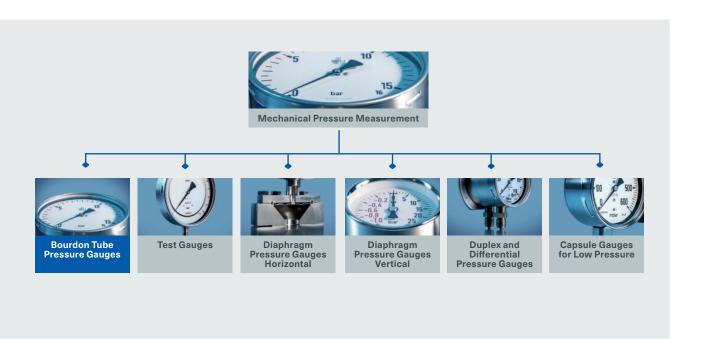




Mechanical Pressure Measurement

Bourdon tube pressure gauges



Quality Made in Germany

Mechanical Pressure Measurement

The ARMANO Messtechnik GmbH represents tradition and innovation in the production and distribution of precision pressure and temperature measuring instruments, which have an excellent reputation worldwide – for more than 100 years.

We are continually developing customer-specific solutions for a variety of applications requiring pressure and temperature measuring technology. Their use is manifold and there are always new applications. Mechanical pressure gauges are indicating pressure measuring instruments for gauge, absolute and differential pressure.

For the optimal solution of various applications, we distinguish between the following product categories: Bourdon tube pressure gauges, Bourdon tube test gauges, diaphragm pressure gauges (horizontal/vertical diaphragm), duplex and differential pressure gauges and capsule gauges for low pressure.

In this brochure, you will find our standard range of mechanical pressure measuring instruments from our product range $Bourd on tube \, pressure \, gauges, including \, additional \, electrical \,$ accessories.

Your instrument is not listed here?

Jointly, we will find a suitable solution for your application.

Do not hesitate to contact us!

Applications General Features Metrological Information Dial / Standard Scales / Scale Division Certificates and Approvals Standard Pressure Gauges **Special Pressure Gauges** Low Cost Pressure Gauges Chemical Seal Mounting Additional Electrical Accessories Service

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Our Products at a Glance







Electronic Pressure Measurement



Chemical Seal



Calibration



Mechanical Temperature Measurement



Electrical Temperature Measurement



Applications

Bourdon tube pressure gauges are suitable for the measurement of positive and negative overpressures between 0-0.6 and 0-6000 bar for liquid or gaseous media. The information given in DIN EN 837-2 have to be considered for the selection of the suitable measuring instrument. In particular, it has to be ensured that the medium does not corrode any of the wetted parts.

Fields of Application

Our high-quality pressure gauges are applicable in a wide range of fields. With our impressive customer solutions for various industries, we show you which ones are suitable for you!



Customer Solutions

Numerous customer solutions are available for almost all models. Thus, only a few examples are specified below. Further possibilities can be found in the data sheets or other technical documents of the respective models. Further individual special configurations are available upon request.

No matter what requirements and needs your application has, together with our technicians we will find an ideal solution for you – please contact us!



General Features

Selection Criteria

A detailed description of the selection criteria can be found in the commentary of the DIN e. V. "Überdruckmessgeräte nach DIN EN 837" ("Overpressure measuring instruments according to DIN EN 837", available in German only), published by the Beuth Verlag. Please compare the selection criteria for pressure gauges described in our operating instruction, which can be found as pdf file on our website.

Standard Material Combinations

(for the wetted parts)

Depending on the process, a wide range of materials are applied to meet the demands on temperature resistance, mechanical strength and chemical resistance. Additionally, we provide particularly economic, material-saving construction types for special materials. There, only the wetted parts are made of the special material.

