



GOST

Special Features

- Polypropylene case with SS measuring system
- Wetted parts AISI 316L stainless steel
- Accuracy $\pm 0.5\%$ F.S.
- Solid front design features baffle wall interposed between the sensing system, the window and a pressure relieving back for increased safety
- Standard followed ASME - B 40.100

Application

- Suitable for high pressure gas
- Corrosive / hazardous environment that will not obstruct the pressure system.

Specifications

Standard Version : 4 1/2"

| | | |
|--------------------------|---|---|
| Accuracy | : | $\pm 0.5\%$ F. S. (As per ASME B40.100) |
| Ambient temperature | : | - 20°C to + 65°C |
| Process temperature | : | Max 150°C |
| Operating pressure range | : | 75 % of Scale Value |
| Over pressure limit | : | ≤ 100 bar : 125% of Max. Scale Value |
| | : | > 100 to ≤ 600 bar : 115% of Max. Scale Value |
| | : | > 600 to ≤ 1600 bar : 110% of Max. Scale Value |

| | | |
|----------|---|--------------------------------------|
| Case | : | Fibre Glass Reinforced Polypropylene |
| Bourdon | : | AISI 316L SS |
| Socket | : | AISI 316L SS |
| Movement | : | AISI 304 SS |
| Joints | : | Tig Argon Arc Welding |

| | | |
|---------------|---|---|
| Protection | : | IP 65 |
| Dial | : | Aluminum, black graduation on white background |
| Pointer | : | Aluminum, black Colored, Micrometer Zero Adjustable |
| Window | : | Plexiglas |
| Blow off Disc | : | Fibre Glass Reinforced Polypropylene |
| Gasket | : | Compatible with glycerin or silicone |

Dry But Fillable Version (Standard)

| | | |
|---------------------------|---|---|
| Fillable Dampening Liquid | : | Glycerine 99.7% |
| Ambient Temperature | : | Maximum 65°C |
| Process Temperature | : | Maximum 65°C |
| Other Features | : | Refer Specification of Standard Version |

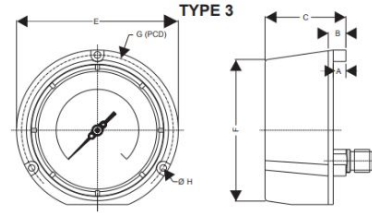
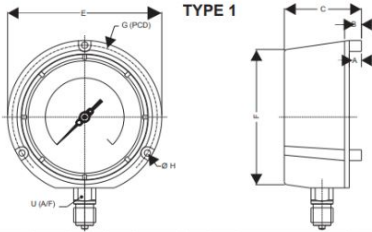
Glycerin Filled Version

| | | |
|---------------------|---|---|
| Accuracy | : | $\pm 1.0\%$ of F. S. |
| Ambient Temperature | : | Maximum 65°C |
| Process Temperature | : | Maximum 65°C |
| Dampening Liquids | : | Glycerin 99.7% |
| | : | (Others available as Option) |
| Other Features | : | Refer Specification of Standard Version |
| Protection | : | IP 65 |

Temperature effect:

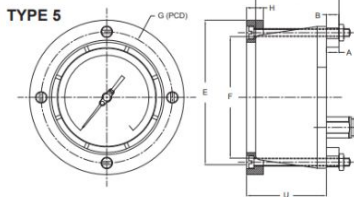
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula : $\pm 0.04 \times (t_2 - t_1) \%$ of F. S. where t_1 = reference temperature (+20°C) and t_2 = ambient temperature in °C.

