

Bourdon tube pressure gauge, copper alloy Heavy-duty version, case filling Model 213.40, NS 63 [2 ½"], 80 [3"] and 100 [4"]

WIKA data sheet PM 02.06



For further approvals,
see page 6

Applications

- For measuring locations with high dynamic pressure loads or vibrations
- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Mining industry
- Hydraulics
- Shipbuilding

Special features

- Especially robust design
- Vibration- and shock-resistant
- DNV approval for NS 63 [2 ½"] and 100 [4"] available as an option



Bourdon tube pressure gauge, model 213.40

Configurator



Standard articles



Description

The liquid-filled model 213.40 Bourdon tube pressure gauge is constructed with a forged brass case and wetted parts from copper alloy.

Scale ranges from 0 ... 0.6 to 0 ... 1,000 bar [0 ... 10 to 0 ... 15,000 psi].

Due to the case fill fluid, the measuring element and movement are efficiently damped. Therefore, these instruments are particularly suited to measuring locations with high dynamic loads, such as fast load cycles or vibrations.

WIKA manufactures and qualifies the pressure gauge in accordance with the standards EN 837-1 and ASME B40.100. As a safety function, this instrument has a blow-out device with blow-out plug on the top of the case. In the event of a failure, overpressure can escape there.

Specifications

| Basic information | | |
|-----------------------------------|---|---|
| Standard | <ul style="list-style-type: none"> ■ EN 837-1 ■ ASME B40.100 <p>→ For information on the "Selection, installation, handling and operation of pressure gauges", see technical information IN 00.05.</p> | |
| Nominal size (NS) | <ul style="list-style-type: none"> ■ Ø 63 mm [2 ½"] ■ Ø 80 mm [3"] ■ Ø 100 mm [4"] | |
| Connection location | <ul style="list-style-type: none"> ■ Lower mount (radial) ■ Centre back mount (only for NS 63 [2 ½"]) ■ Lower back mount (only for NS 80 [3"] and NS 100 [4"]) | |
| Window | <ul style="list-style-type: none"> ■ Acrylic glass (PMMA) ■ Laminated safety glass | |
| Case | | |
| Design | With blow-out device at case circumference, 12 o'clock For scale ranges ≤ 0 ... 16 bar [0 ... 250 psi] with equalising valve to vent and reseal case | |
| Material | Forged brass | |
| Surface | <ul style="list-style-type: none"> ■ Black painted ■ Natural finish ■ Chrome-plated (only for NS 63 [2 ½"] and NS 80 [3"]) ■ Silver painted (only for NS 63 [2 ½"] and NS 80 [3"]) ■ Brass-coloured (only for NS 63 [2 ½"] and NS 80 [3"]) | |
| Ring | Crimp ring, stainless steel | Natural finish (for all nominal sizes) |
| | Slip-on bezel, steel | <ul style="list-style-type: none"> ■ Black painted (only for NS 63 [2 ½"] and NS 100 [4"]) ■ Chrome-plated (only for NS 63 [2 ½"] and NS 80 [3"]) |
| | Slip-on bezel, brass | <ul style="list-style-type: none"> ■ Chrome-plated (only for NS 100 [4"]) ■ Polished (only for NS 100 [4"]) |
| Mounting | Without | |
| | Surface mounting flange, steel | Black |
| | Panel mounting flange, steel | <ul style="list-style-type: none"> ■ Chrome-plated (only for NS 63 [2 ½"] and NS 80 [3"]) ■ Black |
| | Panel mounting flange, brass | Chrome-plated (only for NS 80 [3"] and NS 100 [4"]) |
| | Triangular profile ring with mounting bracket, steel | <ul style="list-style-type: none"> ■ Chrome-plated, with clamp ■ Black, with clamp (only for NS 100 [4"]) |
| | Triangular profile ring with mounting bracket, polished stainless steel with clamp (only for NS 63 [2 ½"]) | |
| Case filling ¹⁾ | <ul style="list-style-type: none"> ■ Glycerine ²⁾ ■ Silicone oil | |
| Movement | Copper alloy | |

