

Process Control Instruments



Decide with Confidence



An ISO 9001 : 2015 Certified Company

FLOW INDUSTRIES

Our Range of Products

- *Metal Tube Rotameter*
- *Glass Tube Rotameter*
- *Purge Rotameter*
- *By Pass Rotameter*
- *Orifice Flange Assemblies*
- *Liquid Level Indicators*
- *Side & Top Mounted Level Switches*
- *Manometers*
- *Sight Flow Indicators*
- *Flame Arrestors*
- *Breather Valve*



GLASS TUBE ROTAMETER (Model No.FI -GTR -301)



Designed on variable area basis using tapered borosilicate glass tube pressure rating at 15kg/cm² temp at 150 °

Fluid : Liquids & Gases

Design Temperature :Up to 150°C
Design Pressure: Up to 15 Kg/cm²
Depending on Model Measuring Range 15 to 30,000 LPH of Water/Liquid & 0.1 to 750 Nm³/hr of Air/Gas at NTP
Line Size :Up to 4" NB
Available Materials : MS/CS/SS304/SS304L /SS316/SS316L/ PTFE lined MS or SS
Connection : Flanged to ASA/BS/DIN/ Triclover Standard Screwed to BSP/NPT(M/F)

Accuracy: ±2% of full flow
Accessories : High & Low Flow Alarms.

METAL TUBE ROTAMETER (Model No.FI -MTR -302)



Suitable for measuring flow rate for Translucent opaque liquid, gases under high temp. & pressure
Fluid :Liquids & Gases

Design Temperature :Up to 150°C
Design Pressure : Up to 25 Kg/cm²
Measuring Range :100 to 100000 LPH of Water/Liquid 2000 m³/hr for Air/Gas at NTP
Line Size :Up to 4" NB
Available Materials:SS304/SS304L/SS316/SS316L/ PTFE lined on SS
Connection: Flanged to ASA/BS/DIN/ Triclover Standard Screwed to BSP/NPT(M/F)
Accuracy:±2% of full flow
Enclosure:Weather proof, IP-65
Accessories 1 Steam jacketing

2 high & low flow alarms,
3 Transmitter with 4-20 mA Output,
4 Digital Flow Rate Indicator / Totaliser

LOW FLOW ROTAMETER (Model No.FI -LFR - 303)



Suitable for measurement of low flow rate of liquid & gases

Fitting : Top / Bottom /Rear/ as per Requirement in S.S. Screwed nozzle or Hose pipe Connection are offered on request.

Material of Const : A) Borosilicate glass tube fitted in S.S. 304/ Wettd parts S.S. 316.

B) Fabricated with clear & Unbreakable perspex plastic body, scales are directly engraved on tapered position.

Range : Between 0.5 to 150 LPH of water of ambient temp 15 to 4000 LPH of air at NTP

Accuracy : +2% full scale reading
Accessories : 1 Built in Needle valve

2 D P Regulator
3 High & Low Flow Alarms

BY PASS ROTAMETER (Model No. FI-BPR 304)



Suitable for high range of fluid in pipeline between 2" or above upto 300 mm NB Where on line rotameter cant be used. It Consist of one orifice plate to be mounted in the pipe line between two flange. One more integral Orifice with two inlet & outlet & one by pass Rotameter is provided to read.
Direct flow

Material of Wetted part : MS./CS/S.S.304/SS-316

Material of

Orifice : S.S.304/SS 316

Range : 25 to 800 M³/Hr of water

Accuracy : + 1.5% F.S.R.

- 1) Isolation valve
- 2) High & low flow alarms.
- 3) With 4-20 mA two wire transmitter
- 4) Digital Totaliser.

ORIFICE FLANGE ASSEMBLIES (Model No.FI - OFA - 305)



Orifice plate are designed as per BSS Standards 1042 part 1964 on IS Standard. Flanged are available as per customer's Specification, orifice plate along with flanges are suitable for installation in 50 NB and above pipe lines sizes and can be provided in wide variety on material.

