

GEM Series

Flowell Pneumatics Pvt. Ltd. Product Catalogue

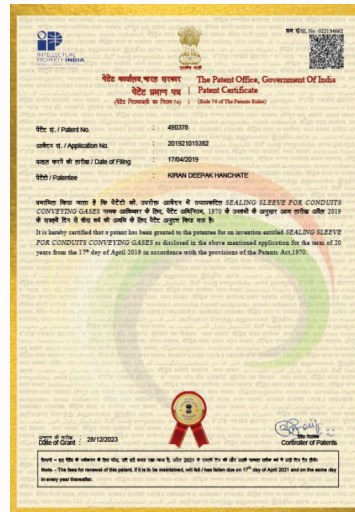
Welcome to Flowell Pneumatics, Your Trusted Partner
In Compressed Air Piping Solutions.



CERTIFICATIONS



PRESSURE RATING TESTED
BY ARAI



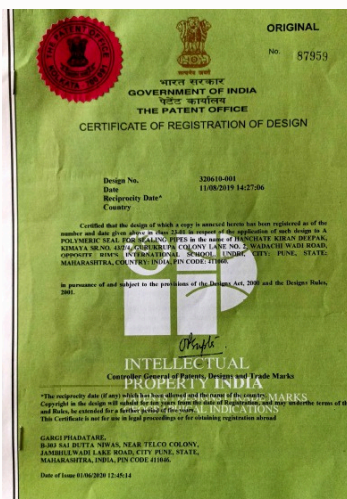
PATENT



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 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 304 pipes with SS 304 fittings for food and beverage industries.

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

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

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

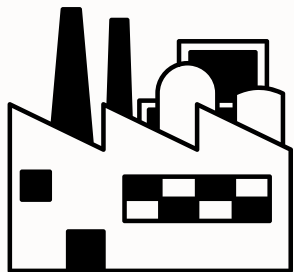
Efficient and reliable compressed air piping systems.



