



Diaphragm pressure gauges for chemical applications Type D4



Benefits

- For low pressure ranges
- High overload protection
- High resistance
- Optional flange connections

Application

For corrosive gaseous and liquid media, also for use in corrosive environments. With open connection flange also suitable for viscous and polluted media. For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2" (see appendix)!

Technical specifications

Type

D4

Nominal size

100 – 160

Accuracy class (EN 837-3/6)

1,6

Ranges (EN 837-3/5)

See ordering table

Application area

Static load: Full scale value

Dynamic load: 0.9 x full scale value

Overpressure safety

≤ 6 bar: At least 5 x FS

≥ 10 bar: Max. 40 bar

Operating temperature range

Medium: Max. 100 °C

Ambient: -20/+60 °C

Temperature performance

Indication error when the temperature of the measuring system deviates from the normal temperature of 20 °C:

at rising temperature approx. ± 0.8 %/10 K

falling temperature approx. ± 0.8 %/10 K

of full scale value

Degree of protection

IP 54 (EN 60529)



Standard version

Connection

Stainless steel 316 Ti/316 L, bottom
G½B, SW22 (EN 837-3/7.3)

Lower measuring flange

Stainless steel 316 L

Upper measuring flange

Stainless steel 304

Measuring element

Diaphragm
Measuring flange: Duratherm

Seal

FPM (Viton)

Movement

Stainless steel

Dial

Aluminium, white
Scaling black

Pointer

Aluminium, black

Housing

Stainless steel 304, with blow-out

Bayonet type bezel

Stainless steel 304

Window

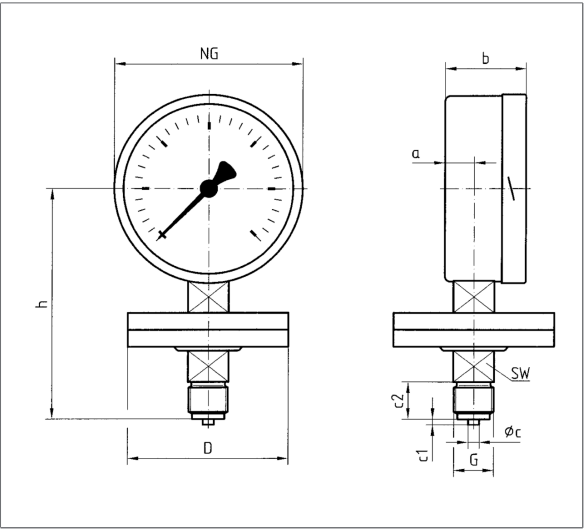
Laminated safety glass

Options

- Safety housing
- Overpressure safety 10 x FSD (measuring flange ø 100 to max. 40 bar, measuring flange ø 160 to max. 2.5 bar)
- Glycerine filling (≥ 40 mbar, ≤ 250 mbar accuracy class 2.5)
- Electrical contacts
- Wetted parts with special coating
- Open connection flanges as per EN/ASME

Technical drawings

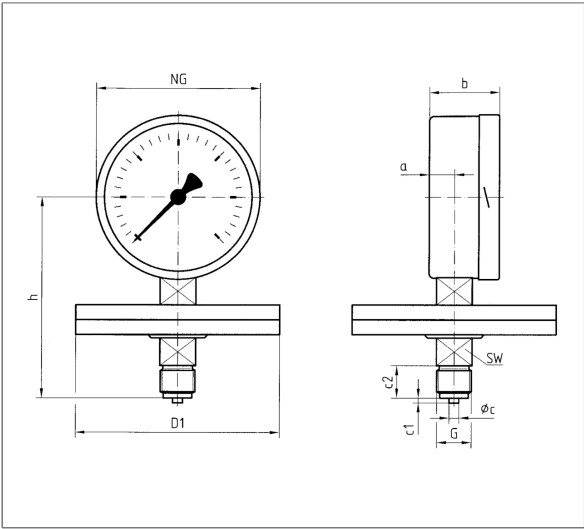
bottom connection, measuring flange ø 100



Dimensions (mm)

NG	a	b	Øc	c1	c2	D	G	h	SW
100	20	55	6	3	20	100	G½B	127	22

bottom connection, measuring flange ø 160

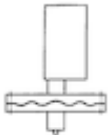


Dimensions (mm)

