



ELITE FLOW
ENGINEERING

2025

ELITE FLOW ENGINEERING

CATLOGUE



www.eliteflow.com

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About Us.

Introduction

Elite Flow Engineering is a precision-driven engineering company specializing in high-performance instrumentation fittings, valves, syphons, and temperature protection components. Headquartered in Thane, Mumbai, we serve industries where accuracy, reliability, and safety under pressure are non-negotiable.

Built on a foundation of technical expertise and a passion for quality, Elite Flow Engineering combines modern manufacturing standards with deep industry knowledge to deliver products trusted by engineers, EPC contractors, OEMs, and maintenance teams across India and international markets.

We design and supply products that consistently perform in the most demanding environments—high pressure, high temperature, corrosive media, and mission-critical industrial processes. Every component is engineered with meticulous attention to detail, using certified materials, CNC machining technology, and strict inspection procedures to ensure uncompromised performance.

At Elite Flow Engineering, we believe that a connection is more than a part—it's the foundation of safety, efficiency, and system integrity. Whether it's a simple fitting or a complex manifold assembly, our solutions are crafted to deliver leak-proof performance, long service life, and perfect compatibility with global standards.



Mission & Vision.

MISSION

- To deliver high-precision flow engineering components that ensure safety, reliability, and leak-proof performance in every industrial application. We are committed to consistent quality, customer trust, and engineering excellence.

VISION

- To become a globally recognized and trusted brand in instrumentation fittings and flow control solutions, known for innovation, precision, and long-lasting performance.

INSTRUMENTATION PIPE FITTINGS



Introduction

Elite Flow Engineering's pipe fittings are designed with a singular focus—delivering absolute reliability in every connection. Manufactured from high-quality stainless steel and crafted with precision machining, our fittings ensure stable, leak-proof performance even under demanding pressure and temperature conditions. Every component reflects our commitment to accuracy, consistency, and the technical excellence required in today's industrial systems.

Engineered for versatility and trusted across multiple sectors, our fittings integrate seamlessly into instrumentation lines, process piping, and critical flow networks. From refineries and power plants to chemical processing and automation systems, Elite Flow pipe fittings provide the strength, integrity, and long service life needed to keep operations running safely and efficiently.

Features:

Available as per ANSI B16.11, Power Piping Code, ANSI 31.3 Chemical and Petroleum Refinery Piping Code.

Size ranges from 1/8" to 2" NPT Tapered pipe thread, ISO Parallel Threads.

All male threads are rolled for extra strength.

Protective end caps prevent damage to exposed threads.

Construction:

SS-316, SS-304, Forgings – ASTM A182, and Bar Stock – ASTM A479

MANIFOLD VALVE



Introduction

Manifold valves are engineered to provide safe, accurate, and reliable control of pressure instrument lines. Designed for isolation, equalization, and venting functions, these valves ensure smooth and precise operation of differential pressure transmitters, gauges, and process instrumentation.

Elite Flow Engineering manifold valves are built from high-grade stainless steel and precision-machined for leak-tight performance under high-pressure and high-temperature conditions. Their compact design, robust construction, and industry-standard configurations make them ideal for critical industrial applications.

Features:-

- One Piece Barstock Forged Body for high strength and fully safety.
- Bonnet lock prevents accidents disassembly.
- Stem threads rolled and hard plated provides maximum service life.
- Two Part Stem tip, stellite and hardened provides excellent flow control and ensures bubble-tight shut off.
- Non Rotating Vee / Ball Tip design: Which forms a bearing joint with the stem eliminates rotation between plug & seat at closure. This prevents scoring and galling up the valve seat and ensure long life in repetitive shut off service.
- Packing below stem threads prevents stem lubrication washout and isolate threads from system fluids.
- Hard seat designed to reduce packing friction giving very low torque operation.
- Packing material – PTFE / Crafoil.

SYPHON



Introduction :-

Syphons are designed to protect pressure instruments from high-temperature process media by reducing steam temperature before it reaches the measuring device. Elite Flow Engineering syphons provide a simple, reliable, and maintenance-free solution for safeguarding pressure gauges, transmitters, and switches from heat damage.

Manufactured from high-grade stainless steel and precision-formed for optimal thermal dissipation, our U-type and pigtail syphons ensure long service life, accurate measurement, and safe operation across steam, chemical, and industrial applications.

Features:-

One-piece seamless tubing construction ensures high strength and long service life.

Precision-formed coil / U-bend design provides effective heat dissipation and protects gauges from high-temperature media.

Heavy-duty threads are machined to international standards for secure, leak-tight installation.

Corrosion-resistant stainless steel material ensures reliable performance in steam, chemical, and industrial applications.

Smooth internal bore design maintains stable pressure transmission and prevents blockage.

Available in multiple configurations (U-Type / Pigtail Type) to suit various installation requirements.

Construction:-

Manufactured from SS-316 / SS-304 seamless pipe for maximum strength and corrosion resistance.

THERMOWELL



Introduction:-

Thermowells are protective housings designed to shield temperature sensors from direct exposure to process media, pressure, and flow. Built from high-strength stainless steel, Elite Flow Engineering thermowells ensure accurate temperature measurement, extended sensor life, and safe operation in demanding industrial environments.

Construction:-

Manufactured from SS316/SS304 solid bar stock, precision-machined for maximum strength, corrosion resistance, and accurate temperature protection.

FLANGES



Introduction:-

Flanges provide a secure and reliable method for connecting pipes, valves, and equipment in industrial piping systems. Manufactured from high-strength stainless steel, Elite Flow Engineering flanges ensure leak-proof joints, easy assembly, and long-term durability in high-pressure and high-temperature applications.

Construction:-

Manufactured from SS304/SS316 solid stainless-steel forgings as per ASTM standards for maximum strength and corrosion resistance.

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