



BOURDON
The Original by Baumer

Main Features

- For corrosive gasses and liquids
- Class 1 according to EN 837-1
- Wetted parts Stainless steel (MEP) or Monel (MMN)
- Lloyds Register Approval
- Safety version S3 according to EN 837-1
- 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	100 mm
Measurement range	MEP : -1 ... 0 to 0 ... 1600 bar MMN : -1 ... 0 to 0 ... 600 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)
Protection rating	IP 67 (EN 60529)
Process Connection	MEP : Stainless steel 1.4404 (AISI 316L) MMN : Monel 400
Bourdon tube	MEP : Stainless steel 1.4404 (AISI 316L) MMN : Monel 400
Case	Stainless steel 1.4301 (AISI 304) Option : stainless steel 1.4404 (AISI 316L)

Bezel ring	Stainless steel 1.4301 (AISI 304) Option : stainless steel 1.4404 (AISI 316L)
Movement	Stainless steel
Window	Laminated safety glass
Window gasket	Elastomer
Dial	Aluminium, white
Pointer	Aluminium, black
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
Thermal drift	± 0.4% F.S. / 10 K (reference : 20°C)
Safety	S3 according EN837-1 Safety pattern gauge with baffle wall and blow-out back

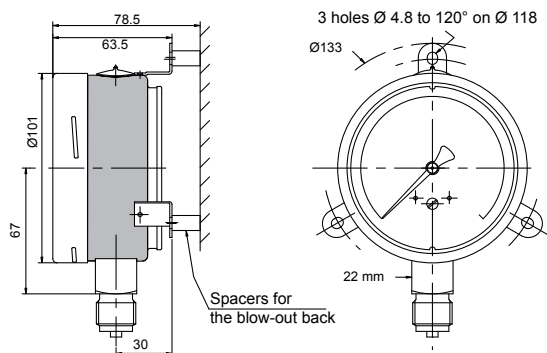
Options

ATEX II2GDc-IM2c	Code 0078
Adjustable micro metric pointer (P ≥ 1.6 bar)	Code 0678
Adjustable friction pointer	Code 0679
Window polycarbonate	Code 0753
Oxygen application	Code 0765
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

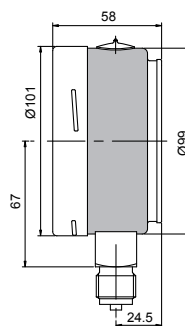
To be ordered separately

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

Dimensions - Types of mounting



A (11)*



D (10)*

Weight (kg)
Filled : 0.850
Unfilled : 0.600

*Type of mounting according to EN837-1 in brackets

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 ²	
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 MEP5 - MMN5

		5	-				.	xxx	/
Model									
All stainless steel pressure gauge	MEP								
Pressure gauge with monel Bourdon tube ⁽¹⁾	MMN								
Nominal size									
100 mm		5							
			-						
Type of mounting									
Stainless steel case and bezel ring 1.4301 (AISI 304)									
Bottom connection, 3 back lugs fixing								A	
Bottom connection								D	
Stainless steel case and bezel ring 1.4404 (AISI 316L)									
Bottom connection, 3 back lugs fixing								1	
Bottom connection								4	
Process connection									
G 1/4								2	
G 1/2								3	
1/4 NPT								5	
1/2 NPT								6	
M20 x 1.5								9	
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	
BH5: fluor carbon for oxygen use (160 bar max.) (-15 ... +100°C) ⁽²⁾								5	
Unit of measurement / Pressure ranges ⁽³⁾									
bar								Bxx	
psi								Hxx	
kPa								Dxx	
MPa								Exx	
mbar								Nxx	
kg/cm ²								Fxx	
bar / psi (double scale)								Kxx	
psi / bar (double scale)								Sxx	
psi / kPa (double scale)								Vxx	
kPa / psi (double scale)								Wxx	
kg/cm ² / psi (double scale)								5xx	
Options to be added behind the / (see example below)									/

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

⁽²⁾ Pressure range 0.6 bar: accuracy cl. 2.5 with BH1, BH3 and BH5, not available with BH2

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

(▶ Standard version)

Ordering example with options

	MEP	5	-	D	3	0	.	B22	/	0078	-	0771	-	0679
All stainless steel pressure gauge														
Nominal size 100 mm														
Bottom connection, case material 1.4301														
Process connection G1/2														
No liquid filling														
Scale bar : 0 ... 10 bar														
Option : ATEX Version														
Option : Restrictor screw Ø 0.5														
Option : Adjustable friction pointer														