

# Pressure gauge

with liquid filling series 2750

case dim 100 mm

E 02.05.02

Ed.23.01

<b>Application</b>	Industrial pressure gauge with liquid filling. Intended where pulsation or vibration exists. Suitable for media that will not attack copper alloy parts
<b>Design</b>	EN 837-1
<b>Series</b>	<b>Serie 2750</b>
<b>WIKA model</b>	213.53
<b>Case size</b>	Nominal size dim 100 mm
<b>Accuracy</b>	Class 1,0%
<b>Case</b>	Stainless steel with bayonet ring
<b>Window</b>	PMMA-plastic
<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>	G3/8" or G1/2" male
<b>Case filling</b>	Glycerine 99,7%
<b>Mounting</b>	Lower or back mount, also with back flange, front flange or triangular bezel with clamp
<b>Ingress protection</b>	IP 65 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 -20 till +60°C Ambient temperature max -20 till +60°C Special filling for temperature below -20°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)



**2750**  
Lower mount



**2751**  
Back mount



**2754**  
Lower mount  
clamp



**2755**  
Lower mount  
back flange



**2757**  
Back mount  
front flange



**2758**  
Back mount  
bezel and clamp

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Pressure range	Interval	Divisions
0-0,6 bar	0,01	60
0-1 bar	0,02	50
0-1,6 bar	0,05	32
0-2,5 bar	0,05	50
0-4 bar	0,1	40
0-6 bar	0,1	60
0-10 bar	0,2	50
0-16 bar	0,5	32
0-25 bar	0,5	50
0-40 bar	1,0	40
0-60 bar	1,0	60
0-100 bar	2,0	50
0-160 bar	5,0	32
0-250 bar	5,0	50
0-400 bar	10,0	40
0-600 bar	10,0	60
0-1000 bar	20,0	50
-1/0 bar	0,02	50
-1/+1,5 bar	0,05	50
-1/+3 bar	0,1	40
-1/+5 bar	0,1	60
-1/+9 bar	0,2	50
-1/+15 bar	0,5	50
-1/+24 bar	0,5	50

## Accuracy

### Max permissible error 1,0%

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  $\pm 0,1$  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  $\pm 1,8\%$ .

## Alternative design

### Filling below -20°C

Special filling for temperatur range to -40°C.

Glycerine 65% and destillated water 35%

### Low ambient temperature

Special design for ambient temperature down to -70°C

Filling Silicone oil

Type PG23LT datasheet PM 02.22

### Low pressure

Pressure range  $< 0-0,6$  bar

Pressure range from 2,5 mbar to 400 mbar

Type 2960 datasheet E02.17.01

### High pressure

Pressure range  $> 0-1000$  bar

Pressure range 0-1600 bar or 0-2500 bar

Type 2950 HP1 datasheet E02.11.01

### With electrical contact

One or two electrical contact mounted in the case







Max- and/or minfunction

Type PGS23.100 datasheet E02.53.01

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Code table case 100 mm connection G3/8							
		2750	2751	2754	2755	2757	2758
Conn	Range	Lower	Back	Clamp	Back flange	Front flange	Clamp
G3/8	0-0,6 bar	x	x	x	x	x	x
G3/8	0-1 bar	x	x	x	x	x	x
G3/8	0-1,6 bar	x	x	x	x	x	x
G3/8	0-2,5 bar	x	x	x	x	x	x
G3/8	0-4 bar	27504006	x	27544006	27554006	x	x
G3/8	0-6 bar	27504007	27514007	27544007	27554007	27574007	27584007
G3/8	0-10 bar	27504008	27514008	27544008	27554008	27574008	27584008
G3/8	0-16 bar	27504011	27514011	27544011	27554011	27574011	27584011
G3/8	0-25 bar	27504013	27514013	27544013	27554013	27574013	27584013
G3/8	0-40 bar	x	x	x	x	x	x
G3/8	0-60 bar	x	27514017	x	x	27574017	27584017
G3/8	0-100 bar	x	27514019	x	x	27574019	27584019
G3/8	0-160 bar	x	27514020	x	x	27574020	27584020
G3/8	0-250 bar	x	27514022	x	x	27574022	27584022
G3/8	0-400 bar	x	27514024	x	x	27574024	27584024
G3/8	0-600 bar	x	27514025	x	x	27574025	27584025
G3/8	0-1000 bar	x	27514026	x	x	27574026	27584026
G3/8	-1/0 bar	27504040	x	27544040	27554040	x	x
G3/8	-1/+1,5 bar	x	x	x	x	x	x
G3/8	-1/+3 bar	x	27514067	x	x	27574067	27584067
G3/8	-1/+5 bar	x	27514068	x	x	27574068	27584068
G3/8	-1/+9 bar	x	27514069	x	x	27574069	27584069
G3/8	-1/+15 bar	x	27514071	x	x	27574071	27584071







Pressure ranges marked with x only as type 2940, 2941, 2945, 2947 or 2948 acc.to datasheet E02.09.02

