

Capsule type pressure gauge Model N5500

According to EN 837-3

FEATURES

- Stainless steel construction
- Suitable for corrosive environments
- Usable to full scale
- Overload protection up to 10 times F.S.
- Zero adjustment at the front
- Designed for gaseous and dry media

APPLICATIONS

- Chemical and petrochemical industry
- Air conditioning
- Food and beverage industry
- Machine and apparatus construction
- Vacuum pumps
- Gas measurement, burners
- Leak detectors
- Vacuum Ovens

EAC



SPECIFICATIONS

| | |
|--------------|--|
| Model Number | N5500 |
| Accuracy | Class 1,6 (1,6% F.S.), optional class 1 (1% F.S.) |
| Range | -6 ... 0 mbar up to 0 ... 600 mbar |
| Dial size | 100 mm or 160 mm |

The Ashcroft® N5500 stainless steel pressure gauge has become an industry standard for low pressures. Providing high reliability, versatility and performance, it proves an ideal product for satisfying many applications and installation requirements.

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SPECIFICATIONS

| | |
|--|--|
| Model Number | N5500 open front with rear blow out disk and ventable fill plug on top |
| Accuracy | Standard: Class 1,6: 1,6% full scale; optional 1,0 % full scale |
| Overpressure limit | Continues service up to maximum rating, alternating service up to 90% F.S. Optional: Overrange protected up to 10 times F.S. (max. 2 bar) |
| Dial size | 100 mm or 160 mm |
| Zero adjustment | At the front |
| Materials | |
| Case | Standard: Stainless steel 304 (1.4301), Optional: Stainless steel 316L (1.4404) |
| Bayonet Ring | Standard: Stainless steel 304 (1.4301), Optional: Stainless steel 316L (1.4404) |
| Window | Standard: Instrumenten glass, Optional: Safety glass or acrylic glass |
| Dial | Aluminum, white background with black figures and intervals |
| Pointer | Standard: Aluminum black |
| Movement | Standard: Stainless steel 304 |
| Capsule | Standard: Stainless steel 316Ti (1.4571) |
| Pressure connection | Standard: Stainless steel 316L (1.4404) |
| Process connection size | See ordering example |
| Connection location | Lower and back |
| Weather protection acc. to EN 60 529 /IEC 529 | IP54, IP65 if vent valve closed |
| Temperature limits | Ambient: -25 ... 60 °C Medium: Max. 100 °C Storage: -40 ... 60 °C |
| Temperature effect | Max. 0,5 % / 10 K |
| Weight | 100 mm: 0,8 kg 160 mm: 1,2 kg |
| Mounting | Standard: Stem, Optional: Flush with front ring or U-clamp, surface others on request |

