
STAUFF

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## Pressure Gauges (analogue/digital) and Accessories

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Measuring pressure on equipment is indispensable for monitoring and ensuring the smooth functioning and operating safety of these systems.

STAUFF offers a variety of simple pressure measuring devices for liquid and gaseous media. These pressure gauges can be used as both stationary or portable devices. STAUFF addresses the very extensive width of possible system pressures and the strict requirements for precision with a variety of pressure gauge types with different measuring ranges.

The glycerine filled gauge range is available with various connection ports to fit many different installation needs. The pressure gauges can be purchased alone or in a test kit. The kits can be supplied with gauges with different pressure ranges and adaptors to satisfy any requirement.

The analog pressure gauges are primarily designed for permanent installations. STAUFF also offers a digital line for analytical troubleshooting.

These digital pressure gauges are also available as a pressure test kit and also make it possible to perform the many different measurement tasks with the help of adaptors and the measuring hose. An important advantage is the possibility to measure pressure peaks with the device, to save them short term and to display them in the display as MIN and MAX values.

In addtion to the individual products, the STAUFF measuring devices are also available as kit.

## Information on the Pressure Equipment Directive (PED) 97/23/EC
## Pressure Equipment Directive (PED)

Our pressure gauges (SPG) conform to the European Standard EN 837-1 and are manufactured and tested according to appropriate requirements. Pressure gauges with a full scale value between 0,5 bar and 200 bar / 7.25 PSI and 2900 PSI come under „Good Engineering Practice“ and must not carry a CE mark (section 3, paragraph 3).

Pressure gauges (SPG) with a full scale value of less than 0,5 bar / 7.25 PSI and loose diaphragm sealings do not come under the PED and must not carry a CE mark. Our pressure gauges (SPG) with a full scale value of > 200 bar / 2900 PSI receive a CE mark according to the conformity procedure.

The CE mark is attached to the outside of the housing (type designation plate).
We are not authorised to CE mark pressure gauges without a company name or a company logo.

## Pressure Gauges ▪ Accessories



**Single Station Gauge Isolator Valve**
(see Catalogue 6 - STAUFF Valves)



**Multi Station Gauge Isolator Valve**
(see Catalogue 6 - STAUFF Valves)



**Gauge Isolator Needle Valves**
(see Catalogue 6 - STAUFF Valves)



**Test Hoses - Gauge Adaptor**
(see Catalogue 7 - STAUFF Test)



**Gauge Adaptor**
(see Catalogue 7 - STAUFF Test)



**Direct Gauge Adaptor**
(see Catalogue 7 - STAUFF Test)



**Adjustable Gauge Fitting**
(see Catalogue 7 - STAUFF Test)

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# Pressure Gauge (analogue) ▪ Type SPG



Pressure Gauge (Analogue) Type SPG (Stem Mounting)



Pressure Gauge (Analogue) Type SPG (Panel Mounting)

## Product Description

### Area of Application

- Mechanical pressure measurement

## Features

- Suitable for hydraulic oil and gaseous media compatible with copper based alloys
- Available in nominal sizes 63 and 100 mm / 2.5 and 4 in
- Thread form: for BSP (G1/4 and G1/2), NPT (1/4 NPT and 1/2 NPT), SAE (7/16–20 UNF)
- Stainless Steel (1.4301) housing
- Acrylic sight glass
- Glycerine filled
- Standard dual scales with pressure indication in bar and PSI
- U-bolt or flange mounting kit on request

Note: Please contact STAUFF before you use SPG with other media.

## Options

- Protective rubber cap
- Additional scale readings including personilisation
- U-bolt and flange mounting kits are available separately as spare parts

## Technical Data

- Pressure gauge according to EN 837-1
- Subject to technical modifications

### Accuracies

| | |
|---|---|
| SPG-063: | 1.6 (± 1.6 % FS* as per EN 837-1) |
| SPG-100: | 1.0 (± 1.0 % FS* as per EN 837-1) |

Note: Accuracy data according to EN 837-1, vertical adjustment position

### Permissible Temperatures

| | |
|---|---|
| ▪ Ambient: | -20 °C ... +60 °C / -4 °F ... +140 °F |
| ▪ Media: | max. +60 °C / max. +140 °F |

### Protection Ratings

| | |
|---|---|
| ▪ IP 65: | for all manometer SPG-100 and SPG-063 > 16 bar / 232 PSI<br>IP 65 protection rating: Dust tight and protected against water jets |
| ▪ IP 54 | for all manometer SPG-063 ≤ 16 bar / 232 PSI due to pressure compensation opening<br>IP 54 protection rating: Dust protected and protected against splashing water |

For further information see Catalogue 7 - STAUFF Test.

