

MEX2-MEX3-MEM2-MEM3 Industrial Pressure Gauges

Ø 50, 63 mm

Robust for harsh environments and aggressive fluids

Watertight, can be filled with a dampening liquid

Accuracy $\pm 1.6\%$ (option $\pm 1\%$)

Resistant to transient overpressure

Stainless steel sensing element (MEX) or monel (MEM)

Fully welded process connection

Conform to EN 837-1 standard and Pressure Directive PED 97/23/CE

Approval Lloyd's Register

Pressure gauges intended for process industries such as chemical, petro-chemical, energy or gas industries.

These pressure gauges have been designed to satisfy requirements to operate in aggressive environments. All of the external components, together with the measurement element and connection are made of stainless steel.



Technical Data (20°C)

Options

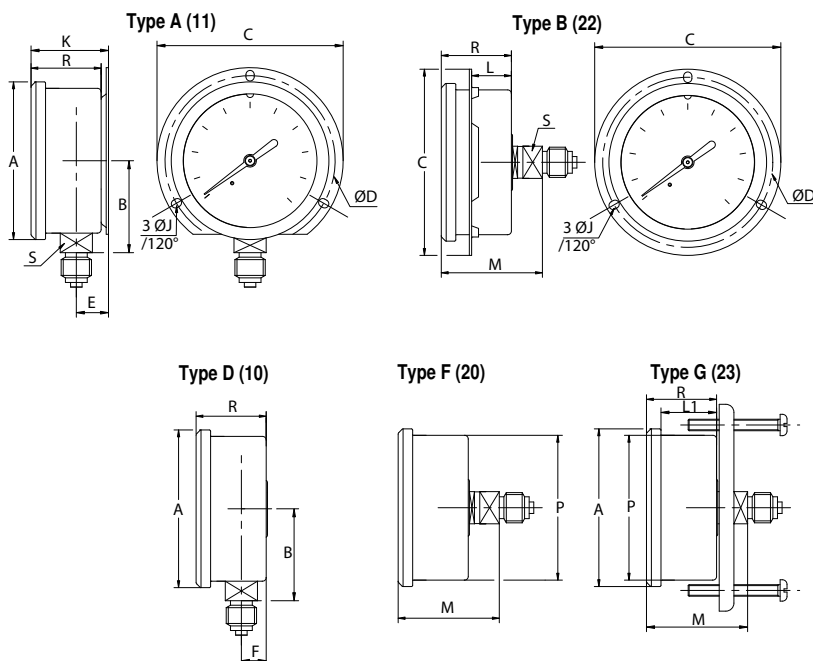
Measurement range	MEX : from - 1...0 to 0...1000 bar. MEM : from -1...0.6 to 0...400 bar.
Working pressure	Steady: 75% of full scale value Short time: 100% of full scale value
Accuracy	Class 1.6
IP rating	IP 65 according to EN 60529
Gauge working temperature	-20...70°C The gauge may be used on fluid temperatures up to 200°C providing that the gauge temperature does not exceed 70°C.
Sensing element	Stainless steel 1.4571 or 1.4404 - solid drawn tube (MEX2-MEX3) Monel 400 (MEM2-MEM3)
Tube shape	≤ 100 bar in C > 100 bar in helicoil
Temperature error	Additional error when temperature changes from reference temperature of 20°C (68°F) $\pm 0.4\%$ for every 10°C (50°F) rising or falling. Percentage of span.
Case	Stainless steel 1.4301 (AISI 304) for MEX2-MEX3 Monel 400 for MEM2-MEM3
Connection material	Stainless steel 1.4571 or 1.4404 for MEX2-MEX3 Monel 400 for MEM2-MEM3
Connection shape	14 mm square
Threading	G 1/4 or 1/4 NPT
Bezel ring	Stainless steel 1.4404 (AISI 316L) Crimped on case (MEX2) Bayonet lock type (MEX3) except type G crimped on case
Window	Glass (S1 - EN 837-1 only window polycarbonate and Triplex)
Blow-out disc	Elastomer
Window gasket	Elastomer
Movement	Stainless steel
Pointer	Plastic
Dial	Aluminium alloy, rubber zero stop. Black figures on white background
Types of mounting	see overleaf