SIDE MOUNTED TUBULAR LEVEL GAUGE (Model No.FI -TLG - 308)



Tubular level gauge directly indicates liquid level in atmospheric or pressurised tanks. It is a simple and reliable device mounted Parallel along the side of tank

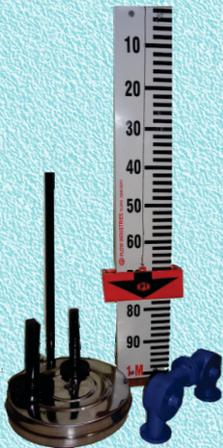
Material of
Wetted part : CS/S.S.304/S.S.-316/ PP
PVC/ RUBBER Teflon Linned
Glass Tube : Heavy Wall borosilicate glass
19 mm
Pressure rating: 10 kg /cm
Range : 0-3 meter
Scale : M/S Engraved on Acrylic/
Alum / SS / graduated in cm
Features : isolation valves of C S/ S.S.304
S.S.316 / P.P.

REFLEX LEVEL GAUGE (Model No.FI -RLG -309)



Suitable for High temp & Press application & Corrosive colourless under critical condition
Liquid Chamber : CS/S.S.304/S.S.-316 PTFE
Cover Plate : CS/ MS/ SS
End Fitting : CS/S.S.304/S.S.316 PTFE
Nut Bolts : Alloy Steel
Glass : Toughned Borosilicate / Klinger / Illmadur
Packing : Neoprene / Caf/ Teflon
Valve Body : S.S. 304 / S.S. 316
Press : 75kg/cm
Temp : 300 C.
Range : 0-3 meter

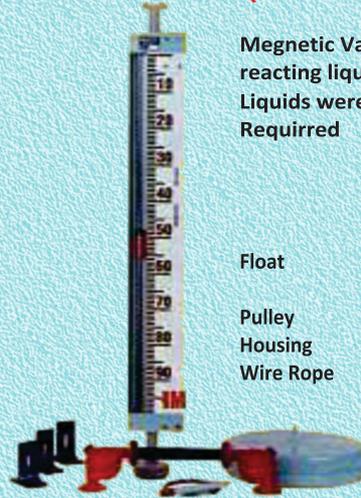
FLOAT AND BOARD LEVEL GAUGE (Model No.FI -FBLG -310)



Suitable for Measurement of Liquid level in over ground / over head storage tanks, Usually consists, of float dust proof pulley housing, pointer cradle with nylon & 150 mm wide aluminium scale with screen printed marking

Float : S.S.304/S.S. 316 / PP/ F.R.P.
Teflon Linned
Pulley : Alluminium /P.P./Nylon./S.S.
Housing : Aluminium / P.P./etc.
Wire Rope : S.S.304/ S.S.316/P.P./Teflon

FLOAT AND BOARD TYPE MAGNETIC LEVEL GAUGE (Model No.FI -FBMLG -311)



Magnetic Vapour Sealing Type Suitable for reacting liquids HCL, HNO, NH₄OH and other Liquids where absolute vapour tightness is Required

Float : S.S.304/S.S. 316 / PP/ F.R.P.
Teflon Linned
Pulley : Alluminium /P.P./Nylon./S.S.
Housing : Aluminium / P.P./etc.
Wire Rope : S.S.304/ S.S.316/P.P./Teflon

TOP MOUNTED LEVEL GAUGE (Model No. FI-TMLG-312)



Suitable for continuous level indication of horizontal. Underground tank, containing very hazardous & corrosive liquid in nature.

Material of
Wetted part : S.S.304/S.S. 316/ PP/PVC/
Material of Float : S.S.304/S.S. 316/ PP/PVC/
Teflon Linned
Range : 0-4 Meters bi-colour type
0-3.5 Meter capsule type
pressure Range : 20 kg/cm²
Temp Rating : 350 C for Teflon or 60 C for PP

SIDE MOUNTED MAGNETIC LEVEL GAUGE (Model No. FI-SMLG-313)



Suitable for Continuous level indication of fuming liquid which attacks glass very corrosive and hazardous liquid S.S. Float which is equipped with alnico magnet moves up and down along with the level increase or decrease. The float magnet movements are magnetically coupled to the follower out chamber which is enclosed in a glass tube.