1) For operating conditions, see table on page 5

2) For low scale ranges the case filling is a glycerine-water mixture

| Measuring element | |
|----------------------------------|--|
| Type of measuring element | Bourdon tube, C-type or helical type |
| Material | |
| NS 63 [2 ½"] | Copper alloy |
| NS 80 [3"], NS 100 [4"] | <ul style="list-style-type: none"> ■ Copper alloy ■ Stainless steel 1.4571 (316Ti) or 1.4404 (316L) |
| Leak tightness | <ul style="list-style-type: none"> ■ Tested leakage rate: < 5 · 10⁻³ mbar l/s ■ Helium tested, leakage rate: < 1 · 10⁻⁵ mbar l/s |

| Accuracy specifications | | |
|-----------------------------|--|--|
| Accuracy class | | |
| NS 63 [2 ½"], NS 80 [3"] | ■ EN 837-1 | Class 1.6 |
| | ■ ASME B40.100 | ±2 % ±1 % ±2 % of measuring span (grade A) |
| NS 100 [4"] | ■ EN 837-1 | Class 1.0 |
| | ■ ASME B40.100 | ±1 % of measuring span (grade 1A) |
| Temperature error | On deviation from the reference conditions at the measuring system: ≤ ±0.4 % per 10 °C [≤ ±0.4 % per 18 °F] of full scale value | |
| Reference conditions | | |
| Ambient temperature | +20 °C [+68 °F] | |

Scale ranges

| bar | |
|-----------|-------------|
| 0 ... 0.6 | 0 ... 60 |
| 0 ... 1 | 0 ... 100 |
| 0 ... 1.6 | 0 ... 140 |
| 0 ... 2.5 | 0 ... 160 |
| 0 ... 4 | 0 ... 200 |
| 0 ... 6 | 0 ... 250 |
| 0 ... 10 | 0 ... 315 |
| 0 ... 16 | 0 ... 400 |
| 0 ... 25 | 0 ... 600 |
| 0 ... 30 | 0 ... 700 |
| 0 ... 40 | 0 ... 1,000 |

| kg/cm ² | |
|--------------------|-------------|
| 0 ... 0.6 | 0 ... 60 |
| 0 ... 1 | 0 ... 100 |
| 0 ... 1.6 | 0 ... 140 |
| 0 ... 2.5 | 0 ... 160 |
| 0 ... 4 | 0 ... 200 |
| 0 ... 6 | 0 ... 250 |
| 0 ... 10 | 0 ... 315 |
| 0 ... 16 | 0 ... 400 |
| 0 ... 25 | 0 ... 600 |
| 0 ... 30 | 0 ... 700 |
| 0 ... 40 | 0 ... 1,000 |

| kPa | |
|-------------|---------------|
| 0 ... 60 | 0 ... 6,000 |
| 0 ... 100 | 0 ... 10,000 |
| 0 ... 160 | 0 ... 14,000 |
| 0 ... 250 | 0 ... 16,000 |
| 0 ... 400 | 0 ... 20,000 |
| 0 ... 600 | 0 ... 25,000 |
| 0 ... 1,000 | 0 ... 31,500 |
| 0 ... 1,600 | 0 ... 40,000 |
| 0 ... 2,500 | 0 ... 60,000 |
| 0 ... 3,000 | 0 ... 70,000 |
| 0 ... 4,000 | 0 ... 100,000 |

| MPa | |
|------------|------------|
| 0 ... 0.06 | 0 ... 6 |
| 0 ... 0.1 | 0 ... 10 |
| 0 ... 0.16 | 0 ... 14 |
| 0 ... 0.25 | 0 ... 16 |
| 0 ... 0.4 | 0 ... 20 |
| 0 ... 0.6 | 0 ... 25 |
| 0 ... 1 | 0 ... 31.5 |
| 0 ... 1.6 | 0 ... 40 |
| 0 ... 2.5 | 0 ... 60 |
| 0 ... 3 | 0 ... 70 |
| 0 ... 4 | 0 ... 100 |

| psi | |
|-----------|--------------|
| 0 ... 10 | 0 ... 800 |
| 0 ... 15 | 0 ... 1,000 |
| 0 ... 30 | 0 ... 1,500 |
| 0 ... 60 | 0 ... 2,000 |
| 0 ... 100 | 0 ... 3,000 |
| 0 ... 150 | 0 ... 4,000 |
| 0 ... 160 | 0 ... 5,000 |
| 0 ... 200 | 0 ... 6,000 |
| 0 ... 250 | 0 ... 7,500 |
| 0 ... 300 | 0 ... 10,000 |
| 0 ... 400 | 0 ... 15,000 |
| 0 ... 600 | - |

