

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

-25 ... 0 mbar up to 0 ... 25 bar

-10 ... 0 in. H₂O up to 0 ... 300 psi

Applications

Chemical and petrochemical industry

Machine and apparatus construction

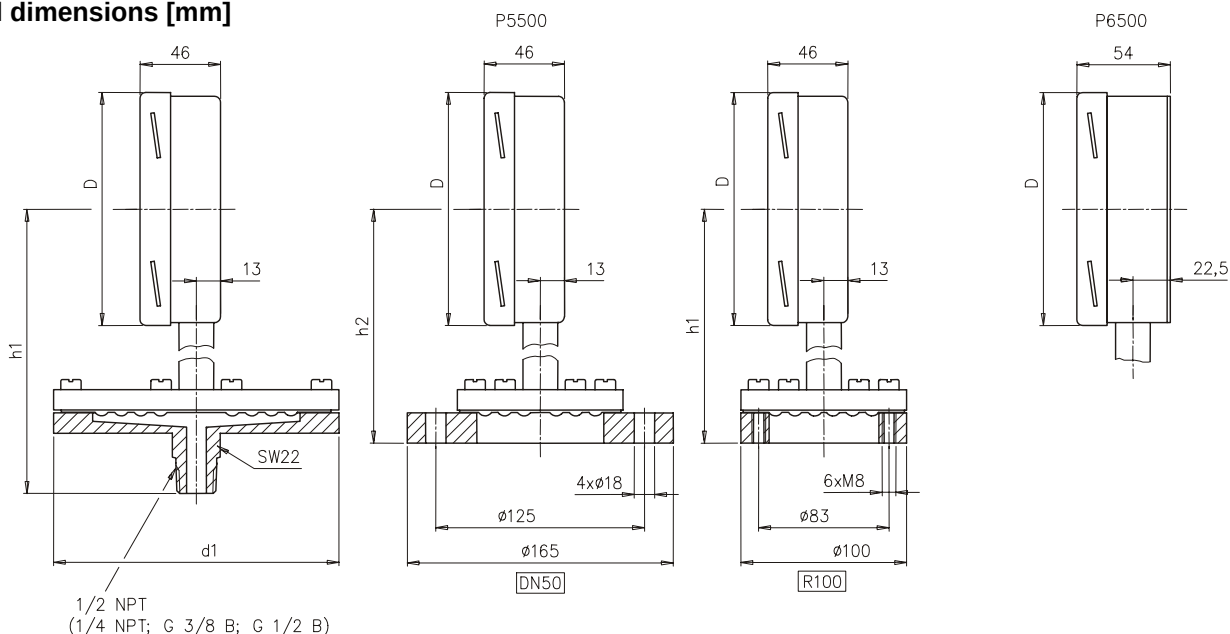
Food and beverage industry

Pulp and paper industry



Technical specification	P5500				P6500											
Dial size [mm]	100		160		100		160									
Construction	Open front cylindrical case, optional with blow out disc at the back				Solid front safety pattern cylindrical case with blow out at the back											
Measuring principle	Horizontal diaphragm															
Range [mbar]	25	40	60	100	160	250	400	-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 maximum rating, alternating service up to 90 % or rating															
Pressure type	Optional 5 times F.S., but max. 40 bar															
Process connection	Gauge, vacuum and compound															
Connection location	G ¼ B male, G 3/8 B male, G ½ B male															
	¼ NPT male, ½ NPT male according ANSI/ASME B1.20.1															
	Direct flange DN25/PN40, DN50/PN40, open ring dia. 100x83x6xM8 with opening dia. 63 mm															
	Extended flange DN25/PN16-40, DN40/PN16-40, DN50/PN16-40															
	Extended flange 1", 1 ½", 2", 150 ... 600 lbs RF according ANSI/ASME															
Others on request																
Material	Lower															
Measuring flange	Stainless steel 316 (1.4401), on request Halar coated or PTFE lined or Polypropylene															
Diaphragm	> 2,5 bar steel covered with stainless steel 316 (1.4401), on request PTFE-lining															
Case/bayonet ring	≤ 2,5 bar stainless steel 316Ti (1.4571), on request PTFE-lining															
Window	Stainless steel 304 (1.4301), optional 316 (1.4401)															
Dial	Instrument glass, optional laminated safety glass or Laminated safety glass, optional acrylic glass															
Pointer	acrylic glass															
Movement	Aluminum, black markings on white background															
Accuracy	Aluminum, black, optional micrometer adjustment, red set hand or maximum pointer															
Permissible	Stainless steel 304 (1.4301)															
Ambient temperature	Class 1,6 (1,6 % F.S.)															
Medium temperature	-25 ... 50 °C															
Storage temperature	Max. 100 °C															
Effect	-40 ... 60 °C															
Protection according EN 60 529/IEC 529	Max. 0,5 % / 10 K															
Filling liquids	IP65															
Mounting	Glycerin, silicone, others on request, only possible for ranges ≥ 40 mbar															
Weight ≤ 400 mbar / > 400 mbar [kg]	2,3/1,8		3,8/3,4		2,3/1,8		3,8/3,4									
Accessories, options	Standard stem or flange															
	2,3/1,8		3,8/3,4		2,3/1,8		3,8/3,4									
	Valves, gauges with contacts (see G1.K55/E), compensation diaphragm for filled cases															

