

# Capsule pressure gauge, copper alloy or stainless steel

## Edgewise panel design

### Models 614.11 and 634.11

WIKA data sheet PM 06,05



For further approvals,  
see page 7

#### Applications

- For pressure indication in control rooms
- For gaseous, dry and non-aggressive media
- Model 614.11 with wetted parts from copper alloy, for non-aggressive media
- Model 634.11 with wetted parts from stainless steel, for aggressive media

#### Special features

- Panel mounting with dimensions per DIN IEC 61554 from 72 x 72 mm [2.84 x 2.84"] to 144 x 144 mm [5.67 x 5.67"]
- Low scale ranges from 0 ... 2.5 mbar to 0 ... 600 mbar or 0 ... 1 inH<sub>2</sub>O to 0 ... 240 inH<sub>2</sub>O
- Zero point setting possible



Capsule pressure gauge, model 614.11

#### Description

The models 614.11 and 634.11 capsule pressure gauges are based upon the proven capsule measuring system. The capsule element measurement principle is suitable for very low pressures. On pressurisation, the expansion of the capsule element, proportional to the incident pressure, is transmitted to the movement and indicated.

The modular design enables a multitude of combinations of case materials, process connections, nominal sizes and scale ranges.

Due to this wide range of variants the edgewise panel design instrument is suitable for use in the most varied control panel applications.

The scale ranges of 0 ... 2.5 mbar to 0 ... 600 mbar or 0 ... 1 inH<sub>2</sub>O to 0 ... 240 inH<sub>2</sub>O and the vacuum and +/- scale ranges ensure the measuring ranges required for a wide variety of applications.

## Specifications

| Basic information                                                        |                                                                                                                                                                                                              |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard                                                                 | In line with EN 837-3, dimensions per DIN IEC 61554                                                                                                                                                          |
|                                                                          | → For information on the "Selection, installation, handling and operation of pressure gauges", see technical information IN 00.05                                                                            |
| Further version                                                          | <ul style="list-style-type: none"> <li>■ Oil- and grease-free</li> <li>■ Oil- and grease-free for oxygen</li> </ul>                                                                                          |
| Nominal size (NS)                                                        | <ul style="list-style-type: none"> <li>■ 72 x 72 mm [2.84 x 2.84"]</li> <li>■ 96 x 96 mm [3.78 x 3.78"]</li> <li>■ 144 x 72 mm [5.67 x 2.84"]</li> <li>■ 144 x 144 mm [5.67 x 5.67"]<sup>1)</sup></li> </ul> |
| Connection location                                                      |                                                                                                                                                                                                              |
| NS 72 x 72 [2.84 x 2.84], 96 x 96 [3.78 x 3.78]                          | Centre back mount                                                                                                                                                                                            |
| NS 144 x 72 [5.67 x 2.84], 144 x 144 [5.67 x 5.67]                       | Lower back mount                                                                                                                                                                                             |
| Window                                                                   | <ul style="list-style-type: none"> <li>■ Instrument glass<sup>2)</sup></li> <li>■ Acrylic glass<sup>3)</sup></li> </ul>                                                                                      |
| Case                                                                     |                                                                                                                                                                                                              |
| NS 72 x 72 [2.84 x 2.84], 96 x 96 [3.78 x 3.78], 144 x 144 [5.67 x 5.67] | Steel, galvanised                                                                                                                                                                                            |
| NS 144 x 72 [5.67 x 2.84]                                                | Steel, black                                                                                                                                                                                                 |
| Panel frame                                                              | Steel, black, narrow, snap-fit                                                                                                                                                                               |
| Mounting                                                                 | Mounting bracket                                                                                                                                                                                             |
|                                                                          | → For information on "Mounting types, mounting flanges, panel cutouts", see technical information IN 00.04                                                                                                   |
| Movement                                                                 | Copper alloy                                                                                                                                                                                                 |

1) Only available for model 614.11

2) Not available for NS 144 x 144 [5.67 x 5.67]

