



- **BAYONET HOUSING FOR CHEMICAL APPLICATIONS
63, 100, 160 MM**
- **WITHOUT OR WITH GLYCERINE FILLING**
- **INSTALLATION OF ELECTRICAL
CONTACT DEVICES**
- **INSTALLATION OF DIAPHRAGM SEALS
FOR SPECIAL MEASURING TASKS**

DESCRIPTION

The tube spring manometers for chemical applications can be used for almost any medium and under any operating conditions. They fulfil the high quality requirements for almost any industrial use as a result of their high capacity, long service life and high mechanical quality. The devices are used for measuring gaseous and liquid media in ranges from 0 / 0.6 bar and 0 / 1000 bar.

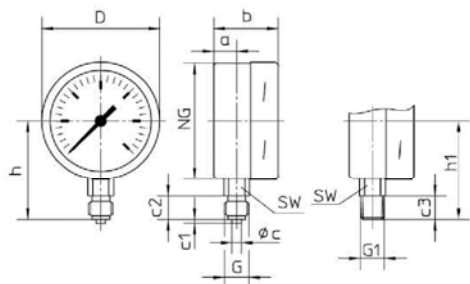
At measuring points under high dynamic load, e.g. rapid load changes or shocks, manometers with a shock-absorbing liquid filling must be used. Diaphragm seals with a flush-mounted membrane can be used for highly viscous media, sanitary applications, etc. The installation of additional devices such as measuring transducers and electrical contact devices is possible (see corresponding data sheets).

TECHNICAL DATA

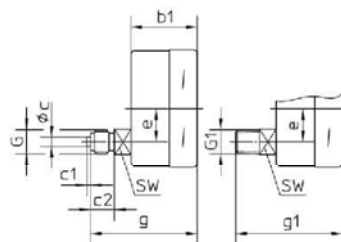
Nominal size	63, 100 and 160 mm
Housing	bayonet housing for chemical applications 63, 100, 160 mm, with bayonet ring seal made from , material number 1.4301, ventilated
Pressure connection	NG 63 mm: G 1/4 B acc. to EN 837-1 NG 100 / 160 mm: G 1/2 B acc. to EN 837-1 material: Standard version made from Cr Ni St, 1.4571 radial or off-centre rear connection (please indicate when ordering)
Measuring system	up to 40 bar with circular stainless steel measuring spring, material number 1.4571 from 60 bar onwards with screw-type stainless steel measuring spring, material number 1.4571, hard-soldered
Indicators	niro, wear-and-tear- and corrosion-resistant
Indicators	black aluminium
Dial	white aluminium with black label
Front pane	laminated safety glass, Makralon a.A.
Measuring range according to EN 837-1	0...600 mbar to 0...1000 bar, vacuum and mano-vacuum measuring ranges
Quality class EN 837-1	for NG 63 mm: Class 1.6 for NG 100 / 160 mm: Class 1.0, from 600 bar Class 2.5
Environmental temperature	-25...0...+ 60°C
Medium temperature	+ 60°C (soft solder), + 100°C (hard solder on request)
Capacity according to EN 837-1	for static load: 75% of maximum scale value for alternating load 30 - 65% of maximum scale value
Protection type EN 60529	IP 65 = filled devices, IP 54 = unfilled devices
Measuring system attenuator	glycerine filling (for vibration, avoids formation of condensation water)
Attachment	free-standing, with front ring for table-top installation or with a rear attachment edge for wall installation
Overpressure safeguard	1.3 times standard, 2 times optional
Additional devices	glycerine filling, adjustable indicator, drag indicator, limit contacts, safety version, measuring transducer diaphragm seals of various designs (see data sheets)

Tube spring manometer EN 837-1, 63/100/160 mm
Version for chemical applications - Type RC...-

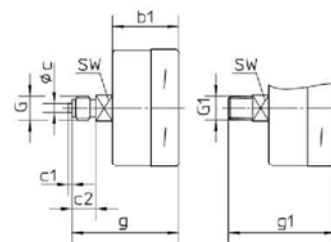
Bottom connection



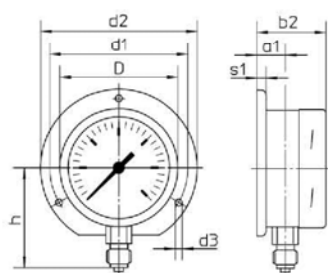
Rear off-centre connection
Reference letter: r



