

Product Range & Expertise

Safety Equipments

Flow Measuring Instruments

Level Measuring Instruments

Process and Control Equipments

Pressure and Vacuum Measuring Instruments

Since When ..?

Serving Global Demands of Industries Since 2002.

Our Products have been proven foothold in the industries with the durable Quality and Premium Servicing on Time. We have been preferred choice for the customer since their first business & after sales experience with us. Fidicon has Major Market Share in the India and we have been exporting products overseas to major countries such as USA, UAE, Indonesia, Brazil, Russia, Canada, Middle East, Europe Etc.

Product Catalogue



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Note : Majority of the Products can be customized to meet the customer requirements, such as fusion of two or more products, specific test bench designs, specific flow, pressure or working temperature requirements in conventional product, etc. for better experience, consult our sales team to guide you throughly.



About us

"Journey of a thousand miles begins with a single step" is a famous saying. Our story also started with the first step taken by our founder way back in the year 2002 when he left the comfortable life of a well to do company employee in Mumbai & took the challenge of setting up something of his own. This started from Ankleshwar on a humble note then but with a vision to be somebody in near future serving the demanding needs of large Indian & Multinational Chemical, Pharmaceutical, Petrochemical and other industries and strive to put forward a global footprint. He put efforts tirelessly with the help of his team of engineers and managers- which resulted in making FIDICON a brand to reckon with. Over the years they had kept on adding new products, solving not only urgent maintenance and servicing needs of clients but also helping them in indigenizing their components providing similar or better quality at a considerable cost benefits. Today FIDICON is not only fulfilling the needs of local markets but does considerable of its business from exports to Middle East, North America (USA & Canada), Europe etc. These include Process Control, Safety Equipment & Measuring Instruments like Breather Valves, Flame Arresters, Safety Relief Valves, Pressure Reducing Valves, Pressure Reducing Stations, Strainers, Pipe Line Strainers, Sight Flow Indicators, Manometers, Side & Top Mounted Level Switches, Gauge Hatches, Metal Tube Rotameters, Glass Tube Rotameters, Purge Rotameters, By Pass Rotameters, Orifice Flange Assemblies, Liquid Level Indicators and many more.

Our Vision

To make FIDICON DEVICES INDIA PVT. LTD a world class manufacturer and preferred choice of worldwide customers for our Process Control, Measuring Instruments, Safety Equipment and accessories by putting all out efforts employing best business experiences through relationship built on integrity, success built on performance, fueled by a commitment for continual improvement personally & professionally and make FIDICON a brand to reckon with in the world.

Our Mission

- To organize and utilize all resources like human resource, technology, management systems, infrastructure & finance in creating FIDICON DEVICES INDIA PVT. LTD as a world class manufacturing company.
- To create an organization where creativity, innovation, modernization go parallel with design, manufacturing, inspection, testing and quality assurance activities applying TQM in principle in all our activities.
- Be a good corporate citizen abiding by the statutory and regulatory requirements of the government of countries where we plan to operate in.
- Put all our efforts in keeping the environment clean and employing excellent control mechanism for safety & health of people involved in all our activities for all the time as an ongoing process.
- Our human resource to be the driving force for achieving day to day & all the above targets.

Our QEHS Policy

We the team of Fidicon, engaged in the business of manufacturing and delivering of Process Control, Measuring Instruments, Safety Equipment & accessories and are committed to following for our QEHSMS Performance.

- Understand & identify the needs, requirement and expectation of our valued customers and interested parties.
- Consistently supply right quality products abiding to right manufacturing practices.
- Comply with all the applicable statutory and regulatory requirements.
- Strive to achieve utmost satisfaction of all interested parties through continual improvement in operations and QEHS Management Systems.
- Conserve energy, natural resources, raw material and others by the way of effective operations, selection of efficient and environment friendly technology as far as possible and effective waste management.
- Effective management of various risks and opportunities involved in maintaining the QEHS performance of organization. Reduce environmental incidents and harm to people and damage to property.
- Maintain the knowledge needed for performing of organizational processes by imparting training, spreading awareness and appropriate involvement of working people.
- Develop, implement, maintain and continually improve the effectiveness of the QEHS Management System in accordance with standard requirements (ISO 9001, ISO 14001 and ISO 45001).

Research and Development

- Research and Development Tasks, whose all the process begins with customer or user's perspective and their needs, it takes off further with the thought process of, how we can solve this and make their process more easier?
- We believe that well designed products are not just for end consumer products but industrial goods as well. In fact it is in most demanding work conditions such as a factory or a plant where good designed products can make a difference to life of the user. Fidicon has a dedicated internal industrial design team which assures that all new product developments at work premises meet technical specifications along with their intended purpose in the simplest, convenient and aesthetically pleasing manner.
- Our history demonstrates our true competitive advantages. We offer unrivalled product reliability and customer service, especially where site-specific planning or design is required.
- Our team is happy to offer tailored solutions, based on years of industry knowledge and expertise. As each situation is different you can rest assured that we will always propose the safest, most appropriate solution for your unique application. We are delighted that customer referrals and word-of-mouth have become 'our most effective salesman' over the years.
- Fidicon is Constantly making impact in Customer's Regular Needs, as will continue to do so, by offering our upcoming Next Generation of All Devices and Instruments with Patented and Most Rugged Design with huge technical information to track and Minimize all of your production losses. Initiating the launch of products by 2025.



Flame Arrester (In of Line, Bi-Directional) FDI - FA - 707

It is a passive safety device, often known as a last line of defense mechanism against the hazardous explosions in the process pipeline. It extinguishes the explosion traveling at super sonic speed or above, absorbing the heat, quenching the flame in the flame bank, prepared for specific chemicals properties and their maximum experimental safe gap. Construction of the flame arrester is robust and it is used in between the pipeline near to the potential source of the explosion. It works in the both direction (bi-directional).

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 1200 mm
- **Types :** Deflagration, Detonation | **Geometry :** Concentric / Eccentric
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 500,000+ Nm³/Hr of Air at NTP.
- **Pressure Rating :** up to 250 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accessories :** Steam Jacketing, RTD Sensor Mounting, Pressure Sensors, Etc.
- **Certifications :** ATEX Compliance, CSIR - CIMFR, ISO 16852 (Zone, 0, 1, 2), IS 11006, CE Compliance



Rupture Disc FDI - RD - 703

It also known as a pressure safety disc, burst disc, bursting disc, or burst diaphragm, is a non - reclosing pressure relief safety device that, in most uses, protects a pressure vessel, equipment or system from over pressurization or potentially damaging vacuum conditions. Rupture Disc comes in basic three type : Planner Type, Reverse Buckling, Forward Buckling, However there are many additional features can be added upon them.

- **Material of Construction :** SS 316 L, SS 316, SS 304, SS 321 etc. as per customer requirements.
- **Size :** 15 mm up to 32" (800 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 500,000+ Nm³/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 200 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** up to 95% & Flowrates as per API 2000 / 520 / 526 / 527
- **Operating Range :** Approx. (<=) 70% of the Set Burst Pressure for Planner Type Disc.
- **Accessories :** Burst Alarm - Transmitter, RD with Pressure Gauge
- **Certifications :** CE Compliance



Breather Valve cum Flame Arrester FDI - BVFA - 708 - 707

The assembled unit of the Flame Arrester and Breather Valve, both maintains their principle of working. The tank remains protected against the rupture and implosion through the breather valve and the process tank remains protected against the explosion, this valve is used as a proxy to the emergency relief valve / vent, and designed and sized according to the Emergency Venting Requirements for the Fire Exposure vs the Wetted Surface Area of the Tank as per API 2000 & ISO 16852, based on the Tank Dimensions and its Capacity, a wrong sized valve will not allow sufficient flow capacity hence tank will have more chance of explosion & rupture as the exhaust is limited. While selecting valve take our experts advice.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 32" (800 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 500,000+ Nm³/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 25 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** Seat Tightness, Leaks, Blowdown Acceptance as per API 2000.
- **Certifications :** ATEX Compliance, CSIR - CIMFR, ISO 16852 (Zone, 0, 1, 2), IS 11006, CE Compliance



Breather Valve (Pressure & Vacuum Relief Valve) FDI - BV - 708

For Normal Venting of the Process or Storage Tanks, it Actuates on Certain Set Pressure and Set Vacuum Settings and Allows Tank Breathing with the Atmosphere. the Actuation of valve works on principle of Pascal's Law, where Force = Pressure * Area, the sealing of the seat and the pressure / vacuum pallets is critical based on the working fluid of the process. This device is designed & sized based on the API 2000 Standard.