3) Not available for NS 144 x 72 [5.67 x 2.84]

| Measuring element         |                                                                                                                   |                                    |
|---------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Type of measuring element | Capsule element                                                                                                   |                                    |
| Material (wetted)         |                                                                                                                   |                                    |
| Capsule element           | Model 614.11                                                                                                      | Copper alloy                       |
|                           | Model 634.11                                                                                                      | Stainless steel 316L <sup>1)</sup> |
| Seal                      | Model 614.11                                                                                                      | NBR                                |
|                           | Model 634.11                                                                                                      | FPM/FKM                            |
| Process connection        | Model 614.11                                                                                                      | Copper alloy                       |
|                           | Model 634.11                                                                                                      | Stainless steel 316L <sup>1)</sup> |
| Leak tightness            | ■ Leakage rate: < 1 · 10 <sup>-3</sup> mbar l/s<br>■ Helium tested, leakage rate: < 1 · 10 <sup>-5</sup> mbar l/s |                                    |

1) Not available for NS 144 x 144 [5.67 x 5.67]

| Accuracy specifications                  |                                                                                                                                                                                                    |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy class                           |                                                                                                                                                                                                    |
| EN 837-3                                 | ■ Class 1.6                                                                                                                                                                                        |
| ASME B40.100                             | ■ $\pm 2\%$   $\pm 1\%$   $\pm 2\%$ of measuring span (grade A)                                                                                                                                    |
| Zero point setting with adjustment screw |                                                                                                                                                                                                    |
| Instrument glass                         | In front, after removing the panel frame with window                                                                                                                                               |
| Acrylic glass                            | In front, through the opening in the window                                                                                                                                                        |
| NS 144 x 72                              | Rear                                                                                                                                                                                               |
| Temperature error                        | On deviation from the reference conditions at the measuring system:<br>$\leq \pm 0.6\%$ per $10\text{ }^{\circ}\text{C}$ [ $\leq \pm 0.6\%$ per $18\text{ }^{\circ}\text{F}$ ] of full scale value |
| Reference conditions                     |                                                                                                                                                                                                    |
| Ambient temperature                      | $+20\text{ }^{\circ}\text{C}$ [ $+68\text{ }^{\circ}\text{F}$ ]                                                                                                                                    |

## Scale ranges

| NS                      | Smallest possible span in mbar |              |
|-------------------------|--------------------------------|--------------|
|                         | Model 614.11                   | Model 634.11 |
| 72 x 72 [2.84 x 2.84]   | 25                             | 40           |
| 96 x 96 [3.78 x 3.78]   | 10                             | 40           |
| 144 x 72 [5.67 x 2.84]  | 4                              | 2.5          |
| 144 x 144 [5.67 x 5.67] | 6                              | -            |

| mbar      |           |
|-----------|-----------|
| 0 ... 2.5 | 0 ... 60  |
| 0 ... 4   | 0 ... 100 |
| 0 ... 6   | 0 ... 160 |
| 0 ... 10  | 0 ... 250 |
| 0 ... 16  | 0 ... 400 |
| 0 ... 25  | 0 ... 600 |
| 0 ... 40  | -         |

| kg/cm <sup>2</sup> |            |
|--------------------|------------|
| 0 ... 0.0025       | 0 ... 0.06 |
| 0 ... 0.004        | 0 ... 0.1  |
| 0 ... 0.006        | 0 ... 0.16 |
| 0 ... 0.01         | 0 ... 0.25 |
| 0 ... 0.016        | 0 ... 0.4  |
| 0 ... 0.025        | 0 ... 0.6  |
| 0 ... 0.04         | -          |

| kPa        |          |
|------------|----------|
| 0 ... 0.25 | 0 ... 6  |
| 0 ... 0.4  | 0 ... 10 |
| 0 ... 0.6  | 0 ... 16 |
| 0 ... 1    | 0 ... 25 |
| 0 ... 1.6  | 0 ... 40 |
| 0 ... 2.5  | 0 ... 60 |
| 0 ... 4    | -        |

| Pa          |              |
|-------------|--------------|
| 0 ... 250   | 0 ... 6,000  |
| 0 ... 400   | 0 ... 10,000 |
| 0 ... 600   | 0 ... 16,000 |
| 0 ... 1,000 | 0 ... 25,000 |
| 0 ... 1,600 | 0 ... 40,000 |
| 0 ... 2,500 | 0 ... 60,000 |
| 0 ... 4,000 | -            |

