



FLUID CONTROLS PRIVATE LIMITED

ENGINEERING FLOW CONTROL



INSTRUMENTATION FITTINGS, VALVES & MANIFOLDS,
CLAMPS AND CUSTOMISED HOOKUPS



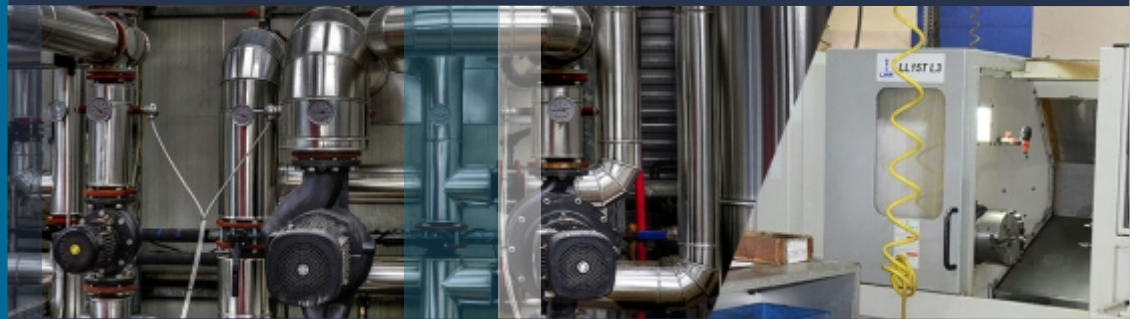


VISION

To be a global leader in the field of fittings, valves and allied application solutions.

MISSION

To exceed customer expectations by developing and delivering innovative solutions and providing them quality products and services. Within a framework of continuous improvement, we operate our organization safely, efficiently and profitably, and provide a challenging work environment for our employees.



VALUES

INTEGRITY :

We maintain the highest level of integrity in all our pursuits and are transparent with all our stakeholders customers, vendors, employees, shareholders. We always say what is true, sell what has been proven and tested and act at all times with the utmost honesty.

RELIABILITY :

We offer best-in-class reliable products which have been tested time and again and accepted by our customers. Through consistent product performance and the implementation of best-in-class operating systems, practices and policies, we aim to ensure confidence and trust in our company, our products and our people.

INNOVATION :

We have the foundation and application knowledge to deliver innovative solutions to all our stakeholders. We challenge ourselves, every moment, so that we can deliver the best. We invent how to innovate.



OUR COMPANY

Fluid Controls Private Limited was established in 1974 by the late Dr. Y.E. Moochhala, a Ph.D in Mechanical Engineering from Northwestern University, USA. Headquartered in Mumbai, India, the company has a state-of-the-art 22,000 sq ft manufacturing facility at Pune and an associate Group Company - Hyd-Air Engineering - based at Goa.



Fluid Controls has four decades of expertise in the design, engineering and manufacturing of high performance instrumentation products. Fluid Controls is a premier supplier to onshore and off-shore oil and gas installations, process and power plants and railways in India. Our international clients are located in the USA, Europe, Middle East and South East Asia.

Fluid Controls offers clients customised solutions based on analytical formulations, 2D / 3D modelling and Finite Element Modelling and Analysis. Our developments and solutions are tested in-house in a state-of-the-art laboratory at Pune.

Fluid Controls offers clients a complete range of instrumentation erection hardware, ranging from instrumentation fittings, valves, manifolds and air headers to DIN pipe clamps, SAE flanges and condensate pots. We also offer clients pre-fabricated instrument hook-ups which are a convenient way of eliminating impulse piping by using sandwich construction valves. As part of our special product range, Fluid Controls has developed high pressure needle valves, a range of gas valves for turbine applications and block and bleed valves.



The Company is certified with ISO 9001:2015 and has obtained PED certification. Fluid Controls has product certifications for BS 4368 : Part IV 1984, ASTM F1387-99 (2012), MSS-SP-99 for valves, ball valve certification under API 607 and Fugitive Emission certification for valves.

QUALITY



The Fluid Controls team is a diverse family of engineers, technical experts and technicians, each with a wealth of experience. Despite the difference in backgrounds and experience, the team has one thing in common :
TOTAL COMMITMENT TO CLIENT SATISFACTION.