Vacuum and compound scale ranges

| bar | |
|-------------|------------|
| -0.6 ... 0 | -1 ... +5 |
| -1 ... 0 | -1 ... +9 |
| -1 ... +0.6 | -1 ... +15 |
| -1 ... +1.5 | -1 ... +24 |
| -1 ... +3 | -1 ... +30 |

| kg/cm ² | |
|--------------------|------------|
| -0.6 ... 0 | -1 ... +5 |
| -1 ... 0 | -1 ... +9 |
| -1 ... +0.6 | -1 ... +15 |
| -1 ... +1.5 | -1 ... +24 |
| -1 ... +3 | -1 ... +30 |

| kPa | |
|---------------|-----------------|
| -60 ... 0 | -100 ... +500 |
| -100 ... 0 | -100 ... +900 |
| -100 ... +60 | -100 ... +1,500 |
| -100 ... +150 | -100 ... +2,400 |
| -100 ... +300 | -100 ... +3,000 |

| MPa | |
|----------------|---------------|
| -0.06 ... 0 | -0.1 ... +0.5 |
| -0.1 ... 0 | -0.1 ... +0.9 |
| -0.1 ... +0.06 | -0.1 ... +1.5 |
| -0.1 ... +0.15 | -0.1 ... +2.4 |
| -0.1 ... +0.3 | -0.1 ... +3 |

| psi | |
|------------------|-------------------|
| -15 inHg ... 0 | -30 inHg ... +100 |
| -30 inHg ... 0 | -30 inHg ... +160 |
| -30 inHg ... +15 | -30 inHg ... +200 |
| -30 inHg ... +30 | -30 inHg ... +300 |
| -30 inHg ... +60 | - |

→ Other scale ranges on request

| Further details on: scale ranges | |
|----------------------------------|---|
| Special scale ranges | → Other scale ranges on request |
| Unit | <ul style="list-style-type: none"> ■ bar ■ psi ■ kg/cm² ■ kPa ■ MPa |
| Dial | |
| Scale colour | Black |
| Material | Aluminium |
| Special scale | <ul style="list-style-type: none"> ■ Without ■ With temperature scale for refrigerant, e.g. for NH₃: R 717 <p>→ Other scales or customer-specific dials, e.g. with red mark, circular arcs or circular sectors, on request</p> |
| Pointer | |
| Instrument pointer | Aluminium, black |
| Mark pointer/drag pointer | <ul style="list-style-type: none"> ■ Without ■ Red mark pointer on dial, fixed ■ Red drag pointer on window, adjustable |
| Pointer stop pin | <ul style="list-style-type: none"> ■ Without ■ At zero point |

| Process connection | | |
|--------------------------|--|---|
| Standard | <ul style="list-style-type: none"> ■ EN 837-1 ■ ISO 7 ■ ANSI/B1.20.1 | |
| Size | | |
| EN 837-1 | <ul style="list-style-type: none"> ■ G 1/8 B, male thread ■ G 1/4 B, male thread ■ G 1/2 B, male thread ■ M10 x 1, male thread | |
| ISO 7 | <ul style="list-style-type: none"> ■ R 1/8, male thread ■ R 1/4, male thread ■ R 1/2, male thread | |
| ANSI/B1.20.1 | <ul style="list-style-type: none"> ■ 1/8 NPT, male thread ■ 1/4 NPT, male thread ■ 1/2 NPT, male thread | |
| Restrictor | <ul style="list-style-type: none"> ■ Without ■ Ø 0.3 mm [0.012"], brass ■ Ø 0.5 mm [0.02"], brass | |
| Material (wetted) | | |
| Process connection | Copper alloy | |
| Bourdon tube | NS 63 [2 1/2"] | Copper alloy |
| | NS 80 [3"], NS 100 [4"] | <ul style="list-style-type: none"> ■ Copper alloy ■ Stainless steel 1.4571 (316Ti) or 1.4404 (316L) |

→ Other process connections on request

| Operating conditions | | |
|---|----------------------------------|------------------------|
| Medium temperature | | |
| Instruments with glycerine filling | -20 ... +60 °C [-4 ... +140 °F] | |
| Unfilled instruments or with silicone oil filling | -40 ... +60 °C [-40 ... +140 °F] | |
| Ambient temperature | | |
| Instruments with glycerine filling | -20 ... +60 °C [-4 ... +140 °F] | |
| Unfilled instruments or with silicone oil filling | -40 ... +60 °C [-40 ... +140 °F] | |
| Pressure limitation | | |
| NS 63 [2 1/2"], NS 80 [3"] | Steady | 3/4 x full scale value |
| | Fluctuating | 2/3 x full scale value |
| | Short time | Full scale value |
| NS 100 [4"] | Steady | Full scale value |
| | Fluctuating | 0.9 x full scale value |
| | Short time | 1.3 x full scale value |
| Ingress protection per IEC/EN 60529 | IP65 | |

Approvals

| Logo | Description | Country |
|---|---|----------------|
|  | EU declaration of conformity Pressure equipment directive PS > 200 bar, module A, pressure accessory | European Union |
| - | CRN Safety (e.g. electr. safety, overpressure, ...) | Canada |