| psi         |           |
|-------------|-----------|
| 0 ... 0.036 | 0 ... 1.0 |
| 0 ... 0.06  | 0 ... 1.5 |
| 0 ... 0.1   | 0 ... 2.5 |
| 0 ... 0.15  | 0 ... 3.6 |
| 0 ... 0.25  | 0 ... 6.0 |
| 0 ... 0.36  | 0 ... 10  |
| 0 ... 0.6   | -         |

| mmH <sub>2</sub> O |             |
|--------------------|-------------|
| 0 ... 25           | 0 ... 600   |
| 0 ... 40           | 0 ... 1,000 |
| 0 ... 60           | 0 ... 1,600 |
| 0 ... 100          | 0 ... 2,500 |
| 0 ... 160          | 0 ... 4,000 |
| 0 ... 250          | 0 ... 6,000 |
| 0 ... 400          | -           |

| inH <sub>2</sub> O |           |
|--------------------|-----------|
| 0 ... 1            | 0 ... 24  |
| 0 ... 1.6          | 0 ... 40  |
| 0 ... 2.4          | 0 ... 60  |
| 0 ... 4            | 0 ... 100 |
| 0 ... 6            | 0 ... 160 |
| 0 ... 10           | 0 ... 240 |
| 0 ... 16           | -         |

| oz/in <sup>2</sup> |           |
|--------------------|-----------|
| 0 ... 0.6          | 0 ... 15  |
| 0 ... 1            | 0 ... 25  |
| 0 ... 1.5          | 0 ... 40  |
| 0 ... 2.5          | 0 ... 60  |
| 0 ... 4            | 0 ... 100 |
| 0 ... 6            | 0 ... 150 |
| 0 ... 10           | -         |

### Vacuum and compound scale ranges

| mbar       |                 |
|------------|-----------------|
| -2.5 ... 0 | -1.25 ... +1.25 |
| -4 ... 0   | -2 ... +2       |
| -6 ... 0   | -3 ... +3       |
| -10 ... 0  | -5 ... +5       |
| -16 ... 0  | -8 ... +8       |
| -25 ... 0  | -12.5 ... +12.5 |
| -40 ... 0  | -20 ... +20     |
| -60 ... 0  | -30 ... +30     |
| -100 ... 0 | -50 ... +50     |
| -160 ... 0 | -80 ... +80     |
| -250 ... 0 | -125 ... +125   |
| -400 ... 0 | -200 ... +200   |
| -600 ... 0 | -300 ... +300   |

| kg/cm <sup>2</sup> |                       |
|--------------------|-----------------------|
| -0.0025 ... 0      | -0.00125 ... +0.00125 |
| -0.004 ... 0       | -0.002 ... +0.002     |
| -0.006 ... 0       | -0.003 ... +0.003     |
| -0.01 ... 0        | -0.005 ... +0.005     |
| -0.016 ... 0       | -0.008 ... +0.008     |
| -0.025 ... 0       | -0.0125 ... +0.0125   |
| -0.04 ... 0        | -0.02 ... +0.02       |
| -0.06 ... 0        | -0.03 ... +0.03       |
| -0.1 ... 0         | -0.05 ... +0.05       |
| -0.16 ... 0        | -0.08 ... +0.08       |
| -0.25 ... 0        | -0.125 ... +0.125     |
| -0.4 ... 0         | -0.2 ... +0.2         |
| -0.6 ... 0         | -0.3 ... +0.3         |

| kPa         |                   |
|-------------|-------------------|
| -0.25 ... 0 | -0.125 ... +0.125 |
| -0.4 ... 0  | -0.2 ... +0.2     |
| -0.6 ... 0  | -0.3 ... +0.3     |
| -1 ... 0    | -0.5 ... +0.5     |
| -1.6 ... 0  | -0.8 ... +0.8     |
| -2.5 ... 0  | -1.25 ... +1.25   |
| -4 ... 0    | -2 ... +2         |
| -6 ... 0    | -3 ... +3         |
| -10 ... 0   | -5 ... +5         |
| -16 ... 0   | -8 ... +8         |
| -25 ... 0   | -12.5 ... +12.5   |
| -40 ... 0   | -20 ... +20       |
| -60 ... 0   | -30 ... +30       |

