Алматы (7273)495-231 Ангарск (3955)60-70-56 Архангельск (8182)63-90-72 Астрахань (8512)99-46-04 Барнаул (8852)73-04-60 Белгород (4722)40-23-64 Благовещенск (4162)22-76-07 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Владикавказ (8672)28-90-48 Владимир (4922)49-43-18 Волгоград (844)278-03-48 Волоград (8472)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Коломна (4966)23-41-49 Кострома (4942)77-07-48 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Курган (3522)50-90-47 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Ноябрьск (3496)41-32-12 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Петрозаводск (8142)55-98-37 Псков (8112)59-10-37 Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97

Тверь (4822)63-31-35 Тольятти (8482)63-91-07 Томск (3822)98-41-53 Тула (4872)33-79-87 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Улан-Уда (3012)59-97-51 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Чебоксары (8352)28-53-07 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Чита (3022)38-34-83 Якутск (4112)23-90-97 Ярославль (4852)69-52-93

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Технические характеристики на манометры для измерения давления для использования в агрессивных средах, мембранные GS, AS, SG, GG, AG, CP компании Delta Mobrey

All Stainless Steel Diaphragm type Pressure Gauge SG Series

Key Features

- Nominal diameter options of 100mm, 150mm
- · Degree of protection IP55/IP65.
- · All stainless steel construction as standard
- · Hazardous area certification
- · Blowout protection
- Ranges available between -1 bar to 25 bar
- Threaded or Flanged Process connection
- Safety level "S1"

Series Overview

The SG diaphragm type pressure gauge (code 3700***), is manufactured according to EN 837-3, offers customers a high quality and versatile solution for the measurement of low and medium pressure for any industrial application.

The selection of the quality material and the wide range of options available including the internal overpressure system and the flanged process connection, make this instrument suitable for liquid and gaseous media, also for aggressive environments and for any industrial application, when pressure measurements are needed.

Other products

Other products we can offer:

- All Stainless Steel Bourdon type pressure gauges
- Manifolds
- Capsule type Pressure Gauges











Product applications

The SG range is suitable for a wide range of applications in:

- Oil & Gas
- Chemical
- Petrochemical
- Refining
- Power
- Food Industry
- OEM

The choice of models available ensures suitability for use in:

- Corrosive atmospheres
- Resistant to chemical attack
- Hazardous Area
- Low & Medium & pressure application

phragm type Pressure Gauge

Technical Specification

Enclosure casing: IP55 Protection for dry execution (optional IP67 is available upon

request.

Pressure connection material: Standard: AISI 316L stainless steel (other, see below)

Dials: White aluminium with black graduation

Pointer Aluminium

Pressure ranges: Ranges according to EN 837-3, max pressure value 25 bar

Standard over pressure 115% (Option up to 10 times fsv available for ranges Over pressure:

Up to 2,5 bar)

Process connection: Threaded 1/2 Gas (BSP), BSPT or NPT external or EN / ANSI Flange as

Standard with blind threaded holes. For pass through holes on direct flanges

see DIMENSIONS.

Construction with Spacer with trough holes on bottom flange, available as

SPECIAL REQUIREMENT

Finishing of Flanged Connection Raised Face RF as standard (other on request according to the ranges)

Accuracy: 1.6 per EN 837·3

-20 to +60 °C Ambient temperature:

Process temperature: -20 to +100 °C all standard version and P.T.F.E. coated

-20 to +150 °C with Viton gaskets option

Enclosure material: Standard AISI304; Optional AISI316

Wetted parts material: Standard AISI316L, AISI316L+ PTFE or exotic material on request

Windows material: Tempered glass (Methacrylate when filled)

Laminated safety glass

Movements material: Stainless Steel Scale angle Standard: 270°C

Model

A dedicated 3700*** code is assigned to each pressure gauge with technical characteristics selected based on the options listed in the tables below

CONSTRUCTION TYPES

Diaphragm type Pressure Gauge

Standard SG for industrial application

ATEX certified Diaphragm type Pressure Gauge

ATEX service SG $\langle \varepsilon_x \rangle$ II 2 G D

Gauge Diameter

CASE DIAMETERS

100mm (nominal 4")

150mm (nominal 6")



Range

Different units or special scales are available. Please contact our sales department for any clarification

	Range	Bar	Kg/cm ²	mBar
	-1 to 0	V		
	-16 to 0			V
	-25 to 0			V
Vacuum	-40 to 0			$\sqrt{}$
Gauge	-60 to 0			$\sqrt{}$
Gauge	-100 to 0			V
	-160 to 0			$\sqrt{}$
	-250 to 0			$\sqrt{}$
	-400 to 0			$\sqrt{}$
	-1 to + 0.6	V		
	-1 to + 1.5	V		
	-1 to + 3	V	√	
Compound	-1 to + 5	V		
Ranges	-1 to + 9	V	√	
	-1 to + 15	V	V	
	-1 to + 24	V		
	0 to 0.6	V	V	
	0 to 1	V	V	
	0 to 1.6	V	V	
	0 to 2.5	V	V	
	0 to 4	V	V	
	0 to 6	V	V	
Gauge	0 to 10	V	V	
Pressure	0 to 16	V	V	V
Ranges	0 to 25	√	V	V
	0 to 40			V
	0 to 60			V
	0 to 100			V
	0 to 160			V
	0 to 250			V
	0 to 400			V

Over Pressure

Note 1:Overrange protection 10 times fsv is applicable also for range 0 to 400 mbar, but Pmax will be limited to 2.5 bar.

Note 2: For overpressure above the limits of the internal device, please consider the external overpressure protector series OVP

OVERPRESSURE

Standard construction with 115 per cent of full scale deflection

Internal protection 10 times fsv for ranges 0 to 16 up to 0 to 250 mbar

Internal protection 5 times fsv for ranges above 0 to 400mbar

Mounting

CONNECTION POSITION

Bottom Connection, Direct

Fill

Filled construction is available only for ranges from range 0 to 250 mbar (no vacuum or compound)

FILLING FLUID No Fill Unfilled Silicone

Diaphragm type Pressure Gauge

1/2-14 NPT External G1/2B Flange EN 1092 DN 15 or ANSI B 16.5 1/2" Flange EN 1092 DN 20 or ANSI B 16.5 3/4" Flange EN 1092 DN 25 or ANSI B 16.5 1" Flange EN 1092 DN40 or ANSI B 16.5 -1/2"

Flange EN 1092 DN50 or ANSI B 16.5 2"

Flange Rating

150 lbs	
300 lbs	
PN 6	
PN 10	
PN 16	
PN 25	

Material of Wetted Parts

In the construction with diaphragm covered with exotic material, the base diaphragm is always in 316SS

FORESEEN MATERIALS

Non standard requirement, see ES details

P.T.F.E. covered Diaphragm & Process connection

Monel 400 covered Diaphragm & Process connection

Stainless steel AISI 316L Diaphragm and 316L process connection

Hastelloy C276 covered Diaphragm & Process connection

Titanium covered Diaphragm & Process connection

Tantalum covered Diaphragm & Process connection

316SS Process connection, Diaphragm covered with P.T.F.E.