## Order Codes

**SPG - 063 - 00160 - 01 - P - B04 - U**

① ② ③ ④ ⑤ ⑥ ⑦

### ① Series and Type

| | |
|---|---|
| Stainless Steel Pressure Gauge | **SPG** |

### ② Size

| | |
|---|---|
| Ø 63 mm, with G1/4 or 1/4 NPT connection | **063** |
| Ø 100 mm, with G1/2 or 1/2 NPT connection | **100** |

### ③ Pressure Ranges

| Pressure Ranges for style of scale 01 - bar/PSI | Code | Pressure Ranges for style of scale 05 - PSI/bar | Code |
|---|---|---|---|
| -1 ... 1,5 bar / -14.5 ... 21 PSI | **(-00001)-00001.5** | -1,02 ... 0 bar / -30 inHg ... 0 PSI | **30HG30** |
| -1 ... 3 bar / -14.5 ... 43 PSI | **(-00001)-00003** | -1,02 ... 2,07 bar / -30 inHg ... 30 PSI | **03030** |
| 0 ... 10 bar / 0 ... 145 PSI | **00010** | 0 ... 2,07 bar / 0 ... 30 PSI | **00030** |
| 0 ... 16 bar / 0 ... 232 PSI | **00016** | 0 ... 4,14 bar / 0 ... 60 PSI | **00060** |
| 0 ... 25 bar / 0 ... 362 PSI | **00025** | 0 ... 6,89 bar / 0 ... 100 PSI | **00100** |
| 0 ... 40 bar / 0 ... 580 PSI | **00040** | 0 ... 11,03 bar / 0 ... 160 PSI | **00160** |
| 0 ... 60 bar / 0 ... 870 PSI | **00060** | 0 ... 13,79 bar / 0 ... 200 PSI | **00200** |
| 0 ... 100 bar / 0 ... 1450 PSI | **00100** | 0 ... 20,68 bar / 0 ... 300 PSI | **00300** |
| 0 ... 160 bar / 0 ... 2320 PSI | **00160** | 0 ... 34,74 bar / 0 ... 500 PSI | **00500** |
| 0 ... 250 bar / 0 ... 3625 PSI | **00250** | 0 ... 41,37 bar / 0 ... 600 PSI | **00600** |
| 0 ... 400 bar / 0 ... 5801 PSI | **00400** | 0 ... 68,95 bar / 0 ... 1000 PSI | **01000** |
| 0 ... 600 bar / 0 ... 8702 PSI | **00600** | 0 ... 103,42 bar / 0 ... 1500 PSI | **01500** |
| 0 ... 680 bar / 0 ... 9862 PSI | **00680** | 0 ... 137,90 bar / 0 ... 2000 PSI | **02000** |
| 0 ... 700 bar / 0 ... 10152 PSI | **00700** | 0 ... 206,84 bar / 0 ... 3000 PSI | **03000** |
| 0 ... 1000 bar / 0 ... 14503 PSI | **01000** | 0 ... 275,79 bar / 0 ... 4000 PSI | **04000** |
| | | 0 ... 344,74 bar / 0 ... 5000 PSI | **05000** |
| | | 0 ... 413,69 bar / 0 ... 6000 PSI | **06000** |
| | | 0 ... 517,11 bar / 0 ... 7500 PSI | **07500** |
| | | 0 ... 689,48 bar / 0 ... 10000 PSI | **10000** |

Note: Others on request. Information always refer to the pressure setting of the outside scale.

### ④ Styles of Scales

| | |
|---|---|
| bar / PSI (bar outside / PSI inside - standard option Europe) | **01** |
| bar | **02** |
| PSI | **03** |
| PSI / bar (PSI outside / bar inside - standard option North America) | **05** |
| kPa / PSI (kPa outside / PSI inside) | **10** |

Note: Others on request.

### ⑤ Adaption

| | |
|---|---|
| Stem mounting | **S** |
| Panel mounting | **P** |

### ⑥ Process Connection

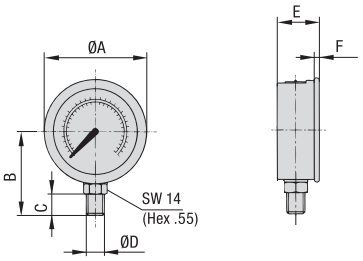
| | |
|---|---|
| G1/4 (only SPG-063) | **B04** |
| G1/2 (only SPG-100) | **B08** |
| 1/4 NPT (only SPG-063) | **N04** |
| 1/2 NPT (only SPG-100) | **N08** |
| 7/16–20 UNF (only SPG-063) | **U04** |

Note: Others on request.

