Flow Meters
Flow Switches
Flow Indicators
Flow Totalisers
Strainers

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FLOW METERS

ELECTROMAGNETIC FLOW METER (EFM)

FEATURES
- High accuracy
- Insignificant pressure drop
- Bidirectional flow
- SS construction
- No moving parts
- 3 line LCD backlit display
- Multiple communication protocols
- Process connection as per ASME / EN / AWWA / JIS
- Built-In diagnostics

APPLICATIONS
- Water and Wastewater
  Water purifier, fluid metering, chemical dosing
- Chemical Industries
  Chemical feed control
- Food and Beverage Industries
  Water treatment, chemical dosing
- Pharmaceutical Industries
  Process control
- Iron and Steel Industries
  Chilled water control
- Oil and Gas
  Wastewater

Conductivity: 20 μs / cm (minimum)
Accuracy: ± 0.5% of measured value (Typical)
Flow velocity: 1 to 10 m³/s
Display: 7 segment LCD with backlight
Temperature: Max 160°C (as per lining material)
Pressure: Max 20 bar
Line size: 1” to 4”
Process connection:
  Flange type
  Tri-clover type
  Sandwich type

Material
- Body: SS316
- Measuring tube: SS316
- Electrodes: SS316, Hastelloy, Titanium
- Grounding ring: SS316
- Liners: Hard Rubber, PTFE, PFA, Neoprene

Output
- 4~20mA, Pulse and Relay output

Communication
- Modbus, HART (Optional)

Power supply
- 24V DC / 230 V AC

Transmitter housing design
- Integral mount & remote mount
FEATURES
- Accurate and repeatable measurement
- SS construction for good corrosion resistance
- Fast response time & high resolution
- Wide temperature Range upto 150°C
- High turndown ratio with extendable flow range
- Inbuilt tubular flow straightener
- Long bearing
- MODBUS, HART protocol

APPLICATIONS
- Solvents
- Petroleum products
- Potable/Demineralized water
- Coolants
- Hydraulic and gear oils
- Low conductivity liquids

### TURBINE FLOW METER (TFM)

#### BASIC
- Accuracy ± 0.65% of span (5 points)
- Repeatability ± 0.2% or better
- Turn down ratio 10:1
- Flow velocity 1 to 5 m/s (for calibration)
- Temperature Ambient : -20 to +55°C
- Process : -20°C to +150°C
- Viscosity Maximum 20000cp
- Ambient humidity 5 ~ 90%RH
- Operating pressure 10 to 15 Bar

#### MECHANICAL
- Meter size DN25 to DN80
- Process connection Standard : Flange Type
  Optional : Threaded, Tri-Clamp type
- Flowmeter body MOC Standard : SS316 / SS316L
  Optional : SS304, SS304L

#### OUTPUT
- Flow output 4-20mA,isolated
- Load resistance 600 Ohm (Transmitter)
- Communication a) RS485/Modbus RTU  b) HART
- Measured parameters Flow, Velocity, Totalizer

#### POWER
- Supply 24 V DC
- Power consumption 0.2

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### TURBINE FLOW METER SIZING

<table>
<thead>
<tr>
<th>Type</th>
<th>Nominal Diameter (mm)</th>
<th>Standard Flow Range Water (m³/hr)</th>
<th>(LPM)</th>
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<tbody>
<tr>
<td></td>
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<td>Min @ 1 m/sec</td>
<td>Max @ 5 m/sec</td>
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<tr>
<td>TFM 25</td>
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FLOW TOTALISERS

FLOW TOTALISER

Monitoring and Controlling
Continuous as well as
Batch Flow Processes

- 4 Setpoints / Relays
- Isolated 4-20 mA output
- Isolated RS485/MODBUS RTU

FLT601
6-digit Rate Indicator,
8-digit Totaliser

STRAINERS

- Large straining capacity
- Corrosion & Rust resistance
- Finer filtration with proper alignment
- Available with different MOC
- Easy installation

Y-STRAINER

FLANGED TYPE, ½" TO 12", SCREWED & SOCKETED, ½" TO 2" CAST STEEL & CAST STAINLESS STEEL

TEE STRAINER

FLANGED / BUTTWELDED, 4" TO 24" CARBON STEEL & STAINLESS STEEL

DUPLEX STRAINER

FLANGED TYPE, 2" TO 12 CARBON STEEL & STAINLESS STEEL

BASKET STRAINER

FLANGED TYPE, 4" TO 24" CARBON STEEL & STAINLESS STEEL

Service
Max temperature
Max pressure
Body MOC
Cast steel
Cast stainless steel

Compatible water-based fluids
300 °C
100 bar
WCB 216
CF8 (304) / CF3 (SS304L) / CF8M (316) / CF3M (316L)

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FLOW INDICATORS

SIGHT GLASS INDICATOR

Suitable for liquids and gases
Glasses can be individually removed & replaced

- Cylinder sight flow indicators
- Simple viewing window (No Indicator)
- Flapper indicator
- Rotor indicator
- Drip tube indicator

- Max. temperature : 250 °C
- Max. pressure : 100 Bar
- Wetted parts : CS, SS304, SS316
- Lining : PTFE, Rubber, PFA
- Size : ½ to 8 inch
- Process connection : Flange Type, Threaded Type, Socket Weld Type
- Mounting orientation : Horizontal or Vertical
- Body style : Single window/Double window

FLOW INDICATOR

Simple and rugged construction

- Service : Compatible Liquids & Gases
- Max. temperature : 100 °C
- Max. pressure : 8 Bar
- Wetted parts : Body: Acrylic plastic; O-ring: Buna-N (fluoro elastomer available)
  Metal parts: SS; Float: SS
- Process connection : 1/8” NPT to 1”NP
FLOW METERS

PADDLEWHEEL FLOWMETER

Large pipe size range, Long life

- **Service**: Compatible water-based fluids
- **Max. temperature**: 100 °C
- **Max. pressure**: 22 Bar
- **Wetted parts**: Brass or 316 SS; fitting O-ring: FKM standard
- **Output type**: 4 to 20 mA, Pulse
- **Process connection**: Standard: 1.5” NPTM, Optional: 2” NPTM

FLOW SWITCHES

THERMAL DISPERSION FLOW SWITCH

Non-Mechanical, Low Pressure Drop

- **Service**: Compatible water-based fluids
- **Max. temperature**: 85 °C
- **Max. pressure**: 34 Bar
- **Wetted parts**: SS316, Polysulfone and FKM
- **Switch type**: 1 NO, 1 NC
- **Process connection**: 1/2˝ NPTM

FLOTECT FLOW SWITCH

Field Adjustable, High Pressure Rating

- **Service**: Compatible liquids and gases
- **Max. temperature**: 205 °C
- **Max. pressure**: 138 Bar
- **Wetted parts**: Brass or SS316 (Options: PVC, Hastelloy, Nickel, Monel, Titanium)
- **Switch type**: SPDT, optional DPDT snap switch
- **Process connection**: 1/2” to 1.5˝ NPTM