| Pa            |                     |
|---------------|---------------------|
| -250 ... 0    | -125 ... +125       |
| -400 ... 0    | -200 ... +200       |
| -600 ... 0    | -300 ... +300       |
| -1,000 ... 0  | -500 ... +500       |
| -1,600 ... 0  | -800 ... +800       |
| -2,500 ... 0  | -1,250 ... +1,250   |
| -4,000 ... 0  | -2,000 ... +2,000   |
| -6,000 ... 0  | -3,000 ... +3,000   |
| -10,000 ... 0 | -5,000 ... +5,000   |
| -16,000 ... 0 | -8,000 ... +8,000   |
| -25,000 ... 0 | -12,500 ... +12,500 |
| -40,000 ... 0 | -20,000 ... +20,000 |
| -60,000 ... 0 | -30,000 ... +30,000 |

| psi          |                   |
|--------------|-------------------|
| -0.036 ... 0 | -0.018 ... +0.018 |
| -0.06 ... 0  | -0.03 ... +0.03   |
| -0.1 ... 0   | -0.05 ... +0.05   |
| -0.15 ... 0  | -0.075 ... +0.075 |
| -0.25 ... 0  | -0.125 ... +0.125 |
| -0.36 ... 0  | -0.18 ... +0.18   |
| -0.6 ... 0   | -0.3 ... +0.3     |
| -1 ... 0     | -0.5 ... +0.5     |
| -1.5 ... 0   | -0.75 ... +0.75   |
| -2.5 ... 0   | -1.25 ... +1.25   |
| -3.6 ... 0   | -1.8 ... +1.8     |
| -6 ... 0     | -3 ... +3         |
| -10 ... 0    | -5 ... +5         |

| mmH <sub>2</sub> O |                   |
|--------------------|-------------------|
| -25 ... 0          | -12.5 ... +12.5   |
| -40 ... 0          | -20 ... +20       |
| -60 ... 0          | -30 ... +30       |
| -100 ... 0         | -50 ... +50       |
| -160 ... 0         | -80 ... +80       |
| -250 ... 0         | -125 ... +125     |
| -400 ... 0         | -200 ... +200     |
| -600 ... 0         | -300 ... +300     |
| -1,000 ... 0       | -500 ... +500     |
| -1,600 ... 0       | -800 ... +800     |
| -2,500 ... 0       | -1,250 ... +1,250 |
| -4,000 ... 0       | -2,000 ... +2,000 |
| -6,000 ... 0       | -3,000 ... +3000  |

| inH <sub>2</sub> O |               |
|--------------------|---------------|
| -1 ... 0           | -0.5 ... +0.5 |
| -1.6 ... 0         | -0.8 ... +0.8 |
| -2.4 ... 0         | -1.2 ... +1.2 |
| -4 ... 0           | -2 ... +2     |
| -6 ... 0           | -3 ... +3     |
| -10 ... 0          | -5 ... +5     |
| -16 ... 0          | -8 ... +8     |
| -24 ... 0          | -12 ... +12   |
| -40 ... 0          | -20 ... +20   |
| -60 ... 0          | -30 ... +30   |
| -100 ... 0         | -50 ... +50   |
| -160 ... 0         | -80 ... +80   |
| -240 ... 0         | -120 ... +120 |

| oz/in <sup>2</sup> |                 |
|--------------------|-----------------|
| -0.6 ... 0         | -0.3 ... +0.3   |
| -1 ... 0           | -0.5 ... +0.5   |
| -1.5 ... 0         | -0.75 ... +0.75 |
| -2.5 ... 0         | -1.25 ... +1.25 |
| -4 ... 0           | -2 ... +2       |
| -6 ... 0           | -3 ... +3       |
| -10 ... 0          | -5 ... +5       |
| -15 ... 0          | -7.5 ... +7.5   |
| -25 ... 0          | -12.5 ... +12.5 |
| -40 ... 0          | -20 ... +20     |
| -60 ... 0          | -30 ... +30     |
| -100 ... 0         | -50 ... +50     |
| -150 ... 0         | -75 ... +75     |