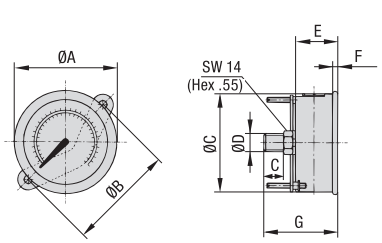
### ⑦ Accessories

| | |
|---|---|
| No accessory | **(none)** |
| U-bolt assembly | **U** |
| Front flange assembly (for panel mount only) | **F** |
| Rear flange assembly | **R** |
| U-bolt and front flange assembly (for panel mount only) | **UF** |
| Protective rubber cap (for stem mount only) | **G** |

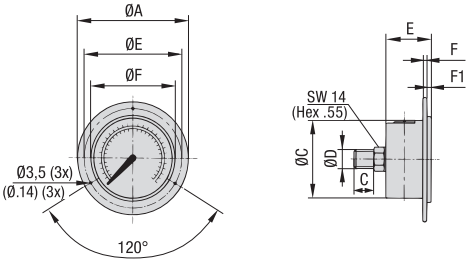
* FS = Full Scale




SPG-063 ... S ...



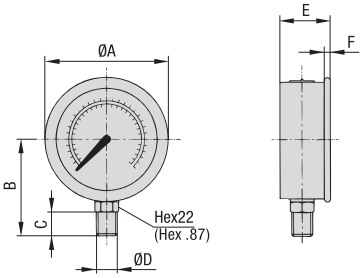

SPG-063 ... P ... U



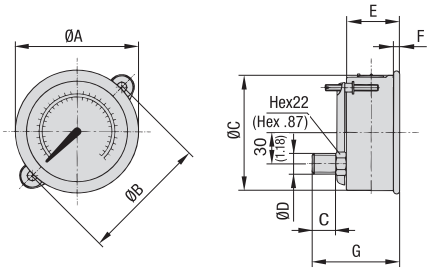

SPG-063 ... P ... F

## Dimensions SPG-063

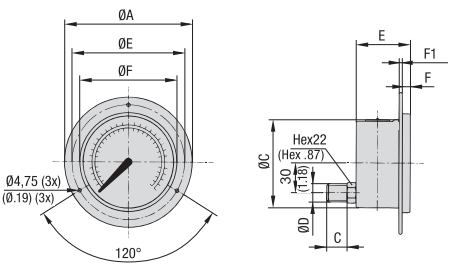
| Version | Dimension (mm/in) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pressure Gauge | ØA | ØB | ØC | ØD | ØE | ØF | B | C | E | F | F1 | G |
| SPG-063 | 69 | - | - | G1/4 | - | - | 54 | 15 | 32 | 6,5 | - | - |
| | 2.72 | | | 1/4 NPT | | | 2.13 | .59 | 1.26 | .26 | | |
| | | | | 7/16–20 UNF | | | | | | | | |
| SPG-063 ... U | 69 | 72 | 62 | G1/4 | - | - | - | 15 | 32 | 6,5 | - | 56 |
| | 2.72 | 2.83 | 2.44 | 1/4 NPT | | | | .59 | 1.26 | .26 | | 2.20 |
| | | | | 7/16–20 UNF | | | | | | | | |
| SPG-063 ... F | 85 | - | 62 | G1/4 | 75 | 68 | - | 15 | 32 | 1 | 6,5 | - |
| | 3.35 | | 2.44 | 1/4 NPT | 2.95 | 2.68 | | .59 | 1.26 | .04 | .26 | |
| | | | | 7/16–20 UNF | | | | | | | | |




SPG-100 ... S ...




SPG-100 ... P ... U




SPG-100 ... P ... F

## Dimensions SPG-100

| Version | Dimension (mm/in) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pressure Gauge | ØA | ØB | ØC | ØD | ØE | ØF | B | C | E | F | F1 | G |
| SPG-100 | 107 | - | - | G1/2 | - | - | 87 | 23 | 48 | 8 | - | - |
| | 4.21 | | | 1/2 NPT | | | 3.43 | .91 | 1.89 | .31 | | |
| SPG-100 ... U | 107 | 107 | 100 | G1/2 | - | - | - | 23 | 48 | 8 | - | 81,5 |
| | 4.21 | 4.21 | 3.94 | 1/2 NPT | | | | .91 | 1.89 | .31 | | 3.21 |
| SPG-100 ... F | 132 | - | 100 | G1/2 | 116 | 107 | - | 23 | 48 | 8 | 1,25 | - |
| | 5.20 | | 3.94 | 1/2 NPT | 4.57 | 4.21 | | .91 | 1.89 | .31 | .05 | |

* FS = Full Scale

Dimensional drawings: All dimensions in mm (in).