Material of
Wetted part : S.S.304/SS-316 / PP/PVC/PTFE
Material of Float : S.S.304/SS-316 / PP/PVC
teflon Linned
Range : 0-4 meters bi-colour flappers type
0-5 meter capsule type
Pressure Rating : 40kg/cm²
Scale : M/C/ Engraved on backlite
anodised aluminium sheet
graduated in cm
Features : 1) Low & High Level alarm
2) 4-20mA transmitter
3) Digital Indicator

CABLE FLOAT SWITCHES (Model No. FI-CFS 322)



- Low cost polypropylene level switch
- * Hermetically moulded, double chamber
 - * Mercury free operated micro switch
 - * Direct pump control up to 1.1 kW
 - * Adjustable switch differential
 - * Low specific weight of the floating body

MINI LEVEL SWITCHES (Model No. FI-LS 323)



Side mounted subminiature level switch. Material of construction-SS 316. Float diameter -28mm. Process connection- 1/4" BSP(M) thread with locknut. PTFE Teflon gasket. Mounting Hole diameter-13mm. SPST Reed switch rated 100VA, maximum switching voltage-230 VAC/300 VDC, maximum switching current-1 Amp. With 1 Metrelong 19/36 SWG Teflon insulated flying extension leads. Maximum working pressure- 4 kg/sq.cm & Temperature-125 deg C. Specific gravity-0.5 Contacts are potential free, NO, NC or CO contacts can be provided.

SIDE MOUNTED MAGNETIC LEVEL SWITCH (Model No. FI-LS-319)



Side mounted magnetic level switch on side of nozzle of the tanks, float position changes with the level switch in turns the half of magnetic coupling change the switch contacts

Available size : 40 NB TO 100 NB

Material of wetted parts : SS 304/ SS 316 / PP
SS / PTFE COATED

DISPLACER LEVEL SWITCH (Model No. FI-DLS-321)



Displacer Level Switch, which is integrated with latest features that ensure better results and functioning. These Displacer Level Switches are the most versatile for level control and control agitated liquids paints- varnishes & heavy oil and foaming liquids. Moreover, these Level Switch are flange mounted and are available with a choice of material of construction.

Micro Switch Operated rated at 5 or 15 Amp 220 VAC Standard up to 15 meter length

Material of wetted parts: SS 304/SS 316/PP/PTFE Displacer

Displacer: Single/Multiple Displacers, max up to 3 displacers
Differential: 70 mm (maximum)

MAGNETIC LEVEL TRANSMITTER (Model No. FI-MLT-325)



Avail from us, superior quality Liquid Level Transmitter, which is used for continuous level indication and control for any liquid that is chemically compatible with its wetted parts. Our range of Liquid Level Transmitters is duly checked on different parameters at each level of production process in order to deliver a flawless range of Liquid Level Transmitter to the clients.

Measuring Range 3 meters max.

4-20 mA O/P-2, 3 or 4 wire

Customized Length up to 3 Mtrs

Wetted Parts SS304, SS316 or PP

Terminal Enclosure Cast Aluminium, weather proof to

IP 56/65 and Ex. Proof For Gr. II A & II B/ Gr IIC

Resistance/ Reed switch Contact Chain, Max. 3 Mtr Length

Max. Temperature 60°C (PP) / 90°C (SS)

Process Connection Flanged to BS/ ANSI/ ASA/DIN

TOP MOUNTED MAGNETIC LEVEL SWITCH (Model No. FI-TLS-320)