- **Material of Construction :** M.S., CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 32" (800 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 100,000+ Nm³/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 25 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** Seat Tightness, Leaks, Blowdown Acceptance as per API 2000.
- **Certifications :** CE Compliance
- **Pressure Drop :** (<=) 25 % of the Set Pressure / Vacuum.



Breather Valve Flame Arrester (Inbuilt Type) FDI - BVFA - 717

This safety device is a preferred and cost friendly choice when the flow requirement is low, & the Occurrence of the flame / explosion is very rare such as Zone 2 - Gas Group, valve is sized according the API 2000, Normal Breathing Requirements, and the Flame Bank Ensures the Flames are Extinguished. Flame Bank is made from Assembly of Crimped Ribbon Layer + Plain Layer, sized to the IEC 60079 - MESC Requirements of the Chemical Specified by the customer.

- **Material of Construction :** M.S., CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 12" (300 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 100,000+ Nm³/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 25 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** Seat Tightness, Leaks, Blowdown Acceptance as per API 2000.
- **Certifications :** CE Compliance
- **Pressure Drop :** (<=) 25 % of the Set Pressure / Vacuum.



Flame Arrester (End of Line, Bi-Directional) FDI - FA - 706

For Storage Tanks and at the End of the Pipeline where the application involves free vent to atmosphere, this category of End of Line Flame Arrester is a preferred choice, the process gases, are non toxic, yet have explosive nature, the process tanks are protected against any unpredicted hazards. selection of the flame arresting type shall be as per ISO 16852.

- **Material of Construction :** M.S., CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 1200 mm
- **Types :** Deflagration, Detonation | **Geometry :** Concentric
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 500,000+ Nm³/Hr of Air at NTP.
- **Pressure Rating :** up to 250 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accessories :** Steam Jacketing, RTD Sensor Mounting, Pressure Sensors, Etc.
- **Certifications :** ATEX Compliance, CSIR - CIMFR, ISO 16852 (Zone, 0, 1, 2), IS 11006, CE Compliance



Gauge Hatch (Dip Hatch) FDI - GH - 709

Gauge Hatch provides tank access where manual level gauging, temperature measurements, or sampling is required. the foot pedal allows the operator to open the hatch whilst remain the hands free to carry out the required measurement. Gauge Hatch can be also act as Emergency Relief Vent as per API 2000, if there is abnormal pressure inside. Gauge Hatch have the Locking Nuts to keep the Top Lid Closed while not in the use.

- **Material of Construction :** M.S., CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 32" (800 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 500,000+ Nm³/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 200 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** Seat Tightness, Leaks, Blowdown Acceptance as per API 2000.
- **Certifications :** CE Compliance
- **Pressure Drop :** Approx. (<=) 25% of the Set Pressure / Vacuum.



Breather Valve (Pipeway Type) FDI - BV - 712

Pipeway Type of Breather Valve is specifically preferred choice when the service medium has toxic in nature gas or vapour contents, so it is required to transfer the vent chemicals to the safe location. It does also have the vacuum port nozzle for nitrogen blanketing feature. it works on the principle of the pascal's law, where Force = Area * Pressure. Seat Tightness & selection of materials are critical requirement as application demands bubble tight - leakproofing.

- **Material of Construction :** M.S., CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 32" (800 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 500,000+ Nm³/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 25 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** Seat Tightness, Leaks, Blowdown Acceptance as per API 2000.
- **Certifications :** ATEX Compliance, CSIR - CIMFR, ISO 16852 (Zone, 0, 1, 2), IS 11006, CE Compliance
- **Additional Features :** Flame Arresting, Pressure Port Isolation for Nitrogen Purging.
- **Pressure Drop :** Approx. (<=) 25% of the Set Pressure / Vacuum.



Breather Valve (Pressure Only) FDI - BV - 713

Unlike Conventional Breather Valve, which works on both Pressure and Vacuum Relief Needs, Pressure Only - Type Breather Valves works on the specific one port of relief only. Functionality and the working principles remains same for the product.

- **Material of Construction :** M.S., CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 32" (800 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 500,000+ Nm³/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 25 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** Seat Tightness, Leaks, Blowdown Acceptance as per API 2000.
- **Certifications :** ATEX Compliance, CSIR - CIMFR, ISO 16852 (Zone, 0, 1, 2), IS 11006.
- **Pressure Drop :** Approx. (<=) 25% of the Set Pressure / Vacuum.



Safety Relief Valve FDI - SRV - 703

Pressure Safety Valve, or Pressure Relief Valve works on principle of the Pascal's Law, however difference is in the actuation type which is done using spring type and it's design, the Pressure Safety Valve is Snap Acting Type of the Valve, valve opens quickly against flow rate, well as the Pressure Relief Valve Acts Gradually with respect to the Flowrate and Actuation remains linear. This Type of Direct Acting Valve are conventional and preferred choice of the customers.

- **Material of Construction :** M.S., CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 32" (800 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Orifice Sizing Customized, 500,000+ Kg/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 200 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** Seat Tightness, Leaks, Blowdown Acceptance as per API 2000.
- **Certifications :** ATEX Compliance, CSIR - CIMFR, ISO 16852 (Zone, 0, 1, 2), IS 11006, CE Compliance, IBR Approved.
- **Pressure Drop :** Approx. (<=) 10% of the Set Pressure / Vacuum.



Breather Valve (Vacuum Only) FDI - BV - 714

Unlike Conventional Breather Valve, which works on both Pressure and Vacuum Relief Needs, Vacuum Only - Type Breather Valves works on the specific one port of relief only. Functionality and the working principles remains same for the product.

- **Material of Construction :** M.S., CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 32" (800 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 500,000+ Nm³/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 25 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** Seat Tightness, Leaks, Blowdown Acceptance as per API 2000.
- **Certifications :** CE Compliance
- **Pressure Drop :** Approx. (<=) 25% of the Set Pressure / Vacuum.



Emergency Relief Valve FDI - ERV - 701

Emergency Relief Valve are designed and used for Venting Required for Fire Exposure with Process or storage tanks. It is designed as per to the customer's Tank Specifications such as Tank Type, Geometry, Capacity, Tank Dimensions, Process Chemical Properties etc. Design and Performance Conformance are according to API 2000 Std.

- **Material of Construction :** M.S., CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 32" (800 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 500,000+ Nm³/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 210 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** Seat Tightness, Leaks, Blowdown Acceptance as per API 2000.
- **Certifications :** CE Compliance.
- **Pressure Drop :** Approx. (<=) 25% of the Set Pressure / Vacuum.



Variable Area Flowmeter FDI - VAFM - 209

Variable Area Flowmeter is a Magnetically Actuated Flowmeter which indicates the results of Flow on the LCD Display, the Transmitter sends 4 to 20mA Signal to the PLC for Minimum and Maximum Flowrates as specified by the Customer, working principle is based on change of magnetic flux and it is sensed by Precision Calibrated Hall Effect Sensor, the differential induced emf is proportional to the velocity of the flow that passes through the annulus area between float head and tapered tube. product is easy to install, maintain and configurable as per customer requirements.

