Pressure Gauges (analogue/digital) and Accessories



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.

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



Pressure Gauges

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.



Α

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)



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



Adjustable Gauge Fitting (see Catalogue 7 - STAUFF Test)



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



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



Gauge Adaptor (see Catalogue 7 - STAUFF Test)



Direct Gauge Adaptor (see Catalogue 7 - STAUFF Test)

Pressure Gauge (analogue) - Type SPG



Pressure Gauge (Analogue) Type SPG (Stem 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:

SPG

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

Permissible Temperatures

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

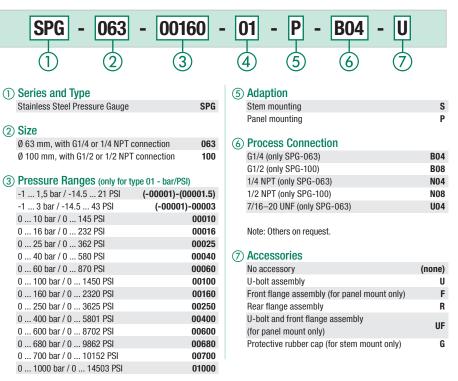
Protection Ratings

IP 65: for all manometer SPG-100 and SPG-063 > 16 bar / 232 PSI 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 IP 54 protection rating: Dust protected and protected against splashing water



Pressure Gauge (Analogue) Type SPG (Panel Mounting)

Order Codes



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

(4) Styles of Scales

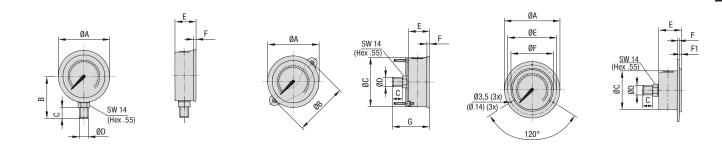
bar / PSI (bar outside/PSI inside - standard option)	01
bar	02
PSI	03
PSI / bar (PSI outside/ bar inside)	05
kPa / PSI (kPa outside/ PSI inside)	10

Note: Others on request.

* FS = Full Scale



Pressure Gauge (analogue) - Type SPG



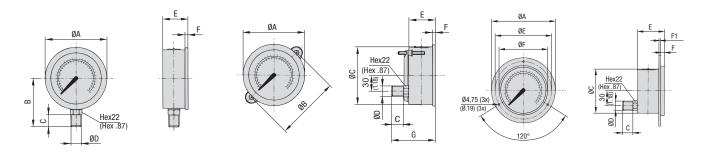
SPG-063 ... S ...

SPG-063 ... P ... U

SPG-063 ... P ... F

Dimensions SPG-063

Version	Dimension (^{mm} / _{in})											
Pressure Gauge	ØA	ØB	ØC	ØD	ØE	ØF	В	C	E	F	F1	G
SPG-063	69			G1/4 1/4 NPT	-	-	54	15	32	6,5		-
5PG-063	2.72	-	-	7/16–20 UNF			2.13	.59	1.26	.26		
	69	72	62	G1/4		-	-	15	32	6,5		56
SPG-063 U	2.72	2.83	2.44	1/4 NPT 7/16–20 UNF	-			.59	1.26	.26	-	2.20
CDC 0C0 F	85		62	G1/4	75	68		15	32	1	6,5	
SPG-063 F	3.35		2.44	1/4 NPT 7/16-20 UNF	2.95	2.68	-	.59	1.26	.04	.26	-



SPG-100 ... S ...

SPG-100 ... P ... U

SPG-100 ... P ... F

Dimensions SPG-100

Version	Dimensi	Dimension (mm/ _{in})											
Pressure Gauge	ØA	ØB	ØC	ØD	ØE	ØF	В	С	E	F	F1	G	
CDC 100	107			G1/2			87	23	48	8			
SPG-100	4.21	-	-	1/2 NPT	-	-	3.43	.91	1.89	.31	-	-	
SPG-100 U	107	107	100	G1/2		-		23	48	8		81,5	
5PG-100 0	4.21	4.21	3.94	1/2 NPT	-			.91	1.89	.31	-	3.21	
	132		100	G1/2	116	107		23	48	8	1,25		
SPG-100 F	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).



