

## SQUARE PROFILE BOURDON TYPE PRESSURE GAUGE SQUARE PRESS 100



The pressure gauges series SQ100 in rectangular or squared enclosure have an accurate construction and standardized dimensions for mounting in parallel with electric instrumentation in centralized control rooms.



PED 97/23/CE  
ATEX 94/9/CE

ATEX approvals available under our **PCI TEMA** brand.

### TECHNICAL CHARACTERISTICS

**Diameters:** 144x144 - 144x72 – 96x96mm DIN43700 (Option 72x72)  
**Mounting :** Horizontal or vertical (only for model C and C/2)  
**Case and Front :** black painted Steel, with plastic front  
**Protection degree :** IP55 (IP65 only for mod. 96x96 filled) EN60529/IEC529  
**Transparent:** glass or acrylic 4mm, gasket in neoprene  
**Movement:** st. st., reinforced  
**Dial:** aluminium with black numerals on white background  
**Pointer:** st., black painted, micrometric adjustable  
**Gasket to the pivot :** Neoprene  
**Sensing element:** Bourdon tube type, with "C" form for pressure  $\leq 60$ bar, helical wound for pressure  $\geq 60$ bar  
**Element material:** AISI 316  
**Connection material :** AISI 316  
**Welding:** T.I.G.  
**Connection dimension:** 1/2"NPTM or BSP  
**Mounting:** panel with rear bracket and connection  
**Ranges:** see table at page 2  
**Overpressure:** +30% F.S. for range up to 60bar  
**Accuracy:** class 1, acc. to EN837 at 20°C  
**Ambient temperature limit:** -30/+60°C  
**Fluid temperature limit:** -30/+120°C element in AISI316, -30/+230°C element in MONEL  
**Temperature error:** 0,035%/°C in range 0/60°C  
**Construction acc. to ATEX directive 94/9/EC** , gr.II cat. 2GDc (on request)  
**Construction according to PED directive 97/23/EC** (on request)

### OPTIONS AND ACCESSORIES

- Glycerine filling for T.amb.-25/+60°C (only Type B dimensions 96x96)
- Other types of filling fluids (only for model B dimensions 96x96)
- Special scale
- Double scale for model C
- Maximum red pointer settable from front
- Electrical contacts (see datasheet)
- Mounting with diaphragm seal
- Pulsation dampener , External overpressure protector, Pig-tail syphon, Needle valves

### HOW TO ORDER

Please specify: model, mounting, case diameter, range, connection, options if any

**Example :** SQ100, A, 0/25bar, 1/2"NPTM

## RANGES

Pressure	Bar	0/1	0/1,6	0/2,5	0/4	0/6	0/10	0/16	0/25	0/40	0/60	0/100	0/160	0/250	0/400	0/600	0/1000
	psi	0/15	0/30	0/60	0/100	1/160	0/200	0/300	0/400	0/600	0/800	0/1000	0/1500	0/2000	0/6000	0/10000	0/15000

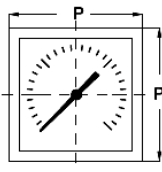
Available on request double scale : bar/psi – bar/kPa – psi/kg/cm<sup>2</sup> – kPa/psi

Receiver	psi	0/20	0/30	0/40	0/60	3/15
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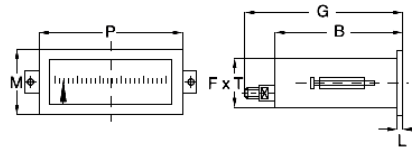
Available on request double scale : 3/15 , 0/10 linear – 3/15 , 0/10 √

Vacuum and compound	Bar	-1/0	-1/+0,6	-1/+1,5	-1/3	-1/5	-1/9	-1/15	-1/+24
	kPa	-100/0		-100/+150	-100/+300	-100/+500	-100/+900	-100/+1500	-100/+2400

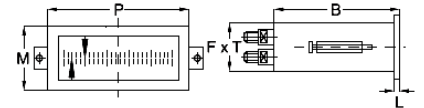
Available on request double scale : bar/Hg-psi – bar/kPa – Hg-psi/kg/cm<sup>2</sup> – kPa/Hg-psi



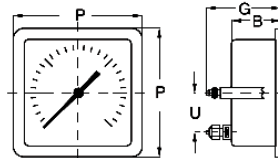
Type A: 96x96 e 144x144



Type C: 144x72 (single element)



Type C/2: 144x72 double element



Type B: 96x96 e (for filling)

Type	Dimensions	B	P	L	M	T	F	G	U
A	96 x 96	49	98	8	-	90	-	82	19
A	144 x 144	51	144	8	-	135	-	86	28
B	96 x 96	49	98	8	-	90	-	82	19
C	144 x 72	144	146	8	72	137	120	183	-
C/2	144 x 72	144	146	8	72	137	120	183	-