Ordering code	Pressure ranges	Connection	Bourdon tube
- 1		brass	bronze
	high ranges	brass	stainless steel 316L
-3		stainless steel 316L	stainless steel 316L
	high ranges	stainless steel 316L	NiFe alloy
- 6	for almost all models	Monel	Monel

Process Connections

With only a few exceptions, our Bourdon tube pressure gauges are available with the following process connections according to DIN EN 837-1:

G¼B (¼" BSP) up to NCS 63 G ½ B (½" BSP) from NCS 80

Almost all models are available with the following connections without any extra charges:

¼" NPT or M 12x1.5 up to NCS 63 ● ½" NPT or M 20x1.5 from NCS 80

Please note:

Process connection G1/4 B, 1/4" NPT and M12x1.5

according to DIN EN 837-1

max. pressure range 600 bar (type - 1)

1000 bar (type - 3)

Further versions are available as customised product.

Pressure Ranges

Bar is the preferred pressure unit according to DIN EN 837-1. In this model overview, the available pressure ranges are indicated in bar. Beyond that, there are several further pressure units available, e.g. psi, mmWS, kg/cm², kPa, MPa.

Multiple scales are available as well.

Special scales can be manufactured upon request.

For applications in refrigeration engineering, our pressure gauges can be provided with temperature scales for the different refrigerants.



Case Fillings

Case fillings are applied for difficult operating conditions, such as vibrations and high pressure variations or to avoid condensation (outdoor installations). The standard filling liquid is glycerin (models ...G) or a special oil for pressure gauges with mounted additional electrical accessory (models ...Oe). For lower temperatures, silicone oil is used.

For further details on temperature limitations, see page 7.



General Features

Construction

The measuring systems of Bourdon tube pressure gauges are designed regardless of measurand and pressure range. Each measuring system has a socket with process connection on the one side and connection of the measuring element (Bourdon tube) on the other side. Depending on the nominal pressure, this Bourdon tube is designed in circular form (for smaller nominal pressures) or in helical form (for higher nominal pressures). The movement transmits the motion of the measuring element, which is proportional to the pressure, into a rotary pointer motion, enabling the pressure to be indicated on the scale of the dial. These components form a constructional unit ready for measurement. Case, ring and window serve as protection against external influences.

Bourdon Tube Measuring System, Circular Form



Bourdon Tube Measuring System, Helical Form



Media

for gaseous and liquid media

Pressure Ranges

from 0 - 0.6 bar to 0 - 6000 bar

Metrological Information

Accuracy according to DIN EN 837-1 and DIN 16001

The scope of both standards depends on the pressure range of the Bourdon tube pressure gauge. DIN EN 837-1 applies to instruments with pressure ranges up to 1600 bar. For pressure ranges over 1600 bar, DIN 16001 is to be applied.

DIN EN 837-1

According to DIN EN 837-1, the accuracy class includes the combination of the error variables non-linearity, hysteresis and friction. The maximum permissible measurement error applies to each measuring point within the pressure range. In addition, DIN EN 837-1 specifies that the hysteresis error at each measuring point must not exceed the value of the accuracy class, i.e. the hysteresis must not exceed 50 % of the permissible error band.

- Class 1.6 up to NCS 80
- Class 1.0 from NCS 100

DIN 16001

DIN 16001 specifies the accuracy class in the same way except that the hysteresis error at each measuring point must not exceed twice the value of the accuracy class, i.e. each measuring point must be within the tolerance band and the hysteresis may cover the entire width of the error band.

Please regard possible limitations in the data sheets!

Load Limits

To guarantee a long service life, the pressure range should be selected in a way to ensure that the pressure load does not exceed 75 % of the full scale value for steady loads or 60 % of the full scale value for dynamic loads.

It is also recommended not to use the initial range (up to approx. 20 %) of the pressure gauge for measurements, because there the permissible measurement deviation is the largest in relation to the measured value.

