

P5500 and P6500 Low Pressure Diaphragm Gauges

FEATURES

- "Dry cell" mechanism
- Ranges from 10 Inches of Water
- Overpressure protection up to 10 times range (OPT.)
- Available dry or liquid filled
- Optional ATEX certification
- Threaded or flanged process connections

TYPICAL USES

- Oil & gas
- Chemical and petrochemical
- Food and beverage
- Vacuum pumps
- Pulp and paper

SPECIFICATIONS

Accuracy:	±1.6% of span					
Size:	100mm, 160mm					
Range:	10 IW to 300 psi including vacuum ranges					
Process Conn. Location:	Lower, threaded or flanged					
Process Conn. Size: Threaded: Flanged:	1⁄4 NPT Male, 1⁄2 NPT Male 1⁄2″, 1″, 2″, and 3″					
Case Style:	P5500: Open front with pressure relief disc and ventable fill plug on top P6500: Solid front with pressure relief back and ventable fill plug on top					
Movement:	304 stainless steel					
Window Material:	Safety glass (STD.), acrylic (OPT.)					
Diaphragm Material:	≤ 80 IW - 316Ti, ≥ 80 IW - Duratherm [®] (NiCrCo alloy) Hastelloy [®] C-276 (OPT.)					
Dial:	Aluminum, white background, black figures and intervals					
Pointer:	Aluminum black					
Overpressure Protection:	5 times and 10 times (OPT.), up to 580 psi					
Weather Protection:	Dry: IP66 and NEMA 4x Liquid filled/hermetically sealed: IP66/67 and NEMA 4X					
Mounting:	Stem, flanged					
WETTED COMPON	IENTS					
Diaphragm	Lower Housing	Other				
316Ti SS Hastelloy® C-276 Duratherm®	316 SS Hastelloy® C-276 O-Ring, Vi					



KEY BENEFITS

- Uses a "dry cell" mechanism with no system fill fluid to avoid possible media contamination
- IP66 for use outdoors or humid environments
- 10X full scale range over pressure capability (XHP Option)

NON-WETTED COMPONENTS									
Case		Bayonet I	Ring	Window					
316L SS (STD.)		316L SS (STD.)		Safety glass (STD.) Safety glass, acrylic (OPT.)					
MIN/MAX TEMPERATURE LIMITS									
Version	Ambient		Pro	cess	Storage				
Dry	-4°F to 140°F (-20°C to 60°C)		-4°F to 185°F (-20°C to 85°C)		-40°F to 158°F (-40°C to 70°C)				
Glycerin	19°F to 140°F (-7°C to 60°C)		19°F to 185°F (-7°C to 85°C)		-4°F to 158°F (-20°C to 70°C)				
Silicone	-4°F to 140°F (-20°C to 60°C)		-20°F to 140°F (-29°C to 60°C)		-40°F to 158°F (-40°C to 70°C)				
ATEX		°F to 140°F 0°C to 60°C)		185°F to 85°C)	-4°F to 140°F (-20°C to 60°C)				

*Accuracy at temperatures above or below the referenceambient temperatures of 68°F (20°C) will be affected by approximately 0.8% per 25°F.

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P5500 and P6500 Low Pressure Diaphragm Gauges