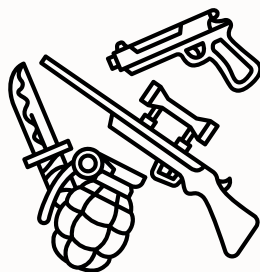
Timely Delivery

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

GENERAL INDUSTRIAL APPLICATION



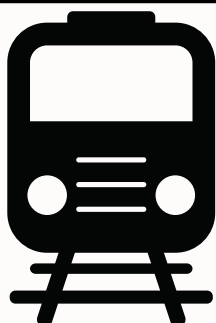
TEXTILES INDUSTRIES



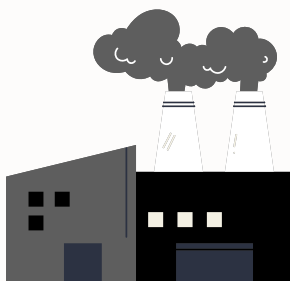
DEFENCE



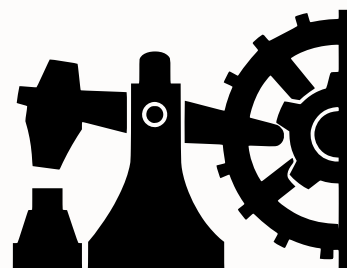
AEROSPACE



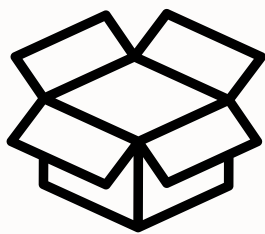
RAILWAYS



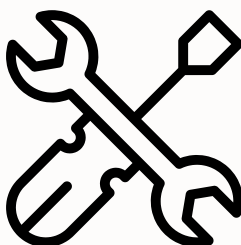
THERMAL POWER



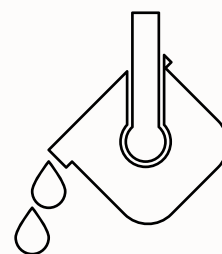
MACHINE SHOP



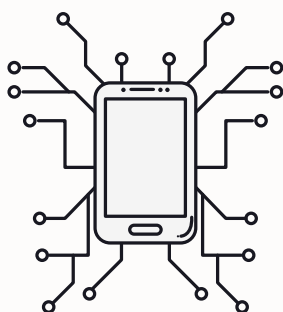
PACKAGING



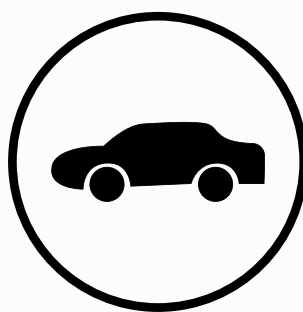
OEM



FOUNDRY



ELECTRONICS



AUTOMOBILE



PAPER MILL

GEM SERIES ALUMINIUM COMPRESSED AIR PIPING

NPS	½"	1"	1 ½"	2"	2 ½"	3"	4"	6"
SIZES	φ21	φ33	φ48	φ60	φ73	φ90	φ114	φ158



Technical Characteristics For CEM Series

Diameters (in mm)

21-33-48-60-73-90-114-158

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 chromated.

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- 21-4.0
FPP-A- 33-5.7
FPP-A- 48-5.7
FPP-A- 60-5.7
FPP-A- 73-5.7
FPP-A- 90-5.7
FPP-A- 114-5.7