Dimensions - standard version



| NS | A | B | C | E | F | G | H | U | Weight in gram (With Box) | Weight in gram (With Glycerin & Box) |
|--------|------|------|------|-----|-----|-------|---|----|---------------------------|--------------------------------------|
| 4 1/2" | 12.5 | 24.5 | 73.5 | 148 | 130 | 137.5 | 6 | 22 | 900.0 | 1300.00 |

| NS | A | B | C | E | F | G | H | U | Weight in gram (With Box) |
|--------|------|------|------|-----|-----|-------|---|----|---------------------------|
| 4 1/2" | 12.5 | 24.5 | 73.5 | 148 | 130 | 137.5 | 6 | 22 | 850.0 |



| NS | A | B | C | E | F | G | H | U | Weight in gram (With Box) |
|--------|------|------|------|-----|-----|-------|---|----|---------------------------|
| 4 1/2" | 12.5 | 24.5 | 73.5 | 148 | 130 | 137.5 | 6 | 22 | 1000.0 |

Notes : • Drawings are not to scale. • All Dimensions are in mm. • NS = Nominal Size
• H - Arrangement for Mounting type 1 • Weights mentioned are approximate and for standard product. • Weight can be different after selection of options.

Note : We offer National / International Scales like kPa, MPa, bar, psi, kg/cm² & Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. Following are the example tables for kg/cm² & psi scales

Pressure ranges

| Code | Bar | Code | kPa | Code | kg/cm ² | Code | psi |
|------|---------------------------|------|-----------------------------|------|---------------------------|------|-----------------------------|
| C59 | -1 ... 0 ³⁾ | D59 | -100 ... 0 ³⁾ | F59 | -1 ... 0 ³⁾ | H59 | -30" Hg ... 0 ³⁾ |
| C72 | -1 ... 0.6 | D72 | -100 ... 60 | F72 | -1 ... 0.6 | H73 | -30" Hg ... 15 |
| C74 | -1 ... 1.5 | D74 | -100 ... 150 | F74 | -1 ... 1.5 | H75 | -30" Hg ... 30 |
| C76 | -1 ... 3 | D76 | -100 ... 300 | F76 | -1 ... 3 | H2C | -30" Hg ... 60 |
| C77 | -1 ... 5 | D77 | -100 ... 500 | F77 | -1 ... 5 | H78 | -30" Hg ... 100 |
| C79 | -1 ... 9 | D79 | -100 ... 900 | F79 | -1 ... 9 | H79 | -30" Hg ... 150 |
| C81 | -1 ... 15 | D81 | -100 ... 1 500 | F81 | -1 ... 15 | H81 | -30" Hg ... 220 |
| C82 | -1 ... 24 | D82 | -100 ... 2 400 | F82 | -1 ... 24 | H82 | -30" Hg ... 300 |
| C12 | 0 ... 0.6 ²⁾ | D12 | 0 ... 60 ²⁾ | F12 | 0 ... 0.6 ²⁾ | H13 | 0 ... 10 ²⁾ |
| C15 | 0 ... 1 ³⁾ | D15 | 0 ... 100 ³⁾ | F15 | 0 ... 1 ³⁾ | H15 | 0 ... 15 ³⁾ |
| C16 | 0 ... 1.6 | D16 | 0 ... 160 | F16 | 0 ... 1.6 | H1C | 0 ... 20 |
| C18 | 0 ... 2.5 | D18 | 0 ... 250 | F18 | 0 ... 2.5 | H17 | 0 ... 30 |
| C19 | 0 ... 4 | D19 | 0 ... 400 | F19 | 0 ... 4 | H19 | 0 ... 60 |
| C20 | 0 ... 6 | D20 | 0 ... 600 | F20 | 0 ... 6 | H21 | 0 ... 100 |
| C22 | 0 ... 10 | D22 | 0 ... 1 000 | F22 | 0 ... 10 | H22 | 0 ... 160 |
| C24 | 0 ... 16 | D24 | 0 ... 1 600 | F24 | 0 ... 16 | H23 | 0 ... 200 |
| C26 | 0 ... 25 | D26 | 0 ... 2 500 | F26 | 0 ... 25 | H25 | 0 ... 300 |
| C27 | 0 ... 40 | D27 | 0 ... 4 000 | F27 | 0 ... 40 | H26 | 0 ... 400 |
| C29 | 0 ... 60 | D29 | 0 ... 6 000 | F29 | 0 ... 60 | H27 | 0 ... 600 |
| C31 | 0 ... 100 | D31 | 0 ... 10 000 | F31 | 0 ... 100 | H30 | 0 ... 1 000 |
| C33 | 0 ... 160 | D33 | 0 ... 16 000 | F33 | 0 ... 160 | H31 | 0 ... 1 500 |
| C35 | 0 ... 250 | D35 | 0 ... 25 000 | F35 | 0 ... 250 | H34 | 0 ... 3 000 |
| C38 | 0 ... 400 | D38 | 0 ... 40 000 | F38 | 0 ... 400 | H38 | 0 ... 6 000 |
| C39 | 0 ... 600 | D39 | 0 ... 60 000 | F39 | 0 ... 600 | H40 | 0 ... 10 000 |
| C41 | 0 ... 1 000 ¹⁾ | D41 | 0 ... 100 000 ¹⁾ | F41 | 0 ... 1 000 ¹⁾ | H41 | 0 ... 15 000 ¹⁾ |
| C42 | 0 ... 1 600 ¹⁾ | D42 | 0 ... 160 000 ¹⁾ | F42 | 0 ... 1 600 ¹⁾ | H1D | 0 ... 20 000 ¹⁾ |

