

Bourdon tube pressure gauge Lower mount, standard version Model 111A



Applications

- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Pneumatics
- Heating and air-conditioning technology
- Medical engineering

Special features

- Reliable and cost-effective
- Design per EN 837-1
- Nominal size 40, 50, 63, 80, 100 and 160
- Scale ranges up to -1... 0 ... 1000 bar



Description

- Nominal size in mm: 40, 50, 63, 80, 100 and 160
- Accuracy class: 1.6, 2.5
- Scale ranges: 0 ... 0.6 to 0 ... 1000 bar or all equivalent vacuum or combined pressure and vacuum ranges
- Pressure limitation:
 - Steady: 3/4 x full scale value
 - Fluctuating: 2/3 x full scale value
 - Short time: Full scale value
- Permissible temperature:
 - Ambient: -20 ... +60 °C
 - Medium: +60 °C maximum
- Temperature effect:
 - When the temperature of the measuring system deviates from the reference temperature (+20 °C): max. $\pm 0.4 \text{ \%}/10 \text{ K}$ of the span

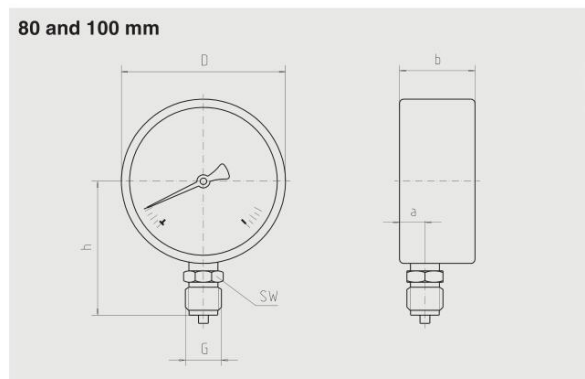
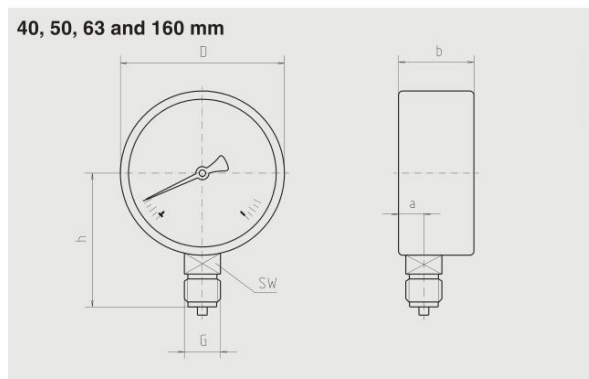
Standard version

- Process connection: Copper alloy, lower mount (LM)
- NS 40: 1/8" G, NPT or others (male), 11 or 14 mm flats
- NS 50, 63: 1/4 G, NPT or others, 14 mm flats
- NS 80, 100, 160: G, NPT or others, 22 mm flats
- Pressure element: Copper alloy, C-type or helical type
- Movement: Copper alloy
- Dial: Aluminum, dial scale can be customized

- Pointer: Aluminum, black or white
- Case: Plastic, black steel
- Window: Plastic snap-fitted in case or glass window
- Bezel ring: without or black steel

Dimensions in mm

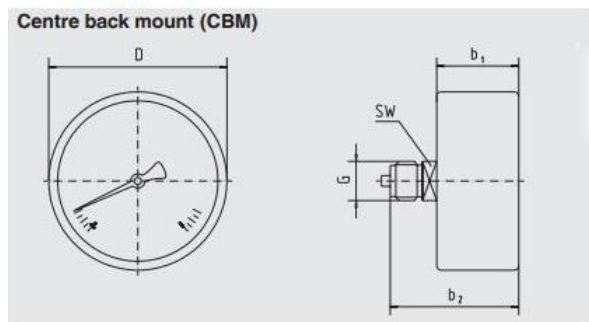
Standard version



NS	Dimensions in mm			G	h ±1	SW	Weight in kg
	a	b ±0.5	D				
40	9.5	26	39	G ⅛ B	36	14	0.08
50	10	27.5	49	G ¼ B	45	14	0.10
63	9.5	27.5	62	G ¼ B	53.5	14	0.13
80	11.5	30	79	G ½ B	72	22	0.18
100	11.5	30.5	99	G ½ B	83.5	22	0.21
160	15.5	42	160	G ½ B	115.5	22	0.85

Dimensions in mm

Standard version



NS	Dimensions in mm		D	G	SW	Weight in kg
	b1 ±0.5	b2 ±1				
40	26	42	39	G ⅛ B	14	0.06
50	29.5	47.5	49	G ¼ B	14	0.07
63	29	47	62	G ¼ B	14	0.08
80	32	49	79	G ¼ B	14	0.11
100	31	49	99	G ¼ B	14	0.26

Ordering information

	Code	Example
Basic Model	111A	111A

(111A means Dry pressure gauge with black steel case, brass internal and connection)

Case Size		
40mm(1.5")	40	63
50mm(2")	50	
63mm(2.5")	63	
80mm(3")	80	
100mm(4")	100	

Mounting Type		
Bottom mounting	LM	BM
Bottom mounting with back flange	LF	
Back mounting	BM	
Back mounting with front flange	BF	
Back mounting with U-clamp	BU	

Process connection		
1/8"BSP	1B	2B
1/8"NPT	1N	
1/8"BSPT	1T	
1/4"BSP	2B	
1/4"NPT	2N	
1/4"BSPT	2T	
3/8"BSP	3B	
3/8"NPT	3N	
3/8"BSPT	3T	
1/2"BSP	4B	
1/2"NPT	4N	
1/2"BSPT	4T	
7/16-20UNF	5U	
M12*1.5	6M	
M20*1.5	7M	

Pressure range		
-30"Hg-0psi	-1-0bar	-30"-0psi
-30"Hg-9psi	-1-0.6bar	-30"-9psi
-30"Hg-30psi	-1-1.5bar	-30"-30psi
-30"Hg-60psi	-1-3bar	-30"-60psi
-30"Hg-100psi	-1-5bar	-30"-100psi
-30"Hg-160psi	-1-9bar	-30"-160psi
-30"Hg-200psi	-1-15bar	-30"-200psi
-30"Hg-350psi	-1-24bar	-30"-350psi

0-15psi	0-1bar	0-15psi	
0-23psi	0-1.6bar	0-23psi	
0-30psi	0-2.5bar	0-30psi	
0-60psi	0-4bar	0-60psi	0-60PSI
0-100psi	0-6bar	0-100psi	
0-160psi	0-10bar	0-160psi	
0-200psi	0-16bar	0-200psi	
0-300psi	0-25bar	0-300psi	
0-600psi	0-40bar	0-600psi	
0-800psi	0-60bar	0-800psi	
0-1500psi	0-100bar	0-1500psi	
0-2000psi	0-160bar	0-2000psi	
0-3000psi	0-250bar	0-3000psi	
0-5000psi	0-400bar	0-5000psi	
0-10000psi	0-600bar	0-10000psi	
0-15000psi	0-1000bar	0-15000psi	

Note: 0-10000psi and 0-15000psi just suit thread 1/4" 3/8" or 1/2"

Options			
Custom designed dial		D	D
Neutral dial		without code letter	
Special connection		SC	

Example: **111A63BM2B0-60PSID**