#### Further details on: scale ranges

|                                                           |                                                                                                                                                                       |                                                                                                                                                                                                 |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit                                                      | <div><div><div></div></div> mbar</div> <div><div><div></div></div> kg/cm<sup>2</sup></div> <div><div><div></div></div> kPa</div> <div><div><div></div></div> Pa</div> | <div><div><div></div></div> psi</div> <div><div><div></div></div> mmH<sub>2</sub>O</div> <div><div><div></div></div> inH<sub>2</sub>O</div> <div><div><div></div></div> oz/in<sup>2</sup></div> |
|                                                           | Other units on request                                                                                                                                                |                                                                                                                                                                                                 |
| Overpressure safety                                       |                                                                                                                                                                       |                                                                                                                                                                                                 |
| Scale range < 0 ... 40 mbar [0 ... 16 inH <sub>2</sub> O] | <div><div><div></div></div> Without</div> <div><div><div></div></div> 3 x full scale value</div>                                                                      |                                                                                                                                                                                                 |
| Scale range ≥ 0 ... 40 mbar [0 ... 16 inH <sub>2</sub> O] | <div><div><div></div></div> Without</div> <div><div><div></div></div> 10 x full scale value</div>                                                                     |                                                                                                                                                                                                 |
| Vacuum resistance                                         |                                                                                                                                                                       |                                                                                                                                                                                                 |
| Scale range < 0 ... 40 mbar [0 ... 16 inH <sub>2</sub> O] | <div><div><div></div></div> Without</div> <div><div><div></div></div> 3 x full scale value</div>                                                                      |                                                                                                                                                                                                 |
| Scale range ≥ 0 ... 40 mbar [0 ... 16 inH <sub>2</sub> O] | <div><div><div></div></div> Without</div> <div><div><div></div></div> 10 x full scale value</div>                                                                     |                                                                                                                                                                                                 |

| Further details on: scale ranges |                                                                                                              |           |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|-----------|
| Dial                             |                                                                                                              |           |
| Scale layout                     | <div><div></div> Single scale</div> <div><div></div> Dual scale</div>                                        |           |
| Scale colour                     | Single scale                                                                                                 | Black     |
|                                  | Dual scale                                                                                                   | Black/red |
| Serial number                    | <div><div></div> Without</div> <div><div></div> Consecutive number * ... *</div>                             |           |
| Material                         | Aluminium                                                                                                    |           |
| Special scale                    | → Other scales or customer-specific dials, e.g. with red mark, circular arcs or circular sectors, on request |           |
| Pointer                          |                                                                                                              |           |
| Instrument pointer               | Aluminium, black                                                                                             |           |
| Mark pointer                     | <div><div></div> Without</div> <div><div></div> Red mark pointer on window, adjustable <sup>1)</sup></div>   |           |
| Pointer stop pin                 | <div><div></div> Without</div> <div><div></div> At zero point</div> <div><div></div> At 6 o'clock</div>      |           |

1) Only available for NS 72 x 72 [2.84 x 2.84], 96 x 96 [3.78 x 3.78]

| Process connection |                                                                                                   |                                    |
|--------------------|---------------------------------------------------------------------------------------------------|------------------------------------|
| Standard           | <div><div></div> EN 837-3</div> <div><div></div> ANSI/B1.20.1</div>                               |                                    |
|                    |                                                                                                   |                                    |
| Size               |                                                                                                   |                                    |
| EN 837-3           | <div><div></div> G ¼ B, male thread</div> <div><div></div> G ½ B, male thread <sup>1)</sup></div> |                                    |
| ANSI/B1.20.1       | <div><div></div> ¼ NPT, male thread</div> <div><div></div> ½ NPT, male thread <sup>1)</sup></div> |                                    |
| Restrictor         | <div><div></div> Without</div>                                                                    |                                    |
|                    | <div><div></div> Ø 0.3 mm [0.012"], copper alloy</div>                                            |                                    |
|                    | <div><div></div> Ø 0.5 mm [0.02"], copper alloy</div>                                             |                                    |
|                    | <div><div></div> Ø 0.3 mm [0.012"], stainless steel</div>                                         |                                    |
|                    | <div><div></div> Ø 0.6 mm [0.024"], stainless steel</div>                                         |                                    |
| Material (wetted)  |                                                                                                   |                                    |
| Capsule element    | Model 614.11                                                                                      | Copper alloy                       |
|                    | Model 634.11                                                                                      | Stainless steel 316L <sup>2)</sup> |
| Seal               | Model 614.11                                                                                      | NBR                                |
|                    | Model 634.11                                                                                      | FPM/FKM                            |
| Process connection | Model 614.11                                                                                      | Copper alloy                       |
|                    | Model 634.11                                                                                      | Stainless steel 316L <sup>2)</sup> |

