Stübbe®

Diaphragm pressure gauge guard MDM 901

High quality material	• uPVC, PP and PVDF with high impact strength and increased creep strength • Diaphragm coated with PTFE • Stainless steel screws
High measuring accuracy	• Elastostatic form diaphragm • Large effective diaphragm surface
Environmentally sound	• Hermetically sealed, diaphragm with crimped seal ring • Neutral gauge liquid
Operation reliability	• Pressure stage PN 10 • Simple installation for optional fitting positions • Stringent ASV quality assurance

The diaphragm pressure gauge guard is used for safe pressure transmission to corresponding measuring instruments and is employed in processing plants handling neutral and aggressive liquids. The large surface area of the diaphragm and neutral transmission liquid separates and protects pressure gauges from detrimental corrosive influences.

• The MDM 901 pressure gauge guard is a basic unit for use with standard pressure gauges:
  Measuring system copper alloy.
• Pressure gauges in chemical resistant execution, measuring system CrNi steel (W. No. 1.4571).
• Chemical resistant execution with liquid damping, measuring system as above. Other measuring systems (capsule or plate springs) measuring ranges etc. available upon request.

Materials:
Housing:
• uPVC (polyvinyl chloride)
• PP (polypropylene)
• PVDF (polyvinylidene fluoride)

Diaphragm: EPDM, PTFE coated on media side
Colour:
• uPVC   RAL 7011
• PP   RAL 7032
• PVDF   opaque

Gauge liquid, for example glysantin. Other materials available on request.
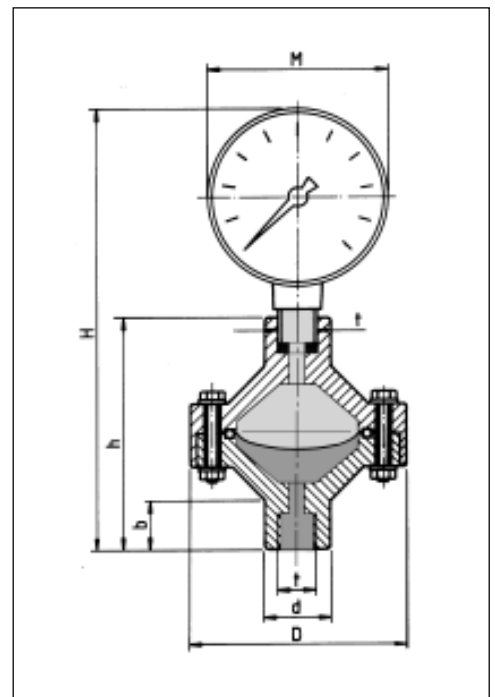
Technical data:

Pressure stage: PN 10 at 20 °C

Operating temperature approx.:

• uPVC: + 60 °C
• PP: + 80 °C
• PVDF :   + 120 °C

Connections:

• Female thread G 1/4" and G 1/2"
• Optional: NPT-thread
• Dimension d as spigot ends for solvent welding (PVC) as per DIN 8063, part 8, or spigot ends for butt and fusion welding (PP, PVDF) as per DIN 16962/3.

MDM 901

Pressure gauge execution

	Standard	Chemical
Housing:	steel	chrome nickel steel
Glass:	acrylic	tempered safety glass
Accuracy class:	1,6	1,6 from MØ 100 = 1,0
Diameter MØ (mm):	63 / 80 / 100 / 160	63 / 100 / 160
Measuring range (bar):	0 - 2,5 / 0 - 4 / 0 - 6 / 0 - 10	

Dimension / weight

t Inch	Dimensions (mm)						Type 901 - Weight (g)		
	d	MØ	D	H	h	b	uPVC	PP	PVDF
G 1/4	25	40 50 63	81	137 149 171	87	18	250	180	310
G 1/2	32	80 100 160	81	185 205 265	87	22	460	320	590

M = Pressure gauge diameter, not available for all executions or pressure ranges.
See ident-No. on the rear.

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Ident No.

t Inch	uPVC	PP	PVDF
G 1/4	45286	45287	45288
G 1/2	45289	45290	45291

Accessories:
For process automation we offer:
- Contact pressure gauge, for min. and/ or max. pressure-limit control or for continuous measuring value remote control.

We recommend:
The installation of a ASV ball valve as pressure gauge protection, e.g. "Compact 10", between pressure gauge and installation.

Fitting instructions:
The diaphragm pressure gauge guard MDM 901 is, on request, supplied complete with pressure gauge i.e. filled with gauge liquid.

In case of self-installation:
See mounting instruction MDM 901, print-No. 330 071.

Ident-No.:

Pressure gauge **- standard execution -** for MDM 901

Pressure gauge housing:			Pressure range in bar			
d	t (Inch)	M ⌀	0 - 2,5	0 - 4	0 - 6	0 - 10
25	G 1/4	63	42458	42459	42460	42461
32	G 1/2	80	42463	42510	42511	42512
32	G 1/2	100	42514	42515	42516	42517
32	G 1/2	160	-	-	42519	42520

Pressure gauge **- chemical execution -** for MDM 901

Pressure gauge housing:			Pressure range in bar			
d	t (Inch)	M ⌀	0 - 2,5	0 - 4	0 - 6	0 - 10
25	G 1/4	63	43045	43049	43053	43057
32	G 1/2	100	43046	43050	43054	43058
32	G 1/2	160	43047	43051	43055	43059

Pressure gauge **- chemical execution liquid damped -** for MDM 901

Pressure gauge housing:			Pressure range in bar			
d	t (Inch)	M ⌀	0 - 2,5	0 - 4	0 - 6	0 - 10
25	G 1/4	63	43060	42521	43063	43065
32	G 1/2	100	43061	43062	43064	43066

Technical alterations excepted

ASV Stübbe GmbH & Co.

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