



MMA Industrial gauges

Ø 100 - 150 - 160 mm

Momentary overpressure allowed

Tight, can be filled with a dampening liquid

Class 1 accuracy

Conforms to EN 837 standard (except dia. 160 mm)

The gauges of the MMA series have been designed to fulfil most industrial requirements such as those linked to : pneumatic and hydraulic systems, compressors, pumps, etc...

The rugged design of these gauges is a guarantee of a long lifetime. They are designed for all industrial applications with corrosive or non corrosive fluids (depending on the sensing element and connection material) in non aggressive environments.



Specifications (20°C)

Ranges	From - 1...0 bar (0 psi) to 0...+1600 bar (20000 psi) see standard graduations below. With scales for vacuum, compound (pressure and vacuum) and pneumatic receiver (linear or square root). Momentary overpressure allowed : + 30 % up to 100 bar and +15 % over 100 bar.	Pointer	Aluminium alloy, balanced, black painted.
Standard accuracy	± 1 % of full scale ± 2 % of full scale for 0...+0,4 bar (6 psi).	Blow-out disc	Elastomer. Positioned at the top of the pressure gauge. Ensures pressure balance with atmosphere.
IP rating	IP 65 selon NF EN 60529.	Window	Sheet glass : 3 mm for diameter 100 - 150 mm 4 mm for diameter 160 mm
Sensing element and connection		Window gasket	Elastomer
		Connection block sealing	Elastomer.
		Movement	Stainless steel, with zero and overpressure stop.

	RANGE	
	P ≤ 60 bar*	P ≥ 60 bar
CONNECTION MATERIAL	Brass	1.4401 (AISI 316) Stainless steel
CONNECTION SHAPE	23 mm hexagonal	22 mm square
THREAD	G 1/2 or 1/2 NPT	
SENSING ELEMENT MATERIAL	Brass	1.4401 (AISI 316) Stainless steel
TUBE SHAPE	C Shaped	Helical
TUBE CONNECTION ASSEMBLY	Tin-soldered	Argon-arc welded
OPERATING TEMPERATURE	°C	°C
Process fluid temperature	- 40 to + 100	- 40 to + 200
Ambient temperature	- 40 to + 100	- 40 to + 100

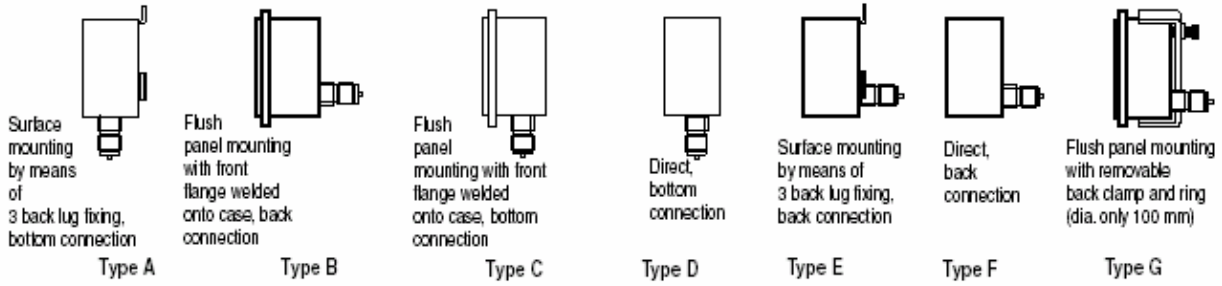
* P < 60 bar, stainless steel tube available : MAX

Case and bezelring
Pressed steel, grey painted
Bezelring: Chromium plated steel except dia 160 mm (1.4301/AISI 304 SS).
Bayonet lock type.