NG	a	b	Øc	c1	c2	D1	G	h	SW
160	20	55	6	3	20	160	G½B	156	22

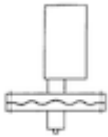
Versions

PF100Ch D402

	Housing ∅	Housing	Accuracy class	Range	Type	Part no.
	100 mm	Stainless steel 304	1,6	0/0.4 bar	PF100Ch D402	85909402
	100 mm	Stainless steel 304	1,6	0/0.6 bar	PF100Ch D402	85910402
	100 mm	Stainless steel 304	1,6	0/1 bar	PF100Ch D402	85911402
	100 mm	Stainless steel 304	1,6	0/1.6 bar	PF100Ch D402	85912402
	100 mm	Stainless steel 304	1,6	0/2.5 bar	PF100Ch D402	85913402
	100 mm	Stainless steel 304	1,6	0/4 bar	PF100Ch D402	85914402
	100 mm	Stainless steel 304	1,6	0/6 bar	PF100Ch D402	85915402
	100 mm	Stainless steel 304	1,6	0/10 bar	PF100Ch D402	85916402
	100 mm	Stainless steel 304	1,6	0/16 bar	PF100Ch D402	85917402
	100 mm	Stainless steel 304	1,6	0/25 bar	PF100Ch D402	85918402
	100 mm	Stainless steel 304	1,6	0/10 mbar	PF100Ch D402	85901402
	100 mm	Stainless steel 304	1,6	0/16 mbar	PF100Ch D402	85902402
	100 mm	Stainless steel 304	1,6	0/25 mbar	PF100Ch D402	85903402
	100 mm	Stainless steel 304	1,6	0/40 mbar	PF100Ch D402	85904402
	100 mm	Stainless steel 304	1,6	0/60 mbar	PF100Ch D402	85905402
	100 mm	Stainless steel 304	1,6	0/100 mbar	PF100Ch D402	85906402
	100 mm	Stainless steel 304	1,6	0/160 mbar	PF100Ch D402	85907402
	100 mm	Stainless steel 304	1,6	0/250 mbar	PF100Ch D402	85908402

Blue part no. = in-stock items

PF160Ch D402

	Housing ∅	Housing	Accuracy class	Range	Type	Part no.
	160 mm	Stainless steel 304	1,6	0/0.4 bar	PF160Ch D402	85959402
	160 mm	Stainless steel 304	1,6	0/0.6 bar	PF160Ch D402	85960402
	160 mm	Stainless steel 304	1,6	0/1 bar	PF160Ch D402	85961402
	160 mm	Stainless steel 304	1,6	0/1.6 bar	PF160Ch D402	85962402
	160 mm	Stainless steel 304	1,6	0/2.5 bar	PF160Ch D402	85963402

Blue part no. = in-stock items



Housing [⊗]	Housing	Accuracy class	Range	Type	Part no.
160 mm	Stainless steel 304	1,6	0/4 bar	PF160Ch D402	85964402
160 mm	Stainless steel 304	1,6	0/6 bar	PF160Ch D402	85965402
160 mm	Stainless steel 304	1,6	0/10 bar	PF160Ch D402	85966402
160 mm	Stainless steel 304	1,6	0/16 bar	PF160Ch D402	85967402
160 mm	Stainless steel 304	1,6	0/25 bar	PF160Ch D402	85968402
160 mm	Stainless steel 304	1,6	0/10 mbar	PF160Ch D402	85951402
160 mm	Stainless steel 304	1,6	0/16 mbar	PF160Ch D402	85952402
160 mm	Stainless steel 304	1,6	0/25 mbar	PF160Ch D402	85953402
160 mm	Stainless steel 304	1,6	0/40 mbar	PF160Ch D402	85954402
160 mm	Stainless steel 304	1,6	0/60 mbar	PF160Ch D402	85955402
160 mm	Stainless steel 304	1,6	0/100 mbar	PF160Ch D402	85956402
160 mm	Stainless steel 304	1,6	0/160 mbar	PF160Ch D402	85957402
160 mm	Stainless steel 304	1,6	0/250 mbar	PF160Ch D402	85958402

Blue part no. = in-stock items