## Pressure Test Kit (analogue) ▪ Type SMB-20 / SMB-15

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Pressure test kit (analogue) with SPG-063 (3x)



Pressure test kit (analogue) with SPG-100 (1x)

### Product Description

In addition to the individual SPG gauges, the STAUFF Pressure Gauges are also available as part of a pressure test kit.

The SMB Pressure Test Kits are assembled in various versions, in accordance with customer wishes.
All pressure test kits are supplied in a handy case with custom-designed foam inserts.

Custom kits available upon request. Please contact STAUFF.

Please see on page 19 for standard options.

### Order Codes

**SMB-20 - 1 - xxx/xxx/xxx - W3**

① ② ③ ④

#### ① Series and Type

| | |
|---|---|
| Pressure Test Kit, analogue (STAUFF Test 20) | **SMB-20** |
| Pressure Test Kit, analogue (STAUFF Test 15) | **SMB-15** |

#### ② Number of Pressure Gauges

| | |
|---|---|
| 1 pressure gauge SPG-063 | **1** |
| 2 pressure gauges SPG-063 | **2** |
| 3 pressure gauges SPG-063 | **3** |
| 1 pressure gauge SPG-100 | **/100-1** |

#### ③ Pressure Ranges

| | |
|---|---|
| -1 ... 3 bar / -14.5 ... 43 PSI | **(-1)-003** |
| 0 ... 10 bar / 0 ... 145 PSI | **010** |
| 0 ... 16 bar / 0 ... 232 PSI | **016** |
| 0 ... 25 bar / 0 ... 362 PSI | **025** |
| 0 ... 40 bar / 0 ... 580 PSI | **040** |
| 0 ... 60 bar / 0 ... 870 PSI | **060** |
| 0 ... 100 bar / 0 ... 1450 PSI | **100** |
| 0 ... 160 bar / 0 ... 2320 PSI | **160** |
| 0 ... 250 bar / 0 ... 3625 PSI | **250** |
| 0 ... 400 bar / 0 ... 5801 PSI | **400** |
| 0 ... 600 bar / 0 ... 8702 PSI | **600** |

Note: Please indicate pressure ranges in bar.
For one pressure gauge please replace xxx.
For two pressure gauges please replace xxx/xxx.
For three pressure gauges please replace xxx/xxx/xxx.

#### ④ Material Surface

| | |
|---|---|
| Steel, zinc/nickel plated | **W3** |

For further information see Catalogue 7 - STAUFF Test.

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## Standard Option for Pressure Test Kits (analogue) ▪ Type SMB-20 / SMB-15

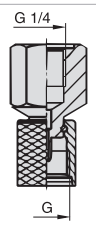
| Series | Components | Order Codes | Series | Components | Order Codes |
|---|---|---|---|---|---|
| SMB-20-1-xxx-W3 | 1x Test hose (2000 mm length) | SMS-20-2000-B-W3 | SMB-15-1-xxx-W3 | 1x Test hose (2000 mm length) | SMS-15-2000-B-W3 |
| | 1x Pressure gauge Ø 63 mm | SPG-063-xxx-... | | 1x Pressure gauge Ø 63 mm | SPG-063-xxx-... |
| | 1x Gauge adaptor G1/4 | SMA-20-G1/4-B-OR-W3 | | 1x Gauge adaptor G1/4 | SMA-15-G1/4-B-OR-W3 |
| | 1x Direct gauge adaptor G1/4 | SMD-20-G1/4-B-OR-W3 | | 1x Direct gauge adaptor G1/4 | SMD-15-G1/4-B-OR-W3 |
| | 1x Test coupling G1/4 | SMK-20-G1/4-B-C-W3 | | 1x Test coupling G1/4 | SMK-15-G1/4-B-B-W3 |
| | 1x Test coupling M10 x 1 | SMK-20-M10x1-B-A-W3 | | 1x Test coupling M14 x 1,5 | SMK-15-M14x1.5-B-B-W3 |
| | 1x Thread adaptor G3/8 | SRS-20-G3/8-B-W3 | | 1x Thread adaptor G3/8 | SRS-15-G3/8-B-W3 |
| | 1x Thread adaptor G1/2 | SRS-20-G1/2-B-W3 | | 1x Thread adaptor G1/2 | SRS-15-G1/2-B-W3 |
| xxx/xxx/xxx = pressure ranges see on page 18 (please indicate pressure ranges in bar)<br>Custom kits available upon request. Please contact STAUFF. | | | | | |

