



Stainless steel diaphragm pressure gauges Type D4



Benefits

- Robust and compact design
- Various process connections possible
- Flush mounted versions without transmission liquid
- Wetted area without seals due to welding
- GOSSTANDART-certified
- Ex version (optional)

Application

For corrosive gaseous and liquid media, also for use in corrosive environments. With open connection flange also suitable for viscous and polluted media; with hygienic connections specially suitable for pharmaceutical processes. 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

≤ 10 bar: At least 5 x FS

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
Clamp 2", ISO 2852
G $\frac{1}{2}$ B, SW22
Flush mounted connection flange, EN 1092-1
Open connection flange

Lower measuring flange

Stainless steel 316 Ti/316 L

Upper measuring flange

Stainless steel 316 L

Measuring element

Diaphragm

≤ 2.5 bar: Stainless steel 316 Ti/316 L
≥ 4 bar: Duratherm

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

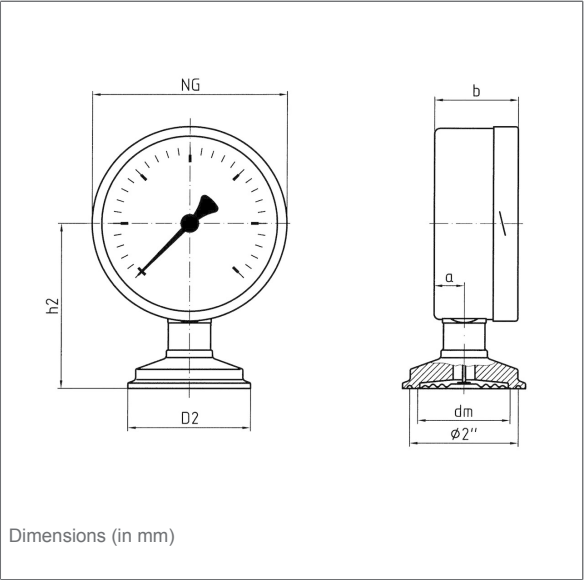
Laminated safety glass

Options

- Glycerine filling (≥ 1 bar)
- Wetted parts with special coating
- Clamp connection
- Varivent or BioControl connection
- Ex version
- Flush mounted connection flanges as per EN
- Open connection flanges as per EN/ANSI
- Electrical contacts (≥ 0/0.6 bar)
- Other connection threads

Technical drawings

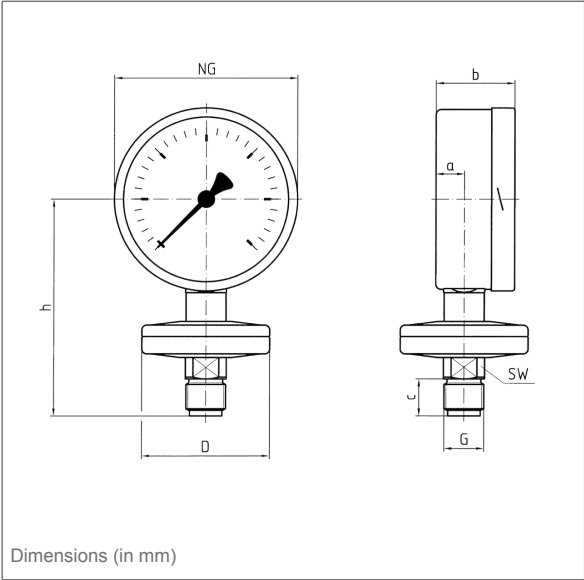
Clamp connection 2" as per ISO 2852, 0/1 bar to 0/6 bar



Dimensions (mm)

NG	a	b	dm	D2	h2
100	15,6	49	48	64	86
160	17,5	50	48	64	117

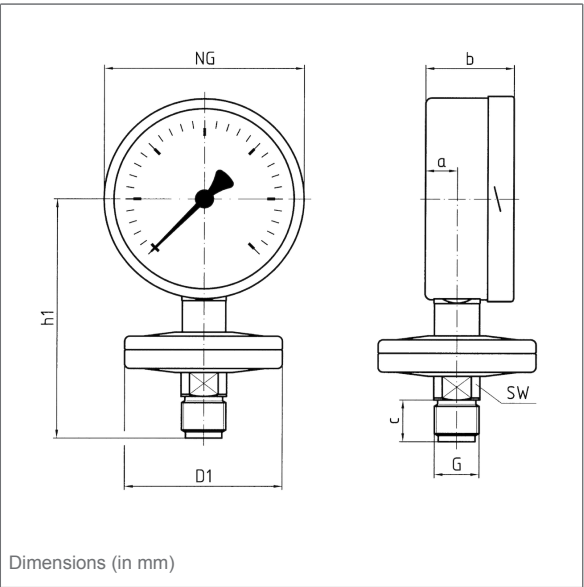
Bottom connection, 0/100 mbar to 0/2.5 bar



