Baumer
Passion for Sensors

MX-MZ-MT-MQ

Differential pressure gauges

Main Features

- For corrosive process fluids and atmospheres
- Accuracy ± 2 % F.S.
- Static pressure max. 100 bar
- Housing and wetted parts stainless steel

Applications

- Food & Beverage
- Laboratory & Medical
- Oil & Gas / Chemical
- Water & Waste water
- Energy
- Transportation & Logistics
- Machinery

Technical Data

Nominal size	150 mm
Measurement range	0 ... 0.1 to 0 ... 25 bar
Static pressure	Selectable, max. 100 bar (see table on page 2)
Allowed single-sided overpressure	Up to the selected static pressure, limited at a maximum of 25 bar
Accuracy	± 2 % F.S. for standard ranges (see table on page 2)
Protection rating	IP 65 (EN 60529)
Process connection	Stainless steel 1.4404 (AISI 316L)
Bellows	Stainless steel 1.4404 (AISI 316L) (2 bellows per gauge)
Case	Stainless steel 1.4301 (AISI 304)
Bezel ring	Stainless steel 1.4301 (AISI 304)
Movement	Stainless steel
Window	Instrument glass
Window gasket	Elastomer
Dial	Aluminium, white
Pointer	Aluminium, black
Temperature	Ambient : -20 ... +70°C Medium : -40 ... +200°C (not filled) For liquid filled version see ordering details. The case temperature must not exceed +70°C Storage : -40 ... +70°C
Safety	Pressure gauge with blow-out device Fulfills requirements for S1 gauges according to EN 837

Options

Polycarbonate window with index pointer adjustable by fixed button	Code 0052
ATEX II2GDc-IM2c *(Including window laminated safety glass)*	Code 0078
Adjustable micro metric pointer (P ≥ 0.6 bar)	Code 0678
Adjustable friction pointer	Code 0679
Window laminated safety glass	Code 0751
Window Plexiglas	Code 0752
Window Hardened glass	Code 0756
Oxygen apllication	Code 0765
Laboratory cleanliness	Code 0835
Nuclear cleanliness	Code 0838

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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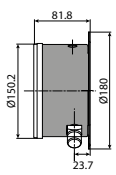
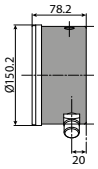
Differential pressure gauges

Dimensions - Types of mounting

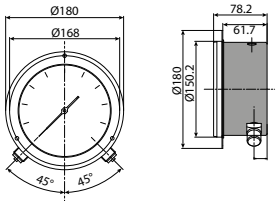
MX - MT



Type A



Type D



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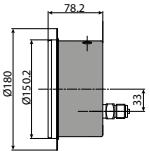
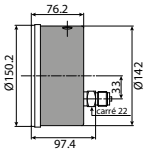
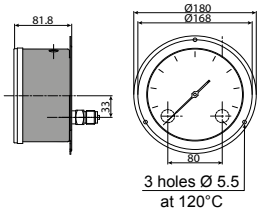


Type B

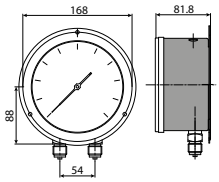


Type F

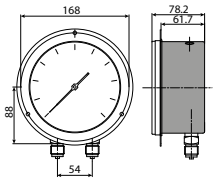


Type E

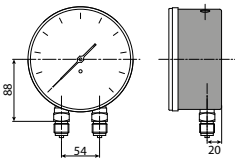
MZ - MQ



Type A

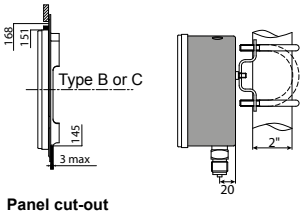


Type C



Type D

MX - MZ - MT - MQ



Panel cut-out

Type P

Weight (kg)
Filled : 2.5
Unfilled : 1.6

Pressure ranges

Code	Bar		
B08	0	...	0.1
B09	0	...	0.16
B10	0	...	0.25
B11	0	...	0.4
B12	0	...	0.6
B15	0	...	1
B16	0	...	1.6
B18	0	...	2.5
B19	0	...	4
B20	0	...	6
B22	0	...	10
B24	0	...	16
B26	0	...	25