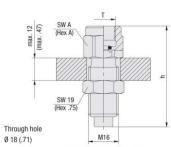
® STAUFE

Test Couplings

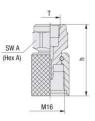
Direct Gauge Adaptor

SMD-20

Α



Gauge Adaptor SMA-20



Direct Gauge Adaptor SMD-20

Thread	Dimensions (^{mm} /in)		Weight (^{kg} / _{lbs}) ca.	Ordering Codes (Standard Option)
т	h	Hex A	per 100	
G1/4	54	19	7,20	SMA-20-G1/4-B-0R-W3
01/4	2.13	.75	15.84	SIMA-20-01/4-B-0h-W3
G1/2	64	27	12,40	SMA-20-G1/2-B-0R-W3
61/2	2.52	1.06	27.28	SIMA-20-01/2-D-0R-W3
	54	19	7,20	SMA-20-1/4NPT-B-W3
1/4 NPT	2.13	.75	15.84	SMA-20-1/4NP1-B-W3
1/0 NDT	64	27	13,50	CMA OD 1/ONDT D WO
1/2 NPT	2.52	1.06	29.70	SMA-20-1/2NPT-B-W3
7/10 00 UNE	54	19	7,60	
7/16-20 UNF	2.16	.75	16.76	SMA-20-7/16UNF-B-W3
9/16-18 UNF	57	19	7,50	CMA DO ACCUNE D MO
9/10-18 UNF	2.24	.75	16.53	SMA-20-9/16UNF-B-W3
G1/4	41	19	5,70	SMD-20-G1/4-B-0R-W3
G1/4	1.61	.75	12.54	SMD-20-61/4-B-0R-W3
01/0	51	27	10,10	SMD-20-G1/2-B-0R-W3
G1/2	2.01	1.06	22.22	SIMD-20-61/2-B-0R-W3
	41	19	5,80	CMD OG 1/4NDT WO
1/4 NPT	1.61	.75	12.76	SMD-20-1/4NPT-W3
1/0 NDT	51	27	10,80	
1/2 NPT	2.01	1.06	23.76	SMD-20-1/2NPT-W3
7/10 00 1815	41	19	6,00	CMD OD 7/1 CUNE MO
7/16-20 UNF	1.61	.75	13.20	SMD-20-7/16UNF-W3
0/40 40 100	43	19	5,25	
9/16-18 UNF	1.69	.75	11.55	SMD-20-9/16UNF-W3

Gauge Adaptor

SMA-20



Ordering Codes *SMA*-20*-G1/4*-B*-OR*-W3 * Type Gauge Adaptor SMA * Series STAUFF Test 20 -20 (Connection Thread M16x2) * Thread acc. to dimension table -G1/4 * Seal Material NBR (Buna-N®) -B FKM/FPM (Viton®) -V EPDM -E * Seal Type with 0-ring -OR * Material Code Steel, zinc/nickel-plated -W3 Stainless Steel V2A --W4 1.4305 (AISI 303) Stainless Steel V4A --W5 1.4571 (AISI 316 Ti)

Standard option - SMA-20: With Hexagon Lock Nut.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information. Snubber on request.

Dimensional drawings: All dimensions in mm (in).



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Test Coupling with Male Threaded Stud



-20

-B

-V

-E

-A

-B

-C

-D

-E

_

-SK

-KK

-W3

-W4

-W5

Ordering Codes *SMK*-20*-G1/4*-B*-C*-SK*-W3 * Туре Test Coupling with Ball Check SMK * Series STAUFF Test 20 (Connection Thread M16x2) * Port Connection acc. to dimension table -G1/4 * Seal Material NBR (Buna-N®) FKM/FPM (Viton®) EPDM * Seal Type 0-ring Type A Metal Joint Type B Elastomeric Sealing Type C Taper Type D 0-ring Type E * Protection Cap Knurled protection cap Hexagonal protection cap Plastic protection cap * Material Code Steel, zinc/nickel-plated Stainless Steel V2A -1.4305 (AISI 303) Stainless Steel V4A -1.4571 (AISI 316 Ti) **Seal Type**



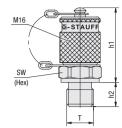
Metal Joint Type B

Elastomeric Sealing Type C

Taper Type D1

0-ring Type E

For further information on Seal Types, please see page 74-77.





