

Diaphragm type pressure gauge

Model P5500 and P6500

According EN 837-3
 Nominal size 100 mm or 160 mm
 Accuracy: Class 1,6



Features

- Stainless steel construction
- Suitable for corrosive environments
- Protection IP65
- Usable to full scale
- Overload protection up to 5 times F.S.
- Dry or liquid filled

Ranges

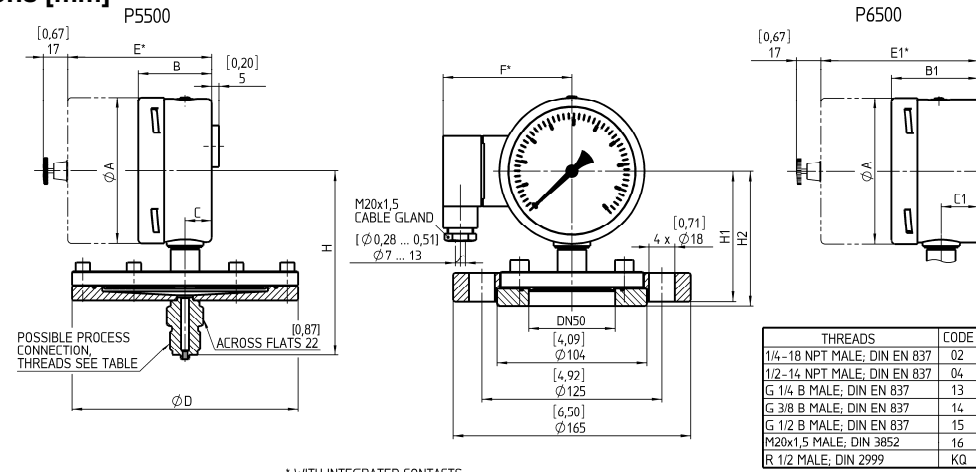
-16 ... 0 mbar up to 0 ... 25 bar
 -6 ... 0 in. H₂O up to 0 ... 300 psi

Applications

Chemical and petrochemical industry
 Machine and apparatus construction
 Food and beverage industry
 Pulp and paper industry

Technical specification	P5500		P6500	
Dial size [mm]	100	160	100	160
Construction	Open front cylindrical case with blow out disc at the back		Solid front safety pattern cylindrical case with blow out at the back	
Zero adjustment	Optional with micrometer pointer or external zero adjustment (recommended for all liquid filled gauges)			
Measuring principle	Horizontal diaphragm			
Range [mbar]	16 25 40 60 100 160 250 400 -16/0 -25/0 -40/0 -60/0 -100/0 -160/0 -250/0 -400/0			
[bar]	0,6 1,0 1,6 2,5 4 6 10 16 25 -1/0 -1/0,6 -1/1,5 -1/3 -1/5 -1/9 -1/15			
Overpressure limit	Continues service up to full scale, alternating service up to 90 % of range 5 times F.S., but max. 40 bar			
Pressure type	Gauge, vacuum and compound			
Process connection	G 1/4 B male, G 3/8 B male, G 1/2 B male according to EN 837 1/4 NPT male, 1/2 NPT male according ANSI/ASME B1.20.1 Direct flange DN20/PN40, DN25/PN40, DN50/PN40 Open flange with steel cover flange DN50 Direct flange 1", 2", 3" 150 lbs RF, 1" 300 lbs RF according ANSI/ASME Others on request			
Connection location	Lower			
Material	Stainless steel 316L (1.4404), optional PTFE lining > 0,4 bar Duratherm 2.4781 (NiCrCo alloy), optional with PTFE-lining or Hastelloy C diaphragm ≤ 400 mbar stainless steel 316Ti (1.4571), optional PTFE-lining			
Chamber flange	Stainless steel 316L (1.4404)			
Diaphragm	Laminated safety glass, optional acrylic glass			
Sealing	Viton O-ring			
Case/bayonet ring	Aluminum, black markings on white background			
Window	Aluminum, black, optional micrometer adjustment, red set hand or maximum pointer			
Dial	Stainless steel 304 (1.4301)			
Pointer				
Movement				
Accuracy	Class 1,6 (1,6 % F.S.), with PTFE-lining class 2,5 (2,5 % F.S.)			
Permissible	-20 ... 60 °C Max. 85 °C -40 ... 60 °C Max. 0,5 % / 10 K			
Ambient temperature				
Medium temperature				
Storage temperature				
Effect				
Conformity according to RL 94/9/EC appendix X for mechanical equipment in potential hazardous areas	Optional, Marking CE II 2 GD c 95°C IP65 File No. 8000395287 at notified body 0032, TÜV NORD CERT			
Protection according EN 60 529/IEC 529	IP65			
Filling liquids	Glycerin, silicone, others on request, only available for ranges ≥ 100 mbar			
Mounting	Standard stem or flange			
Weight ≤ 400 mbar / > 400 mbar [kg]	2,3/1,8	3,8/3,4	2,3/1,8	3,8/3,4
Accessories, options	Valves, gauges with contacts (see G1.K55/E)			