1) Only available for model 614.11 and model 634.11 in NS 144 x 72 [5.67 x 2.84] and 144 x 144 mm [5.67 x 5.67"]

2) Not available for NS 144 x 144 mm [5.67 x 5.67"]

→ Other process connections on request

| Operating conditions                |                                  |
|-------------------------------------|----------------------------------|
| Medium temperature                  | -20 ... +100 °C [-4 ... +212 °F] |
| Ambient temperature                 | -20 ... +60 °C [-4 ... +140 °F]  |
| Pressure limitation                 |                                  |
| 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 | IP42                             |

## Optional approvals

| Logo                                                                              | Description                                                | Region     |
|-----------------------------------------------------------------------------------|------------------------------------------------------------|------------|
|  | <b>PAC Kazakhstan</b><br>Metrology, measurement technology | Kazakhstan |
| -                                                                                 | <b>MChS</b><br>Permission for commissioning                | Kazakhstan |
| -                                                                                 | <b>PAC Ukraine</b><br>Metrology, measurement technology    | Ukraine    |
|  | <b>PAC Uzbekistan</b><br>Metrology, measurement technology | Uzbekistan |
| -                                                                                 | <b>PAC China</b><br>Metrology, measurement technology      | China      |

## Certificates (option)

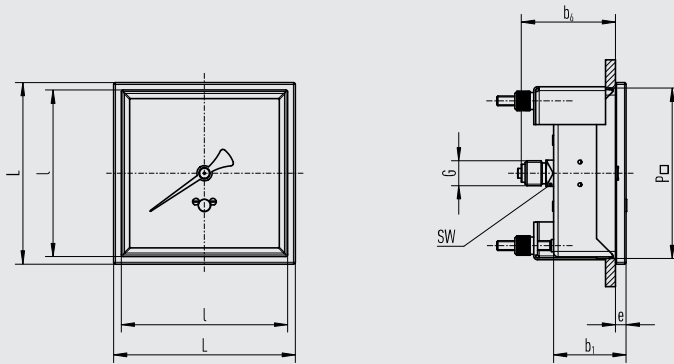
| Certificates                            |                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Certificates</b>                     | <ul style="list-style-type: none"> <li>■ 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, indication accuracy)</li> <li>■ 3.1 inspection certificate per EN 10204 (e.g. material proof for wetted metal parts, indication accuracy)</li> </ul>                                                                 |
| <b>Calibration</b>                      | <ul style="list-style-type: none"> <li>■ Factory calibration certificate</li> <li>■ SCS calibration certificate (traceable and accredited in accordance with ISO/IEC 17025)</li> <li>■ Calibration certificate by a national accreditation body, traceable and accredited in accordance with ISO/IEC 17025 on request</li> </ul> |
| <b>Recommended calibration interval</b> | 1 year (dependent on conditions of use)                                                                                                                                                                                                                                                                                          |

→ For approvals and certificates, see website

## Dimensions in mm [in]

NS 72 x 72 [2.84 x 2.84] and 96 x 96 [3.78 x 3.78]

40447024.01



| NS                                     | Weight                      |
|----------------------------------------|-----------------------------|
| <b>72 x 72</b><br><b>[2.84 x 2.84]</b> | Approx. 0.3 kg<br>[0.66 lb] |
| <b>96 x 96</b><br><b>[3.78 x 3.78]</b> | Approx. 0.4 kg<br>[0.88 lb] |