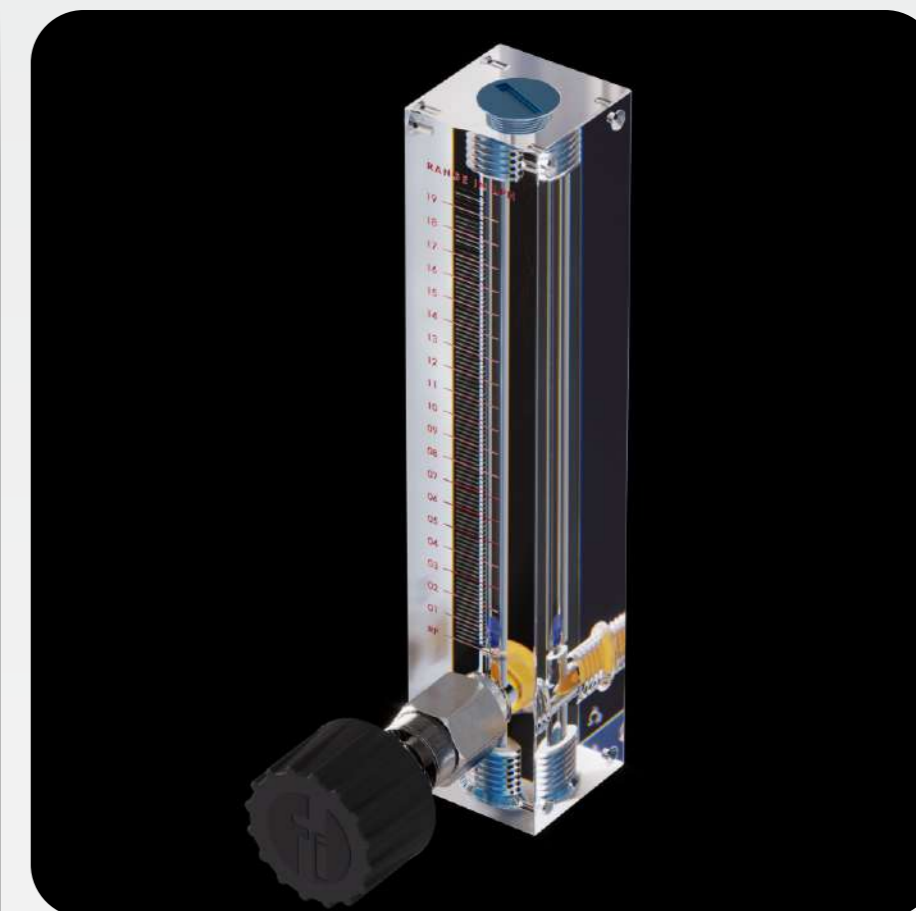
- **Material of Construction :** M.S., CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 200 mm
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 100,000+ LPH of Water at Ambient Temperature.
- **Pressure Rating :** up to 25 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Additional Features :** with High / Low Switch, On Touch Display Totalizer, Flameproof Enclosure, IP65 Waterproof Rated
- **Accuracy :** within (+/-) 1.5% of Full Scale Reading
- **Certifications :** CE Compliance



Metal Tube Rotameter (Analog) FDI - MTR - 201

This Instrument works on principle of Magnetic Flux, a Float contains series of permanent magnets, of which assembly moves in restricted up and down motion which generates moving magnetic flux , thus relative internal gauge mechanism turns and shows reading of flow relative to float height, scale are calibrated using our in house state of art test bench results.

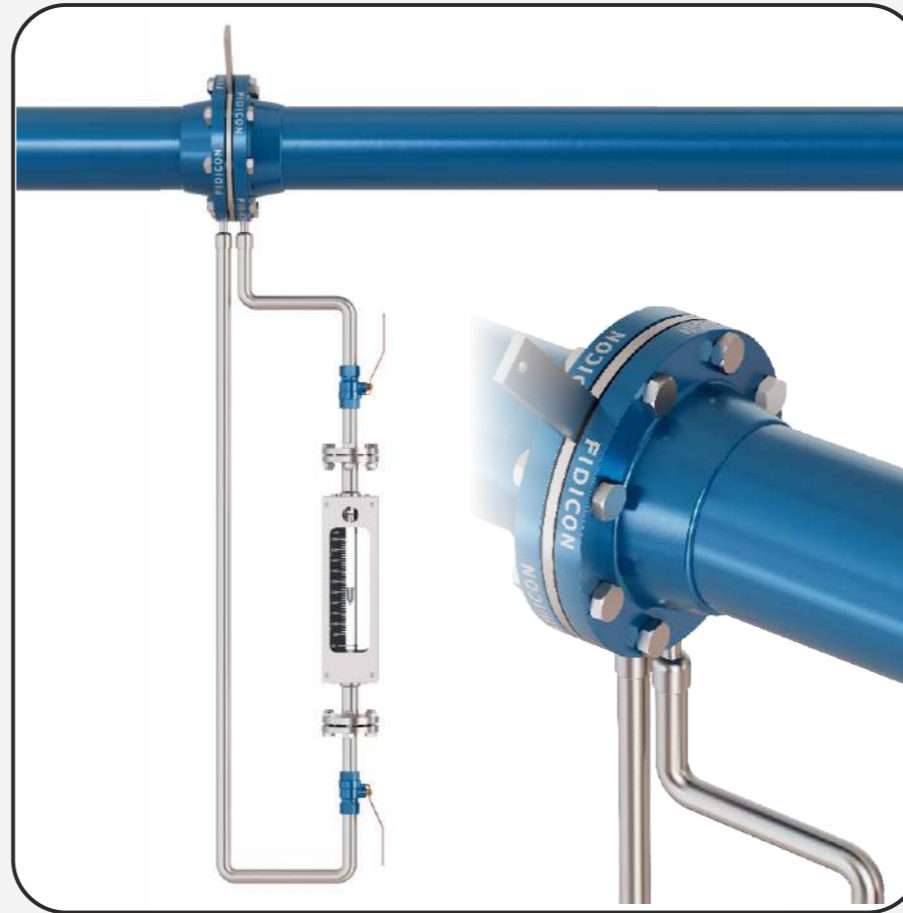
- **Material of Construction :** M.S., CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 250 mm
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 100,000+ LPH of Water at Ambient Temperature.
- **Pressure Rating :** up to 25 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** within (+/-) 1.5% of Full Scale Reading
- **Accessories :** Steam Jacketing, High and Low Flow Alarms, 4-20 mA Transmitter
- **Certifications :** CE Compliance



Low Flow Rotameter FDI - LFR - 203

This Instrument Works on similar principle as Glass Tube Rotameter, the wetted body parts are made of acrylic. Scale is directly engraved on the body suitable for measurement of low flow rate of fluid. Float is prepared for low flow rate & very low pressure drop is needed to lift the float for the readings, float remains, stable during the operation, and design is safe against most of the applications.

