

# BAYHAM

## BAYDEE TANK CONTENTS GAUGE/SWITCH

### Features:

- Robust Construction
- Continuous Contents Indication with Integral Level Alarm/Control Switches
- Choice of Dial Sizes
- Suitable for tanks up to 4.5 m high

### Applications:

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

### Function

The 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 of the Baydee 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, m<sup>3</sup> 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 250 mm diameter.

### Operation

As the liquid level in the tank changes the float arm moves vertically through an arc. This displacement 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.

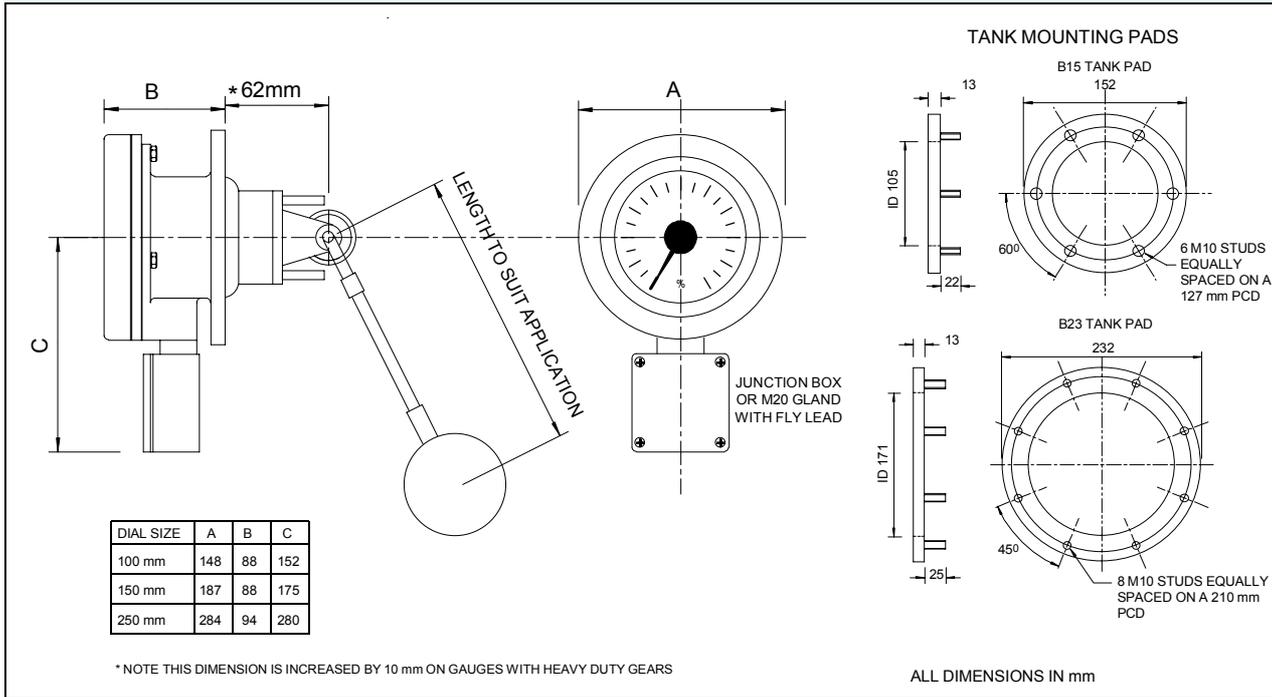
Two standard mounting flange sizes are available, the B15 and B23. The B15 flange is generally supplied for tank sizes up to 2.7 m high, where the float arm pivots at the tank's vertical centre line. For deeper tanks the B23 flange is used which allows larger, more buoyant floats to be fitted. Other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



### 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, higher ratings on request
Weather protection:	In accordance with IP56, IP67 version available without dial

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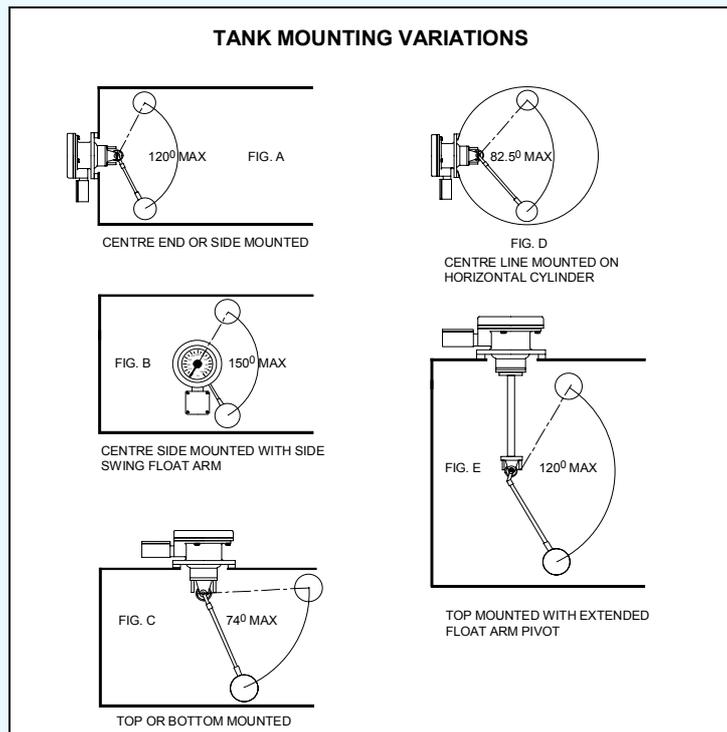


## Information required:

- 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
- Baffle/Stay Details-if fitted
- Mounting Position of Gauge
- Fluid Details
- Operating Conditions
- Dial Calibration Units i.e. fractions, %, litres, etc.
- Whether Static or Mobile application
- Tank Slope Angle, if any
- Details of Switching Levels

Please contact our sales department for tank pad mounting instructions. Tank pads are available from stock and may be shipped within 24 hours if required.

We have many years of experience manufacturing tank gauges for a wide variety of applications. Please contact us for further information or guidance on specifying the correct gauge to suit your requirements.



# R&G

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