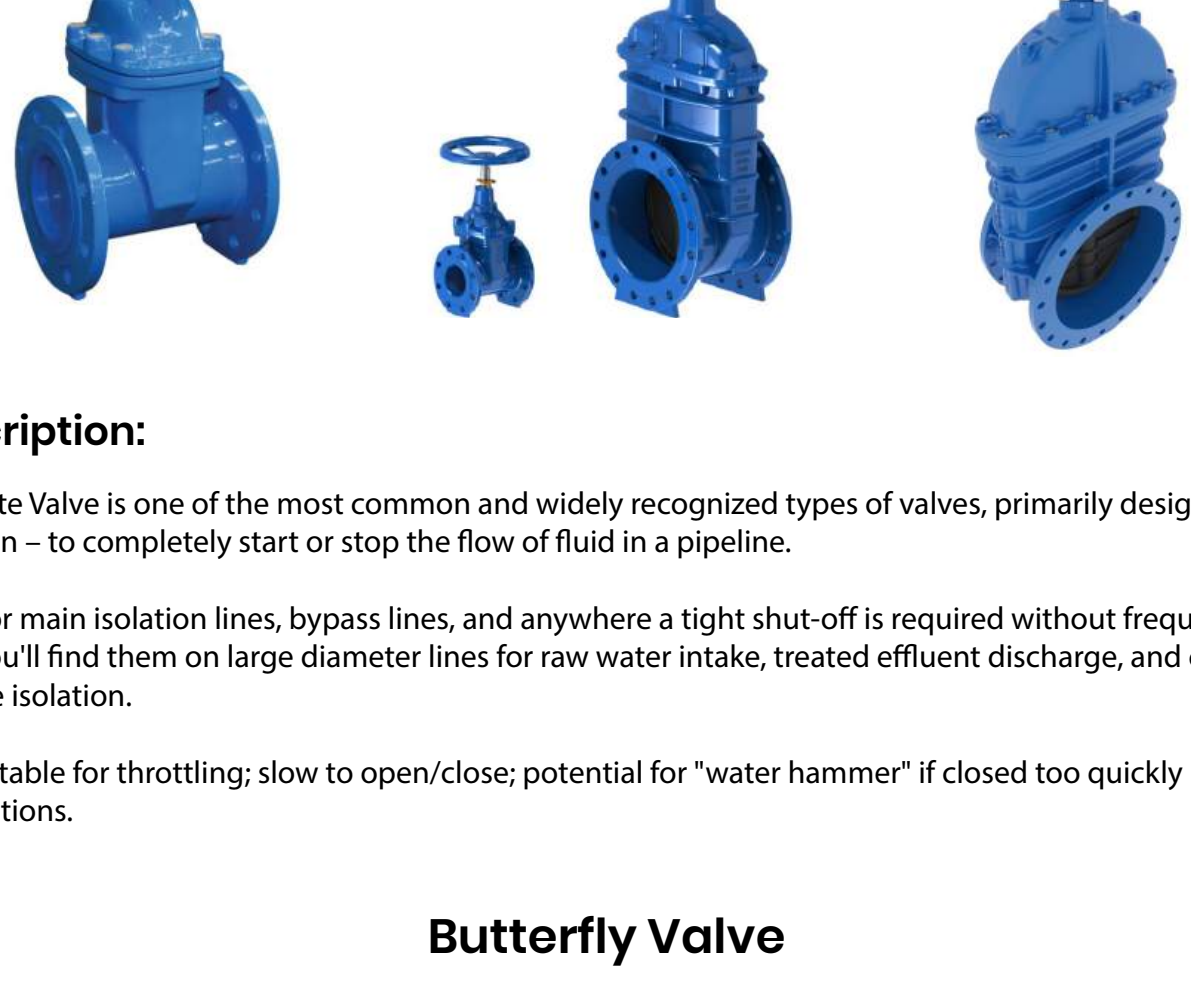


Gate Valve



Description:

The Gate Valve is one of the most common and widely recognized types of valves, primarily designed for isolation – to completely start or stop the flow of fluid in a pipeline.

