



## ENGINEERING FLOW CONTROL

Fittings, Valves, Manifolds, Clamps,  
Customised Hookups & Accessories





## OUR COMPANY

Established in 1974, Fluid Controls® is a leading provider of instrumentation products and services for a wide variety of industrial applications. Headquartered in Mumbai, the group has manufacturing facilities in Pune and Goa, including a state-of-the-art R&D centre and testing laboratory.

## OUR CLIENTS

Fluid Controls® is a premier supplier to onshore and off-shore oil and gas installations, process and power plants and railways in India. We are approved by all leading OEM's, including ONGC (offshore/ onshore), NTPC, NPCIL, BHEL, GAIL, SAIL, and RINL. Fluid Controls® has over 25 years of expertise in overseas sales to clients in North America, Europe, the Middle East and South East Asia.

## OUR PRODUCTS

Fluid Controls® offers clients a complete range of instrumentation erection hardware, from tube fittings, valves, manifolds and air headers to DIN pipe clamps, SAE flanges and condensate pots. We also offer clients customised close coupled instrument hook-ups, high pressure 30,000psi needle valves, a range of gas valves for turbine applications and block and bleed valves.



## OUR RESEARCH & DEVELOPMENT

Fluid Controls® offers clients customized solutions based on analytical formulations, 2D and 3D Modelling and Finite Element Analysis. Our commitment to product upgradation and new product development has resulted in the recognition of Fluid Controls® as an “R&D Centre” by the Department of Scientific & Industrial Research (DSIR).

## OUR CERTIFICATIONS

Fluid Controls® is systems certified for ISO 9001:2015, ISO 14001, ISO 18001, and PED. Product performance certifications include ASTM F1387-99 (2012), ISO 19879 (ISO 8434), NGV, ISO 15500, ECE R110, PDA for DIN Single Ferrule Fittings, American Bureau of Shipping PDA for Fittings, Valves and Manifolds, MSS-SP-99, Valve certifications for API 607 and Fugitive Emission. We also have special certifications to IEC and EN standards for corrosion and shock/vibration for fittings.

## OUR SERVICES

Fluid Controls® offers product customization and solutions to suit specific applications and client requirements. Our DSIR recognised R&D Center offers design and testing services to all our customers. We also provide on-site installation support and training programs when required.





# FLUID CONTROLS<sup>®</sup>

## ENGINEERING FLOW CONTROL



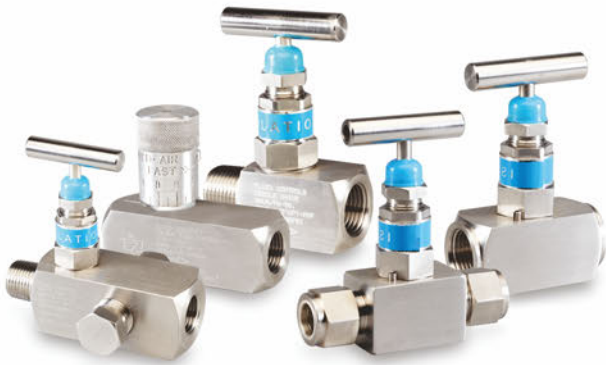
### INSTRUMENTATION TUBE FITTINGS ▶

- Range of Double Ferrule Compression Tube Fittings
- PDA by American Bureau of Shipping (ABS)
- Performance tested to ASTM F1387-99 (2012).  
Comply with vibration norms of BS EN 61373 and corrosion resistance of IEC 60068-2-52
- Certified for CNG applications (NGV 3.1, ECE R110, ISO 15500)
- Working pressures as per ASME B31.3, performance temperatures to 350°C
- End connections and materials to customer requirements, sizes up to 2 inches
- Heat code traceability



### DIN SINGLE FERRULE FITTINGS ▶

- Design standard DIN 2353 / ISO 8434-1 Offered in Light, Medium and Heavy Series
- Performance certified as per ISO 19879 / ISO 8434-5
- Cyclic Endurance, Fire Endurance, Pull Out Tested to IACS P211:2001, Salt Mist Test performance to ISO 9227
- Unique hardening process for the ferrule developed in house
- End connections as per customer requirements
- Available in stainless steel. Carbon steel provided on request
- Heat code traceability



## NEEDLE VALVES ▶

- A wide variety of designs including two-way, three-way, multi-port, block & bleed
- Specially designed, adapted and certified low temperature valves offering safe, efficient service for temperatures to -196°C (-320°F)
- Needle Valve PDA by American Bureau of Shipping (ABS).
- Certified MSS-SP-99, Fugitive Emission Certification as per API 622 / ISO 15848
- Certified for CNG applications (NGV3.1, ECE R110, ISO15500)
- IBR certification offered
- Working pressures up to 15,000 psig (1034 bar)
- Case hardened non-rotating swiveling plug or ball and thread above the seal design
- End connections and valve material to customer requirements
- Heat code traceability