Coupling-SS 304

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



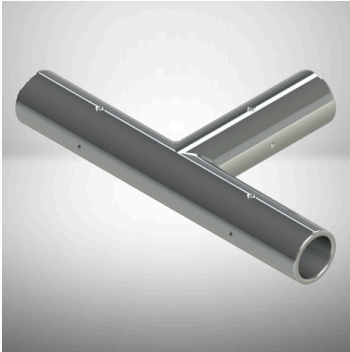
Bend – SS 304

FPBC-4- 21
FPBC-4- 33



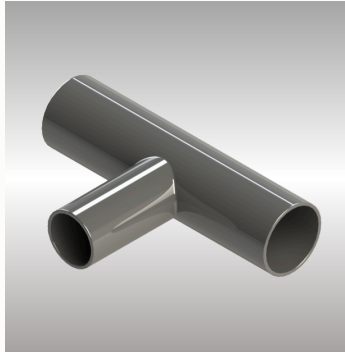
Elbow – SS 304

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



Tee – SS 304

FPTC-4-21
FPTC-4-33
FPTC-4-48
FPTC-4-60
FPTC-4-73
FPTC-4-90
FPTC-4-114



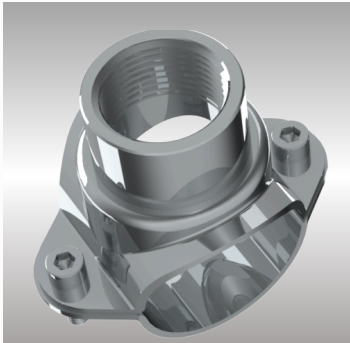
Reducing Tee – SS 304

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



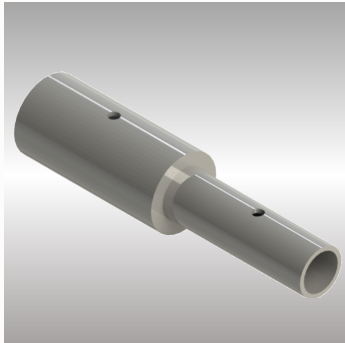
End Cap – SS 304

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



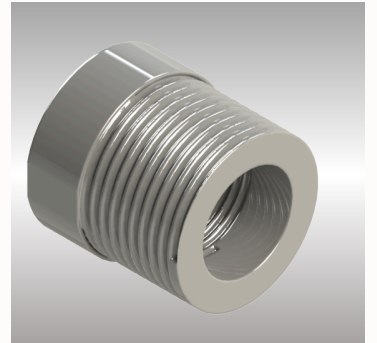
Saddle Branch – SS 304

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



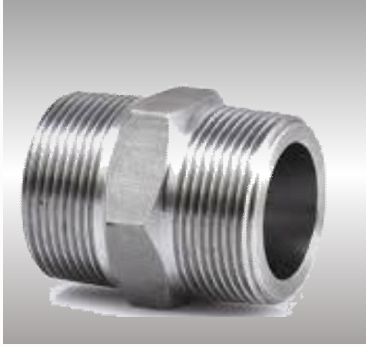
Line Reducer – Aluminium

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



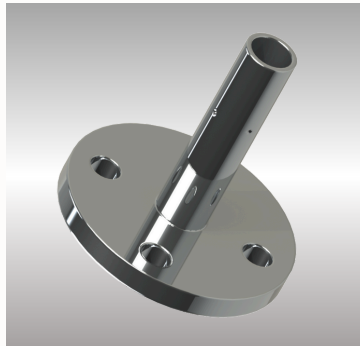
Reducing Bush Male & Female – Aluminium

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



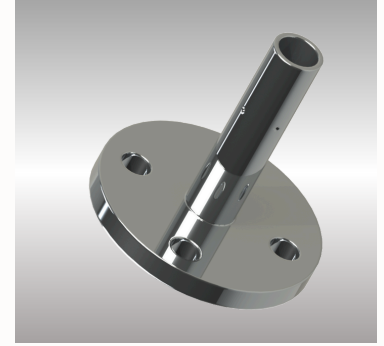
**Double Nipple –
SS 304**

FPDN-4-21
FPDN-4-33
FPDN-4-48
FPDN-4-60



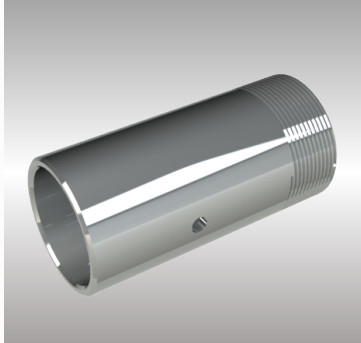
**F Table Flange
Adaptor - SS 304**

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



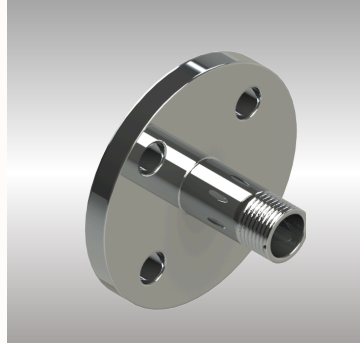
**F Table
Reducing Flange
Adaptor - SS 304**

