



**BOURDON**  
The Original by Baumer



### Main Features

- For corrosive gasses and liquids
- Class 1 according to EN 837-1
- Wetted parts Stainless steel (MIX) or Monel (MIM)
- Lloyds Register Approval
- 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	MIX :	-1 ... 0 to 0 ... 1600 bar	Movement	Stainless steel
	MIM :	-1 ... 0 to 0 ... 600 bar	Window	Instrument 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 > 600 bar	Steady :	75% of full scale value	Thermal drift	± 0.4% F.S. / 10 K (reference : 20°C)
	Fluctuating :	65% of full scale value	Safety	S1 according EN837-1 Pressure gauge with blow-out device
	Short time :	100% of full scale value		
Accuracy	Class 1 (according EN837-1)			
Protection rating	IP 65 (EN 60529)			
Process Connection	MIX :	Stainless steel 1.4404 (AISI 316L)		
	MIM :	Monel 400		
Bourdon tube	MIX :	Stainless steel 1.4404 (AISI 316L)		
	MIM :	Monel 400		
Case	Stainless steel 1.4301 (AISI 304) Option : stainless steel 1.4404 (AISI 316L)			

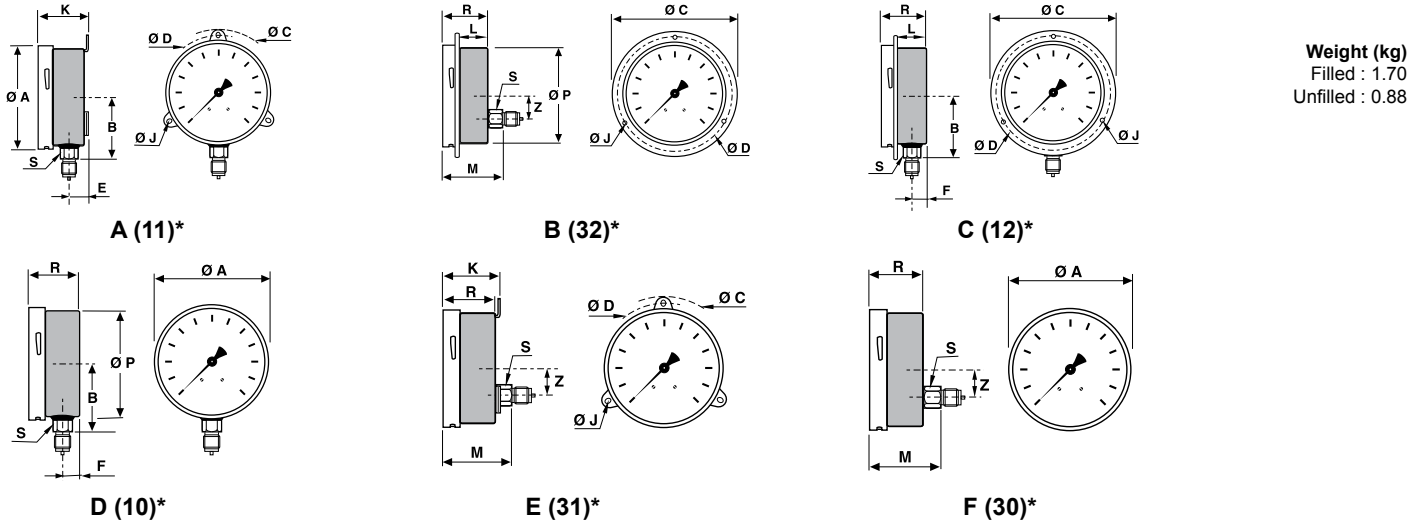
### Options

ATEX II2GDc-IM2c (Including window laminated safety glass)	Code 0078
Adjustable micro metric pointer (P ≥ 1.6 bar)	Code 0678
Adjustable friction pointer	Code 0679
Window laminated safety glass	Code 0751
Window polycarbonate	Code 0753
Blow out disc at the back	Code 0760
Restrictor screw Ø 0.5 (for fittings > 1/4")	Code 0771
Stainless steel 1.4404 (AISI 316L) solid drawn Bourdon tube	Code 0816
Lloyd's Register approval	Code 0827
Accuracy class 0.6 (For pressure gauge not filled and P < 1000 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



Panel cut-outs for type B and C =  $\varnothing$  145 mm  
\*Type of mounting according to EN837-1 in brackets

mm	A	B	C	D	E	F	J	K	L	M	P	R	S	Z
<b>NS 150</b>	150.2	85	180	168	25.5	23.5	5.5	56.5	37.5	68.5	142	54.5	22	31.5