Ideal for main isolation lines, bypass lines, and anywhere a tight shut-off is required without frequent operation. You'll find them on large diameter lines for raw water intake, treated effluent discharge, and chemical storage isolation.

Not suitable for throttling; slow to open/close; potential for "water hammer" if closed too quickly in certain applications.

Butterfly Valve



Description:

The Butterfly Valve is a quarter-turn valve known for its compact design, rapid operation, and versatility in both isolation and throttling applications. This is a quick-action valve with on-off isolation and modulated flow control.

It takes up less space than a gate valve of similar size and they are a great option for quick action.

The disc is always in the flow path, causing a slight pressure drop even when fully open; sealing can be less absolute than a gate valve in some designs.

Pressure Release Valve



Description:

also known as a safety valve, is a crucial safety device designed to automatically open and relieve excessive pressure from a system, protecting equipment and personnel from damage or injury due to over-pressurization.

A PRV is a spring-loaded valve pre-set to open at a specific pressure (the "set pressure"). When the pressure in the system exceeds this set point, the force exerted by the fluid overcomes the spring's resistance, causing the valve to open and discharge the excess fluid (liquid or gas) until the pressure drops back to a safe level. Once the pressure falls, the spring reseats the valve, closing it.

Non-return Valve (Check Valve)



A non-return valve, also known as a check valve, is a mechanical device that normally allows fluid (liquid or gas) to flow through it in only one direction. Prevents backflow of fluid in a pipeline. It opens with forward flow and closes automatically to prevent reverse flow when flow stops or reverses.

This valve is used in the chemical dosing lines, pump discharge lines, process bypass lines and many more to prevent backflow and protect the system from damage.

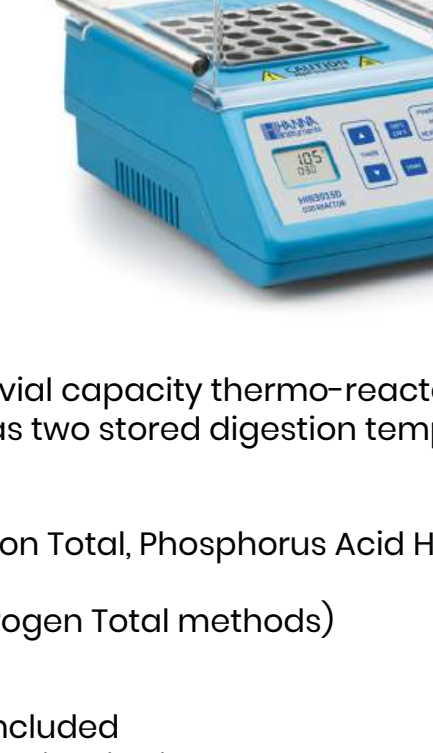
Electromagnetic Flow Control Valve



An electro-magnetic flow control valve typically refers to a combination of an electro-magnetic flowmeter (magmeter) and a control valve, working together to precisely measure and regulate the flow of conductive liquids. While the term "flow control valve" usually implies an actuated valve, the "electro-magnetic" aspect refers specifically to the flow measurement technology.

It measures the volumetric flow rate of electrically conductive liquids. It operates on Faraday's Law of Electromagnetic Induction. It does not have any moving parts for this reason. It is used in Chemical dosing control, influent/effluent flow monitoring and control, backwash control and in the recycle or bypass flow control.

