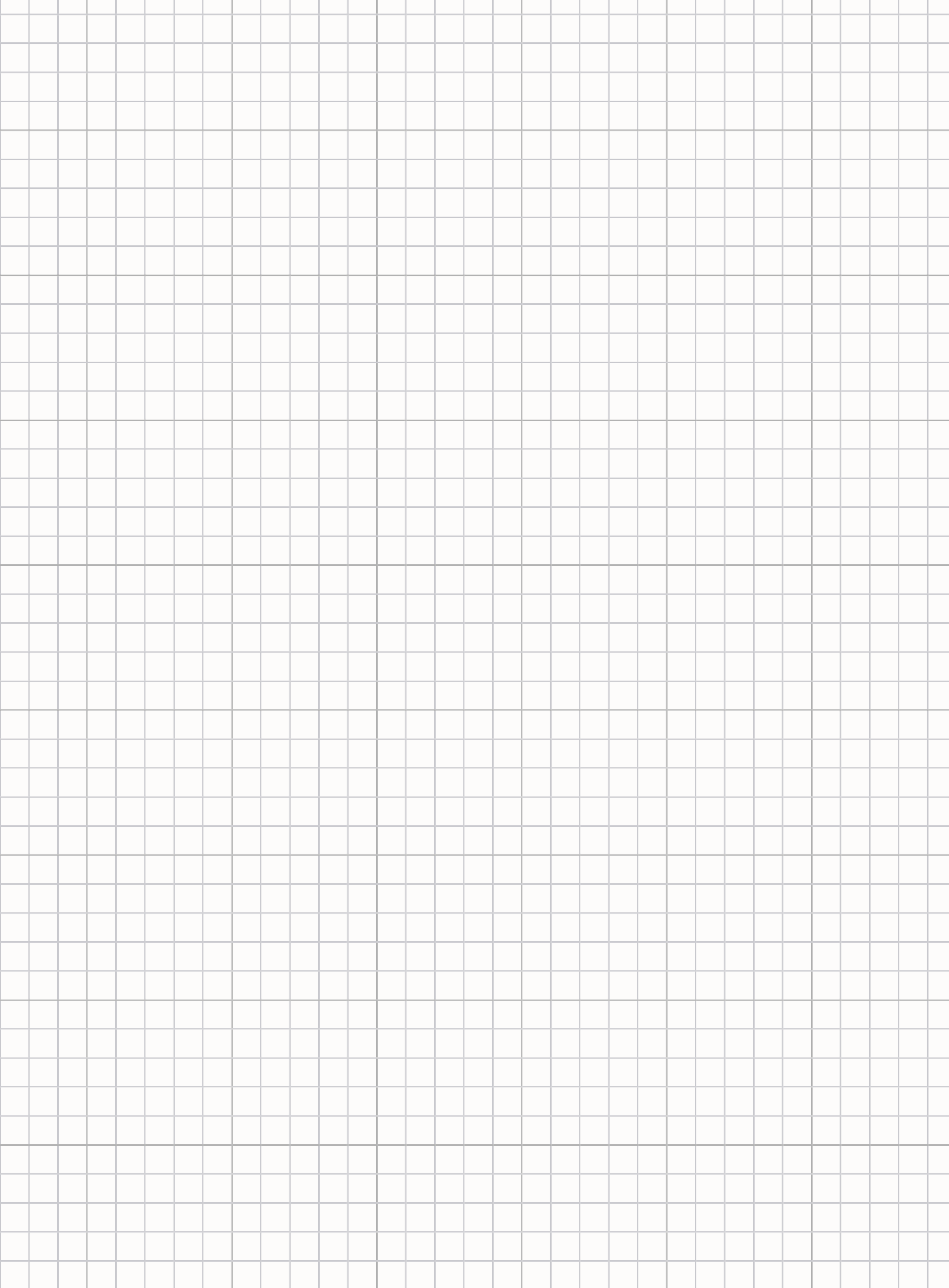


SUPPORTS INSTALLATION FOR DROPS:



OUR CLIENTS







● **Register Office :**

Kimaya, Sr. No. 43/2/4, Gurukrupa
Colony Lane No. 2,
Wadachi Wadi Road, Opp. Rim's
International School,
Undri, Pune - 411 060.
Contact: +91 9372919096

● **Factory Add. :**

Sr. No. 36/1/5, Mantarwadi, Uruli
Devachi, Pune - 412 308.

Website: www.flowellpneumatics.in



E-mail: info@flowellpneumatics.in

* Specifications and descriptions here may change without notice.