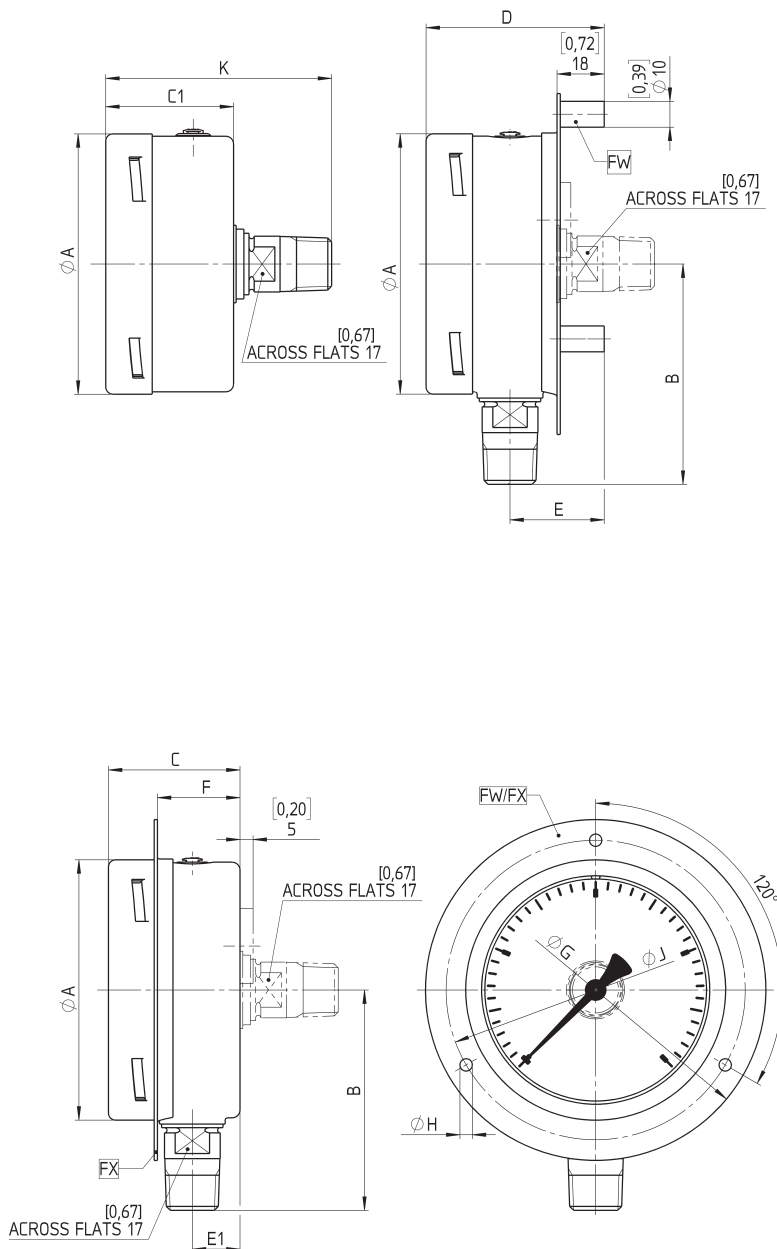
Ranges

| mbar | bar | kPa | MPa | kg/cm ² | mm H ₂ O | cm H ₂ O | in. H ₂ O | psi | mm Hg | in. Hg |
|------------|--------------|------------|--------------|--------------------|---------------------|---------------------|----------------------|------------|----------|------------|
| MB | BR | KP | MP | KSC | MMW | CMW | IW | PSI | MMHG | INHG |
| 16 | 0,06 | 1,6 | 0,01 | 0,06 | 160 | 16 | 6 | 1 | 12 | 0,5 |
| 25 | 0,1 | 2,5 | 0,016 | 0,1 | 250 | 25 | 10 | 1,5 | 20 | 0,8 |
| 40 | 0,16 | 4 | 0,025 | 0,16 | 400 | 40 | 15 | 2,5 | 30 | 1,2 |
| 60 | 0,25 | 6 | 0,04 | 0,25 | 600 | 60 | 25 | 4 | 50 | 1,6 |
| 100 | 0,4 | 10 | 0,06 | 0,4 | 1000 | 100 | 40 | 6 | 75 | 3 |
| 160 | 0,6 | 16 | -0,01/0 | 0,6 | 1600 | 160 | 60 | 8 | 125 | 5 |
| 250 | -0,06/0 | 25 | -0,016/0 | -0,06/0 | 2500 | 250 | 100 | -1/0 | 200 | 8 |
| 400 | -0,1/0 | 40 | -0,025/0 | -0,1/0 | 4000 | 400 | 150 | -1,5/0 | 300 | 12 |
| 600 | -0,16/0 | 60 | -0,04/0 | -0,16/0 | 6000 | 600 | 250 | -2,5/0 | 500 | 16 |
| -16/0 | -0,25/0 | -1,6/0 | -0,06/0 | -0,25/0 | -160/0 | -16/0 | -6/0 | -4/0 | -12/0 | -0,5/0 |
| -25/0 | -0,4/0 | -2,5/0 | -0,012/0,012 | -0,4/0 | -250/0 | -25/0 | -10/0 | -6/0 | -20/0 | -0,8/0 |
| -40/0 | -0,6/0 | -4/0 | -0,02/0,02 | -0,6/0 | -400/0 | -40/0 | -15/0 | -8/0 | -30/0 | -1,2/0 |
| -60/0 | -0,05/0,05 | -6/0 | -0,03/0,03 | -0,05/0,05 | -600/0 | -60/0 | -25/0 | -1,25/1,25 | -50/0 | -1,6/0 |
| -100/0 | -0,08/0,08 | -10/0 | | -0,08/0,08 | -1000/0 | -100/0 | -40/0 | -2/2 | -75/0 | -3/0 |
| -160/0 | -0,125/0,125 | -16/0 | | -0,125/0,125 | -1600/0 | -160/0 | -60/0 | -3/3 | -125/0 | -5/0 |
| -250/0 | -0,2/0,2 | -25/0 | | -0,2/0,2 | -2500/0 | -250/0 | -100/0 | -4/4 | -200/0 | -8/0 |
| -400/0 | -0,3/0,3 | -40/0 | | -0,3/0,3 | -4000/0 | -400/0 | -150/0 | | -300/0 | -12/0 |
| -600/0 | | -60/0 | | | -6000/0 | -600/0 | -250/0 | | -500/0 | -16/0 |
| -8/8 | | -0,8/0,8 | | | -80/80 | -8/8 | -5/5 | | -10/10 | -0,25/0,25 |
| -12,5/12,5 | | -1,25/1,25 | | | -125/125 | -12,5/12,5 | -8/8 | | -16/16 | -0,4/0,4 |
| -20/20 | | -2/2 | | | -200/200 | -20/20 | -12,5/12,5 | | -25/25 | -0,6/0,6 |
| -30/30 | | -3/3 | | | -300/300 | -30/30 | -20/20 | | -40/40 | -0,8/0,8 |
| -50/50 | | -5/5 | | | -500/500 | -50/50 | -30/30 | | -60/60 | -1,5/1,5 |
| -80/80 | | -8/8 | | | -800/800 | -80/80 | -50/50 | | -100/100 | -2,5/2,5 |
| -125/125 | | -12,5/12,5 | | | -1250/1250 | -125/125 | -75/75 | | -160/160 | -4/4 |
| -200/200 | | -20/20 | | | -2000/2000 | -200/200 | -125/125 | | -250/250 | -6/6 |
| -300/300 | | -30/30 | | | -3000/3000 | -300/300 | | | | -8/8 |

