

# MCX Capsule pressure gauges

Ø 100 - 150 mm

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

Accuracy  $\pm 1.6\%$  and  $\pm 2,5\%$

Withstands overranges

Conform to EN 837-3

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 and pressure and vacuum)

**Standard accuracy**  
 $\pm 1.6\%$  full scale (Ø 100).  
 $\pm 2,5\%$  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® - FKM.

**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

Special graduations

Plexiglas window

Red index pointer on dial

Adjustable index pointer with polycarbonate window

Oxygen application

Stainless steel movement ( $P \geq 16$  mbar)

ATEX version CE II 2 GDc- I M2c : glass window model only.

MCX type with solid baffle

**Code 0752**

**Code 0051**

**Code 0052**

**Code 0765**

**Code 0651**

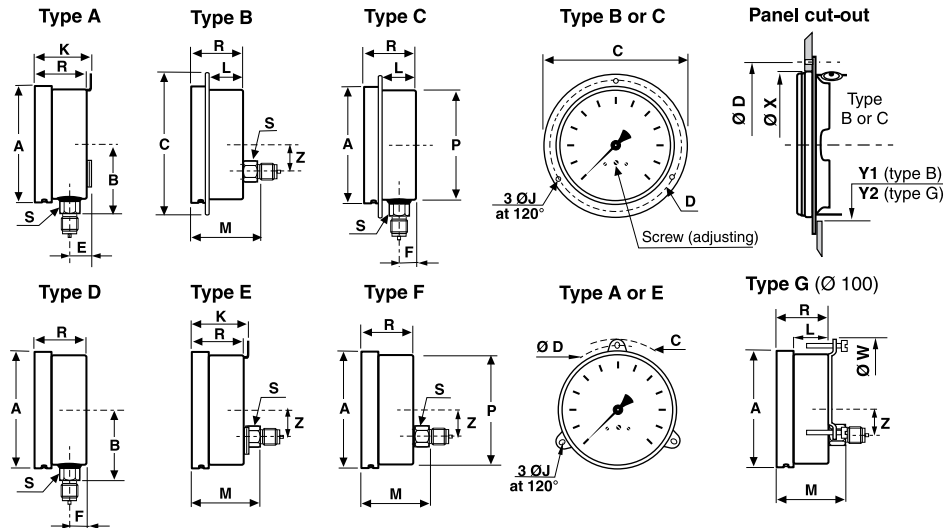
**Code 0078**

**MCF**



**Baumer**

## 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

		Mxxxxx0Nxx
<b>Family</b>	1' digit	
Pressure gauges		M
<b>Type</b>	2'...3' digit	
MCX		CX
<b>Dial diameter</b>	4' digit	
Ø 100 mm		5
Ø 150 mm		7
<b>Type of mounting* and connection position</b>	5' digit	
bottom connection, 3 back lug		A
back connection, front flange		B
bottom connection		D
Back connection, 3 back lugs fixing		E
back connection		F
Back connection with clamp (Ø 100 mm only)		G
* Option : stainless steel case 1.4404 (316L) change A with 1, B with 2, D with 4, E with 5, F with 6 and G with 7		
<b>Hydraulic connection</b>	6' digit	
G 1/4		2
G 1/2		3
1/4 NPT		5
1/2 NPT		6
<b>Type of liquid filling</b>	7' digit	
Without filling		0
<b>Unit of measurement</b>	8' digit	
mbar		N
<b>Pressure range</b>	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