



FLUID CONTROLS[®]
ENGINEERING CONNECTIONS EVERYDAY



CONNECTING DEFENCE



WHO WE ARE

OUR COMPANY

Fluid Controls Private Limited was established in 1974 by Dr.Y.E. Moochhala, a Ph.D. from Northwestern University, USA, with a vision to deliver high quality, high-performance products which delight customers. Headquartered in Mumbai with a manufacturing facility at Pune, Fluid Controls® has a state-of-the-art R&D centre, which offers clients customised solutions based on analytical formulations, 3D Modelling and FEA.

OUR CLIENTS

We are a premier supplier to the defence establishment, onshore and offshore oil and gas installations, process and power plants, critical applications for nuclear plants, and critical brake piping applications in the railways.

OUR PRODUCTS

Fluid Controls® offers clients a complete range of instrumentation products - connectors and adaptors, valves, manifolds, DIN pipe clamps, and SAE flanges. Our products ensure precision connections which are designed based on specific application requirements and which perform to international & customer standards.

OUR SERVICES

Fluid Controls® offers product development and customisation solutions for customers at our DSIR recognized R&D Center. We also provide on-site installation support and training programs when required.



OUR RESEARCH & DEVELOPMENT

Since inception, Fluid Controls® has offered customers in-house design and development of products. We have a state-of-the-art design center at Pune which is recognised as an **"In-House R&D Centre"** by DSIR (Department of Scientific & Industrial Research).

OUR NEW PRODUCT DEVELOPMENT

We offer clients customized solutions based on analytical formulations, 2D and 3D Modelling and Finite Element Analysis. Adopting a "Design for Six Sigma" approach, all products designed by Fluid Controls® are developed from First Principles. Each design is 2D and 3D modeled and validated using the latest software and FEA. The new products designed by Fluid Controls® include high pressure valves, cryogenic valves, special connectors, bellows sealed valves, pre-fabricated systems for diverse sectors such as nuclear, railway brake piping systems, oil & gas.

OUR CERTIFICATIONS

Fluid Controls® is systems certified for ISO 9001:2015, ISO 14001, ISO 45001, and PED. Product performance certifications include ASTM F1387-99 (2012), ISO 19879, ISO 8434-5. NGV, ISO 15500, ECER 110, 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 ACHIEVEMENTS

Accredited as an "In-House R&D Centre" by DSIR, Fluid Controls® has published over 22 technical journal papers and has filed a Global Patent. Fluid Controls® is the recipient of the CII Industrial Innovation Award for Medium Scale Manufacturing Organizations and has been recognized as one of the Top 25 Innovative Companies of the Year at the Indian R&D Ecosystem Conclave 2019. Fluid Controls® is also recognized as a Top 10 "Urban Infra Solution Provider of the Year 2019" by Urban Transport News.



PRODUCT RANGE

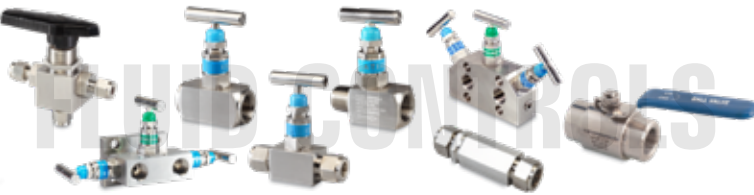
FITTINGS & CONNECTORS



- DOUBLE FERRULE FITTINGS
- DIN SINGLE FERRULE FITTINGS
- QUICK RELEASE CONNECTORS
- FLEXIGRIP™ FITTINGS
- CNG FUEL APPLICATION FITTINGS
- CUSTOMISED CONNECTORS

Fluid Controls® offers high-quality, high-performance connectors for a variety of applications. Our range includes double ferrule fittings for oil and gas, process and nuclear applications, to DIN single ferrule fittings for hydraulics and railways, threaded adaptors, quick release connectors and FlexiGrip™ fittings.

VALVES & MANIFOLDS



- INSTRUMENTATION VALVES & MANIFOLDS
- PRE-FABRICATED INSTRUMENTATION HOOK-UPS
- HIGH-PRESSURE NEEDLE VALVES
- GAS VALVES
- CUSTOMISED VALVES

Fluid Controls® offers high-quality, high-performance valves and manifolds for a variety of applications. Our range includes needle, ball and check valves, high pressure needle valves to 30,000psi, gas valves, pre-fabricated instrument hookups, and floating ball valves.

CLAMPS & FLANGES



- TUBE & PIPE CLAMPS
- TWIN SERIES TUBE & PIPE CLAMPS
- SAE & CETOP FLANGES

Fluid Controls® offers standard duty, heavy duty and twin series pipe and tube clamps in polypropylene, polyamide and aluminium. The clamps are designed and validated to DIN 3015 standards. Fluid Controls® flanges are designed to SAE and CETOP standards and are available with socket-weld and butt-weld connections for 3000psi and 6000psi applications.

ENGINEERING & INSTALLATION SERVICES

With our composite expertise of our products, our understanding of high pressure, high vibration and leak proof environments and our decades of experience catering to critical customer requirements, Fluid Controls® offers customers a complete end-to-end engineered supply and installation solution.

