



Diaphragm Pressure Gauge Guard MDM 902

corrosion resistant pressure transmission
of aggressive media

Application

- chemical plants
- galvanotechnics

Utilisation

- for corrosion resistant pressure transmission between medium and measuring instrument

Type of fluids

- Neutral, aggressive liquids or gaseous media without abrasive particles provided that the components getting in contact with the medium are resistant at operating temperature according to the ASV resistance guide.

Examinations

- Requirements and examinations acc. to DIN 3441, 3442, 8063.

Nominal pressure (H₂O, 20 °C)

- PN 10

Media temperature

- see pressure/temperature diagram

Operating pressure

- see pressure/temperature diagram

Size

- d 25, G 1/4"
- d 32, G 1/2"

Bonnet

- PP, glas fiber reinforced

Bottom

- PVC-U, PP, PVDF

Diaphragm

- EPDM, PTFE-coated on medium side

Pressure transmission

- via a large diaphragm and the transmitter fluid the system pressure is transferred to the measuring instrument

Transmitter fluid

- Glysantine

Connection

- spigot ends for solvent welding d 25 or d 32, DIN/ISO (PVC-U), with female thread G 1/4" or G 1/2"
- spigot ends for fusion welding d 25 or d 32, DIN/ISO (PP, PVDF) with female thread G 1/4" or G 1/2"
- NPT-thread G 1/4" or G 1/2", spigots not acc. to DIN/ISO

Mounting

- variable, measuring instrument preferably in upright position

Connection measuring instrument

- bonnet with female thread G 1/4" or G 1/2"

Measuring instrument

- pressure gauge in standard version measuring system: copper alloy
- pressure gauge in chemical version measuring system: chrome nickel steel (1.4571)
- pressure gauge in chemical version, fluid-damped measuring system: chrome nickel steel (1.4571)
- pressure transducer

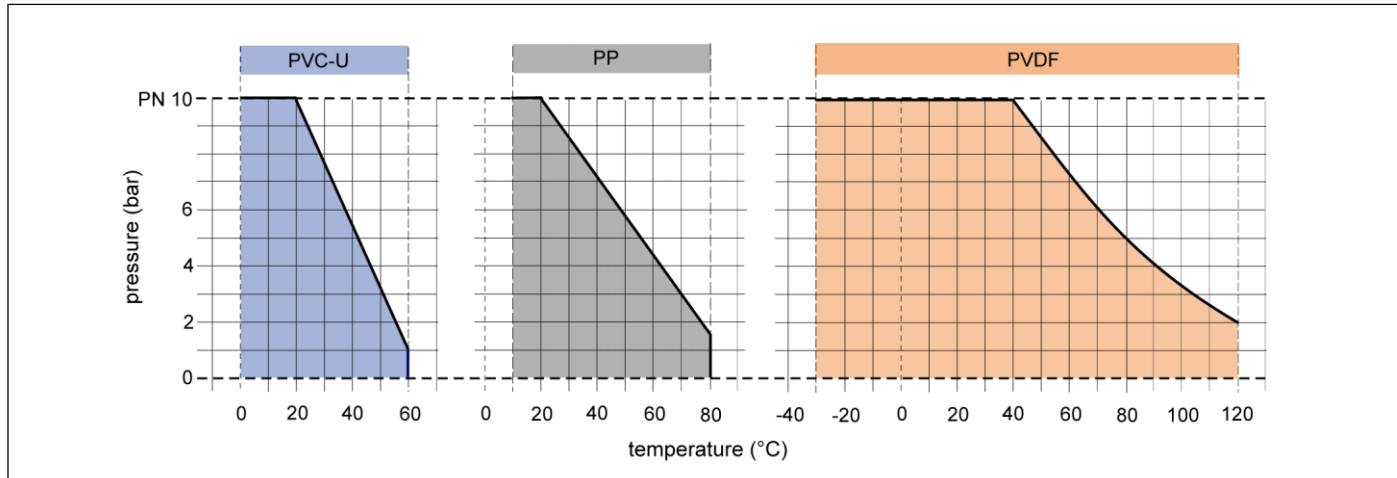
Note

- MDM 902 with pressure gauge installation on request

Colour

- bonnet
 - PP: orange, RAL 2004
- bottom
 - PVC-U: grey, RAL 7011
 - PP: grey, RAL 7032
 - PVDF: opaque, yellowish-white

