PMP04

Diaphragm Pressure Gauge

- for aggressive, highly viscous, crystallizing media
- nominal sizes 100, 160, 250 mm
- accuracy class 1,6
- versions aluminium / brass, aluminium / st. steel or completely in stainless steel
- insensitive to shocks and vibrations
- · high overpressure safety





Description:

The diaphragm pressure gauges are equipped with a thin, circular, corrugated diaphragm which is fixed between two flanges and is exposed to the medium on one side. The deflection of the diaphragm caused by the medium pressure is indicated by a pointer mechanism.

Diaphragm pressure gauges are insensitive to vibrations and can optionally be supplied with high overpressure safety. Due to an appropriate coating of the diaphragm, the devices can also be used under particularly rough conditions and aggressive media.

Typical applications:

Due to their design principle and material selection, diaphragm pressure gauges meet the tough requirements that arise when used in industrial production plants.

Open connecting flanges allow the use even with highly viscous crystallizing and contaminated media, since tehere are no dead spaces in this design which allow the build-up of deposits. Diaphragm pressure gauges are often used in the food and beverage industry as well as in machine, plant and apparatus engineering.



Models:

Nominal sizes: housing diameter 100,

160 or 250 mm

Materials:

PMP04.x.A: stainless steel housing 1.4301,

> upper and lower flange made of aluminium, st. steel measuring element 1.4571, brass connection

PMP04.x.M: stainless steel housing 1.4301,

upper flange made of aluminium, lower flange made of st. st. 1.4571, stainless steel connection 1.4571

stainless steel housing 1.4301

upper and lower flange made of stainless steel 1.4571, st. steel measuring element and connection

Process connection: G 1/2 (standard)

flange connection DN 25, DN 50,

DN 64, ANSI

Measuring Ranges:

PMP04.x.E:

	Order code			
Measuring range [mbar]				
		For all nominal sizes		
-12000	P17	S17	T17	V17
010	P58	-	-	-
016	P59	-	-	-
025	P60	-	-	-
040	P61	-	T61	V61
060	P62	-	T62	V62
0100	P63	-	T63	V63
0160	P64	-	T64	V64
0250	P65	-	T65	V65
0400	P66	-	T66	V66
[bar]				
-10	P16	S16	T16	V16
-0,6+1,0	P18	S18	T18	V18
-1+0,6	P42	S42	T42	V42
-1+1,5	P43	S43	T43	V43
-1+3	P44	S44	T44	V44
-1+5	P45	S45	T45	V45
-1+9	P46	S46	T46	V46
-1+15	P49	S49	T49	V49
-1+25	P52	S52	T52	V52
00,6	P67	S67	T67	V67
01	P69	S69	T69	V69
01,6	P70	S70	T70	V70
02,5	P72	S72	T72	V72
04	P73	S73	T73	V73
06	P74	S74	T74	V74
010	P75	S75	T75	V75
016	P76	S76	T76	V76
025	P78	S78	T78	V78
040	P79	S79	T79	V79

Order Code:

Order number:

PMP04. 10. A.

P67. 0

Diaphragm pressure gauge

Models:

10 = 100 mm $16 = 160 \, \text{mm}$ 25 = 250 mm

Materials:

A = upper and lower flange alu., connection brass M = upper fl. alu., lower fl. st. st., connection st. st. E = upper and lower flange st. st., connection st. st.

Process connection:

1 = G 1/2, model P

2 = connection flange DN 25, model V 3 = connection flange DN 50, model T 4 = connection flange DN 64, model S

S = ANSI B16.5 150 / 300 lb / sq. in. (on request)

Measuring range:

P17...V79 = see table "Measuring Ranges"

Options and Accessories (multiple selection possible)

0 = without

xx = see table "Options and Accessories"

Technical Data:

Housing: round stainless steel housing,

> d = 100, 160, or 250 msprotection class IP45

Vibration damping: optional with glycerine filling

Measuring element: stainless steel diaphragm 1.4571

Pointer mechanism:

PMP04.x,A: brass base and cover plate,

barrel nickel silver

PMP04.x.M: brass base and cover plate,

barrel nickel silver

PMP04.x.E: stainless steel 1.4571/1.4301

Dial: aluminium, white, black font

according to EN 837-1

Viewing class:

PMP04.x.A: instrument glass

PMP04.x.M: laminated safety glass

PMP04.x.E: laminated safety glass

Accuracy: class 1,6

Max. media tempera-

ture: 100 °C

Overload safety: 5,0 times full scale value,

maximal 40 bar



Dimensions:

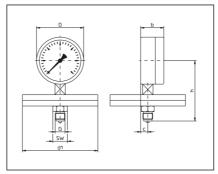
Dimension:	Value [mm] size 100, size 160, NG 250 G 1/2 / 10 - 400 mbar/ 0, 6 to 40 bar
b	50 / 50 / 55
С	15 / 14,5 / 16
D	100,8 / 161,3 / 251
G	G 1/2
h	129,5 / 168 / 209
d1	160 / 100
SW	27
weight without glycerine filling weight with glycerine filling	1,1 / 1,6 / 2,8 kg 1,4 / 2,5 / 5,0 kg

