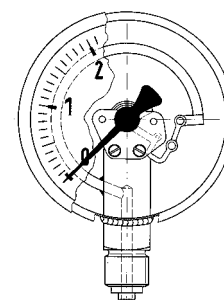


Bourdon tube pressure gauges for chemical applications with glycerine filling

EN 837-1



- For chemical and process engineering applications
- Measuring system fully welded to housing
- Extremely robust design
- Can be used in case of heavy vibrations and high, dynamic pressure loads
- Tightness-tested with helium
- DNV- and GOSSTANDART-certified
- ATEX version (optional)



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Application For corrosive gaseous and liquid media which are not highly viscous and do not crystallise; suitable for corrosive environments. For measurements in areas with high vibration levels and high, dynamic pressure loads.
! For measuring gas or vapour, these gauges must be used in accordance with the table "Selection Criteria as per EN 837-2" (see appendix)!

Technical specifications

Type

D 7

Nominal size

50 – 63

Accuracy class (EN 837-1/6)

1.6

Ranges (EN 837-1/5)

NG 50:

-1/0 to -1/+15 bar

0/0.6 to 0/600 bar

NG 63:

-1/0 to -1/+15 bar

0/0.6 to 0/1,000 bar

Application area

Static load: ¼ x full scale value

Dynamic load: ⅓ x full scale value

Short-term: full scale value

Operating temperature range

Medium: $T_{max} = +100\text{ °C}$ Ambient: $T_{min} = -20\text{ °C}$ $T_{max} = +60\text{ °C}$

Temperature performance

Indication error when the temperature of the measuring system deviates from the normal temperature of 20 °C:

rising temperature approx. $\pm 0.4\text{ %}/10\text{ K}$ falling temperature approx. $\pm 0.4\text{ %}/10\text{ K}$
of full scale value

Degree of protection

IP 65 (EN 60529)

with housing vent (< 25 bar): IP 54

Standard version

Connection

Stainless steel 316 L

NG 50 bottom or bottom back

NG 63 bottom or centre back

G¼B – spanner size SW 14

(EN 837-1/7.3)

Measuring element

Bourdon tube, stainless steel 316 Ti/316 L

≤ 60 bar "C" type tube

> 60 bar helical tube

tightness-tested with helium

Movement

Stainless steel

Dial

Aluminium, white

Dial marking black

Pointer

Aluminium, black

Housing

Stainless steel 304 with blow-out

Crimped bezel

Stainless steel 304

Window

NG 50 plastic

NG 63 laminated safety glass

Filling liquid


Glycerine (99.5 %)



See page 63
for prices.

Options

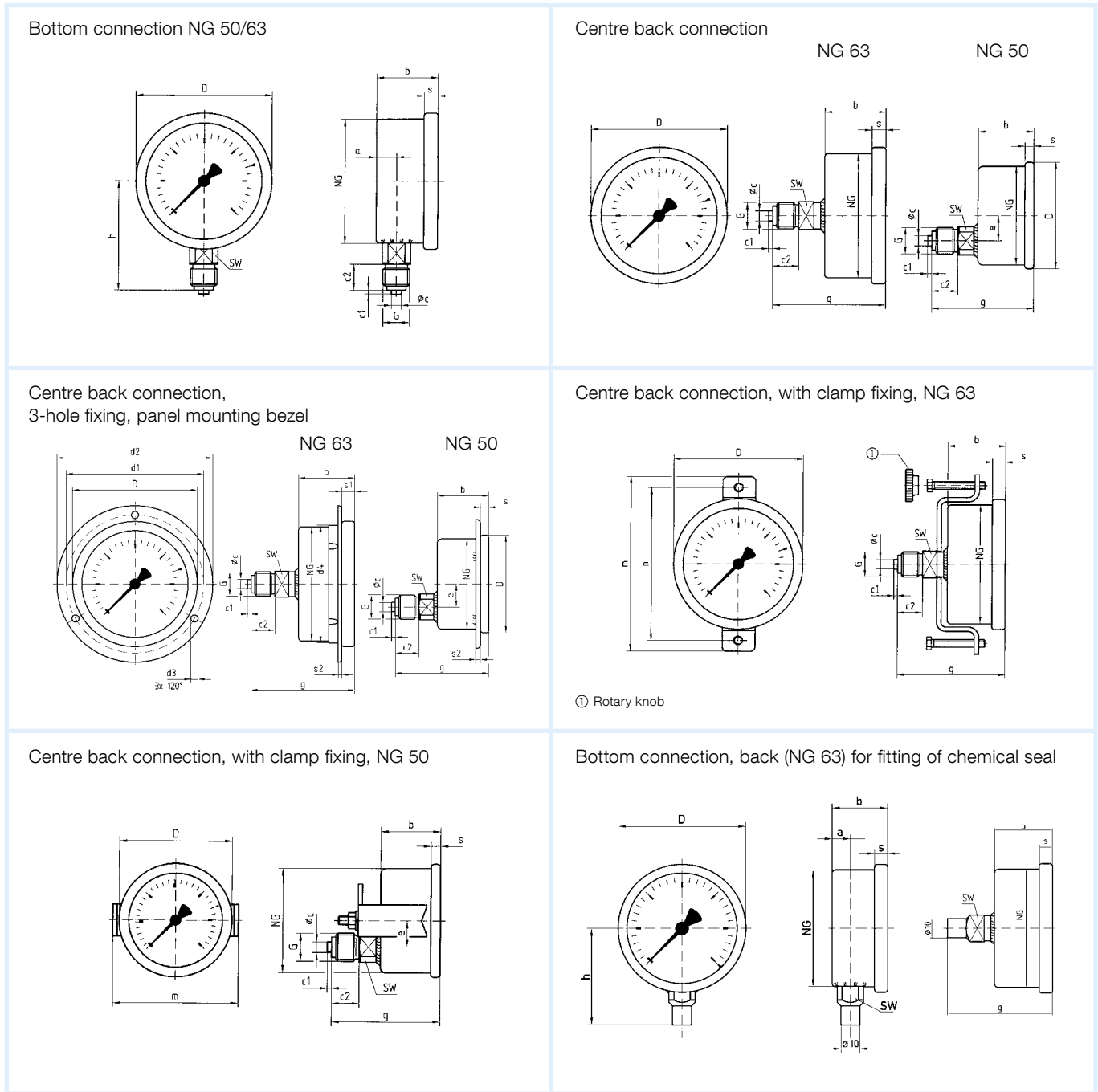
- Filling liquid silicone oil
- Plastic window (NG 63)
- Back flange (NG 63)
- Clamp fixing

