



MODELLO MTIP100SPVC MODEL MTIP100SPVC

CODICE

CODE

MTIP100SPVCG1/2

0/10

B

1

2

3



1 CONNESSIONE AL PROCESSO PROCESS CONNECTION

	Codice/Code
1/2" gas cilindrico	G1/2
1/2" gas conico	R1/2
1/2" NPT	N1/2
Altro/Another	*

3 UNITÀ DI MISURA UNIT

	Codice/Code
Bar	B
Bar/Psi	B/P
Psi	P
Kpa	K
Mpa	M
Kg/cm ²	KG/CM ²
Altro / Another	*

2 SCALA

<i>RANGE</i>	Codice Code	<i>RANGE</i>	Codice Code
-1... 0	-1/0	0... 12	0/12
-1... 0.6	-1/0.6	0... 16	0/16
-1... 1.5	-1/1.5	0... 20	0/20
-1... 3	-1/3	0... 25	0/25
-1... 5	-1/5	0... 40	0/40
-1... 9	-1/9	0... 60	0/60
-1... 15	-1/15	0... 100	0/100
-1... 24	-1/24	0... 160	0/160
0... 0.6	0/0.6	0... 200	0/200
0... 1	0/1	0... 250	0/250
0... 1.6	0/1.6	0... 315	0/315
0... 2.5	0/2.5	0... 400	0/400
0... 4	0/4	0... 600	0/600
0... 6	0/6	0... 1000	0/1000
0... 10	0/10	Altro / Another	

Manometro a molla bourdon con separatore a membrana in PVC

Diametro cassa: 100 mm

Esecuzione: Posteriore Eccentrico

Normativa: EN 837-1

Classe di precisione: 1%

Attacco al processo: Acciaio Inox 316L

Elemento di misura: Acciaio Inox 316L

Movimento: Acciaio Inox 316L

Quadrante: In alluminio a fondo bianco, numerazione in nero con fermo sullo zero

Indice: in alluminio di colore nero

Trasparente: Vetro multistrato di sicurezza

Materiale della cassa e anello: Acciaio Inox

Foro di scarico posteriore

Bourdon tube pressure gauge with diaphragm

Nominal Size: 100 mm

Eccentric Back

Design: EN 837-1

Accuracy Class: 1%

Process connection: Stainless Steel 316L

Pressure element: Stainless Steel 316L

Moviment: Stainless Steel 316L

Dial: White aluminium with black marks

Black anodized aluminium

Window: Safety Glass

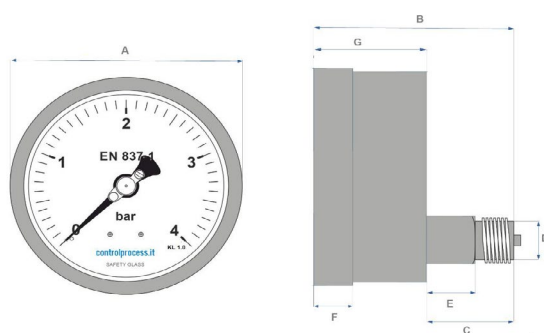
Case and Ring: Stainless Steel

With blow-out device at case circumference and on the back of the case



MODELLO MTIP100SPVC

MODEL MTIP100SPVC



+/- 0.1	A	B	C	D	E	F	G
DN40	47.2	50.4	22	9.55	12	5.1	27.1
DN50	57.6	60	29	12.95	16	6.3	29.5
DN63	68	60	29	12.95	16	6.3	29.5
DN100	100.8	83.5	35.5	20.8	16	17	48.7
DN160	160	158	44	20.8	22	17	49.8

CONDIZIONI DI ESERCIZIO	OPERATING CONDITIONS
Temperatura ambiente: -30 ... +60°C	Ambient Temperature: -30 ... +60°C
Temperatura fluido di processo: -30 ... +120°C	Process fluid temperature: -30 ... +120°C
Deriva termica: massimo $\pm 0.3\%$ dell'ampiezza di campo ogni 10°C di differenza dalla temperatura di riferimento di 20°C	Thermal drift: maximum $\pm 0.3\%$ of span every 10°C of deviation from the reference temperature of 20°C
Pressione d'esercizio costante: 75% del fondo scala	Operating pressure constant: 75% del F.S.V.
Pressione d'esercizio variabile: 60% del fondo scala	Operating pressure changeable: 60% F.S.V.
Sovrapressione fino a 60 bar: 25% del fondo scala	Overpressure up to 60 bar: 25% F.S.V.
Sovrapressione > 100 bar: 15% del fondo scala	Overpressure from > 100 bar: 15% F.S.V.
Grado di protezione IP65 conforme EN 60529 / IEC 60529	Protection EN 60529 / IEC 60529 IP65