FPRFAC-4-60X48
FPRFAC-4-73X60
FPRFAC-4-73X48
FPRFAC-4-90X73
FPRFAC-4-90X60
FPRFAC-4-114X90
FPRFAC-4-114X73



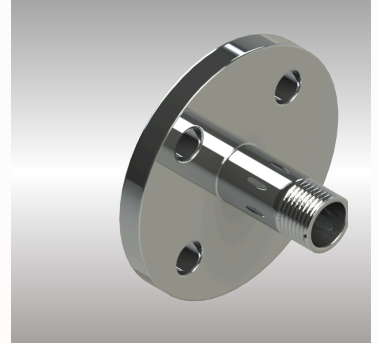
**Male Adapter –
SS 304**

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



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

FPTFA-4-33
FPTFA-4-48
FPTFA-4-60
FPTFA-4-73
FPTFA-4-90
FPTFA-4-114



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

FPTRFA-4-60X48
FPTRFA-4-73X60
FPTRFA-4-73X48
FPTRFA-4-90X73
FPTRFA-4-90X60
FPTRFA-4-114X90
FPTRFA-4-114X73

STANDARD ACCESSORIES

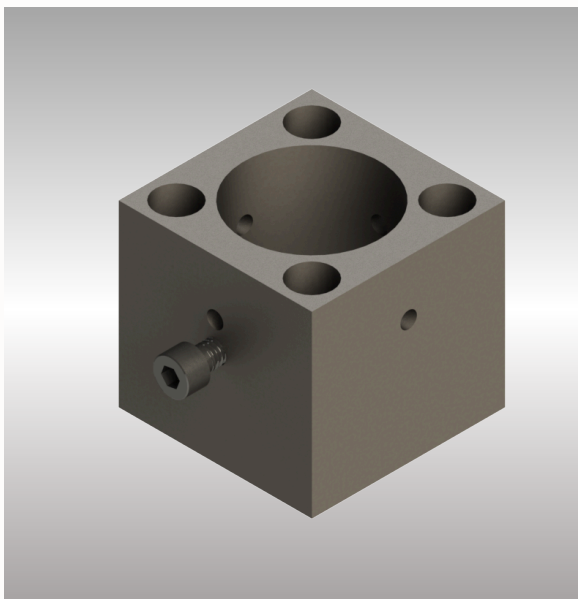


SS-304- One Piece Full Bore Female Thread Ball Valve PN-16

FPBV-4-21
FPBV-4-33
FPBV-4-48
FPBV-4-60

Aluminum / SS Butterfly Valve PN-16

FPBFV- 73
FPBFV- 90
FPBFV- 114



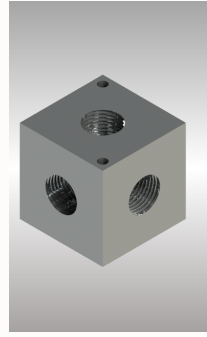
Set Of Drilling Fixtur

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



Flexible R1 Hose

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



Manifold

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



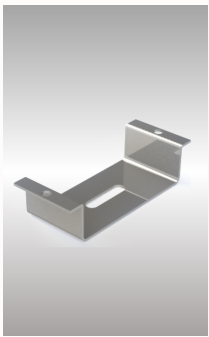
Pipe Cutter

FPPCU 65
FPPCU 125



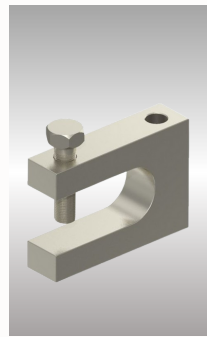
Pipe Clips

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



Wall Mounting Bracket

FPWMB-4X2
FPWMB-6X2



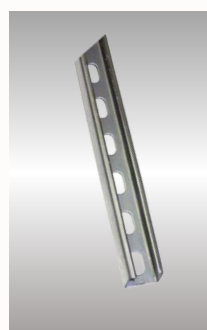
G Beam Clamp

FPGBC-20



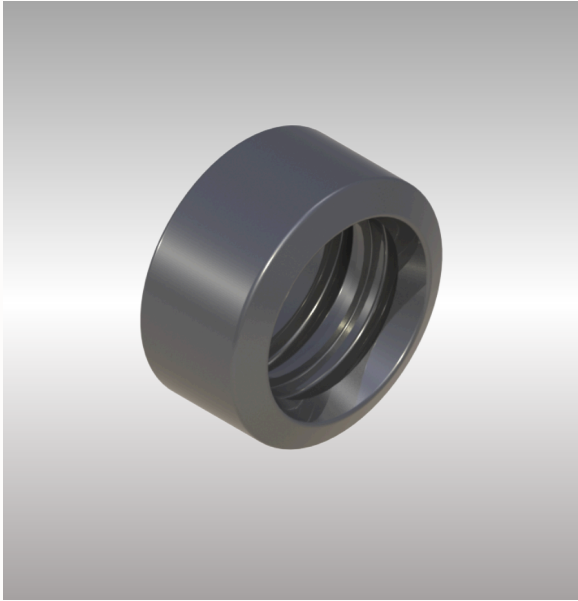
Cantilever Support For Pipe

FPCSP-200
FPCSP-250
FPCSP-500



Slotted U-Channel

FPSUC-33X1

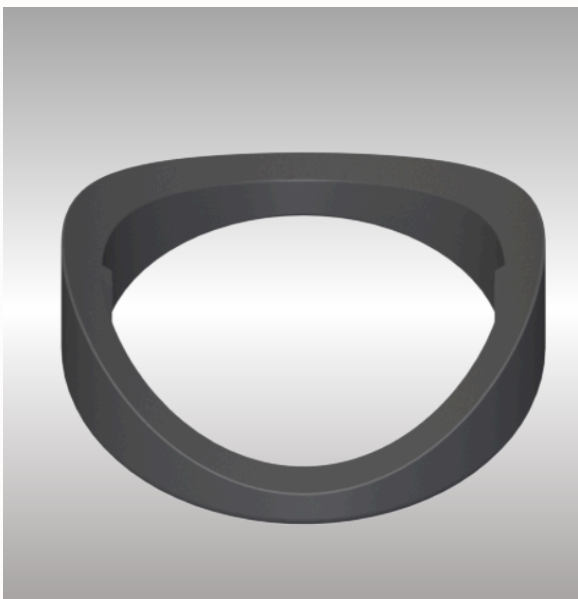