### Process connection with thread per EN 837-3

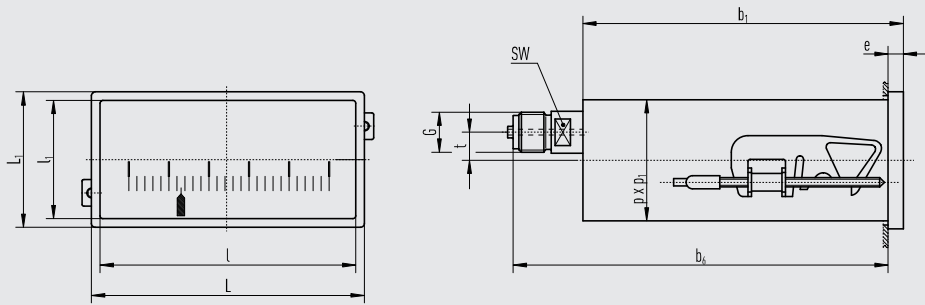
| NS                                     | G     | Dimensions in mm [in] |                |          |           |           |             |           |
|----------------------------------------|-------|-----------------------|----------------|----------|-----------|-----------|-------------|-----------|
|                                        |       | b <sub>1</sub>        | b <sub>6</sub> | e        | L         | l         | p           | SW        |
| <b>72 x 72</b><br><b>[2.84 x 2.84]</b> | G ¼ B | 36.5 [1.44]           | 50 [1.97]      | 6 [0.24] | 72 [2.84] | 62 [2.44] | 66 [2.6]    | 14 [0.55] |
| <b>96 x 96</b><br><b>[3.78 x 3.78]</b> | G ¼ B | 39 [1.54]             | 50 [1.97]      | 6 [0.24] | 96 [3.78] | 79 [3.11] | 88.5 [3.48] | 14 [0.55] |

### Process connection with thread per ANSI/B1.20.1

| NS                                     | G     | Dimensions in mm [in] |                |          |           |           |             |           |
|----------------------------------------|-------|-----------------------|----------------|----------|-----------|-----------|-------------|-----------|
|                                        |       | b <sub>1</sub>        | b <sub>6</sub> | e        | L         | l         | p           | SW        |
| <b>72 x 72</b><br><b>[2.84 x 2.84]</b> | ¼ NPT | 36.5 [1.44]           | 50 [1.97]      | 6 [0.24] | 72 [2.84] | 62 [2.44] | 66 [2.6]    | 14 [0.55] |
| <b>96 x 96</b><br><b>[3.78 x 3.78]</b> | ¼ NPT | 39 [1.54]             | 50 [1.97]      | 6 [0.24] | 96 [3.78] | 79 [3.11] | 88.5 [3.48] | 14 [0.55] |

# NS 144 x 72 [5.67 x 2.84]

40447033.01



| NS                        | Weight                      |
|---------------------------|-----------------------------|
| 144 x 72<br>[5.67 x 2.84] | Approx. 1.6 kg<br>[3.53 lb] |

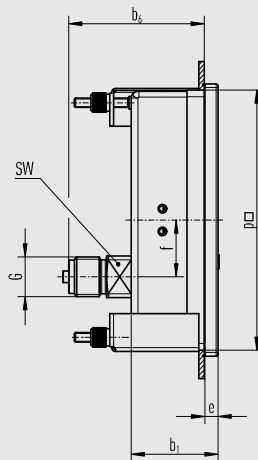
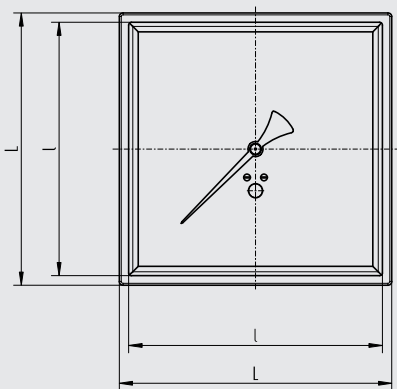
## Process connection with thread per EN 837-3

