



BOURDON
The Original by Baumer

EN-837-1

PED

IP 65

Main Features

- For corrosive gasses and liquids
- Class 1 according to EN 837-1
- Inductive electrical contacts
- Wetted parts Stainless steel
- Option : liquid-filled for applications with pulsations or vibrations
- Option : case material 1.4404 (316L) for aggressive atmosphere

Applications

- Food & Beverage
- Laboratory & Medical
- Oil & Gas / Chemical
- Water & Waste water
- Energy
- Transportation & Logistics
- Machinery

Technical Data

Nominal size	150 mm
Measurement range	-1 ... 0 to 0 ... 1600 bar
Pressure limitation	
Ranges < 600 bar	Steady : 100% of full scale value Fluctuating : 90% of full scale value Short time : 130% of full scale value
Ranges ≥ 600 bar	Steady : 75% of full scale value Fluctuating : 65% of full scale value Short time : 100% of full scale value
Accuracy	Class 1 (according EN837-1 and DIN 16085)
Protection rating	IP 65 (EN 60529)
Process Connection	Stainless steel 1.4404 (AISI 316L)
Bourdon tube	Stainless steel 1.4404 (AISI 316L)
Case	Stainless steel 1.4301 (AISI 304)
Bezel ring	Stainless steel 1.4301 (AISI 304)
Movement	Stainless steel
Window	Convex transparent polycarbonate cover with watertight setpoint adjustment knob
Window gasket	Elastomer
Dial	Aluminium, white
Pointer	Aluminium, black
Thermal drift	± 0.4% F.S. / 10 K (reference : 20°C)

Temperature	Ambient : -20 ... +70°C Medium : -40 ... +200°C (not filled) For liquid filled version see ordering details. The case temperature must not exceed +70°C Storage : -40 ... +70°C
Contacts	Inductive contacts with sensor according to EN 60947-5-6 (NAMUR), sensor type SJ2-N
Setpoints	1 or 2
Electrical connection	Connecting box with terminal block Cable gland M20 x 1.5 for cable Ø 7 to 13 mm (others on request)
Minimum pressure range	1 contact 1 bar 2 contacts 1.6 bar

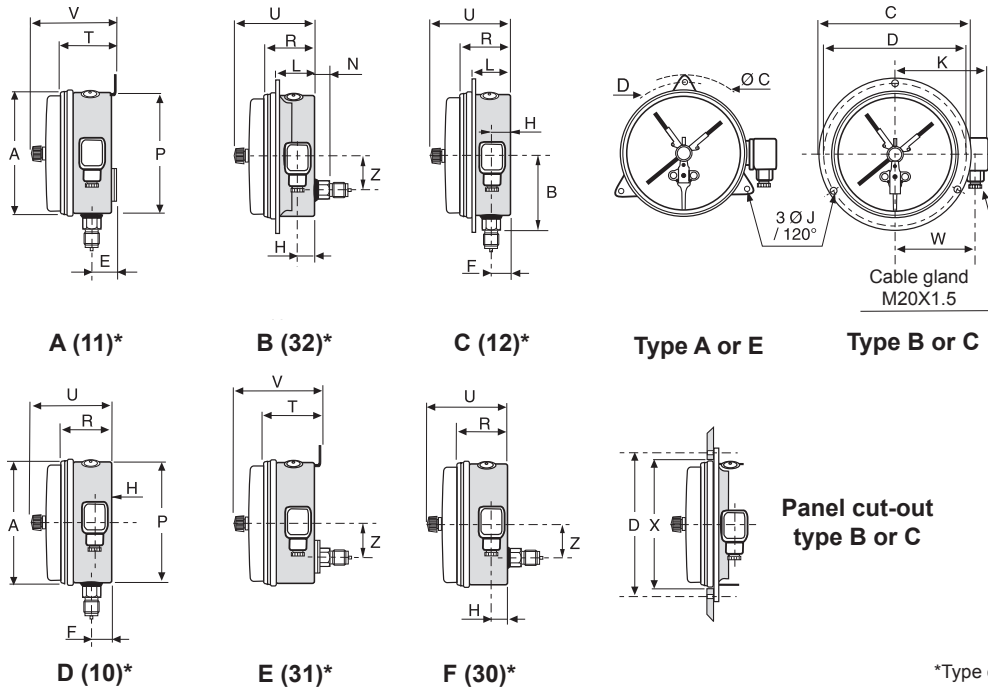
Options

Restrictor screw Ø 0.5 (for fittings > 1/4")	Code 0771
Stainless steel 1.4404 (AISI 316L) solid drawn Bourdon tube	Code 0816

To be ordered separately

Material certificate 3.1 EN10204	Code Q003
Calibration certificate EN837-1 (5 points raising and 5 points falling)	Code Q009

Dimensions - Types of mounting



mm	A	B	C	D	E	F	H	J	K	L	N	P	R	T	U	V	W	X	Z
NS 150	150.2	85	180	168	25.5	23	19	5.5	111	39.3	17	142	54.5	57	105	110	96	151	31.5