- **Material of Construction :** Acrylic, Stainless Steels, PP / PTFE, etc. as per customer requirements.
- **Size :** up to 1" (25 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** 0 to 150 LPH of Water & upto 4000 Kg/hr of air at Ambient Temperature.
- **Pressure Rating :** up to 10 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T2 Class, - (300 Degree Celsius)
- **Accessories :** Built in Needle Valve, DP Regulator, High and Low Switch for Alarms.
- **Accuracy :** within (+/-) 1.5% of Full Scale Reading
- **Certifications :** CE Compliance



By Pass Rotameter FDI - BPR - 204

By Pass Rotameter is arrangement of the Glass Tube Rotameter, which is connected to the heavy flow pipeline of steam or chemicals in parallel connection which is introduced in to line by orifice plate assembly which helps to induce the desired pressure drop. pressure drop are not permanent and are designed such a way that pressure is regained up to 95%. the follow up pressure differential is used to lift the float inside the glass tube rotameter, the device will measure the flow rate of steam line by proportionality gradient. relative to d/D ratio of the pipeline. By pass rotameter can be manufactured for horizontal or vertical arrangements

- **Material of Construction :** M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 25 mm up to 1200 mm
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 500,000+ Nm³/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 25 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accuracy :** within (+/-) 1.5% of Full Scale Reading
- **Certifications :** CE Compliance



Orifice Flange Assembly FDI - OFA - 206

Orifice Plate or Meter Works on principle of Bernoulli's theorem and that is the sum of all the energy at a point 1 is equal to the sum of all the energy at point 2. Different Types such as; **Eccentric Orifice Plate:** It is used for measuring fluids who carry small amount of or gases with small amounts of liquid and non-abrasive solids. It has a round opening (bore) tangent to the inside wall of the pipe. **Conical Orifice Plate:** Conic Edge orifice plate is useful for lower Reynolds numbers. It has a 45° bevel facing upstream into the flowing stream. **Segmental Orifice Plate:** The segmental plate is also used for measuring fluids that is liquid or gases carry non-abrasive impurities such as light slurries or exceptionally dirty gases. **Quadrant Orifice Plate:** This orifice is used for high viscosity Fluids.

- **Material of Construction :** M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** up to 32" (800 NB)
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Orifice Sizing Customized, 500,000+ Kg/Hr of Air at Ambient Temperature.
- **Pressure Rating :** up to 25 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Certifications :** CE Compliance



Electro Magnetic Flowmeter FDI - EMF - 210

Electromagnetic Flowmeter is a Magnetically Coil Actuated Flowmeter which works based on Faraday's Law, Coil generates the electromagnetic field which is interrupted by the moving fluid in the Flowmeter. As a result a EMF is generated and is sensed by the electrodes and this potential difference is translated in the Flowrate and showcased on the display, transmitter is used to convert and provide the output to PLC compatible 4-20 mA DC Current. Flowmeter has lining which isolates the possible electric current - shocks.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 200 mm
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 100,000+ LPH of Water at Ambient Temperature.
- **Pressure Rating :** up to 25 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T2 Class, - (300 Degree Celsius)
- **Additional Features :** with High / Low Switch, On Touch Display Totalizer, Flameproof Enclosure, IP65 Waterproof Rated
- **Accuracy :** within (+/-) 1.5% of Full Scale Reading
- **Certifications :** CE Compliance



Glass Tube Rotameter FDI - GTR - 202

This Instrument can be preferred to use against measuring the fluids that are opaque in nature with operation having temperature up to T2 / T3 Class. it is cost friendly option and direct readings are taken on scale. The Assembly contains of the Float that can be of any shape such as Ball, Plumb Bob Type, Spool type, Streamlined, Density compensating, Semi-Viscosity Compensating, Viscosity Compensating, with guided and non-guided type as per fluid properties. Flow is Directly Proportional to the Pressure Drop across the "annulus area" - which is area between float head and tapered glass tube, of which readings on scale are prepared & calibrated at Our Fidicon Facility.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm up to 150 mm
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** 0 to 60,000 LPH of Water at Ambient Temperature.
- **Pressure Rating :** up to 15 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T2 Class, - (300 Degree Celsius)
- **Accuracy :** within (+/-) 1.5% of Full Scale Reading
- **Certifications :** CE Compliance



Acrylic Body Rotameter FDI - ABR - 205

This Instrument Works on similar principle as Glass Tube Rotameter, the Wetted Body Parts are made of Acrylic, Scale is directly engraved on the body suitable for measurement of low flow rate of fluid. Float is prepared for moderate flow rate, & float remains stable during operation with the guide installed for float, and design is safe against most of application. Taper inside the Acrylic Body Block & Float are prepared according to the flow requirements of the user application.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 15 mm to 150 mm
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** 0 to 50,000 LPH of Water at Ambient Temperature, & 500 Nm³/hr of Air
- **Pressure Rating :** up to 10 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T2 Class, - (300 Degree Celsius)
- **Accuracy :** within (+/-) 1.5% of Full Scale Reading
- **Certifications :** CE Compliance



Pressure Control Valve FDI - PRV - 704

Pressure Reducing or Pressure Control Valve, is to control pipeline pressure to the pre - set value in water system and building service application, valve maintains preset downstream pressure regardless of the upstream pressure of flow fluctuation. valve works on principle of the Pascal's law of Force = Area * Pressure, the Seat - Orifice Area is Calculated on basis of API 520 / 526 / 527.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" to 24"
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Capacity :** 0 to 500,000+ LPH of Water, at NTP.
- **Pressure Rating :** up to 200 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accessories :** Steam Jacketing, with Pressure Gauge, Etc.
- **Other Models :** a Fully Customized Pressure Control / Reduction System with Bypass Lines, Prepared according to Reduction Needs (Model No. FDI - PRS - 716), Enquire Us for Details.
- **Certifications :** CE Compliance



Back Pressure Reducing Valve FDI - BPRV - 705

Unlike the Pressure Reducing Valve, the Back Pressure Reducing Valve works on the Upstream Pressure Control, the pilot connection is taken from downstream line. it maintains upstream pressure by adjusting the set pressure to the desired value, the valve design is diaphragm based, and keeps the flow smooth steady, against the fluctuations from the downstream side pipeline flow.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" to 24"
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Range :** Customized, 500,000+ LPH of Water at Ambient Temperature.
- **Pressure Rating :** up to 200 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accessories :** Steam Jacketing, with Pressure Gauge, Etc.
- **Certifications :** CE Compliance



Air Header FDI - AH - 715

Air Header is a simple device to distribute the air line to the multiple different destinations from the single source of the Gas / Vapour or Chemicals. The construction is rugged and comes with the standard ball valves, a fully customized product according to the flow requirement and the Number of sources and destinations. Generally Air Header is made of 1/8, 1/16 (in/out) ports.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/4" to 8"
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating :** up to 200 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Certifications :** CE Compliance



Pressure Reducing Station FDI - PRS - 716

Pressure reducing station is fully fledged system developed based on the customer requirements of the pressure reduction ratio and flow requirement. This system uses the multiple safety relief valves, control valves, pressure gauges, gate / globe valves, flowmeter, etc. All products used in the station are Fidicon Make Products and uses International Standards for Design and Testing Conformance. PRS is widely used in major industries as a test bench and distribution center for fluid.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" to 6"
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Flow Capacity :** 0 to 500,000+ Nm³/hr of Air/Water as requested.
- **Pressure Rating :** up to 200 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Accessories :** Steam Jacketing, with Pressure Gauge, Flowmeter, Transmitters, Strainers, etc.
- **Certifications :** CE Compliance



Sight Flow Indicator (Double Window Type) FDI - DWSFI - 207

It is most conventional product and widely used when it comes to physically see the flow of the service fluid in motion as well as to visually verify the color, debris or any contaminants in the service fluid for inspection. It is considered as heavy duty product when the operating process pressure may rise & fluctuate above up to 160 kg/cm².

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1" up to 16"
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating :** up to 160 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **Performance :** Seat Tightness, Leakproof Class (V)
- **Certifications :** CE Compliance



Full View Sight Glass FDI - FVSFI - 208

A widely used product when it comes to physically see the flow of the service fluid in motion as well as to visually verify the color, debris or any contaminants in the service fluid for inspection. It is considered as medium duty product when the operating process pressure may rise & fluctuate up to 12+ kg/cm².

