



## BST750 Series All Stainless Steel Test Gauge - ECD

### Features

- Accuracy Class 0.25 or Class 0.5
- External Calibration Device (ECD)
- Parallax mirror dial for easier reading
- All stainless steel construction
- Bottom, lower back, panel or wall mount
- Over pressure up to 30% of Full Scale
- Restrictor screw standard
- Long life and stability sensing element
- Design scale ranges up to 1000 bar



### Application

BST750 Series is an extended version of BST75X Series test gauge. It is use like a pressure generator or dead weight tester for verifying, testing and calibrating industries type pressure gauge, transmitter, switch, etc. With additional External Calibration Device (ECD) locate on the below of the dial further provide fine adjustment on zeroing or offset. There is also fully stainless steel construction version which is used in laboratories or outdoor field.

### Technical Specification



- Nominal Size  
150 mm
- Accuracy Class  
Class 0.25 or Class 0.25
- Ingress Protection  
IP 43
- Connection Size  
G½ or ½ NPT
- Scale Range  
Pressure 0.. 1000 bar  
Vacuum -1 bar.. 0  
Compound -1.. 24 bar
- Tube Element Shape  
P ≤ 100 bar in C tube  
P > 100 bar in helicoil
- Filling  
Dry execution
- Operating Temperature  
Ambient temperature -30°.. +70°C  
Medium temperature 80°C Max.
- Temperature Error  
Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) be ±0.4% / 10°C (50°F) rising or falling
- Over Pressure Limit  
130% of F.S. P ≤ 100 bar  
115% of F.S. P > 100 bar
- Dial Graduation  
Black graduation on white for single range  
Black and red graduation on white for dual ranges

### Design Material



- Casing, and Bezel Ring  
Stainless steel 304
- Sensing Element  
Stainless steel 316
- Connection  
Stainless steel 316L
- Window  
Plain instrument glass with ECD device
- Window gasket  
Industrial rubber seal
- Pointer  
Black painted aluminum, knife edge
- Dial Plate  
Aluminum alloy

### Ordering Code



**B** BROTHOTERM  
GERMANY TECHNOLOGY

BST<sup>①</sup> <Pressure range><sup>②</sup> Mounting<sup>③</sup> - Connection<sup>④</sup> - Filling<sup>⑤</sup> \*Option<sup>⑥</sup>

| ①     | Dial size - Accuracy Class |
|-------|----------------------------|
| ST751 | 150 mm - Class 0.25        |
| ST752 | 150 mm - Class 0.5         |

| ③ | Mounting                          |
|---|-----------------------------------|
| D | Bottom / Direct connection        |
| B | Lower back connection             |
| W | Bottom conn., back flange / Wall  |
| S | Back conn., back flange / Surface |
| P | Back conn., front flange / Panel  |

| ④  | Connection size |
|----|-----------------|
| G4 | G¼"             |
| N4 | ¼" NPT          |
| G2 | G½"             |
| N2 | ½" NPT          |

| ⑤ | Filling                        |
|---|--------------------------------|
| D | Dry, not available for filling |

| ⑥  | Option                  |
|----|-------------------------|
| CD | Custom dial layout      |
| SU | Special unit range      |
| BB | Blow out back case      |
| SG | Laminated safety glass  |
| O2 | Oxygen service cleaning |
| OC | Other connection thread |

| ② Dual ranges |              | Single ranges |              |             |
|---------------|--------------|---------------|--------------|-------------|
| Bar           | & Psi        | Bar or kg/cm2 | Psi          | kPa         |
| -1.. 0        | -30"Hg.. 0   | -1.. 0        | -30"Hg.. 0   | -100.. 0    |
| -1.. 0.6      | -30"Hg.. 8   | -1.. 0.6      | -30"Hg.. 10  | -100.. 60   |
| -1.. 1.5      | -30"Hg.. 20  | -1.. 1.5      | -30"Hg.. 15  | -100.. 150  |
| -1.. 3        | -30"Hg.. 40  | -1.. 3        | -30"Hg.. 30  | -100.. 300  |
| -1.. 5        | -30"Hg.. 70  | -1.. 5        | -30"Hg.. 60  | -100.. 500  |
| -1.. 9        | -30"Hg.. 130 | -1.. 9        | -30"Hg.. 150 | -100.. 900  |
| -1.. 15       | -30"Hg.. 200 | -1.. 15       | -30"Hg.. 200 | -100.. 1500 |
| -1.. 24       | -30"Hg.. 350 | -1.. 24       | -30"Hg.. 300 | -100.. 2400 |
| 0.. 1         | 0.. 15       | 0.. 1         | 0.. 15       | 0.. 100     |
| 0.. 1.6       | 0.. 23       | 0.. 1.6       | 0.. 20       | 0.. 160     |
| 0.. 2.5       | 0.. 35       | 0.. 2.5       | 0.. 30       | 0.. 250     |
| 0.. 4         | 0.. 60       | 0.. 4         | 0.. 60       | 0.. 400     |
| 0.. 6         | 0.. 85       | 0.. 6         |              | 0.. 600     |
| 0.. 7         | 0.. 100      | 0.. 7         | 0.. 100      | 0.. 700     |
| 0.. 10        | 0.. 150      | 0.. 10        | 0.. 150      | 0.. 1000    |
| 0.. 16        | 0.. 230      | 0.. 16        | 0.. 200      | 0.. 1600    |
| 0.. 25        | 0.. 350      | 0.. 25        | 0.. 300      | 0.. 2500    |
| 0.. 40        | 0.. 600      | 0.. 40        | 0.. 600      | 0.. 4000    |
| 0.. 60        | 0.. 850      | 0.. 60        |              | 0.. 6000    |
| 0.. 70        | 0.. 1000     | 0.. 70        | 0.. 1000     | 0.. 7000    |
| 0.. 100       | 0.. 1500     | 0.. 100       | 0.. 1500     | 0.. 10000   |
| 0.. 160       | 0.. 2300     | 0.. 160       | 0.. 2000     | 0.. 16000   |
| 0.. 250       | 0.. 3500     | 0.. 250       | 0.. 3000     | 0.. 25000   |
| 0.. 400       | 0.. 6000     | 0.. 400       | 0.. 6000     | 0.. 40000   |
| 0.. 600       | 0.. 8500     | 0.. 600       |              | 0.. 60000   |
| 0.. 700       | 0.. 10000    | 0.. 700       | 0.. 10000    | 0.. 70000   |
| 0.. 1000      | 0.. 15000    | 0.. 1000      | 0.. 15000    | 0.. 100000  |

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