| Series | Components | Order Codes | Series | Components | Order Codes |
|---|---|---|---|---|---|
| SMB-20-2-xxx/xxx-W3 | 1x Test hose (2000 mm length) | SMS-20-2000-B-W3 | SMB-15-2-xxx/xxx-W3 | 1x Test hose (2000 mm length) | SMS-15-2000-B-W3 |
| | 2x Pressure gauges Ø 63 mm | SPG-063-xxx-... | | 2x Pressure gauges Ø 63 mm | SPG-063-xxx-... |
| | 1x Gauge adaptor G1/4 | SMA-20-G1/4-B-OR-W3 | | 1x Gauge adaptor G1/4 | SMA-15-G1/4-B-OR-W3 |
| | 1x Direct gauge adaptor G1/4 | SMD-20-G1/4-B-OR-W3 | | 1x Direct gauge adaptor G1/4 | SMD-15-G1/4-B-OR-W3 |
| | 1x Test coupling G1/4 | SMK-20-G1/4-B-C-W3 | | 1x Test coupling G1/4 | SMK-15-G1/4-B-B-W3 |
| | 1x Test coupling M10 x 1 | SMK-20-M10x1-B-A-W3 | | 1x Test coupling M14 x 1,5 | SMK-15-M14x1.5-B-B-W3 |
| | 1x Thread adaptor G3/8 | SRS-20-G3/8-B-W3 | | 1x Thread adaptor G3/8 | SRS-15-G3/8-B-W3 |
| | 1x Thread adaptor G1/2 | SRS-20-G1/2-B-W3 | | 1x Thread adaptor G1/2 | SRS-15-G1/2-B-W3 |
| xxx/xxx/xxx = pressure ranges see on page 18 (please indicate pressure ranges in bar)<br>Custom kits available upon request. Please contact STAUFF. | | | | | |

| Series | Components | Order Codes | Series | Components | Order Codes |
|---|---|---|---|---|---|
| SMB-20-3-xxx/xxx/xxx-W3 | 2x Test hoses (2000 mm length) | SMS-20-2000-B-W3 | SMB-15-3-xxx/xxx/xxx-W3 | 2x Test hoses (2000 mm length) | SMS-15-2000-B-W3 |
| | 3x Pressure gauges Ø 63 mm | SPG-063-xxx-... | | 3x Pressure gauges Ø 63 mm | SPG-063-xxx-... |
| | 1x Gauge adaptor G1/4 | SMA-20-G1/4-B-OR-W3 | | 1x Gauge adaptor G1/4 | SMA-15-G1/4-B-OR-W3 |
| | 2x Direct gauge adaptors G1/4 | SMD-20-G1/4-B-OR-W3 | | 2x Direct gauge adaptors G1/4 | SMD-15-G1/4-B-OR-W3 |
| | 3x Test couplings G1/4 | SMK-20-G1/4-B-C-W3 | | 3x Test couplings G1/4 | SMK-15-G1/4-B-B-W3 |
| | 3x Test couplings M10 x 1 | SMK-20-M10x1-B-A-W3 | | 3x Test couplings M14 x 1,5 | SMK-15-M14x1.5-B-B-W3 |
| | 1x Thread adaptor G3/8 | SRS-20-G3/8-B-W3 | | 1x Thread adaptor G3/8 | SRS-15-G3/8-B-W3 |
| | 1x Thread adaptor G1/2 | SRS-20-G1/2-B-W3 | | 1x Thread adaptor G1/2 | SRS-15-G1/2-B-W3 |
| xxx/xxx/xxx = pressure ranges see on page 18 (please indicate pressure ranges in bar)<br>Custom kits available upon request. Please contact STAUFF. | | | | | |

