

Pressure gauge for general industries series MBX3

Glycerine / Silicon liquid filled St. steel case & wetted parts brass
St. steel case & wetted parts brass

General specification

- Pressure ranges from -1...0 bar to 0...1000 bar
- Accuracy class 1.6
- Case - stainless steel
- Sensing element & connection - brass

Application area

- series MBX is suitable for use in various sectors of industry
- High quality design for measuring gaseous, liquid
- For gaseous and liquid media which are not highly viscous, do not crystallise and do not attack copper alloy
- For measurements in areas with high vibration levels and high, dynamic pressure loads.

General specification

Size

63mm

Design

ASME B40.100 & EN 837-1

Pressure range

-1...0 to 0...1000 bar

Accuracy class

Class 1.6% per EN 837-1

Pressure ranges

Vacuum & compound range: up to -1 to 16 bar
-1...0 to 0...1000 bar

Working pressure

- Steady: 3/4 full-scale value
- Fluctuating: 2/3 full-scale value
- Short time: full-scale value

Bourdon Tube

Brass ≤ 600bar
St. steel ≥ 1000 bar

Movement

Brass

Dial

White ABS



Bourdon tube pressure gauge with liquid filled, series

Pointer

Black plastic

Window

Polycarbonate with Buna-N gasket

Case and bezel ring

St. steel 304, case
St. steel 304, crimped-on bezel ring
with blow-out disc at the top of the case
Case connection sealed with band-ring
- 63 mm: Rubber for Glycerine filled
Viton band-ring

Case filling

glycerine 85%

Temperature

Ambient: -40...+60°C / dry
-20...+60°C / glycerine filled
-40...+60°C / silicon oil filled / Option
Medium: max. +60°C
Storage: -20...+60°C

Process Connection

Material: Copper alloy
G1/4", PT1/4"(R1/4"), 7/16"-20UNF male

Degree of protection

IP 65



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for general industries
series MBX3**

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St. steel case & wetted parts brass

Type of mounting

Type A : Bottom connection
Type B : Bottom connection with back flange
Type D : Center back connection - CBM
Type BD : Center back connection with front flange

Options

- Increased medium temperature with special soft solder
- NS 63: 100 °C
- Ambient temperature resistant -40...+60°C
with silicone oil filling
- NS 50: Higher scale ranges up to 0...1,000 bar
- Brass restrictor for small hole
- Zinc-plated steel or SS U-clamp brack / field installable
- Green marking depends on customer design
- Mounting clamp for back connection
- Other pressure scale available



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Ordering information

MODEL CODE

MBX

Dial size

3 : 63 mm

Mounting

- 1 : Bottom connection
- 2 : Bottom connection with back flange
- 3 : Back connection
- 4 : Back connection with front flange

Liquid filling

- 0 : Dry
- 1 : Glycerin
- 2 : Silicon

Option

Refer to option table

Pressure range

Refer to pressure range table

Unit of measurement

B: bar D: dual scale (MPa/bar)
M: MPa G: dual scale(kgf/cm2/MPa)
P: psi X: kgf/cm2
K: KPa

Process connection

G4 : PF 1/4"
R4 : PT 1/4"
N4 : NPT 1/4"

Pressure range code, unit bar

Code	Range	Code	Range	Code	Range	Code	Range
R05	-1...24	R19	-1...0	R33	0...10	R47	0...250
R06	-1...20	R20	-0.6...0	R34	0...15	R48	0...300
R07	-1...15	R21	0...0.6	R35	0...16	R49	0...350
R08	-1...10	R22	0...0.8	R36	0...20	R50	0...400
R09	-1...9	R23	0...1	R37	0...25	R51	0...450
R10	-1...6	R24	0...1.2	R38	0...35	R52	0...500
R11	-1...5	R25	0...1.5	R39	0...40	R53	0...600
R12	-1...4	R26	0...1.6	R40	0...50	R54	0...700
R13	-1...3	R27	0...2	R41	0...60	R55	0...1000
R14	-1...2	R28	0...2.5	R42	0...70	RYY	Others
R15	-1...1.5	R29	0...3	R43	0...100		
R16	-1...1	R30	0...4	R44	0...150		
R17	-1...0.6	R31	0...5	R45	0...160		
R18	-1...0.25	R32	0...6	R46	0...200		

