

Pressure gauge

stainless steel series 2840

case dim 160 mm

E 02.08.03

Ed.23.02

Application	Pressure gauge in stainless steel version. Suitable for aggressive media and environments
Design	EN 837-1
Series	2840
WIKA model	232.50
Case size	Nominal size dim 160 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
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 Design Degreased for oxygen services Silicone free design Pressure element in monel (type 262.50) 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 E02.09.03

Low pressure

Pressure range $< 0-0,6$ bar

Pressure range from 2,5 mbar to 400 mbar

Type 2860 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

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 232.30.160 datasheet E02.10.01

Measurement of oxygen

Degreased for oxygen services

Type 2840 FS datasheet E02.08.05

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 dim 160 mm scale Bar						
	2840	2840	2840	2845	2845	2845
Mounting	Lower	Lower	Lower	Back flange	Back flange	Back flange
Connection	G3/8"	G1/2"	1/2"NPT	G3/8"	G1/2"	1/2"NPT
0-0,6 bar	28406001	28405601	28406601	28456001	28455601	28456601
0-1 bar	28406002	28405602	28406602	28456002	28455602	28456602
0-1,6 bar	28406003	28405603	28406603	28456003	28455603	28456603
0-2,5 bar	28406004	28405604	28406604	28456004	28455604	28456604
0-4 bar	28406006	28405606	28406606	28456006	28455606	28456606
0-6 bar	28406007	28405607	28406607	28456007	28405607	28406607
0-10 bar	28406008	28405608	28406608	28456008	28455608	28406608
0-16 bar	28406011	28405611	28406611	28456011	28455611	28566611
0-25 bar	28406013	28405613	28406613	28456013	28455613	28456613
0-40 bar	28406015	28405615	28406615	28456015	28455615	28456615
0-60 bar	28406017	28405617	28406617	28456017	28455617	28456617
0-100 bar	28406019	28405619	28406619	28456019	28455619	28456619
0-160 bar	28406020	28405620	28406620	28456020	28455620	28566620
0-250 bar	28406022	28405622	28406622	28456022	28455622	28456622
0-400 bar	28406024	28405624	28406624	28456024	28455624	28456624
0-600 bar	28406025	28405625	28406625	28456025	28455625	28456625
0-1000 bar	28406026	28405626	28406626	28456026	28455626	28456626
-1/0 bar	28406040	28405640	28406640	28456040	28455640	28456640
-1/+1,5 bar	28406066	28405666	28406666	28456066	28455666	28456666
-1/+3 bar	28406067	28405667	28406667	28456067	28455667	28456667
-1/+5 bar	28406068	28405668	28406668	28456068	28455668	28456668
-1/+9 bar	28406069	28405669	28406669	28456069	28455669	28456669
-1/+15 bar	28406071	28405671	28406671	28456071	28455671	28456671
-1/+24 bar	28406072	28405672	28406672	28456072	28455672	28456672

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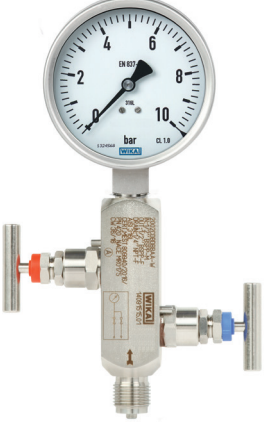
case dim 160 mm

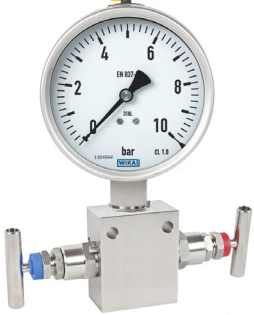



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Pressure gauge with Instrument Needle valve and Block-and-bleed valve

Material body stainless steel 316L
With or without mounting bracket hole
Material packing PTFE or Graphite
Nominal pressure 6000 psi / 420 bar

With or without vent connection
NACE Sour Gas Service
Inspection certificate 3.1 EN 10204
all wetted parts material

IV10	IV11	IV201	IV202
Needle valve	Needle valve	Block-and-bleed valve	Block-and-bleed valve
Standard	Multiport	Square form angled	Square form in-line
Female x female/male	Female x female/male	Female x female/male	Female x female/male
			