ORDERING CODE	Example:	10P5500	S	S	D	т	04	L	00	00000	10IW	ХР
Dial Size/Model Code												
10P5500 - 100mm open front diaphragm pressure g	gauge	10P5500										
16P5500 - 160mm open front diaphragm pressure	gauge											
10P6500 - 100mm solid front diaphragm pressure g	jauge											
16P6500 - 160mm solid front diaphragm pressure g	jauge											
Diaphragm												
H - Hastelloy [®] C-276												
S - 316Ti Stainless steel, Duratherm®			S									
Lower Housing												
H - Hastelloy [®] C-276					-							
S - 316 Stainless steel				S								
Case Design												
D - Dry case					D							
L - Liquid filled case, glycerin (STD.), (for ranges ≥ 4	10 IW only)					-						
Process Connection Type						-						
T - Threaded						Т						
F - Flanged												
Process Connection Sizes												
00 - Flanged process connection												
02 - ¼ NPT Male												
04 - ½ NPT Male							04					
Process Connection Location												
L - Lower								L				
Flange Connection Sizes												
00 -Threaded process connection									00			
50 -1⁄2″ NPS												
10 - 1″ NPS												
15 -1½″ NPS												
20 - 2″ NPS												
30 - 3″ NS												
Flange Ratings												
00000 - Threaded process connection										00000		
150RF -150# Raised Face Flange												
300RF - 300# Raised Face Flange												
Range (coding example only, see range table on	page 3 for all sta	indard range	s)									
10IW - 10 Inches of water											10IW	
Options (If choosing an option(s) must include an	n "X") (for more o	ptions, see t	able 2	on pag	e 4)							Χ_
PD - Acrylic window												P

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Other ranges and engineering units available

psi	inH₂O	mbar	bar	kPa	mPa	kg/cm²	mmH₂0	cmH₂0	mmHG
N0.2/0.2#	N16/0IW	N16/0MB	N1/0BR	N2.5/0KP	N0.01/0.01MP	N1/0KG	N160/0MW	N100/100CW	N600/0MM
N0.4/0.25#	N40/0IW	N25/0MB	N0.6/0BR	N4/0KP	N0.0016/0MP	N0.0125/0.0125KG	N250/0MW	N400/400CW	0/100MM
N5/5#	N5/5IW	N40/0MB	N0.1/0BR	N6/0KP	0/0.016MP	N0.05/0.05KG	N400/0MW		0/160MM
N14.5/43.5#	N10/10IW	N60/0MB	N0.1/0.1BR	N10/0KP	0/0.04MP	N0.1/0.1KG	N600/0MW		0/200MM
N14.5/130.5#	N10/20IW	N100/0MB	N0.1/0.15BR	N16/0KP	0/0.06MP	N0.5/0.5KG	N1000/0MW		0/300MM
N2/0#	N10/40IW	N250/0MB	N0.1/2BR	N40/0KP	0/0.4MP	N1/2KG	N1600/0MW		
N3.6/0#	N15/15IW	N400/0MB	N0.15/0.25BR	N60/0KP	0/0.6MP	N1/5KG	N2500/0MW		
N6/0#	N20/20IW	N600/0MB	N0.2/0.2BR	N100/0KP	0/1MP	N1/24KG	N4000/0MW		
N15/0#	N50/50IW	N10/10MB	N0.5/0.5BR	N0.8/0.8KP	0/1.6MP	0/0.04KG	N6000/0MW		
0/1#	N100/100IW	N12.5/12.5MB	N1/0.6BR	N1/1KP	0/2.5MP	0/0.1KG	N1000/0MW		
0/3#	0/10IW	N15/10MB	N1/1BR	N3/3KP		0/0.2KG	N50/200MW		
0/4#	0/15IW	N16/16MB	N1/3BR	N4/4KP		0/0.6KG	N50/500MW		
0/5#	0/30IW	N20/20MB	N1/4BR	N10/10KP		0/1KG	N100/150MW		
0/6#	0/40IW	N30/30MB	N1/5BR	N12.5/12.5KP		0/2.5KG	N100/400MW		
0/8#	0/50IW	N40/40MB	N1/24BR	N20/20KP		0/4KG	N100/500MW		
0/9#	0/100IW	N50/50MB	0/0.025BR	N30/30KP		0/10KG	N100/1000MW		
0/10#	0/160IW	N60/60MB	0/0.06BR	N100/100KP		0/16KG	N125/125MW		
0/15#		N80/80MB	0/0.1BR	N100/2400KP		0/25KG	N500/500MW		
0/30#		N100/100MB	0/0.15BR	N1250/1250KP			0/160MW		
0/35#		N250/250MB	0/0.16BR	0/1.6KP			0/200MW		
0/60#		N1000/1000MB	0/0.2BR	0/5KP			0/250MW		
0/85#		0/16MB	0/0.25BR	0/6KP			0/400MW		
0/100#		0/25MB	0/0.3BR	0/10KP			0/500MW		
0/140#		0/30MB	0/0.4BR	0/20KP			0/600MW		
0/200#		0/40MB	0/0.6BR	0/40KP			0/750MW		
0/220#		0/60MB	0/1BR	0/60KP			0/1000MW		
0/232#		0/100MB	0/1.6BR	0/100KP			0/1210MW		
0/300#		0/160MB	0/2BR	0/160KP			0/1600MW		
		0/200MB	0/2.5BR	0/250KP			0/2000MW		
		0/250MB	0/4BR	0/400KP			0/2500MW		
		0/400MB	0/6BR	0/600KP			0/3000MW		
		0/500MB	0/7BR	0/1000KP			0/4000MW		
		0/600MB	0/10BR	0/1600KP			0/5000MW		
		0/1000MB	0/11BR	0/2500KP			0/6000MW		
		0/1600MB	0/14BR	0/4000KP					
			0/16BR						
			0/20BR						
			0/25BR						