The following maximum load limits are to be regarded:

According to DIN EN 837-1	According to DIN 16001		
Nominal case sizes	100, 125, 160, 250, 4½" and 96 x 96, 144 x 144	40, 50, 63, 80	100, 160
at steady load	full scale value	75 % of the full scale value	75 % of the full scale value
max. permissible overpressure	1.3-times measuring span	full scale value	full scale value

Temperature Limitations

Medium temperature:

Ordering code	Case	Joint	Unfilled	Filled
- 1		soft soldered silver brazed	+60 °C (+140 °F) +100 °C (+212 °F)	+60 °C (+140 °F) +100 °C (+212 °F)
	plastic	silver brazed		+70 °C (+158 °F)
-3	stainless steel		+200 °C (+392 °F)	+100 °C (+212 °F)
	plastic		+100 °C (+212 °F)	+70 °C (+158 °F)

Storage temperature: -40 / +70 °C (-40 / +158 °F) for glycerin filling -20 / +70 °C (-4 / +158 °F) for silicone filling -20 / +60 °C (-4 / +140 °F) Ambient temperature:

unfilled	standard	-40 / +60 °C (-40 / +140 °F)
	customised	-60 / +60 °C (-76 / +140 °F)
filled	standard	-20 / +60 °C (-4 / +140 °F)
	customised	-40 / +60 °C (-40 / +140 °F)

Please regard possible limitations in the data sheets. Please contact us if you require instruments with higher or lower temperature limitation.

Reference temperature: +20 °C (+68 °F)

If the operating temperatures of the measuring system (resilient element and movement) deviate from the reference temperature, additional deviations of the pressure indication do occur. These can be up to 0.5 % of the span per 10 K.

Dial / Standard Scales / Scale Division

Dial inscriptions, pressure range, scale divisions and figures on the scale are designed according to DIN EN 837-1 or DIN 16001. The standard dial is white with black inscription. Pressure gauges from NCS 80, to a great extent also NCS 63, are provided with a clearly identifiable instrument number on the dial.

Pressure ranges DIN EN 837-1 in vacuum compound range pressure		g to		Smallest subdivision of the scale (bar)
vacuum	-1200	/	0 mbar	20 mbar
	-1	/	0	0.02
	-0.6	/	0	0.01
compound	-1	/	+0.6	0.05
range	-1	/	+1.5	0.05
	-1	/	+3	0.1
	-1	/	+5	0.1
	-1	/	+9	0.2
	-1	/	+15	0.5
pressure	0.2	-	1	0.02
	0	-	0.6	0.01
	0	-	1	0.02
	0	-	1.6	0.05
	0	-	2.5	0.05
	0	-	4	0.1
	0	-	6	0.1
	0	-	10	0.2
	0	-	16	0.5
	0	-	25	0.5
	0	-	40	1
	0	-	60	1
	0	-	100	2
	0	-	160	5
	0	-	250	5
	0	-	400	10
	0	-	600	10
	0	-	1000	20
	0	-	1600	50
	0	-	2500 1)	50
	0	-	4000 1)	100
	0	-	5000 1)	100
	0		6000 1)	100

Pressure ranges	in psi			Smallest subdivision of the scale (psi)
vacuum	-30" Hg	1 /	0	-0.2" Hg
compound	-30" Hg	1 /	+15	-0.5" Hg / +0.2
range	-30" Hg	1 /	+30	-1" Hg / +0.5
	-30" Hg	1 /	+60	-1" Hg / +1
	-30" Hg	1/	+100	-2" Hg / +1
	-30" Hg	1 /	+160	-5" Hg / +2
	-30" Hg	1/	+200	-5" Hg / +2
	-30" Hg	1/	+300	-10" Hg / +5
pressure	3	-	15	0.2
	0	-	10	0.1
	0	-	15	0.1
	0	-	30	0.2
	0	-	60	0.5
	0	-	100	1
	0	-	160	2
	0	-	200	2
	0	-	300	2
	0	-	400	5
	0	-	600	5
	0	-	800	10
	0	-	1000	10
	0	-	1500	10
	0	-	2000	20
	0	-	3000	20
	0	-	4000	50
	0	-	5000	50
	0	-	6000	50
	0	-	10000	100
	0	-	15000	100
	0	-	20000	200
	0	-	30000	200
	0	-	35000	200
	0	-	40000	500
	0	-	50000	500
	0	-	60000	500

63	Pressure ranges DIN EN 837-1 in	Smallest subdivision of the scale (bar)			
Ļ	vacuum	-1200	/	0 mbar	50 mbar
20		-1	/	0	0.02
ó		-0.6	/	0	0.02
4	compound	-1	/	+0.6	0.05
S	range	-1	/	+1.5	0.1
ŭ		-1	/	+3	0.1
S		-1	/	+5	0.2
e e		-1	/	+9	0.2
ä		-1	/	+15	0.5
Nominal Case Sizes 40, 50,					
g	pressure	0.2	-	1	0.02
÷		0	-	0.6	0.02
Ĕ		0	-	1	0.02
ž		0	-	1.6	0.05
		0	-	2.5	0.1
		0	-	4	0.1
		0	-	6	0.2
		0	-	10	0.2
		0	-	16	0.5
		0	-	25	1
		0	-	40	1
		0	-	60	2
		0	-	100	2
		0	-	160	5
		0	-	250	10
		0	-	400	10
		0	-	600	20
		0	-	1000	20

					(1)
Pressure ranges	in psi			Smallest subdivision NCS 40, 50	n of the scale (psi)
vacuum	-30" H	a /	0	-1" Hg	-0.5" Hg
compound	-30" H		+15	-1" Hg / +0.5	-1" Hg / +0.5
range	-30" H	•	+30	-2" Hg / +1	-1" Hg / +0.5
	-30" H	g /	+60	-5" Hg / +2	-2" Hg / +2
	-30" H	g /	+100	-5" Hg / +2	-5" Hg / +2
	-30" H	-		-10" Hg / +5	-5" Hg / +2
	-30" H	g /	+200	-10" Hg / +5	-10" Hg / +5
	-30" H	g /	+300	-10" Hg / +10	-10" Hg / +5
pressure	3	-	15	0.5	0.2
	0	-	10	0.2	0.1
	0	-	15	0.5	0.2
	0	-	30	1	0.5
	0	-	60	2	1
	0	-	100	2	1
	0	-	160	5	2
	0	-	200	5	2
	0	-	300	10	5
	0	-	400	10	5
	0	-	600	20	10
	0	-	800	20	10
	0	-	1000	20	10
	0	-	1000	50	20
	0	-	2000	50	20
	0	-	3000	100	50
	0	-	4000	100	50
	0	-	5000	200	100
	0	-	6000	200	100
	0	-	10000	200	100
	0	-	15000	-	200

¹⁾ pressure ranges according to DIN 16001

Certificates and Approvals

Standards

Our company is certified according to the highest quality standards and our product portfolio meets the highest quality demands.We do not only manufacture according to product-specific instrument standards, we also offer versions with special approvals $for application\ areas\ with\ specific\ requirements.\ The\ ARMANO\ Mess technik\ GmbH\ is\ certified\ according\ to\ DIN\ EN\ ISO\ 9001.$



















Standard Pressure Gauges

Comprehensive descriptions of available options and special versions for all models can be found in the respective data sheets. The latest versions of the documents are available for download on our website www.armano-messtechnik.com.



R	Ch / RChG ¹⁾		
Case / ring	bayonet ring case stainless steel		
Case filling	without/with		
Accuracy	class 1.0		
Nominal size	100, 160, 250 mm		
Wetted parts	-1 brass -3 stainless steel 316L -6 Monel		
Pressure ranges	0 - 0.6 bar to 0 - 1600 bar		
Data sheet	1201		



RChg / RChgG ¹⁾					
Case / ring	crimped-on ring case stainless steel				
Case filling	without/with				
Accuracy	class 1.0				
Nominal size	100, 125, 160 mm				
Wetted parts	- 1 brass - 3 stainless steel 316L - 6 Monel				
Pressure ranges	0 - 0.6 bar to 0 - 1600 bar				
Data sheet	1202				



	€B)		
	RChg 80 RChgG 80		
Case / ring	crimped-on ring case stainless steel		
Case filling	without/with		
Accuracy	class 1.6 class 2.5 (at 0 - 600 bar and 0 - 1000 bar)		
Nominal size	80 mm		
Wetted parts	-1 brass -3 stainless steel 316L		
Pressure ranges	0 - 0.6 bar to 0 - 1000 bar		
Data sheet	1203		



		h 63 ¹⁾ G 63 ¹⁾	
Case / ring	bayonet ring case stainless steel		
Case filling	without/with		
Accuracy	class 1.6 class 2.5 (at 0 - 600 bar and 0 - 1000 bar)		
Nominal size	63 n	nm	
Wetted parts	-1 -3 -6	stainless steel 316L	
Pressure ranges	0 – 0.6 bar to 0 – 1000 bar		
Data sheet	121	1	

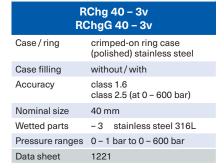


RChg 63 ¹⁾ RChgG 63 ¹⁾		
Case/ring		ped-on ring case shed) stainless steel
Case filling	with	out/with
Accuracy		ss 1.6 ss 2.5 (at 0 – 600 bar and 0 – 1000 bar)
Nominal size	63 m	nm
Wetted parts	-	brass stainless steel 316L Monel
Pressure ranges	0 - 0	0.6 bar to 0 – 1000 bar
Data sheet	1212	2

^{1) – 3}v welded construction type available

Standard Pressure Gauges







RChg 50 – 3v RChgG 50 – 3v		
Case / ring	crimped-on ring case (polished) stainless steel	
Case filling	without/with	
Accuracy	class 1.6 class 2.5 (at 0 – 600 bar)	
Nominal size	50 mm	
Wetted parts	-3 stainless steel 316L	
Pressure ranges	0 - 1 bar to 0 - 600 bar	
Data sheet	1231	



RChg 50 - 3 RChgG 50 - 3		
Case / ring	crimped-on ring case (polished) stainless steel	
Case filling	without/with	
Accuracy	class 1.6 class 2.5 (at 0 – 600 bar)	
Nominal size	50 mm	
Wetted parts	- 3 stainless steel 316L	
Pressure ranges	0 - 1 bar to 0 - 600 bar	
Data sheet	1232	

Safety Pressure Gauges



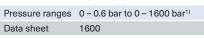


Safety Version

RSCh/RSChG Case/ring bayonet ring case

	stainless steel
Case filling	without/with
Accuracy	class 1.0
Nominal size	100, 160 mm

	brass	
		stainless steel 316L Monel





Safety Version

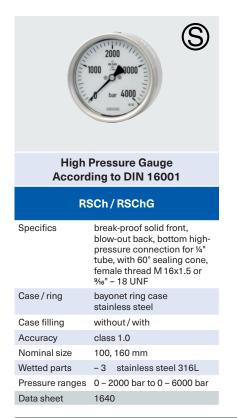
RSChg 160 - 3v RSChgG 160 - 3v

Case / ring	crimped-on ring case stainless steel
Case filling	without/with
Accuracy	class 1.0

Nominal	size	160	mm

Wetted parts -3 stainless steel 316L

Pressure ranges 0 - 0.6 bar to 0 - 1600 bar¹⁾ Data sheet 1602



¹⁾ pressure ranges > 1600 bar according to DIN 16001 (see data sheet 1640)

Special Pressure Gauges



Square Gauge

	RQS	
Specifics	square case front narrow rim for the installation into switch panels and control panels	
Case / ring	square case galvanised steel black	
Case filling	without/with	
Accuracy	class 1.0	
Nominal size	96, 144 mm	
Wetted parts	1 brass3 stainless steel 316L	
Pressure ranges	0 - 0.6 bar to 0 - 1000 bar	
Data sheet	1500	