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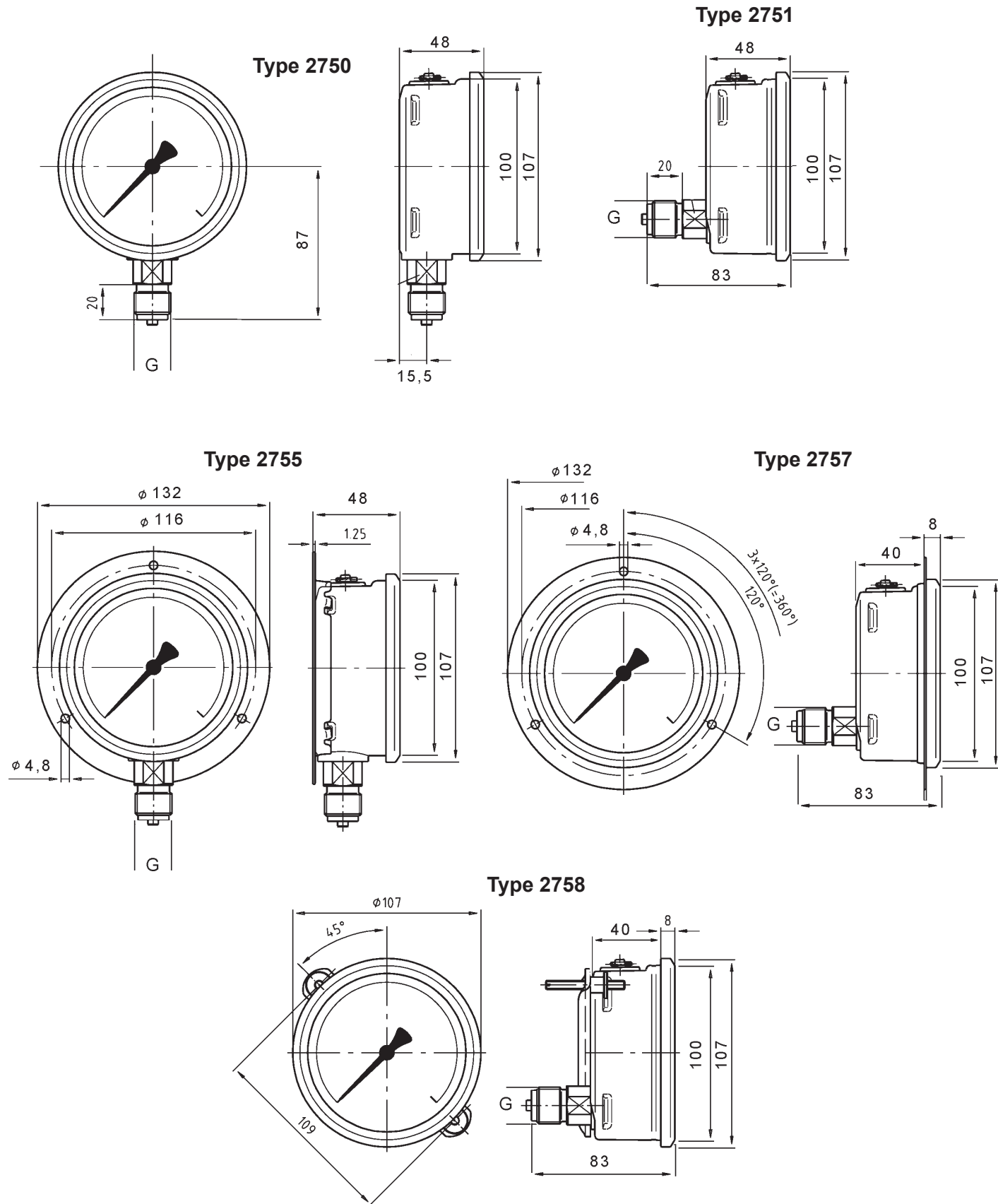
Code case 100 mm connection G1/2							
		2750	2751	2754	2755	2757	2758
Conn	Range	Lower	Back	Clamp	Back flange	Front flange	Clamp
G1/2	0-0,6 bar	27504401	x	27544401	27554401	x	x
G1/2	0-1 bar	27504402	27514402	27544402	27554402	27574402	27584402
G1/2	0-1,6 bar	27504403	27514403	27544403	27554403	27574403	27584403
G1/2	0-2,5 bar	27504404	27514404	27544404	27554404	27574404	27584404
G1/2	0-4 bar	27504406	27514406	27544406	27554406	27574406	27584406
G1/2	0-6 bar	27504407	27514407	27544407	27554407	27574407	27584407
G1/2	0-10 bar	27504408	27514408	27544408	27554408	27574408	27584408
G1/2	0-16 bar	27504411	27514411	27544411	27554411	27574411	27584411
G1/2	0-25 bar	27504413	27514413	27544413	27554413	27574413	27584413
G1/2	0-40 bar	27504415	27514415	27544415	27554415	27574415	27584415
G1/2	0-60 bar	27504417	27514417	27544417	27554417	27574417	27584417
G1/2	0-100 bar	27504419	27514419	27544419	27554419	27574419	27584419
G1/2	0-160 bar	27504420	27514420	27544420	27554420	27574420	27584420
G1/2	0-250 bar	27504422	27514422	27544422	27554422	27574422	27584422
G1/2	0-400 bar	27504424	27514424	27544424	27554424	27574424	27584424
G1/2	0-600 bar	27504425	27514425	27544425	27554425	27574425	27584425
G1/2	0-1000 bar	27504426	27514426	27544426	27554426	27574426	27584426
G1/2	-1/0 bar	27504440	27514440	27544440	27554440	27574440	27584440
G1/2	-1/+1,5 bar	27504466	27514466	27544466	27554466	27574466	27584466
G1/2	-1/+3 bar	27504467	27514467	27544467	27554467	27574467	27584467
G1/2	-1/+5 bar	27504468	27514468	27544468	27554468	27574468	27584468
G1/2	-1/+9 bar	27504469	27514469	27544469	27554469	27574469	27584469
G1/2	-1/+15 bar	27504471	27514471	27544471	27554471	27574471	27584471

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G = G3/8" or G1/2"