TESTING FACILITIES

Fluid Controls offers complete in-house testing for all the products manufactured. All tests are carried out in strict conformity to ASME 1387: 2002, and records are maintained as per ISO 9001: 2015.

Our State-of-the-art testing laboratory at Pune has facilities for :

- Hydrostatic pressure up to 58,000psi. Pneumatic testing up to 20,000psi
- Vacuum Test for vacuum up to 750mbar
- SCADA Multi Test bench covering
 - Burst Pressure Testing, Hydraulic Impulse and Vibration test, Temperature cycling
 - Corrosion Resistance of plating as per ASTM B840 : 2002 by salt spray method ASTM B117, Stress Corrosion test as per ASTM F 1387, Flexure Fatigue and Rotary Flexure
 - Tensile Pull Test
- Cracking pressure up to 5kg
- Reliability Testing Machine-100000 Cycles
- Positive Material Identification (PMI) and Ultra Sonic Testing Machines available in house



CERTIFICATIONS



- Quality Management System : ISO 9001 : 2015 for Fittings, Valves, Clamps, Flanges & Hydraulic Fittings
- Certification under European Pressure Equipment (PED) Directive for Fittings, Valves & Manifolds
- Performance Test Certification for Tube Fittings as per ASTM F1387- 99 (2012). This certification conforms to ONGC Spec FS #3507 Clause 4.22 (b) and (c)
- Type Test Certification for Tube Fittings for 6000psi MWP as per BS 4368 : Part IV : 1984
- Helium Leak Test Certificate for Tube Fittings
- Type Test Certification for Valves / Manifolds as per MSS-SP-99
- Fire Safe Ball Valves (API 607 / ISO 10497)
- Fugitive Emission ISO 15848-1
- CV Test Certificate for Check Valves

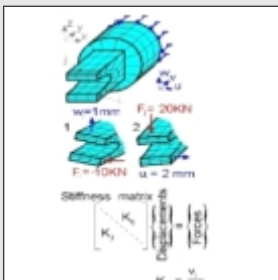


RESEARCH & DESIGN

Our innovation and process-focused team constantly challenges our existing product portfolio. The team and develops new products and upgrades existing products to benefit our customers.

We use the concept of “Design for Six Sigma” as a platform for product development and follow a well laid out procedure for all our developments.

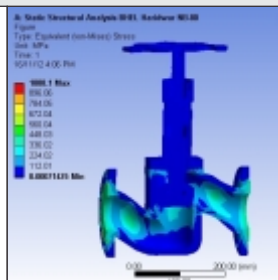
Our expert Techno-Commercial team always keeps the end user in mind and works closely with clients to design customised products and solutions.



Analytical Formulations/
First Principles



In-house 2D & 3D Modeling



Finite Element Modeling & Analysis



Manufacturing prototype part at our facilities



Testing for design validation



CLIENTS AND APPROVALS

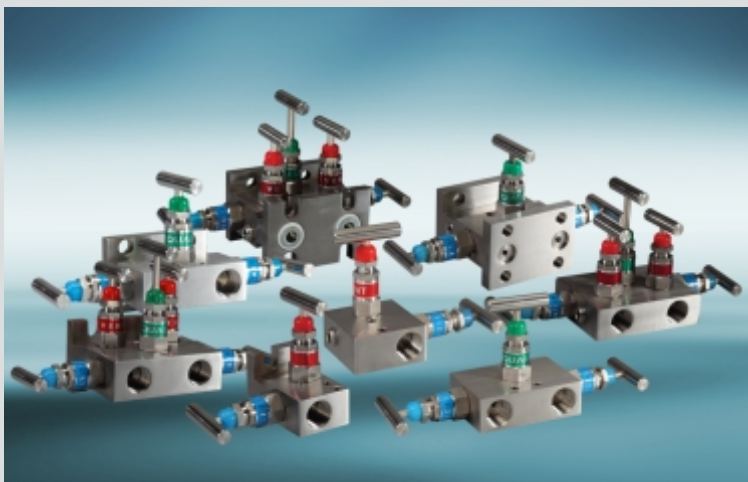


INSTRUMENTATION TUBE FITTINGS



- Range of double ferrule compression tube fittings
- Meet the standards of ASTM F1387-99 (2012)
- Offered in a variety of materials such as SS316/L, SS304/L, CS, Monel, Brass
- NACE certification offered
- End connections as per customer requirement
- Working pressures as per ASME B31.3
- Temperatures up to 350°C
- Sizes up to 2 inch
- Heat code traceable