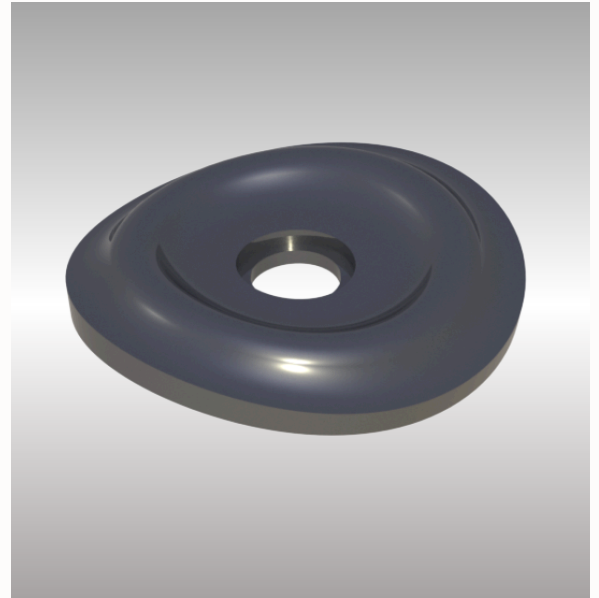


Main Seal Rubber-Coupling

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

Flat Seal Ring

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



Seal Ring - Saddle Branch

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

FPPL PIPE DIAMETER SELECTION CHART CONSIDERING 7 BAR OPERATING PRESSURE WITH 3% PRESSURE DROP

ACFM	CLOSED LOOP LENGTH (M)								
	50	100	150	200	250	300	350	400	450
25	21	21	21	33	33	33	33	33	33
50	33	33	33	33	33	33	33	33	33
100	33	33	48	48	48	48	48	48	48
150	33	48	48	48	48	48	48	48	48
220	48	48	48	48	60	60	60	60	60
300	48	48	60	60	60	60	60	60	60
400	48	60	60	60	60	73	73	73	73
550	60	60	73	73	73	73	73	90	90
650	60	60	73	73	90	90	90	90	90
750	60	73	90	90	90	90	90	90	90
900	73	73	90	90	90	90	90	90	90
1200	73	90	90	90	114	114	114	114	114
1450	73	90	114	114	114	114	114	114	114
1800	90	114	114	114	114	114	114	114	114
2150	90	114	114	114	114	114	114	114+	114+
2300	90	114	114	114	114	114	114+	114+	114+
2700	90	114	114	114	114+	114+	114+	114+	114+
3000	114	114	114	114+	114+	114+	114+	114+	114+

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● **Register Office :**

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Contact: +91 9372919096

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Devachi, Pune - 412 308.

● **Authorised Dealer**

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E-mail: info@flowellpneumatics.in

* Specifications and descriptions here may change without notice.