

Bourdon Tube Pressure Gauges

Polyamide Screw Ring Case,

Safety Category S3 according to EN-837-1



RSK 100
RSKG100

Standard Versions

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

Accuracy (EN 837-1)

Class 1.0

Case

Screw ring, rugged plastic,
glass fiber reinforced polyamide 6B

Case Protection Type (EN 60 529 / IEC 529)

IP 54,
IP 65 for model RSKG

Blow-out Device

Blow-out back, fixed with attachment flange; should the bourdon tube rupture, the entire case back separates, allowing full relief.

Case Ventilation

Model RSKG, without ventilation, but with internal pressure compensation by pressure equalizing membrane.

Case Filling

for model RSKG: glycerine

Nominal Case Size

100 (mm) (4")

Wetted Parts

Type -3: Connection: 1.4571 (316 stainless steel)
Bourdon tube: 1.4571 (316 stainless steel),
argon arc welding,
≤ 40 bar (600 psi) c-form
≥ 60 bar (800 psi) helical
1,600 bar (20,000 psi) NiFe-alloy, helical

Type -1: Connection: brass
Bourdon tube: ≤ 40 bar (600 psi) bronze, c-form
soft-soldered
≥ 60 bar (800 psi) 1.4571 (316 stainless steel), helical
silver brazed

Case Configuration

Connection: screwed
Position of the connection: bottom connection
Mounting device: without, optional back flange for
surface mounting (Rh), see page 2

Pressure Ranges (EN 837-1)

0-0.6 bar (0-10 psi) to 0-1,600¹⁾ bar (0-20,000 psi) for type -3
0-0.6 bar (0-10 psi) to 0-1,000 bar (0-15,000 psi) for type -1

Process Connection

G ½ B (½" BSP)

Window

Laminated safety glass

Movement

Stainless steel

Dial


Aluminum, black figures, white background



Pointer

Aluminum, black

Safety Category according to EN 837-1

S3, safety pressure gauge with break-proof solid front and blow-out back,
proved: pressure ranges 600 bar (10,000 psi)
marking , see also sectional drawing overleaf.

Ordering Information, Standard Pressure Ranges, Options:

see pages 3 and 4

Special Versions and further options among others

- Other process connections upon request, e.g. high pressure connection with external male thread (0-60 bar / 0-800 psi and above)
- Other pressure ranges and / or special scales, e.g. double scale bar/psi, coloured fields or areas, dial inscriptions, negative scale etc.
- Version as refrigeration gauge with temperature scale
- Increased case protection type, e. g. IP 65 without case filling, upon request
- Other case fillings upon request
- Model RSKG for ambient temperatures down to -40 °C (-40 °F) upon request
- Position of connection radial at 3 o'clock, 9 o'clock or 12 o'clock (others upon request) or other than vertical installation (90°)
- GOST-version for Russia, Ukraine, Kazakhstan
- Sour gas-resistant version according to NACE

Accessory:

Chemical seals: see catalogue-heading 7
Other accessory: see catalogue-heading 11



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Ordering Information, Standard Pressure Ranges, Options

Basic Model:	Bourdon Tube Pressure Gauge, Polyamide Screw Ring Case		RSK
Case Filling	without		without code letters
	glycerine		G
	fillable version		(G)
Nominal Case Size:	case- Ø 100 (mm) (4")		100
Wetted Material:	copper alloy		-1
	stainless steel		-3
	Monel, 0-0.6 bar (10 psi) to 0-1,000 bar (15,000 psi), movement stainless steel, laminated safety glass, bourdon tube Monel argon arc welding, ≤ 40 bar (0-600 psi) c-form, ≥ 60 bar (1,000 psi) helical, bottom connection		-6
Case Configuration:	case / connection	screwed	without code letters
	position of the connection:	bottom connection	without code letters
	mounting device:	without	without code letters
		back flange for surface mounting	Rh
Pressure Ranges:	-1,200 – 0 mbar	30" Hg vac. – 0	
	-0.6 – 0 bar		
	-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 – 0.6 bar	0 – 10 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 – 25 bar	0 – 300 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 – 250 bar	0 – 3,000 psi	
		0 – 4,000 psi	
	0 – 400 bar	0 – 5,000 psi	
		0 – 6,000 psi	
	0 – 600 bar	0 – 10,000 psi	
	0 – 1,000 bar	0 – 15,000 psi	
	0 – 1,600 bar for type -3	0 – 20,000 psi	
Process Connection:	standard thread	G ½ B (½"BSP)	G ½ B
	options:	½" NPT	½" NPT
		M 20 x 1.5	M 20 x 1,5
		G ¼ B	G ¼ B
		¼" NPT	¼" NPT
		M 12 x 1.5	M 12 x 1,5
		high pressure connection female thread (0-60 bar and above) for ¼" tube, with 60° cone	
		M 16 x 1.5	HD-Anschluss M 16x1,5
		9/16" - 18 UNF	HD-Anschluss 9/16" - 18 UNF
Options:	see page 4		
Example:			RSK 100-3 Rh, 0-6 bar, G ½ B

Further Options regarding Ordering Information

Basic Model:	Bourdon Tube Pressure Gauge, Polyamide Screw Ring Case	RSK
Model Code:		see page 3
Options:	<p>adjustable pointer, aluminum mechanism</p> <p>red mark on the dial</p> <p>stationary on the dial,</p> <p>red pointer adjustable when removable ring</p> <p>receiver gauge 0.2-1 bar, scale 0-100%</p> <p style="text-align: right;">linear</p> <p style="text-align: right;">square</p> <p>indication accuracy grade 2A ($\pm 0.5\%$) according to ASME B 40.1¹⁾</p> <p>special adjustment (reference points = odd values, e. g. 100 KN = 8.735 bar)</p> <p>window polycarbonate (PC)</p> <p>screw ring ABS chrome-plated</p> <p>density examination with helium leak detection up to of the measuring unit 10^{-9} mbar l/s for types -3 and -6</p> <p>wetted parts, free of grease and oil, up to 0-600bar (0-10,000 psi) adjustment ≤ 250 bar (3,000 psi) with dry air, ≥ 400 bar (5,000 psi) with distilled water, dial marking: symbol cancelled oil can</p> <p>oxygen version up to 0-600 bar²⁾ (0-10,000 psi) free of grease and oil, additional restrictor screw in the inlet port, orifice $\varnothing 0.3$ mm (0.01"), dial inscription: oxygen</p> <p>silicone-free version</p> <p>restrictor screw in orifice $\varnothing 0.8$ mm (0.03") pressure inlet port orifice $\varnothing 0.6$ mm (0.02") (not Monel) material: as process orifice $\varnothing 0.3$ mm (0.01") (not Monel) connection brass, stain- less steel or Monel</p> <p>measuring point stainless steel-plate 12 mm x 55 mm (0.47" x 2.17"), wire mounting marking or sticker on case coverage</p> <p>deflagration volume version 5 according DS 11001 protection Adapt FS</p>	<p>(order at the moment still as cleartext)</p>

Special Versions: Please describe your requirements clearly

¹⁾ for pressure ranges $\leq 10,000$ psi ²⁾ for instruments without case filling Technical changes, replacement of materials and errors excepted.