- ATEX version 
- Crimped bezel, polished
- Special scales
- Other process connections

Bourdon tube pressure gauges for chemical applications with glycerine filling

Type D 7 – NG 50/63

1 Housing types and dimensions



Dimensions (mm)

Nominal size (NG)	a	a1	b	b1	Øc	c1	c2	d1*	d2*	d3*	d4	D	e	G	g	h	m	n	s	s1	s2
50	10.5	-	28	-	5	2	13	60	70	3.6	-	53	12.5	G1/4B	51	46	59	-	4.5	-	2.5
63	9.5	13	30.5	34	5	2	13	75	85	3.6	64	68	-	G1/4B	56	53	94	82	7	5.5	2
Nominal size (NG)	SW																				
50	14																				
63	14																				









* Dimensions as per DIN 16063.

Bourdon tube pressure gauges for chemical applications with glycerine filling

EN 837-1

DG: M, PG: 3

1

Type	RF50ChGly, D702	RF50ChGly, D712	RF50ChGly, D732	RF50ChGly, D752	RF63ChGly, D702	RF63ChGly, D712	RF63ChGly, D732	RF63ChGly, D752
Version								
Housing Ø	50	50	50	50	63	63	63	63
Housing	Stainless steel 304 with crimped bezel 304							
Measuring element	Bourdon tube, stainless steel 316 Ti/316 L							
Accuracy class	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Connection	G¼B	G¼B	G¼B	G¼B	G¼B	G¼B	G¼B	G¼B
			3-hole fixing, panel mounting bezel, 304, bare metal surface	Clamp fixing			3-hole fixing, panel mounting bezel, 304, bare metal surface	Clamp fixing
Range (bar)	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
Price €								
-1/0	85051702	85051712	85051732	85051752	85101702	85101712	85101732	85101752
-1/+0.6	85052702	85052712	85052732	85052752	85102702	85102712	85102732	85102752
-1/+1.5	85053702	85053712	85053732	85053752	85103702	85103712	85103732	85103752
-1/+3	85054702	85054712	85054732	85054752	85104702	85104712	85104732	85104752
-1/+5	85055702	85055712	85055732	85055752	85105702	85105712	85105732	85105752
-1/+9	85056702	85056712	85056732	85056752	85106702	85106712	85106732	85106752
-1/+15	85057702	85057712	85057732	85057752	85107702	85107712	85107732	85107752
Price €								
0/0.6	85059702	85059712	85059732	85059752	85109702	85109712	85109732	85109752
0/1	85060702	85060712	85060732	85060752	85110702	85110712	85110732	85110752
0/1.6	85061702	85061712	85061732	85061752	85111702	85111712	85111732	85111752
0/2.5	85062702	85062712	85062732	85062752	85112702	85112712	85112732	85112752
0/4	85063702	85063712	85063732	85063752	85113702	85113712	85113732	85113752
0/6	85064702	85064712	85064732	85064752	85114702	85114712	85114732	85114752
0/10	85065702	85065712	85065732	85065752	85115702	85115712	85115732	85115752
0/16	85066702	85066712	85066732	85066752	85116702	85116712	85116732	85116752
0/25	85067702	85067712	85067732	85067752	85117702	85117712	85117732	85117752
0/40	85068702	85068712	85068732	85068752	85118702	85118712	85118732	85118752
Price €								
0/60	85069702	85069712	85069732	85069752	85119702	85119712	85119732	85119752
0/100	85070702	85070712	85070732	85070752	85120702	85120712	85120732	85120752
0/160	85071702	85071712	85071732	85071752	85121702	85121712	85121732	85121752
0/250	85072702	85072712	85072732	85072752	85122702	85122712	85122732	85122752
0/400	85073702	85073712	85073732	85073752	85123702	85123712	85123732	85123752
Price €								
0/600	85074702	85074712	85074732	85074752	85124702	85124712	85124732	85124752
0/1,000	---	---	---	---	85125702	85125712	85125732	85125752

Minimum order quantity for non-stock items = 10 pieces.

Blue part no. = in-stock items



See page 72 for extra charges.