

MPG-MPJ-MPE-MPF Safety gauges "turrett"

Ø 130 mm (41/2") to ANSI B40.1 standard)

Polypropylene case (MPG, MPJ), optional :
phenolic case (MPE, MPF)

Accuracy $\pm 0.5\%$ (Grade 2 A)

Unit of measurement in bar, psi, kg/cm², kPa

Watertight, fillable with dampening fluid

Withstands corrosive fluids and atmospheres

Sensing element: stainless steel (MPG, MPE) or
monel (MPF, MPJ)

These gauges have been designed to fulfil requirements of the process industries (petrochemical, biochemical and power).

With safety in mind, they have been developed with solid front and blow-out back which will immediately release in the event of accidental tube rupture.

Watertight and fillable with dampening liquid, the gauge design includes a special compensation diaphragm which maintains accuracy by equalizing internal and atmospheric pressures.



Specifications (20°C)

Ranges	MPG-MPE : from -1 ... 0 to 0 ... 1600 bar MPJ-MPF : from -1 ... 0 to 0 ... 600 bar Transient overpressure allowed: + 30 % up to 100 bar + 15 % from 100 bar
Accuracy	$\pm 0.5\%$ to ANSI B 40.1 standard (Grade 2A). 0.6 bar filled and 0.4 bar dry : Grade B. 1 bar filled and 0.6 bar dry : Grade 1A.
Protection rating	IP 65
Connection	MPG : 1.4404 (AISI 316L) stainless steel MPJ : Monel 400
Sensing element	MPG : $P \leq 2.5$ bar and $P \geq 1000$ bar : 1.4404 (316L) - solid drawn tube $2.5 < P < 1000$ bar : 1.4571 (316 Ti) - rolled welded tube MPJ : Monel 400 C tube : $P < 60$ bar Helicoil tube : $P \geq 60$ bar - welded to the connection
Gauge working temperature	-20 ... 70°C The gauge may be used on fluid temperatures up to 200°C providing that the gauge temperature does not exceed 70°C.
Case	Turrett style moulded. With built-in solid front, finished black. Material : UL 94 VO (auto-extinguishable) MPG-MPJ : polypropylene MPE-MPF : phenolic case
Bezel ring	Polypropylene reinforced with fiberglass
Window	Polymethacrylate (plexiglas)
Window gasket	Elastomer
Connection sealing	Elastomer
Movement	Stainless steel, with zero stop and overrange stop
Dial	Aluminium alloy. Black figures on white background
Pointer	Aluminium alloy, painted black, micrometer adjustable.
Compensating diaphragm	Elastomer. With integral "O" ring.
Blow-out back	Polypropylene reinforced with fiberglass.
Filling plug	Elastomer.

Options

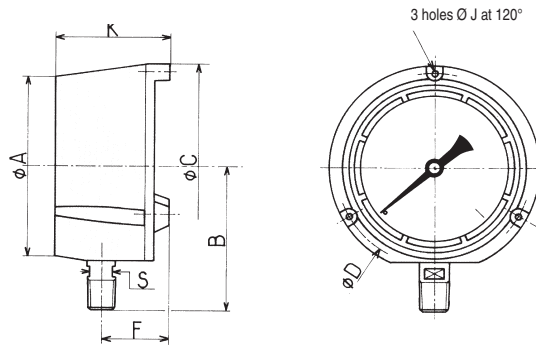
Special graduations **consult us**
Special connections smaller than or equal to G1/2
Overrange protection devices
RAS 1, Accuracy $\pm 1\%$, $P \leq 600$ bar **Code 0191**
MPG-MPE For overrange between 1.2 and 3 times the scale.
MPJ-MPF for overrange between 1.2 and 1.5 times the scale.
RAS 2, Accuracy $\pm 2\%$, $P \leq 1000$ bar **Code 0192**
MPG-MPE For overrange between 1.4 and 5 times the scale.
MPJ-MPF for overrange between 1.3 and 2.5 times the scale.
Anti-vibration dampening movement : **Code 0655**
Ranges 0...1 bar ; 0...1.6 bar ; 0...2.5 bar ; Accuracy $\pm 1.6\%$
Ranges $P > 2.5$ bar ; Accuracy $\pm 1\%$
This device can, in certain cases, replace the BH version.
Oxygen application **Code 0765**



Baumer

Dimensions (mm)

Types A and D



Sizes : MPG / MPJ

Ø	A	B	C	D	F*	J	K*	S
130	129	102	148	137	38	5.6	43	15.9
4"1/2	5"5/64	4"1/64	5"53/64	5"25/64	1"1/2	7/32	2"7/8	5/8

* Optional : phenol case MPE / MPF

Ø	F*	K*
130	42.5	79
4"1/2	1"43/64	3"7/64

Weight (kg)		
Not filled	MPE	MPG/MPJ
	0.90	0.68
Filled	1.50	1.30

Ordering Details - MPG-MPJ-MPE-MPF

Family		MPx6xxxxxx	
Pressure gauges		M	
Type	2'...3' digit	PG	
MPG		PJ	
MPJ		PE	
MPE		PF	
MPF			
Nominal diameter	4' digit	6	
Ø 130 mm (4"1/2)			
Type of mounting	5' digit	A	
bottom connection, back flange		D	
bottom connection			
Pressure connection	6' digit	3	
G1/2		6	
1/2 NPT			
Type of liquid filling	7' digit	0	
without filling		1	
BH1 filling (- 20° to + 70 °C) (1)		2	
BH2 filling (0° to + 90 °C) (1) (2)		3	
BH3 filling (- 40° to + 100 °C) (1)		4	
BH4 filling (- 60° to + 100 °C) (1)		5	
BH5 filling (- 15° to + 100 °C) (1)		6	
BH7 filling (- 35° to + 100 °C) (1)		7	
Unit of measurement	8' digit	B	
bar		D	
kPa		F	
kg/cm ²		H	
psi			
Pressure range	9'...10' digit	xx	
See codes in table			

coding	Ranges bar			coding	Ranges psi		
59	-1	+	0	59	-30"Hg	+	0
72	-1	+	0.6	73	-30"Hg	+	15
74	-1	+	1.5	75	-30"Hg	+	30
76	-1	+	3	2C	-30"Hg	+	60
77	-1	+	5	78	-30"Hg	+	100
79	-1	+	9	79	-30"Hg	+	150
81	-1	+	15	80	-30"Hg	+	200
82	-1	+	24	82	-30"Hg	+	300
11	0	+	0.4	11	0	+	6
12	0	+	0.6	13	0	+	10
15	0	+	1	15	0	+	15
16	0	+	1.6	1C	0	+	20
18	0	+	2.5	17	0	+	30
19	0	+	4	19	0	+	60
20	0	+	6	21	0	+	100
22	0	+	10	22	0	+	160
24	0	+	16	23	0	+	200
26	0	+	25	25	0	+	300
27	0	+	40	26	0	+	400
29	0	+	60	27	0	+	600
31	0	+	100	30	0	+	1000
33	0	+	160	31	0	+	1500
35	0	+	250	34	0	+	3000
38	0	+	400	38	0	+	6000
39	0	+	600	40	0	+	10000
41	0	+	1000	41	0	+	15000
42	0	+	1600	1D	0	+	20000

Monel version MPJ and MPF are not available in codes 41, 42 and 1D.
Codes 11 and 12 : friction adjustable pointer mandatory, not fillable.

- (1) Except 0.4 bar / 6 psi
(2) Except 0.6 bar / 10 psi