

Spring-capsule manometer EN 837-3, Class 1,6 Chemistry version - Type KC... -



- NG 100 AND 160 MM
- BAYONET RING HOUSING FOR CHEMICAL APPLICATIONS
- SPECIAL VERSIONS ON REQUEST

DESCRIPTION

Spring-capsule manometers are well suited to measure lower pressures or vacuums within measuring ranges from 2.5 mbar to 600 mbar in air or other gaseous media.

TECHNICAL DATA

Nominal size of housing	100 and 160 mm Bayonet housing for chemical applications made from material number 1.4301, 100 and 160 mm, ventilated
Ring	Bayonet ring made from material number 1.4301
Measuring device	Spring-capsule made from material number 1.4571, optionally from a Cu/Be alloy
Indicators	Niro, wear-and-tear- and corrosion-resistant, optionally made from brass or nickel silver
Dial	White aluminium, black scale
Indicators	Black aluminium
Front pane	Laminated safety glass - for non-Niro version: Instrument glass -
Zero point adjustment	front side
Indication ranges according to EN 837-3	0-2,5 mbar to 0-600 mbar
Quality class EN 837-1	± 1.6% of the maximum scale value according to EN 837-3

Overpressure safeguard	3 times the maximum/minimum pressure optionally 10 times the maximum/minimum pressure
Environmental temperature	-20°C to +60°C
Medium temperature	+100°C max.
Temperature influence	Additional error of 0.6% per 10°C, deviating from the 20°C reference temperature
Capacity according to EN 837-1	for static load: Maximum scale value for alternating load: 0.9 times the maximum scale value Short-term: 1.3 times the maximum scale value
Pressure connection	bottom, G½ B made from material number 1.4571 optionally centred on rear side
Protection type EN 60529	IP 54
Measuring system attenuator	Glycerine filling on request
Additional devices	Threaded connection M12x1.5, M20 x 1.5, adjustable red indicator Branded indicator, acrylic glass viewing pane, NG63 and 250 mm, higher medium temperatures

ORDERING INFORMATION (type key)

Basic type / housing size

K	Spring-capsule manometer
... C	Version for chemical application (full stainless steel)
... ST	Bayonet housing CrNi-St, brass connection
... .. G	Glycerine filling
... .. 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 / special features (please state in plain text or add code)

Ordering code - Example:

KC100/U/0,4 bar

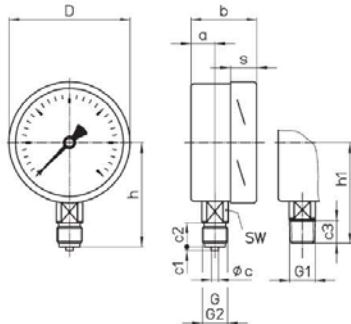
[Spring-capsule manometer for chemical applications, 100 mm, bottom connection, 0.4 bar, ... (if necessary, addition information, e.g. adjustable red indicator)]

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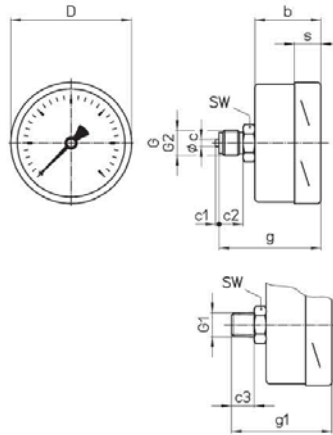


Housing designs, reference letters, dimensions and mass, indication ranges

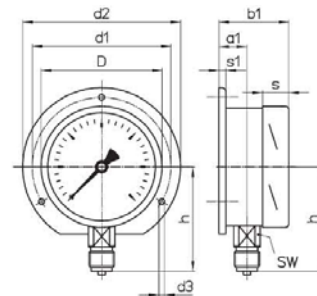
Bottom connection
Reference letter: **u**



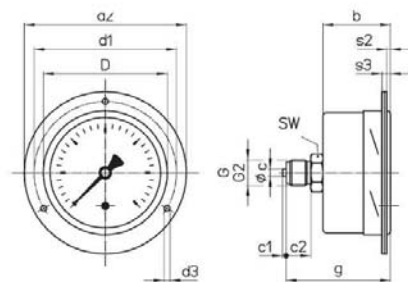
Rear connection
Reference letter: **r**



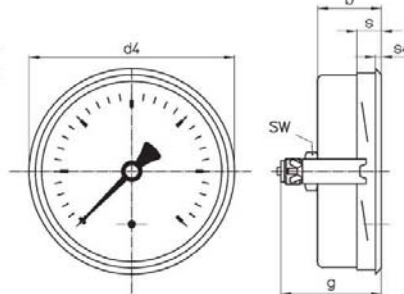
Bottom connection
Rear edge
Reference letter: **HBR**



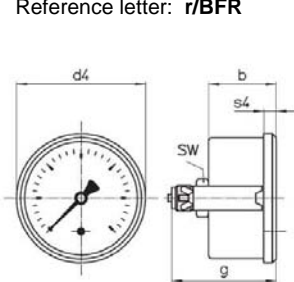
Rear connection,
Front ring
(fixed front ring with slots and loose cover ring)
Reference letter: **R/FR**



NG 160
Rear connection
Reference letter: **r/BFR**



NG 100 as Type KPCG100
with flanged ring housing made of CrNi steel
Rear connection
Front ring with bracket
Reference letter: **r/BFR**



Dimensions (mm) and mass (kg)

NG	a	a1	b	b1	D	c	c1	c2	c3	d1	d2	d3	d4	G	G1	G2	g	g1
100	20	23,5	55	58,5	101	6	3	20	19	116	132	4,8	106	G 1/2 B	1/2"NPT	M 20x1,5	85	84
160	15,5	19	51,5 ³⁾	55 ³⁾	161					178	196	5,8	168				82 ³⁾	81 ³⁾

Display ranges (EN 837-3)

Vacuum meter	Mano vacuum meter	Manometer
in mbar		
- 2,5 / 0	- 1 / + 1,5 - 1,5 / + 1	0 / 2,5
- 4 / 0	- 1,5 / + 2,5 - 2,5 / + 1,5	0 / 4
- 6 / 0	- 2 / + 4 - 4 / + 2	0 / 6
-10 / 0	- 4 / + 6 - 6 / + 4	0 / 10
-16 / 0	- 6 / +10 -10 / + 6	0 / 16
-25 / 0	-10 / +15 -15 / +10	0 / 25
-40 / 0	-15 / +25 -25 / +15	0 / 40
-60 / 0	-20 / +40 -40 / +20	0 / 60

NG	h ±1	h1±1	s	s1	s2	s3	s4	SW	Mass (approx.)
100	87	84	21	6	2	6	10	22	0,50
160	115	114					5		0,90

Vacuum meter	Mano vacuum meter	Manometer
in mbar		
- 100 / 0	- 40 / + 60 - 60 / + 40	0 / 100
- 160 / 0	- 60 / +100 - 100 / + 60	0 / 160
- 250 / 0	- 100 / +150 - 150 / +100	0 / 250
- 400 / 0	- 150 / +250 - 250 / +150	0 / 400
- 600 / 0	- 200 / +400 - 400 / +200	0 / 600

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