| Series | Components | Order Codes | Series | Components | Order Codes |
|---|---|---|---|---|---|
| SMB-20/100-1-xxx-W3 | 1x Test hose (2000 mm length) | SMS-20-2000-B-W3 | SMB-15/100-1-xxx-W3 | 1x Test hose (2000 mm length) | SMS-15-2000-B-W3 |
| | 1x Pressure gauge Ø 100 mm | SPG-100-xxx-... | | 1x Pressure gauge Ø 100 mm | SPG-100-xxx-... |
| | 1x Gauge adaptor G1/2 | SMA-20-G1/2-B-OR-W3 | | 1x Gauge adaptor G1/2 | SMA-15-G1/2-B-OR-W3 |
| | 1x Direct gauge adaptor G1/2 | SMD-20-G1/2-B-OR-W3 | | 1x Direct gauge adaptor G1/2 | SMD-15-G1/2-B-OR-W3 |
| | 1x Test coupling G1/2 | SMK-20-G1/2-B-C-W3 | | 1x Test coupling G1/4 | SMK-15-G1/4-B-B-W3 |
| | 1x Test coupling M10 x 1 | SMK-20-M10x1-B-A-W3 | | 1x Test coupling M14 x 1,5 | SMK-15-M14x1.5-B-B-W3 |
| | 1x Thread adaptor G3/8 | SRS-20-G3/8-B-W3 | | 1x Thread adaptor G3/8 | SRS-15-G3/8-B-W3 |
| | 1x Thread adaptor G1/2 | SRS-20-G1/2-B-W3 | | 1x Thread adaptor G1/2 | SRS-15-G1/2-B-W3 |
| xxx/xxx/xxx = pressure ranges see on page 18 (please indicate pressure ranges in bar)<br>Custom kits available upon request. Please contact STAUFF. | | | | | |

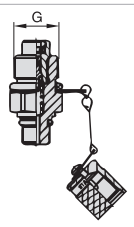
## Accessories (Connection Adaptors)




SDA adaptor
Connects the pressure gauge to a test coupling




SAD adaptor
Only in conjunction with the SDA-20-G1/4-W3 adaptor, connects to other test coupling sizes




Test coupling
STAUFF Test or comparable

| Adaptor | Adaption from | to Dimension G |
|---|---|---|
| SDA-20-G1/4-W3 | G1/4 | M16 x 2 |
| SDA-15-G1/4-W3 | G1/4 | M16 x 1,5 |
| SDA-12-G1/4-W3 | G1/4 | S12,65 x 1,5 |
| SAD-20/15-B-W3 | M16 x 2 | M16 x 1,5 |
| SAD-20/12-B-W3 | M16 x 2 | S12,65 x 1,5 |
| SAD-20/10-B-W3 | M16 x 2 | Plug-in system |

Other adaptors are available.

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# Digital Pressure Gauge ▪ Type SPG-DIGI / SPG-DIGI-USB (Data Logger)

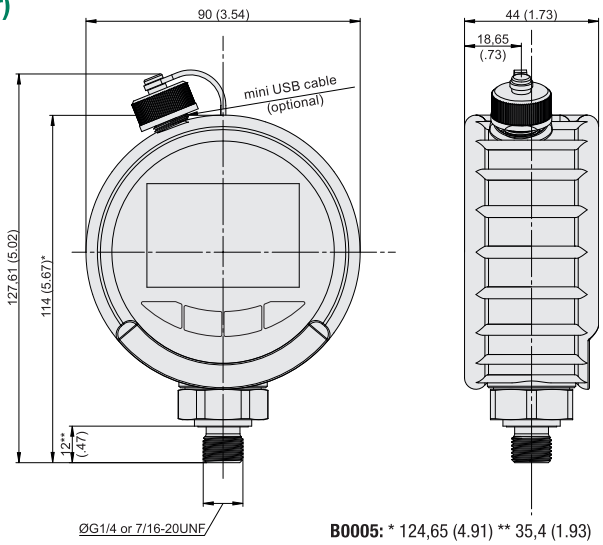
With Data Logger and USB Interface




SPG-DIGI




SPG-DIGI-USB




**B0005:** * 124,65 (4.91) ** 35,4 (1.93)

## Product Description

The STAUFF SPG-DIGI digital pressure gauges are designed for digital measurement and display of pressure in hydraulic systems, especially for oils, lubricants and water. Current measured values as well as min and max values can be displayed with a precision of 0.5% of the full scale value.

The SPG-DIGI is optionally available in the USB version, equipped with an internal data memory. A measurement started on the measuring device is automatically stored in the internal data memory in the universal .csv file format. The measurement data can then be transferred to the PC using the supplied mini USB cable. The device shows up on the PC as a USB data storage medium, so that no additional software is required for transferring the data. This allows easy export of the data, e.g. into Microsoft Excel®.

The measurement data are stored in the internal memory with a resolution of up to 100 ms for short measurements and a pressure peak monitoring of 10 ms. Up to ten measurement series can be stored in the device. The maximum measurement duration for each measurement is 24 h.

