



NP SERIES

Standard Bourdon tube pressure gauges

- ◆ copper alloy pressure element assembly;
- ◆ DN 40 - 50 - 63 - 80 - 100;
- ◆ ranges included between -1 and 400 bar.



Table NP 1
Available models and casing type

DN \ NP	301	304	305	306
40	FK XK	FF	FF	FK XK
50	FK XK	FF	FF	FK XK
63	FK XK	FF	FF	FK XK
80	FF	FF	FF	FF
100	FF	FF	FF	FF

Caption:

- FF = painted steel case with painted or chromate steel slip-on ring and glass window
 FK = painted steel case and plastic snap-fit window
 XK = stainless steel case and plastic snap-fit window

TECHNICAL FEATURES

- **Nominal sizes**
 - 40, 50, 63, 80 e 100.
- **Casing**
 - see table NP 1.
- **Window**
 - see table NP 1.
- **Pressure connection (according to EN 837-1)**
 - brass with Gas (BSP), BSPT or NPT thread as F dimension shown in NP tables, otherwise only on request, different from those indicated.
- **Pressure element**
 - phosphor bronze.
- **Welding**
 - tin alloy;
 - tin/silver alloy for temperatures > 65°C and/or pressures > 60 bar.
- **Movement**
 - brass.
- **Ranges (according to EN 837-1)**
 - **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 ÷ 250; 0 ÷ 400;
 - vacuum gauges: -1 ÷ 0;
 - compound gauges: -1 ÷ 0,6; -1 ÷ 1,5; -1 ÷ 3; -1 ÷ 5; -1 ÷ 9; -1 ÷ 15; -1 ÷ 24; (divisions as per table C1 at page P08)
 - other graduations not normalized for single or double range (on request).



- **Unit of pressure:**
 - bar, kPa, MPa, kg/cm² and psi for single or double scale.
- **Scale angle:**
 - 270°.
- note:** working pressure, if constant, has to be included between 1/10 and about 3/4 of full scale value; for fluctuating or pulsating pressures it is suitable to choose a liquid filled instruments of SP series.
- **Over-pressure**
 - not allowed.
- **Pointer**
 - burnished steel - not adjustable.

- **Dial**
 - white aluminium with black figures.
- **Accuracy (according to EN 837-1)**
 - class 1,6 ($\pm 1,6\%$ of full scale deflection) for NS 63, 80 and 100;
 - class 2,5 ($\pm 2,5\%$ of full scale deflection) for NS 40 e 50.
- **Ambient temperature**
 - $-10 \div +60$ °C.
- **Operating temperature**
 - $0 \div +65$ °C with tin alloy welding;
 - $-10 \div +120$ °C with tin/silver alloy welding.

APPLICATIONS

- **Accessories (see AM series)**

OPTION

- **Adjustable red pointer on the window (identification V13)**
- **Red pointer on the dial (identification V14)**
- **Restrictor**
applicable to pressure connection to reduce the process fluid entry speed into the instrument.
(identification V26)

DOCUMENTATION

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

TECHNICAL INFORMATIONS

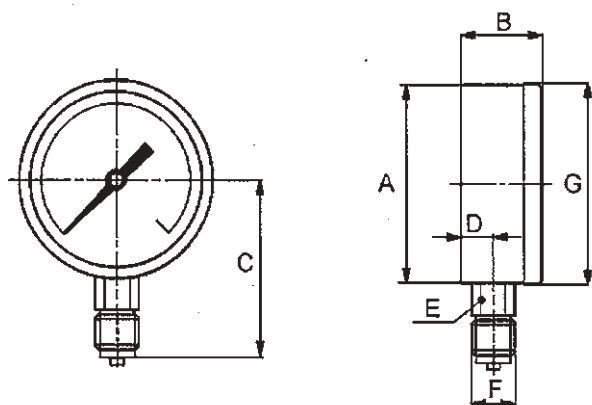


Table NP 301

DN	A	B	C	D	E	F	G	H	I	L	M	N	Ø fori 120°	PESO ~ kg
40	40	25	36	88	12	1/8	40							0,06
50	51	27	46	95	14	1/4	51							0,10
63	63	27	53	10	14	1/4	63							0,13
80	79	32	66	10	14	1/4	81							0,21
100	99	51	87	15	22	1/2	102							0,60

Pressure gauge with bottom connection for local mounting.