Code	kPa		
D08	0	...	10
D09	0	...	16
D10	0	...	25
D11	0	...	40
D12	0	...	60
D15	0	...	100
D16	0	...	160
D18	0	...	250
D19	0	...	400
D20	0	...	600
D22	0	...	1 000
D24	0	...	1 600
D26	0	...	2 500

Code	kg/cm²		
F08	0	...	0.1
F09	0	...	0.16
F10	0	...	0.25
F11	0	...	0.4
F12	0	...	0.6
F15	0	...	1
F16	0	...	1.6
F18	0	...	2.5
F19	0	...	4
F20	0	...	6
F22	0	...	10
F24	0	...	16
F26	0	...	25

Ordering code for maximum static pressure

A	C	D	E	F	G	H	J	K	L	M	N
1)	1)	2)	2)	2)	2)						
1)	1)	1)	2)	2)	2)	2)					
•	•	•	•	1)	1)	1)	2)				
•	•	•	•	•	1)	1)	2)	2)			
•	•	•	•	•	•	1)	1)	2)			
	•	•	•	•	•	•	1)	1)	2)		
		•	•	•	•	•	•	1)	2)		
			•	•	•	•	•	•	1)		
				•	•	•	•	1)	1)	2)	
					•	•	•	•	•	2)	2)
						•	•	•	•	1)	2)
							•	•	•	•	1)
								•	•	•	•

Static pressure (bar)	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100

- • Scale 270°, accuracy ± 2 % (± 3 % with liquid filling)
- 1) Scale 270°, accuracy ± 4 % (± 5 % with liquid filling)
- 2) Scale < 270°, accuracy ± 4 % (± 5 % with liquid filling)

MX-MZ-MT-MQ

Differential pressure gauges

Ordering details MX-MZ-MT-MQ

	M		7	–				.	xxx		/
Model											
Differential pressure gauge	M										
Type of housing											
Process connection 90° bottom (V-type) or lower back		X									
Process connection 90° bottom (V-type) or lower back, baffle wall		T									
Process connection bottom parallel		Z									
Process connection bottom parallel, baffle wall		Q									
Nominal size											
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 [1]					B						
Bottom connection, front flange, 3 mounting holes					C						
Bottom connection					D						
Back connection, 3 back lugs fixing [1]					E						
Back connection [1]					F						
Bottom connection with mounting bracket for 2” tubes					P						
Stainless steel case and bezel ring 1.4404 (AISI 316L)											
Bottom connection, 3 back lugs fixing					1						
Back connection, front flange, 3 mounting holes [1]					2						
Bottom connection, front flange, 3 mounting holes					3						
Bottom connection					4						
Back connection, 3 back lugs fixing [1]					5						
Back connection [1]					6						
Bottom connection with mounting bracket for 2” tubes					8						
Process connection											
G 1/2						3					
1/2 NPT						6					
Liquid filling											
Dry							0				
BH1: low viscosity glycerin/water 86% (medium : -20 ... +70°C) [2]							1				
BH2: high viscosity glycerin 99.5% (medium : 0 ... +90°C) [2]							2				
BH3: silicone oil (medium : -40 ... +100°C) [2]							3				
BH4: low temperature silicone (medium : -60 ... +100°C) [2]							4				
BH5: Fluor carbon for oxygen use (medium : -15 ... +100°C) [2]							5				
								.			
Unit of measurement / Pressure ranges											
bar									Bxx		
psi									Hxx		
kPa									Dxx		
MPa									Exx		
mbar									Nxx		
kg/cm²									Fxx		
Max. static pressure											
See table on page 2										x	
Options to be added behind the / (see example below)											/

[1] Not available for types of housing Z and Q
[2] The accuracy of filled gauges is reduced (see table on page 2)

Ordering example with options

MX	7	–	B	6	0	.	B22	H	/	0751	_	0679

Differential 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 bar : 0 ... 10 bar
Max. static pressure : 10 bar
Option : Window laminated safety glass
Option : Adjustable friction pointer