INSTRUMENTATION MANIFOLDS



- 2, 3 and 5 Valve Manifolds
- Separately mounted, direct mounted, co-planar and flanged configurations available
- Offered in a variety of materials such as SS316/L, SS304/L, CS, Monel
- NACE certification offered
- Working pressures up to 10,000 psig (689 bar)
- Case hardened non-rotating swiveling plug
- Thread above the seal design to prevent wetting of threads
- Heat code traceable

HIGH PRESSURE NEEDLE VALVES



- Specially designed for working pressures up to 30,000 psig (2,112 bar)
- Offered in a variety of materials such as SS316/L, SS304/L, Monel
- NACE certification offered
- End connections as per customer requirement
- Case hardened non-rotating swiveling plug
- Thread above the seal design to prevent wetting of threads
- Heat code traceable

INSTRUMENT HOOKUPS



- 3D Model for each Hook-Up designed in-house by a dedicated R&D team
- Finite Element Analysis using the customer technical brief such as temperature-flow and ambient, flow medium properties, surrounding environment conditions
- PDMS/PDS modeling which facilitates Hook-Up alignment with the plant layout
- End-to-End in-house manufacturing
- Complete traceability based compliance to Quality Control documents
- Simplified packaging per TAG numbers.
- Optional on-site assistance if required while installation

NEEDLE VALVES



- A wide variety of needle valves available including two-way, three-way, multi-port, single block and bleed
- Offered in a variety of materials such as SS316/L, SS304/L, CS, Monel, Brass.
- NACE certification offered
- End connections as per customer requirement
- Working pressures up to 10,000 psig (689 bar)
- Case hardened non-rotating swiveling plug
- Thread above the seal design to prevent wetting of threads
- Heat code traceable

BALL VALVES



- Available in two, three and four-way designs. Compact design for switching service ball valves
- Offered in a variety of materials such as SS316/L, SS304/L, CS, Monel, Brass
- NACE certification offered
- End connections as per customer requirement. Special range of flanged end ball valves offered for hydraulic service
- Working pressures up to 10,000 psig (689 bar)
- Heat code traceable



GAS VALVES



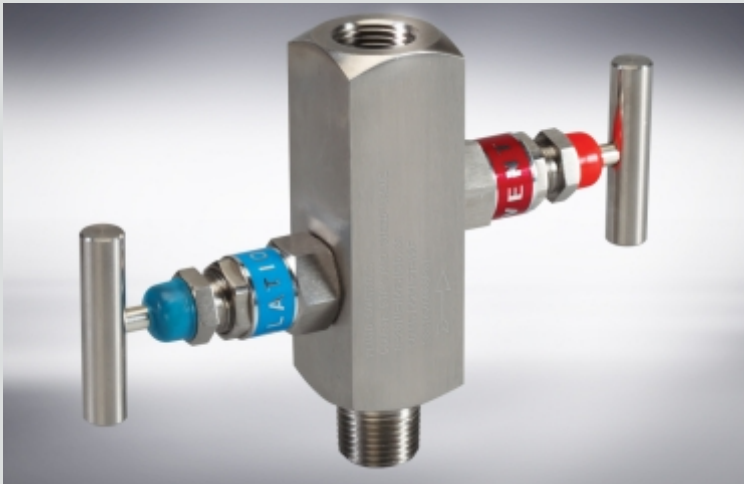
- **A range of special valves designed for :**
 - a) Hydrogen cooling system of turbo generator
 - b) Valve for super heated steam line including special manifolds
 - c) Valves for heat exchangers condensate lines
 - d) Valves used for cooling towers
- Design and connection as per client specifications
- Supplies to OEMs, projects and spares requirements

