

BAYDEE TANK CONTENTS GAUGE

The Bayham Baydee Gauge / Switch provides a single solution for applications that require tank contents measurement, level alarms and pump or solenoid valve control.

The standard version may be fitted with up to 4 micro switches that are actuated by cams fitted to the same shaft that drives the dial pointer. The switches can be supplied with normally open, closed or changeover contacts. The local dial may be calibrated in Fractions, Percentage, Litres, m³ or any other standard engineering units. It may also be scaled in °C for transformer oil tanks or in cm or metres depth. Dial sizes available are 100, 150 and 250mm diameter.

Vertical displacement of the float arm is transferred via gears to a rotating drive magnet located in a pocket behind the gauge mounting flange. A second magnet located inside the gauge body follows the drive magnet, rotating the cam shaft and pointer. This mechanism prevents fluid leakage into the gauge and allows adjustment or maintenance to be carried out without the need to drain the tank.

End of travel float arm stops are fitted to ensure that the float does not come into contact with the inside of the tank.



Two standard mounting flange sizes are available, the B15 and B23. The B15 flange is generally supplied for tank sizes up to 2.7 m high, where the float arm pivots at the tank's vertical centre line. For deeper tanks the B23 flange is used which allows larger, more buoyant floats to be fitted. Other flange types are available on request.

Applications

- Oil / Water Storage Tanks
- Diesel Oil Service Tank Level Control
- Coolant Header Tanks
- Chemical Storage Tanks
- Transformer Oil Level Indication / Alarms

