



BP SERIES

Pressure gauges for low pressures generally used for gas

- ◆ capsule pressure element;
- ◆ copper-berillium or stainless steel capsule;
- ◆ NS 63 - 100 - 150;
- ◆ ranges included between -6 and 400 mbar.



made in
ITALY



PED 2014/68/EU
ATEX 2014/34/EU



TECHNICAL FEATURES

• Nominal sizes

- 63 (minimum range 60 mbar);
- 100 (minimum range 6 mbar);
- 150 (minimum range 6 mbar).

• Execution

- A... direct vertical mounting;
- B... surface mounting;
- C... flush mounting;
- D... direct horizontal mounting;
- ...2 stainless steel capsule, brass movement, AISI 316L stainless steel pressure connection (NS 100 and 150);
- ...3 copper-berillium capsule, brass movement, brass pressure connection (NS 63 and 100).

• Casing

- case and ring in AISI 304 stainless steel with bayonet bezel for execution 2 as an alternative for execution 3 NS 100;
- black painted steel case for execution 3.

• Protection degree (according to EN 60529)

- IP 55 for dry execution 2;
- IP 43 for execution 3.
- IP 67 (option V66 and V72) for execution 2;

• Window

- glass for NS 100 and 150;
- plastic snap-fit for NS 63.

• Blow-out device

- blow out plug for NS 100 and 150.

• Pressure connection (according EN 837-3)

- Gas (BSP) or NPT thread as F dimension shown in BP tables:
- brass (execution 3);
- AISI 316L (execution 2).

• Pressure element

- copper-berillium capsule (execution 3);
- stainless steel capsule AISI 316Ti (execution 2).

• Movement

- brass.

• Zero adjustment

- on the dial.

• Ranges (according to EN 837-3)

o Graduation:

- pressure gauges: 0 ÷ 6; 0 ÷ 10; 0 ÷ 16; 0 ÷ 25; 0 ÷ 40; 0 ÷ 60; 0 ÷ 100; 0 ÷ 160; 0 ÷ 250; 0 ÷ 400;
- vacuum gauges: -6 ÷ 0; -10 ÷ 0; -16 ÷ 0; -25 ÷ 0; -40 ÷ 0; -60 ÷ 0; -100 ÷ 0; -160 ÷ 0; -250 ÷ 0; -400 ÷ 0;
- compound gauges: on request.
(divisions as per table C1 at page P04)
- other graduations not normalized.

o Unit of pressure:

- mbar, kPa, and psi for single or double range.

o Scale angle:

- 270 °.

• Working pressure (referred to full scale deflection)

- from 1/10 to 2/3.

• Over-pressure (referred to full scale deflection)

- not allowed.

• Pointer

- aluminium not adjustable.

• Dial

- white aluminium with black figures (for dial modifications see available options).

• Accuracy (according to EN 837-3)

- class 1,6 ($\pm 1,6\%$ of full scale deflection).

• Ambient temperature

- -10 ÷ +50 °C.

• Thermal drift

- out of optimum ambient temperature values included within +15 ÷ +25 °C, the thermal drift affects the instruments accuracy of 0,5% every 10 °C.

• Operating temperature

- -10 ÷ +60 °C for execution 3;
- -10 ÷ +120 °C for execution 2.



APPLICATIONS

- **Accessories (see AM series)**
 - cooling siphons, recommended when high temperature are involved;
 - valves;
- dampers for control of process fluid entry speed into the instrument;
- adjusting over-pressure protectors to cut automatically off the instrument from the circuit.

OPTIONS

- **Window**
laminated safety glass for NS 100 and 150. (identification V17)
- customer's logo. (identification V58)
- **Degreasing for oxygen service**
for execution 2. (identification V31)
- **AISI 316 stainless steel case and ring**
as alternative to AISI 304 stainless steel for execution 2. (identification V61)
- **Screwed pressure connection**
different from standard. (identification V42)
- **Liquid filling**
silicone fluid filled casing (minimum range 100 mbar pressure). (identification V66)
- **Changes to the dial**
 - serial number; (identification V50)
 - specific dial; (identification V51)
 - red mark; (identification V52)
 - writings; (identification V53)
 - TAG number; (identification V54)
 - dial without logo; (identification V56)
 - double logo (Fantinelli + customer); (identification V57)
- **IP 67 casing**
not fillable. (identification V72)
- **Metal tag plate**
AISI 316 stainless steel for tag number. (identification V82)

