

# Pressure gauge

precision design series 3030

case dim 160 mm

E 02.20.01

Ed.23.01

<b>Application</b>	Pressure gauge for testing and calibration. Suitable for media that will not obstruct the pressure system or attack copper alloy parts
<b>Design</b>	EN 837-1
<b>Series</b>	3030
<b>WIKA model</b>	312.20
<b>Case size</b>	Nominal size dim 160 mm
<b>Accuracy</b>	Class 0,6%
<b>Case</b>	Stainless steel with bayonet ring
<b>Window</b>	Instrument glass
<b>Pressure element</b>	Copper alloy
<b>Movement</b>	Copper alloy
<b>Dial</b>	Aluminium, white with black lettering
<b>Pressure unit</b>	Bar. Option with unit bar/Pa, bar/psi, kPa, MPa, psi
<b>Pressure connection</b>	G1/2". Option with G3/8" or 1/2"NPT
<b>Mounting</b>	Lower or back mount, also with back flange, front flange or triangular bezel with clamp
<b>Ingress protection</b>	IP 54 acc.to EN 60529/IEC 529
<b>Pressure limitation</b>	Full scale value by steady pressure 90% of full scale value by fluctuating pressure By short time pressure 1,3 x of full scale value
<b>Permissible temperature</b>	Medium temperature max -40 till +80°C Ambient temperature max -40 till +60° C
<b>Certificates</b>	Certificate EN 10204 can be delivered as options Test report wetted parts EN 10204-2.2 Inspection certificate wetted parts EN 10204-3.1
<b>Calibration</b>	Option with accredited calibration with calibration certificate according to ISO/IEC 17025:2018 (SWEDAC)
<b>Production options</b>	Design with accuracy 0,25% Design Degreased for oxygen services



**3030**  
Lower mount



**3035**  
Lower mount  
back flange



**3037**  
Back mount  
front flange



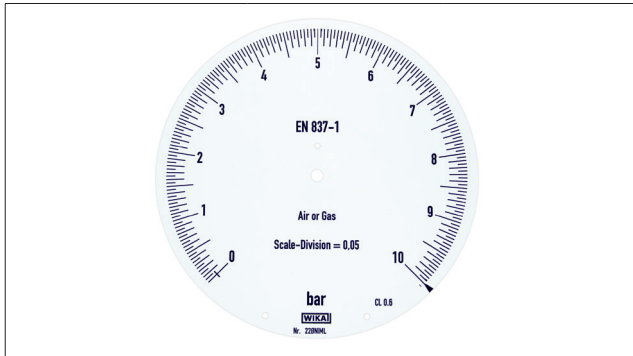
**3039**  
Lower mount  
front flange

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Pressure range	Interval	Divisions
0-0,6 bar	0,005	120
0-1 bar	0,005	200
0-1,6 bar	0,01	160
0-2,5 bar	0,02	125
0-4 bar	0,02	200
0-6 bar	0,05	120
0-10 bar	0,05	200
0-16 bar	0,1	160
0-25 bar	0,2	125
0-40 bar	0,2	200
0-60 bar	0,5	120
0-100 bar	0,5	200
0-160 bar	1,0	160
0-250 bar	2,0	125
0-400 bar	2,0	200
0-600 bar	5,0	120
-1/0 bar	0,005	200
-1/+1,5 bar	0,02	125
-1/+3 bar	0,02	200
-1/+5 bar	0,05	120
-1/+9 bar	0,05	200
-1/+15 bar	0,1	160
-1/+24 bar	0,2	125

## Accuracy

### Max permissible error 0,6%

The accuracy is expressed as a percentage of full scale range. Permissible error 1,0% will cover 0% till 100% of scale range with a reference temperature of +20°C.

Ex. Pressure range 0-10 bar has an error of  $\pm 0,06$  bar

### Temperature effect

Temperature of the measuring system over or under the reference temperature +20°C will effect the accuracy with 0,4 percentage per +10°C. With a medium temperature of +40°C the accuracy will be  $\pm 1,4\%$ .