Pressure ranges

Code	Bar	Code	kPa	Code	kg/cm ²	Code	psi
B59	-1 ... 0	D59	-100 ... 0	F59	-1 ... 0	H59	-30" Hg ... 0
B72	-1 ... 0.6	D72	-100 ... 60	F72	-1 ... 0.6	H73	-30" Hg ... 15
B74	-1 ... 1.5	D74	-100 ... 150	F74	-1 ... 1.5	H75	-30" Hg ... 30
B76	-1 ... 3	D76	-100 ... 300	F76	-1 ... 3	H2C	-30" Hg ... 60
B77	-1 ... 5	D77	-100 ... 500	F77	-1 ... 5	H78	-30" Hg ... 100
B79	-1 ... 9	D79	-100 ... 900	F79	-1 ... 9	H79	-30" Hg ... 150
B81	-1 ... 15	D81	-100 ... 1 500	F81	-1 ... 15	H81	-30" Hg ... 220
B82	-1 ... 24	D82	-100 ... 2 400	F82	-1 ... 24	H82	-30" Hg ... 300
B15	0 ... 1	D15	0 ... 100	F15	0 ... 1	H15	0 ... 15
B16	0 ... 1.6	D16	0 ... 160	F16	0 ... 1.6	H1C	0 ... 20
B18	0 ... 2.5	D18	0 ... 250	F18	0 ... 2.5	H17	0 ... 30
B19	0 ... 4	D19	0 ... 400	F19	0 ... 4	H19	0 ... 60
B20	0 ... 6	D20	0 ... 600	F20	0 ... 6	H21	0 ... 100
B22	0 ... 10	D22	0 ... 1 000	F22	0 ... 10	H22	0 ... 160
B24	0 ... 16	D24	0 ... 1 600	F24	0 ... 16	H23	0 ... 200
B26	0 ... 25	D26	0 ... 2 500	F26	0 ... 25	H25	0 ... 300
B27	0 ... 40	D27	0 ... 4 000	F27	0 ... 40	H26	0 ... 400
B29	0 ... 60	D29	0 ... 6 000	F29	0 ... 60	H27	0 ... 600
B31	0 ... 100	D31	0 ... 10 000	F31	0 ... 100	H30	0 ... 1 000
B33	0 ... 160	D33	0 ... 16 000	F33	0 ... 160	H31	0 ... 1 500
B35	0 ... 250	D35	0 ... 25 000	F35	0 ... 250	H34	0 ... 3 000
B38	0 ... 400	D38	0 ... 40 000	F38	0 ... 400	H38	0 ... 6 000
B39	0 ... 600	D39	0 ... 60 000	F39	0 ... 600	H40	0 ... 10 000
B41	0 ... 1 000	D41	0 ... 100 000	F41	0 ... 1 000	H41	0 ... 15 000
B42	0 ... 1 600	D42	0 ... 160 000	F42	0 ... 1 600	H1D	0 ... 20 000

Ordering details M37

M 3 7 - . xxx /

Model

Pressure gauge with electrical contacts

Type of contacts

Inductive contacts

Nominal size

150 mm

Contact function

N° Setpoints

Sensor type

Contact type

Contact function	N° Setpoints	Sensor type	Contact type
Contact breaks ⁽¹⁾	1	SJ2-N	8002
Contact makes ⁽¹⁾	1	SJ2-N	8001
1st contact breaks / 2nd contact makes ⁽¹⁾	2	SJ2-N	8021
1st contact breaks / 2nd contact breaks ⁽¹⁾	2	SJ2-N	8022
1st contact makes / 2nd contact makes ⁽¹⁾	2	SJ2-N	8011
1st contact makes / 2nd contact breaks ⁽¹⁾	2	SJ2-N	8012

Type of mounting

Stainless steel case and bezel ring 1.4301 (AISI 304)

Bottom connection, 3 back lugs fixing

Back connection, front flange, 3 mounting holes

Bottom connection, front flange

Bottom connection

Back connection, 3 back lugs fixing

Back connection

Stainless steel case and bezel ring 1.4404 (AISI 316L)

Bottom connection, 3 back lugs fixing

Back connection, front flange, 3 mounting holes

Bottom connection, front flange

Bottom connection

Back connection, 3 back lugs fixing

Back connection

Process connection

G 1/4

G 1/2

1/4 NPT

1/2 NPT

Liquid filling

Dry

BH3: silicone oil (medium : -40 ... +100°C)

BH5: fluor carbon for oxygen use (160 bar max.) (medium -15 ... +100°C)

Unit of measurement / Pressure ranges ⁽²⁾

bar

psi

kPa

MPa

kg/cm²

Bxx

Hxx

Dxx

Exx

Fxx

Options to be added behind the / (see example below)

⁽¹⁾ With clockwise pointer motion

⁽²⁾ Available standard pressures ranges, see tables on page 2. For ranges not listed, please contact Baumer.

Ordering example with options

M 3 7 - 1 A 3 0 . B22 / 0771

Pressure gauge with electrical contacts

Inductive contact

Nominal size 150 mm

1 contact breaks

Bottom connection, 3 back lugs fixing, case material 1.4301

Process connection G 1/2

No liquid filling

Scale bar : 0 ... 10 bar

Option : Restrictor screw Ø 0.5