OPZIONI

- Materiale Cassa e Anello in AISI 316L
- Staffa ad "U" in Acciaio Inox
- Flangia a 3 fori in Acciaio Inox

OPTION

- Case and Ring material AISI 316 L
- U – Clamp Stainless Steel
- Front Flange 3 hole Stainless Steel

CERTIFICAZIONI

CERTIFICATE

- **Certificato di taratura conforme a ISO/IEC 17025 3.1b**
Calibration report ISO / IEC 17025 3.1b
- **Certificato taratura organismo accreditato nazionale**
National Accredited Calibration Certificate
- **Certificato origine camera commercio**
Certificate of origin Chamber of Commerce
- **Certificazione di prova 2.2 conforme EN 10204 (produzione stato dell'arte, precisione indicazione)**
Certificate 2.2 EN 10204
- **Certificazione 3.1 conforme ad EN 10204 (cert. Materiale)**
Certificate 3.1 EN 10204 (material certificate)

Diaphragm pressure gauge guard

MTIP100SPVC

Nominal size DN 20–25
Pressure PN 10 bar



Features

- Pressure measurement up to 10 bar
- EPDM diaphragm with PTFE coating on the side in contact with the medium
- Reliable protection of pressure gauges from aggressive medium types
- Reliable pressure transmission due to generously dimensioned diaphragms
- Practical connection points with spigots and threads

Additional options on demand

- Free of surface disturbing substances
- NSF certification
- PFA permeation stop films
- Installation of different pressure gauges

Attention

Diaphragm pressure gauge guard free of surface disturbing substances is filled with demineralized water