316SS Process connection, Diaphragm covered with Monel 400

316SS Process connection, Diaphragm covered with Hastelloy C276

316SS Process connection, Diaphragm covered with Titanium

316SS Process connection, Diaphragm covered with Tantalum

Material of Gauge Case

100mm case & ring iAISI 304 stainless steel with glass window
100mm case & ring AISI 316 stainless steel with glass window
100mm case & ring AISI 304 stainless steel with laminated safety glass
100mm case & ring AISI 316 stainless steel with laminated safety glass
150mm case & ring AISI 304 stainless steel with glass window
150mm case & ring AISI 316 stainless steel with glass window
150mm case & ring AISI 304 stainless steel with laminated safety glass
150mm case & ring AISI 316 stainless steel with laminated safety glass

Options Available

No additional options required

Tag number printed on dial face

Stainless steel tag plate.

Serial number printed on dial face

Red mark on dial

Stainless steel tag plate and Red mark on dial

2" pipe mounting support Stainless steel AISI 304

Treatments Available

No additional treatment required

Tropicalised

Wetted parts prepared for Oxygen service.

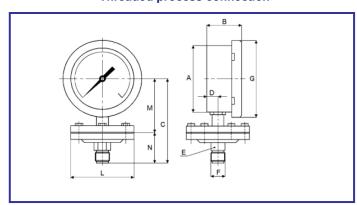
Special Requirements

Special requirements

Dimensions

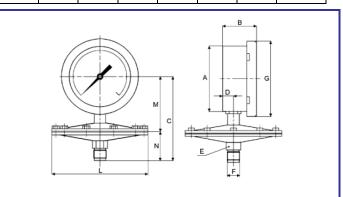
Pressure ranges between 0.6 and 25 bar

Threaded process connection



		_		_	_	_							Weight
DN	Α	В	С	D	E	F	G	Н	'	L	М	N	No-fill
100	103	50	132	15.5	22	1/2	118			95	88	44	1.40
150	150	50	156	16.5	22	1/2	166			95	112	44	1.70

Pressure ranges between 16 and 400 mbar



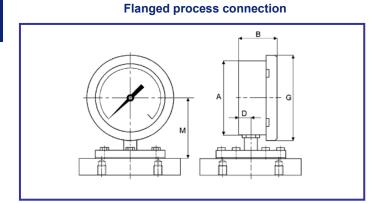
DM		_	•		_	_							Weight
DN	Α	В	C	D	E	F	G	Н	•	_	М	N	No-fill
100	103	50	142	15.5	22	1/2	118			95	93	49	1.55
150	150	50	166	16.5	22	1/2	166			95	117	49	1.85

Dimensions

Blind threaded holes, Pressure ranges between 0.6 and 25 bar

Direct Flanges with pass through holes only for:

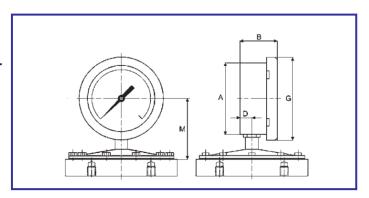
- DN50 PN10/16/25
- DN80 PN6/10/16/25
- 2" 1/2 ANSI 150/300



DN					-	_						Weight
DN	A	В	C	D	ш	F	G	Ŧ	_	M	N	No-fill
100	103	50		16.5			118			88		
150	150	50		16.5			166			112		

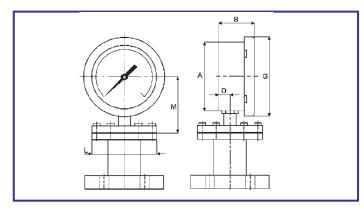
Blind threaded holes, Pressure ranges between 16 and 400 mbar

Direct Flanges with pass through holes <u>not available</u> for these ranges (see configuration below)



	_												Weight
DN	А	В	C	D	ш	_	G	Ŧ	_	١	M	N	No-fill
100	103	50		16.5			118				93		
150	150	50		16.5			166				117		

Pass through holes with Spacer construction.



DN	A	В	С	D	E	F	G	н	1	L	M	N	RANGES
100	103	50		16.5			118			95	88		0.6-25 bar
150	150	50		16.5			166			95	112		0.6-25 bar
100	103	50		16.5			118			150	93		16-400 mbar
150	150	50		16.5			166			150	117		16-400 mbar

EUROPEAN DIRECTIVE



Pressure Equipment Directive (PED) 2014/68/EU

Compliant to PED, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤200bar

ATEX Directive 2014/34/EU

- CONSTRUCTION SAFETY— Technical file storage reference SGS21ATEX0095DR ⟨ξx⟩II 2GD Notified body for Technical storage file: SGS Fimko Oy, Helsinki, Finland, Notified Body No 0598
- Ex h IIC T6 Gb X
- Ex h IIIC T85°C Db X

UK REGULATION



Pressure Equipment (Safety) Regulation 2016

S.I. 2016 no. 1105, as amended, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤200bar

Equipment and Protective Systems Intended for use in Potentially

⟨€x⟩II 2GD

Explosive Atmospheres Regulation 2016

(S.I. 2016 No. 1107 as amended)

CONSTRUCTION SAFETY— Technical file storage reference BAS21UKEx0356TDR

Approved body for Technical storage file: SGS Baseefa Ltd, Buxton, United Kingdom, Approval Body No 1180

- Ex h IIC T6 Gb X
- Ex h IIIC T85°C Db X



Technical Datasheet



All Stainless Steel Solid Front Bourdon Type Pressure Gauge GS Series

Key Features

- Nominal diameter options of 100mm and 150mm stainless steel case
- Degree of protection IP55/IP65
- · Stainless steel enclosure as standard
- Hazardous area certification
- · Blowout protection
- · Ranges available up to 4000 bar
- · Monel pressure connection, material and options available

Series Overview

The GS solid front safety pattern pressure gauges offers customers a cost- effective and reliable solution for applications in process control where safety level S3 according to EN 837-1 is required.

Safety is guaranteed by a protection baffle wall positioned between the pressure element assembly and the dial, and by a blow-out device made of a back plate which allows an eventual pressure vent from the casing.

Available with a wide variety of casing options and size, the GS pressure gauge can be used for a variety of applications when pressure measurements are needed.

