

Bourdon Tube Pressure Gauges

Crimped-on ring case stainless steel

RChg 50
RChgG 50

Standard Versions

Information on general and metrological features (e.g. load limits/temperature resistance) and standard pressure ranges/scale divisions can be found in model overview 1000.

Accuracy (DIN EN 837-1)

Class 1.6

Class 2.5 for pressure range 0 – 600 bar (0 – 10,000 psi)

Case

With polished crimped-on ring, stainless steel 304 (1.4301)

Degree of Protection (DIN EN 60 529/IEC 529)

IP54

IP65 for model RChgG with closed blow-out plug

Blow-out Device

Blow-out plug at the top of the case coverage

Case Ventilation

Via blow-out plug, ventilation required for internal pressure compensation for measuring spans ≤ 10 bar, and also recommended for other pressure ranges if the operating conditions permit

Case Filling

For model RChgG: glycerin

Nominal Case Size

50 mm (2")

Wetted Parts

Connection: stainless steel 316L (1.4404)
Bourdon tube: stainless steel 316L (1.4404)
gas-shielded arc welding
 ≤ 100 bar (1,500 psi) c-form
 ≥ 160 bar (2,000 psi) helical form

Case Configuration

Connection: screwed

Position of the connection:
- bottom connection
- centre back connection (rm)

Mounting device:
- without
- for centre back connection:
- front flange for panel mounting (rmFr)
- u-clamp for panel mounting (rmBFr)

Pressure Ranges (DIN EN 837-1)

0 – 1 bar to 0 – 600 bar (0 – 15 psi to 0 – 10,000 psi)

Process Connection

G 1/4 B (1/4" BSP)

Window

Polycarbonate

Movement

Stainless steel



Dial

Aluminum white, scale black

Pointer

Aluminum black

Safety Category According to DIN EN 837-1

S1 pressure gauges with blow-out device

Ordering Information, Standard Pressure Ranges, Options

See pages 3 and 4

Special Versions and Further Options

- Special process connections, e.g. VCR-F, VCR-M (see technical information sheet T01-000-033), others upon request
- Other pressure ranges and/or special scales, e.g. dual scale bar/psi, coloured fields or ranges, dial inscriptions, negative scale
- Increased degree of protection, e.g. IP65 without case filling, upon request
- Other case fillings upon request
- Position of connection radial at 3 o'clock, 9 o'clock, 12 o'clock (others upon request) or other than vertical installation (90°), for unfilled instruments
- GOST version for Russia, Ukraine, Kazakhstan, Belarus

Accessories

See catalogue heading 11



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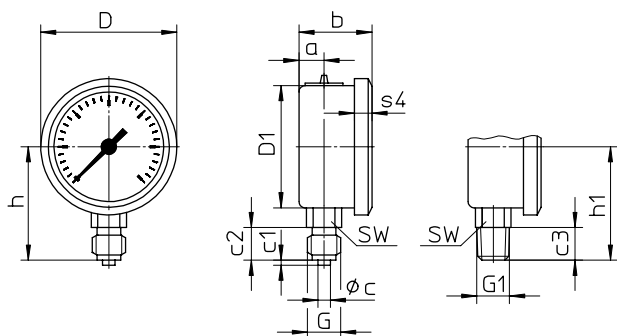
Case Configurations, Code Letters, Dimensional Data and Weights, Blow-out Device

Bottom Connection

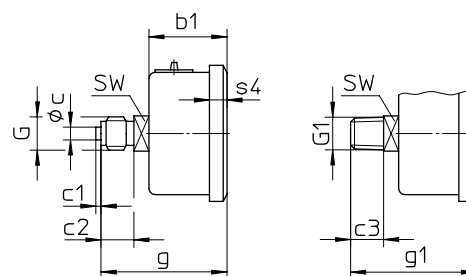
Centre Back Connection

without mounting device

(without code letters)