Top Mounted Magnetic Level Switch Suitable for automatic operation of pumps gives change over contact at predetermined level step less adjustment of switching point entire range without interrupting to process. Switching contact arthritically sealed in glass hence safe and totally protecting them from, Surroundings of wetted parts : SS 304/S.S.316/PP/PVC Top Mounted Magnetic Level Switch Casing : Weather proof/Flame proof

Max. Pressure Up to 20 Kg/cm² and 80 Deg^o C temperature Can be wired directly with low load, use control (Relay) unit for high resistive/inductive loads

**U- TUBE MANOMETER
(Model No. FI-UTM -317)**



U-Tube type primary standard manometer used for precision measurement of pressure, vacuum, differential pressure, and flow measurement in plants & labs where certain accuracy is required. measurement in plants & labs where certain accuracy is required. wall mounted & stand mounted Available Range 50-0-50 to 250-0-250 mm in acrylic body

Available Range 100-0-100 , 150-0-150 , 250-0-250 ,300-0-300 ,500-0-500 , 750-0-750 , 1000-0-1000 mm in Metallic Body

**SINGLE LIMB DIRECT READING MANOMETER
(Model No. FI-SLM -318)**



Single limb well type direct reading Manometer for the precision measurement of pressure vacuum differential pressure flow and liquid level measurement
Range : Between 0-4000 mm WC/HG,
Available in wall mounted and stand mounted with level adjustment screws

**INCLINED TUBE MANOMETER
(Model No. FI-ITM 316)**



Inclined Manometers utilise expanded scales for unusual sensitivity for fast, easy reading of low pressure. draft of small differential pressure. They are available in simple standard Models as well as extreme precision inclined Manometer.

Range In MM ::• 0 - 5, 0 - 10, 0-20, 0-25, 0-50, 0-100, up to 0 -200

**DOUBLE WINDOW DRIP TYPE FLOW INDICATORS
(Model No. FI-DBL-306)**



Suitable for highly pressure temp. Available Size 1/2" to 6" Wetted parts, C.S/SS 304/SS316 PP/PTFE

**FULL VIEW SIDE FLOW
(Model No.FI--FVI-307)**



Suitable for where max. visibility. Available Size 1/2" to 6" Wetted parts, C.S/SS 304/SS316 PP/PTFE

Macleod Gauge (Model No. FI-MG-324)



This is the absolute measuring instrument for vacuum which gives pressure exerted by permanent gases. The gauge works on the principle of Boyle's law of gases. Two parallel capillary tube are connected to a common mercury bowl. The rise of mercury column in the capillary gives the vacuum in mm/hg

Mc-leod gauges measures absolute vacuum in its very last stages

Range : 1 0 mm. to 0.001 torr)
2 Torr to 0.001 Torr

**ACCESSORIES
WELD PAID , AIR HEADER &
CONDENSATE POTs,
Available in various size**



**FLAME ARRESTORS
(Model No.FI-FA-314)**



Flame Arresters are safety device designed to extinguish or check the travel of flame in pipelines and ducts and to prevent flame spreading from them into or out of plant and equipment. Available in sizes from 1" to 12" Elements are stainless Steel with a cast aluminium, Carbon steel or stainless steel Casting

**BREATHER VALVE
(Model No.FI -BV - 315)**



Pressure & Vacuum relief Valve is Designed not only for Product Vapour Conservation but also to allow tank breathing. The Pressure and vacuum function are combined in one fitting which is available in $\frac{1}{2}$ " - 12" (40 mm to 300 mm)

The Standard body materials are aluminium alloy for 2", 3", and 6" sizes and cast steel 8", 10", 12" sizes.

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FLOW INDUSTRIES

Mfgs : Process Control & Measuring Instruments

Plot No. 115, Yogi Industrial Estate, GIDC, Ankleshwar-393 002 Dist. - Bharuch (Gujarat) India

Ph : 02646- 252413 Telefax- 02646-250412 Cell : 98244 66603 / 98245 66603

Email : sales@flowindustries.com / flow.industires@yahoo.com

Website : www.flowindustries.com / www.flowindustries.in

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