Other products

Other products we can offer:

- All Stainless Steel Bourdon tube type pressure gauges
- Manifolds
- Diaphragm Pressure Gauges











Product applications

The GS range is suitable for a wide range of applications where a safety barrier & blow out back are required to give added safety:

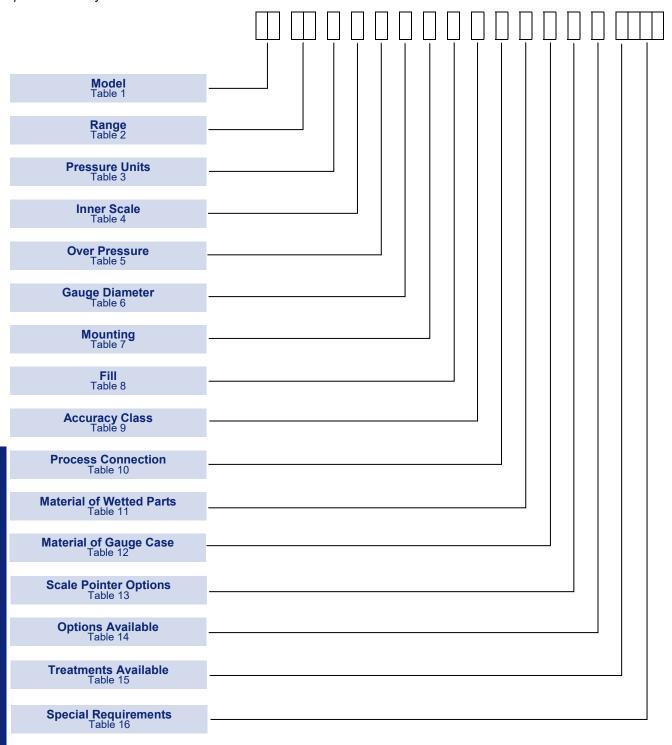
- Oil & Gas
- Chemical
- Petrochemical
- Refining
- Power
- Food Industry
- OEM

The choice of models available ensures suitability for use in:

- Corrosive atmospheres
- Resistant to chemical attack
- Medium and High Pressure application

How to order

Gauges can be configured by selecting codes representing the desired features from the tables that follow. The chart below, describes how the model code is built up. For assistance in configuring a switch that best suits your needs, please contact your local sales office.



NOTE: Options shaded in the following tables are the most common options and are available on the quickest lead-times and at the lowest cost.

NOTE: Only the most common options are shown in this data sheet. Should you require a feature that is not shown, please contact your local sales office for further details.

Solid Front Bourdon type Pressure Gauges

Technical Specification

Enclosure casing: IP55 Protection for dry execution

IP67 Protection for filled execution

Pressure connection material: AISI 316L stainless steel up to 1600 bar

Ni-Span C (Fe Ni Cr Alloy) for scale values 2500 and 4000 bar

Monel material available upon request

Dials: White aluminium with black graduation (for dial modifications see available

options - Table 14)

Pressure ranges: Ranges according to EN 837-1,

Process connection: G 1/2 B (1/2 Gas or BSP) or 1/2 -14 NPT External (1/2 NPT) thread for

NS 100, 125 and 150 with ranges up to 1600 bar

9/16-18 UNF, 5/8-18 UNF or M16x 1.5 Female thread with tapered seal, for NS

100 and 150 with ranges 2500 and 4000bar

Accuracy: Class 1.0 per EN 837·1:1998

Options ± 0.5 % and ± 0.6 % accuracy available on request

Ambient temperature: -40 to +60 °C non fluid

-20 to +60 °C glycerine filled execution -40 to +60 °C silicone fluid filled execution

Process temperature: -40 to +250 °C non fluid

-20 to +100 °C glycerine filled execution -40 to +120 °C silicone fluid filled execution

Note: 80°C max operating temperature for glycerine filled instruments,

120°C for silicone fluid filled ones

Windows material: Laminated safety glass

Polycarbonate (phenolic case only)

Thermal drift Change in instrument accuracy of 0.3% every 10°C

Scale angle -270°C

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Solid Front Bourdon type Pressure Gaug	
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	GS & AS
5	Models:

	TABLE 1																	
--	---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ENCLOSURE TYPES	Code
Industrial Service Pressure Gauge	
100mm and 150 mm	GS
ATEX certified Industrial Service Pressure Gauge	
ATEX service pressure gauge - Other specification as GS & II 2 G D	AS

Range

Model

TABLE 2											
---------	--	--	--	--	--	--	--	--	--	--	--

	Range	Bar	Kg/cm ²	MPa	KPa	PSI	inHg & PSI	Code
\/a a	-1 to 0	$\sqrt{}$	√					A0
Vacuum	-100 to 0				√			AA
Gauge	-30 to 0						√	AB
	-1 to + 0.6	V	√					CF
	-1 to + 1.5	$\sqrt{}$	\checkmark					G3
	-1 to + 3	V	$\sqrt{}$					CG
	-1 to + 5	V	V					CH
	-1 to + 9	$\sqrt{}$	\checkmark					CI
	-1 to + 15	$\sqrt{}$	\checkmark					CJ
	-1 to + 24	V	V					CK
	-30 to +15						$\sqrt{}$	CL
Compound Ranges	-30 to +30		1				V	CM
Ranges	-30 to +150		1				$\sqrt{}$	CN
	-100 to +150		1		V			GJ
	-100 to +300		1		√			CA
	-100 to +500		1		\checkmark			CD
	-100 to +900				V			СР
	-100 to +1500				$\sqrt{}$			CQ
	-100 to +2400		1		V			CR
	0 to 1	√	$\sqrt{}$					DA
	0 to 1.6	√	V					DB
	0 to 2.5	V	V					DC
	0 to 4	√	V					DD
	0 to 6	√	V	√				DE
	0 to 10	V	V	√				EA
	0 to 15		1			√		DK
	0 to 16	√	V	√				EB
	0 to 25	V	$\sqrt{}$	√				EC
	0 to 30		1			√		DP
	0 to 40	V	V	√				ED
	0 to 60	V	V	√		√		EE
	0 to 100	V	V	√	V	√		FA
	0 to 160	V	$\sqrt{}$	√	\checkmark	V		FB
Gauge	0 to 200		1			√		PF
Pressure	0 to 250	V	$\sqrt{}$	√	V			FC
Ranges	0 to 300					$\sqrt{}$		ER
	0 to 400	V	$\sqrt{}$	V	V	$\sqrt{}$		FD
	0 to 600	V	$\sqrt{}$		√	$\sqrt{}$		FE
	0 to 1000	V	$\sqrt{}$		V	$\sqrt{}$		GA
	0 to 1500		1			V		F6
	0 to 1600	√	V		V			GB
	0 to 2000					√		UB
	0 to 2500	√	V		V	√		GC
	0 to 3000					√		UF
	0 to 4000	√	V		V	√		V2
	0 to 5000					√		W2
	0 to 6000					V		W9
	0 to 10000					√		YF
	0 to 15000					V		YK
Ì	0 to 20000					√		YP

