Test Gauges Bourdon Tube Type **Bayonet Ring Case Stainless Steel** Standard (RFCh) or Liquid Filled (RFChG)

Application

Testing and comparing process instruments, and measuring services where high accuracy is required. Pressure ranges up to 0-25 bar (400 psi) for gaseous media, dial marked with "G", 0-40 bar (600 psi) and up for liquid media (dial marked with "F"). Stainless steel case with high chemical resistance.

Nominal Case Size (NCS)

Model RFCh: 160 mm (6"), 250 mm (10"), model RFChG

Accuracy

Class 0.6 according to EN 837-1

Pressure Ranges (EN 837-1)

Version -1* = 0-0.6 ... 0- 600 bar or 0-10 psi ... 0-10,00 Version -3* = 0-0.6 ... 0-1,600 bar or 0-10 psi ... 0-30,00 Model RFChG 0-2.5 bar resp. 0-30 psi and up for all ver also vacuum and compound ranges (*se

Pressure Limitations

full scale value Steady pressure: Cyclic pressure: 90% of full scale value Overpressure: 130% of full scale value

Protection Type (EN 60529 / IEC 529) Model RFCh: IP 54 / Model RFChG 160: IP 65

Further information about advantages, specifications, temperature limitations and pressure ranges of test gauges can be found in our model overview 2000.

Standard Configuration

Connection

G ½ B (½" BSP), optionally ½" NPT, bottom connection (standard) or lower back connection (code letter r)

Wetted Parts

Ordering Code –	Bourdon tube: ≤ 40 bar (≤600 psi) 60 bar (≥800 psi) ≥ 100 bar (≥1,500 psi)	 bronze, C-form, soft soldered copper/beryllium, C-form, silver brazed 316 stainless steel (1.4571), helical, silver brazed 316 stainless steel (1.4571) 	 Movement stainless steel with jewel bearin Maximum indicating pointer, external adjustiens (pressure ranges ≥ 2.5 bar or 30 psi) Acrylic glass lens, or for version –1 laminat Special scales, such as dual scales, e.g. bar or 3-15 psi Top or side connection or installation not veright side (right side from a viewer's perspective) Bleeding port at the tip of the Bourdon tube Version –1, pressure ranges ≥ 100 bar with of hardened, tempered alloy steel, C-form, Wetted parts monel (ordering code –6) up (6,000 psi) Electrical accessories upon request 				
Movement	(≥800 psi) ≥ 1000 bar (≥15,000 psi)	helical, argon arc welded = NiFe alloy, helical, argon arc welded	How to Order: Model code/nom. size	e: RFCh 160 or 250 RFChG 160			
Brass/German s Dial	ilver, low friction		Wetted parts: (compare left)	RFCh(G) 160 ordering code –1 o			
Pointer	black figures, wh	Case configuration: (see reverse side)	code letters: r , I RFCh 160 also: rB (standard case = botto without code letter)				
Case and Bayo 304 stainless ste			Pressure range: Process connection:	acc. to EN or ASMI G ¹ / ₂ B (¹ / ₂ " BSP) (= or ¹ / ₂ " NPT (others			
	60 only: Glycerir	Special configurations: see above) Examples for Ordering Information					
Lens Version –3: lami	nated safety glass	s, version –1 single strength glass	 RFChG 160–3, rFr, 0-6 bar, ½" BSP RFCh 250–1, -1/+9 bar, ½" NPT 				

NCS: 250 (10") 0.6 EN 837-1

160 (6")

Models RFCh **RFChG**



Accuracy Class

Model RFCh: 1" blow-out in the back of the case Model RFChG: top blow-out assembly