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1" up to 6"+
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating :** up to 15 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T2 Class, - (300 Degree Celsius)
- **Performance :** Seat Tightness, Leakproof Class (V)
- **Certifications :** CE Compliance



Y - Type Strainer FDI - YTS - 211

Y - Type Strainer is Very Convenient Equipment for Moderate Flow Requirement with Medium Duty of Operation Hours, equipment is very handy in terms of the operation and cleaning the Mesh Strainer Assembly, comparably Light weight regarding to other equipments. it is generally preferred by customers when the installation of strainer is placed at the lower vertical reach, or by operation of strainer unclogging by 45 degree.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" up to 32"+
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating :** up to 200 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **% Open Area :** Flow Capacity is Min. (>200%) of the Inlet Area.
- **Mesh Size :** 20 / 40 / 60 - Microns - as per customer requirements.
- **Certifications :** CE Compliance



Basket Type Strainer FDI - BTS - 213

Strainer in basic terminology is instrument that keeps the processing fluid clean from the contaminants, Basket Type Strainer is easy to install, repair, maintain the clean flow as well as it is very preferred option for very moderate flow contaminants occurrence, along with heavy flowrate requirements. the construction of basket strainer is heavy duty equipment and can be used in high pressure and high temperature situations.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" up to 32"+
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating :** up to 200 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **% Open Area :** Flow Capacity is Min. (>500%) of the Inlet Area.
- **Mesh Size :** 20 / 40 / 60 - Microns - as per customer requirements.
- **Certifications :** CE Compliance



Duplex Type Strainer FDI - DTS - 215

Strainer in basic terminology is instrument that keeps the processing fluid clean from the contaminants, Duplex Type Strainer is Assembly of Combined Two Basket Strainers with the heavy flow rate needs to be accomplished the construction of strainer is heavy duty equipment and can be used in high pressure and high temperature situations. Product Assembly contains Two Ball Valve which can be used to maintain & operate between two different fluids as well as when there is need to isolate the process for maintenance.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** Customized, from 1/4" up to 32"
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating :** up to 200 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **% Open Area :** Flow Capacity is Min. (>500%) of the Inlet Area.
- **Mesh Size :** 20 / 40 / 60 - Microns - as per customer requirements.
- **Certifications :** CE Compliance



Conical Type Strainer FDI - CTS - 210

Strainer in basic terminology is instrument that keeps the processing fluid clean from the contaminants, Conical type Strainer is very basic tool that is used with common applications and fluids such as water and Solvents etc. the very easiness of the product is considered as the installation in between the pipelines on the raised face of the two flanges that occupies less space and does the job. it can be also used for manual job.

- **Material of Construction :** M.S., CS, Stainless Steels, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/4" up to 12"
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating :** up to 40 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **% Open Area :** Flow Capacity is Min. (>200%) of the Inlet Area.
- **Mesh Size :** 20 / 40 / 60 - Microns - as per customer requirements.
- **Certifications :** CE Compliance



T - Type Strainer FDI - TTS - 214

T- Type Strainer is Very Convenient Equipment for Moderate Flow Requirement with Medium Duty of Operation Hours, equipment is very handy in terms of the operation and cleaning the Mesh Strainer Assembly, comparably Light weight regarding to other equipments. it is generally preferred by customers when the installation of strainer is placed at the higher vertical reach, or by operation of strainer unclogging by 90 degree.

- **Material of Construction :** WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" up to 32"+
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating :** up to 120 Kg/cm², as per customer request.
- **Temperature Rating :** Upto T1 Class, - (450 Degree Celsius)
- **% Open Area :** Flow Capacity is Min. (>200%) of the Inlet Area.
- **Mesh Size :** 20 / 40 / 60 - Microns - as per customer requirements.
- **Certifications :** CE Compliance



Side Mounted Heavy Duty Tubular Level Indicator

FDI - SMTLG - 301

Basic Measuring Instrument works as per Pascal's law, pressure applied to an enclosed fluid will be transmitted without a change in magnitude to every point of the fluid and to the walls of the container. Instrument is very simple in terms of the working mechanism, indicates the level of fluid in the tank on the glass tube with measurements taken in mm of height. For precise measurement values which is then compared with the tank level & capacity calibration chart that customer already have by the notified body.

We also provide tank capacity calibration charts by the actual dimensional measurements of the tank provided behalf of customer or by specially allotting our service engineer for multiple tank enquiries.

- **Material of Construction :** M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" to 4" for Connections , & Center to Center Distance up to 5000 mm
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Design Pressure Rating :** up to 6 Kg/cm²
- **Temperature Rating :** Up to T2 Class, - (300 Degree Celsius)
- **Certifications :** CE Compliance



Reflex Level Gauge

FDI - RLG - 302

Level Measuring Instrument works as per Pascal's law, pressure applied to an enclosed fluid will be transmitted without a change in magnitude to every point of the fluid and to the walls of the container. Instrument is very simple in terms of the working mechanism, indicates the level of fluid in the tank on the toughened glass with measurements taken in mm of height. Reflex level gauge is considered as heavy duty product. for precise measurement values which is then compared with the tank level & capacity calibration chart that customer already have by the notified body.

- **Material of Construction :** M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" to 4" for Connections , & Center to Center Distance up to 10000 mm
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Other Features / Types :** Reflex Level Gauge Transparent Type (FDI - RILT - 403)
- **Design Pressure Rating :** up to 75 Kg/cm²
- **Temperature Rating :** Up to T1 Class, - (450 Degree Celsius)
- **Certifications :** IBR Approved, CE Compliance