Pressure Units	TABLE 3	
		Code
	Kg/cm ²	В
	Vacuum inches Hg and pressure PSI	С
	Bar	Н
	MPa	I
	KPa	J
	PSI	Р
	Other units available – consult the Delta Mobrey sales team	TBA
Inner Scale	TABLE 4	
		Code
	Inner Scale not required	0
	Kg/cm ²	В
	Vacuum inches Hg and pressure PSI	С
	Bar	Н
	KPa	J
	PSI	Р
	Other units available – consult the Delta Mobrey sales team	TBA
Over Pressure	TABLE 5	
Note:		Code
	130 per cent of full scale deflection up to 1600 bar ranges	1
For code 2 and 3 high over pressure protector must be used.	160 per cent of full scale deflection up to 60 bar ranges	2
	250 per cent of full scale deflection up to 60 bar ranges	3
	Equal to full scale deflection (2500/4000 bar)	0

Gauge Diameter

Note:

DN 125 (4 $-^{1}/_{2}$ ") Phenol case is not standard and is available only on request

Mounting

	Code	es
130 per cent of full scale deflection up to 1600 bar ranges	1	Gauges
160 per cent of full scale deflection up to 60 bar ranges	2	àaı
250 per cent of full scale deflection up to 60 bar ranges	3	
Equal to full scale deflection (2500/4000 bar)	0	JL
		381
TABLE 6		Front Bourdon type Pressure
	Code	ype
100mm (nominal 4") St. Steel case only	4	n t
150mm (nominal 6") St. Steel case only	6	op
125mm (nominal 4 - 1/2 ") phenolic case only	5	ur
		30
TABLE 7		ront Es & AS
	Code	
Bottom Connection, Direct	Α	Solid Models:
Bottom Connection, Surface, Case Mounting Plate	В	S §

TABLE 7	
	Code
Bottom Connection, Direct	Α
Bottom Connection, Surface, Case Mounting Plate	В

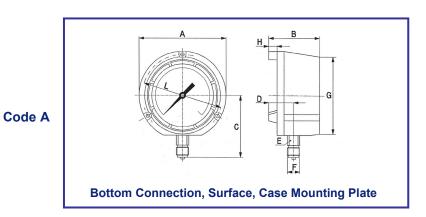
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Fill	TABLE 8	
		Code
	No Fill	0
	Glycerine	G
	Silicone	S
Accuracy Class	TABLE 9	
		Code
	Class 1.0 (+/-1 percent of full scale deflection)	Α
	Class 1.6 (+/-1.6 per cent of full scale deflection)	В
	Class 0.6 (+/-0.6 percent of full scale deflection for ranges 1600bar or less)	С
	Class 0.6 (+/-0.6 percent of full scale deflection for ranges 2500 and 400 bar)	E
	Class 0.5 (+/-0.5 percent of full scale deflection)	G
Process Connection	TABLE 10	
		Code
	Fitted with Chemical Seal which affects the accuracy of the instruments.	Code 9
	instruments.	9
	instruments. High Pressure 5/8-18 UNF	9 F
	instruments. High Pressure 5/8-18 UNF High Pressure M16 x 1.5	9 F G
Material of Wetted Parts	instruments. High Pressure 5/8-18 UNF High Pressure M16 x 1.5 1/2-14 NPT External	9 F G J
Material of Wetted Parts	instruments. High Pressure 5/8-18 UNF High Pressure M16 x 1.5 1/2-14 NPT External G1/2B	9 F G J
Material of Wetted Parts	instruments. High Pressure 5/8-18 UNF High Pressure M16 x 1.5 1/2-14 NPT External G1/2B	9 F G J K
Material of Wetted Parts	instruments. High Pressure 5/8-18 UNF High Pressure M16 x 1.5 1/2-14 NPT External G1/2B TABLE 11	9 F G J K
Material of Wetted Parts	instruments. High Pressure 5/8-18 UNF High Pressure M16 x 1.5 1/2-14 NPT External G1/2B TABLE 11	9 F G J K

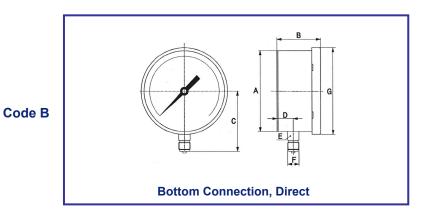
			•
Material of Gauge Case	TABLE 12		
		Code	
	Gauge nominal diameter 100 or 150mm diameter - Case and ring in AISI 304 stainless steel with laminated safety glass window	0	
	Gauge nominal diameter 100mm (4inch), case and ring with bayonet bezel in AISI 316 stainless steel with laminated safety glass window	1	
	Gauge nominal diameter 150mm (6inch), case and ring with bayonet bezel in AISI 316 stainless steel with laminated safety glass window	2	
	Gauge nominal diameter 125mm (5inch), phenolic case with methacrylate window	5	
	Gauge nominal diameter 125mm (5inch), phenolic case with laminated safety glass window	6	
Scale Pointer Options	TABLE 13		
		Code	
	Standard only no options this model	0	
	Elastic pointer stop in case of sudden return to zero	5	
Options Available	TABLE 14 [] [] [] [] [] [] [] [] [] [
			•
		Code	
	No additional options required	Code 0	
	No additional options required Tag number printed on dial face Stainless Steel casing		
	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate	0	တ္
	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing	0 1 4 5	ges
	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial	0 1 4 5	auges
	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial Writings on dial	0 1 4 5 9 A	: Gauges
	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial	0 1 4 5	
Treatments Available	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial Writings on dial	0 1 4 5 9 A	Pressure
Treatments Available	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial Writings on dial Stainless steel tag plate and Stainless steel (AISI304) 2" pipe mounting	0 1 4 5 9 A	Pressure
Treatments Available	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial Writings on dial Stainless steel tag plate and Stainless steel (AISI304) 2" pipe mounting	0 1 4 5 9 A B	Pressure
Treatments Available	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial Writings on dial Stainless steel tag plate and Stainless steel (AISI304) 2" pipe mounting	0 1 4 5 9 A B	Pressure
Treatments Available	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial Writings on dial Stainless steel tag plate and Stainless steel (AISI304) 2" pipe mounting TABLE 15	0 1 4 5 9 A B	Pressure
Treatments Available	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial Writings on dial Stainless steel tag plate and Stainless steel (AISI304) 2" pipe mounting TABLE 15	0 1 4 5 9 A B	
Treatments Available Special Requirements	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial Writings on dial Stainless steel tag plate and Stainless steel (AISI304) 2" pipe mounting TABLE 15	0 1 4 5 9 A B	ont Bourdon type Pressure
	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial Writings on dial Stainless steel tag plate and Stainless steel (AISI304) 2" pipe mounting TABLE 15	0 1 4 5 9 A B	Front Bourdon type Pressure
	Tag number printed on dial face Stainless Steel casing Stainless steel tag plate Serial number printed on dial face Stainless Steel casing Stainless steel tag plate and Red mark on dial Writings on dial Stainless steel tag plate and Stainless steel (AISI304) 2" pipe mounting TABLE 15	0 1 4 5 9 A B Code 0 1 4	ont Bourdon type Pressure