Optional approvals

| Logo | Description | Country |
|---|--|---------------|
|  | PAC Kazakhstan Metrology, measurement technology | Kazakhstan |
| - | MChS Permission for commissioning | Kazakhstan |
| - | PAC Ukraine Metrology, measurement technology | Ukraine |
|  | PAC Uzbekistan Metrology, measurement technology | Uzbekistan |
| - | PAC China Metrology, measurement technology | China |
|  | DNV Ships, shipbuilding (e.g. offshore) | International |

Manufacturer's declaration

| Logo | Description |
|------|---|
| - | Pressure Equipment Directive (PED) for maximum allowable pressure $PS \leq 200$ bar |

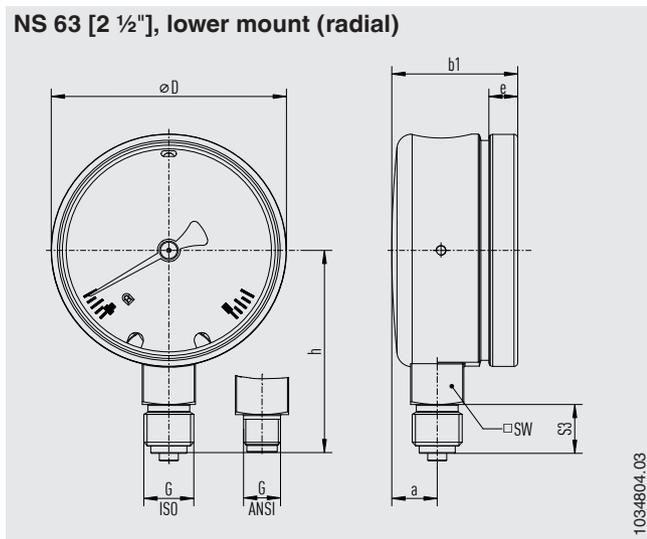
Certificates

| Description | |
|---|---|
| Certificates | <ul style="list-style-type: none"> ■ 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, indication accuracy) ■ 3.1 inspection certificate per EN 10204 (e.g. indication accuracy) |
| Recommended calibration interval | 1 year (dependent on conditions of use) |

→ For approvals and certificates, see website

Dimensions in mm [in]

NS 63 [2 1/2"], lower mount (radial)



| NS | Weight |
|-------------|-------------------|
| 63 [2 1/2"] | 0.36 kg [0.79 lb] |

Process connection with thread per EN 837-1

| NS | G | Dimensions in mm [in] | | | | | | |
|-------------|---------|-----------------------|-----------|-----------|-----------|----------------------|-----------|-----------|
| | | $h \pm 1$ [0.04] | S3 | e | a | $b_1 \pm 0.5$ [0.02] | D | SW |
| 63 [2 1/2"] | G 1/8 B | 51 [2.01] | 10 [0.39] | 7.6 [0.3] | 12 [0.47] | 34.5 [1.36] | 62 [2.44] | 14 [0.55] |
| | G 1/4 B | 53.8 [2.12] | 13 [0.51] | 7.6 [0.3] | 12 [0.47] | 34.5 [1.36] | 62 [2.44] | 14 [0.55] |
| | M10 x 1 | 51 [2.01] | 10 [0.39] | 7.6 [0.3] | 12 [0.47] | 34.5 [1.36] | 62 [2.44] | 14 [0.55] |

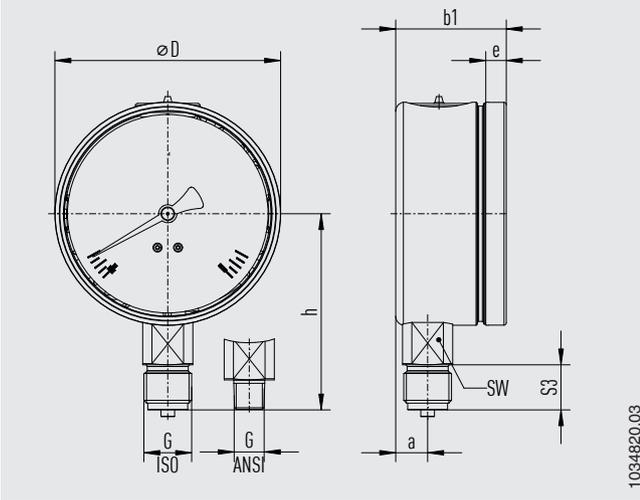
Process connection with thread per ISO 7

| NS | G | Dimensions in mm [in] | | | | | | |
|-------------|-------|-----------------------|-----------|-----------|-----------|----------------------|-----------|-----------|
| | | $h \pm 1$ [0.04] | S3 | e | a | $b_1 \pm 0.5$ [0.02] | D | SW |
| 63 [2 1/2"] | R 1/8 | 51 [2.01] | 10 [0.39] | 7.6 [0.3] | 12 [0.47] | 34.5 [1.36] | 62 [2.44] | 14 [0.55] |
| | R 1/4 | 53.8 [2.12] | 13 [0.51] | 7.6 [0.3] | 12 [0.47] | 34.5 [1.36] | 62 [2.44] | 14 [0.55] |