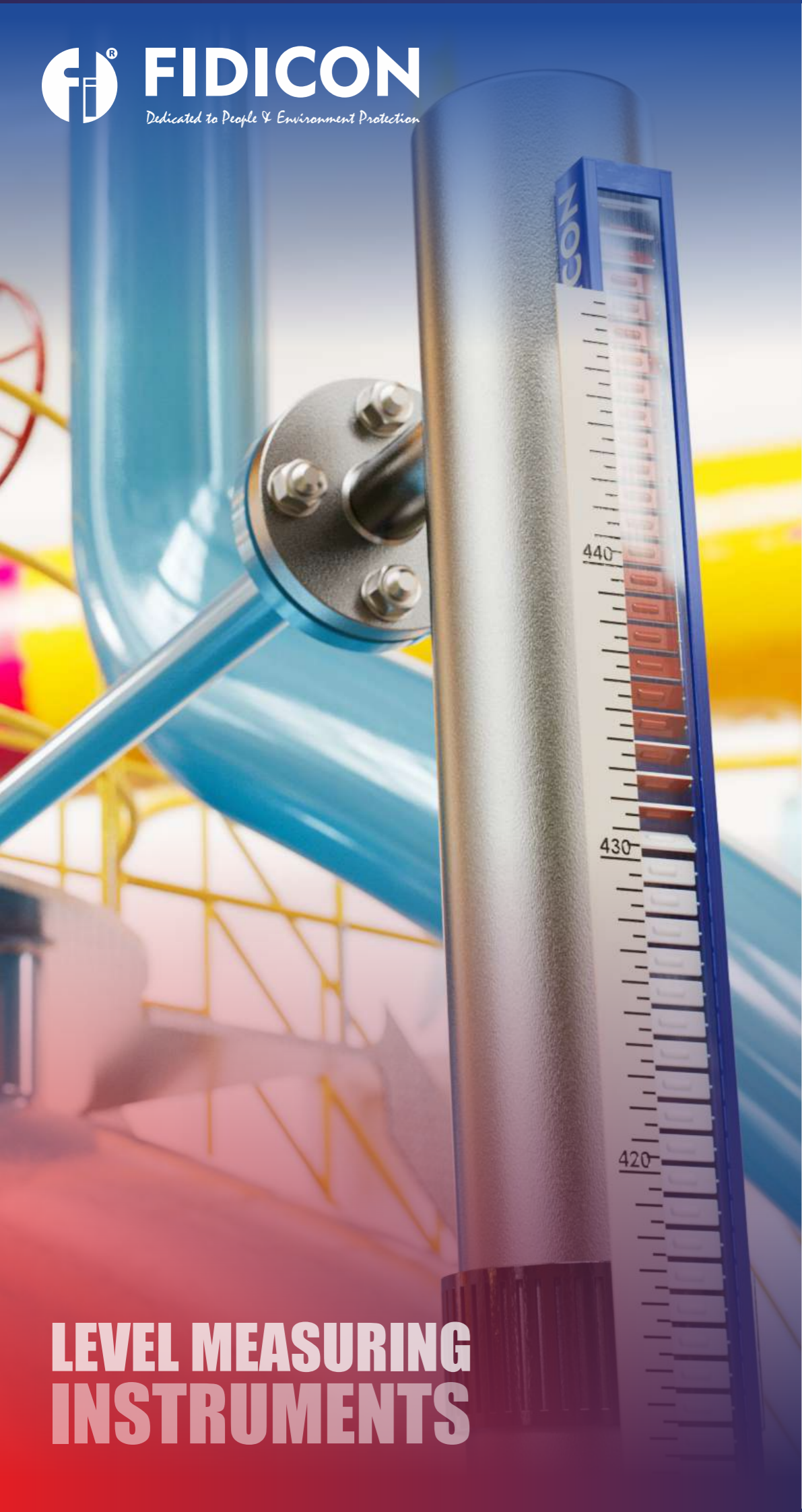
Float and Board Level Indicator

FDI - FBI - 401

- Float and Board Level Indicator has simple rope pulley mechanism of working, the float has construction such way it stabilizes on the fluid inside the tank, Float consists of minimum two guide wire rope that keeps float movement linear and non twisting. Float is attached with wire rope using dog clamps and rope is mounted over the two pulley assembly which have free movement; other end of the rope is attached with the roller guided pointer bracket that moves freely over the board, this board has printed scale which shows the distance of fluid upside - down due to the reverse float movement. the guide wires used are hooked with our fixture plate which is attached with the tank bottom surface by means of welding of using anchor fastening.

- This instrument is preferred when the process fluid can be used with open atmosphere. For pressurized and closed environment, customer shall prefer magnetic type of the same product.

- **Material of Construction :** M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1" to 4" for Connections , & Tank Height up to 50 Meter
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Design Pressure Rating :** upto 5 Kg/cm², | **Operation :** ATM.
- **Temperature Rating :** Up to T1 Class, - (450 Degree Celsius)
- **Certifications :** CE Compliance



LEVEL MEASURING INSTRUMENTS



Float and Board Magnetic Level Indicator (Vapour Seal)

FDI - MVSTL - 402

Float and Board Magnetic Level Indicator is preferred choice among the customers for tanks having pressurized system process with possible chance having toxic nature of the fluid. This instrument is also known as vapour seal type of float and board level indicator. flow indicating Capsule Float / Bi-Flappers, does not have direct contact with the fluid. Product assembly has a Chamber in which a Magnetic Float is inserted, which attracts the Capsule Float / Bi-Flappers and it shows the readings on the scale. this Magnetic Float in chamber travels up and down motion by using rope and pulley mechanism, which is connected with the main float inside the tank by rope and dog clamps. two guide wire ropes used with the float to keep it steady & non - twisting. it is fixed by plate with the tank bottom plate / surface by means of anchor & fasteners.

- **Material of Construction** : M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size** : 1" to 4" for Connections , & Tank Height up to 50 Meter
- **Connection** : Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Design Pressure Rating** : upto 15 Kg/cm², | **Operation** : up to 10 Kg/cm²
- **Temperature Rating** : Up to T2 Class, - (300 Degree Celsius)
- **Certifications** : CE Compliance



Side Mounted Magnetic Level Indicator

FDI - SMLI - 501

Magnetic Level Measuring Instrument works as per Pascal's law, pressure applied to an enclosed fluid will be transmitted without a change in magnitude to every point of the fluid and to the walls of the container. Instrument has two different working chambers, one which has bigger float and gets in contact with the fluid, Magnetic Level Indication is categorized in two types of mechanism as, **(1) Bi-Flapper Type** which flips the direction when there is change of magnetic flux field and **(2) Magnetic Roto Bi-Color Capsule** which gets attracted and travels along with the chamber float in parallel, as result the change or level is compared with the scale of the product.

We also provide tank capacity calibration charts by the actual dimensional measurements of the tank provided behalf of customer or by specially allotting our service engineer for multiple tank enquiries.

- **Material of Construction** : M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size** : 1" to 4" for Connections , & Tank Height up to 10 Meter
- **Connection** : Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating** : upto 25 Kg/cm², as per customer request.
- **Temperature Rating** : Up to T2 Class, - (300 Degree Celsius)
- **Certifications** : CE Compliance



Top Mounted Magnetic Level Switch

FDI - TMLW - 505

Top Mounted Level Measuring Instrument works based on Pascal's law and buoyancy principle is the upward force a fluid exerts on an object. Magnetic Float is made in shape of the Sphere which rests on the top of fluid surface and it keeps travelling in upward & downward directions as fluid level varies respectively. this float may be more than one depends upon the multi point switching required, it provides high / low / multipoint switching by magnetically actuated reed switches in the guide pipe of the product assembly.

- **Material of Construction :** M.S., Stainless Steels, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" to 4" for Connections , & Tank Height up to 10 Meter.
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating :** up to 15 Kg/cm², as per requirement.
- **Temperature Rating :** Up to T2 Class, - (300 Degree Celsius)
- **Input / Output :** 24 VDC / 240 VAC / Loop Powered, 4-20mA
- **Certifications :** CE Compliance



Capacitance Level Switch & Transmitter

FDI - CLT - 504

As name defines, capacitance means material or matter's property to able to store the electric charge in the body of itself, the capacitors use thin metal layers that are isolated by dielectric medium by means of material / fluid or any other substance. the capacitance level indicators works In such manner it has measuring rod that is generally charged and the other layer for capacitance is considered as tank's wall that is used. the distance between the sensor rod and the tank wall is filled with the fluid which acts as dielectric medium. as the fluid level rises in tank capacitance between tank wall and sensor rod increases and vice versa. capacitance level indicator. Device shall be used only with the fluids for which it is rated and ordered, change in dielectric constants of the fluid will results in irregularities with output. for such case devices shall be adjusted with range, span and zero settings for calibration.

- **Material of Construction :** M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" to 4" for Connections , & Tank Height up to 15 Meter.
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating :** up to 25 Kg/cm², as per request.
- **Temperature Rating :** Up to T1 Class, - (450 Degree Celsius)
- **Features / Types :** Barrel Type for Non-Metallic Tanks, High & Low Switching
- **Input / Output :** 24 VDC / 240 VAC / Loop Powered, 4-20mA
- **Certifications :** IBR Approved, CE Compliance



Displacer Level Switch

FDI - DLS - 603

Displacer Level Switch works based on buoyancy principle is the upward force a fluid exerts on an object. Archimedes' Principle is the fact that buoyant force is equal to the weight of the displaced fluid. the "Displacer" is a floating deadweight which keeps the spring mechanism loaded, as the level of fluid rises the weight of the displacer is suspended and it actuates the spring mechanism. The mechanism for actuation and switching is based on LVDT sensor, it means for Linear Variable Differential Transformer which in simplified term called inductive transducer. the magnetic core moves as per weight suspension received due to rise and fall of fluid level, primary core is applied with Input AC Voltage, Output coil is calibrated to operate in the 4 to 20mA current range. Number of Displacers weights are used as per the Level at which switching is required by the customer.