Optional Special Configurations

- Test gauge Grade 3A ASME (±0.25%), parallax-free mirror scale
- Accuracy class 0.25 EN 837-1, with parallax-free mirror scale, for RFCh 250-1; for -3 and NCS 160 upon request
- Zero adjustment by a turnable dial (± 5 scale graduations), knurled adjustment screw at the right side, for models RFCh 160, 250 Parallax-free mirror scale
- Case size 100 (4") upon request
- Process connection ¼" NPT or M 20 x 1,5, others upon request
- Inlet port restrictor screw brass or stainless steel
- Movement stainless steel with jewel bearing
- adjustment, acrylic glass (iza 0
- aminated safety glass lens
- e.g. bar/psi
- not vertical, e.g. 90° to the ective)
- n tube for models RFCh
- ar with Bourdon tube made -form, screwed together
- -6) up to range 0-400 bar

(dry version)

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	RFChG 160 RFCh(G) 160	(glycerine filled) (fillable version)				
Wetted parts: (compare left)	ordering code -1 or	-3				
Case configuration: (see reverse side)	code letters: r , R RFCh 160 also: rBF (standard case = bottom without code letter)	Fr Í				
Pressure range:	acc. to EN or ASME	, e.g. 0-6 bar				
Process connection:	G ¹ ⁄ ₂ B (1⁄ ₂ " BSP) (= or 1⁄ ₂ " NPT (others s	,				
Special configurations:	see above)					
Examples for Ordering Information: • RFChG 160–3, rFr, 0-6 bar, ½" BSP • RFCh 250–1, -1/+9 bar, ½" NPT						



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Case Configurations, Code Letters, Dimensional Data, and Weight

Bottom connection, without code letter

D

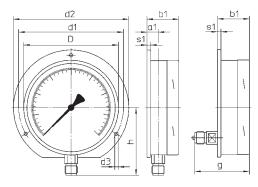
SW @c G Bottom connection,

front flange,

code letters: Fr

Lower back connection, code letter: **r**

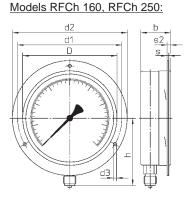
Bottom connection, rear flange¹⁾, code letters: **Rh** Lower back connect., rear flange¹⁾, code letters: **rRh**



Lower back connection, front flange, code letters: **rFr**

Models RFCh 160, RFCh 250:

Model RFChG 160:

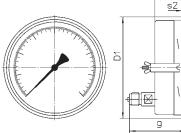


Front flange, NCS 160 with longholes, attached to the case, and a separate cover front flange

Model RFCh 160 only (liquid filled case not available):

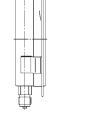
Lower back connection, U-clamp for panel mounting,

code letters: **rBFr**



Dimensional Data (mm / inches) and Weight (kg / lb)

b ,



s2

Mounting brackets welded to the case, and a separate front flange

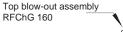
q



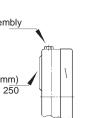
Mtg. brackets welded to the case, and a separate front flange

Front flange, NCS 160 with longholes, attached to the case, and a separate cover front flange

Safety Blow-Outs



Optionally: 1" Blow-out (25,4 mm) RFCh 160, RFCh 250



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Nominal Case Size	а	a1	b	b1	с	c1	c2	c3	D	D1	d1	d2	d3	е	g	g1
160		19	51	54					161	167	178	196			92.5	91.5
6"	15.5	.75	2.01	2.13	6	3	20	19	6.34	6.57	7.08	7.72	5.8	52	3.64	3.60
250	.61	17.5	58	60	.24	.12	.79	.75	251		270	285	.23	2.05	97	96
10"		.69	2.28	2.36					9.88	-	10.63	11.22			3.82	3.78
Nominal Case Size	G	G1	G	62	h	h1	s	s1	s2	s3	SW	SW1	RFCh Weight (approx.)			ChG approx.)
160					115	114	2.5	6	6	1.5			1.1	00	1.9	950
6"	G ½ B	½" NPT	MOO	v 1 E	4.53	4.49	.10	.24	.24	.06	22	17	2.	43	4.:	30
250	½" BSP	72 INP I	101 20	x 1,5	165	164	2	2	7	2	.87	.67	2.1	00		

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¹⁾ NCS 250 with mounting brackets welded to the case

10"

The information in this leaflet is given in good faith, but we reserve the right to make changes without notice.

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SW'

Model RFChG 160: