

MCX Capsule pressure gauges

Ø 100 - 150 mm

From - 600...0 to 0...600 mbar

Accuracy $\pm 1.6\%$ and $\pm 2\%$

Withstands overranges

Conforms to EN 837-3 standard

Model MCX capsule gauge is designed for low and negative pressure measurements.

He's particularly convenient for measuring pressure on corrosive air or gas circuits (under and aggressive service conditions).

The sensing element is a capsule composed of 2 diaphragms with concentric undulations, welded on each other.

A safety valve prevents permanent deformation of the capsule in case of sudden overpressure.



Specifications (20°C)

Ranges Ø 100, from -600...0 to -16...0 mbar and 0...10 to 0...600 mbar.
 Ø 150, from -600...0 to 0...600 mbar (see standard graduations overleaf)
 Momentary overrange protection (< 1 mn) 20 times the range by means of a safety valve (see N.B.1). (except for compound ranges)

Standard accuracy $\pm 1.6\%$ full scale (Ø 100).
 $\pm 2\%$ full scale (Ø 150).
 (for more information see overleaf).

Protection rating IP 65 according to EN 60529.

Sensing element

Capsule	Weld	Connection
S.Steel	Laser-welded	S.Steel

Connection 22 mm square in s.steel, soldered on the case.
 G 1/2 or 1/2 NPT thread.

Safety valve Viton.

Gauge working temperature - 40°... 70°C.

Case 304 stainless steel.

Bezelring Stainless steel.
 Bayonet lock type.

Window Glass, 3 mm thick.

Window-gasket Elastomer. Ensures tightness between window and case.

Movement Brass.

Dial Aluminium alloy, black graduations and figures on white back-ground.

Pointer Aluminium alloy, balanced, black painted.

Zero reset Adjustment by the front side of the instrument after removing the window and bezelring. Adjustment up to $\pm 10\%$ of F.S.

Blow out disc Elastomer. Positioned at the top of the pressure gauge. Ensures pressure balance with atmosphere. Blows out in case of sudden overpressure.

Options

Special graduations

Plexiglas window **Code 0752**

Index pointer on dial **Code 0051**

Adjustable index pointer with polycarbonate window **Code 0052**

Oxygen cleanliness **Code 0765**

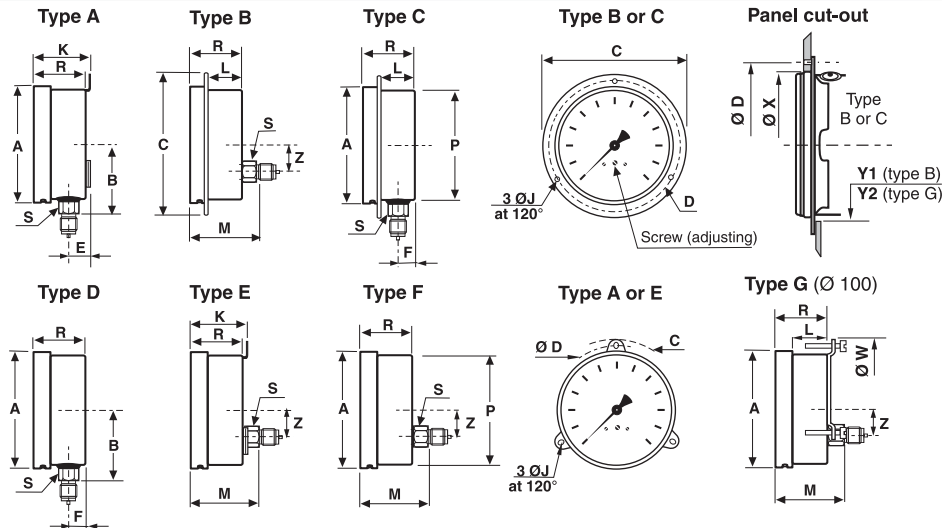
Inox movement **Code 0651**

**BOURDON
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made to measure



Dimensions - Types of mounting



Dia. mm	A	B	C	D	E	F	J	K	L	M	P	R	S	W	X	Y1	Y2	Z	Weight
100	106.2	68	130	118	25.5	23	5.5	56.5	39.3	71.5	98	54.5	22	118	107	101	99	31.5	0.60
150	150.2	90	180	168	25.5	23	5.5	56.5	39.3	71.5	142	54.5	22	-	151	145	-	31.5	0.86

Instructions for use

Resetting:

For small differences only, which do not exceed 10 % of full range:

- Dismantle the ring and the window.
- Adjust setting screw V in order to obtain the right value of the graduation.
- Replace the window and the ring.

N.B. 1 For an efficient use of the safety valve in case of unclean fluids (dust, particles), a filter should be installed on the gauge.

N.B. 2 Vibrations may be detrimental to pressure gauge operation. Installation on a vibration-free bracket and the use of a capillary tube are recommended.

Ordering Details - MCX

Mxxxx0Nxx	
Family	1' digit
Pressure gauges	M
Type	2'...3' digit
MCX	CX
Dial diameter	4' digit
Ø 100 mm	5
Ø 150 mm	7
Type of mounting* and connection position	5' digit
bottom connection, 3 back lug	A
back connection, front flange	B
bottom connection	D
back connection	F
back connection and ring (Ø 100 mm only)	G
* Option : stainless steel case 1.4404 (316L) change A with 1, B with 2, D with 4, F with 6 and G with 7	
Hydraulic connection	6' digit
G 1/4	2
G 1/2	3
1/4 NPT	5
1/2 NPT	6
Type of liquid filling	7' digit
Without filling	0
Unit of measurement	8' digit
mbar	N
Pressure range	9'...10' digit
See codes in table	xx

Coding	Ranges in mbar	MCX	
		Ø 100	Ø 150
48	-6 + 0		●
49	-10 + 0		●
50	-16 + 0	*	●
51	-25 + 0	X	●
52	-40 + 0	X	●
53	-60 + 0	X	●
54	-100 + 0	X	●
55	-160 + 0	X	●
56	-250 + 0	X	●
57	-400 + 0	X	●
58	-600 + 0	X	●
01	0 + 4		*
02	0 + 6		●
03	0 + 10	*	●
04	0 + 16	X	●
05	0 + 25	X	●
06	0 + 40	X	●
07	0 + 60	X	●
08	0 + 100	X	●
09	0 + 160	X	●
10	0 + 250	X	●
11	0 + 400	X	●
12	0 + 600	X	●
60	-4 + 6	*	●
61	-6 + 10	X	●
62	-10 + 16	X	●
63	-16 + 25	X	●
64	-25 + 40	X	●
65	-40 + 60	X	●
66	-60 + 100	X	●
67	-100 + 160	X	●
68	-160 + 250	X	●
69	-250 + 400	X	●

Symbols	Angle	Accuracy %
X	270°	± 1.6
●	270°	± 2
*	180°	± 2.5

Some products of the range MCX5 are one day delivery time (ex-works) : consult us