TABLE 16		- Lou
	Code	1 P
Special requirements	XXX	C

Type of Mounting Table 7



	_	_	_	_	_	_				Hole Ø	Weight		
DN	A	В	С	D	E	F	G	Н	L	at 120°	No-fill	Filled	
125	148	86	103	42	22	1/2	129	14	137	6	1,00	1,50	



5.11		_		_	_	_	_	G	н		Hole Ø	Weight		
DN	Α	В	С	D	Е	F	G	н	L	at 120°	No-fill	Filled		
100	100	50	90	16	22	1/2	112				0,70	1,04		
150	151	52	114	16	22	1/2	166				1,15	2,02		

EUROPEAN DIRECTIVE



Pressure Equipment Directive (PED) 2014/68/EU

Compliant to PED, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤200bar

ATEX Directive 2014/34/EU

CONSTRUCTION SAFETY— Technical file storage reference SGS21ATEX0095DR Notified body for Technical storage file : SGS Fimko Oy, Helsinki, Finland, Notified Body No 0598

- ⟨ξx⟩II 2GD
- Ex h IIC T6 Gb XEx h IIIC T85°C Db X

UK REGULATION



UK Pressure Equipment (Safety) Regulation 2016

S.I. 2016 no. 1105, as amended, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤200bar

Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulation 2016

(S.I. 2016 No. 1107 as amended)

CONSTRUCTION SAFETY— Technical file storage reference BAS21UKEx0356TDR

Approved body for Technical storage file: SGS Baseefa Ltd, Buxton, United Kingdom, Approval Body No 1180



- Ex h IIC T6 Gb X
- Ex h IIIC T85°C Db X



Technical Datasheet



Industrial Service Pressure Gauge **GG Range**

Key Features

- Nominal diameter options of 63mm, 100mm, 150mm, 200mm and 250mm
- Degree of protection IP55/IP65
- · Stainless steel enclosure as standard
- Blowout protection
- Ranges available between -1 bar to 1000 bar
- Monel pressure connection, material and options available

Series Overview

- The GG pressure gauge offers customers a cost effective and accurate solution to their individual process requirements.
- Available with a wide variety of casing options and size, the GG pressure gauge can be used for a variety of applications when pressure measurements are needed.

Other products in the series include:

Solid Front Safety Pattern: Model GS

• Diaphragm Pressure Gauges: Model SG





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Product applications

The GG range is suitable for a wide range of applications in:

- Oil & Gas
- Chemical
- Petrochemical
- Refining
- Power
- Food Industry
- OEM

The choice of models available ensures suitability for use in:

- Corrosive atmospheres
- Resistant to chemical attack

How to order

Gauges can be configured by selecting codes representing the desired features from the tables that follow. The chart below, describes how the model code is built up. For assistance in configuring a switch that best suits your needs, please contact your local sales office.

Model Table 1									
Range Table 2									
Pressure Units Table 3									
Inner Scale Table 4									
Over Pressure Table 5									
Gauge Diameter Table 6									
Mounting Table 7									
Fill Table 8									
Accuracy Class Table 9									
Process Connection Table 10									
Material of Wetted Parts Table 11									
Material of Gauge Case Table 12									
Scale Pointer Options Table 13									
Options Available Table 14									
Treatments Available Table 15									
Special Requirements Table 16									

NOTE: Options shaded in the following tables are the most common options and are available on the quickest lead-times and at the lowest cost.

NOTE: Only the most common options are shown in this data sheet. Should you require a feature that is not shown, please contact your local sales office for further details.

<u>ndustrial Service Gauge</u>

Technical Specification

Enclosure casing: IP55 Protection for dry execution (optional IP67 is available upon

IP67 Protection for filled execution

Pressure connection material: AISI 316 stainless steel (special material available upon request)

Dials: White aluminium with black graduation

Pressure ranges: Ranges according to EN 837-1, max pressure value 1600 bar

Over pressure: Standard over pressure 130% (Option 160% and 250% over pressure for size

100&150mm up to nominal range 40 bar)

Model GG (63mm): 1/4" Gas(BSP), BSPT or NP **Process connection:**

(Special sizes available upon request)

Model GG (100, 150, 200 and 250mm):1/2 Gas (BSP), BSPT or NPT

(Special sizes available upon request)

Process connection: Rc 1/4 (BSP), 1/4 NPT Internal, 1/2 NPT Internal, 1/2 NPT External

Accuracy: Model GG (63mm): 1.6 per EN 837·1:1998

Model GG (100, 150, 200, 250mm): 1.0 per EN 837·1:1998 Options with 0.5% and 0.6% accuracy available on request (NS 63

excluded)

-40 to +60 °C non fluid and silicone fluid filled execution Ambient temperature:

-20 to +60 °C glycerine filled execution

-40 to +250 °C non fluid **Process temperature:**

-20 to +100 °C glycerine filled execution -40 to +120 °C silicone fluid filled execution

Windows material: Tempered glass for 63mm, 100mm and 150mm

Methacrylate for 200mm and 250 mm

Laminated safety glass

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TABLE 1		
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ENCLOSURE TYPES			
Industrial Service Pressure Gauge			
63mm, 100mm, 150mm, 200mm and 250 mm			
ATEX certified Industrial Service Pressure Gauge			
ATEX service pressure gauge - Other specification as GG (II 2 G D	AG		

Range

Model



	Range	Bar	Kg/cm ²	MPa	KPa	PSI	inHg & PSI	Code
Vacuum	-1 to 0	$\sqrt{}$	$\sqrt{}$					A0
Gauge	-30 to 0				√			AA
Gauge	-100 to 0						$\sqrt{}$	AB
	-1 to + 0.6		$\sqrt{}$					CF
	-1 to + 1.5	$\sqrt{}$	$\sqrt{}$					G3
	-1 to + 3	\checkmark	\checkmark					CG
	-1 to + 5	\checkmark						CH
	-1 to + 9	\checkmark	\checkmark					CI
	-1 to + 15	\checkmark	\checkmark					CJ
	-1 to + 24	$\sqrt{}$	$\sqrt{}$					CK
0	-30 to +15						$\sqrt{}$	CL
Compound Ranges	-30 to +30						$\sqrt{}$	CM
lgoo	-30 to +150						$\sqrt{}$	CN
	-100 to +300				√			CA
	-100 to +500				\checkmark			CD
	-100 to +150				√			GJ
	-100 to +900				√			CP
	-100 to +1500				\checkmark			CQ
	-100 to +2400				\checkmark			CR
	0 to 0.6	\checkmark	\checkmark					CE
	0 to 2.5	$\sqrt{}$	$\sqrt{}$					DC
	0 to 4	$\sqrt{}$	$\sqrt{}$					DD
	0 to 6	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$				DE
	0 to 10	$\sqrt{}$	$\sqrt{}$	√				EA
	0 to 15					√		DK
	0 to 16	$\sqrt{}$	V	√				EB
	0 to 25	$\sqrt{}$	$\sqrt{}$	√				EC
	0 to 30					$\sqrt{}$		DP
	0 to 40	√	V	√				ED
	0 to 60	√	V	√	√	V		EE
	0 to 100	√	√	√	√	√		FA
Gauge	0 to 160	$\sqrt{}$	$\sqrt{}$	√	√	V		FB
Pressure	0 to 200					$\sqrt{}$		PF
Ranges	0 to 250	$\sqrt{}$	$\sqrt{}$		√			FC
	0 to 300					√		ER
	0 to 400	√	√		√	V		FD
	0 to 600	√	V		√	√		FE
	0 to 1000	√	$\sqrt{}$		√	√		GA
	0 to 1500					√		F6
	0 to 2000				,	$\sqrt{}$		UB
	0 to 2500		ļ		√			GC
	0 to 3000	1			,	√		UF
	0 to 4000				√	√		V2
	0 to 5000					√		W2
	0 to 6000		ļ			√		W9
	0 to 10000		ļ			V		YF
	0 to 15000	<u> </u>				$\sqrt{}$		YK