DOCUMENTATION

- **Fantinelli calibration certificate class 1,6**
rising pressure. (identification V93)
- **ACCREDIA calibration certificate**
(identification V98)
- **Complementary documents**
 - o certificate of compliance with the order EN 10204 2.2.
 - o technical documentation including;
 - drawings and technical informations ;
 - installation and maintenance instructions.
 - o inspection and test certificate EN 10204-3.1.
 - o material certificates (execution 2 only).
 - o PED declaration.
 - o ATEX declaration (II 2 G/D).

TECHNICAL INFORMATIONS

Capsule pressure gauge

execution A2/A3: bottom connection for direct mounting.
execution B2: bottom connection for surface mounting with 3-hole fixing.

execution C2/C3: back connection for flush mounting with 3-hole fixing.
execution D2/D3: back connection for direct mounting.

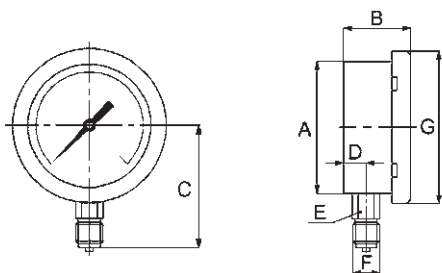


Table BP 322-A2/A3

Model BP322	DN	A	B	C	D	E	F	G	H	I	L	M	N	∅ fori 120°	PESO ~ kg
A3	63	63	34	52	10	14	1/4	63							0,17
A2	100	103	50	92	165	22	1/2	118							0,51
A3	100	98	49	85	16	22	1/2	100							0,49
A2	150	150	50	116	165	22	1/2	166							0,78

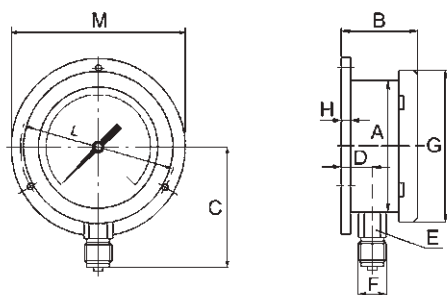


Table BP 322-B2

Model BP322	DN	A	B	C	D	E	F	G	H	I	L	M	N	∅ fori 120°	PESO ~ kg
B2	100	103	57	92	235	22	1/2	118	7		126	140		5	0,64
B2	150	150	57	116	235	22	1/2	166	7		178	192		5	1,02

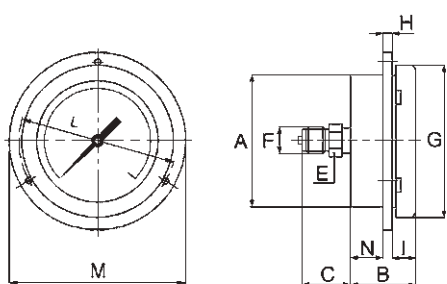


Table BP 322-C2/C3

Model BP322	DN	A	B	C	D	E	F	G	H	I	L	M	N	∅ fori 120°	PESO ~ kg
C3	63	64	38	15		14	1/4	62	2	1,5	75	85	34,5	3,6	0,21
C2	100	103	50	38		22	1/2	118	7	19	126	140	24	5	0,60
C2	150	150	50	38		22	1/2	166	7	19	178	192	24	5	0,91

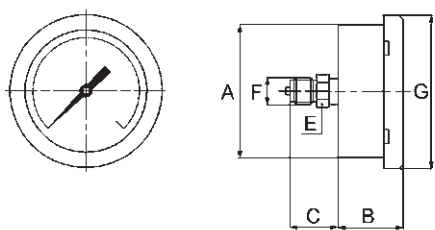


Table BP 322-D2/D3

Model BP322	DN	A	B	C	D	E	F	G	H	I	L	M	N	∅ fori 120°	PESO ~ kg
D3	63	63	38	15		14	1/4	63							0,14
D2	100	103	50	38		22	1/2	118							0,51
D3	100	98	49	38		22	1/2	100							0,49
D2	150	150	50	38		22	1/2	166							0,78

note: informations shown in this series may be changed at any time without prior notice.