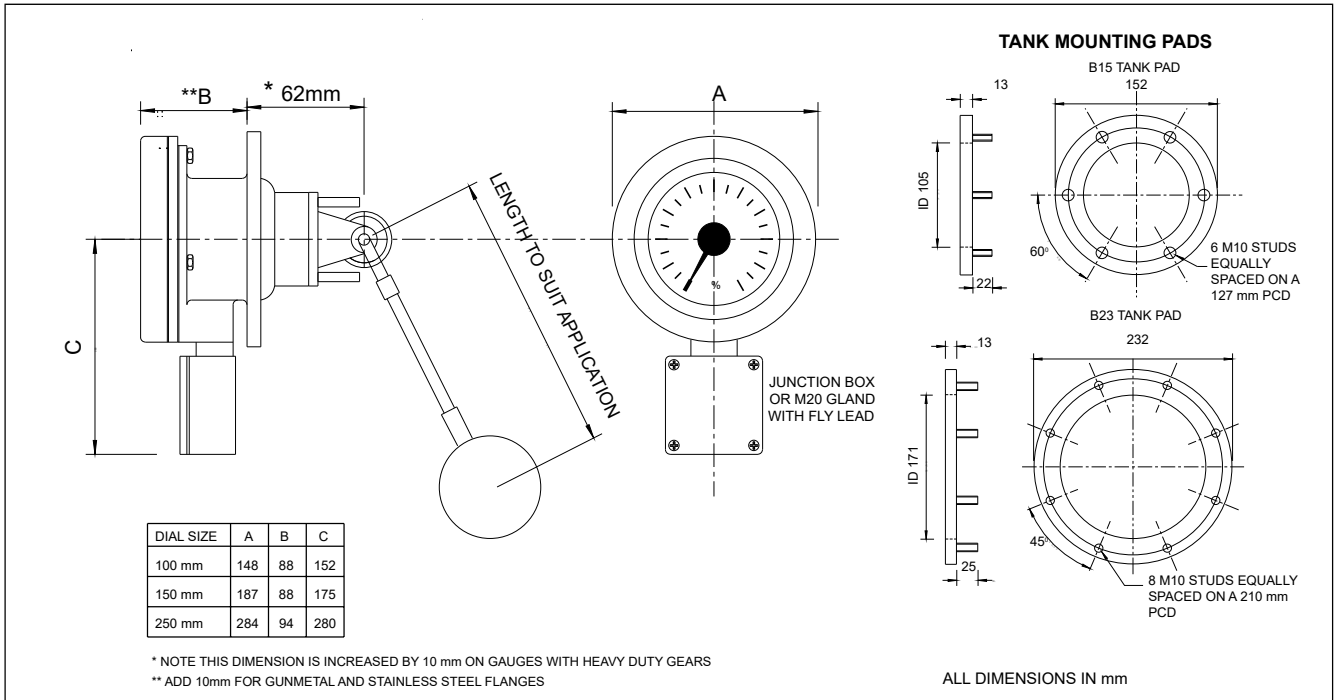
Features

- Robust Construction & Leak Proof
- Continuous Contents Indication with Integral Level Alarm and Pump Control Switches
- Standard and Custom versions available
- Suitable for tanks up to 4.5m high

Technical Specifications

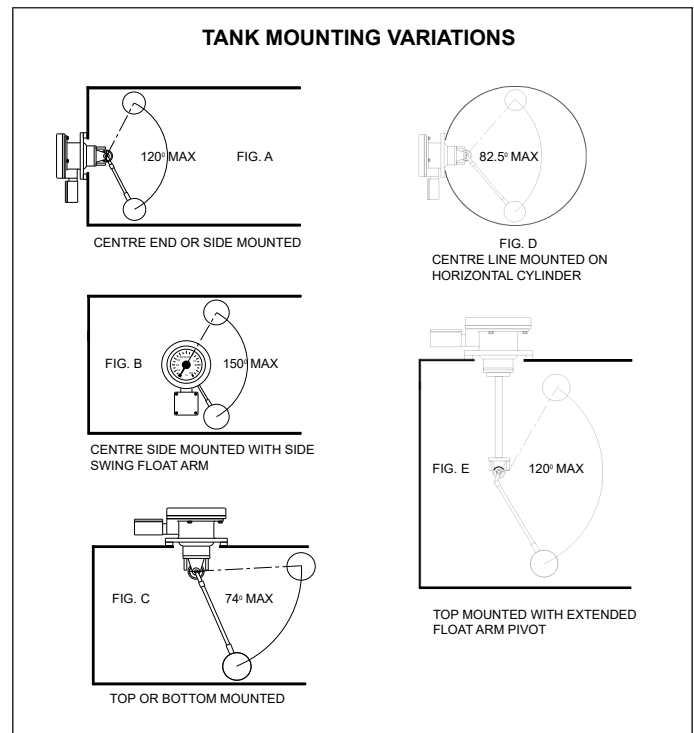
Gauge body:	Polyester Coated Aluminium
Flange:	Aluminium, Gunmetal or Stainless Steel
Gears:	16/40 or 11/40 ratio in Brass or Stainless Steel
Floats:	Plastic, Copper, Doped Cork or Stainless Steel
Maximum float arm angle:	120 degrees
Maximum pointer movement:	300 degrees
Pressure rating:	Dependant on flange type
Temperature rating:	80 °C standard, high temperature versions are available
Micro switch contact rating:	250 VAC 4 A Resistive
Weather protection:	In accordance with IP56, IP67 version available without dial

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Information required when specifying:

- Gauge Type:
Baydee A1= 1 Micro Switch
Baydee A2= 2 Micro Switches
Baydee A3= 3 Micro Switches
Baydee A4= 4 Micro Switches
- Dial Size
- Tank Dimensions
- Mounting Position of Gauge
- Fluid Details
- Operating Conditions
- Dial Calibration Units i.e. fractions, %, litres, etc.
- Application - Static or Mobile
- Tank Slope Angle (if applicable)
- Baffle/Stay details (if applicable)
- Details of Switching Levels



Tank mounting pads suitable for welding on to steel tanks are available from stock pre-fitted with studs, nuts and washers. If required, please contact us for tank mounting pad instructions.

Bayham manufacture and supply gauges for a wide range of markets and applications. Please feel free to contact us for further information or guidance on specifying the correct gauge to suit your exact requirements.