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Pressure Units	TABLE 3	
	,	Code
	Kg/cm ²	В
	Vacuum inches Hg and pressure PSI	С
	Bar	Н
	MPa	I
	KPa	J
	m H2O	М
	PSI	Р
	mm Hg	V
Inner Scale	TABLE 4	
		Code
	Inner Scale not required	0
	Kg/cm ²	В
	Vacuum inches Hg and pressure PSI	С
	Bar	Н
	MPa	I
	KPa	J
	PSI	Р
	Other units available – consult the Delta Mobrey sales team	ТВА
Over Pressure	TABLE 5	
Optional: Higher Over Pressure up to		Code
160% and 250% available with 100mm	130 per cent of full scale deflection	1
and 150mm for ranges up to 40bar		
Gauge Diameter	TABLE 6	
Case diameter 200 and 250 are also		Code
available. Please consult Delta Mobrey	63mm (nominal 2.5") – (Inner scale not available in this size)	2
sales team.	100mm (nominal 4")	4
	150mm (nominal 6")	6

Mounting

	Code
Bottom Connection, Direct	Α
Bottom Connection, Surface, Case Mounting Plate	В
Lower Back Connection, Direct	D
Lower Back Connection, Flush, Cover Mounting Plate	F
Lower Back Connection, Flush, Cover Mounting Bracket	Н

Gauge	,
Service	AG
ndustrial	dels: GG & AG
<u>_</u>	ğ

Fill	TABLE 8	
		Code
	No Fill	0
	Unfilled	E
	Glycerine	G
	Silicone	S
	Silicone	3
Accuracy Class	TABLE 9	
		Code
	1.0 PER EN837·1:1998, Only available with DN>100	A
	1.6 PER EN837·1:1998, Only available with DN63	В
	Class 0.6 (+/-0.6 per cent of full scale deflection) (for BS and ANSI +/-	
	0.5 per cent of full scale deflection). Gauge nominal diameters 100mm (4inch) and 150mm (6inch).	E
Process Connection	TABLE 10	
		Code
	Fitted with Chemical Seal which aftects the accuracy of the instruments	9
	R1/4	В
	1/2-14 NPT External	J
		K
	G1/2B	_
	G1/4B	L
	M20 X 1.5	M
	1/4-18 NPT External	S
	Non standard	Х
Material of Wetted Parts	TABLE 11	
_		Code
	NACE AISI 316L St. St. wetted parts	K
	Monel Bourdon tube and process connection also suitable NACE MR.01.75 (Sour service) applications	M
	Stainless steel AISI 316Ti Bourdon tube and 316L process connection	S
	Non standard requirement, see ES details	X
	,	

Material of Gauge Case

	Code
63 mm case and ring in AISI 304 stainless steel fitted with laminated safety glass	0
63 mm case and ring in AISI 316 stainless steel fitted with laminated safety glass	1
63 mm case and ring in AISI 304 stainless steel fitted with Methacrylate window	2
63 mm case and ring in AISI 316 stainless steel fitted with Methacrylate window	3
63 mm case and ring in AISI 304 stainless steel fitted with glass window	4
63 mm case and ring in AISI 316 stainless steel fitted with glass window	5
100 mm case and ring in AISI 304 stainless steel fitted with glass window	Α
100 mm case and ring in AISI 316 stainless steel fitted with glass window	В
100 mm case and ring in AISI 304 stainless steel fitted with laminated safety glass	С
100 mm case and ring in AISI 316 stainless steel fitted with laminated safety glass	D
150 mm case and ring in AISI 304 stainless steel fitted with glass window	E
150 mm case and ring in AISI 316 stainless steel fitted with glass window	F
150 mm case and ring in AISI 304 stainless steel fitted with laminated safety glass	G
150 mm case and ring in AISI 316 stainless steel fitted with laminated safety glass	Н
Non standard requirement	Х

Scale Pointer Options

Aluminium, micrometer adjustment without fill, no adjustment for filled cases (however can be adjusted after removing the fill) and no adjustment for NS63

Non standard requirement

X

Options Available

TABLE 14									
----------	--	--	--	--	--	--	--	--	--

	Code
No additional options required	0
Tag number printed on dial face	1
Stainless steel tag plate.	4
Serial number printed on dial face	5
Red mark on dial	8
Stainless steel tag plate and Red mark on dial	9
2" pipe mounting support Stainless steel AISI 304	С

Code

TABLE 15

	Code
No additional treatment required	0
Tropicalised	1
Wetted parts prepared for oxygen service.	4

Special Requirements

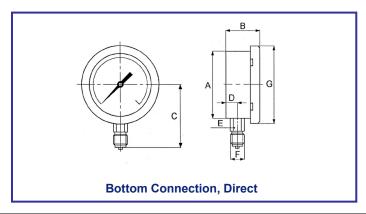
Treatments Available



	Code
Special requirements	XXX

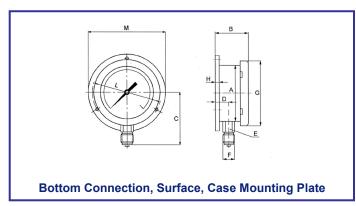
Type of Mounting Table 7

Code A



		_		_	_	_						Hole	Weight	
DN	Α	В	C	D	ш	H.	G	Ŧ	١	M	N	Ø at 120°	No-fill	Filled
63	62	32	56	10	14	1/4	69						0,16	0,23
100	100	49	90	15	22	1/2	112						0,57	0,91
150	151	49	114	15	22	1/2	166						0,92	1,79
200	202	51	144	15	17	1/2	216						1,32	
250	248	56	168	15	17	1/2	262						1,78	