Dimensions (mm)

NG	a	b	c	D	G	h	SW
100	15,6	49	20	69	G½B	117	22
160	17,5	50	20	69	G½B	148	22

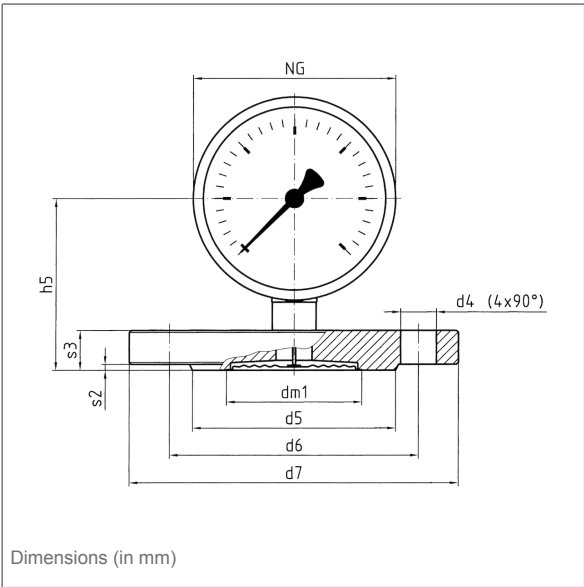
Bottom connection, 0/4 bar to 0/25 bar



Dimensions (mm)

NG	a	b	c	D1	G	h1	SW
100	15,6	49	20	78	G½B	117	22
160	17,5	50	20	78	G½B	148	22

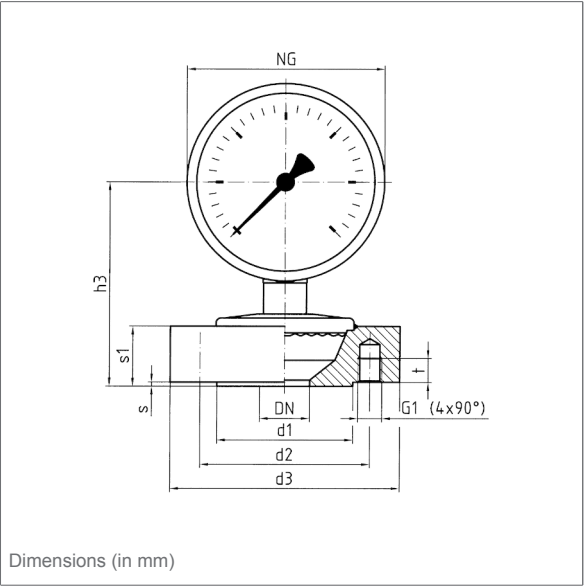
flush mounted connection flange as per EN 1092-1/B 1
DN 50/PN 40, 0/100 mbar to 0/25 bar



Dimensions (mm)

NG	d4	d5	d6	d7	dm1	h5	s2	s3
100	4xØ18	102	125	165	68	86	3	20
160	4xØ18	102	125	165	68	117	3	20

connection flange as per EN 1092-1/B 1/DN 25/PN 40
open, 0/100 mbar to 0/25 bar

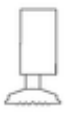


Dimensions (mm)

NG	d1	d2	d3	G1	h3	s	s1
100	68	85	115	4xM12	102	2	30
160	68	85	115	4xM12	133	2	30

Versions

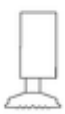
PF100CP D402

	Housing ^ø	Housing	Accuracy class	Range	Type	Part no.
	100 mm	Stainless steel 304	1,6	0/1 bar	PF100CP D402	88980402
	100 mm	Stainless steel 304	1,6	0/1.6 bar	PF100CP D402	88981402
	100 mm	Stainless steel 304	1,6	0/2.5 bar	PF100CP D402	88982402
	100 mm	Stainless steel 304	1,6	0/4 bar	PF100CP D402	88983402
	100 mm	Stainless steel 304	1,6	0/6 bar	PF100CP D402	88984402