The STAUFF SPG-DIGI digital pressure gauges are available individually or as part of a complete pressure test kit. They are very robust, reliable, easy to operate and bear a CE mark.

## Features

- Bar graph display (drag pointer)
- Backlit display
- Zero point correction
- Battery status indicator
- Gauge ability to swivel 360°

## Technical Data (for SPG-DIGI-USB)

- Internal memory: 10 measurement series
- Measurement data lengths: max. 24 h
- Memory interval: up to 100 ms (increases with duration of measurement)
- Pressure peak detection min/max: 10 ms
- Date type: Date / time / pressure value / min. pressure / max. pressure
- Data format: CSV

A USB connecting cable is supplied as a standard.

## Order Codes

**SPG-DIGI** - **B0016** - **B** - **CAL**

① ② ③ ④

### ① Series and Type

| | |
|---|---|
| Digital Pressure Gauge | **SPG-DIGI** |
| Digital Pressure Gauge USB | **SPG-DIGI-USB** |

### ② Pressure Ranges

| | |
|---|---|
| -1 ... 5 bar / -14.5 ... 72 PSI | **B0005** |
| -1 ... 16 bar / -14.5 ... 232 PSI | **B0016** |
| 0 ... 100 bar / 0 ... 1450 PSI | **B0100** |
| 0 ... 400 bar / 0 ... 5801 PSI | **B0400** |
| 0 ... 600 bar / 0 ... 8702 PSI | **B0600** |
| 0 ... 1000 bar / 0 ... 14504 PSI | **B1000** |

### ③ Process Connection

| | |
|---|---|
| G1/4 | **B** |
| 7/16–20 UNF | **U** |

### ④ Calibration

| | |
|---|---|
| without calibration certificate | **(none)** |
| with calibration certificate | **CAL** |

## Pressure Ranges

| Version | Pressure Range (bar/PSI) | Maximum Pressure (bar/PSI) | Burst Pressure (bar/PSI) |
|---|---|---|---|
| B0005 | -1 ... 5 | 30 | 50 |
| | -14.5 ... 72 | 435 | 725 |
| B0016 | -1 ... 16 | 32 | 160 |
| | -14.5 ... 232 | 464 | 2321 |
| B0100 | 0 ... 100 | 200 | 800 |
| | 0 ... 1450 | 2900 | 11603 |
| B0400 | 0 ... 400 | 800 | 1700 |
| | 0 ... 5801 | 11603 | 24656 |
| B0600 | 0 ... 600 | 1200 | 2400 |
| | 0 ... 8702 | 17404 | 31908 |
| B1000 | 0 ... 1000 | 1500 | 2500 |
| | 0 ... 14504 | 21756 | 36259 |

## Technical Data

### Materials
- Housing made of die-cast Zinc with TPE
- Wetted parts: Stainless Steel 1.4404, NBR (Buna-N®), ceramics
- Seals: NBR (Buna-N®)
  FKM (Viton®) or EPDM on request

### Weight
- Max. weight: 360 g / .79 lbs

### Display
- Text display 4 1/2 digits
- Size: 50 x 34 mm / 1.97 x 1.34 in
- Actual value display: 15 mm / .59 in
- MIN/MAX or FS* display: 8 mm / .31 in
- Units: bar, PSI, Mpa (not for 5 bar and 16 bar), kPa (not for 1000 bar), mbar (only for 5 bar and 16 bar)
- Pressure peak measurement with 10 ms sampling rate
  Illuminated measured value display

### Accuracy
- ±0.25% FS* typ. / ±0.5% FS* max.

### Permissible Temperature ranges
- Ambient temp.: -10 °C ... +50 °C / +14 °F ... +122 °F
- Media temp.: -20 °C ... +80 °C / -4 °F ... +176 °F
- Storage temp.: -20 °C ... +60 °C / -4 °F ... +140 °F
- Relative humidity: < 85%
- Battery life: SPG-DIGI: max. 600 hours
  SPG-DIGI-USB: max. 1500 hours
  (operation without illumination, 2 x 1.5 V DC AA (LR6-AA) alkaline)

### Process Connections
- G1/4 or 7/16–20 UNF, Stainless Steel 1.4404
- Vibration: IEC 60068-2-6 / 10 ... 500 Hz / 5 g
- Shock: IEC 60068-2-27 / 11 ms / 25 g
- Load change ($10^6$): 100