Process connection with thread per ANSI/B1.20.1

| NS | G | Dimensions in mm [in] | | | | | | |
|-------------|---------|-----------------------|-----------|-----------|-----------|----------------------|-----------|-----------|
| | | $h \pm 1$ [0.04] | S3 | e | a | $b_1 \pm 0.5$ [0.02] | D | SW |
| 63 [2 1/2"] | 1/8 NPT | 51 [2.01] | 10 [0.39] | 7.6 [0.3] | 12 [0.47] | 34.5 [1.36] | 62 [2.44] | 14 [0.55] |
| | 1/4 NPT | 53.8 [2.12] | 13 [0.51] | 7.6 [0.3] | 12 [0.47] | 34.5 [1.36] | 62 [2.44] | 14 [0.55] |

NS 80 [3"] and NS 100 [4"], lower mount (radial)



| NS | Weight |
|----------|------------------|
| 80 [3"] | 0.8 kg [1.75 lb] |
| 100 [4"] | 1.13 kg [2.5 lb] |

Process connection with thread per EN 837-1

| NS | G | Dimensions in mm [in] | | | | | | |
|----------|-------|-----------------------|-----------|-----------|------------|----------------------|-----------|-----------|
| | | $h \pm 1$ [0.04] | S3 | a | e | $b_1 \pm 0.5$ [0.02] | D | SW |
| 80 [3"] | G ¼ B | 69 [2.72] | 13 [0.51] | 14 [0.55] | 8.8 [0.35] | 37.7 [1.48] | 79 [3.11] | 22 [0.87] |
| | G ½ B | 76 [2.99] | 20 [0.79] | 14 [0.55] | 8.8 [0.35] | 37.7 [1.48] | 79 [3.11] | 22 [0.87] |
| 100 [4"] | G ¼ B | 80 [3.15] | 13 [0.51] | 14 [0.55] | 9 [0.35] | 48.5 [1.91] | 99 [3.9] | 22 [0.87] |
| | G ½ B | 87 [3.43] | 20 [0.79] | 14 [0.55] | 9 [0.35] | 48.5 [1.91] | 99 [3.9] | 22 [0.87] |

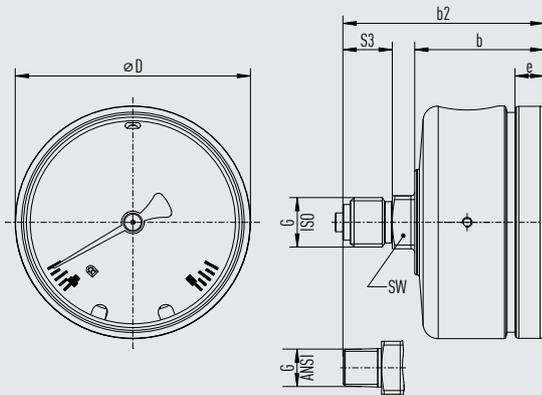
Process connection with thread per ISO 7

| NS | G | Dimensions in mm [in] | | | | | | |
|----------|-----|-----------------------|-----------|-----------|------------|----------------------|-----------|-----------|
| | | $h \pm 1$ [0.04] | S3 | a | e | $b_1 \pm 0.5$ [0.02] | D | SW |
| 80 [3"] | R ¼ | 69 [2.72] | 13 [0.51] | 14 [0.55] | 8.8 [0.35] | 37.7 [1.48] | 79 [3.11] | 22 [0.87] |
| | R ½ | 75 [2.95] | 19 [0.75] | 14 [0.55] | 8.8 [0.35] | 37.7 [1.48] | 79 [3.11] | 22 [0.87] |
| 100 [4"] | R ¼ | 80 [3.15] | 13 [0.51] | 14 [0.55] | 9 [0.35] | 48.5 [1.91] | 99 [3.9] | 22 [0.87] |
| | R ½ | 86 [3.39] | 19 [0.75] | 14 [0.55] | 9 [0.35] | 48.5 [1.91] | 99 [3.9] | 22 [0.87] |