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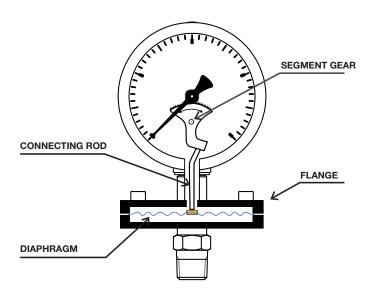
Trust the shield.



P5500 and P6500 Low Pressure Diaphragm Gauges

	TABLE 2 - OPTIONS									
Code	Description	Notes								
DA	Dial marking	Information is required by the customer								
GV	Silicone case fill									
GX	Halocarbon filled case									
HP	Overpressure protection 10-times F.S.	Maximum protection up to 580 psi. Not available for ranges below 10IW and vacuum or compound ranges								
5G	Instrument assembled to accessory									
MQ	Positive material certificate (PMI)									
NH	Stainless steel tag wired to case	Information is required by the customer								
PD	Polycarbonate window									
C3	Certificate according to EN 10204 3.1 C3									
C4	CD-4 calibration certificate									
HY	Hydrostatic pressure test HY	Only available with overload protection (Option HP)								
EP	Maximum pointer	With acrylic window only, 100mm only								
AT	ATEX Approval									
E6	Six O'clock stop pin									
VS	Underload stop	$40inH_20$ and above only								
MP	Micrometer adjustable pointer									
EA	External zero	Standard with liquid filled gauge not available with option code MP								

PRINCIPLE OF "DRY CELL" OPERATION



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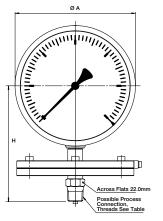
P5500 and P6500 Low Pressure Diaphragm Gauges

DIMENSIONS in [] are decimal inches

For reference only, consult Ashcroft for specific dimensional drawings.

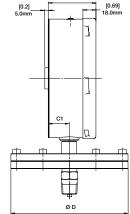
P5500, 100 mm, (Range < 15 psi)

10.2 10.2 10.2 10.2 18.0mm 0 A C1 0 A

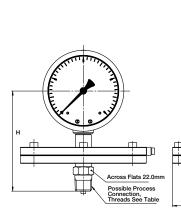


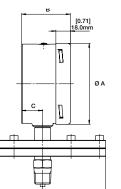
P6500, 160 mm (Range ≥ 15 psi)

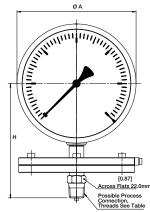
P5500, 160 mm (Range < 15 psi)

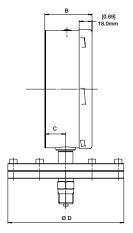


P5500, 100 mm, (Range ≥ 15 psi)