## Alternative design

### Stainless steel design

Stainless steel design for aggressive media and environments  
Type 332.50.160 datasheet PM 03.06

### Stainless steel design - liquid filled

Stainless steel design with liquid filled case for aggressive media, environments and where pulsation and vibration exist  
Type 333.50.160 datasheet PM 03.06

### Safety version

Safety version EN 837-1 (S3) with solid baffle wall behind the dial, blow out back  
Type 332.30.160 datasheet PM 03.05

### High pressure

Pressure range > 0-600 bar  
Pressure range 0-1000 bar or 0-1600 bar  
Type 332.50.160 datasheet PM 03.06

### Low pressure

Pressure range < 0-0,6 bar  
Pressure range from 10 mbar to 600 mbar  
Type 612.20.160 datasheet PM 06.09

### Precision design 0,1%





Higher accuracy than 0,6%  
Precision design with accuracy 0,1%  
Type 342.11.250 datasheet PM 03.03

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Code number case dim 160 mm connection G1/2					
		3030	3035	3037	3039
Conn.	Range	Lower	Back flange	Front flange	Front flange
G1/2	0-0,6 bar	30305601	30355601	30375601	30395601
G1/2	0-1 bar	30305602	30355602	30375602	30395602
G1/2	0-1,6 bar	30305603	30355603	30375603	30395603
G1/2	0-2,5 bar	30305604	30355604	30375604	30395604
G1/2	0-4 bar	30305606	30355606	30375606	30395606
G1/2	0-6 bar	30305607	30355607	30375607	30395607
G1/2	0-10 bar	30305608	30355608	30375608	30395608
G1/2	0-16 bar	30305611	30355611	30375611	30395611
G1/2	0-25 bar	30305613	30355613	30375613	30395613
G1/2	0-40 bar	30305615	30355615	30375615	30395615
G1/2	0-60 bar	30305617	30355617	30375617	30395617
G1/2	0-100 bar	30305619	30355619	30375619	30395619
G1/2	0-160 bar	30305620	30355620	30375620	30395620
G1/2	0-250 bar	30305622	30355622	30375622	30395622
G1/2	0-400 bar	30305624	30355624	30375624	30395624
G1/2	0-600 bar	30305625	30355625	30375625	30395625
G1/2	-1/0 bar	30305640	30355640	30375640	30395640
G1/2	-1/+1,5 bar	30305666	30355666	30375666	30395666
G1/2	-1/+3 bar	30305667	30355667	30375667	30395667
G1/2	-1/+5 bar	30305668	30355668	30375668	30395668
G1/2	-1/+9 bar	30305669	30355669	30375669	30395669
G1/2	-1/+15 bar	30305671	30355671	30375671	30395671