Process connection with thread per ANSI/B1.20.1

| NS | G | Dimensions in mm [in] | | | | | | |
|----------|-------|-----------------------|-----------|-----------|------------|----------------------|-----------|-----------|
| | | $h \pm 1$ [0.04] | S3 | a | e | $b_1 \pm 0.5$ [0.02] | D | SW |
| 80 [3"] | ¼ NPT | 69 [2.72] | 13 [0.51] | 14 [0.55] | 8.8 [0.35] | 37.7 [1.48] | 79 [3.11] | 22 [0.87] |
| | ½ NPT | 75 [2.95] | 19 [0.75] | 14 [0.55] | 8.8 [0.35] | 37.7 [1.48] | 79 [3.11] | 22 [0.87] |
| 100 [4"] | ¼ NPT | 80 [3.15] | 13 [0.51] | 14 [0.55] | 9 [0.35] | 48.5 [1.91] | 99 [3.9] | 22 [0.87] |
| | ½ NPT | 86 [3.39] | 19 [0.75] | 14 [0.55] | 9 [0.35] | 48.5 [1.91] | 99 [3.9] | 22 [0.87] |

NS 63 [2 ½"], centre back mount



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| NS | Weight |
|-----------|-------------------|
| 63 [2 ½"] | 0.36 kg [0.79 lb] |

Process connection with thread per EN 837-1

| NS | G | Dimensions in mm [in] | | | | | |
|-----------|---------|-----------------------|---------------|-----------|-----------|-----------|-----------|
| | | b2 ±0.5 [0.02] | b ±0.5 [0.02] | S3 | e | D | SW |
| 63 [2 ½"] | G ⅜ B | 49.9 [1.97] | 34 [1.34] | 10 [0.39] | 7.6 [0.3] | 62 [2.44] | 14 [0.55] |
| | G ¼ B | 52.9 [2.08] | 34 [1.34] | 13 [0.51] | 7.6 [0.3] | 62 [2.44] | 14 [0.55] |
| | M10 x 1 | 49.9 [1.97] | 34 [1.34] | 10 [0.39] | 7.6 [0.3] | 62 [2.44] | 14 [0.55] |

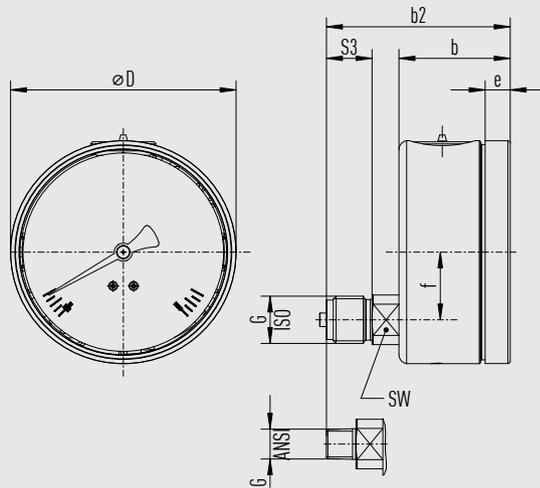
Process connection with thread per ISO 7

| NS | G | Dimensions in mm [in] | | | | | |
|-----------|-----|-----------------------|---------------|-----------|-----------|-----------|-----------|
| | | b2 ±0.5 [0.02] | b ±0.5 [0.02] | S3 | e | D | SW |
| 63 [2 ½"] | R ⅜ | 49.9 [1.97] | 34 [1.34] | 10 [0.39] | 7.6 [0.3] | 62 [2.44] | 14 [0.55] |
| | R ¼ | 52.9 [2.08] | 34 [1.34] | 13 [0.51] | 7.6 [0.3] | 62 [2.44] | 14 [0.55] |

Process connection with thread per ANSI/B1.20.1

| NS | G | Dimensions in mm [in] | | | | | |
|-----------|-------|-----------------------|---------------|-----------|-----------|-----------|-----------|
| | | b2 ±0.5 [0.02] | b ±0.5 [0.02] | S3 | e | D | SW |
| 63 [2 ½"] | ⅜ NPT | 49.9 [1.97] | 34 [1.34] | 10 [0.39] | 7.6 [0.3] | 62 [2.44] | 14 [0.55] |
| | ¼ NPT | 52.9 [2.08] | 34 [1.34] | 13 [0.51] | 7.6 [0.3] | 62 [2.44] | 14 [0.55] |

NS 80 [3"] and NS 100 [4"], lower back mount



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| NS | Weight |
|----------|------------------|
| 80 [3"] | 0.8 kg [1.75 lb] |
| 100 [4"] | 1.13 kg [2.5 lb] |

