





Diaphragm Pressure Gauge Guard MDM 902

corrosion resistant pressure transmission of aggressive media

Application

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D-32602 Vlotho • Fon +49

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Straße

Hollwieser

Co.

GmbH

Stübbe

- 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

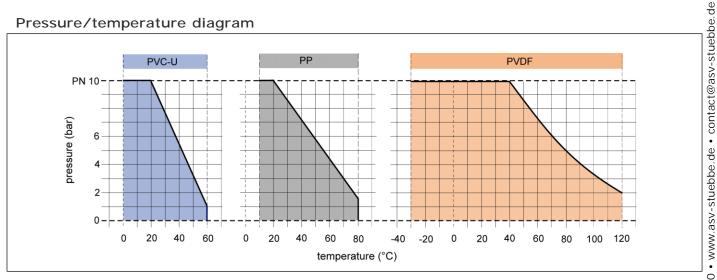
• bottom

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.

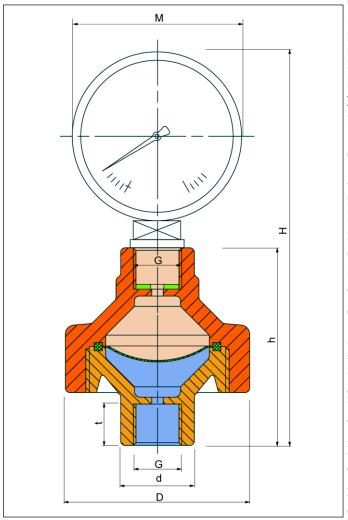
Durability of wear and tear parts is depending on the operating conditions of the application.

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



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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	
	Н	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
; Г		G	1/4′′	1/2"
, [MDM 902 DIN/ISO	sealing		
, F	PVC-U	EPDM-PTFE	135533	135536
r F	PP	EPDM-PTFE	135534	135537
- -	PVDF	EPDM-PTFE	135535	135538
3				
- I	MDM 902 NPT-thread	sealing	1/4′′	1/2"
F	PVC-U	EPDM-PFTE	135539	135542
F	PP	EPDM-PTFE	135540	135543
: F	PVDF	EPDM-PTFE	135541	135544
3				

Ident number: pressure gauge »standard version«

size:		pres	sure 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«

2	size:		pres	sure measuring	g range				
)	d	G	øΜ	0 - 2,5	0 - 4	0 - 6	0 - 10		
3	25	G 1/4"	63	43045	43049	43053	43057		
ا كِ	32	G 1/2"	100	43046	43050	43054	43058		
	32	G 1/2"	160	43047	43051	43055	43059		
2									

