

Pressure gauge

stainless steel degreased for oxygen

case dim 100 or 160 mm

E 02.08.05

Ed.23.02

Application	Pressure gauge in stainless steel version. Suitable for aggressive media and environments Degreased for oxygen services
Design	EN 837-1
Series	2840
WIKA model	232.50
Case size	Nominal size dim 100 mm
Accuracy	Class 1,0%
Case	Stainless steel 1.4301 with bayonet ring Option with case in stainless steel 316Ti Option with epoxy- or PTFE-coating
Window	Laminated safety glass. Option with polycarbonate
Pressure element	Stainless steel 316L
Movement	Stainless steel, degreased for oxygen services
Dial	Aluminium, white with black lettering
Pressure unit	Bar. Option with unit bar/Pa, bar/psi, kPa, MPa, psi
Pressure connection	G3/8", G1/2" or 1/2"NPT male. Option G1/4" or 1/4"NPT Option with mounted restrictor
Mounting	Lower or back mount, also with back flange, front flange or triangular bezel with clamp
Ingress protection	IP 65 acc.to EN 60529/IEC 529
Pressure limitation	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 Option with overpressure safe 2 x full scale value
Permissible temperature	Medium temperature max -40 till +200°C Ambient temperature max -40 till +60° C
Certificates	Certificate EN 10204 can be delivered as options Test report wetted parts EN 10204-2.2 Inspection certificate wetted parts EN 10204-3.1
Calibration	Option with accredited calibration with calibration certificate according to ISO/IEC 17025:2018 (SWEDAC)
Production options	Explosion protection ATEX Ex h Design acc.to NACE Sour Gas Service Pressure element in monel (type 262.50) Silicone free design Dial with colored sectors or with customer logo



2840
Lower mount



2841
Back mount



2845
Lower mount
back flange



2847
Back mount
front flange



2848
Back mount
bezel and clamp



2849
Lower mount
front flange

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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

Liquid filling

Case with liquid filling

Type 2940 datasheet E02.09.02

Low pressure

Pressure range < 0-0,6 bar

Pressure range from 2,5 mbar to 400 mbar

Type 2860 datasheet E02.17.01

Test gauge

Pressure gauge for testing and calibration 0,6%

Type 332.50 enligt datablad PM 03.06

Safety version

Safety version EN 837-1 (S3) with

solid baffle wall behind the dial, blow out back

Type 232.50.100 datasheet E02.10.01

With electrical contact

One or two electrical contact mounted in the case

Max- and/or minfunction

Type PGS23.100 datasheet E02.53.01

With electrical contact device

One or two electrical contact mounted outside the case







Max- and/or minfunction

Datasheet E02.60.01

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Code number case dim 100 mm scale Bar						
	2840	2840	2845	2845	2849	2849
Mounting	Lower	Lower	Back flange	Back flange	Front flange	Front flange
Connection	G3/8"	G1/2"	G3/8"	G1/2"	G3/8"	G1/2"
0-0,6 bar	28403201	28404301	28453201	28454301	28493201	28494301
0-1 bar	28403202	28404302	28453202	28454302	28493202	28494302
0-1,6 bar	28403203	28404303	28453203	28454303	28493203	28494303
0-2,5 bar	28403204	28404304	28453204	28454304	28493204	28494304
0-4 bar	28403206	28404306	28453206	28454306	28493206	28494306
0-6 bar	28403207	28404307	28453207	28454307	28493207	28494307
0-10 bar	28403208	28404308	28453208	28454308	28493208	28494308
0-16 bar	28403211	28404311	28453211	28454311	28493211	28494311
0-25 bar	28403213	28404313	28453213	28454313	28493213	28494311
0-40 bar	28403215	28404315	28453215	28454315	28493215	28494315
0-60 bar	28403217	28404317	28453217	28454317	28493217	28494317
0-100 bar	28403219	28404319	28453219	28454319	28493219	28494319
0-160 bar	28403220	28404320	28453220	28454320	28493220	28494320
0-250 bar	28403222	28404322	28453222	28454322	28493222	28494322
0-400 bar	28403224	28404324	28453224	28454324	28493224	28494324
0-600 bar	28403225	28404325	28453225	28454325	28493225	28494325
-1/0 bar	28403240	28404340	28453240	28454340	28493240	28494340
-1/+1,5 bar	28403266	28404366	28453266	28454366	28493266	28494366
-1/+3 bar	28403267	28404367	28453267	28454367	28493267	28494367
-1/+5 bar	28403268	28404368	28453268	28453268	28493268	28493268
-1/+9 bar	28403269	28404369	28453269	28453269	28493269	28494369
-1/+15 bar	28403271	28404371	28453271	28454371	28493271	28494371

