

# CAP001

## Capsule gauge



### Product features:

- Low pressure capsule gauge
- 1.6% or 2.5% accuracy
- Stainless steel or black steel case
- Glycerine filling available
- Choice of brass or stainless steel case suitable for harsh and corrosive environments and pressure media
- Wide range of associated accessories available
- **Brannan** quality and accuracy

### Applications:

- Heating, ventilation, air-conditioning
- Food and beverage industry
- Pulp and paper industry
- Machine and apparatus construction
- Pumps, compressors, hydraulic presses
- High humidity installations
- Pneumatics
- Hydraulics
- Outdoor installations

### Standard product specifications:

	CAP001 - Black steel case	CAP001 - Stainless steel case
<b>Standards &amp; categories</b>		
Design	BS EN 837 - 3	BS EN 837 - 3
<b>Gauge construction</b>		
Case	Black steel	Stainless steel 304
Connection orientation	Bottom & centre back	Bottom & centre back
Connection material	Brass	Stainless steel 316 (laser welded to case) or brass
Bezel	Black steel (100mm only)	Stainless steel 304 bayonet bezel
Pointer	Black aluminium	Black aluminium and micro adjustable pointer
Measuring principle	Capsule, brass	Capsule, stainless steel 316 or brass
Movement	Cu-Alloy	Stainless steel 304
Window	63mm: polycarbonate, snap fit / 100mm: glass	Tempered safety glass (laminated safety glass optional)
<b>Ranges &amp; parameters</b>		
Dial diameters	63mm (2.5") & 100mm (4")	63mm (2.5"), 100mm (4") & 150mm (6")
Ranges	0 to 25 mbar & 2.5 kPa through to 0 to 600 mbar & 60 kPa	0 to 25 mbar & 2.5 kPa through to 0 to 600 mbar & 60 kPa
Thread size	1/8", 1/4", 3/8" & 1/2" BSP/NPT/BSPT (others available on request)	1/8", 1/4", 3/8" & 1/2" BSP/NPT/BSPT (others available on request)
Accuracy class	63mm: 2.5%, 100mm: 1.6%	63mm: 2.5% / 100mm & 150mm: 1.6%
Filling	Dry	Dry or glycerine
Working pressure	Steady: 75% full scale range Fluctuating: 60% full scale range Short time: full scale range	Steady: 75% full scale range Fluctuating: 60% full scale range Short time: full scale range
Operating temperature	Ambient: -20 to +60°C Medium: -20 to +60°C	Ambient: silicone/dry: -40 to +60°C, glycerine: -20 to +60°C Medium: silicone/dry: -40 to +100°C, glycerine: -20 to +60°C
Storage temperature	-40 to +60°C	-40 to +60°C
Protection	IP 43 (BS EN 60529:1992)	Stainless steel connection: IP 67 / brass connection: IP65
Temperature effect	When temperature of the pressure element deviates from reference temperature of 20°C the maximum additional error is +/-0.4 per 10°C of the span rising and falling	When temperature of the pressure element deviates from reference temperature of 20°C the maximum additional error is +/-0.4 per 10°C of the span rising and falling
<b>Optional extras</b>		
Calibration	UKAS certification, certificate traceable to recognised national standard or statement of conformity	UKAS certification, certificate traceable to recognised national standard or statement of conformity

# Capsule gauge

**Product numbers:**

All CAP001 dials are ordered to specific customer specifications. Please use below matrix to create your unique ordering product reference, using the values in bold.

Make	Case Material	Dial diameter	Range	Units	Wetted parts	Connection size	Connection orientation	Extras
Brannan (BRN)	Black steel CAP001 (CAP1B)	63mm (2.5") <sub>1</sub> (63)	0 to 25 Mbar (0+25) 0 to 2.5 kPa (0+2.5)	mbar only (M)	SS 316* (SS316)	1/8" BSP <sub>1</sub> (1) 1/8" NPT <sub>1</sub> (2) 1/4" BSP (3) 1/4" NPT (4)	Bottom (BO)	Dry - no filling (D)
	Stainless steel CAP001 (CAP1S)	100mm (4") (100)	through to 0 to 600 Mbar (0+600)	kPa only (K)  Psi only (P)	Brass <sub>1</sub> (BRS)	3/8" BSP <sub>2</sub> (5) 3/8" NPT <sub>2</sub> (6) 1/2" BSP <sub>2</sub> (7) 1/2" NPT <sub>2</sub> (8) 1/8" BSPT <sub>1</sub> (9) 1/4" BSPT (10) 3/8" BSPT <sub>2</sub> (11) 1/2" BSPT <sub>2</sub> (12)	Centre back (CB)	Glycerine <sub>1</sub> (G)  Laminated safety glass window <sub>2</sub> (LG)  Front flange <sub>3</sub> (FF)  Back flange (BF)
		150mm (6") <sub>2</sub> (150)	0 to 60 kPa (0+60)	mbar outer (black) / psi inner (red) (MP)  Psi outer (red) / mbar inner (black) (PM)  kPa outer (black) / psi inner (red) (KP)  Psi outer (red) / kPa inner (black) (PK)	* Stainless steel case only.  1. IP65. No laser welding connection to case			1. Stainless steel case only. Only available above 100 mbar 2. Safety glass for stainless steel gauge only. 3. Flange for 100mm only.  When more than one extra is required, please separate each code with a hyphen when building your product reference
		1. Not available with S316 wetted parts. 2. SS case only.	NB. Equivalent vacuum ranges also available	NB. Other units available on request		1. 63mm only 2. 100mm & 150mm only Others available on request		

**Order example:**

Make	Case Material	Dial diameter	Range	Units	Wetted parts	Connection size	Connection orientation	Extras
BRN	CAP1S	100	0+25	M	SS316	7	BO	LG-FF

**Product reference:** BRNCAP40/100/0+25/M/SS316/7/BO/LG-FF

**Calibration product numbers:**

Calibration	No of points	Product number
UKAS	5pt	49/075/0
Traceable to National Standards	5pt	49/060/0

Other calibration types available on request

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