

# Type A5500 and A6500 Absolute Pressure Process Gauge



## FEATURES

- All stainless steel construction
- Optional wetted parts Hastelloy C
- Suitable for corrosive environments
- Protection IP65
- Accuracy class 1.6, optional class 1
- Open front or S3 solid front case
- Dry or liquid filled
- High overload capability

## APPLICATIONS

- Monitoring true absolute pressure of gases and liquids
- Vacuum packaging of food and pharmaceutical products
- Vacuum handling equipment
- Waste treatment
- Condensing processes

## CONSTRUCTION

The sensing system consists of 2 pressure chambers, separated by a diaphragm. The upper pressure chamber contains a high level vacuum and provides the reference for absolute pressure measurement.

Pressure to be measured is applied to the pressure connection and the lower pressure chamber. The sensing element, a diaphragm, will be exposed from lower side with pressure. Under pressure the elastic diaphragm is deflecting against the zero position. This deflection is proportional to the adjacent pressure. The link and movement transfer the deflection to the pointer.

Push rod and pressure chamber are sealed by a bellows free of friction and wear out. The spring force of bellows is compensated by the symmetric lower bellows.

## SPECIFICATIONS

### Model Number:

A5500 (open front with blow out plug)  
A6500 (solid front with blow out back wall)

**Accuracy:** Class 1.6, optional class 1

**Ranges:** 25 mbar up to 6 bar absolute

**Dial Size:** 100 mm or 160 mm

### Case and Ring Material:

Stainless steel 1.4404 (316L)

**Window:** Multilayer shatterproof glass

**Dial:** Aluminum, white background, black figures and intervals

**Pointer:** Micrometer adjustable

**Movement:** Stainless steel 316L (1.4404)

**Connection Location:** Lower

### Pressure Chamber material

Stainless Steel 1.4404 (316L),  
Hastelloy C-276 (2.4819)

### Diaphragm Materials

Stainless Steel 1.4404 (316L),  
Hastelloy C-276 (2.4819)

### Bellows Materials

Hastelloy C-276 (2.4819)

### Process Connections

¼ NPT, ½ NPT male/female according to ANSI/ASME B1.20.1, G ¼ B, G ½ B male/female according to EN 837, M20x1.5, others available upon request

### Standard Case Filling Medias

Glycerine, Silicone, Element 14\* PDMS 50-E

### Pressure Rating

Ranges 25 mbar up to 400 mbar abs:  
atmospheric pressure,  
Ranges 0,6 bar up to 6 bar abs: 15 bar

## ENVIRONMENTAL SPECIFICATIONS:

**Ingress Protection:** Dry Case IP65.

Liquid filled case should be vented for temperature compensation (IP54)

### Temperature Limits:

Storage: -20 °C ... 50 °C  
Process: -10 °C ... 80 °C  
Operating: -20 °C ... 70 °C

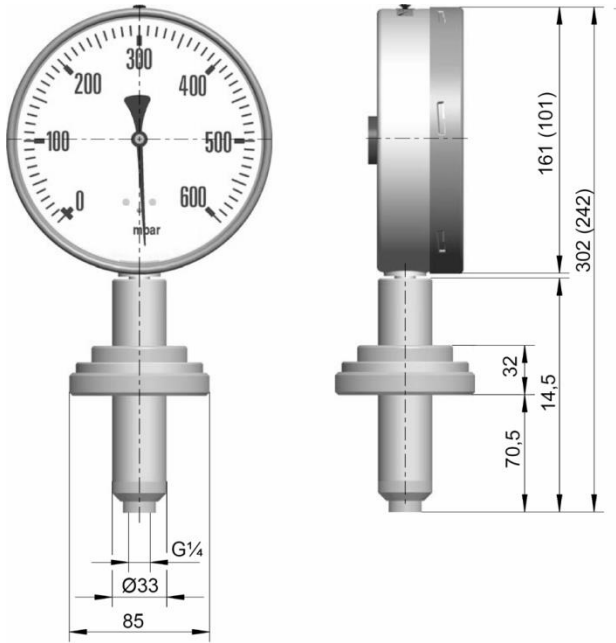
### Temperature Effect:

0,3 % F.S./10 K (reference temp. 20 °C)

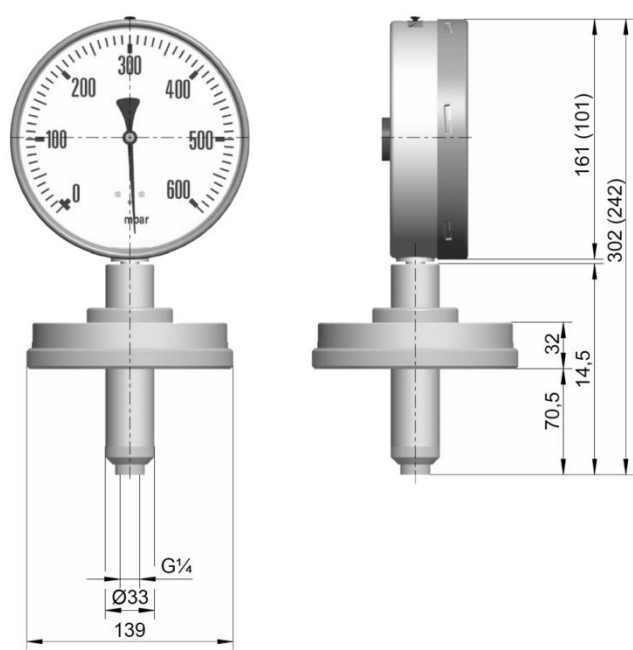
## OPTIONS

- EP Maximum pointer
- EQ Minimum pointer
- NH Stainless steel tagging wired
- SH Red set hand stationary
- 6B Cleaned for oxygen service
- C3 Material certificate EN 10204 3.1
- C4 4-points calibration certificate

## General dimensions in mm [inch]



Ranges from 400 mbar up to 6 bar absolute



Ranges from 25 mbar up to 250 mbar absolute

## Order information

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering units	Filling	Options
(10) 100 mm	A5500	(S) Diaphragm and chamber 316L (1.4404)	(D) Dry	(02) ¼ NPT male	(L) Lower	0/ 25 0/ 40 0/ 60 0/ 100 0/ 160 0/ 250 0/ 400	MBARA	(=) Standard no filling	(6B) Cleaned for Oxygen service
(16) 160 mm	A6500	(H) Diaphragm and chamber Hastelloy C	(L) Liquid filled <sup>1)</sup>	(04) ½ NPT male (13) G ¼ B male (15) G ½ B male (16) M20x1.5 male		0/ 0,6 0/ 1 0/ 1,6 0/ 2,5 0/ 4 0/ 6 0/ 10 0/ 16 0/ 25	BARA	(GR) Glycerin (GV) Silicone	(AN) Accuracy class 1 (CS) Dual scale (DA) Dial marking (EP) Maximum pointer (EQ) Minimum pointer (NH) Tagging wired (PD) Acrylic glass (SH) Red set hand stationary (C3) Material certificate EN 10204 3.1 (C4) 4-points calibration certificate
			<sup>1)</sup> liquid filled only for ranges > 100 mbar	others on request			psi and others on request		Option listing starts with "X", followed by options separated by "-" Example: X-CS=NH

## How to order

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling	Option
10	A5500	S	D	04	L	0/250	MBARA	=	NH

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