Caisson Gauge

RCaiCh 160		
Specifics	holding chain stainless steel, adjustable pointer, 2 bottom vents	
Case/ring	bayonet ring case stainless steel	
Case filling	without	
Accuracy	class 1.0	
Nominal size	160 mm	
Wetted parts	- 1 brass	
Pressure ranges	0 - 0.6 bar to 0 - 16 bar	
Data sheet	1800	



Process Gauge

RPG / RPGG 4½"		
Specifics	break-proof solid front, blow-out back, integrated rear flange US Standard Process Gauge	
Case / ring	plastic screw ring PBTP (thermoplastic)	
Case filling	without/with	
Accuracy	Grade 2A according to ASME B40.1 (0.5 %)	
Nominal size	41/2"	
Wetted parts	- 3 stainless steel 316L- 6 Monel	
Pressure ranges	0 - 0.6 bar to 0 - 1000 bar	
Data sheet	1401	



Subsea Gauge

	ChG 100 - 3 ChG 160 - 3
Specifics	IP68, application to a water depth of 3000 m (10000 ft) dial aluminum black, scale white
Case / ring	bayonet ring case stainless steel
Case filling	with
Accuracy	class 1.0
Nominal size	100, 160 mm
Wetted parts	- 3 stainless steel 316L
Pressure ranges	0 - 0.6 bar to 0 - 1600 bar
Data shoot	1010

Special Pressure Gauges



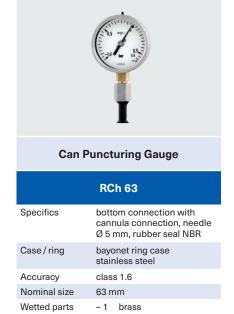
Ultrapure Gas Pressure Gauge with ECD Quality

	RCh 63
Specifics	connection ¼" NPT or VCR-F, VCR-M or VCR-M compact, for VCR connection increased surface finish in the inlet port, R_a 0.2 – 0.4 μm
Case / ring	bayonet ring case stainless steel
Accuracy	class 1.6
Nominal size	63 mm
Wetted parts	- 3 stainless steel 316L
Pressure ranges	0 - 0.6 bar to 0 - 250 bar
Data sheet	1211



Ultrapure Gas Pressure Gauge with ECD Quality and Safety Version

	RSCh 63	
Specifics	connection ¼" NPT or VCR-F, VCR-M or VCR-M compact, for VCR connection increased surface finish in the inlet port, R_a 0.2 – 0.4 μm	
Case / ring	bayonet ring case stainless steel	
Accuracy	class 1.6	
Nominal size	63 mm	
Wetted parts	- 3 stainless steel 316L	
Pressure ranges	0 - 0.6 bar to 0 - 250 bar	
Data sheet	1610	



Pressure ranges -1 / 0, -1 / 0.6, -1 / 1.5 bar

1211, T01-000-022

Data sheet

Special Pressure Gauges



Combi Gauges for Rail Cars

Rg...Fz/RChg...Fz

Specifics combi gauge according to DIN 38030:2022-10 with u-clamps for panel mounting and with direct and indirect lighting as combi gauges

Case / ring crimped-on ring case galvanised or stainless steel crimped-on ring aluminum black anodised

class 1.6 (NCS 60) Accuracy class 1.0 (NCS 80, 100)

60, 80, 100 mm Nominal size

Wetted parts -1 brass Pressure ranges 0 - 6, 0 - 10, 0 - 12 bar

Data sheet 1901



Combi Gauges for Rail Cars

RChg 125 - 1 Fz

Specifics combi gauge according to DIN 38030:2022-10 with u-clamps for panel mounting and with direct and indirect lighting as combi gauges special nominal size 125

crimped-on ring case Case/ring stainless steel crimped-on ring aluminum black anodised