## Pressure ranges

Code	Bar
B58	-0.6 ... 0
B59	-1 ... 0
B72	-1 ... 0.6
B74	-1 ... 1.5
B76	-1 ... 3
B77	-1 ... 5
B79	-1 ... 9
B81	-1 ... 15
B82	-1 ... 24
B12	0 ... 0.6
B15	0 ... 1
B16	0 ... 1.6
B18	0 ... 2.5
B19	0 ... 4
B20	0 ... 6
B22	0 ... 10
B24	0 ... 16
B26	0 ... 25
B27	0 ... 40
B29	0 ... 60
B31	0 ... 100
B33	0 ... 160
B35	0 ... 250
B38	0 ... 400
B39	0 ... 600
B41	0 ... 1 000
B42	0 ... 1 600

Code	kPa
D58	-60 ... 0
D59	-100 ... 0
D72	-100 ... 60
D74	-100 ... 150
D76	-100 ... 300
D77	-100 ... 500
D79	-100 ... 900
D81	-100 ... 1 500
D82	-100 ... 2 400
D12	0 ... 60
D15	0 ... 100
D16	0 ... 160
D18	0 ... 250
D19	0 ... 400
D20	0 ... 600
D22	0 ... 1 000
D24	0 ... 1 600
D26	0 ... 2 500
D27	0 ... 4 000
D29	0 ... 6 000
D31	0 ... 10 000
D33	0 ... 16 000
D35	0 ... 25 000
D38	0 ... 40 000
D39	0 ... 60 000

Code	kg/cm <sup>2</sup>
F58	-0.6 ... 0
F59	-1 ... 0
F72	-1 ... 0.6
F74	-1 ... 1.5
F76	-1 ... 3
F77	-1 ... 5
F79	-1 ... 9
F81	-1 ... 15
F82	-1 ... 24
F12	0 ... 0.6
F15	0 ... 1
F16	0 ... 1.6
F18	0 ... 2.5
F19	0 ... 4
F20	0 ... 6
F22	0 ... 10
F24	0 ... 16
F26	0 ... 25
F27	0 ... 40
F29	0 ... 60
F31	0 ... 100
F33	0 ... 160
F35	0 ... 250
F38	0 ... 400
F39	0 ... 600
F41	0 ... 1 000
F42	0 ... 1 600

Code	psi
H59	-30" Hg ... 0
H73	-30" Hg ... 15
H75	-30" Hg ... 30
H2C	-30" Hg ... 60
H78	-30" Hg ... 100
H79	-30" Hg ... 150
H81	-30" Hg ... 220
H82	-30" Hg ... 300
H13	0 ... 10
H15	0 ... 15
H1C	0 ... 20
H17	0 ... 30
H19	0 ... 60
H21	0 ... 100
H22	0 ... 160
H23	0 ... 200
H25	0 ... 300
H26	0 ... 400
H27	0 ... 600
H30	0 ... 1 000
H31	0 ... 1 500
H34	0 ... 3 000
H38	0 ... 6 000
H40	0 ... 10 000
H41	0 ... 15 000
H1D	0 ... 20 000

## Ordering details MIX7 - MIM7

	7	-		.	xxx	/
<b>Model</b>						
All stainless steel pressure gauge	MIX					
Pressure gauge with monel Bourdon tube <sup>(1)</sup>	MIM					
<b>Nominal size</b>						
150 mm	7					
<b>Type of mounting</b>						
<b>Stainless steel case and bezel ring 1.4301 (AISI 304)</b>						
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
<b>Stainless steel case and bezel ring 1.4404 (AISI 316L)</b>						
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
<b>Process connection</b>						
G 1/4						2
G 1/2						▶ 3
1/4 NPT						5
1/2 NPT						▶ 6
M20 x 1.5						9
<b>Liquid filling</b>						
Dry						▶ 0
BH1 : low viscosity glycerin/water 86% (medium : -20 ... +70°C) <sup>(2)</sup>						1
BH2 : high viscosity glycerin 99.5% (medium : 0 ... +90°C) <sup>(2)</sup>						2
BH3 : silicone oil (medium : -40 ... +100°C) <sup>(2)</sup>						3
<b>Unit of measurement / Pressure ranges <sup>(3)</sup></b>						
bar						▶ Bxx
psi						▶ Hxx
kPa						▶ Dxx
MPa						Exx
mbar						Nxx
kg/cm <sup>2</sup>						Fxx
bar / psi (double scale)						Kxx
psi / bar (double scale)						Sxx
psi / kPa (double scale)						Vxx
kPa / psi (double scale)						Wxx
kg/cm <sup>2</sup> / psi (double scale)						5xx

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

( ▶ Standard version)

<sup>(1)</sup> Monel version is not available for pressure ranges x41, x42, H1D and x58

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

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

## Ordering example with options

