Bourdon Tube Pressure Gauges 4000 bar

Bayonet Ring Case Stainless Steel Standard (RSCh) or with Liquid Filling (RSChG)

Accuracy Class 1,0 NCS 100 Models 160

RSCh **RSChG**

Application

High pressure measurement up to 4000 bar (60,000 psi)

Nominal Case Sizes

100 mm (4"), 160 mm (6")

Accuracy according to EN 837-1

Class 1.0 (accuracy indication ± 1.0% of full scale value)

Pressure Range

0-4000 bar (0-60,000 psi)

Pressure Limitations

full scale value at steady load: at dynamic load: 65% of full scale value Overrange protection: max. full scale value

Protection Type (EN 60 529 / IEC 529) Model RSCh: IP 54 / Model RSChG: IP 65

Further information on advantages, applications, metrological features and pressure ranges of all available bourdon tube pressure gauges of accuracy class 1.0 to 2.5 can be found on general information leaflet 1000.

Standard Version

Process Connection

High pressure connection with female thread M 16x1.5 and cone for $\frac{1}{4}$ " tube, NCS 160 (6") with fitting for gauge holder bracket

Wetted Parts

Socket: 1.4404 (316 stainless steel 1) Version - 3:

Bourdon tube: NiFe alloy, helical,

NCS 160 (6") screwed,

NCS 100 (4") argon arc welded

Movement

Stainless steel

Aluminum, black figures, white background

Pointer

Aluminum, black

Case and Ring

1.4301 (304 stainless steel), bayonet ring

Case Filling (Model RSChG only)

Glycerine

Window

Laminated safety glass, thickness of 4 mm (.16") for NCS 100 (4"), thickness of 6 mm (.24") for NCS 160 (6"),

marked with "SAFETY GLASS"

Safety version similar to S3 according to EN 837-1 with solid front between measuring system and dial, as well as a blow-out back; should the bourdon tube pressurise, the entire case back separates, allowing full relief;

filled versions NCS 100 (4") additionally with pressure equalizing membrane, NCS 160 (6") top ventilation device

Accessories for NCS 160:

Gauge holder bracket aluminum black, distance 60 mm (2.36"), model no. Z-067001, included to shipment for standard version (Mgh) of NCS 160 (6").

1) respectively NCS 160 may still be supplied with socket made of 1.4401 as long as there is stock in store, details upon request



- HP connection 9/16-18 UNF (for 1/4" tube) and others
- Pressure ranges 0-3000 bar (0-40,000 psi), others upon request
- · Special scales, e.g. double scales or with fine division (knife-edge pointer)
- · Adjustable pointer, mechanism aluminum
- · Adjustable stationary red pointer on the dial upon request
- Other than vertical installation, e.g. 90° to the right
- Other versions of a gauge holder bracket for NCS 160 (6"): Aluminum black, distance 100 mm (3.94") = order no. Z-067002 Aluminum black, distance 160 mm (6.3") = order no. Z-067003 Stainless steel, distance 100 mm (3.94") = order no. Z-063002 Stainless steel, distance 160 mm (6.3") or 60 mm (2.36") upon request
- Electrical accessories (compare data sheets 9000 ff) upon request

Ordering Information:

Please specify:

upon request

Basic model: **RSCh** = no case filling

RSChG = liquid filled case

(glycerine)

Nominal case size: 100, 160

Ordering code for

wetted parts: - 3, compare left

Code letters for

case configuration: Rh or Fr, (compare reverse side)

Standard case version = no code letters

Pressure range: 0-4000 bar

Special options: (see above)

Examples for Ordering Information:

• RSCh 100-3, 0-4000 bar

Am Gewerbepark 9

manotherm.com

Phone: (0 37 74) 58 - 0

• RSChG 160-3, Fr, 0-4000 bar



ARMATURENBAU GmbH Manometerstraße 5

Subsidiary Company and Sales East Germany and Eastern Europe

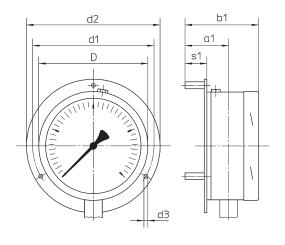
Case Configuration, Code Letters, Dimensional Data and Weight

Bottom connection, standard version (no code letters required for orders)

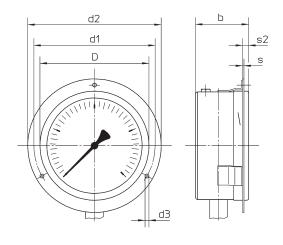
NCS 160: for gauge holder bracket (Mgh)

NCS 100 а \vdash SW d5 This standard version Mgh for RSCh 160 includes a gauge holder bracket aluminum black, Д6 d7 distance 60 mm (2.36"), model no. Z-067001. ď7 д8 60°

Bottom connection, rear mounting flange, code letters: Rh



Version Rh includes 3 separate mounting spacers. Bottom connection, Front flange for panel mounting, code letters: Fr



Version Fr = 3 mounting brackets welded to the case and a separate three-hole flange

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

Differsional Data (min/ friches) and weight (kg/ lb)																								
1	NCS	а	a1	b	b1	D	d1	d2	d3	d4	d5	d6	d7	d8	h ±1	0	s	s1	s2	t	t1	u	u1	SW
	100	27	52	60	90	101	116	132	4.8		MA			7	71		1	26	7			1 1	1	i l
	4"	1.06	2.05	2.36	3.54	3.98	4.57	5.2	.19	M4 2.5	1 2	M16x1.5	_ 2	2.8	-	.04	1.02	.28	9.5	11	_	_	22	
											2.5	.17	HP				ı l		.		40			.87
	160	34	64	78	108	161	178	196	5.8	M5 .1	1 .1			26	139	63	1.5	32 8	8	.37	.43	65	56	
	6"	1.34	2.52	3.07	4.25	6.34	7.1	7.72	.23					1.02	5.47	2.48	0.06	1.26	6 .31		2.56	2.2	í I	

approx. 0.65 kg (1.43 lb) Weight: RSCh 160 2.00 kg (4.40 lb) RSCh 100 approx. RSChG 160 3.10 kg (6.83 lb) RSChG 100 approx. 1.00 kg (2.20 lb) approx.

Our instruments are developed constantly, therefore changes are excepted.