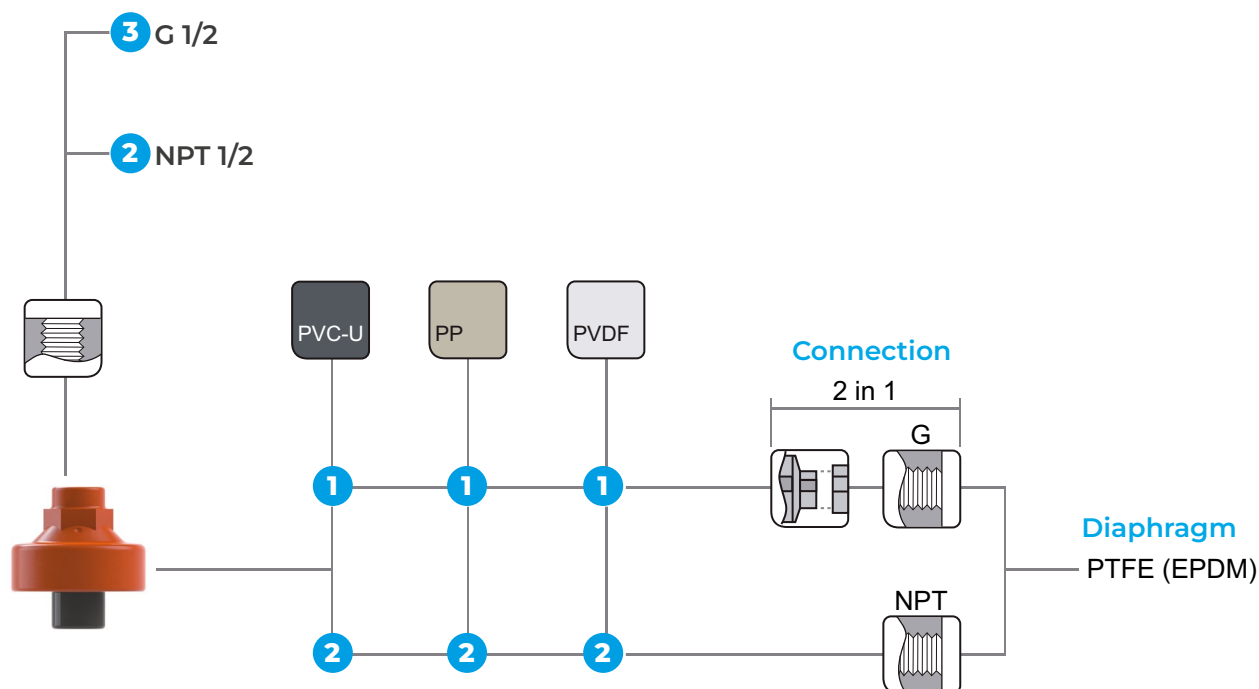


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Pictogram Diaphragm pressure gauge guard MTIP100SPVC



Diffusion stop for medium types prone to permeation:

PFA permeation stop film

Available versions: PVC-U | PVDF

● available
○ not available

Basic Nominal Sizes:

DN 8	DN 10	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300	DN 350	DN 400
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Connection Material (process connection)

spigot **DIN*** + female thread **G**
female thread (reinforced) **NPT**
female thread **G**

*socket welding

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Diaphragm pressure gauge guard MTIP100SPVC

Use

- Chemical plant engineering
- Electroplating plants

Application

- for corrosion-free pressure transmission between the medium and the measuring instrument

Pressure transmission

- The system pressure is transmitted to the measuring instrument by a large diaphragm via transmitter fluid

Flow medium

- Neutral and aggressive fluids free of solid particles, provided that the valve components coming into contact with the fluids are resistant at the operating temperature according to the ASV resistance guide

ASV-Stübbe resistance guide

- www.asv-stuebbe.de/pdf_resistance/300051.pdf

Nominal pressure (H₂O, 20 °C)

- PN 10 bar

Medium temperature

- See graphics „Pressure/temperature diagram“

Operating pressure

- See graphics „Pressure/temperature diagram“

Size

- DN 20–25

Bonnet

- PP, glass fiber reinforced

Bottom section

- PVC-U, PP, PVDF

Sealing element

- PTFE, PFA

Diaphragm

- PTFE (EPDM diaphragm with PTFE coating on the side in contact with the medium)
- Optional: PFA permeation stop film

Transmitter fluid

- Glycol (ethylene glycol)
- Antifreeze (e.g. glysantine or Aral Antifreeze)
- Demineralized water: When used for potable water or for free of surface disturbing substances

Device connection

- See pictogram

Pressure gauge connection

- Bonnet, internal thread G 1/4", G 1/2", NPT 1/4", NPT 1/2"
- Rear connection G1/4" – only for standard pressure gauge design

Mounting position

- As required, preferably measuring instrument at the top

Color

Bonnet:

- orange, RAL 2004

Bottom section:

- PVC-U: gray, RAL 7011
- PP: gray, RAL 7032
- PVDF: opaque, yellowish-white

Accessories

Pressure gauge, standard version:

- Housing: POM
- Measuring system: Copper alloy

Pressure gauge chemical version (undamped, damped):

- Housing: CrNi steel (1,4571)
- Measuring system: CrNi steel (1,4571)

Pressure transducer

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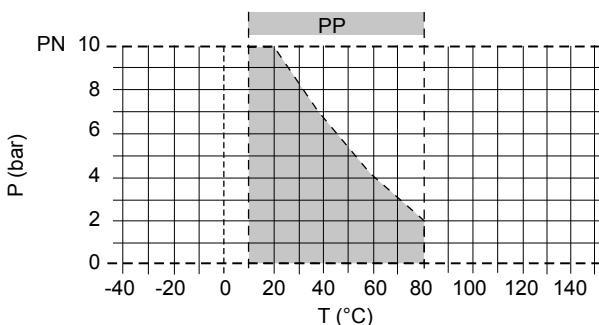
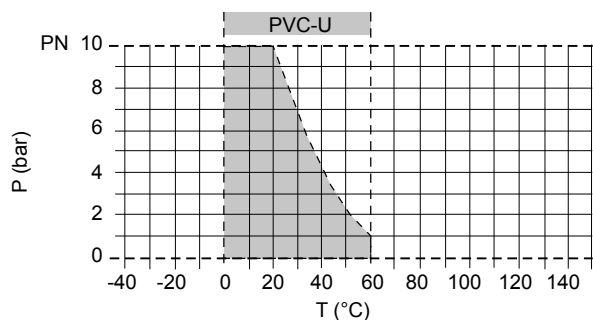
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Diaphragm pressure gauge guard MTIP100SPVC