GLOBE VALVES



- Available in Union Bonnet and OS&Y designs
- Offered in a variety of materials such as SS316/L, SS304/L, CS
- NACE certification offered
- End connections as per customer requirement
- Working pressures as per ANSI 16.34
- Heat code traceable

DOUBLE BLOCK & BLEED VALVES



- Designed as per ANSI 16.34
- Offered in a variety of materials such as SS316/L, SS304/L, CS, Monel.
- NACE certification offered.
- Flanged and screwed end connections
- Working pressures up to 3,000psig (207 bar)
- Sealing material – PTFE, Delrin
- Heat code traceable

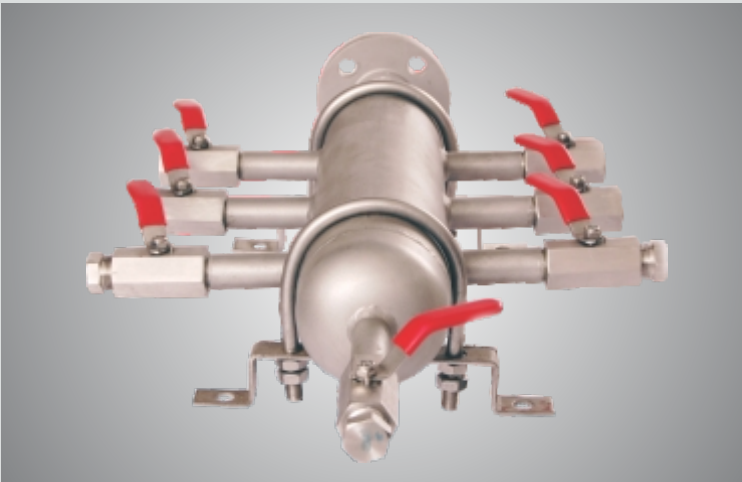
NON-RETURN VALVE



- Offered in a variety of materials such as SS316/L, SS304/L, CS, Monel, Brass
- NACE certification offered
- Screwed and tube end connections
- Working pressures up to 6,000psig (414 bar)
- Standard cracking pressure 0.3-0.5 kg/cm²
Cracking pressure upto 2kg/cm² can be offered for special applications
- Heat code traceable



AIR DISTRIBUTION MANIFOLDS



- Designed as per ASME Sec VIII, Div I
- Air manifold configurations customised to client specifications
- Offered in a variety of materials such as SS316/L, SS304/L, CS, Monel. NACE certification offered.
- Flanged, tube and screwed end connections offered
- A variety of mounting arrangements offered
- Radiography offered on all weld joints
- Heat code traceable

CONDENSATE POTS



- Designed in accordance with ASME Sec VIII, Div I
- Offered in a variety of materials such as SS316/L, SS304/L, CS, Monel, A333, A335, dual certification, NACE certification
- Standard pipe sizes 2" to 8" and schedules 40,80,160, XX
- Socket weld, butt weld, NPT end connections
- Radiography offered on all weld joints
- Heat code traceable

PIPE AND TUBE CLAMPS



- Standard Duty construction as per DIN 3015 up to 2" or 50mm OD
- Heavy Duty Construction as per DIN 3015 up to 8" or 222mm OD
- A special range of twin clamps available up to 42mm OD
- Clamps available in polypropylene, polyamide and aluminum with CS and SS metallic parts
- Channel mounting options available

HYDRAULIC FLARELESS FITTINGS



- Designed as per DIN 2353 / ISO 8434-1
- Offered in a variety of materials such as SS316/L, SS304/L, CS, Monel, Brass.
- NACE certification offered.
- End connections as per the customer requirement/ standard
- Offered in Light, Medium and Heavy Series
- Heat code traceable



SAE & CETOP FLANGES



SAE Flanges

- Designed as per ISO 6162
- Working pressures of 3000psig (207 bar) and 6000psig (414 bar)
- Butt weld and socket weld connections

CETOP Flanges

- Designed as per ISO 6164
- Dynamic working pressures of 2272psig (160 bar) and 4473psig (315 bar)
- Butt weld and socket weld end connections with square clamping



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Associated company and products:

