

# ME7 Manometer for highly excessive pressures

Ø 150 mm

**Bellows pressure gauges**

**For corrosive process fluids and atmospheres**

**Watertight, can be filled with dampening fluid**



The **ME** pressure gauge enables measurement of gauge pressures with high overpressures (from 0...0.06 bar to 0...10 bar).

## Specifications (20°C)

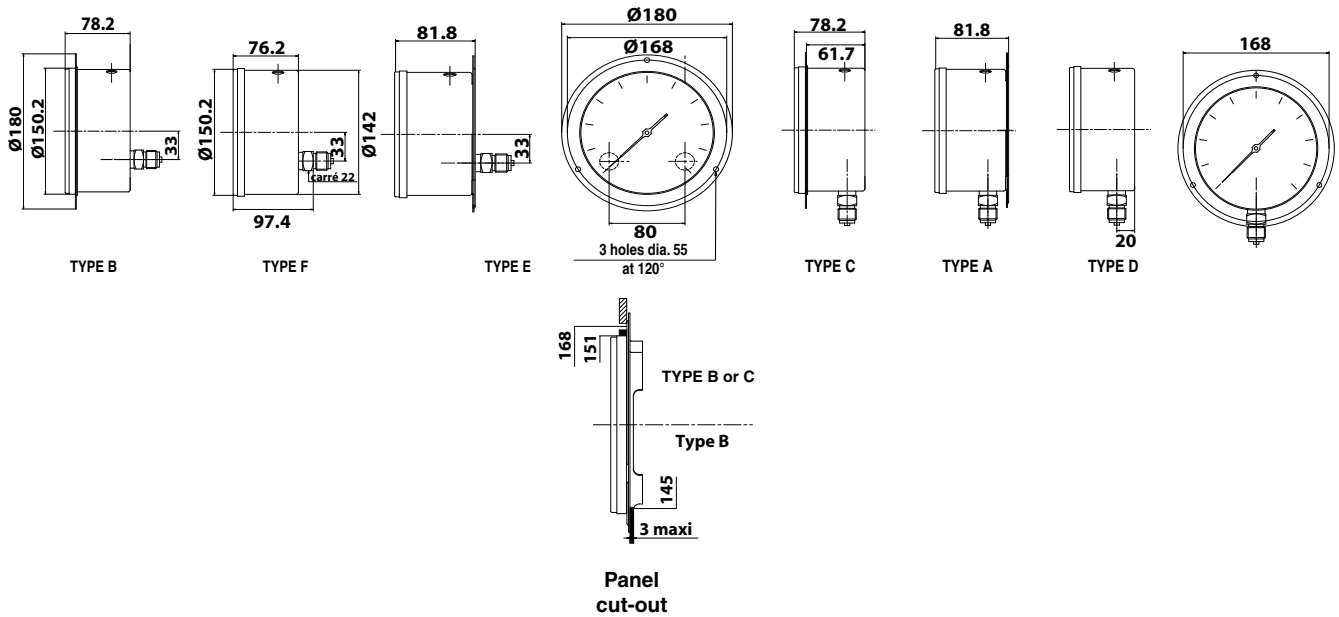
<b>Ranges</b>	See tables overleaf.
<b>Accuracy</b>	± 2% full scale for st. graduations and accuracy (see table overleaf) BH version: Degradation of the accuracy of 1%
<b>Protection rating</b>	IP 65 according to EN 60529.
<b>Sensing element</b>	Two 1.4404 (AISI 316 L) stainless steel bellows. Balance effect by high tensile leaf spring ; mechanical start and end-of-travel stops to withstand full static pressure.
<b>Connections and parts in contact with process fluid</b>	1.4401 (AISI 316 L) stainless steel. G 1/2 or 1/2 NPT threads
<b>Gauge working temperature</b>	-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.
<b>Case and Bezel ring</b>	1.4301 (AISI 304) stainless steel. Bayonet lock type.
<b>Window</b>	Glass, 3 mm thick.
<b>Window gasket</b>	Elastomer, ensures a tight seal between glass window and case.
<b>Movement</b>	All stainless steel.
<b>Dial</b>	Aluminium alloy, black figures and graduations on white background.
<b>Pointer</b>	Aluminium alloy, balanced, black painted.
<b>Blow-out disc</b>	Elastomer. Positioned on the top of the pressure gauge. Ensures pressure balance with atmosphere. Blows out when pressure inside the case exceeds 0.6 bar (10 psi).
<b>Weight</b>	1.6 kg ("dry" gauge) 2.5 kg (filled with dampening liquid)

## Options

Adjustable index pointer with polycarbonate window	<b>Code 0052</b>
Polyethacrylate glass (plexiglass)	<b>Code 0752</b>
Safety laminated glass	<b>Code 0751</b>
Hardened glass	<b>Code 0756</b>
Oxygen Application	<b>Code 0765</b>
Laboratory cleanliness	<b>Code 0835</b>
or nuclear cleanliness	<b>Code 0838</b>
Micrometric pointer*	<b>Code 0678</b>
Pointer adjustable by friction*	<b>Code 0679</b>
Version ATEX CE II 2 GDc - I M2c avec voyant triplex.	<b>Code 0078</b>
Threads smaller than or equal to G1/2	

\* *except reduced scales*

## Dimensions (mm) - Types of mounting



## Ordering details - ME7

		ME7xxxxxx
<b>Family</b>	1' digit	M
Pressure gauges		
<b>Type</b>	2' digit	E
ME		
<b>Dial diameter</b>	3' digit	7
Ø 150 mm		
<b>Type of mounting* and connections position</b>	4' digit	A B C D E F
bottom connection, 3 fixing brackets rear		A
back connection, front flange		B
bottom connection, front flange		C
bottom connection		D
back connection, 3 fixing brackets rear		E
back connection		F
* Option Stainless steel 1.4404 (316L) change A with 1, B with 2, C with 3, D with 4, E with 5 and F with 6		
<b>Pressure connection</b>	5' digit	3 6
G 1/2		3
1/2 NPT		6
<b>Type of liquid filling</b>	6' digit	0 1 2 3 4 5 7
Without		0
BH1 filling (low viscosity glycerin)		1
BH2 filling (high viscosity glycerin)		2
BH3 filling (standard silicone oil)		3
BH4 filling (low temperature silicone oil)		4
BH5 filling (fluorinated oil)*		5
BH7 filling (oil compatible with freezing fluids)		7
* Only with pressure gauge oxygen degreased (P max. 160 bar)		
<b>Unit of measurement</b>	7' digit	B D F H
bar		B
kPa		D
kg/cm <sup>2</sup>		F
psi		H
<b>Pressure range</b>	8' ...9' digit	xx
See codes in table		
<b>Overpressure (bar)</b>	10' digit	x
See codes in table		

Choose an excess pressure scaling as a function of relative pressure (ME) and the maximum excess pressure that the apparatus can sustain.

ME		Overpressure											
Code	Gauge pressure	0,6	1	1,6	2,5	4	6	10	16	25	40	60	100
07	0 + 0.06	⊗	⊗	●	●								
08	0 + 0.1	⊗	⊗	●	●								
09	0 + 0.16	*	*	*	*	⊗	⊗						
10	0 + 0.25	*	*	*	*	*	⊗	⊗	●				
11	0 + 0.4	*	*	*	*	*	*	⊗	⊗				
12	0 + 0.6	*	*	*	*	*	*	*	⊗				
15	0 + 1	*	*	*	*	*	*	*	*				
16	0 + 1.6	*	*	*	*	*	*	*	*	*			
18	0 + 2.5	*	*	*	*	*	*	*	*	⊗	⊗		
19	0 + 4	*	*	*	*	*	*	*	*	*	*		
20	0 + 6	*	*	*	*	*	*	*	*	*	*	*	
22	0 + 10	*	*	*	*	*	*	*	*	*	*	*	*
Code		A	C	D	E	F	G	H	J	K	L	M	N

\* Graduations on 270°  
Standard accuracy ± 2 %

⊗ Standard accuracy  
≤ 4 % on 270°

● Scale < 270°  
Standard accuracy ≤ 4 %

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