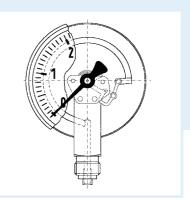


- Robust stainless steel housing
- Can be used in case of heavy vibrations and high, dynamic pressure loads
- Longer service life due to less wear and corrosion protection of the measuring system
- No steaming up of the inside of the window in case of outdoor applications





Application For gaseous and liquid media which are not highly viscous, do not crystallise and do not attack copper alloys. 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 Type specifications D7

Nominal size

50 - 63

Accuracy class (EN 837-1/6)

Ranges (EN 837-1/5)

-1/0 to -1/+15 bar 0/0.6 to 0/400 bar NG 63 to 0/600 bar

Application area

Static load: ¾ x full scale value Dynamic load: 2/3 x full scale value Short-term: full scale value

Operating temperature range

Medium: $T_{max} = +60 \, ^{\circ}C$ Ambient: $T_{min} = -20 \, ^{\circ}C$ $T_{max} = +60 \, ^{\circ}C$

Temperature performance

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

rising temperature approx. ±0.4 %/10 K falling temperature approx. ±0.4 %/10 K of full scale value

Degree of protection

IP 65 (EN 60529)

with housing vent (≤ 25 bar): IP 54

Standard version Connection

Brass, bottom or centre back G1/4B - spanner size SW 14 (EN 837-1/7.3)

Measuring element

Bourdon tube, copper alloy ≤ 60 bar "C" type tube > 60 bar helical tube

Movement

Brass

Dial

Aluminium, white Dial marking black

- Options Filling liquid silicone oil
 - Back flange (NG 63)
 - Clamp fixing
 - 3-hole fixing, panel mounting bezel (NG 63)
 - Crimped bezel polished

Pointer

Aluminium, black

Housing

Stainless steel 304 with blow-out

Crimped bezel

Stainless steel 304

Window

Plastic

Filling liquid

Glycerine (99.5 %)

- Special scales
- Clip reference pointer, red, adjustable (NG 63)
- Damping screw
- Other process connections

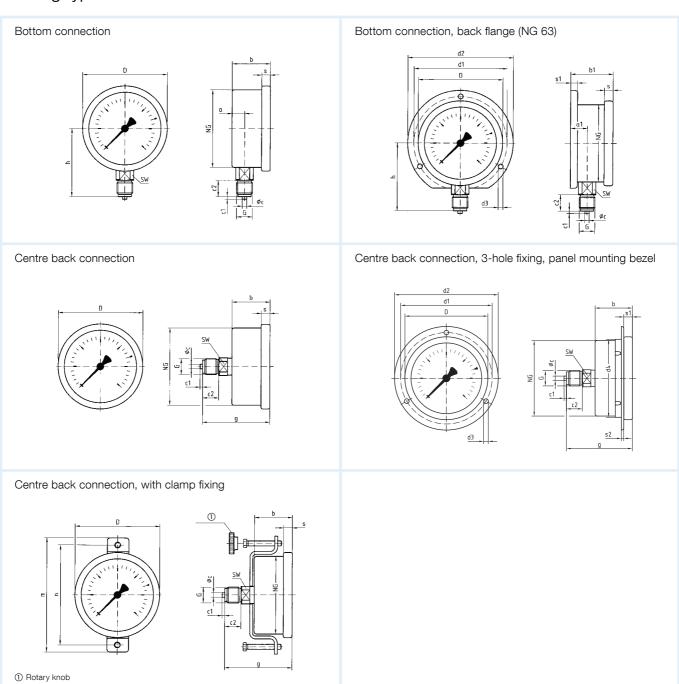




Glycerine filled Bourdon tube pressure gauges

Type D 7 - NG 50/63

Housing types and dimensions



Dimensions (mm)

Nominal size (NG)	а	a ₁	b	b ₁	Øc	C1	C 2	d1*	d2	d3*	d4	D	G	g	h	m	n	S	S1	S 2	SW
50	11	-	28	-	5	2	13	-	-	-	-	53	G1/4B	51	45.5	82	73	4.5	-	-	14
63	9.5	13	30.5	34	5	2	13	75	85	3.6	64	68	G¼B	53.3	53	94	82	7	5.5	2	14

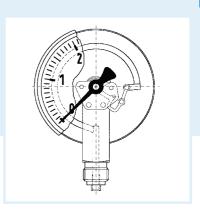
^{*} Dimensions as per DIN 16063.

