

Badotherm model BDT30-18 series gauges are available as 100 mm dia. These gauges are suitable where ambient corrosion is a major concern. The stainless steel case and ring offer an excellent resistant to chemical, weather and corrosion attack. The BDT30-18 has many optional contact features. Including an electrical connection box PG13.5 at the side. All Badotherm stainless steel tubes are made from seamless drawn tube.

contact all stainless steel fillable pressure gauge

mounting variations

- type A bottom connection, direct mounting
- type B panel mounting, clamp fixing, back connection
- type C surface mounting, bottom connection
- type D back connection, direct mounting
- type E panel mounting, back connection
- type F panel mounting, bottom connection



BDT30-18

technical specification model BDT30-18

| | | | |
|-----------------|--------------|-----------------|------------------|
| diameter | connection | window | ranges |
| 100 mm | 1/2" BSP/NPT | plastic | from -1/1600 bar |
| casing | tube | movement | dial |
| AISI304 bayonet | AISI316 | stainless steel | aluminium |
| bezel | socket | pointer | accuracy |
| AISI304 bayonet | AISI316 | fixed | 1.6% FSD |

Note: snap-action contacts by magnets.
available with single or double acting contacts.
contacts built under the dial.

options and special executions at extra cost

| | |
|---------------------|---|
| casing | AISI316 |
| bezel | AISI316 |
| dials | customized – i.e., non standard ranges or logos |
| certificates | calibration, conformity, material |
| manuals | installation and maintenance |
| connection | METRIC, BSPT, acc JIS in various sizes |
| restrictor | AISI316 |
| connection position | top or side |
| filling | isolating oil |
| accuracy | 1% for inductive contacts |
| low action contacts | S1/S2/S3/S11/S12/S22 |
| magnet contacts | M1/M2/3/M11/M12/M22 |
| inductive contacts | I1/I2/I11/I12/I21/I22 |
| electronic contacts | E1/E2/E11/E12/E21/E22 |

BDT30-18 - technical data sheet

pressure details

working pressure

| | |
|-------------|-------------------------|
| Steady | full scale value |
| Fluctuating | 0,9 x full scale value |
| Short time | see over-pressure table |

pressure element

| | <100 bar | ≥ 100 bar |
|----------|----------|-----------|
| BDT30-18 | AISI316 | AISI316 |

over-pressure

| max. scale in bar | | | over-pressure at 20 °C |
|-------------------|----|------|-------------------------|
| -1 | to | 100 | 1,25 x full scale value |
| 101 | to | 600 | 1,15 x full scale value |
| 601 | to | 1600 | 1,10 x full scale value |

Note : only withstand for a short period of time

temperature details

temperature limitations

| | ambient | process |
|------------------|-----------------|---------|
| without filling | -40 °C to 60 °C | 100 °C |
| silicone filling | -40 °C to 60 °C | 90 °C |

The variation of indication caused by the effects of temperature shall not exceed :

$\pm 0,04 \times (\text{ambient temperature-reference temperature})\%$
of the span

design information

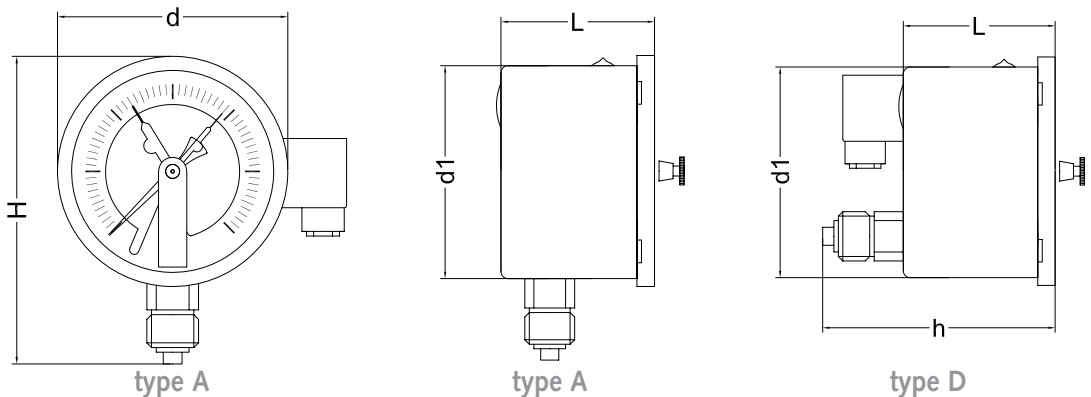
ingress protection

IP 65 per EN 60 529 / IEC 529

design

EN 837-1

drawings



dimensions

| ns | d | d1 | L | H | h | weight |
|-----|-----|-----|----|-----|-----|--------|
| 100 | 110 | 100 | 82 | 140 | 122 | 0,8 kg |

Note : dimensions are in mm