Other Ranges and engineering units available

GENERAL DIMENSIONS

■ Type N5500



| NG | A | B | C | C1 | D | E | E1 | F | G | H | J | K |
|--------|---------------|---------------|--------------|----------------|--------------|----------------|----------------|--------------|---------------|---------------|---------------|----------------|
| 100 mm | [3,97] 101 | [3,36] 85 | [2,01] 51 | [1,95] 49,5 | [2,72] 69 | [1,44] 36,5 | [0,73] 18,5 | [1,26] 32 | [5,20] 132 | [0,19] 4,8 | [4,57] 116 | [3,44] 87,5 |
| 160 mm | [6,35] 161 | [4,54] 115 | [1,96] 50 | [1,89] 48 | [2,76] 70 | [1,47] 37 | [0,67] 17 | [1,22] 31 | [7,72] 196 | [0,22] 5,5 | [7,01] 178 | [3,39] 86 |

Rev. A

ORDER EXAMPLE

■ Required parameters

Example: 100 N5500 S D 15 L 10 MB X YW

Dial Size

 (100) 100 mm
 (160) 160 mm
100
160

Model

(N5500) Open front capsule pressure gauge

N5500

Wetted Parts Material

(S) Stainless steel 316Ti (1.4571) / 316L (1.4404)

S

Case Filling

(D) Dry case

D

(L) Liquid filled case (1)

L

Process Connection

(02) ¼" NPT male

02

(03) ⅜" NPT male

03

(04) ½" NPT male

04

(13) G ¼ B male

13

(14) G ⅜ B male

14

(15) G ½ male

15

(16) M20x1,5 male

16

(KN) PF ½ B parallel pipe male (JIS B 0202)

KN

(KP) PF ⅜ B parallel pipe male (JIS B 0202)

KP

(KQ) R ½ DIN EN 10226-1 (½" BSPT (JIS B 0203)

KQ

(KR) R ⅜ DIN EN 10226-1 (⅜" BSPT (JIS B 0203)

KR

Connection Location

(C) Center-Back

C

(L) Lower

L

Range

see table RANGES

Engineering Unit

(MB) Engineering unit millibar

MB

Other engineering units available, see table RANGES

Notes: (1) for ranges ≥ 100 mbar only

ORDER EXAMPLE

■ Additional options; multiple options possible (Example: X=AN=EAC=CS=...)

Example: 100 N5500 S D 15 L 10 MB X YW

Accuracy

(AN) Special accuracy 1,0 % AN

Agency Approval

(EAC) Custom declaration EAC acc. to TP-TC 032/2013 EAC

Case Material

(YW) Case and ring material stainless steel 316L (1.4404) YW

Case And Ring

(FW) Wall mounting flange FW

(FX) Front flange tack welded to case FX

(UF) U-clamp with front flange tack welded to ring UF

Liquid filling

(GR) Glycerine 99,5% GR

(GV) Silicone GV

Dial

(CS) Combination range / Dual scale
(Outer Scale is dominant) CS

(E6) Dial pin in 6 o'clock position E6

(ON) Without Ashcroft logo, neutral ON

(SS) Special Scale ²⁾ SS

Pressure Rating

(HP) Overload protection 10-times F.S. (max. 2 bar) HP

Window

(PD) Polycarbonate window PD

(SG) Safety glass SG

Assembly

(MO) Instrument assembled to accessory MO

Cleaning

(6W) Cleaned "free of oil and grease" (no Oxygen service) 6W

(YF) Cleaned silicone free product YF

Marking And Tagging

(DA) Dial marking printed on dial (2) DA

(NH) Stainless steel tagging wired (2) NH

(NH1) Extra lage stainless steel tagging wired (120 x 30 x 1 mm) (2) NH1

Material Certificate

(CD2) Certificate according to EN 10204 2.2 CD2

(C3) Certificate according to EN 10204 3.1 C3

(MQ) Positive material certificate (PMI) MQ

Test Certificate

(C4) CD-4 calibration certificate C4

(C43) CD-4 calibration certificate option acc. to DIN EN 10204/3.1 C43

(HY) Hydrostatic pressure test HY

Notes: (2) Information is required by the customer