



BOURDON
The Original by Baumer

EN-837



Main Features

- For corrosive gasses and liquids
- Class 1 according to EN 837-1
- Wetted parts Stainless steel (MJX) or Monel (MMJ)
- 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		Bezel ring	Stainless steel 1.4301 (AISI 304) Option : stainless steel 1.4404 (AISI 316L)
Measurement range	MJX :	-1 ... 0 to 0 ... 1600 bar	Movement	Stainless steel
	MMJ :	-1 ... 0 to 0 ... 600 bar	Window	Laminated safety glass
Pressure limitation			Window gasket	Elastomer
Ranges ≤ 600 bar	Steady :	100% of full scale value	Dial	Aluminium, white
	Fluctuating :	90% of full scale value	Pointer	Aluminium, black
	Short time :	130% of full scale value	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
Ranges ≥ 1000 bar	Steady :	75% of full scale value	Thermal drift	± 0.4% F.S. / 10 K (reference : 20°C)
	Fluctuating :	65% of full scale value	Baffle wall	Stainless steel 1.4301 (AISI 304) Fixed by screws inside the case
	Short time :	100% of full scale value	Safety	S1 according EN837-1 Pressure gauge with blow-out device
Accuracy	Class 1 (according EN837-1)			
Protection rating	IP 65 (EN 60529)			
Process Connection	MJX :	Stainless steel 1.4404 (AISI 316L)		
	MMJ :	Monel 400		
Bourdon tube	MJX :	Stainless steel 1.4404 (AISI 316L)		
	MMJ :	Monel 400		
Case	Stainless steel 1.4301 (AISI 304) Option : Stainless steel 1.4404 (AISI 316L)			