General dimensions [mm]

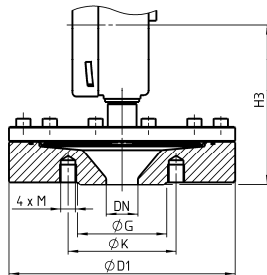


* WITH INTEGRATED CONTACTS

PRESSURE RANGE	SIZE	ØA	B	B1	C	C1	ØD	E*	E1*	F*	H
≥ 0,6 bar	100	[3,97] 101	[2,01] 51	[2,38] 61	[0,73] 18,5	[1,02] 26	[3,90] 99	[3,94] 100	[4,33] 110	[3,50] 89	[5,04] 128
	160	[6,35] 161	[1,96] 50	[2,52] 64	[0,76] 17	[1,11] 28	[3,90] 99	[3,94] 100	[4,49] 114	[4,69] 119	[6,22] 158
≤ 400 mbar	100	[3,97] 101	[2,01] 51	[2,38] 61	[0,73] 18,5	[1,02] 26	[3,90] 99	[3,94] 100	[4,33] 110	[3,50] 89	[4,92] 125
	160	[6,35] 161	[1,96] 50	[2,52] 64	[0,76] 17	[1,11] 28	[3,94] 100	[3,94] 100	[4,49] 114	[4,69] 119	[6,10] 155

RANGE DN	ØD1	ØG	H3	ØK	4 x M
DN20/PN40	[4,33] 105	[6,18] 157	[2,28] 58	[2,95] 75	M12
DN25/PN40	[4,53] 115	[6,60] 168	[4,17] 106	[5,35] 136	M16
DN50/PN40	[6,50] 165	[6,50] 165	[4,02] 102	[4,92] 125	M16
DN1" 150 lbs	[4,25] 108	[2,00] 50,8	[4,57] 116	[5,75] 146	1/2-13 UNC
DN1" 300 lbs	[4,88] 123,9	[2,00] 50,8	[4,80] 122	[5,98] 152	5/8-11 UNC
DN2" 150 lbs	[6,00] 152,4	[3,62] 91,9	[4,29] 109	[5,47] 139	5/8-11 UNC
DN3" 150 lbs	[7,52] 190,9	[5,00] 127	[4,29] 109	[5,47] 139	THROUGH HOLE Ø19,1

FLANGE DN50	SIZE	H1	H2
100	[4,61] 117	[4,72] 120	
160	[5,79] 147	[5,91] 150	



Order information

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering units	Filling	Options
(100) 100 mm	P5500	(S) Diaphragm 316Ti (1.4571) or Duratherm, flange 316L (1.4404)	(=) IP65	(02) ¼ NPT male	(L) Lower	-16/ 0	MBAR	(=) Standard no filling	(6B) Cleaned for Oxygen service
(160) 160 mm	P6500	(ST) Diaphragm 316Ti (1.4571) or Duratherm, flange 316L (1.4404), PTFE-lined (accuracy class 2,5 [2,5 % F.S.], range ≥160 mbar, not for NPT threads)	(L) Liquid filled IP65 ¹⁾	(04) ½ NPT male (13) G ¼ B male (14) G 3/8 B male (15) G ½ B male Flange: (DN20) DN20 (DN25) DN25 (DN50) DN50 (10-150) 1"150# (10-300) 1"300# (20-150) 2"150# (30-150) 3"150# (R50) Open flange DN50		... -400/ 0 0/ 16 0/ 25 0/ 40 0/ 60 0/ 100 0/ 160 0/ 250 0/ 400 -1/ 0 -1/ 1,5 -1/ 3 -1/ 5 -1/ 9 -1/ 15 -1/ 24 0/ 0,6 0/ 1 0/ 1,6 0/ 2,5 0/ 4 0/ 6 0/ 10 0/ 16 0/ 25	BAR	(GR) Glycerin (GV) Silicone () Contact type and function (see data sheet G1.K55/E) ¹⁾	(ATEX) ATEX approval (CS) Dual scale (DA) Dial marking (EA) External zero adjustment (EP) Maximum pointer, adjustable (MP) Micrometer pointer (NH) Tagging wired (PD) Acrylic glass (SH) Red set hand stationary
		(HS) Diaphragm Hastelloy C, flange 316L (1.4404) (only for ranges ≥600 mbar)							
			¹⁾ liquid filled only for ranges ≥ 100 mbar	others on request			psi and others on request	¹⁾ ranges ≤400 mbar only available with dial size 160 mm	

How to order

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling	Option
100	P5500	S	=	04	L	0/250	MBAR	=	NH

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