Electro-magnetic Flow Meter

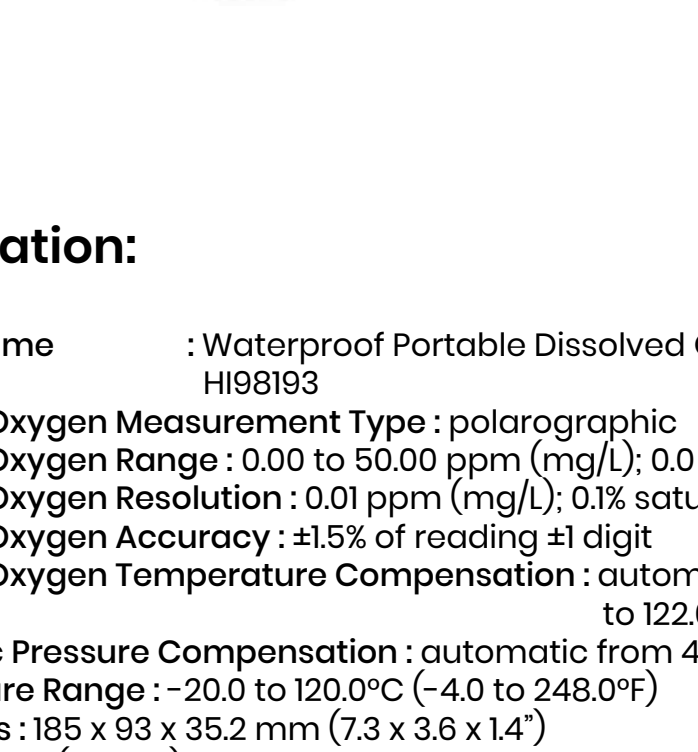


Brand : E&H
Type : Fixed/Remote
Flow Rate : 1 to 600m³/h

Feature

- *First response and high Stability
- *High Accuracy Flowrate
- *Visible backlit LCD for easy operation
- *Communication: E. G. RS485 RS232C, HART, Profibus
- *Application: Water, Waste Water, etc.