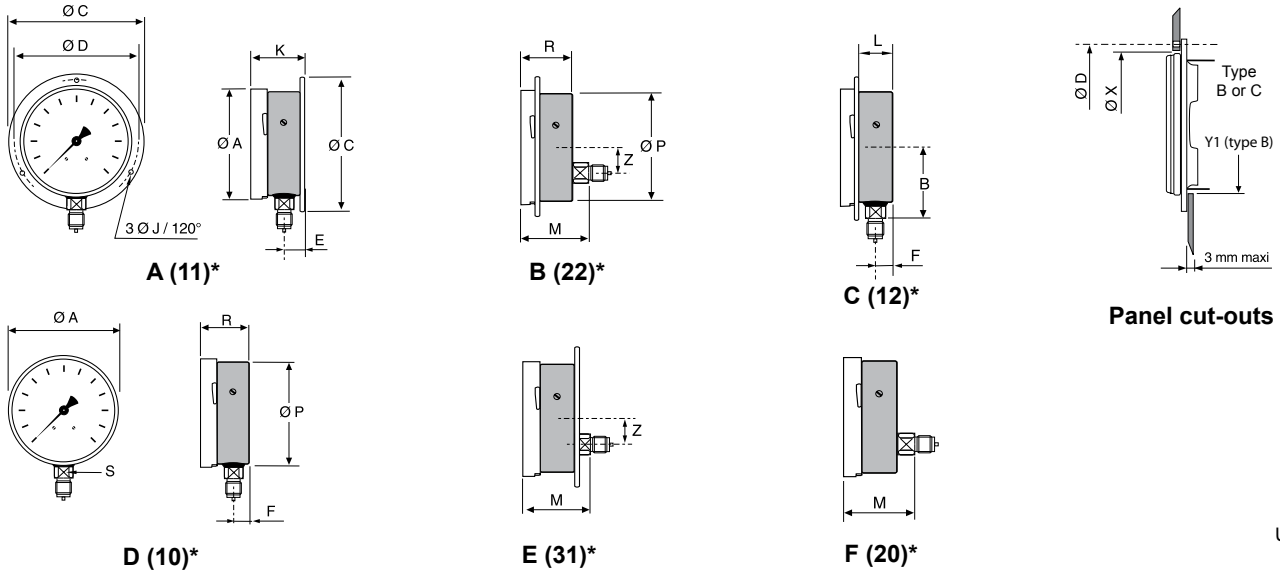
Options

ATEX II2GDc-IM2c	Code 0078
Adjustable micro metric pointer (P ≥ 1.6 bar)	Code 0678
Adjustable friction pointer	Code 0679
Restrictor screw Ø 0.5 (for fittings > 1/4")	Code 0771
Stainless steel 1.4404 (AISI 316L) solid drawn Bourdon tube	Code 0816
Accuracy class	0.5 P > 1 bar Code 0843
	0.6 P > 1 bar Code 0840

To be ordered separately

Material certificate 3.1 EN10204	Code Q1229
Calibration certificate EN837-1 (5 points raising and 5 points falling)	Code Q1070

Dimensions - Types of mounting



*Type of mounting according to EN837-1 in brackets

mm	A	B	C	D	E	F	J	K	L	M	P	R	S	W	X	Y1	Z
NS 150	150.2	85	180	168	25.5	23.5	5.5	56.5	37.5	68.5	142	54.5	22	152	151	145	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
B12	0 ... 0.6	D12	0 ... 60	F12	0 ... 0.6	H13	0 ... 10
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 MJX7 - MMJ7

	7	-			.	xxx	/
Model							
All stainless steel pressure gauge	MJX						
Pressure gauge with monel Bourdon tube ⁽¹⁾	MMJ						
Nominal size							
150 mm	7						
		-					
Type of mounting							
Stainless steel case and bezel ring 1.4301 (AISI 304)							
Bottom connection, 3 back lugs fixing							A
Back connection, front flange, 3 mounting holes							B
Bottom connection, front flange, 3 mounting holes							C
Bottom connection							D
Back connection, 3 back lugs fixing							E
Back connection							F
Stainless steel case and bezel ring 1.4404 (AISI 316L)							
Bottom connection, 3 back lugs fixing							1
Back connection, front flange, 3 mounting holes							2
Bottom connection, front flange, 3 mounting holes							3
Bottom connection							4
Back connection, 3 back lugs fixing							5
Back connection							6
Process connection							
G 1/4							2
G 1/2							3
1/4 NPT							5
1/2 NPT							6
Liquid filling							
Dry							0
BH1: low viscosity glycerin/water 86% (medium : -20 ... +70°C) ⁽²⁾							1
BH2: high viscosity glycerin 99.5% (medium : 0 ... +90°C) ⁽²⁾							2
BH3: silicone oil (medium : -40 ... +100°C) ⁽²⁾							3
BH4: silicone oil (medium : -60 ... +100°C) ⁽²⁾							4
Unit of measurement / Pressure ranges ⁽³⁾							
bar							Bxx
psi							Hxx
kPa							Dxx
kg/cm ²							Fxx
bar / psi (double scale)							Kxx
psi / bar (double scale)							Sxx
Options to be added behind the / (see example below)							

(▶ Standard version)

⁽¹⁾ Monel version is not available for pressure ranges x41, x42 and H1D

⁽²⁾ Pressure range 0.6 bar: accuracy cl. 2.5 with BH1, BH3 and BH4, not available with BH2

⁽³⁾ Available standard pressures ranges, see tables on page 2. For ranges not listed, please contact Baumer.

Ordering example with options

	MJX	7	-	B	6	0	.	B22	/	0678	-	0771
All stainless steel pressure gauge	←											
Nominal size 150 mm	←											
Back connection, front flange, 3 mounting holes, case material 1.4301	←											
Process connection 1/2 NPT	←											
No liquid filling	←											
Scale bar : 0 ... 10 bar	←											
Option : Adjustable micro metric pointer (P ≥ 1.6 bar)	←											
Option : Restrictor screw Ø 0.5	←											