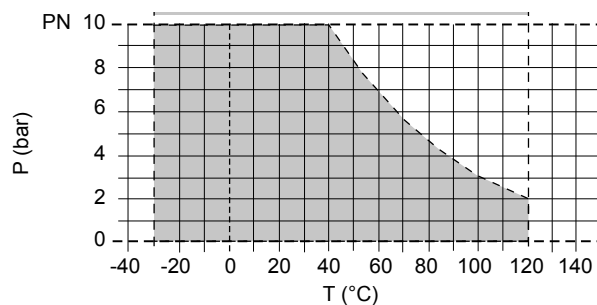
Pressure/temperature diagram



The pressure/temperature limits of the materials are valid for the stated nominal pressures and a service life of 25 years.

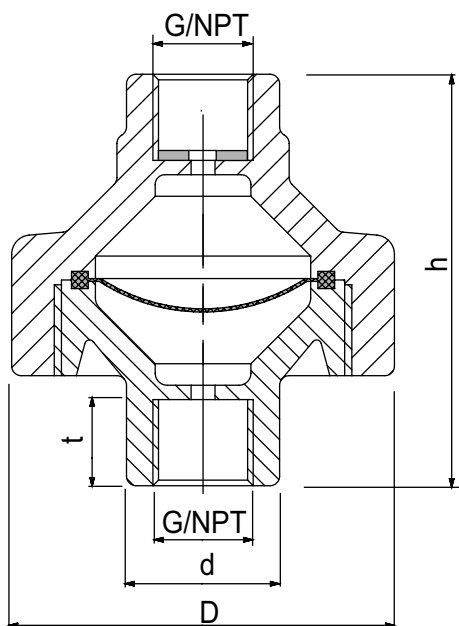
These values are guide values for flow medium types which do not negatively impact the physical and chemical characteristics of the valve material. It may be necessary to take diminution factors into consideration.

The operating life of the wear parts depends on the conditions of use.



Description

P	Operating pressure
T	Temperature



Connection spigot end

d (mm)	25	32
DN (mm)	20	25
G (inch)	1/4	1/2
D	80.0	80.0
d	25.0	32.0
G*	1/4	1/2
h	86.0	86.0
t	18.0	22.0

all dimensions in mm / * dimensions in inch

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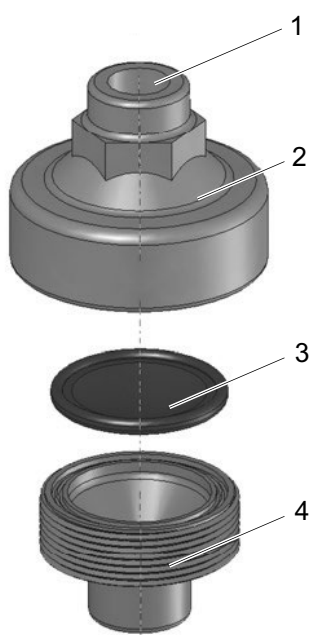
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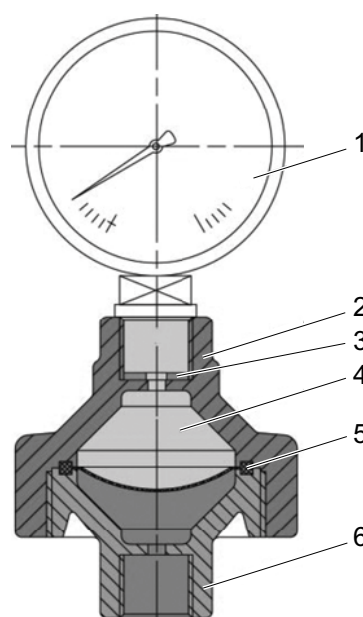
Diaphragm pressure gauge guard MTIP100SPVC

Structure



Position	Designation
1	Connection, pressure gauge
2	Bonnet
3	Separating diaphragm
4	Bottom section

Components



Position	Designation
1	Pressure gauge
2	Bonnet
3	Flat sealing
4	Transmitter fluid
5	Separating diaphragm
6	Bottom section