### Protection Rating
- IP 65:
  Dust-tight and protected against water jets
  (SPG-DIGI-USB: IP65 only with cover installed)

* FS = Full Scale

# Pressure Test Kit (digital) ▪ Type SMB-DIGI





Digital Pressure Test Kit (SPG-DIGI-USB)

## Order Codes

**SMB-DIGI** - **20** - **B0016** - **B** - **CAL**

① ② ③ ④ ⑤

### ① Series and Type

| | |
|---|---|
| Pressure Test Kit with SPG-DIGI | **SMB-DIGI** |
| Pressure Test Kit with SPG-DIGI-USB | **SMB-DIGI-USB** |

### ② Adaptor Version

| | |
|---|---|
| Adapts to STAUFF Test 20 (M16 x 2) | **20** |

### ③ Pressure Ranges

| | |
|---|---|
| -1 ... 5 bar / -14.5 ... 72 PSI | **B0005** |
| -1 ... 16 bar / -14.5 ... 232 PSI | **B0016** |
| 0 ... 100 bar / 0 ... 1450 PSI | **B0100** |
| 0 ... 400 bar / 0 ... 5801 PSI | **B0400** |
| 0 ... 600 bar / 0 ... 8702 PSI | **B0600** |

### ④ Process Connection

| | |
|---|---|
| G1/4 | **B** |
| 7/16–20 UNF | **U** |

### ⑤ Calibration

| | |
|---|---|
| Without calibration certificate | **(none)** |
| With calibration certificate | **CAL** |

## Pressure Ranges

| Version | Pressure Range (bar/PSI) | Maximum Pressure (bar/PSI) | Burst Pressure (bar/PSI) |
|---|---|---|---|
| B0005 | -1 ... 5 | 30 | 50 |
| | -14.5 ... 72 | 435 | 725 |
| B0016 | -1 ... 16 | 32 | 160 |
| | -14.5 ... 232 | 464 | 2321 |
| B0100 | 0 ... 100 | 200 | 800 |
| | 0 ... 1450 | 2900 | 11603 |
| B0400 | 0 ... 400 | 800 | 1700 |
| | 0 ... 5801 | 11603 | 24656 |
| B0600 | 0 ... 600 | 1200 | 2400 |
| | 0 ... 8702 | 17404 | 31908 |

## Product Description

In addition to the individual SPG-DIGI devices, the STAUFF Digital Pressure Gauges are also available as part of a pressure test kit.

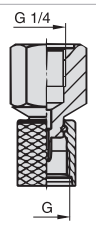
The SMB-DIGI pressure test kits are assembled in various versions, in accordance with customer wishes. All pressure test kits are supplied in a handy case with custom-designed foam inserts.

## Components

**Standard Option SMB-DIGI-20**

- Digital Pressure Gauge SPG-DIGI or SPG-DIGI-USB*
- Test Hose (2 m / 6.56 ft), M16 x 2, pressure-resistant 600 bar (8702 PSI) SMS-20-2000-B-W3
- Adaptor SDA (G1/4 to M16 x 2) SDA-20-G1/4-W3
- Hose Connector SSV-20-W3
- Test Coupling SMK-20-G1/4-B-C-W3
- Test Coupling SMK-20-M10x1-B-A-W3
- Thread Adaptor SRS-20-G3/8-B-W3
- Thread Adaptor SRS-20-G1/2-B-W3
- Quickguide
- *Supplied with a mini USB connecting cable

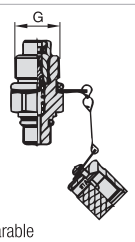
## Accessories (Connection Adaptors)




SDA adaptor
Connects the pressure gauge to a test coupling
(Max. Pressure 630 bar / 9137 PSI)




SAD adaptor
Only in conjunction with the SDA-20-G1/4-W3 adaptor, connects to other test coupling sizes
(Max. Pressure 630 bar / 9137 PSI)




Test coupling
STAUFF Test or comparable
(Max. Pressure 630 bar / 9137 PSI)

| Adaptor | Adaption from | to Dimension G |
|---|---|---|
| SDA-20-G1/4-W3 | G1/4 | M16 x 2 |
| SDA-15-G1/4-W3 | G1/4 | M16 x 1,5 |
| SDA-12-G1/4-W3 | G1/4 | S12,65 x 1,5 |
| SAD-20/15-B-W3 | M16 x 2 | M16 x 1,5 |
| SAD-20/12-B-W3 | M16 x 2 | S12,65 x 1,5 |
| SAD-20/10-B-W3 | M16 x 2 | Plug-in system |

Other adaptors are available.