Option code

Code	Description	Code	Description
ND	New dial design	TP	St. stell tag plate, 60 x 20 x 0.5t
NF	New dial face printing cost per pcs	DMCC	Manufacture calibration certificate
GM	Green marking per pcs	KC	KOLAS Ilac-MRA calibration certificate
CD	New dial face design with company logo	RE	Reed switch
RS	Restrictor screw in socket hole for high pulsation	SN	Snubber
UC	U-clamp for back connection, steel	AD	Adaptor
NO	"USE No OIL" per pcs, at least ≥ 10 pcs	CC	Certificate of conformance / origin
OF	Oval 3-hole front flange	PM	2" Pipe mounting bracket
MP	Maximum red pointer	NC	Ni-Cr Plate
BB	Bayonet bezel ring for MAXK.5xx	AL	Aluminium pointer for MAXK.3xx

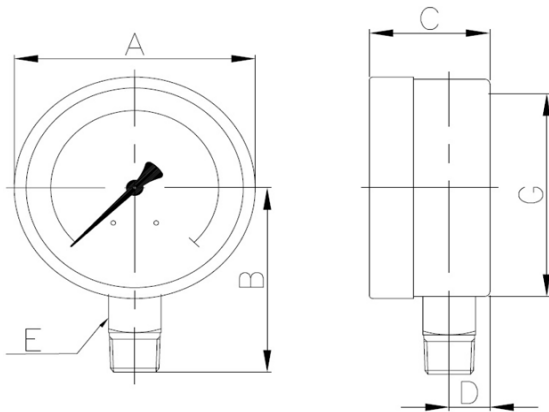
How to order

MBX.310.R4DR40.GM

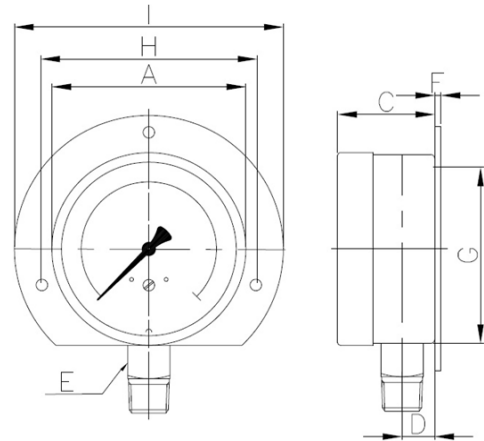
MBX, 63mm, A-type, Dry, PT 1/4", 0...25 bar/MPa, Green marking(custom)

Outline drawing

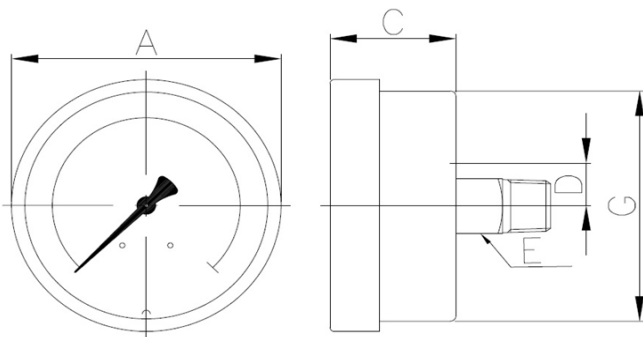
A : Bottom connection



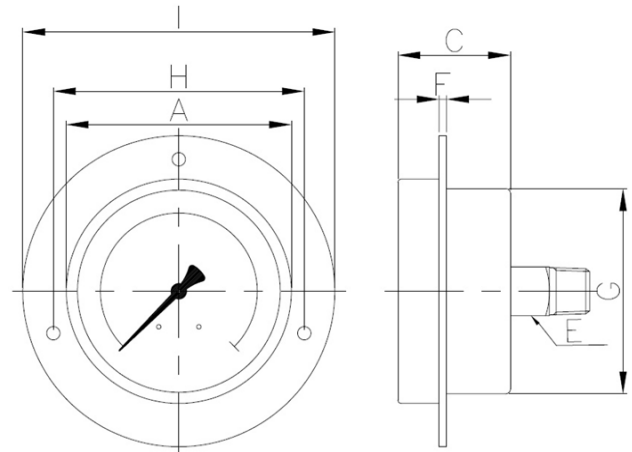
B : Bottom connection with Back Flange



D : Back connection / center back



BD : Back connection with Front Flange



Dimension (mm)

Series MBX	A	B	C	D	E	F	G	H	I
MBX.3xx	68	57	32	11	14	1.2	62	75	85

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