



**BOURDON**  
The Original by Baumer



### Main Features

- For corrosive gasses and aggressive atmosphere
- Class 1.6 and 2.5 according to EN 837-3
- Wetted parts Stainless steel and Viton® FKM
- Option : case material 1.4404 (316L) for aggressive atmosphere

### Applications

- Laboratory & Medical
- Oil & Gas / Chemical
- Machinery

### Technical Data

Nominal size	MCX5/MCF5 : 100 mm MCX7/MCF7 : 150 mm	Case	Stainless steel 1.4301 (AISI 304) Option: Stainless steel 1.4404 (AISI 316L)
Measurement range	MCX5/MCF5 : 0 ... 16 to 0 ... 600 mbar MCX7/MCF7 : 0 ... 6 to 0 ... 600 mbar and corresponding vacuum and compound pressure ranges	Bezel ring	Stainless steel 1.4301 (AISI 304) Option: Stainless steel 1.4404 (AISI 316L)
Pressure limitation	Steady : 75% of full scale value Fluctuating: 65% of full scale value Short time: 100% of full scale value Integrated safety valve allows short time overpressure of 20 times full scale value for positive pressure ranges. (Not for vacuum and compound pressure ranges)	Movement	Brass
Accuracy (according EN 837-3)	Class 1.6 (Ø 100) Class 2.5 (Ø 150)	Window	Instrument glass
Protection rating	IP 65 (EN 60529)	Window gasket	Elastomer
Process connection	Stainless steel 1.4404 (AISI 316L)	Dial	Aluminium, white
Capsule	Stainless steel 1.4404 (AISI 316L)	Pointer	Aluminium, black
Safety valve	Viton® - FKM	Temperature	Ambient : -20 ... +60°C Medium: -20 ... +60°C Storage: -40 ... +70°C
		Zero adjustment	± 10% of F.S. Adjustment screw accessible on the front side after removing of bezel ring and window

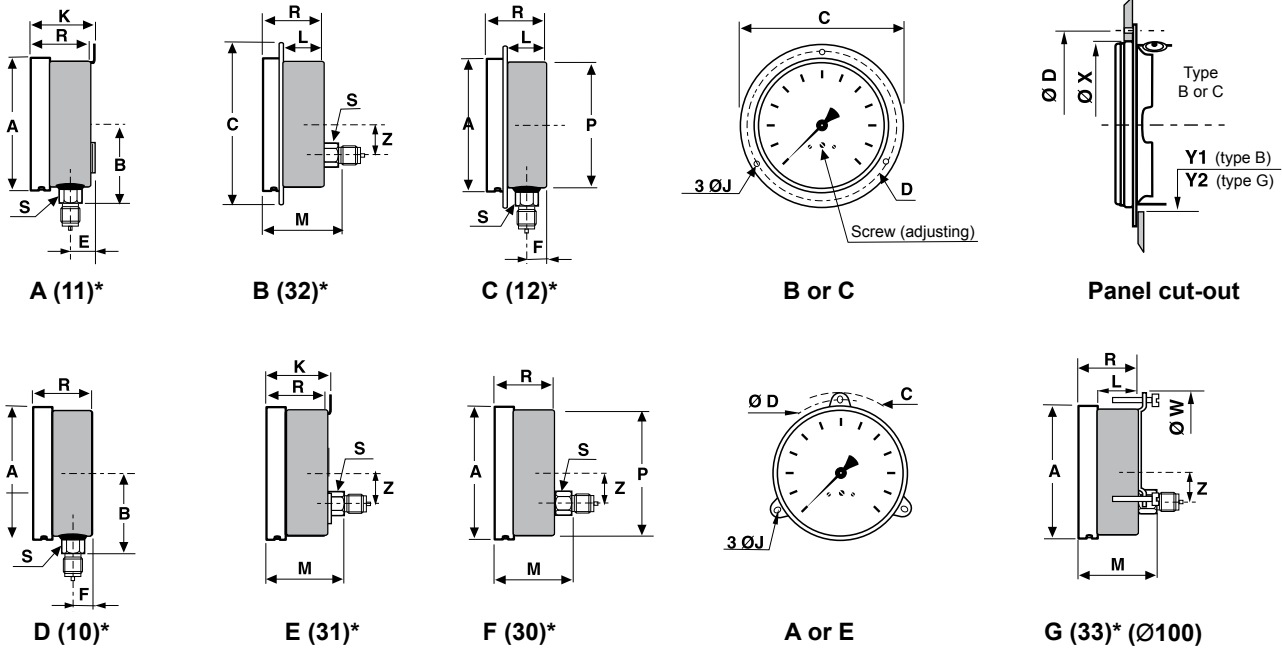
### Options

Polycarbonate window with index pointer adjustable by fixed button	Code 0052
ATEX II2GDc-IM2c (Including window laminated safety glass)	Code 0078
Stainless steel movement (P ≥ 16 mbar)	Code 0651
Window laminated safety glass (standard MCF)	Code 0751
Window Plexiglas	Code 0752
Oxygen application	Code 0765
Restrictor screw Ø 0,5 mm (for fittings > ¼")	Code 0771