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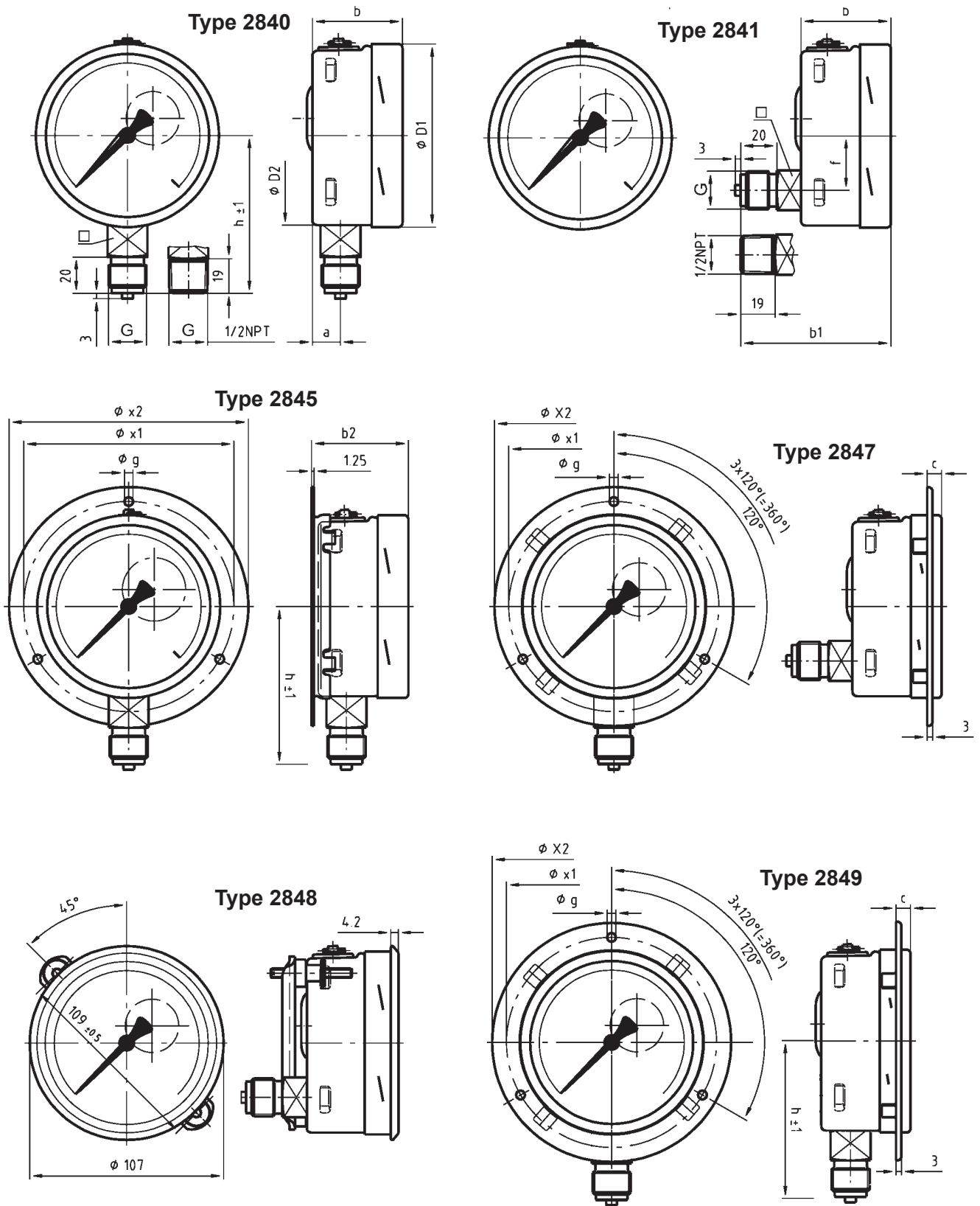
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Best.nr husdim 100 mm skala Bar			
	2841	2847	2848
Montering	Bakåt	Frotfläns	Bygelmontage
Anslutning	G1/2"	G1/2"	G1/2"
0-0,6 bar	28414201	28474201	28484201
0-1 bar	28414202	28474202	28484202
0-1,6 bar	28414203	28474203	28484203
0-2,5 bar	28414204	28474204	28484204
0-4 bar	28414206	28474206	28484206
0-6 bar	28414207	28474207	28484207
0-10 bar	28414208	28474208	28484208
0-16 bar	28414211	28474211	28484211
0-25 bar	28414213	28474213	28484213
0-40 bar	28414215	28474215	28484215
0-60 bar	28414217	28474217	28484217
0-100 bar	28414219	28474219	28484219
0-160 bar	28414220	28474220	28484220
0-250 bar	28414222	28474222	28484222
0-400 bar	28414224	28474224	28484224
0-600 bar	28414225	28474225	28484225
-1/0 bar	28414240	28474240	28484240
-1/+1,5 bar	28414266	28474266	28484266
-1/+3 bar	28414267	28474267	28484267
-1/+5 bar	28414268	28474268	28484268
-1/+9 bar	28414269	28474269	28484269
-1/+15 bar	28414271	28474271	28484271

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Dim ϕ	a	b	b ₁	b ₂	D ₁	D ₂	x ₁	x ₂	g	h ± 1	f	c	kg	G
100	15,5	49,5	83	53,5	101	99	116	132	4,8	87	30	8	0,6	G3/8-G1/2-1/2NPT
160	15,5	49,5 ¹⁾	83 ¹⁾	53,5	161	159	178	196	5,8	118	50	10	1,1	G3/8-G1/2-1/2NPT

¹⁾ From 100 bar b = 65,5 mm and b₁ = 99 mm