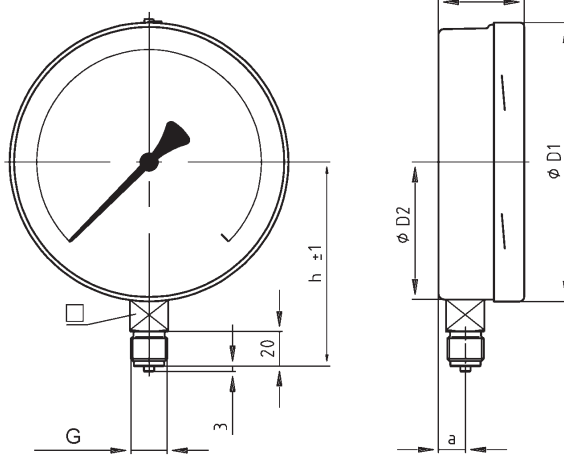
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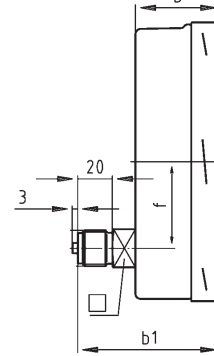
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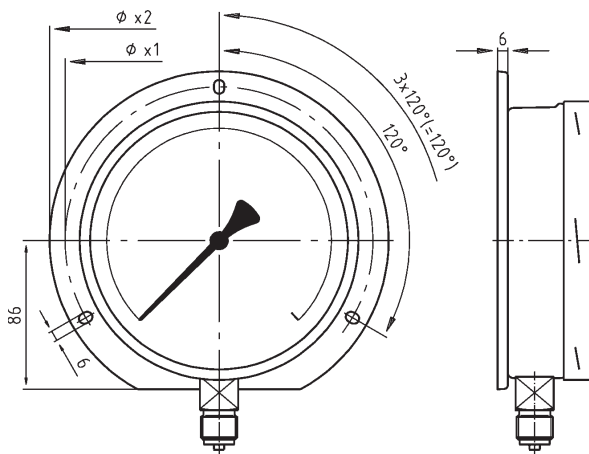
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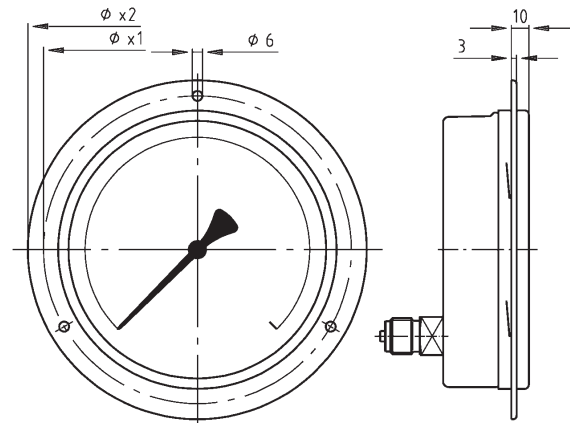
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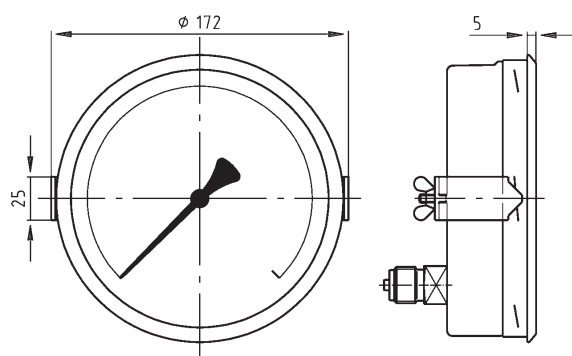
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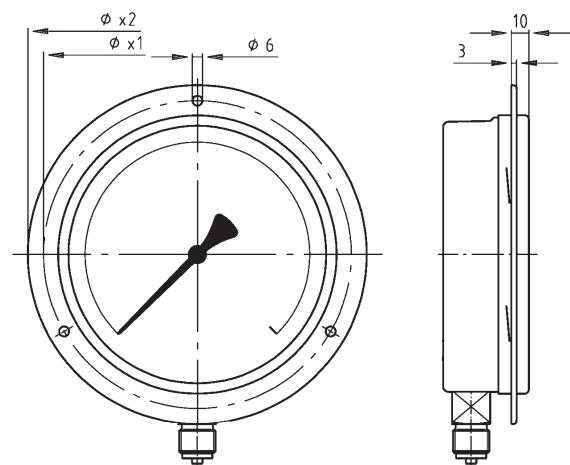
Type 3037



Type 3038



Type 3039



Dim Ø	a	b	b <sub>1</sub>	b <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	x1	x2	g	h±1	f	c	kg	G
160	15,5	49,5 <sup>1)</sup>	83 <sup>1)</sup>	-	161	159	178	196	-	118	50	-	1,1	G3/8-G1/2-1/2NPT

<sup>1)</sup> From 100 bar b = 65,5 mm and b<sub>1</sub> = 99 mm