Baumer
Passion for Sensors

MCX - MCF

Capsule Pressure Gauges



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

EN-837-3 IP 65

Technical Data

Nominal size	MCX5/MCF5 : MCX7/MCF7 :	100 mm 150 mm
Measurement range	MCX5/MCF5 : MCX7/MCF7 : and corresponding vacuum and compound pressure ranges	0 ... 16 to 0 ... 600 mbar 0 ... 6 to 0 ... 600 mbar
Pressure limitation	Steady : Fluctuating: Short time: Integrated safety valve allows short time overpressure of 20 times full scale value for positive pressure ranges. (Not for vacuum and compound pressure ranges)	75% of full scale value 65% of full scale value 100% of full scale value
Accuracy (according EN 837-3)	Class 1.6 (Ø 100) Class 2.5 (Ø 150)	
Protection rating	IP 65 (EN 60529)	
Process connection	Stainless steel 1.4404 (AISI 316L)	
Capsule	Stainless steel 1.4404 (AISI 316L)	
Safety valve	Viton® - FKM	

Case	Stainless steel 1.4301 (AISI 304) Option: Stainless steel 1.4404 (AISI 316L)	
Bezel ring	Stainless steel 1.4301 (AISI 304) Option: Stainless steel 1.4404 (AISI 316L)	
Movement	Brass	
Window	Instrument glass	
Window gasket	Elastomer	
Dial	Aluminium, white	
Pointer	Aluminium, black	
Temperature	Ambient : Medium: Storage:	-20 ... +60°C -20 ... +60°C -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

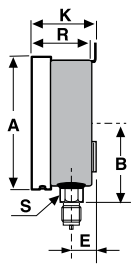
To be ordered separately

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

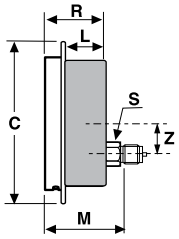
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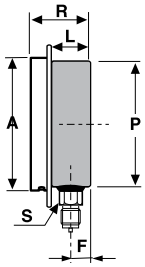
Dimensions - Types of mounting



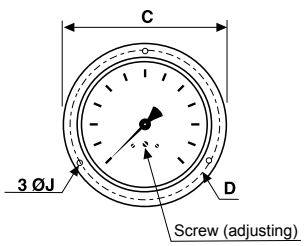
A (11)*



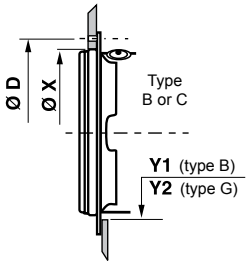
B (32)*



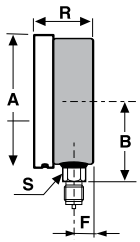
C (12)*



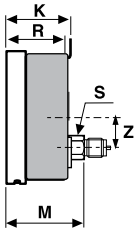
B or C



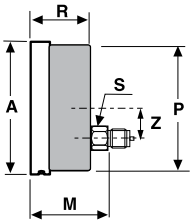
Panel cut-out



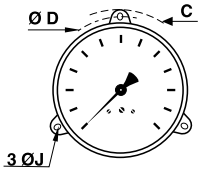
D (10)*



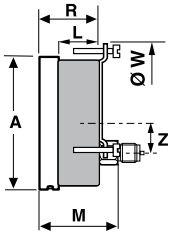
E (31)*



F (30)*



A or E



G (33)* (Ø100)

*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 (1)
N49	-10 ... 0 (1)
N50	-16 ... 0 (2)
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 (1) (3)
N02	0 ... 6 (1)
N03	0 ... 10 (2)
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 (2)
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

(1) Only available in NS 150
(2) NS 100: graduation 180° accuracy class 2.5
(3) NS 150: graduation 180°

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MCX - MCF
Capsule Pressure Gauges

Ordering details MCX - MCF

			_				.	xxx	/
Model									
Industrial capsule pressure gauge	MCX								
Industrial capsule pressure gauge with baffle wall	MCF								
Nominal size									
100 mm		5							
150 mm		7							
			–						
Type of mounting									
Stainless steel case and bezel ring 1.4301 (AISI 304)									
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					
Stainless steel case and bezel ring 1.4404 (AISI 316L)									
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					
Process connection									
G 1/4					2				
G 1/2					**3**				
1/4 NPT					5				
1/2 NPT					**6**				
M20 x 1.5					9				
Liquid filling									
Dry						0			
							.		
Unit of measurement / Pressure ranges [4]									
mbar								**Nxx**	
mmH_2O								Rxx	
inH_2O								Zxx	
Options to be added behind the / (see example below)									/

(▸ Standard version)

[4] 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

Industrial capsule pressure gauge
Nominal size 150 mm
Back connection, front flange, 3 mounting holes, case material 1.4301
Process connection 1/2 NPT
No liquid filling
Scale mbar : -10 ... 0 mbar
Option : Plexiglas window
Option : Oxygen application

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