since 1878 the first italian factory of pressure gauges and thermometers



SP 100 SERIES

D

Bourdon tube pressure gauges for general purpose

- watertight casing, dry or liquid filled execution;
- ◆ NS 40 50 63 80 100;
- ranges included between 1 and 600 bar.

These instruments are manufactured for all those industry's sectors which require highest quality pressure gauges with stainless steel casing.



TECHNICAL FEATURES

Nominal sizes

- 40 50 63 80 and 100.
- Casing

- case and crimped ring in AISI 304 st. st. (execution G).

- Protection degree (according to EN 60529) - IP 65.
- Window - plastic.
- Blow-out device - blow out plug.
- Filling liquid - glycerine.
- Pressure connection (according to EN 837-1) brass or AISI 316L stainless steel with Gas (BSP), BSPT or NPT thread as F dimension shown in SP tables, otherwise only on request, differenf from those indicated.
- Pressure element
 - phosphor bronze for execution 1;
 AISI 316L stainless steel for execution 2.
- Welding
 - see table SP 3 at page SP11 for execution 1;
 - TIG for execution 2.
- Movement
 - brass for execution 1;
 - stainless steel for execution 2.
- Ranges (according to EN 837-1) o Maximum value:
 - 600 bar.

o Graduation:

- pressure gauges: 0÷1; 0÷1,6; 0÷2,5; 0÷4; 0÷6; 0÷10; 0÷16; 0÷25; 0÷40; 0÷60; 0÷100; 0÷160;
- $0 \div 250; 0 \div 400; 0 \div 600;$ - vacuum gauges: -1÷0.
- (divisions as per table C1 at page P08)
- other graduations not normalized for single or double range (on request only).
- O Unit of pressure:
 bar, kPa, MPa, kg/cm2 and psi for single or double range.
- o Scale angle:
- 270°.

- Working pressure (referred to full scale deflection)
 - steady from 1/10 to 3/4;
 fluctuating from 1/10 to 2/3;

 - pulsating from 1/10 to 1/2.

Over-pressure (occasionally allowed)

- 125% of full scale value for measuring range ≤ 100 bar; - 115% of full scale value for measuring ranges from >100 to \leq 600 bar.
- Pointer
 - aluminium not adjustable.
- Dial

- white aluminium with black figures.

- Accuracy (according to EN 837-1) - class 1,6.
- Ambient temperature - -20 ÷ +60 °C.
- Service conditions - see table SP 3 at page SP05.

Table SP 3 Welding – service conditions													
	Mate	erial	Service conditions										
Welding			Temper	Pressure bar									
	Connection	Pressure element	min.	max	max								
Tin alloy	Brass	Phosphor bronze	-10	80	100								
Silver alloy	Brass	Phosphor bronze	-30	80	600								



APPLICATIONS

 Accessories (see AM series)

OPTIONS

- Silver alloy welding (identification V22)
- Restrictor applicable to pressure connection to reduce the process fluid entry speed. (identification V26)
- Process connection not standard. (identification V42)

- 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)
 - customer's logo. (sigla di identificationV58)

DOCUMENTATION

- Complementary documents
- o certificate of compliance with the order EN 10204-2.2. o technical documentation.
- o PED declaration.

TECHNICAL INFORMATIONS





Table SP 108

DN	А	В	С	D	E	F	G	Н	I	L	М	Ν	Ø fori 120°		~ kg es. F
40	41	25	42	8,5	11	1/8	47							0,06	0,08
50	51	29	51	9	14	1/4	59							0,10	0,14
63	61	31	53	9,5	14	1/4	69								0,18
80	80	31	65	10	14	1/4	89							0,21	0,36
100	101	34	87	11	22	1/2	110								0,89

Pressure gauge with bottom connection for local mounting.





Table SP 111

DN	А	В	С	D	E	F	G	Н	I	L	М	N	Ø fori 120°		~ kg es. F
63	63	30	27	0	14	1/4	69	2,5	6	75	84	21,5	3,6		0,21
80	82	31	27	19	14	1/4	89	1	12	95	110	18	5	0,25	0,40
100	101	34	40	29	22	1/2	110	1	17	118	132	16	6		0,92

Pressure gauge with back connection for flush mounting with 3 fixing holes.

since 1878 the first italian factory of pressure gauges and thermometers



Table SP 112

DN	А	В	С	D	E	F	G	Н	Ι	L	М	Ν	Ø fori 120°	PESO ~ kg
63	61	30	27	0	14	1/4	69	6						0,22
100	101	34	40	29	22	1/2	110	8						0,93

Pressure gauge with back connection for flush mounting with clamp fixing.

DN	A	В	С	D	E	F	G	Н	I	L	М	N	Ø fori 120°	PESO ~ kg es. D es.	
63	61	30	27	0	14	1/4	69								0,19
80	80	31	27	19	14	1/4	89							0,20	0,30
100	101	34	40	29	22	1/2	110								0,86

Pressure gauge with back connection for local mounting.





E С

в

Table SP 115

			В	1
Ī	2	Γ		
- A	F e	⊒∎		G