Process connection with thread per EN 837-1

| NS | G | Dimensions in mm [in] | | | | | |
|----------|-------|-----------------------|--------------------|-----------|------------|-----------|-----------|
| | | $b2 \pm 0.5$ [0.02] | $b \pm 0.5$ [0.02] | S3 | e | D | SW |
| 80 [3"] | G ¼ B | 61.7 [2.43] | 37.7 [1.48] | 13 [0.51] | 8.8 [0.35] | 79 [3.11] | 22 [0.87] |
| | G ½ B | 68.7 [2.7] | 37.7 [1.48] | 20 [0.79] | 8.8 [0.35] | 79 [3.11] | 22 [0.87] |
| 100 [4"] | G ¼ B | 73.6 [2.9] | 48.8 [1.92] | 13 [0.51] | 11 [0.43] | 99 [3.9] | 22 [0.87] |
| | G ½ B | 80.6 [3.17] | 48.8 [1.92] | 20 [0.79] | 11 [0.43] | 99 [3.9] | 22 [0.87] |

Process connection with thread per ISO 7

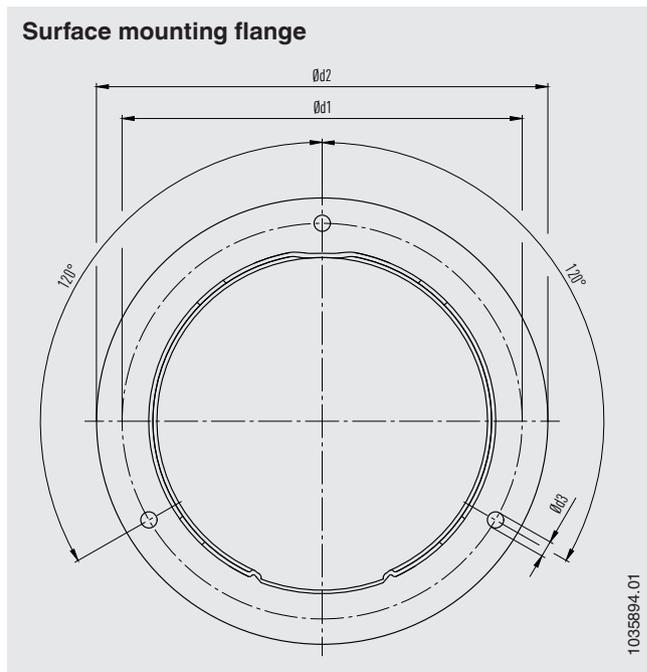
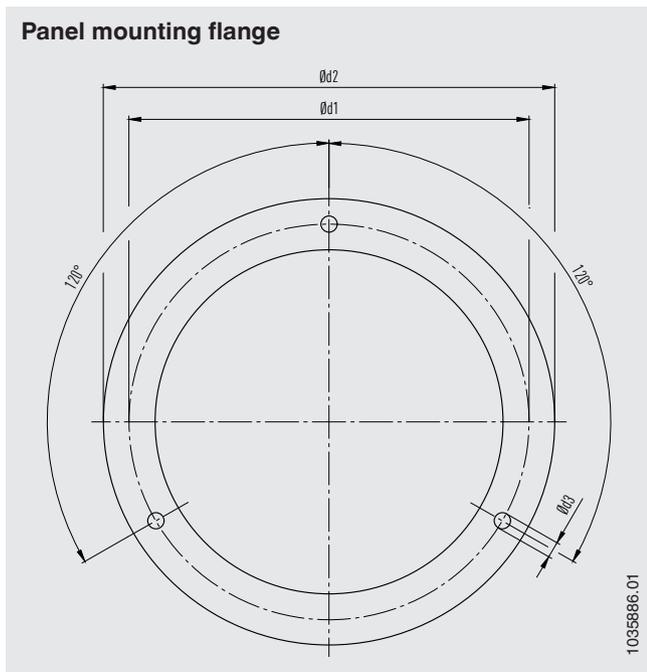
| NS | G | Dimensions in mm [in] | | | | | |
|----------|-----|-----------------------|--------------------|-----------|------------|-----------|-----------|
| | | $b2 \pm 0.5$ [0.02] | $b \pm 0.5$ [0.02] | S3 | e | D | SW |
| 80 [3"] | R ¼ | 61.7 [2.43] | 37.7 [1.48] | 13 [0.51] | 8.8 [0.35] | 79 [3.11] | 22 [0.87] |
| | R ½ | 67.7 [2.67] | 37.7 [1.48] | 19 [0.75] | 8.8 [0.35] | 79 [3.11] | 22 [0.87] |
| 100 [4"] | R ¼ | 73.6 [2.9] | 48.8 [1.92] | 13 [0.51] | 11 [0.43] | 99 [3.9] | 22 [0.87] |
| | R ½ | 79.6 [3.13] | 48.8 [1.92] | 19 [0.75] | 11 [0.43] | 99 [3.9] | 22 [0.87] |