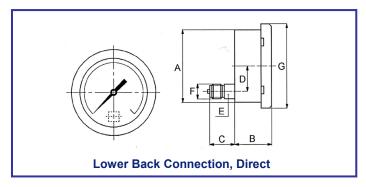
Code B



		_		_	_	_			_				Hole	Weight	
DN	Α	В	С	D	E	F	G	Н	ı	L	M	N	Ø at 120°	No-fill	Filled
100	100	49	90	15	22	1/2	111	1		116	132		5	0,62	0,96
150	151	56	114	22	22	1/2	166	7		178	192		5	1,16	2,03
200	202	60	144	24	17	1/2	216	9		220	240		6,5	1,92	
250	248	58	168	17	17	1/2	262	2		276	290		7	2,82	

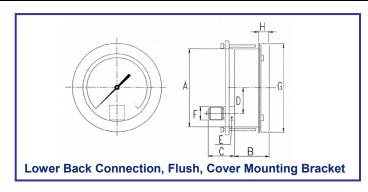
Type of Mounting Table 7

Code D



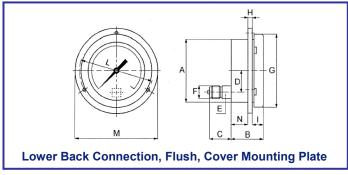
		_			_	F							Hole	Wei	ight
DN	Α	В	С	D	ш	F	G	Н	_	١	М	N	Ø at 120°	No-fill	Filled
63	62	31	23	0	14	1/4	69							0,16	0,96
100	100	50	35,5	28	22	1/2	110							0,51	0,85
150	150	50	35,5	33	17	1/2	166							0,98	1,82

Code H



DN					_	_							Hole N Ø at	We	Weight	
DN	A	В	C	D	E	-	G	Ħ	-	_	M	Z	120°	No-fill	Filled	
63	62	31	23	0	14	1/4	69	12						0,19	0,26	
100	100	50	35,5	28	22	1/2	110	15						0,58	0,92	

Code F



		_	_	_	_	_	_				М	M	М	N	Hole	Weight	
DN	A	В	С	D	ш	L.	G	Ŧ	_	٦	М	N	Ø at 120°	No-fill	Filled		
63	64	31	23	0	14	1/4	69	2,5	12	75	84	16,5	3,6	0,18	0,25		
100	100	50	35,5	28	22	1/2	110	3	16	116	134	31	5	0,56	0,90		
150	150	50	35,5	33	17	1/2	166	7	19	178	192	27	5	1,04	1,88		





EUROPEAN DIRECTIVE

Pressure Equipment Directive (PED) 2014/68/EU

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Compliant to PED, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤200bar

ATEX Directive 2014/34/EU

CONSTRUCTION SAFETY— Technical file storage reference SGS21ATEX0095DR Notified body for Technical storage file: SGS Fimko Oy, Helsinki, Finland, Notified Body No 0598

- Ex h IIC T6 Gb X
- ⟨Ex⟩II 2GD
 - Ex h IIIC T85°C Db X

UK REGULATION



Pressure Equipment (Safety) Regulation 2016

S.I. 2016 no. 1105, as amended, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤200bar

Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulation 2016

(S.I. 2016 No. 1107 as amended)

CONSTRUCTION SAFETY— Technical file storage reference BAS21UKEx0356TDR

Approved body for Technical storage file: SGS Baseefa Ltd, Buxton, United Kingdom, Approval Body No 1180

⟨ξx⟩II 2GD

- Ex h IIC T6 Gb X
- Ex h IIIC T85°C Db X



Capsule type Pressure Gauges CP Series

Key Features

- Nominal Diameter of 100 & 150 mm
- Degree of Protection IP55 / IP67
- · Stainless Steel construction as standard
- Hazardous area certification
- Blowout Protection
- Ranges available see page 2

Series Overview

The CP capsule type pressure gauges (code 3700***) are manufactured according to EN 837-3 with case and wetted parts, in stainless steel and are suitable for clean process fluid. For this reason, they are particularly suitable for installation in aggressive and corrosive environments, very common in the process industry. The optional 316 stainless steel case & ring, also make the instrument suitable for off shore installations.

The sensing element is a capsule that expands under pressure, transfering the movement to the pointer trough high precision stainless steel movements.

Due to the sensitivity of this type of sensing element, overpressures are not permitted. For this reason it is suggested to select the scale with the operating pressure between 1/10 to 2/3 of fsv.

Other products

Other products we can offer:

- · All stainless steel bourdon tube type pressure gauges
- Manifolds
- · Diaphragm pressure gauges: Model SG











Product applications

The CP range is suitable to meet the requirements of OEM manufacturers of :

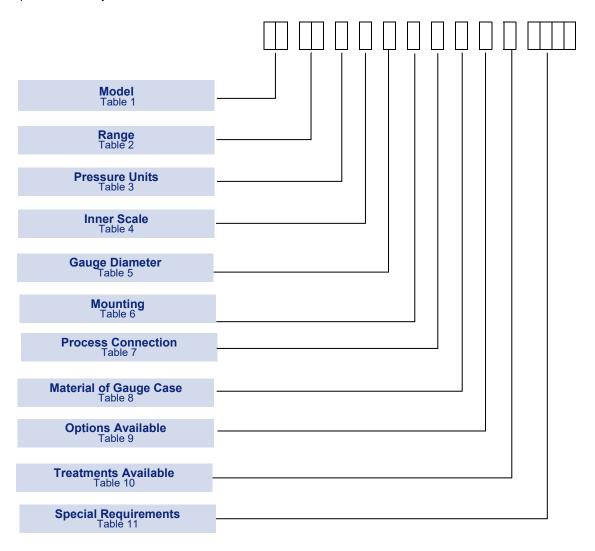
- Burners & furnace
- Air & exhaust gasses treatment system
- Low pressure systems air & gas system

The choice of models available ensures suitability for use in:

- Corrosive atmospheres
- Resistant to chemical attack
- Hazardous areas

How to order

Gauges can be configured by selecting codes representing the desired features from the tables that follow. The chart below, describes how the model code is built up. For assistance in configuring a switch that best suits your needs, please contact your local sales office.



NOTE: Options shaded in the following tables are the most common options and are available on the quickest lead-times and at the lowest cost.

NOTE: Only the most common options are shown in this data sheet. Should you require a feature that is not shown, please contact your local sales office for further details.

NOTE: Instruments are identified with the below codification and a unique part umber 37xxxx for each combination of selection and options.