Blue part no. = in-stock items



PF160CP D402

	Housing ^ø	Housing	Accuracy class	Range	Type	Part no.
	160 mm	Stainless steel 304	1,6	0/1 bar	PF160CP D402	88990402
	160 mm	Stainless steel 304	1,6	0/1.6 bar	PF160CP D402	88991402
	160 mm	Stainless steel 304	1,6	0/2.5 bar	PF160CP D402	88992402
	160 mm	Stainless steel 304	1,6	0/4 bar	PF160CP D402	88993402
	160 mm	Stainless steel 304	1,6	0/6 bar	PF160CP D402	88994402

Blue part no. = in-stock items

PF100E D402

	Housing ^ø	Housing	Accuracy class	Range	Type	Part no.
	100 mm	Stainless steel 304	1,6	0/0.6 bar	PF100E D402	85890402
	100 mm	Stainless steel 304	1,6	0/1 bar	PF100E D402	85891402
	100 mm	Stainless steel 304	1,6	0/1.6 bar	PF100E D402	85892402
	100 mm	Stainless steel 304	1,6	0/2.5 bar	PF100E D402	85893402
	100 mm	Stainless steel 304	1,6	0/4 bar	PF100E D402	85894402
	100 mm	Stainless steel 304	1,6	0/6 bar	PF100E D402	85895402
	100 mm	Stainless steel 304	1,6	0/10 bar	PF100E D402	85896402
	100 mm	Stainless steel 304	1,6	0/16 bar	PF100E D402	85897402
	100 mm	Stainless steel 304	1,6	0/25 bar	PF100E D402	85898402
	100 mm	Stainless steel 304	1,6	0/100 mbar	PF100E D402	85886402
	100 mm	Stainless steel 304	1,6	0/160 mbar	PF100E D402	85887402
	100 mm	Stainless steel 304	1,6	0/250 mbar	PF100E D402	85888402
	100 mm	Stainless steel 304	1,6	0/400 mbar	PF100E D402	85889402

Blue part no. = in-stock items

PF160E D402

	Housing ^ø	Housing	Accuracy class	Range	Type	Part no.
	160 mm	Stainless steel 304	1,6	0/0.6 bar	PF160E D402	85930402
	160 mm	Stainless steel 304	1,6	0/1 bar	PF160E D402	85931402
	160 mm	Stainless steel 304	1,6	0/1.6 bar	PF160E D402	85932402
	160 mm	Stainless steel 304	1,6	0/2.5 bar	PF160E D402	85933402
	160 mm	Stainless steel 304	1,6	0/4 bar	PF160E D402	85934402

Blue part no. = in-stock items

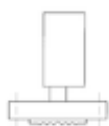


Housing ∅	Housing	Accuracy class	Range	Type	Part no.
160 mm	Stainless steel 304	1,6	0/6 bar	PF160E D402	85935402
160 mm	Stainless steel 304	1,6	0/10 bar	PF160E D402	85936402
160 mm	Stainless steel 304	1,6	0/16 bar	PF160E D402	85937402
160 mm	Stainless steel 304	1,6	0/25 bar	PF160E D402	85938402
160 mm	Stainless steel 304	1,6	0/400 mbar	PF160E D402	85929402

Blue part no. = in-stock items

PF100FL D402

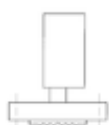
Housing ∅	Housing	Accuracy class	Range	Type	Part no.
100 mm	Stainless steel 304	1,6	0/0.6 bar	PF100FL D402	88950402
100 mm	Stainless steel 304	1,6	0/1 bar	PF100FL D402	88951402
100 mm	Stainless steel 304	1,6	0/1.6 bar	PF100FL D402	88952402
100 mm	Stainless steel 304	1,6	0/2.5 bar	PF100FL D402	88953402
100 mm	Stainless steel 304	1,6	0/4 bar	PF100FL D402	88954402
100 mm	Stainless steel 304	1,6	0/6 bar	PF100FL D402	88955402
100 mm	Stainless steel 304	1,6	0/10 bar	PF100FL D402	88956402
100 mm	Stainless steel 304	1,6	0/16 bar	PF100FL D402	88957402
100 mm	Stainless steel 304	1,6	0/25 bar	PF100FL D402	88958402
100 mm	Stainless steel 304	1,6	0/100 mbar	PF100FL D402	88946402
100 mm	Stainless steel 304	1,6	0/160 mbar	PF100FL D402	88947402
100 mm	Stainless steel 304	1,6	0/250 mbar	PF100FL D402	88948402
100 mm	Stainless steel 304	1,6	0/400 mbar	PF100FL D402	88949402