### To be ordered separately

Material certificate 3.1 EN10204	Code Q1229
Calibration certificate EN837-1 (5 points raising and 5 points falling)	Code Q1070

## Dimensions - Types of mounting



\*Type of mounting according to EN837-1 in brackets

mm	A	B	C	D	E	F	J	K	L	M	P	R	S	W	X	Y1	Y2	Z	Weight
NS 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
NS 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

## Pressure ranges

Code	mbar
N48	-6 ... 0 <sup>(1)</sup>
N49	-10 ... 0 <sup>(1)</sup>
N50	-16 ... 0 <sup>(2)</sup>
N51	-25 ... 0
N52	-40 ... 0
N53	-60 ... 0
N54	-100 ... 0
N55	-160 ... 0
N56	-250 ... 0
N57	-400 ... 0
N58	-600 ... 0

Code	mbar
N01	0 ... 4 <sup>(1)(3)</sup>
N02	0 ... 6 <sup>(1)</sup>
N03	0 ... 10 <sup>(2)</sup>
N04	0 ... 16
N05	0 ... 25
N06	0 ... 40
N07	0 ... 60
N08	0 ... 100
N09	0 ... 160
N10	0 ... 250
N11	0 ... 400
N12	0 ... 600

Code	mbar
N60	-4 ... 6 <sup>(2)</sup>
N61	-6 ... 10
N62	-10 ... 16
N63	-16 ... 25
N64	-25 ... 40
N65	-40 ... 60
N66	-60 ... 100
N67	-100 ... 160
N68	-160 ... 250
N69	-250 ... 400

<sup>(1)</sup> Only available in NS 150

<sup>(2)</sup> NS 100: graduation 180° accuracy class 2.5

<sup>(3)</sup> NS 150: graduation 180°

## Ordering details MCX - MCF

		-		.	xxx	/
<b>Model</b>						
Industrial capsule pressure gauge	MCX					
Industrial capsule pressure gauge with baffle wall	MCF					
<b>Nominal size</b>						
100 mm			5			
150 mm			7			
<b>Type of mounting</b>						
<b>Stainless steel case and bezel ring 1.4301 (AISI 304)</b>						
Bottom connection, 3 back lugs fixing						A
Back connection, front flange, 3 mounting holes						B
Bottom connection						▶ D
Back connection, 3 back lugs fixing						E
Back connection						▶ F
Back connection with clamp						G
<b>Stainless steel case and bezel ring 1.4404 (AISI 316L)</b>						
Bottom connection, 3 back lugs fixing						1
Back connection, front flange, 3 mounting holes						2
Bottom connection						4
Back connection, 3 back lugs fixing						5
Back connection						6
Back connection with clamp						7
<b>Process connection</b>						
G 1/4						2
G 1/2						▶ 3
1/4 NPT						5
1/2 NPT						▶ 6
M20 x 1.5						9
<b>Liquid filling</b>						
Dry						0
<b>Unit of measurement / Pressure ranges <sup>(4)</sup></b>						
mbar						▶ Nxx
mmH <sub>2</sub> O						Rxx
inH <sub>2</sub> O						Zxx

Options to be added behind the / (see example below)

( ▶ Standard version)

<sup>(4)</sup> Available standard pressures ranges, see tables on page 2. For ranges not listed, please contact Baumer.

## Ordering example with options

	MCX	7	-	B	6	0	.	N49	/	0752	-	0765	-	0771
Industrial capsule pressure gauge	MCX								/					
Nominal size 150 mm		7												
Back connection, front flange, 3 mounting holes, case material 1.4301			-	B										
Process connection 1/2 NPT					6									
No liquid filling						0	.							
Scale mbar : -10 ... 0 mbar								N49	/					
Option : Plexiglas window										0752	-			
Option : Oxygen application												0765	-	
Option : Restrictor screw Ø 0.5 mm														0771