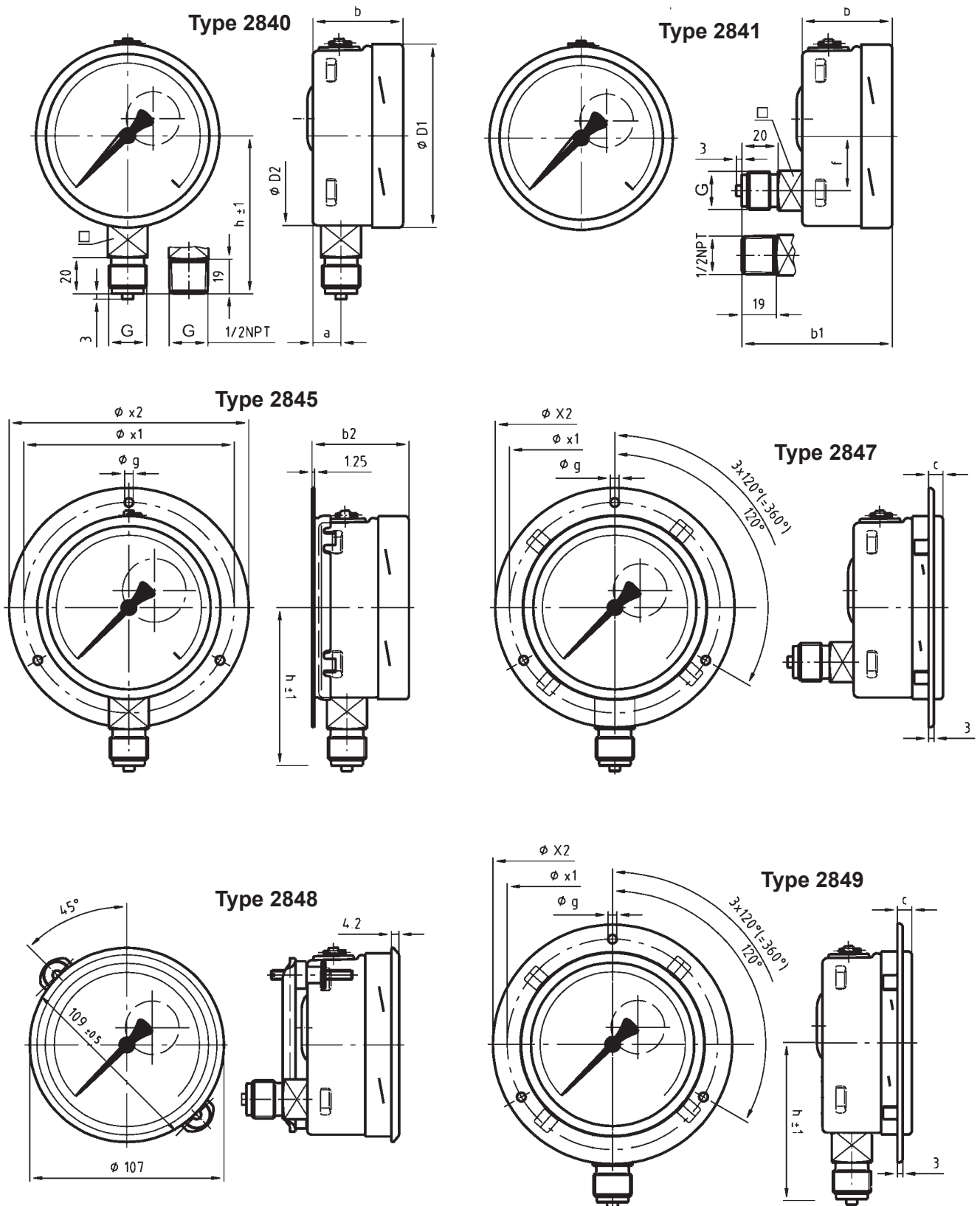
IV212	IV211	IVM2	IBF1
Block-and-bleed valve	Block-and-bleed valve	Monoflange	Monoblock
Flat form in-line	Flat form angled	Flange connection	Flange connection
Female x female	Female x female	Different versions	Different versions
			

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Dim Ø	a	b	b ₁	b ₂	D ₁	D ₂	x1	x2	g	h±1	f	c	kg	G
160	15,5	49,5*	83*	53,5	161	159	178	196	5,8	188	50	10	1,1	G3/8-G1/2-1/2NPT

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