Design and specifications subject to change without notice

| | | |
|---|---|-----|
| Basic Model | | AH |
| Code | | |
| Nominal Size | G | G |
| | 4 1/2" | 6 |
| Type of Mounting | | |
| A | Wall / surface / projection mounting with bottom entry | |
| E | Direct lower back entry (never fillable) | X |
| B | Lower back entry with front flange | |
| Gauge Connection | | |
| J | 3/8" BSP (M) | |
| 3 | 1/2" BSP (M) Standard | |
| 5 | 1/4" NPT (M) Standard | X |
| 6 | 1/2" NPT (M) Standard | |
| Liquid filling | | |
| Dry | | 0 |
| BH1: low viscosity glycerin/water 86% (medium : -20 ... +70°C) | | 1 |
| BH2: high viscosity glycerin 99.5% (medium : 0 ... +90°C) | | 2 |
| BH3: silicone oil (medium : -40 ... +100°C) | | 3 |
| BH4: silicone oil (medium : -60 ... +100°C) | | 4 |
| BH5: fluor carbon for oxygene use (160 bar max.) (-15 ... +100°C) | | 5 |
| Range | | XXX |
| Refer range table | | |
| Optional Extras | | |
| TF | Conformity as per NACE Standard | |
| TI | Monel Bourdon & socket (Monel version)** | |
| PW | Five point calibration certificate | |
| PU | Calibration certificate traceable to National / International standards | |
| RH | Custom designed dial | |
| SG | Oxygen service (for dry version) | |
| SF | Movement with dampening jelly | |
| QB | Integral dampening screw (AISI 316 SS) | XX |
| FL | Integral dampening screw (monel)** | |
| RX | Shatterproof/safety glass | |

AHG 6 - A 3 0 . C22 / - -

Polypropylene / Stainless steel

Nominal size 130 mm

Bottom connection, 3 back lugs fixing

Process connection G1/2

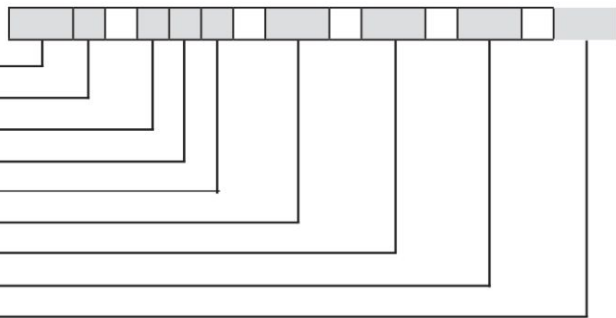
No liquid filling

Scale bar : 0 ... 10 bar

Option : Anti-vibration dampening movement

Option : Oxygen application

Option : Restrictor screw Ø 0.5



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