Ultrasonic Flow Meter

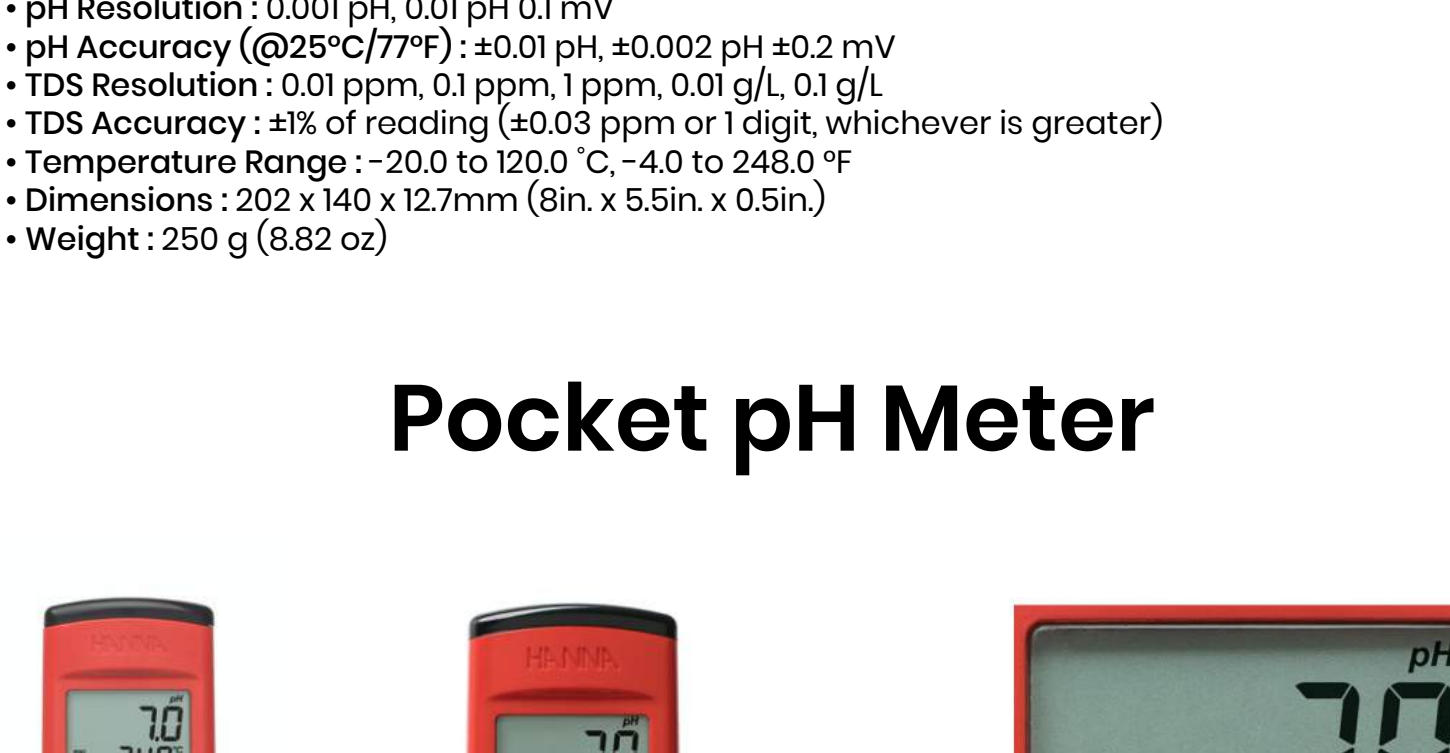


Brand : E&H
Type : Ultrasonic
Flow Rate : 1 to 800m³/h

Feature

- *First response and high Stability
- *High Accuracy Flowrate
- *Visible backlit LCD for easy operation
- *Application: Water, Waste Water, etc.

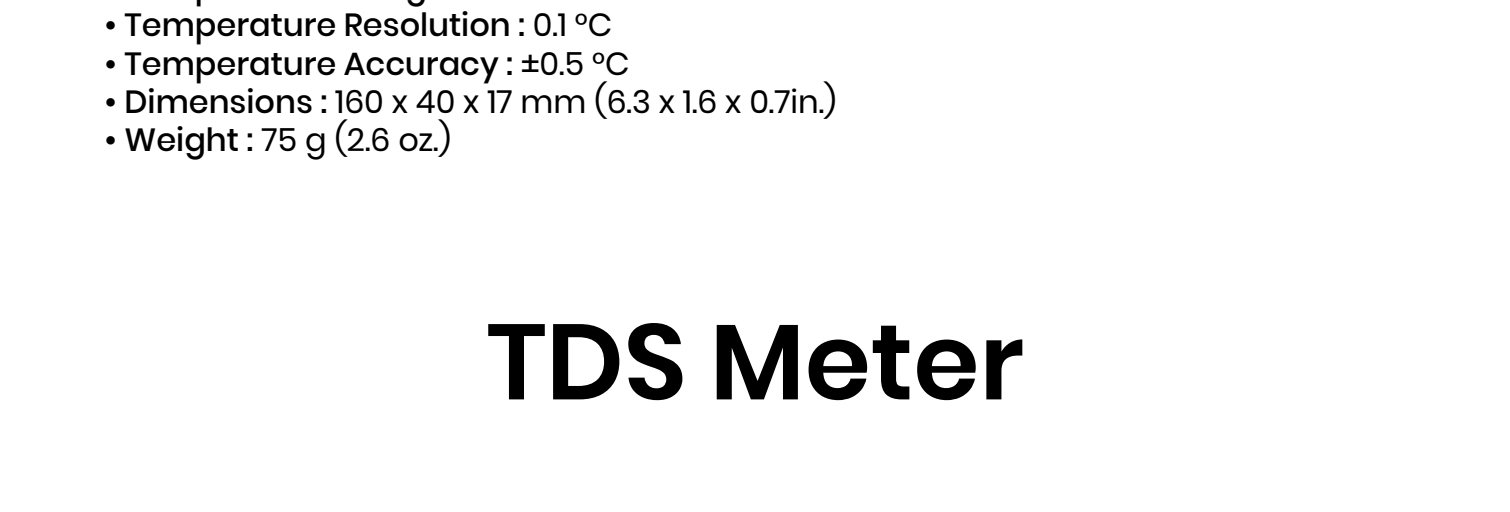
BOD Meter



Specification:

- The bright 4-digit LED display ensures long battery life in respect of other sensors in the market.
- Intuitive 2 button interface to facilitate the analysis set up.
- Pressure range : 500/200 mbar (hPa).
- Results available in BOD (mg/l) and Pressure (mbar).
- BOD Scales: 90, 250, 600, 1000, 4000, higher values after dilution.
- Automatic pressure results conversion in BOD.