- **Material of Construction :** M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" to 4" for Connections , & Tank Height up to 15 Meter.
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating :** up to 15 Kg/cm², as per request.
- **Temperature Rating :** Up to T1 Class, - (450 Degree Celsius)
- **Input / Output :** 24 VDC / 240 VAC / Loop Powered, 4-20mA
- **Certifications :** CE Compliance



Top Mounted Level Indicator (Direct Indication)

FDI - TMLI - 502

Top Mounted Level Measuring Instrument works based on Pascal's law and buoyancy principle is the upward force a fluid exerts on an object. Archimedes' Principle is the fact that buoyant force is equal to the weight of the displaced fluid. The Float is made in shape of the Capsule which stays on the top fluid surface level and it keeps travelling in upward & downward directions as fluid level varies respectively. the float is connected with the indicating capsule and it shows the direct level in comparison with the scale.

We also provide tank capacity calibration charts by the actual dimensional measurements of the tank provided behalf of customer or by specially allotting our service engineer for multiple tank enquiries.

- **Material of Construction** : M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size** : 1/2" to 4" for Connections , & Tank Height up to 10 Meter.
- **Connection** : Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating** : up to 6 Kg/cm², as per requirement.
- **Temperature Rating** : Up to T2 Class, - (300 Degree Celsius)
- **Certifications** : CE Compliance



Top Mounted Magnetic Level Indicator

FDI - TMML - 503

Top Mounted Magnetic Level Indicator works based on Pascal's law and buoyancy principle is the upward force a fluid exerts on an object. Archimedes' Principle is the fact that buoyant force is equal to the weight of the displaced fluid. The Float is made in shape of the Capsule which rests on the top of fluid surface and it keeps travelling in upward & downward directions as fluid level varies respectively. the float is connected with the indicating magnetic capsule inside the chamber which attracts the indication mechanism which are either of two : (1) Bi-Color Capsule and Borosilicate Glass Tube, & (2) Bi-Flappers which flips and changes side of the colour by shift of magnetic field density, such that way mechanisms shows the level of fluid in tank in comparison with the scale. Preferred for Fluids having hazardous nature and pressurized system is implemented.

- **Material of Construction** : M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size** : 1" to 4" for Connections , & Tank Height up to 10 Meter
- **Connection** : Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating** : upto 15 Kg/cm², as per customer request.
- **Temperature Rating** : Up to T1 Class, - (450 Degree Celsius)
- **Certifications** : CE Compliance



Fork Type Level Switch

FDI - FLW - 507

Fork Type Level Switch is resonance frequency based devices which is actuated using piezo - electric elements, when the fork is experiencing a material or any medium interrupting its frequency response, the feedback signal will change on the receiving end. this difference is used to provide signal and range of 4 to 20 mA signals to the user. the advantage of the fork type level switch instrument is it can be used with solids, liquids, this makes it to the list of all type of storage and process equipments.

- **Material of Construction :** Stainless Steels, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/2" to 6" for Connections
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Input / Output :** 24 VDC & 240 VAC / Loop Powered, 4 - 20mA.
- **Enclosure :** Waterproof - IP65 / Ex-Proof
- **Design Pressure Rating :** up to 25 Kg/cm²
- **Temperature Rating :** Up to T1 Class, - (450 Degree Celsius)
- **Certifications :** CE Compliance



Side Mounted Magnetic Level Switch

FDI - SMMLW - 506

Side Mounted Magnetic Level Switch Operates using a float acting as a lever, which rise and fall with the change in level of the tank fluid. at end of the lever mechanism a isolated switch is actuated by the rod having permanent magnets which triggers the limit switch assembly. This can be used to operate audio / visual signals or other equipment with trigger.

- **Material of Construction :** Stainless Steels, Hastelloy C, etc. as per customer requirements.
- **Size :** 1" to 4" for Connections
- **Connection :** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Design Pressure Rating :** upto 10 Kg/cm², | **Operation :** ATM.
- **Temperature Rating :** Up to T1 Class, - (450 Degree Celsius)
- **Input / Output :** 24 VDC & 240 VAC / Loop Powered, 4 - 20mA.
- **Enclosure :** Waterproof - IP65 / Ex-Proof
- **Switch Types :** Micro, SPDT, DPDT
- **Certifications :** CE Compliance



LEVEL MEASURING INSTRUMENTS



Top Mounted Magnetic Level Indicator with Transmitter

FDI - TMMLW - 508

Top Mounted Magnetic Level Indicator works based on Pascal's law and buoyancy principle is the upward force a fluid exerts on an object. Archimedes' Principle is the fact that buoyant force is equal to the weight of the displaced fluid. The Float is made in shape of the Capsule which rests on the top of fluid surface and it keeps travelling in upward & downward directions as fluid level varies respectively. the float is connected with the indicating magnetic capsule inside the chamber which attracts the indication mechanism which are either of two : (1) Bi-Color Capsule and Borosilicate Glass Tube, & (2) Bi-Flappers which flips and changes side of the colour by shift of magnetic flux, such that way mechanisms shows the level of fluid in tank in comparison with the scale. Preferred for Fluids having hazardous nature & pressurized system is implemented. it is equipped with transmitter in parallel to know the level.

- **Material of Construction** : M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size** : from 1" up to 4", & Tank Height customized up to 10 Meter.
- **Connection** : Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating** : upto 15 kg/cm² | **Operation** : upto 10 Kg/cm²
- **Temperature Rating** : upto T1 Class - (450 Degree Celsius)
- **Input / Output** : 24 VDC & 240 VAC / Loop Powered, 4 - 20 mA
- **Certifications** : CE Compliance



Side Mounted Magnetic Level Indicator with Transmitter

FDI - SMMLIT - 303

Magnetic Level Measuring Instrument works as per Pascal's law, pressure applied to an enclosed fluid will be transmitted without a change in magnitude to every point of the fluid and to the walls of the container. Instrument has two different working chambers, one which has bigger float and gets in contact with the fluid, Magnetic Level Indication is categorized in two types of mechanism as, (1) **Bi-Flapper Type** which flips the direction when there is change of magnetic flux field and (2) **Magnetic Roto Bi - Color Capsule** which gets attracted and travels along with the chamber float in parallel, as result the change or level is compared with the scale of the product.

It is equipped with the transmitter with the parallel chamber which used to know the level of fluid in the tank.

- **Material of Construction** : M.S., WCB / CS, Stainless Steels, PVC / PP / PTFE - Teflon Lined, Glass-Ceramic Lined, Hastelloy C, etc. as per customer requirements.
- **Size** : from 1" up to 4", & Tank Height customized up to 10 Meter.
- **Connection** : Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating** : upto 15 kg/cm² | **Operation** : upto 10 Kg/cm²
- **Temperature Rating** : upto T1 Class - (450 Degree Celsius)
- **Input / Output** : 24 VDC & 240 VAC / Loop Powered, 4 - 20 mA
- **Certifications** : CE Compliance