General dimensions [mm]



NG	∅D	∅d1		h1	h2
100 mm	102	100 ¹⁾	160 ²⁾	132	110
160 mm	162	100 ¹⁾	160 ²⁾	147	140

¹⁾ Pressure range > 400 mbar ²⁾ Pressure range ≤ 400 mbar

Order information

Rev. C

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering units	Filling/blow out	Options
(100) 100 mm	P5500	(S) Diaphragm 316Ti (1.4571), flange	(=) IP65	(04) ½ NPT male	(L) Lower	-25/ 0 -40/ 0 -60/ 0 -100/ 0 -160/ 0 -250/ 0 -400/ 0	MBAR	(=) Standard no filling	(NH) Tagging wired
(160) 160 mm	P6500	316 (1.4401)	(L) Liquid filled IP65 ¹⁾	(02) ¼ NPT male				(GV) Silicone	(CS) Dual scale
		(SP) > 400 mbar diaphragm PTFE-lined, flange polypro- pylene		(13) G ¼ B male				(GR) Glycerin	(6B) Oxygen cleaned
		(SH) Diaphragm 316Ti (1.4571), flange 316 (1.4401) Halar coated		(14) G 3/8 B male		0/ 25 0/ 40 0/ 60 0/ 100 0/ 160 0/ 250 0/ 400		(RB) Blow out disc (only dry execu- tion)	(MP) Micrometer pointer
		(ST) Diaphragm 316Ti (1.4571), flange 316 (1.4401) PTFE-lined		(15) G ½ B male				(RBL) Blow out disc with compen- sation dia- phragm (only for liquid filled execution)	(EP) Maximum pointer, adjustable
				(DN50) Flange DN50					(PD) Acrylic glass
				(R100) Open flange with ring dia. 100x83x6xM8		-1/ 0 -1/ 1,5 -1/ 3 -1/ 5 -1/ 9 -1/ 15 -1/ 24	BAR	() Contact type and function (see G1.K55/E)	(SG) Safety glass
						0/ 0,6 0/ 1 0/ 1,6 0/ 2,5 0/ 4 0/ 6 0/ 10 0/ 16 0/ 25			(HP) Overpressure load 5 times (max. 40 bar)
									(DA) Dial marking
									(SH) Red set hand stationary

¹⁾ liquid filled
only for
ranges
≥ 40 mbar

others on request

psi and others
on request

How to order

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling/blow out	Option
100	P5500	S	=	04	L	-25/0	MBAR	=	NH

Ashcroft Instruments GmbH

Germany
Max-Planck-Str. 1, D-52499 Baesweiler
P.O. Box 11 20, D-52490 Baesweiler
Tel.: +49 (0) 2401 808-0, Fax: +49 (0) 2401 808-125

France
„206“ ZA Le Mandinet Rue des Campanules
F-77185 Lognes
Tel.: +33 (0) 1 60 37 25 30, Fax: +33 (0) 1 60 37 25 39

Website: www.ashcrofteurope.com

e-Mail: sales@ashcrofteurope.com

United Kingdom
Unit 5 William James House
Cowley Road, Cambridge CB4 0WX
Tel.: +44 (0) 12 23 39 55 00, Fax: +44 (0) 12 23 39 55 01