COD Reactor

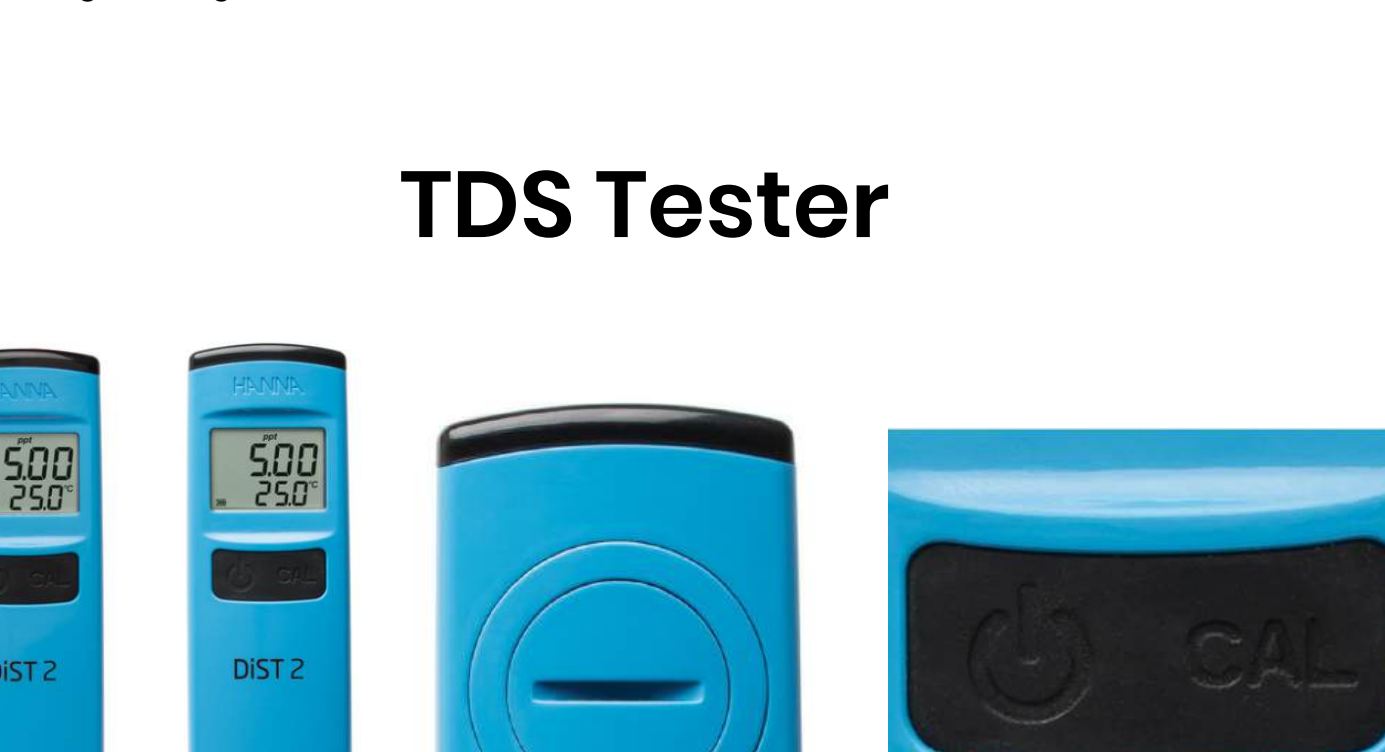


The HI839150 is a robust 25 vial capacity thermo-reactor for COD determination of industrial wastewater. The reactor has two stored digestion temperature programs that support analysis methods at:

- 150°C (all COD methods, Iron Total, Phosphorus Acid Hydrolyzable, Phosphorus Total methods)
- 105°C (Chromium and Nitrogen Total Methods)

- Laboratory safety shield included
 - The included safety shield is highly recommended to use during vial digestion procedure to maintain a safe working environment
 - Reactor block temperature continuously evaluated and displayed
- Built-in countdown timer
 - A timer of up to 180 minutes is included for applications that require timed digestions. The end of the digestion time is signaled by 5 short acoustic beeps and "DONE" message is displayed. The heating is turned off and the block begins to cool off.
- Status indicator lights
 - POWER (on)
 - HOT (surface)
 - HEATING (in progress)
- Overheating prevention
- Reference temperature probe well
 - A small temperature well can accommodate a temperature probe, useful for verifying the heating block.
- Warnings and error messages
 - The instrument displays warning messages when erroneous conditions appear and when values are outside the expected range such as high or low temperature, hot surface, or heating system malfunction.

DO Meter



Specification:

- Product Name : Waterproof Portable Dissolved Oxygen and BOD Meter HI98193
- Dissolved Oxygen Measurement Type: polarographic
- Dissolved Oxygen Range: 0.00 to 50.00 ppm (mg/L); 0.0 to 600.0% saturation
- Dissolved Oxygen Resolution: 0.01 ppm (mg/L); 0.1% saturation
- Dissolved Oxygen Accuracy: $\pm 1.5\%$ of reading ± 1 digit
- Dissolved Oxygen Temperature Compensation: automatic from 0.0 to 50.0 °C (32.0 to 122.0 °F)
- Barometric Pressure Compensation: automatic from 450 to 850 mmHg
- Temperature Range: -20.0 to 120.0 °C (-4.0 to 248.0 °F)
- Dimensions: 185 x 93 x 127 mm (8in. x 5.5in. x 0.5in.)
- Weight: 400 g (14.2 oz.)

Multiparameter pH Meter



Country of Origin : Taiwan
Brand Name : Trundean
Size : 3/4" or 1"

Pocket pH Meter

Specification:

- pH Accuracy (@25°C/77°F) : ± 0.2 pH
- Temperature Range : 0.0 to 50.0 °C
- Temperature Resolution : 0.1 °C
- Temperature Accuracy : ± 0.5 °C
- Dimensions : 160 x 40 x 17 mm (6.3 x 1.6 x 0.7in.)
- Weight : 75 g (2.6 oz.)

TDS Meter

Specification:

- Name : Portable High Range EC/TDS Meter – HI99301
- EC Range : 0.00 to 20.00 mS/cm
- EC Resolution : 0.01 mS/cm
- EC Accuracy : $\pm 2\%$ FS
- TDS Range : 0.00 to 10.00 ppt (g/L)
- TDS Resolution : 0.01 ppt (g/L)
- TDS Accuracy : $\pm 2\%$ F.S.
- Temperature Range : 5.0 to 105.0 °C / 23.0 to 221.0 °F
- Temperature Resolution : 0.1°C / 0.1°F
- Temperature Accuracy : $\pm 0.5^\circ\text{C} / \pm 1^\circ\text{F}$
- Dimensions : 154 x 63 x 30 mm (6.1 x 2.5 x 1.2")
- Weight : 196 g (6.91 oz.)

TDS Tester

Specification:

- TDS Range: 0.00 to 10.00 g/L (ppt)
- TDS resolution: 0.01 g/L (ppt)
- EC to TDS Conversion Factor: 0.5
- Temperature Range: 0.0 to 50.0°C/32.0 to 122.0°F
- Temperature Resolution: 0.1°C / 0.1°F
- Temperature Accuracy: $\pm 0.5^\circ\text{C} / \pm 1.0^\circ\text{F}$
- Dimensions: 160 x 40 x 17 mm (6.3 x 1.6 x 0.7in.)
- Weight: 75 g (2.6 oz.)

Saddle