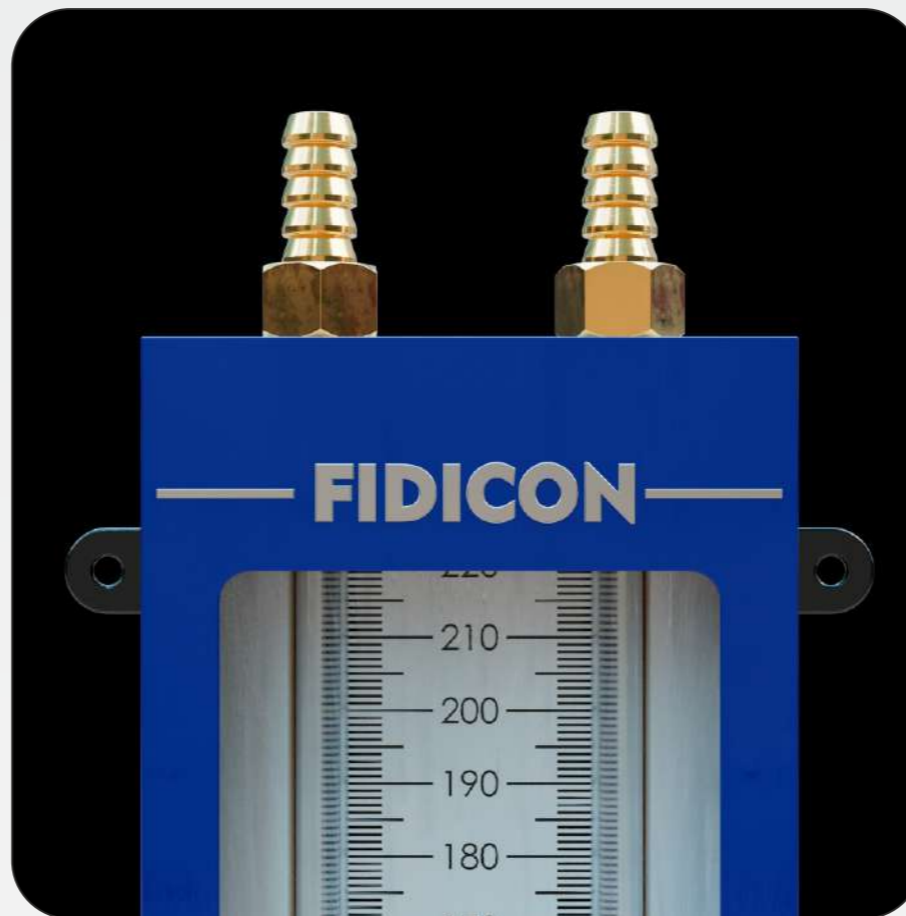


Inclined Tube Manometer

FDI - ITL - 901

Inclined tube manometer is simple and cost friendly instrument which is used to measure the differential pressure. It consists of two limbs: a vertical limb that acts as a reservoir and generally has a higher volume, and another limb at an inclined angle used for measurement along the scale. The inclination angle provides the opportunity to operate with a wide range of pressure; the higher angle is preferred for high pressure range and similar with low pressure range. Pressure measurement is given by $P = L \cdot \rho \cdot g \cdot \sin(\theta)$.

- **Material of Construction :** Acrylic, Toughened Glass, PVC / PP / PTFE etc.
- **Size :** 1/8" mm up to 1/2"
- **Connection :** Screwed / Hose Nozzle etc. | **Mounting :** Wall Mount
- **Range :** 0 - 12 mmWC / 0 - 150 mmWC
- **Design Pressure Rating :** up to 5 Kg/cm².
- **Temperature Rating :** Upto T3 Class, - (200 Degree Celsius)
- **Accessories :** Spirit Level
- **Accuracy :** +/- 0.5% of Full Scale
- **Certifications :** CE Compliance



U - Tube Manometer

FDI - UTM - 902

U - Tube Manometer is a simple device to measure the pressure difference in the air flow line. The toughened glass tube column is filled with a reference liquid, which is mercury or water. When the glass tubes of the device are exposed to the atmosphere, the liquid levels in the limbs are equal and this indicates atmospheric pressure. When one of the columns is connected to a pressure vessel, there will be a difference in the liquid levels in the limbs, which signifies the pressure of the liquid in the vessel. This type of manometer does not have any moving parts.

- **Material of Construction :** M.S., Stainless Steels, PVC / PP / PTFE - Teflon Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/8" to 1/2" - Customized as per customer requirement
- **Connection :** Screwed / Hose Nozzle etc.
- **Range :** -1000 to 1000 mmWC - customized as per requirement.
- **Design Pressure Rating :** up to 5 Kg/cm².
- **Temperature Rating :** Up to T3 Class, - (200 Degree Celsius)
- **Accessories :** Overfill Protection Capsule
- **Accuracy :** +/- 0.5% of Full Scale
- **Certifications :** CE Compliance



Single Limb Manometer

FDI - SLM - 903

This instrument has a reservoir with a much larger area than that of the manometer tube, and the level variation in the reservoir is negligible to the rise in level in the manometer tube. It is used for the precision measurement of pressure, vacuum, differential pressure for flow and liquid level measurement.

In general, it consists of stainless steel fittings, glass limbs mounted on a metallic frame, provided with a white acrylic / aluminum scale with zero at the bottom. The manometer will be protected with a transparent front cover, and an external zero adjustment knob will be provided.

- **Material of Construction :** M.S., Stainless Steels, PVC / PP / PTFE - Teflon Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/8" to 1/2"
- **Connection :** Screwed / Hose Nozzle etc.
- **Mounting :** Wall Mount / Stand Mount
- **Design Pressure Rating :** up to 5 Kg/cm²
- **Temperature Rating :** Up to T3 Class, - (200 Degree Celsius)
- **Range :** 0 to 1000 mmWC, Customized as per requirement.
- **Accuracy :** +/- 0.5% of Full Scale
- **Certifications :** CE Compliance



Absolute Manometer FDI - AM - 905

Absolute manometers use a sealed leg that permits only one leg of the manometer tube to be exposed to the outside pressure. On the sealed side, a vacuum condition exists which represents absolute zero pressure sealed by a column of mercury. This device is used to measure last stage vacuum with highest accuracy in labs or testing facilities with multiple domain of industries.

- **Material of Construction :** M.S., Stainless Steels, PVC / PP / PTFE - Teflon Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/8 " up to 1/2 "
- **Connection :** Screwed / Hose Nozzle etc.
- **Design Pressure Rating :** up to 3 Kg/cm², | **Operation :** ATM
- **Temperature Rating :** Upto T2 Class, - (300 Degree Celsius)
- **Range :** 50 to 50 mmHg | 100 to 100 mmHg | 150 to 150 mmHg
- **Accuracy :** +/- 0.5% of Full Scale
- **Certifications :** CE Compliance



Macleod Gauge FDI - MG - 904

Macleod gauges operate by taking in a sample volume of gas from a vacuum chamber, then compressing it by tilting and infilling with mercury. Raising the mercury level in the Macleod gauge seals off the gas from the system to which the gauge is connected. When the level of mercury is raised further, the gas is compressed. This instrument is used to measure very low pressures, down to 10⁻⁶ Torr (1.33 mPa). It was invented in 1874 by Herbert MacLeod. Macleod gauges were once commonly found attached to equipment that operates under vacuum, such as a lyophilizer.

- **Material of Construction :** M.S., Stainless Steels, PVC / PP / PTFE - Teflon Lined, Hastelloy C, etc. as per customer requirements.
- **Size :** 1/8 " up to 1/2 "
- **Connection :** Screwed / Hose Nozzle etc.
- **Design Pressure Rating :** up to 3 Kg/cm², | **Operation :** ATM
- **Temperature Rating :** Upto T2 Class, - (300 Degree Celsius)
- **Range :** up to 0.001 mmHg
- **Accuracy :** +/- 0.5% of Full Scale
- **Certifications :** CE Compliance

CERTIFICATIONS & APPROVALS



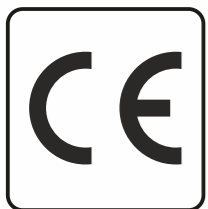
ISO 9001, 14001 & 45001 : Quality Management Systems, Environmental Management Systems, Occupational Health and Safety Management Systems,



ATEX Compliance : for Flame Arresters, Design, Manufacturing & Performance Testing as per EN ISO 16852, in accordance with (2014 / 34 / EU) ATEX Directive.



IBR Approval : for Reflex Level Gauge, Strainers, & Pressure Safety Valves.



CE Approval :
Pressure Equipment Directive – 2014/68/EU,
Measuring Instruments Directive – 2004/22/EC



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