Polycarbonate window.	Code 0753
Triplex glass window.	Code 0751
Restrictor screw.	Code 0769
Oxygen application.	Code 0765
Aluminium pointer.	Code 0683
Class 1 accuracy (except 1000 bar and BH).	Code 0841
1.4404 (AISI 316L) stainless steel sensing element.	Code 0816
ATEX version CE II 2 GDc - I M2c : glass window model only.	Code 0078
Special scales	
Special threads ($\leq 1/4"$).	
Set clamp MEX2-MEX3 for conversion into F on G "U-CLAMP MEX3"	



Baumer

Dimensions - Type of mounting



Type Ø	Weight kg	
50	Dry	0.10
63		0.13
50	Filled	0.15
63		0.18

Ø Dimensions	MEX2	MEX3
A	55,6	68,8
B	34	40,4
C	68	81
D	60	75
E	14	14
F	11	10,8
J	3,6	3,6
K	34	34
L	17,3	17,3
L1	23,5	23,5
M	44	44
P	51	63
R	30,5	30,2
S	14	14

Panel cut-outs for types B MEX2 = Ø 53,5 mm
MEX3 = Ø 65,5 mm

Ordering Details - MEX2-MEX3-MEM2-MEM3

MExxxxxxx	
Model	1' ... 3' digit
All Stainless steel Pressure Gauge	MEX
Pressure Gauge Monel with sensing element	MEM
Dimension nominal	4' digit
50 mm	2
63 mm	3
Type of mounting*	5' digit
Bottom connection back flange	A
Back connection, front flange	B
Bottom connection	D
Back connection	F
Back connection with clamp	G
* Option : case stainless steel 1.4403 (316L) replace A with 1, B with 2, D with 4, F with 6 and G with 7	
Hydraulic connection	6' digit
G1/4	2
1/4NPT	5
Liquid filling	7' digit
Without	0
BH1	1
BH2	2
BH3 (silicone)	3
BH5 (oxygen 160 bar max.)	5
Unit of measurement	8' digit
bar	B
kPa	D
kg/cm ²	F
psi	H
Pressure range	9' ... 10' digit
See codes in table	

coding	Ranges bar	coding	Ranges psi
59*	-1 + 0	59	-30"Hg + 0
72	-1 + 0.6	73	-30"Hg + 15
74	-1 + 1.5	75	-30"Hg + 30
76	-1 + 3	2C	-30"Hg + 60
77	-1 + 5	78	-30"Hg + 100
79	-1 + 9	79	-30"Hg + 150
81	-1 + 15	81	-30"Hg + 220
82	-1 + 24	82	-30"Hg + 300
15*	0 + 1	15	0 + 15
16	0 + 1.6	1C	0 + 20
18*	0 + 2.5	17	0 + 30
19	0 + 4	19	0 + 60
20	0 + 6	21	0 + 100
22	0 + 10	22	0 + 160
24	0 + 16	23	0 + 200
26*	0 + 25	25	0 + 300
27	0 + 40	26	0 + 400
29	0 + 60	27	0 + 600
31	0 + 100	30	0 + 1000
33	0 + 160	31	0 + 1500
35	0 + 250	34	0 + 3000
38	0 + 400	38	0 + 6000
39	0 + 600	39	0 + 9000
41	0 + 1000	41	0 + 15000

*only MEX3 for 1 day manufacturing

Monel version (MEM) is not available in codes 59,39 and 41

Uncoded options

PNEUMATIC RECEIVER	0,2 - 1 bar 3-15 psi
0 - 10 lin.	
0 - 10 √	
0 - 100 lin.	
0 - 100 √	