Process connection with thread per ANSI/B1.20.1

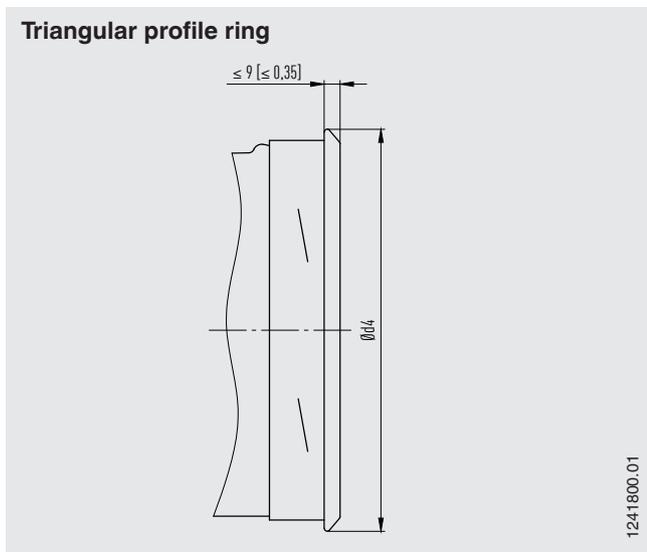
| NS | G | Dimensions in mm [in] | | | | | |
|----------|-------|-----------------------|--------------------|-----------|------------|-----------|-----------|
| | | $b2 \pm 0.5$ [0.02] | $b \pm 0.5$ [0.02] | S3 | e | D | SW |
| 80 [3"] | ¼ NPT | 61.7 [2.43] | 37.7 [1.48] | 13 [0.51] | 8.8 [0.35] | 79 [3.11] | 22 [0.87] |
| | ½ NPT | 67.7 [2.67] | 37.7 [1.48] | 19 [0.75] | 8.8 [0.35] | 79 [3.11] | 22 [0.87] |
| 100 [4"] | ¼ NPT | 73.6 [2.9] | 48.8 [1.92] | 13 [0.51] | 11 [0.43] | 99 [3.9] | 22 [0.87] |
| | ½ NPT | 79.6 [3.13] | 48.8 [1.92] | 19 [0.75] | 11 [0.43] | 99 [3.9] | 22 [0.87] |

Accessories

Dimensions in mm [in]



| NS | Dimensions in mm [in] | | | |
|-----------|--------------------------|------------|------------|------------|
| | Recommended panel cutout | d1 | d2 | d3 |
| 63 [2 ½"] | 67 ±0.3 [2.64 ±0.01] | 75 [2.95] | 85 [3.35] | 3.6 [0.14] |
| 80 [3"] | 84 ±0.3 [3.31 ±0.01] | 95 [3.74] | 110 [4.33] | 4.8 [0.19] |
| 100 [4"] | 104 ±0.5 [4.09 ±0.02] | 117 [4.61] | 132 [5.2] | 4.8 [0.19] |



| NS | Dimensions in mm [in] | |
|-----------|--------------------------|----------------|
| | Recommended panel cutout | d4 |
| 63 [2 ½"] | 64.5 +0.5 [2.54 +0.02] | ≤ 68 [≤ 2.68] |
| 80 [3"] | 82 +1 [3.23 +0.04] | ≤ 87 [≤ 3.43] |
| 100 [4"] | 102 +1 [4.02 +0.04] | ≤ 108 [≤ 4.25] |

Accessories and spare parts

| Model | Description |
|---|---|
|  | 910.17 Seals → See data sheet AC 09.08 |
|  | 910.15 Syphons → See data sheet AC 09.06 |
|  | 910.13 Overpressure protector → See data sheet AC 09.04 |
|  | IV1 Needle valve and multiport needle valve → See data sheet AC 09.22 |
|  | IV2 Block-and-bleed valve → See data sheet AC 09.19 |
|  | IVM Monoflange, process and instrument version → See data sheet AC 09.17 |
|  | BV Ball valve, process and instrument version → See data sheet AC 09.28 |
|  | IBF2, IBF3 Monoblock with flange connection → See data sheet AC 09.25 |

Ordering information

Model / Nominal size / Scale range / Process connection /
 Connection location / Options



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