	PRESSURE RANGE	SIZE	ØA	В	B1	C	C1	ØD	н
	≥ 0.6 bar	100	[3.97] 101		[1.02] 26	[3.90] 99	[5.04] 128		
	≥ 0.0 Dai	160	[6.35] 161	[1.96] 50	[2.52] 64	[0.76] 17	[1.11] 28	[3.90] 99	
	< 400 mbar	100	[3.97] 101	[2.01] 51	[2.38] 61	[0.73] 18.5	[1.02] 26	[6.18] 157	
	≤ 400 mbai	160	[6.35] 161	[1.96] 50	[2.52] 64	[0.76] 17	[1.11] 28	[6.18] 157	[4.92] 125

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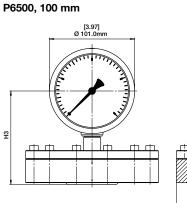
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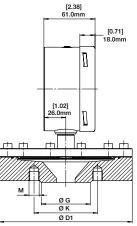


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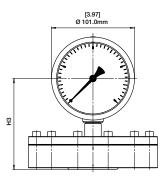
DIMENSIONS in [] are decimal inches

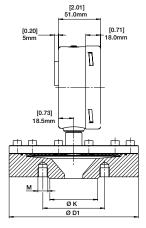
For reference only, consult Ashcroft for specific dimensional drawings.

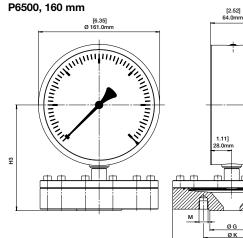


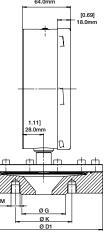


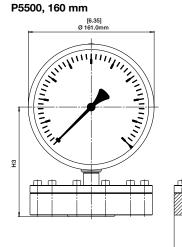
P5500, 100 mm

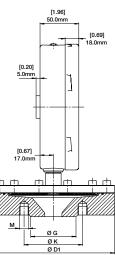












SIZE	ANGE $\geq 0.6 \leq 400$ Ø (
FLANGE Rating*			ØG	H3	ØK	М
1″ 150	-	[4.25] 108	[2.00] 50.8	[5.75] 146	[3.12] 79.2	4 x ½-13 UNC
1 150	[4.25] 108	-	[2.00] 50.8	[5.79] 147	[3.12] 79.2	4 x ½-13 UNC
1″ 300	-	[4.88] 123.9	[2.00] 50.8	[5.94] 151	[3.50] 88.9	4 x ⁵ %-11 UNC
1 300	[4.88] 123.9	-	[2.00] 50.8	[5.98] 152	[3.50] 88.9	4 x %-11 UNC
1½″150	-	[4.92] 125.0	[2.87] 73.0	[5.83] 148	[3.87] 98.4	4 x ½-13 UNC
1/2 100	[4.92] 125.0	-	[2.87] 73.0	[5.87] 149	[3.87] 98.4	4 x ½-13 UNC
1½″ 300	-	[6.10] 155.0	[2.87] 73.0	[5.63] 143	[4.50] 114.3	4 x ¾-10 UNC
1/2 300	[6.10] 155.0	-	[2.87] 73.0	[5.67] 144	[4.50] 114.3	4 x ¾-10 UNC
2″ 150	-	[6.18] 157.0	[3.63] 92.1	[6.02] 153	[4.75] 120.7	4 x %-11 UNC
2 150	[6.0] 152.4	-	[3.63] 92.1	[5.47] 139	[4.75] 120.7	4 x %-11 UNC
2″ 300	-	[6.50] 165.0	[3.63] 92.1	[5.63] 143	[4.75] 120.7	8 x %-11 UNC
2 300	[6.50] 165.0	-	[3.63] 92.1	[5.28] 134	[4.75] 120.7	8 x %-11 UNC
3″ 150	-	[7.52] 190.9	[5.00] 127	[5.47] 139	[6.00] 152.4	Through Hole [0.75] 8 x %-11 UNC
5 150	[7.52] 190.9	-	[5.00] 127	[5.47] 139	[6.00] 152.4	Through Hole [0.75] 8 x %-11 UNC

* $1 \ensuremath{\frac{1}{2}}\xspace^{\prime}$ Process connection not available with P6500

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