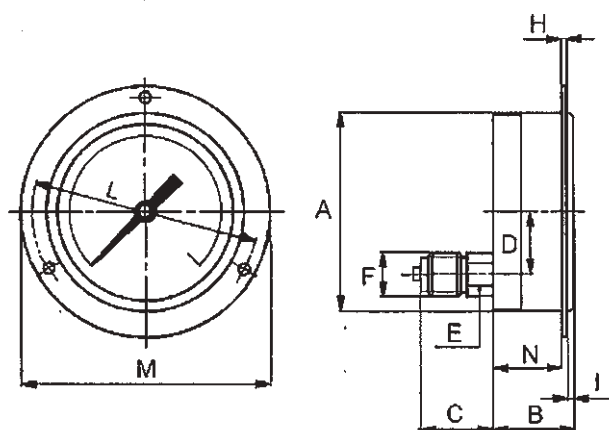


Table NP 304

DN	A	B	C	D	E	F	G	H	I	L	M	N	Ø fori 120°	PESO ~ kg
40	41	28	16	0	12	1/8		2	2	51	61	24	3,6	0,10
50	52	30	20	0	14	1/4		2	2	60	71	26	3,6	0,16
63	64	30	20	0	14	1/4		2	1,5	75	85	26,5	3,6	0,20
80	81	30	20	0	14	1/4		2	2,5	95	110	25,5	5	0,26
100	101	51	35	30	17	1/2		2,5	3,5	118	132	45	6	0,65

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

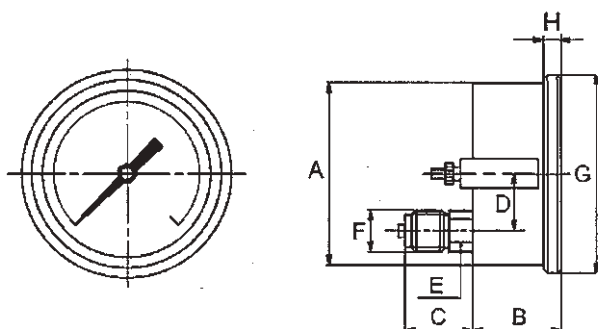


Table NP 305

DN	A	B	C	D	E	F	G	H	I	L	M	N	Ø fori 120°	PESO ~ kg
40	40	28	25	0	12	1/8	44	4,5						0,09
50	51	30	27	0	14	1/4	55	5,5						0,15
63	63	30	27	0	14	1/4	68	7						0,17
80	79	30	27	0	14	1/4	84	7						0,23
100	101	51	35	30	17	1/2	132	7						0,71

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

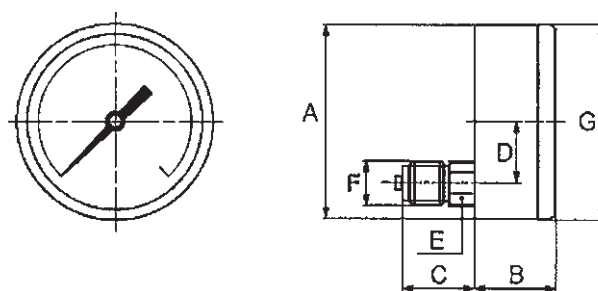


Table NP 306

DN	A	B	C	D	E	F	G	H	I	L	M	N	Ø fori 120°	PESO ~ kg
40	40	25	16	0	12	1/8	40							0,06
50	51	27	20	0	14	1/4	51							0,10
63	63	27	20	0	14	1/4	63							0,13
80	79	32	20	0	14	1/4	81							0,22
100	99	51	35	30	17	1/2	102							0,60

Pressure gauge with back connection for direct mounting.