Dimension:	Value in [mm] size 100, size 160, size 250 DN64 / 0,6 - 40 bar
D	100,8 / 161,3 / 251
d1	100
d2	82
d3	75
е	1
f	19
G	M8
h	103,5 / 142 / 183
weight without glycerine filling weight with glycerine filling	1,3 / 1,8 / 3,0 kg 1,6 / 2,7 / 5,2 kg

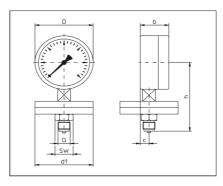
Options and Accessories:

Description:	Code	for type PMP04
PTFE lined	PE	all types
measuring system overpressure proof 10 – times, max. 40 bar	U	all types
meas. system vacuum-proof, - 1 bar measuring range ≥ 0,6 bar measuring range < 0,6 bar	А	all types
pointer with fine graduation and cutting edge pointer	ZF	all types
double scale (e.g. bar / psi)	SD	all types
movement CrNi- steel	ZC	all types
multiple scale	SM	all types
meas. system with venting and flushing valve	SH	all types
cliché creation for special scale (1-colored or multicolored)	SS1 SSx	all types
meas. syst. free of oil and grease for oxygen	MO	all types
measuring system silicone-free	MS	all types
glycerine filling, meauring. range < 0,6 bar ≥ 0,6 bar	ZG FK	all types
throttle screw in connection, d = 0,8 or 0,3 mm	D08 D03	all types
process connection 1/2 NPT	Px	all types
connection spigot drilled out to 8 mm	AG8	all types
connection spigot drilled out to 12mm	AG12	all types
medium resistance 200 °C	MB	all types
red stamp on dial	MR	all types
red mark pointer in the sight glass	ZR	all types
slave pointer, resettable, 1-times or 2-times	ZS1 ZS2	all types
red marker hand on the dial	ZR1	all types
calibratable acc. To calibration regulations	Е	all types

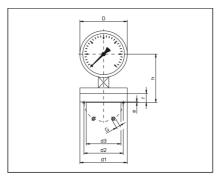
Models:



model P: 10 - 400 mbar



model P: 0,6 to 40 bar



model S: 0,6 to 40 bar

Dimensions:

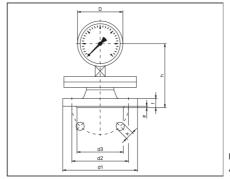
Dimension:	Value [mm] size 100 / size 160/ size 250 DN 50 / 40 - 400 mbar
D	100,8 / 161,3 / 251
d1	165
d2	125
d3	102
е	3
f	20
h	141 / 179,5 / 220,5
k	18
weight without glycerine filling weight with glycerine filling	5,0 / 5,5 / 6,7 kg 5,3 / 6,4 / 8,9 kg

Dimension:	Value [mm] size 100 / size 160/ size 250 DN 50/ 0,6 - 40 bar
D	100,8 / 161,3 / 251
d1	165
d2	125
d3	-
е	-
f	20
h	104, 5 / 143 / 184
k	18
weight without glycerine filling weight with glycerine filling	2,7 / 3,2 / 4,4 kg 3,0 / 4,2 / 5,6 kg

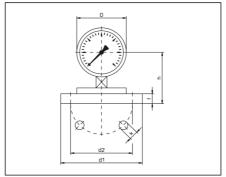
Dimension:	Value [mm] size 100 / size 160/ size 250 DN 25 / 40 - 400 mbar
D	100,8 / 161,3 / 251
d1	115
d2	85
d3	68
е	2
f	18
h	133 / 171,5 / 212,5
k	18
weight with glycerine filling weight with glycerine filling	3,2 / 5,3 / 6,8 kg 3,5 / 6,2 / 8,0 kg

Dimension:	Value [mm] size 100 / size 160/ size 250 DN 25/ 0,6 - 40 bar
D	100,8 / 161,3 / 251
d1	115
d2	85
d3	68
е	2
f	25
h	109, 5 / 148 / 189
k	-
weight without glycerine filling weight with glycerine filling	2,9 / 3,4 / 4,6 kg 3,1 / 4,3 / 5,7 kg

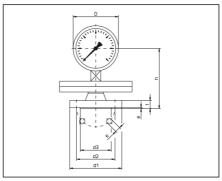
Models:



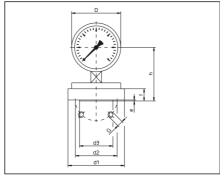
model T: 40 to 400 mbar



model T: 0,6 to 40 bar



Bauform V: 40 to 400 mbar



model V: 0,6 to 40 bar