Technical Specification

Enclosure casing: IP55 Protection for dry execution (optional IP67 casing not fillable, is available

Pressure connection material: AISI 316 stainless steel

Dials: White Aluminium with black graduation on 270 °

Pointer: Aluminium pointer

Pressure ranges: Pressure, vacuum and compound ranges according to EN 837-3,

max pressure value 400 mbar

Overpressure : Not permitted

Casing: Enclosure case and ring in AISI 304 stainless steel with bayonet bezel

Optional 316 stainless steel

Window material: Glass or Safety glass

Blow out: Upper rubber cap

Process connection material: 316L stainless steel

Capsule material: 316 L stainless steel

Internal movement material: Stainless Steel

Process connection: Rc 1/4 (BSP), 1/4 NPT Internal, 1/2 NPT Internal, 1/2 NPT External

Accuracy: 1.6 per EN 837·3

Ambient temperature: -10 to +50 °C

Process temperature: -10 to +120 °C

Model

A dedicated 3700*** code is assigned to each pressure gauge with technical characteristics selected based on the options listed in the tables below

ENCLOSURE TYPES

Capsule type Pressure Gauge

Standard CP for industrial application

ATEX certified Industrial Service Pressure Gauge

ATEX service CP $\langle \bar{\epsilon} x \rangle$ II 2 G D

Gauge Diameter

CASE DIAMETERS

100mm (nominal 4")

150mm (nominal 6")

Capsule type Pressure Gauge Series: CP

Range

Different units or special scales are available. Please contact our sales department for any clarification.

	Range	mBar					
	-0.6 to 0						
	-1 to 0						
	-1.6 to 0						
	-2.5 to 0						
	-4 to 0						
	-6 to 0	\checkmark					
Vacuum	-10 to 0	$\sqrt{}$					
	-16 to 0	$\sqrt{}$					
Gauge	-25 to 0	\checkmark					
	-40 to 0	√					
	-60 to 0	\checkmark					
	-100 to 0	$\sqrt{}$					
	-160 to 0	\checkmark					
	-250 to 0	\checkmark					
	-400 to 0	$\sqrt{}$					
	0 to 6	$\sqrt{}$					
	0 to 10	$\sqrt{}$					
	0 to 16	V					
Gauge	0 to 25	V					
Pressure	0 to 40	$\sqrt{}$					
	0 to 60	$\sqrt{}$					
Ranges	0 to 100	\checkmark					
	0 to 160	√					
	0 to 250	$\sqrt{}$					
	0 to 400	$\sqrt{}$					
Compound ranges	Available on request						

Pressure Units

SCALES AVAILABLE
inches H ₂ O
mBar
KPa
mmH_2O

Mounting

Bottom Connection, Direct
Bottom Connection, Surface, Case Mounting Plate
Central Back Connection, Direct
Central Back Connection, Flush, Cover Mounting Plate

Process Connection

R1/4
1/2-14 NPT External
G1/2B
G1/4B
M20 X 1.5
1/4-18 NPT External
Non standard

Material of Gauge Case

100mm case & ring iAISI 304 stainless steel with glass window

100mm case & ring AISI 316 stainless steel with glass window

100mm case & ring AISI 304 stainless steel with laminated safety glass

100mm case & ring AISI 316 stainless steel with laminated safety glass

150mm case & ring AISI 304 stainless steel with glass window

150mm case & ring AISI 316 stainless steel with glass window

150mm case & ring AISI 304 stainless steel with laminated safety glass

150mm case & ring AISI 316 stainless steel with laminated safety glass

Options Available

No additional options required

Tag number printed on dial face

Stainless steel tag plate.

Serial number printed on dial face

Red mark on dial

Stainless steel tag plate and red mark on dial

2" pipe mounting support stainless steel AISI 304

Treatments Available

No additional treatment required

Tropicalised

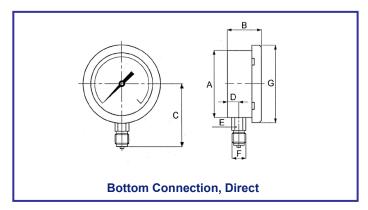
Wetted parts prepared for oxygen service.

Special Requirements

Special requirements

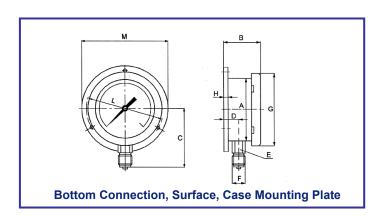
Type of Mounting

Code A



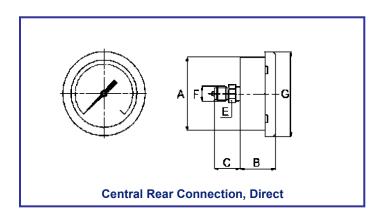
DN					_	_					M N	Hole Ø at 120°	Weight
DN	A	В	С	D	E	F	G	н	L	IVI			No-fill
100	103	50	92	16.5	22	1/2	118						0,51
150	150	50	116	16.5	22	1/2	166						0,78

Code B



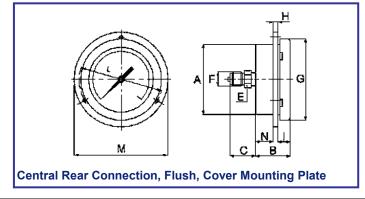
		_		_	_	_						M N	Hole Ø	Weight
DN	A	В	С	D	E	F	G	Н	ı	L	M		at 120°	No-fill
100	103	57	92	23.5	22	1/2	118	7		126	140		5	0,64
150	150	57	116	23.5	22	1/2	166	7		178	192		5	1,02

Code D



DN					_	_						Hole Ø	Weight	
DN	Α	В	С	D	E	F	G	Н	'	_	M	N	at 120°	No-fill
100	103	50	38		22	1/2	118							0,51
150	150	50	38		22	1/2	166							0,78

Code F



DN		0	С	,	_	L		H I L	LM	M	M	Hole Ø	Weight	
	A	В	د	D	ш		G		•	_	IVI	N	at 120°	No-fill
100	103	50	38		22	1/2	118	7	19	126	140	24	5	0,60
150	150	50	38		22	1/2	166	7	19	178	192	24	5	0.91



Pressure Equipment Directive (PED) 2014/68/EU

Compliant to PED, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤200bar

ATEX Directive 2014/34/EU

⟨ξx⟩II 2GD

CONSTRUCTION SAFETY— Technical file storage reference SGS21ATEX0095DR

Notified body for Technical storage file: SGS Fimko Oy, Helsinki, Finland, Notified Body No 0598

- Ex h IIC T6 Gb X
- Ex h IIIC T85°C Db X

UK REGULATION



UK Pressure Equipment (Safety) Regulation 2016

S.I. 2016 no. 1105, as amended, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤200bar

Equipment and Protective Systems Intended for use in Potentially

Explosive Atmospheres Regulation 2016

⟨€x⟩II 2GD

(S.I. 2016 No. 1107 as amended)

CONSTRUCTION SAFETY— Technical file storage reference BAS21UKEx0356TDR

Approved body for Technical storage file: SGS Baseefa Ltd, Buxton, United Kingdom, Approval Body No 1180

- Ex h IIC T6 Gb X
- Ex h IIIC T85°C Db X





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