## CLEAN FITTINGS ▶

- Clean fittings conforming to ASTM G93 level C
- Stainless steel
- Sizes and end connections as per customer requirements
- Heat code traceability



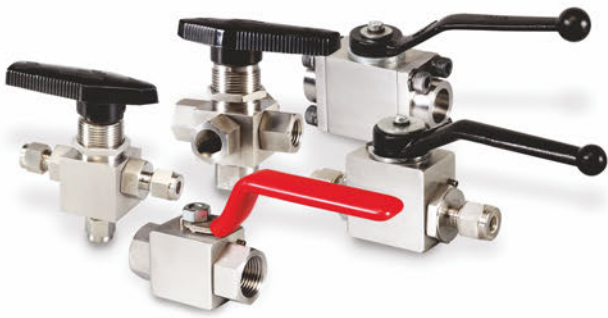
## INSTRUMENTATION MANIFOLDS ▶

- Two, Three and Five Valve Manifolds
- Separately mounted, direct mounted (T Type, H Type), co-planar and flanged configurations
- Working pressures up to 10,000 psig (689 bar)
- IBR certification offered
- Case hardened non-rotating swiveling plug / ball and thread above the seal design
- End connections and material to customer requirements
- Heat code traceability



## HIGH PRESSURE NEEDLE VALVES ▶

- Specially designed range of valves designed for pressures up to 30,000 psig (2,112 bar)
- Case hardened non-rotating swiveling plug / ball and thread above the seal design
- End connections to customer requirements.
- Valves offered in stainless steel / nickel alloys
- Heat code traceability



## BALL VALVES ▶

- Standard Two, Three and Four-Way designs
- Switching service ball valves offered in a compact design
- PDA by American Bureau of Shipping (ABS). Fire Safe Certification as per API 607 / ISO 10497
- Certified for CNG applications (NGV 3.1, ECE R110, ISO 15500)
- Special range of flanged end ball valves offered for hydraulic service
- Working pressures up to 10,000 psig (689 bar)
- End connections and material to customer requirements
- Heat code traceability



## PRE-FABRICATED INSTRUMENT HOOKUPS ▶

- EIL approved Prefabricated Instrument Hookups
- Each Hookup is custom designed for the customer / application requirement for temperature, flow, pressure and working conditions
- 3D and PDMS/PDS modelling to facilitate alignment with the plant layout
- Complete traceability based compliance to quality control documents
- Simplified packaging per TAG numbers.
- On-site assistance during installation



## NON RETURN VALVES ▶

- PDA by American Bureau of Shipping (ABS)
- Offered a variety of designs with screwed and tube end connections
- Standard cracking pressure 0.3-0.5 kg/cm<sup>2</sup>
- Cracking pressure up to 2kg/cm<sup>2</sup> offered for special applications
- Working pressures up to 6,000psig (414 bar)
- Valve materials to customer requirements
- Heat code traceability



## GAS VALVES ▶

- A range of special valves designed for :
  - Hydrogen cooling system of turbo generator
  - Valve for the super-heated steam line including special manifolds
  - Valves for heat exchangers in condensate lines
  - Valves used for cooling towers
- Globe Valves offered up to NB 150
- Helium leak testing per customer requirements
- Heat code traceability



## FLOATING BALL VALVES ▶

- Design to BS EN ISO 17292 / API 6D
- Available in two-piece or three-piece design with Butt-weld, Socket-weld, NPT end connections
- Fire safe design with Chevron sealing for a leak-tight stem
- Blow-out proof and self-compensating stem design
- Heat code traceability



## PIPE AND TUBE CLAMPS ▶

- Standard Duty construction as per DIN 3015 - 1 up to 2 1/2" or 63mm OD
- Heavy Duty Construction as per DIN 3015 - 2 up to 8" or 219mm OD
- A special range of twin clamps as per DIN 3015 - 3 up to 42mm OD
- Available in polypropylene, polyamide and aluminum with CS / SS metallic parts
- Channel mounting options available



## 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 4,473 (315 bar)
  - Butt weld and socket weld end connections with square clamping



## INSTALLATION ACCESSORIES ▶

- Tools to ensure leak-free joints
- Indigenously developed Hydraulic Swaging Machine for installation of double ferrule fittings
- Pre-setting tools, gap gauges and lubricant to aid installation of fittings
- Tube cutters, benders and de-burring tools



## **FLUID CONTROLS PRIVATE LIMITED**

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