



BTG750 Series

Black Enamel Case Test Gauge - ECD

Features

- Accuracy Class 0.25 or Class 0.5
- External Calibration Device (ECD)
- Parallax mirror dial for easier reading
- Knife edge pointer design
- 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

BTG750 Series is a premium design test gauge. It is used 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) located on the below of the dial further provides fine adjustment on zeroing or offset. Widely used in laboratories, power plants or application where measurement accuracy is a concern.

Technical Specification



- Nominal Size
150 mm
- Accuracy Class
Class 0.25 or Class 0.25
- Ingress Protection
IP 43
- Connection Size
G $\frac{1}{2}$ or $\frac{1}{2}$ NPT
- Scale Range
Pressure 0.. 1000 bar
Vacuum -1 bar.. 0
Compound -1.. 24 bar
- Tube Element Shape
P \leq 100 bar in C tube
P > 100 bar in helicoil
- Filling
Dry execution
- Operating Temperature
Ambient temperature -30 $^{\circ}$ C .. +70 $^{\circ}$ C
Medium temperature 80 $^{\circ}$ C Max.
- Temperature Error
Additional error when pressure element temperature deviates from reference temperature +20 $^{\circ}$ C (+68 $^{\circ}$ F) be \pm 0.4% / 10 $^{\circ}$ C (50 $^{\circ}$ F) rising or falling
- Over Pressure Limit
130% of F.S. P \leq 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
Black enamel steel
- Sensing Element
Cupreous alloy
- Connection
Brass
- Window
Plain instrument glass with ECD device
- Window gasket
Industrial rubber seal
- Pointer
Black painted aluminium, knife edge
- Dial Plate
Aluminium alloy

Ordering Code



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GERMANY TECHNOLOGY

BTG ^① <Pressure range> ^② Mounting ^③ - Connection ^④ - Filling ^⑤ *Option ^⑥

①	Dial Size - Accuracy Class
BTG751	150 mm - Class 0.25
BTG752	150 mm - Class 0.25

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	G $\frac{1}{4}$ "
N4	$\frac{1}{4}$ " NPT
G2	G $\frac{1}{2}$ "
N2	$\frac{1}{2}$ " 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 range		
Bar	&	Psi	Bar or kg/cm ²	Psi	kPa
-1..0	-30"	Hg.. 0	-1..0	-30"	Hg.. 0
-1..0.6	-30"	Hg.. 8	-1..0.6	-30"	Hg.. 10
-1..1.5	-30"	Hg.. 20	-1..1.5	-30"	Hg.. 15
-1..3	-30"	Hg.. 40	-1..3	-30"	Hg.. 30
-1..5	-30"	Hg.. 70	-1..5	-30"	Hg.. 60
-1..9	-30"	Hg.. 130	-1..9	-30"	Hg.. 150
-1..15	-30"	Hg.. 200	-1..15	-30"	Hg.. 200
-1..24	-30"	Hg.. 350	-1..24	-30"	Hg.. 300
0.. 0.1	0.. 0.15		0.. 0.1	0.. 0.15	0.. 100
0.. 0.16	0.. 0.23		0.. 0.16	0.. 0.20	0.. 160
0.. 0.25	0.. 0.35		0.. 0.25	0.. 0.30	0.. 250
0.. 0.4	0.. 0.60		0.. 0.4	0.. 0.60	0.. 400
0.. 0.6	0.. 0.85		0.. 0.6	0.. 0.85	0.. 600
0.. 0.7	0.. 1.00		0.. 0.7	0.. 1.00	0.. 700
0.. 0.10	0.. 0.150		0.. 0.10	0.. 0.150	0.. 1000
0.. 0.16	0.. 0.230		0.. 0.16	0.. 0.200	0.. 1600
0.. 0.25	0.. 0.350		0.. 0.25	0.. 0.300	0.. 2500
0.. 0.40	0.. 0.600		0.. 0.40	0.. 0.600	0.. 4000
0.. 0.60	0.. 0.850		0.. 0.60	0.. 0.850	0.. 6000
0.. 0.70	0.. 1.000		0.. 0.70	0.. 1.000	0.. 7000
0.. 0.100	0.. 0.1500		0.. 0.100	0.. 0.1500	0.. 10000
0.. 0.160	0.. 0.2300		0.. 0.160	0.. 0.2000	0.. 16000
0.. 0.250	0.. 0.3500		0.. 0.250	0.. 0.3000	0.. 25000
0.. 0.400	0.. 0.6000		0.. 0.400	0.. 0.6000	0.. 40000
0.. 0.600	0.. 0.8500		0.. 0.600	0.. 0.8500	0.. 60000
0.. 0.700	0.. 1.0000		0.. 0.700	0.. 1.0000	0.. 70000
0.. 0.1000	0.. 0.15000		0.. 0.1000	0.. 0.15000	0.. 100000

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