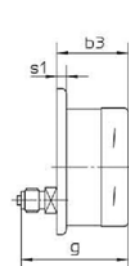
Rear centre connection
Reference letter: rm



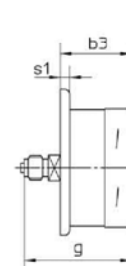
Bottom connection
Rear edge
Reference letter: Rh



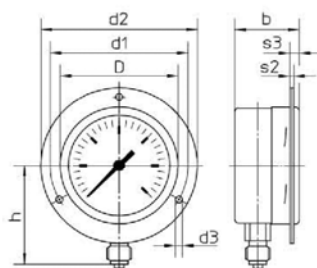
Rear off-centre connection
Rear edge
Reference letter: rRh



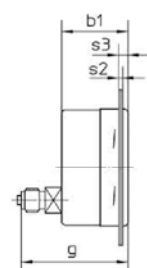
Rear centre connection
Rear edge
Reference letter: rmRh



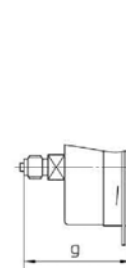
Bottom connection
Front ring
Reference letter: Fr



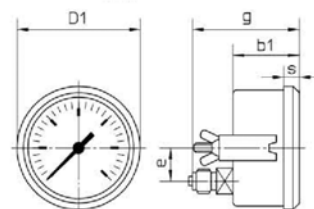
Rear off-centre connection
Front ring
Reference letter: rFr



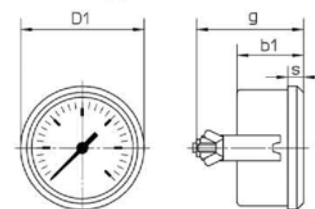
Rear centre connection
Frontring
Reference letter: rmFr



Rear off-centre connection
Front ring with bracket
Reference letter: rBfr



Rear centre connection
Frontring with bracket
Reference letter: rmBfr



Dimensions (mm) and mass (kg)

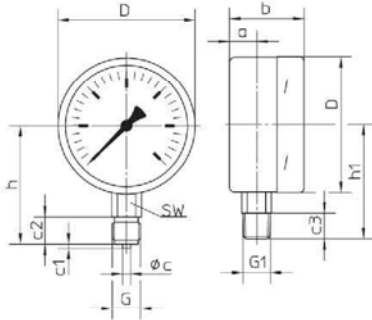
Nominal size NG	a	a1	b	b1	b2	b3	c	c1	c2	c3	D	D1	d1	d2	d3
63	12,5	15,5	35	36	37,5	38,5	5	2	13	13	64	67	75	85	3,7

e	G	G1	g	g1	h ± 1	h1 ± 1	s	s1	s2	s3	SW	Mass (approx.) RCh	RChG
18	G 1/4 B	1/4" NPT	58	58	54	54	8,5	5	2	5	14	0,180	0,250

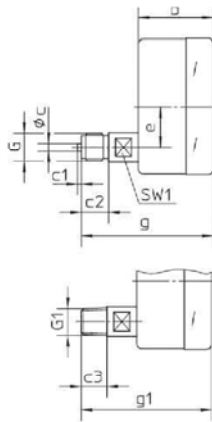
Tube spring manometer EN 837-1, 63/100/160 mm
Version for chemical applications - Type RC...-