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

	Diar	hragm	Pres	sure_	Gaud	е Сиа	$\operatorname{ard} M$	DM_90	າ2
	Біар	magni	1103	Juic	Gaag	o Out	ar a ivi		<i></i>
dimensions	d (mm	`	25	25	25	32	32	32	
annensions	DN (mr		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	
	Н		137,0	149,0	171,0	185,0	205,0	265,0	
	h ±1,5		86,0 18,0	86,0 18,0	86,0 18,0	86,0 22,0	86,0 22,0	86,0 22,0	
	ι		10,0	10,0	10,0	22,0	22,0	22,0	
weight (g)*									
	PVC-U PP		250 180	250 180	250 180	460 320	460 320	460 320	
	PVDF		310	310	310	590	590	590	
*weight without	pressure g	auge							
Ident numb	er MDM	902							
. Joint Hairib	J. 141DIVI	d (mm)	25	32					
		G (IIIII)	1/4′′	1/2′′					
MDM 902 DIN/	/ISO	sealing							
PVC-U PP		EPDM-PTFE	135533	135536					
PVDF		EPDM-PTFE EPDM-PTFE	135534 135535	135537 135538					
MDM 902 NPT-	thread	sealing	1/4′′	1/2′′					
		EPDM-PFTE	135539	135542					
PP									
PP		EPDM-PFTE EPDM-PTFE	135539 135540	135542 135543					
PP PVDF Ident numb	-	EPDM-PFTE EPDM-PTFE EPDM-PTFE	135539 135540 135541	135542 135543 135544	rsion«				
PP PVDF I dent numb size: d G	pres øM	EPDM-PFTE EPDM-PTFE EPDM-PTFE Sure gauge sure measuri 0 - 2,5	135539 135540 135541 • »standing range 0 -	135542 135543 135544 dard ve	0 - 6	0 - 10			
PP PVDF I dent numb size: d G 25 G 1/4"	pres øM 63	EPDM-PFTE EPDM-PTFE EPDM-PTFE Sure gauge sure measuri 0 - 2,5 42458	135539 135540 135541 • »standing range 0 - 424	135542 135543 135544 dard ve	0 - 6 42460	42461			
PP PVDF I dent numb size: d G 25 G 1/4" 32 G 1/2"	pres øM 63 80	EPDM-PFTE EPDM-PTFE EPDM-PTFE Sure gauge sure measuri 0 - 2,5 42458 42463	135539 135540 135541 • ***stance org range 0 - 424 425	135542 135543 135544 dard ve	0 - 6 42460 42511	42461 42512			
PP PVDF I dent numb size: d	pres øM 63	EPDM-PFTE EPDM-PTFE EPDM-PTFE Sure gauge sure measuri 0 - 2,5 42458	135539 135540 135541 • »standing range 0 - 424	135542 135543 135544 dard vei	0 - 6 42460	42461			
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PP PVDF I dent numb size: d G 25 G 1/4" 32 G 1/2" 32 G 1/2" 32 G 1/2"	pres ØM 63 80 100 160	EPDM-PFTE EPDM-PTFE EPDM-PTFE Sure gauge sure measuri 0 - 2,5 42458 42463 42514	135539 135540 135541 • ***stance ng range 0 - 424 425 425	135542 135543 135544 dard ve	0 - 6 42460 42511 42516 42519	42461 42512 42517			
I dent numb size: d	pres øM 63 80 100 160 eer: press	EPDM-PFTE EPDM-PTFE EPDM-PTFE Sure gauge sure measuri 0 - 2,5 42458 42463 42514 - sure gauge sure gauge	135539 135540 135541 * »stance orgrange 0 - 424 425 425 * »cheming range	135542 135543 135544 dard ver	0 - 6 42460 42511 42516 42519 rsion«	42461 42512 42517 42520			
Ident numb size: d G 25 G 1/4" 32 G 1/2" 32 G 1/2" 32 G 1/2" Ident numb size: d G	presøM 63 80 100 160 eer: presøM	EPDM-PFTE EPDM-PTFE EPDM-PTFE EPDM-PTFE Sure gauge sure measuri 0 - 2,5 42458 42463 42514 Sure gauge sure measuri 0 - 2,5	135539 135540 135541 * ***stance** o - 424 425 425 425 * ***chem**	135542 135543 135544 dard ver	0 - 6 42460 42511 42516 42519 rsion«	42461 42512 42517 42520 0 - 10			
Ident numb size: d G 25 G 1/4" 32 G 1/2" 32 G 1/2" 32 G 1/2" Ident numb size: d G 25 G 1/4"	pres øM 63 80 100 160 eer: press pres øM 63	EPDM-PFTE EPDM-PTFE EPDM-PTFE EPDM-PTFE Sure gauge sure measuri 0 - 2,5 42458 42463 42514 Sure gauge sure measur 0 - 2,5 43045	135539 135540 135541 * ***stance** o - 424 425 425 * ***chements** ing range** 0 - 430	135542 135543 135544 dard ver	0 - 6 42460 42511 42516 42519 rsion« 0 - 6 43053	42461 42512 42517 42520 0 - 10 43057			
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PP PVDF I dent numb size: d	pres øM 63 80 100 160 eer: pres øM 63 100	EPDM-PFTE EPDM-PTFE EPDM-PTFE EPDM-PTFE Sure gauge sure measuri 0 - 2,5 42458 42463 42514 Sure gauge ssure measur 0 - 2,5 43045 43046	135539 135540 135541 * ***stance** o - 424 425 425 425 * ***chem** ing range** 0 - 430 430 430	135542 135543 135544 dard ver	0 - 6 42460 42511 42516 42519 rsion« 0 - 6 43053 43054	42461 42512 42517 42520 0 - 10 43057 43058			
Ident numb size: d G 25 G 1/4" 32 G 1/2" 32 G 1/2" Ident numb size: d G 25 G 1/4" 32 G 1/2" I dent numb size: d G 25 G 1/4" 32 G 1/2"	pres øM 63 80 100 160 eer: pres øM 63 100 160	sure gauge sure measuri 0 - 2,5 42458 42463 42514 - sure gauge sure measuri 0 - 2,5 42458 42463 42514 -	135539 135540 135541 e »stance o - 424 425 425 425 e »chemeling range 0 - 430 430 430	135542 135543 135544 dard ver	0 - 6 42460 42511 42516 42519 rsion« 0 - 6 43053 43054 43055	42461 42512 42517 42520 0 - 10 43057 43058 43059			
Ident numb size: d G 25 G 1/4" 32 G 1/2" 32 G 1/2" 32 G 1/2" Ident numb size: d G 25 G 1/4" 32 G 1/2" Ident numb	pres øM 63 80 100 160 eer: press pre øM 63 100 160 eer: press	sure gauge sure measuri 0 - 2,5 42458 42463 42514 sure gauge sure measur 0 - 2,5 43045 43047	135539 135540 135541 e »standing range 0 - 424 425 425 e »cheming range 0 - 430 430 430 430	135542 135543 135544 dard vel 4 59 10 115 	0 - 6 42460 42511 42516 42519 rsion« 0 - 6 43053 43054 43055	42461 42512 42517 42520 0 - 10 43057 43058 43059	ıped«		
Ident numb Size: d	pres	sure gauge sure measuri 0 - 2,5 42458 42463 42514 sure gauge ssure measur 0 - 2,5 43045 43047 sure gauge ssure measur	135539 135540 135541 e »stand ng range 0 - 424 425 425 e »cheming range 0 - 430 430 430 430 e »cheming range	135542 135543 135544 dard vel 4 59 10 115 	0 - 6 42460 42511 42516 42519 rsion« 0 - 6 43053 43054 43055	42461 42512 42517 42520 0 - 10 43057 43058 43059	ıped«		
Ident numb Size: d	pres øM 63 80 100 160 eer: pres øM 63 100 160 eer: pres øM	sure gauge sure measuri 0 - 2,5 42458 42463 42514 sure gauge sure measur 0 - 2,5 43045 43046 43047 sure gauge ssure measur 0 - 2,5	135539 135540 135541 e »stand ng range 0 - 424 425 425 e »chem ing range 0 - 430 430 430 430 e »chem ing range	135542 135543 135544 dard vel 4 59 10 115 	0 - 6 42460 42511 42516 42519 rsion« 0 - 6 43053 43054 43055	42461 42512 42517 42520 0 - 10 43057 43058 43059 uid-dam	ıped«		
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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