Accuracy class 1.0

Nominal size

Wetted parts -1 brass Pressure ranges 0 - 6, 0 - 10, 0 - 12 bar Data sheet 1901.1

125 mm



SF₆ Gas Density Monitor

RChg/RChgOe/RChgN 100 - 3 SF6

g,g	
Case / ring	crimped-on ring case stainless steel
Case filling	RChg – without RChgOe – special oil RChgN – nitrogen
Accuracy	class 1.0 at +20 °C (NCS 100) class 2.5 at -20 / +60 °C
Nominal size	100 mm
Wetted parts	-3 stainless steel 316L
Pressure ranges	e.g0.1 / +0.9 MPa

1902

Data sheet



SF₆ Gas Density Monitor

RChgN 63 - 3 SF6

Case / ring	crimped-on ring case stainless steel	
Case filling	RChgN - nitrogen	
Accuracy	class 1.0 at +20 °C class 2.5 at -20 / +60 °C	
Nominal size	63 mm	
Wetted parts	-3 stainless steel 316L gas-shielded arc welding, leakage rate < 10 ⁻⁹ mbar l/s	
Pressure ranges	spans 2.5 to 16 bar gauge or absolute pressure	
Industry Prophyro SE6		



SF₆ Gas Density Indicator

RChg 63 - 3 r SF6

Case / ring	crimped-on ring case stainless steel
Case filling	RChg – without
Accuracy	class 1.0 at +20 °C class 2.5 at -20 / +60 °C
Nominal size	63 mm
Wetted parts	 3 stainless steel 316L gas-shielded arc welding, leakage rate < 10⁻⁹ mbar l/s
Pressure ranges	spans 1.6 to 16 bar gauge or absolute pressure
Industry Brochure	SF6

Low Cost Pressure Gauges



	RE 40 – 1 RE 50 – 1
Case / ring	steel case black
Window	snap-in polycarbonate
Accuracy	class 1.6
Nominal size	40, 50 mm
Wetted parts	-1 brass
Pressure ranges	0 - 1 bar to 0 - 400 bar
Data sheet	1132



	RE 63 – 1
Case / ring	steel case black
Window	snap-in polycarbonate
Accuracy	class 1.6 class 2.5 (at 600 bar)
Nominal size	63 mm
Wetted parts	-1 brass
Pressure ranges	0 - 0.6 bar to 0 - 600 bar
Data sheet	1110

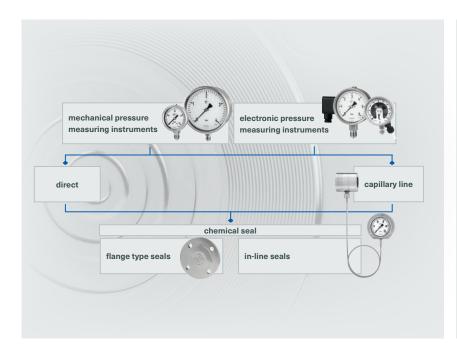


	RE 100 – 1
Case/ring	steel case black
Window	snap-in polycarbonate
Accuracy	class 1.6
Nominal size	100 mm
Wetted parts	-1 brass
Pressure ranges	0 - 0.6 bar to 0 - 600 bar
Data sheet	1120

