

Bourdon Tube Pressure Gauges

Crimped-on ring case stainless steel

RChg 40 – 3v
RChgG 40 – 3v

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)

IP65

IP54 with cut off blow-out plug no. 19

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 pressure ranges ≤ 10 bar, and also recommended for other pressure ranges if the operating conditions permit

Case Filling

For model RChgG: glycerin

Nominal Case Size

40 mm (1 1/2")

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:

welded

Position of the

connection:

- bottom connection

- centre back connection (rm)

- without

Mounting device:

- 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

1/8" NPT

Window

Instrument glass

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

S2 safety pressure gauge

Ordering Information, Standard Pressure Ranges, Options

See pages 3 and 4

Special Versions and Further Options

- Other process connections upon request
- Other pressure ranges and/or special scales, e.g. dual scale bar/psi, coloured fields or ranges, dial inscriptions, negative scale
- Case parts 316L (1.4404) upon request
- Other case fillings upon request
- Other than vertical installation (90°) only for model RChg
- GOST version for Russia, Kazakhstan

Accessories

Chemical seals:

see catalogue heading 7

Other accessory:

see catalogue heading 11



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ARMANO

ARMANO Messtechnik GmbH

Location Beierfeld

Am Gewerbepark 9 • 08344 Grünhain-Beierfeld
Tel.: +49 3774 58 – 0 • Fax: +49 3774 58 – 545
mail@armano-beierfeld.com

Location Wesel

Manometerstraße 5 • 46487 Wesel-Ginderich
Tel.: +49 2803 9130 – 0 • Fax: +49 2803 1035
mail@armano-wesel.com

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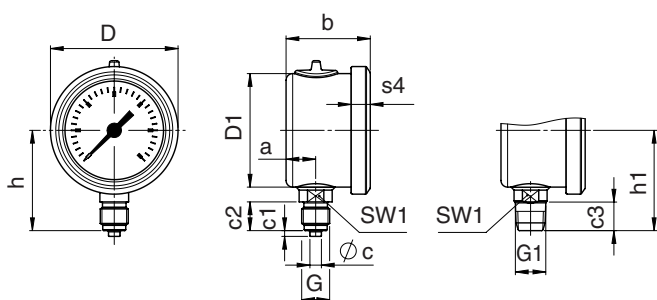
Case Configurations, Code Letters, Dimensional Data and Weights, Blow-out Device

Bottom Connection

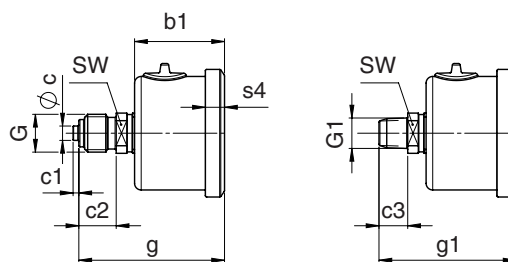
Centre Back Connection

without mounting device

(without code letters)

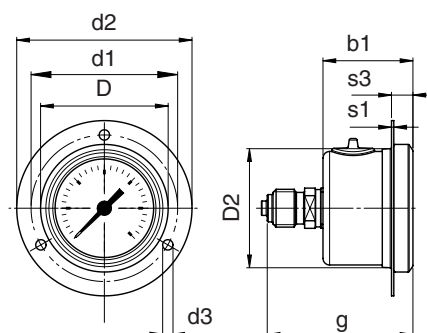


code letters: **rm**



with front flange for panel mounting

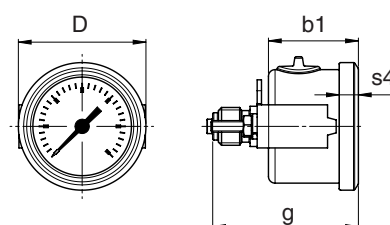
code letters: **rmFr**



recommended panel cut out $\varnothing 42.5 \pm 0.3$ mm (1.67 $\pm$ 0.01")

with u-clamp for panel mounting

code letters: **rmBFr**



recommended panel cut out $\varnothing 41 \pm 0.3$ mm (1.61 $\pm$ 0.01")

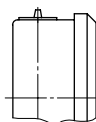
Dimensional Data (mm/inch) and Weights (kg/lb)

NCS	a	b	b1	c	c1	c2	c3	D	D1	D2	d1	d2	d3	G	G1	g
40 1½"	10.3 0.41	29.5 1.16	31.5 1.24	4 0.16	2 0.08	10 0.39	10 0.39	44.5 1.75	39.5 1.56	41.5 1.63	51 2.01	61 2.4	3.6 0.14	G ½B ⅛" BSP M10x1	⅛" NPT	48 1.89

g1	h±1	h1±1	s1	s3	s4	SW	SW1	approx. weight ¹⁾ RChg	RChgG
48 1.89	35 1.38	35 1.38	0.8 0.03	7.5 0.3	6.5 0.26	14 0.55	10 0.39	0.08 0.18	0.09 0.2

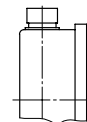
Blow-out Device

Blow-out plug no. 19



Optional

Blow-out plug no. 24
(reclosable, IP65)



¹⁾ data for version without mounting device



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 40 mm (1 ½")			40	
Wetted material:	stainless steel			– 3	
Case configuration:	case/connection	welded		v	
	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	1/8" NPT		1/8" NPT
		options	M 10x1		M 10x1
			G 1/8 B		G 1/8 B
only for centre back connection (rm) 1/4" NPT				1/4" NPT	
G 1/4 B				G 1/4 B	
M 12x1.5				M 12x1.5	
7/16" – 20 UNF				7/16" – 20 UNF	
7/16" SAE		7/16" SAE			
Options:	see page 4				

Example: RChg 40 - 3v rmFr, 0 - 6 bar, 1/8" NPT

Ordering Information, Further Options

[illegible]

Special Versions: Please describe your requirements in cleartext!