Our services include:

- Design, engineering and prototyping services
- On-site installation and training services
- Pre-piped / pre-fabricated assemblies for easy site handling

OUR DEFENCE PROJECTS



VALVES FOR SUBMARINE WATER MIST SYSTEMS

Fluid Controls® has supplied Kirloskar Brothers Limited a range of specially designed Low Pressure Loss Throttle Valves and Non-Return Valves for the Water Mist System in submarines.

Area of Application:

Submarine Water Mist Fire Control System

Valves Designed and Supplied:

- Isolation-Throttle valve with minimum pressure loss in stainless SS316
- Non-return valve in in Stainless Steel 316

Performance Testing:

- Hydrostatic
- Pneumatic
- Reliability: Open and Close (with pressure 60kg/cm²) on a test rig designed by Fluid Controls®
- Cracking Pressure – First bubble test
- Shock Test at Electronics Corporation of India (ECIL) laboratory at Hyderabad (designated by the Indian Navy)





BRONZE VALVES FOR SUBMARINES (DMDE)

Fluid Controls® has supplied DMDE a range of bronze valves for compressed air systems in submarines.

Area of Application:

Submarine Compressed Air System with varying pressure Ranges (1.15 to 400 kg/cm²).

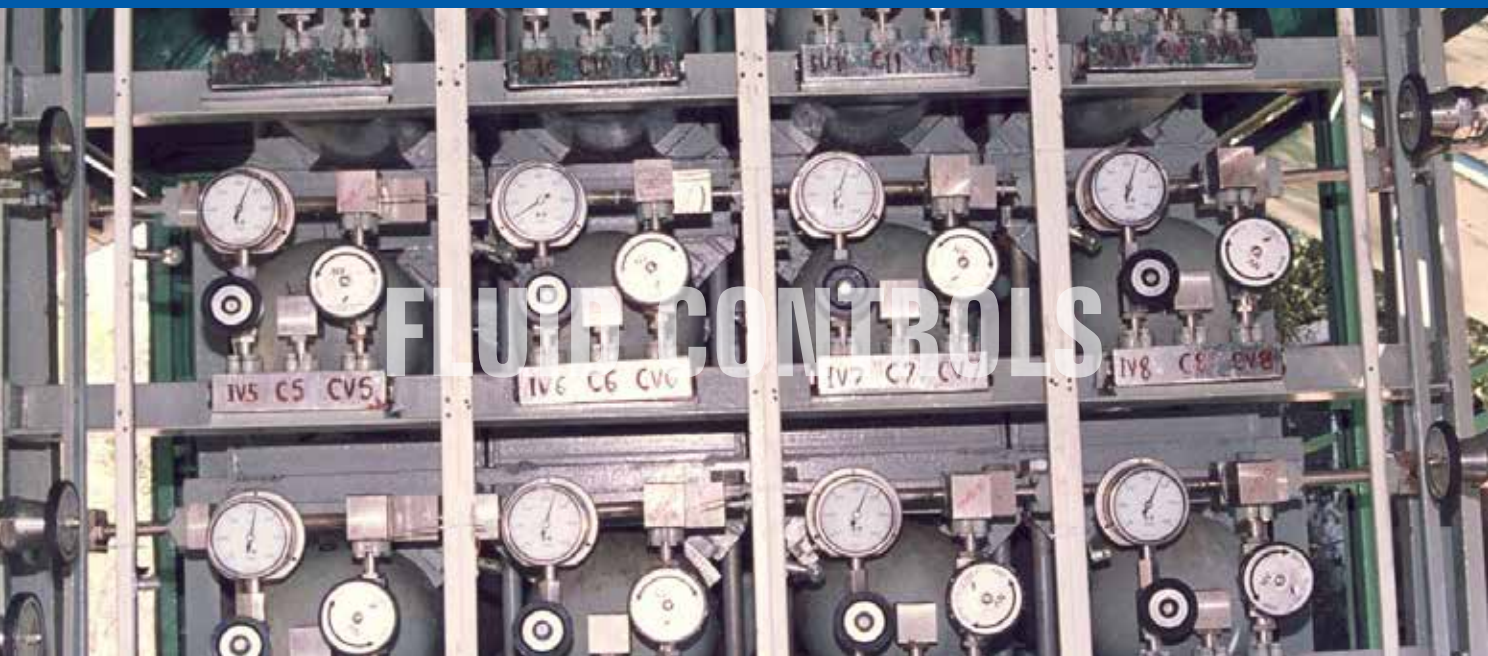
Valves Supplied:

Shut-off Valves, Non-return Valves, Relief Valves, Throttle Valves, Pressure Gauge Valves in Bronze and Stainless Steel

Performance Testing:

- Hydrostatic
- Pneumatic
- Reliability– Unpressurized Open and Close
- Cracking Pressure – First Bubble Test





AIR STORAGE VEHICLE FOR AKASH

The AKASH Weapons System employs sub systems which need high pressure compressed air up to 400 bar. Fluid Controls® carried out a prototype development project of an Air Storage Vehicle under the auspices of Research & Development Establishment (Engrs), Pune.

Fluid Controls® re-designed the existing Air Storage Vehicle (ASV) and delivered a prototype to R&D Engineers which included:

- Cylinder, Non-Return, Balance Piston Stop valves
- Fabrication of the complete pneumatic circuit
- Installation and connection of the circuit onto the ASV

The system was installed on the ASV and successfully tested for 600 bar hydrostatic and 400 bar pneumatic pressure.





FLUID CONTROLS

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