Pressure/temperature diagram



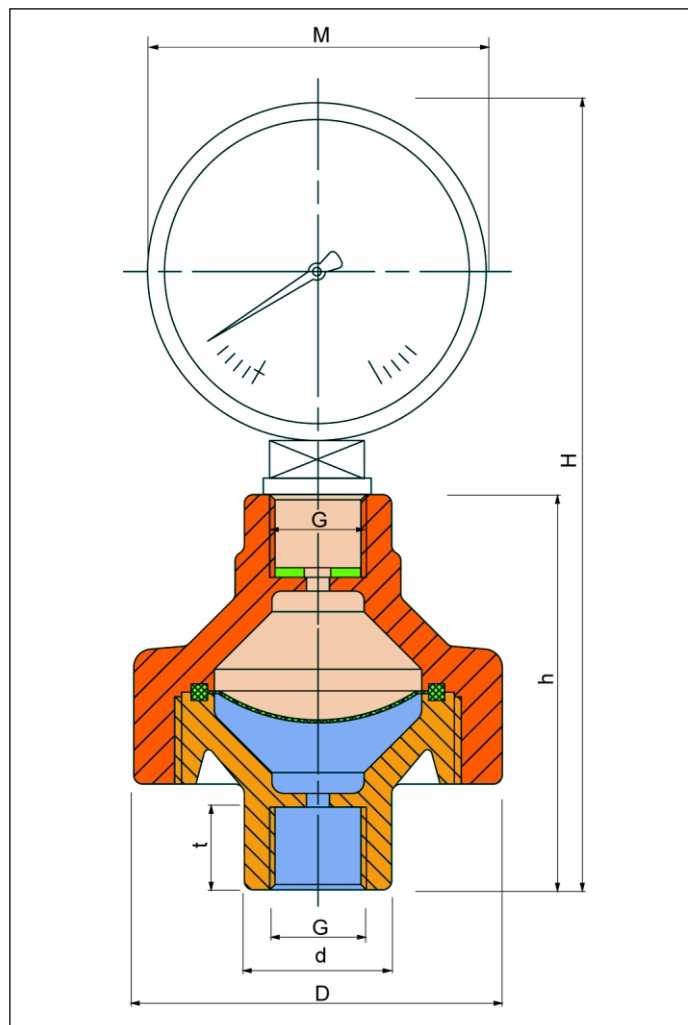
The pressure/temperature limits are applicable for a computed operating life factor of 25 years at PN 10.
The values are a guide for harmless media (DIN 2403) the material of the valve is resistant against.
For other media see the ASV resistance guide.

Durability of wear and tear parts is depending on the operating conditions of the application.
Values below 0 °C (PP < +10 °C) on request with exact data of operation.

Pressure gauge version

version:	standard	chemical
housing:	steel	chrome nickel steel
inspection glass:	acrylic glass	safety glass
accuracy class:	1,6	1,6, from ø100 = 1,0
diameter mm:	63/80/100/160	63/100/160
measuring ranges:	0 - 2,5 / 0 - 4 / 0 - 6 / 0 - 10 bar	

Dimension MDM 902 with pressure gauge



Diaphragm Pressure Gauge Guard MDM 902

dimensions	d (mm)	25	25	25	32	32	32
	DN (mm)	20	20	20	25	25	25
	G (inch)	1/4	1/4	1/4	1/2	1/2	1/2
	PN (bar)	10	10	10	10	10	10
	øM	40	50	63	80	100	160
	D	80,0	80,0	80,0	80,0	80,0	80,0
	H	137,0	149,0	171,0	185,0	205,0	265,0
	h ±1,5	86,0	86,0	86,0	86,0	86,0	86,0
	t	18,0	18,0	18,0	22,0	22,0	22,0
weight (g)*							
	PVC-U	250	250	250	460	460	460
	PP	180	180	180	320	320	320
	PVDF	310	310	310	590	590	590

*weight without pressure gauge

Ident number MDM 902

	d (mm)	25	32
	G	1/4"	1/2"
MDM 902 DIN/ISO	sealing		
PVC-U	EPDM-PTFE	135533	135536
PP	EPDM-PTFE	135534	135537
PVDF	EPDM-PTFE	135535	135538
MDM 902 NPT-thread	sealing	1/4"	1/2"
PVC-U	EPDM-PTFE	135539	135542
PP	EPDM-PTFE	135540	135543
PVDF	EPDM-PTFE	135541	135544

Ident number: pressure gauge »standard version«

size:	pressure measuring range					
d	G	øM	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

Ident number: pressure gauge »chemical version«

size:	pressure measuring range					
d	G	øM	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

Ident number: pressure gauge »chemical version - fluid-damped«

size:	pressure measuring range					
d	G	øM	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

Attention Operating instructions

Safe operation of the valve can only be ensured if it is properly installed, operated, serviced or repaired by qualified personnel according to its intended use while observing the accident prevention regulations, safety regulations, relevant standards and technical regulations or data sheets like DIN, DIN EN, DIN ISO and DVS* for example.

The intended use includes adhering to the specified limit values for pressure and temperature as well as the check of the chemical resistance.

For this purpose, ensure that all components getting in contact with the media are "**resistant**" in accordance with the ASV resistance guide.

The owner/user must inform the authorized qualified personnel instructed to perform the assembly, inspection and/or maintenance work of any potential danger emanating from the machine line/medium, and ensure that suitable safety measures are observed. This includes also the consideration of local regulations and laws of the territories of use.

If the authorized qualified personnel does not have any operating and maintenance instruction this is to be requested prior installation, maintenance or repair.

Non-observance of the specified information and safety instructions may lead to injuries and/or property damages.

*DVS = German Association for Welding Technology