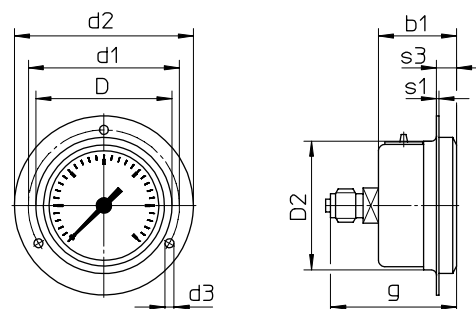


code letters: **rm**



with front flange for panel mounting

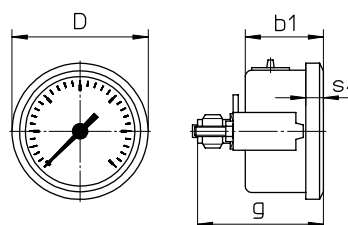
code letters: **rmFr**



recommended panel cut out $\varnothing 54 \pm 0.3 \text{ mm}$
($2.13 \pm 0.012''$)

with u-clamp for panel mounting

code letters: **rmBFr**



recommended panel cut out $\varnothing 51 \pm 0.3 \text{ mm}$
($2.01 \pm 0.012''$)

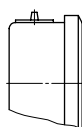
Dimensional Data (mm/inch) and Weights (kg/lb)

NCS	a	b	b1	c	c1	c2	c3	D	D1	D2	d1	d2	d3	G	G1	g	g1	h ^{±1}	h1 ^{±1}
50 2"	10 0.39	29 1.14	31 1.22	5 0.2	2 0.08	13 0.51	13 0.51	54 2.13	48.5 1.91	51 2.01	60 2.36	71 2.8	3.6 0.14	G 1/4 B M12x1.5	1/4" NPT	50 1.97	50 1.97	45 1.77	45 1.77

s1	s3	s4	SW	approx. weight ¹⁾	
				RChg	RChgG
1 0.04	8 0.31	7 0.28	14 0.55	0.09 0.2	0.13 0.29

Blow-out Device

Blow-out plug no. 19

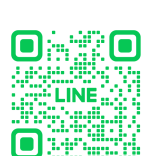


Ordering Information

Basic Model:		Bourdon Tube Pressure Gauge with Crimped-on Ring Case	RChg
Case filling:	without		without code letters
	glycerin		G
	fillable version		(G)
Nominal case size:	case Ø 50 mm (2")		50
Wetted material:	stainless steel		– 3
Case configuration:	case/connection	screwed	without code letters
	position of the connection	bottom connection	without code letters
		centre back connection	rm
	mounting device	without	without code letters
		front flange for panel mounting	Fr
		u-clamp for panel mounting	BFr
Pressure ranges:	–1200 / 0 mbar	30" hg vac. – 0 psi	
	–1 / 0 bar		
	–1 / +0.6 bar	30" hg vac. – 15 psi	
	–1 / +1.5 bar	30" hg vac. – 30 psi	
	–1 / +3 bar	30" hg vac. – 60 psi	
	–1 / +5 bar	30" hg vac. – 100 psi	
	–1 / +9 bar	30" hg vac. – 160 psi	
	–1 / +15 bar	30" hg vac. – 200 psi	
		30" hg vac. – 300 psi	
	0 – 1 bar	0 – 15 psi	
	0 – 1.6 bar		
	0 – 2.5 bar	0 – 30 psi	
	0 – 4 bar	0 – 60 psi	
	0 – 6 bar	0 – 100 psi	e.g. 0 – 6 bar
	0 – 10 bar	0 – 160 psi	
	0 – 16 bar	0 – 200 psi	
		0 – 300 psi	
	0 – 25 bar	0 – 400 psi	
	0 – 40 bar	0 – 600 psi	
	0 – 60 bar	0 – 800 psi	
		0 – 1,000 psi	
	0 – 100 bar	0 – 1,500 psi	
	0 – 160 bar	0 – 2,000 psi	
		0 – 3,000 psi	
	0 – 250 bar	0 – 4,000 psi	
		0 – 5,000 psi	
	0 – 400 bar	0 – 6,000 psi	
	0 – 600 bar	0 – 10,000 psi	
Process connection:	standard thread	G ¼ B	G ¼ B
	options	¼" NPT	¼" NPT
		M 12x1.5	M 12x1.5
		G ⅜ B	G ⅜ B
		⅜" NPT	⅜" NPT
Options:	see page 4		

Example:

RChg 50 – 3 rmFr, 0 – 6 bar, ¼" NPT



Ordering Information, Further Options

[illegible]

Special Versions: Please describe your requirements in cleartext!