Blue part no. = in-stock items

PF160FL D402

Housing ∅	Housing	Accuracy class	Range	Type	Part no.
160 mm	Stainless steel 304	1,6	0/0.6 bar	PF160FL D402	88970402
160 mm	Stainless steel 304	1,6	0/1 bar	PF160FL D402	88971402
160 mm	Stainless steel 304	1,6	0/1.6 bar	PF160FL D402	88972402
160 mm	Stainless steel 304	1,6	0/2.5 bar	PF160FL D402	88973402
160 mm	Stainless steel 304	1,6	0/4 bar	PF160FL D402	88974402



Blue part no. = in-stock items



Housing 	Housing	Accuracy class	Range	Type	Part no.
160 mm	Stainless steel 304	1,6	0/6 bar	PF160FL D402	88975402
160 mm	Stainless steel 304	1,6	0/10 bar	PF160FL D402	88976402
160 mm	Stainless steel 304	1,6	0/16 bar	PF160FL D402	88977402
160 mm	Stainless steel 304	1,6	0/25 bar	PF160FL D402	88978402
160 mm	Stainless steel 304	1,6	0/400 mbar	PF160FL D402	88969402

Blue part no. = in-stock items

PF100FLO D402

Housing 	Housing	Accuracy class	Range	Type	Part no.
100 mm	Stainless steel 304	1,6	0/100 mbar	PF100FLO D402	88906402
100 mm	Stainless steel 304	1,6	0/160 mbar	PF100FLO D402	88907402
100 mm	Stainless steel 304	1,6	0/250 mbar	PF100FLO D402	88908402
100 mm	Stainless steel 304	1,6	0/400 mbar	PF100FLO D402	88909402
100 mm	Stainless steel 304	1,6	0/0.6 bar	PF100FLO D402	88910402
100 mm	Stainless steel 304	1,6	0/1 bar	PF100FLO D402	88911402
100 mm	Stainless steel 304	1,6	0/1.6 bar	PF100FLO D402	88912402
100 mm	Stainless steel 304	1,6	0/2.5 bar	PF100FLO D402	88913402
100 mm	Stainless steel 304	1,6	0/4 bar	PF100FLO D402	88914402
100 mm	Stainless steel 304	1,6	0/6 bar	PF100FLO D402	88915402
100 mm	Stainless steel 304	1,6	0/10 bar	PF100FLO D402	88916402
100 mm	Stainless steel 304	1,6	0/16 bar	PF100FLO D402	88917402
100 mm	Stainless steel 304	1,6	0/25 bar	PF100FLO D402	88918402

Blue part no. = in-stock items

PF160FLO D402

Housing 	Housing	Accuracy class	Range	Type	Part no.
160 mm	Stainless steel 304	1,6	0/0.6 bar	PF160FLO D402	88930402
160 mm	Stainless steel 304	1,6	0/1 bar	PF160FLO D402	88931402
160 mm	Stainless steel 304	1,6	0/1.6 bar	PF160FLO D402	88932402
160 mm	Stainless steel 304	1,6	0/2.5 bar	PF160FLO D402	88933402
160 mm	Stainless steel 304	1,6	0/4 bar	PF160FLO D402	88934402

Blue part no. = in-stock items

Housing [⊗]	Housing	Accuracy class	Range	Type	Part no.
160 mm	Stainless steel 304	1,6	0/6 bar	PF160FLO D402	88935402
160 mm	Stainless steel 304	1,6	0/10 bar	PF160FLO D402	88936402
160 mm	Stainless steel 304	1,6	0/16 bar	PF160FLO D402	88937402
160 mm	Stainless steel 304	1,6	0/25 bar	PF160FLO D402	88938402
160 mm	Stainless steel 304	1,6	0/400 mbar	PF160FLO D402	88929402

Blue part no. = in-stock items