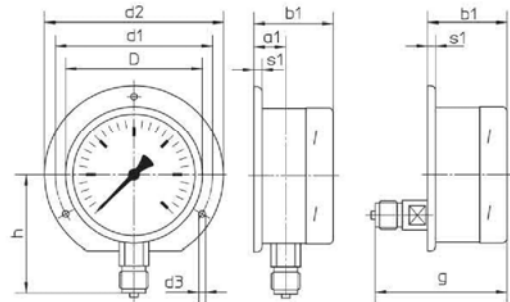
Bottom connection



Rear off-centre connection
Reference letter: r

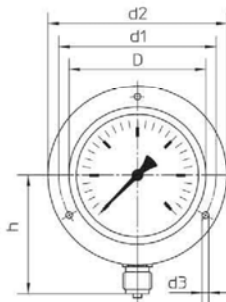


Bottom connection
Rear edge ¹⁾
Reference letter: Rh



Rear connection
Rear edge ²⁾
Reference letter: rRh

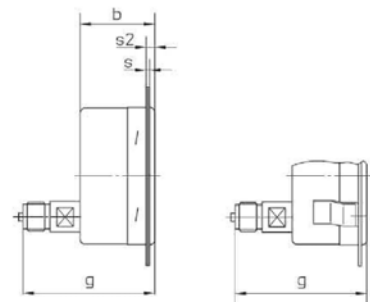
Bottom connection
Front ring ²⁾
Reference letter: Fr



For dry version:
 Fixed front ring with slots
 and loose cover ring.

For filled version:
 With lugs welded to the housing
 and a loose front ring

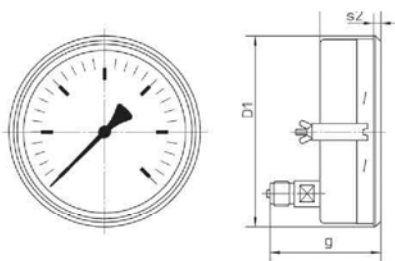
Rear off-centre connection
Front ring ²⁾
Reference letter: rFr



For dry version:
 Fixed front ring with slots
 and loose cover ring.

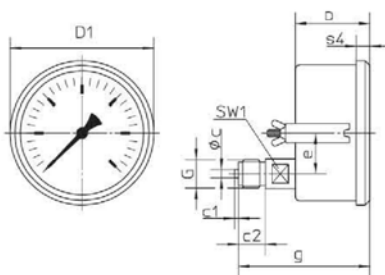
For filled housing:
 With lugs welded to the housing
 and a loose front ring

Only Type RCh 160:
Rear off-centre connection
Front ring with bracket
Reference letter: rBFr



NG 100 only according to Data Sheet 1202:
Rear off-centre connection
Front ring with bracket, flanged ring

(Safety multilayer glass not available)

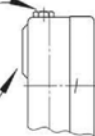


Safety apertures

Blow-out screw connection
 for Type RChG 160

Blow-out Ø 1" (25.4 mm)
 for Types RCh 100, 160, 250

for RChG 100: Ø 40 mm



Dimensions (mm) and mass (kg)

NG	a	a1	b	b1	c	c1	c2	c3	D	D1	d1	d2	d3	e	g	g1
100	20	23,5	55	58,5	6	3	20	19	101	106	116	132	4,8	30	97	96
160	15,5	19	51	54					161	167	178	196	5,8	52	92,5	91,5

NG	G	G1	h	h1	s	s1	s2	s3	s4	SW	SW1	Mass (approx.)	
												RCh	RChG
100	G ½ B ³⁾	½"NPT	87	84	2	6	6	1	10	22	17	0,60	0,95
160			115	114								1,10	1,95

ORDERING INFORMATION (type key)

Basic type / housing size

R	Tube spring manometer
RF	Tube spring manometer - high-accuracy version
... C	Version for chemical application (full stainless steel)
... ST	Bayonet housing CrNi-St, brass connection
... S	Version for chemical applications with safety housing DIN16006/EN 837.1
... .. G	Glycerine filling
... .. OE	Oil filling for limit value transmitter (instead of GL)
... .. 63 mm	Nominal size 63 mm
... .. 100 mm	Nominal size 100 mm
... .. 160 mm	Nominal size 160 mm
... .. U	Bottom connection
... .. R	Rear connection
... .. FR	Front ring
... .. BFR	Front ring with bracket
... .. HBR	Rear attachment edge
... ..	Measuring ranges / add-ons / limit values / diaphragm seal / special features (please state in plain text or add code)

Ordering code - Example:

RCG100/U/6 bar/ ...
(Tube spring manometer in version for chemical applications, 100 mm, glycerine-filled, bottom connection, 0-6 bar, (additions, if necessary, e.g. diaphragm seal ...)

Our products are constantly in further development, therefore subjects to modifications.