Thread	Seal Type	Working Pressure (^{bar} /PSI)	Dimensions (^{mm/} in)		Torque (^{N-m} /ft-lb) ca.	Weight (^{kg} /lbs) ca.	Ordering Codes (Standard Option)	
Т			h1	h2	Hex	Thread T	per 100	
M8 x 1		250	38	8,5	17	6	6,10	SMK-20-M8x1-B-A-W3
	Type A	3625	1.50	.33	.67	4.4	13.42	5WIK-20-W0X1-D-A-W5
M10 x 1	Турс А	630	38	9,8	17	12	6,70	SMK-20-M10x1-B-A-W3
		9137	1.50	.39	.67	8.8	14.74	
M10 x 1		400	37	8	17	18	6,60	SMK-20-M10x1-B-B-W3
		5801	1.46	.31	.67	13.3	14.52	
M12 x 1,5		630	37	12	17	35	7,00	SMK-20-M12x1.5-B-B-W3
		9137 630	1.46 37	.47 12	.67 19	25.8 55	15.40 7,50	
M14 x 1,5		9137	1.46	.47	.75	40.6	16.50	SMK-20-M14x1.5-B-B-W3
		630	37	12	22	70	8,40	
M16 x 1,5	Type B	9137	1.46	.47	.87	51.6	18.48	SMK-20-M16x1.5-B-B-W3
		400	39	8	17	18	6,90	
G1/8		5801	1.54	.31	.67	13.3	15.18	SMK-20-G1/8-B-B-W3
G1/4	1	630	37	12	19	55	7,30	SMK-20-G1/4-B-B-W3
61/4		9137	1.46	.47	.75	40.6	16.06	SIMIK-20-01/4-D-D-W3
G3/8		630	37	12	22	90	8,90	SMK-20-G3/8-B-B-W3
		9137	1.46	.47	.87	66.4	19.58	
M10 x 1		400	39	8	17	18	6,80	SMK-20-M10x1-B-C-W3
		5801	1.54	.31	.67	13.3	14.96	
M12 x 1,5		630	37	12	17	35	6,90	SMK-20-M12x1.5-B-C-W3
		9137	1.46	.47	.67	25.8	15.18	
M14 x 1,5		630 9137	37 1.46	12	19	50 36.9	7,70 16.94	SMK-20-M14x1.5-B-C-W3
		630	37	.47 12	.75 22	60	8,70	
M16 x 1,5		9137	1.46	.47	.87	44.2	19.14	SMK-20-M16x1.5-B-C-W3
	Type C	400	39	8	17	18	6,80	
G1/8		5801	1.54	.31	.67	13.3	14.96	SMK-20-G1/8-B-C-W3
		630	37	12	19	45	8,10	
G1/4		9137	1.46	.47	.75	33.2	17.82	SMK-20-G1/4-B-C-W3
00/0		630	37	12	22	80	8,90	CM// 00 00/0 D 0 W0
G3/8		9137	1.46	.47	.87	59	19.58	SMK-20-G3/8-B-C-W3
G1/2		630	39	14	27	110	12,80	SMK-20-G1/2-B-C-W3
01/2		9137	1.54	.55	1.06	81.1	28.16	JWIK-20-01/2-D-0-W3
R1/8 K		400	37	8	17		6,70	SMK-20-R1/8K-B-D-W3
		5801	1.46	.31	.67		14.74	
R1/4 K		630	35	12	17		7,10	SMK-20-R1/4K-B-D-W3
	Type D1	9137	1.38	.47	.67		15.62	
1/8 NPT		400	36 1.42	10 .39	17 .67		6,40	SMK-20-1/8NPT-B-D-W3
		5801 630	35	15	17		14.08 7,30	
1/4 NPT		9137	1.38	.59	.67		16.06	SMK-20-1/4NPT-B-D-W3
		400	38	7,5	17	8	6,70	
5/16-24 UNF		5.801	1.50	.30	.67	5.9	14.74	SMK-20-5/16UNF-B-E-W3
7/10 00 10/5		630	38	9,1	17	20	7,00	
7/16-20 UNF		9137	1.50	.36	.67	14.7	15.40	SMK-20-7/16UNF-B-E-W3
1/2-20 UNF	1	630	38	9,2	17	25	7,20	SMK-20-1/2UNE D E W2
1/2-20 UNF		9137	1.50	.36	.67	18.4	15.84	SMK-20-1/2UNF-B-E-W3
9/16-18 UNF		630	37	10	19	35	7,60	SMK-20-9/16UNF-B-E-W3
	Type E	9137	1.46	.39	.75	25.8	16.72	0mi(-20-3/100/11-D-L-W3
3/4-16 UNF	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	630	37	11.1	19	70	9,58	SMK-20-3/4UNF-B-E-W3
		9137	1.46	.44	.75	51.6	21.08	
M10 x 1		630	38	9,5	17	18	6,60	SMK-20-M10x1-B-E-W3
		9137	1.50	.37	.67	13.3	14.52	
M12 x1,5		630	37	11	17	35	6,90	SMK-20-M12x1.5-B-E-W3
		9137 630	1.46 38	.43 11	.67 19	25.8 45	15.18 7,80	
M14 x 1,5		9137	1.50	.43	.75	33.2	17.16	SMK-20-M14x1.5-B-E-W3
		5101	1.50	.40	.15	00.2	17.10	

¹ Suitable liquid / plastic sealant required.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information. Torque recommendations for Steel mating material.

Dimensional drawings: All dimensions in mm (in).