

Pressure gauges with diaphragm with or without liquid filling for especial safety

Accuracy class 1.6

Nominal sizes ND 100, 160 Connection position bottom, radial



Description

The design principle and material selection of our pressure gauges allow them to meet the stringent demands occurring in service in industrial production plants, particulary in safety areas.

An extremely high resistance to overpressure is achieved by underpropping the diaphragm. If the gauges should be overloaded, accidents are prevented by a laminated safety glass, an unbreakable partition in the unit (solid front), and a blow-out rear panel to the case. The special material coating on the components in contact with the process medium protects them from attack by chemically aggressive media. Process reliability with highly viscous, crystallizing or heterogeneous media is increased by the use of open process connections, ensuring that the gauges are easy to clean, e.g. by flushing.

Features

- o Special material for high corrosion resistance
- o High resistance to overpressure
- o Avoidance of accidents by unbreakable partition (solid front) and blow-out rear panel
- o Damping of the indicator by glycerine filling
- o Higher process reliability with highly viscous, crystallizing or heterogeneous process media

Ranges

0 ... 16 mbar to 0 ... 250 mbar

0 ... 0.4 bar to 0 ... 40 bar

and all corresponding ranges for negative or negative and positive gauge pressure

Applications

Chemical and petrochemical industry, Food and beverages industries; mechanical engineering, plant and apparatus construction.

Model: P2125, P2126, P2127, P2128

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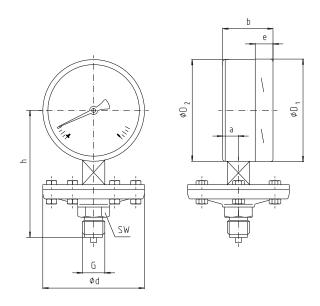
Technical data

Model	P2125	P2127	P2126	P2128	Options	
fill	without	without filling with filling		filling	-	
Nominal size	100	160	100	160		
Symbol						
Accuracy class 1)	1.6 to EN 837-	3				
in accordance to	EN 837-3					
Ranges	0 16 to 0 3 0 0.4 bis 0 plus all corresp positive gauge	. 40 bar: flange onding ranges pressure				
Application	Constant load: Alternating load	full scale d: 0.9 x full sca				
Overload protection	5 x full scale va	alue, max. 40 ba		10 x full scale value, max. 40 bar vacuum proof -1 bar		
Liquid filling	no	ne	Glycerine 86%	% / Water 14%		
Temperatures - Medium - Ambient	Tmin20°C, T Tmin20°C, T					
Protection to EN 60 529/IEC 529	IP		IP			
Case and upper flange	stainless steel front) and blow		unbreakable par	tition (solid		
Process connection and lower flange	stainless steel		3, SW 22		other threads on request	
Elastic measuring element	\leq 0,40 bar Edels > 0,40 bar INCO					
Movement	Stainless steel					
Dial	Aluminium, wh			Dual scale		
Pointer	Aluminium, bla					
Window	Laminated safe					
Bezel	Bayonet ring, s	tainless steel 1				
Seal to: pressure chamber filled internal chamber	Seal to: pressure chamber filled internal chamber		FPM (Seals made of Viton [®]) NBR-bellow (Perbunan)		Metal bellow (stainless steel)	
Components in contact with medium	See process co measuring eler		coated with special materials: PTFE, PFA, ECTFE, Hastelloy, Monel, Nickel, Tantal, Titan, Silver			
Open process connection					to DIN / ANSI from DN 15 to DN 80 (preferred nominal diameters DN 25 and DN 50)	

 $^{1})\;$ with liquid filling: \leq 25 mbar accuracy class 2.5 $^{2)}\;$ Viton $^{\textcircled{R}}\;$ fluoroelastomer, a product of DuPont Dow Elastomers

Dimensions

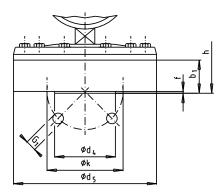
Standard version



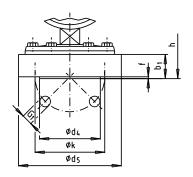
	Ranges	Dimensions (mm)									Weight (kg)	
ND	(bar)	d	а	b	D ₁	D ₂	е	G	h ± 2	SW	Weight (kg)	
100	≤ 0.25	160	24	58.5	101	100	17.5	G 1/2 B	117	22	1.90	
160			24	58	161	160	17.5	G 1/2 B	149	22	4.10	
100	≥ 0.4	> 0 4	100	24	58.5	101	100	17.5	G 1/2 B	117	22	2.50
160		100	24	58	161	160	17.5	G 1/2 B	149	22	4.20	

connection to EN 837-3

Options with connection DIN DN 25¹), PN 10 to 40



Ranges 0 ... 16 to 0 ... 250 mbar



Ranges 0 ... 0.4 to 0 ... 40 bar

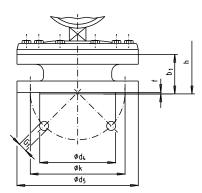
ND	process connection DIN DN 25		Weight						
	PN 10 bis 40	d5	k	d4 ²)	b1	f	G ₁	h ± 2	(kg)
100	≤ 0,25 bar	160	85	68	36	2	4 x M 12	122	5,00
160			85	68	36	2	4 x M 12	152	5,70
100	- ≥ 0,4 bar	115	85	68	25	2	4 x M 12	111	3,70
160		115	85	68	25	2	4 x M 12	141	4,00

Other dimensions as in standard version

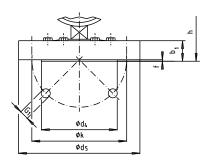
 $^{1}) \ \ \, \text{Suitable for connection to mating flange to DIN 2566, 2567, 2581, 2583, 2633, 2635, 2642, 2653, 2656 and 2673}$

²) Sealing strip form D.

Options with process connection DIN DN 50 ¹), PN 10 to 40



Ranges 0 ... 16 to 0 ... 250 mbar



Ranges 0 ... 0.4 to 0 ... 40 bar

ND	process connection DIN DN 50		Weight (kg)						
	PN 10 bis 40	d5	k	d4 ²)	b ₁	f	G ₁	h ± 2	0 (0,
100	- ≤ 0.25	165	125	102	54	3	4 x Ø 18	140	6.20
160		165	125	102	54	3	4 x arnothing 18	170	7.00
100	≥ 0.4	165	125	102	30	3	4 x arnothing 18	106	4.70
160		100	125	102	30	3	4 x arnothing 18	136	5.20

Other dimensions as in standard version

¹) Suitable for connection to mating flange to DIN 2566, 2567, 2581, 2583, 2633, 2635, 2642, 2653, 2656 and 2673

²) Sealing strip form D.