| NS                        | G     | Dimensions in mm [in] |                |          |           |            |                |            |                |                           |              |
|---------------------------|-------|-----------------------|----------------|----------|-----------|------------|----------------|------------|----------------|---------------------------|--------------|
|                           |       | b <sub>1</sub>        | b <sub>6</sub> | e        | F         | L          | L <sub>1</sub> | I          | I <sub>1</sub> | p x p <sub>1</sub>        | SW           |
| 144 x 72<br>[5.67 x 2.84] | G ¼ B | 168 [6.61]            | 190 [7.48]     | 8 [0.31] | 17 [0.70] | 144 [5.67] | 72 [2.83]      | 134 [5.28] | 62 [2.44]      | 138 x 67<br>[5.43 x 2.64] | 17<br>[0.70] |
|                           | G ½ B | 168 [6.61]            | 197 [7.76]     | 8 [0.31] | 17 [0.70] | 144 [5.67] | 72 [2.83]      | 134 [5.28] | 62 [2.44]      | 138 x 67<br>[5.43 x 2.64] | 17<br>[0.70] |

## Process connection with thread per ANSI/B1.20.1

| NS                        | G     | Dimensions in mm [in] |                |          |           |            |                |            |                |                           |              |
|---------------------------|-------|-----------------------|----------------|----------|-----------|------------|----------------|------------|----------------|---------------------------|--------------|
|                           |       | b <sub>1</sub>        | b <sub>6</sub> | e        | F         | L          | L <sub>1</sub> | I          | I <sub>1</sub> | p x p <sub>1</sub>        | SW           |
| 144 x 72<br>[5.67 x 2.84] | ¼ NPT | 168 [6.61]            | 190 [7.48]     | 8 [0.31] | 17 [0.70] | 144 [5.67] | 72 [2.83]      | 134 [5.28] | 62 [2.44]      | 138 x 67<br>[5.43 x 2.64] | 17<br>[0.70] |
|                           | ½ NPT | 168 [6.61]            | 197 [7.76]     | 8 [0.31] | 17 [0.70] | 144 [5.67] | 72 [2.83]      | 134 [5.28] | 62 [2.44]      | 138 x 67<br>[5.43 x 2.64] | 17<br>[0.70] |

## NS 144 x 144 [5.67 x 5.67]



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| NS                                       | Weight                      |
|------------------------------------------|-----------------------------|
| <b>144 x 144</b><br><b>[5.67 x 5.67]</b> | Approx. 0.9 kg<br>[1.98 lb] |

### Process connection with thread per EN 837-3

| NS                                       | G     | Dimensions in mm [in] |                |          |           |            |            |            |           |
|------------------------------------------|-------|-----------------------|----------------|----------|-----------|------------|------------|------------|-----------|
|                                          |       | b <sub>1</sub>        | b <sub>6</sub> | e        | F         | L          | I          | p          | SW        |
| <b>144 x 144</b><br><b>[5.67 x 5.67]</b> | G ¼ B | 46.5 [1.83]           | 64.5 [2.54]    | 8 [0.31] | 30 [1.18] | 144 [5.67] | 134 [5.28] | 136 [5.35] | 22 [0.87] |
|                                          | G ½ B | 46.5 [1.83]           | 71.5 [2.81]    | 8 [0.31] | 30 [1.18] | 144 [5.67] | 134 [5.28] | 136 [5.35] | 22 [0.87] |

### Process connection with thread per ANSI/B1.20.1

| NS                                       | G     | Dimensions in mm [in] |                |          |           |            |            |            |           |
|------------------------------------------|-------|-----------------------|----------------|----------|-----------|------------|------------|------------|-----------|
|                                          |       | b <sub>1</sub>        | b <sub>6</sub> | e        | F         | L          | I          | p          | SW        |
| <b>144 x 144</b><br><b>[5.67 x 5.67]</b> | ¼ NPT | 46.5 [1.83]           | 64.5 [2.54]    | 8 [0.31] | 30 [1.18] | 144 [5.67] | 134 [5.28] | 136 [5.35] | 22 [0.87] |
|                                          | ½ NPT | 46.5 [1.83]           | 70.5 [2.78]    | 8 [0.31] | 30 [1.18] | 144 [5.67] | 134 [5.28] | 136 [5.35] | 22 [0.87] |

### Ordering information

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

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