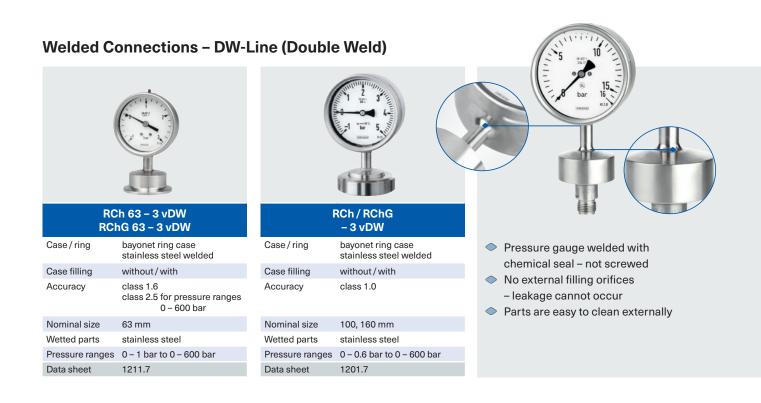


Chemical Seal Mounting

Chemical seals extend the fields of application of measuring instruments for pressure, vacuum, compound ranges, and absolute pressure, i.e. Bourdon tube pressure gauges, pressure transmitters and others. Here, pressure ranges of just a few mbar up to 1000 bar and higher can be realised. Chemical seals can be mounted directly, or via cooling element/capillary line between chemical seal and measuring instrument.



Basically, chemical seals consist of a body with process connection and a diaphragm as separating element, which prevents the medium from entering the measuring unit. Especially for media that are toxic and environmentally damaging, or if the corrosion resistance of the wetted parts has to be guaranteed, the application of chemical seals is inevitable. Chemical seals are also used if processes and regulations set particularly high hygienic standards, e.g. in food, bio and pharmaceutical industries (free of medium wetted dead spaces). For some process connections, certifications according to 3-A and / or EHEDG are available.



Additional Electrical Accessories

Additional electrical accessories can be integrated in Bourdon tube pressure gauges. Limit switch contact assemblies close or open electric or pneumatic circuits. With the adjustable pointer and the key, the limit setting pointers can be adjusted to the required value on the entire range of the scale. When exceeding or falling below the adjusted reference value, the actual value pointer triggers the switch.



With Limit Switch

RCh/RChOe

Case / ring	bayonet ring case stainless steel		
Nominal size	100, 160 mm		
Additional electrical accessory type	low-action contact magnetic contact electronic contact inductive contact pneumatic contact	S M E I P	
Degree of protection	IP54 IP65 (model RChOe)		
Data sheet	1201.90		



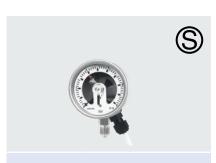
With Limit Switch

RSCh / RSChOe		
Specifics	safety version	
Case / ring	bayonet ring case stainless steel	
Nominal size	100, 160 mm	
Additional electrical accessory type	low-action contact magnetic contact electronic contact inductive contact pneumatic contact	S M E I P
Degree of protection	IP54 IP65 (model RSChOe)	
Data sheet	1600.90	



With Limit Switch

	RQS		
Specifics	square case		
Case/ring	front narrow rim steel black		
Nominal size	96, 144 mm		
Additional electrical accessory type	low-action contact magnetic contact electronic contact inductive contact pneumatic contact	S M E I P	
Degree of protection	-		
Data sheet	1500.90		



With Magnetic Contact

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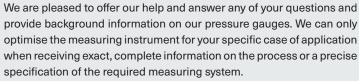
With Inductive / Electronic Contact

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	RSCh 63	
Specifics	safety version	
Case / ring	bayonet ring case stainless steel	
Nominal size	63 mm	
Additional electrical accessory type	electronic contact inductive contact	E I
Degree of protection	IP54	
Data sheet	1610.92	



	RSCh 63	
Specifics	safety version	
Case/ring	bayonet ring case stainless steel	
Nominal size	63 mm	
Additional electrical accessory type	reed contact	R
Degree of protection	IP54	
Data sheet	1610.94	
Data sheet	1610.94	

Enquiries and Orders

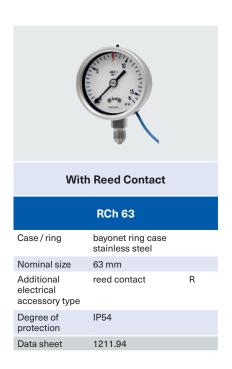


We have prepared checklists for you to help you with the specification of your instruments.

PDF versions as fillable document and for printing can be found at www.armano-messtechnik.com (Downloads / Checklists).















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