

## BSV Series

## Solid Forged Aluminum Test Gauge - ECD



### Features

- Accuracy Class 0.1, 0.25 or Class 0.5
- External Calibration Device (ECD)
- Memorized Maximum range Device (MMD)
- Parallax mirror dial for easier reading
- Design dial size 8" and 10"
- Bottom, back, panel or wall mounting
- Over pressure up to 30% of Full Scale
- Knife edge pointer design
- Design scale ranges up to 2500 bar



### Application

BSV Series is an Solid Forged aluminum case test gauge designed for heavy duty application. The BSV Series mostly used to for verifying, testing and calibrating industrial type pressure gauge, transmitter or other pressure instruments. With additional External Calibration Device (ECD) locate on the case to provide fine adjustment on zeroing or offset. Also available with Maximum memory pointer.

### Technical Specification

- Nominal Size  
200 and 250 mm
- Accuracy Class  
Class 0.1, 0.25 or Class 0.5
- Ingress Protection  
IP 54
- Connection Size  
G $\frac{1}{2}$ , G $\frac{3}{4}$  or  $\frac{1}{2}$  NPT
- Scale Range  
Pressure 0.. 2500 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.. +70 °C  
Medium temperature 80°C Max.
- Temperature Error  
Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) be  $\pm$ 0.4% / 10 °C (50°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  
Parallax mirror dial design for easier reading



### Design Material

- Casing and Bezel Ring  
Cast aluminum or \*SS316
- Wetted Parts  
Beryllium cooper allor or \*SS316
- Window  
Safety laminated glass with  
External Calibration Device (ECD)
- Window gasket  
EPDM (Ethylene Propylene Rubber)
- Pointer  
Black painted aluminium, knife edge
- Dial Plate  
Aluminium alloy



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### Ordering Code



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

①	Dial size - Accuracy Class
BSV800	200mm - Class 0.1, Cu-alloy version
BSV801	200mm - Class 0.25, Cu-alloy version
BSV802	200mm - Class 0.5, Cu-alloy version
BSV900	200mm - Class 0.1, Cu-alloy version
BSV901	200mm - Class 0.25, Cu-alloy version
BSV902	200mm - Class 0.5, Cu-alloy version
BSV810	200mm - Class 0.1, Stainless steel version
BSV811	200mm - Class 0.25, Stainless steel version
BSV812	200mm - Class 0.5, Stainless steel version
BSV910	200mm - Class 0.1, Stainless steel version
BSV911	200mm - Class 0.25, Stainless steel version
BSV912	200mm - Class 0.5, Stainless steel version

③	Mounting
B	Bottom / Direct connection
C	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

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		⑤ 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
0.. 1000	0.. 15000	0.. 1000	0.. 15000	0.. 100000
0.. 1000	0.. 15000	0.. 1000	0.. 15000	0.. 160000
0.. 1000	0.. 15000	0.. 1000	0.. 15000	0.. 250000