Glycerine filled Bourdon tube pressure gauges EN 837-1



- Robust stainless steel housing
- Can be used in case of heavy vibrations and high, dynamic pressure loads
- Longer service life due to less wear and corrosion protection of the measuring system
- No steaming up of the inside of the window in case of outdoor applications





Application For gaseous and liquid media which are not highly viscous, do not crystallise and do not attack copper alloys. 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 Type specifications D7

Nominal size

80 - 100

Accuracy class (EN 837-1/6)

Ranges (EN 837-1/5)

-1/0 to -1/+15 bar 0/1 to 0/400 bar

Application area

Static load: 3/4 x full scale value Dynamic load: 2/3 x full scale value Short-term: full scale value

IP 65 (EN 60529)

Standard version Connection

Brass, bottom NG 80-100 G½B spanner size SW 22 Brass, centre back NG 80 G1/4B spanner size SW 14 NG 100 G1/2B - spanner size SW 22 (EN 837-1/7.3)

Measuring element

Bourdon tube, copper alloy ≤ 60 bar "C" type tube > 60 bar helical tube

Movement

Brass

Dial

Aluminium, white Dial marking, black

- **Options** Filling liquid silicone oil
 - Clamp fixing
 - 3-hole fixing, panel mounting bezel (NG 100)
 - Crimped bezel polished

Operating temperature range

Medium: $T_{max} = +60 \, ^{\circ}C$ Ambient: $T_{min} = -20 \, ^{\circ}C$ $T_{max} = +60 \, ^{\circ}C$

Temperature performance

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

rising temperature approx. ±0.4 %/10 K falling temperature approx. ±0.4 %/10 K of full scale value

Degree of protection

with housing vent (≤ 25 bar): IP 54

Pointer

Aluminium, black

Housing

Stainless steel 304 with blow-out

Crimped bezel

Stainless steel 304

Window

Plastic (Makrolon)

Filling liquid

Glycerine (99.5 %)

- Measuring system stainless steel (up to 1000 bar)
- Special scales
- Damping screw
- Other process connections



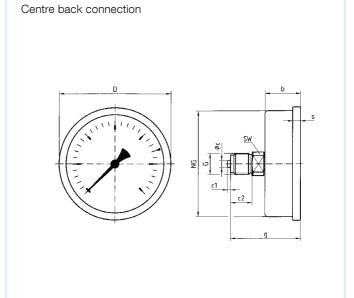


Glycerine filled Bourdon tube pressure gauges

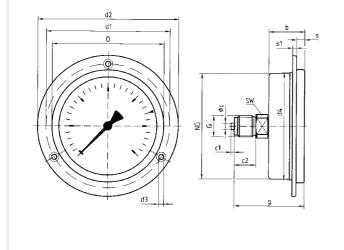
Type D 7 - NG 80/100

Housing types and dimensions

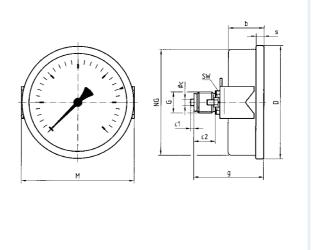
Bottom connection



Centre back connection, 3-hole fixing, panel mounting bezel (NG 100) $\,$



Centre back connection, clamp fixing



Dimensions (mm)

Nominal size (NG)	а	b	Øc	C1	C 2	d1*	d2	d 3*	d4	D	g	G	h	М	S	S1	SW
80 Ms ax	-	33.5	5	2	13	-	-	-	-	85	56.5	G1/4B	-	82	7	-	14
80 VA ax	-	33.5	5	2	13	-	-	-	-	85	59	G1/4B	-	82	7	-	14
80 Ms rad	12.2	33.5	6	3	20	-	-	-	-	85	-	G½B	71	-	7	-	22
80 VA rad	12.2	33.5	6	3	20	-	-	-	-	85	-	G½B	79.5	-	7	-	22
100 Ms	12.2	33.5	6	3	20	116	132	4.8	101	106	65.5	G½B	81	106	7	3.8	22
100 VA	11.8	33.5	6	3	20	116	132	4.8	101	106	76.5	G½B	90	106	7	3.8	22

^{*} Dimensions as per DIN 16064.