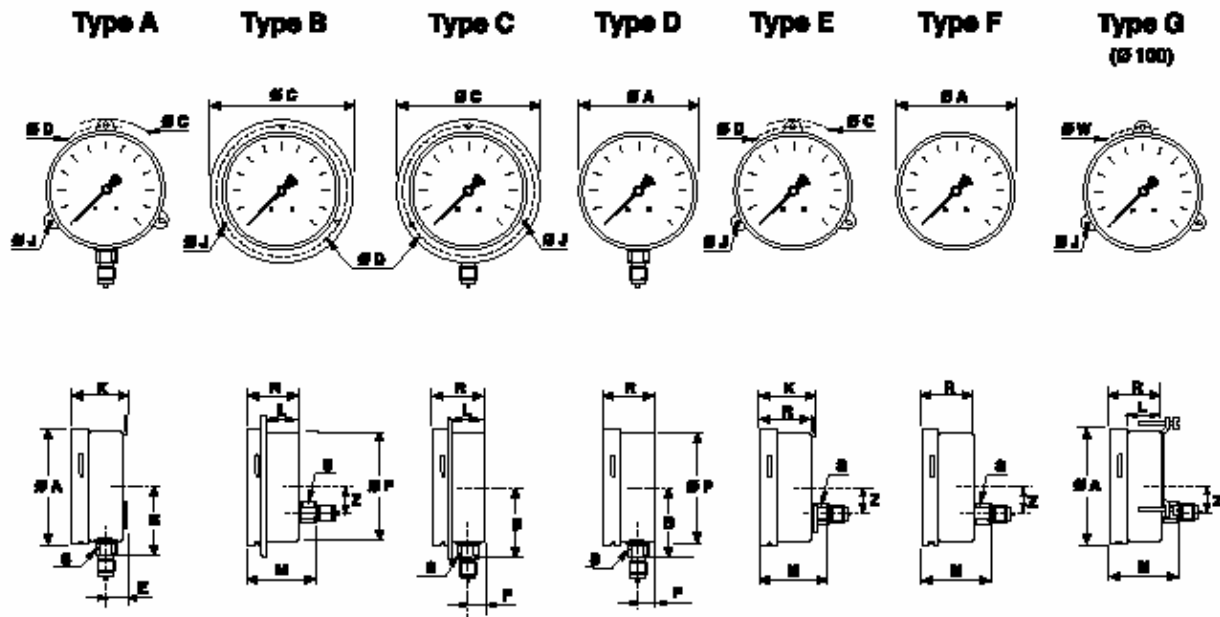
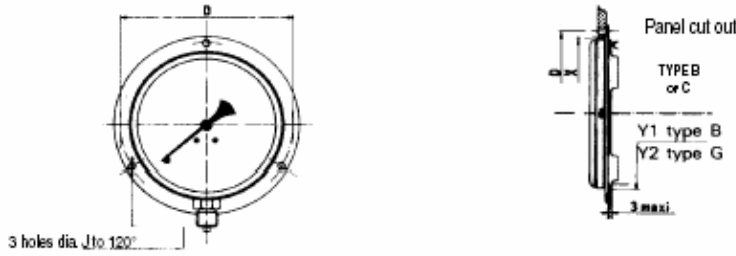
Dial
Aluminium alloy.
Black graduations and figures on white back ground.



Type of mounting



Dimensions (mm)



Tube material																							
	A	B	C	D	E	F	J	K	L	M	P	R	S	W	X	Y1	Y2	Z	Z				
St. steel																							
Bronze					E	F				M			S						Z				
100	106.2	63	130	118	25.5	26.4	23	24	5.5	56.5	39.3	68.5	67.5	98	54.5	22	23	106	107	101	99	31.5	30
150	150.2	95	190	168	25.5	26.4	27	24.5	5.5	56.5	39.3	68.5	67.5	142	54.5	22	23	-	151	145	-	31.5	30
160	160.2	99	190	178	23.7	23.7	21.7	21.7	5.5	57.5	27.7	74.5	74.5	152	55.5	22	22	-	161	155	-	54	54

Dia. mm	Weight in Kg - Type D	
	Unfilled	Filled
100	0.570	0.950
150	0.880	1.700
160	0.930	1.950

Nota : B - E - F types are not available in ϕ 160 mm.