

CONTACT PRESSURE GAUGE

diameters 100, 160 mm
bottom, back connection



DESCRIPTION:

- stainless steel case 17 240/1.4301
 - glass inspection hole
- bottom, back connection, CuZn and copper alloys
 - el. connection – cable output DIN 43 650
- measure mechanism CuZn and copper alloys

APPLICATION:

- heating industry
- mechanical engineering
 - compressors
- regulatory stations
 - blowers

TECHNICAL PARAMETERS:

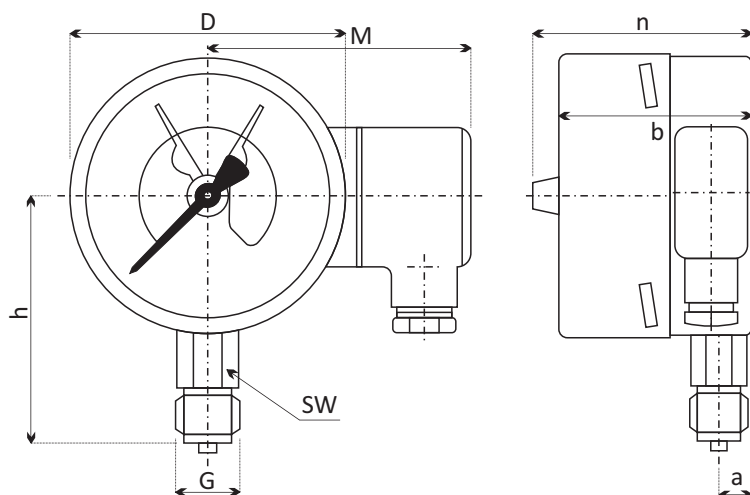
- diameter: 100, 160mm
- measuring ranges: 0-60, 100, 160, 250, 400, 600kPa
 - 0,1+2,4; -0,1+1,5; -0,1+0,9MPa,
 - 100+500; -100+300; -100+150; -100-0kPa
- scale: Pa, bar, individual
- connection threads: M20x1,5 (G1/2)
 - accuracy class: 1,6%, 2,5%
- contact type: switch-on, switch-off, throw-over
- design: pressure gauge, pressure-vacuum indicator, vacuum indicator

SPECIFICATION:

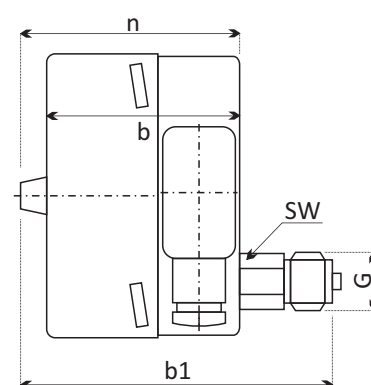
Contact pressure gauges are produced according to standard EN837-1(3). Mainly used for simple pressure measurement of liquids, vapour and gases, that do not have corrosive effect on copper alloys and its viscosity allows for measuring using bourdon pen mechanism, capsule or separating membranes. Pressure gauges with switching contacts (on/off) are used in engineering practice where it is required to work within limited band of pressure span. Easily adjustable contacts using the supplied wrench. Environment temperature -40 up to 60°C, medium temperature T_{max} 80°C. Other design options on request - special scale design, connection threads, contacts, etc. Pressure gauge may be supplied with glycerine or silicone(312KG) damping.

Code	312 K (312 MK)	322 K (322 MK)
Diameter	100mm	
Design	bottom connection	back connection
Accuracy class	1,6 %	
Ranges	0-60kPa...0- 100MPa, vacuum and pressure, 0-4...0-40kPa for 312MK and 322MK	
Highest accuracy	constant pressure - 3/4 from all range ,fluctuating pressure - 2/3 from all range	
Case	stainless steel 17 240/1.4301	
Ring	stainless steel 17 240/1.4301 - bayonet	
Inspection hole	glass	
Scale	white Al sheet with black print according to DIN 16 109	
Needle	black sprayed Al sheet	
Machine basis	CuZn - alloy/ steel	
Spring	Cu - alloy/ steel	
Connection	CuZn -alloy/steel	
Thread	M20x1,5, (G 1/2)	
Medium temper.	T_{max} 60°C	
Environment temp.	T_{min} -40°C, T_{max} 60°C	
Measuring depend. on temperature	0,3%/10K for deviation from normal temperature 20°C	
Weight approx.	0,9kg	

• 312K (312MK) - bottom connection



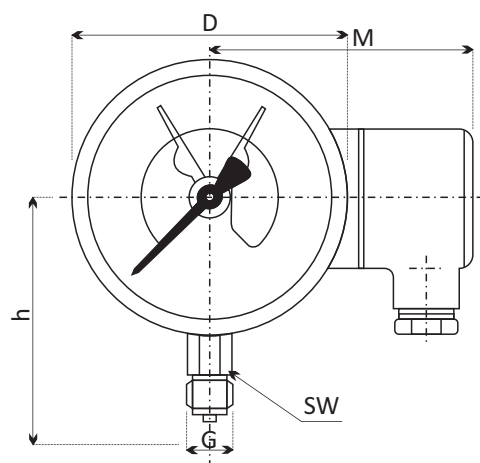
• 322K (322MK) - back connection



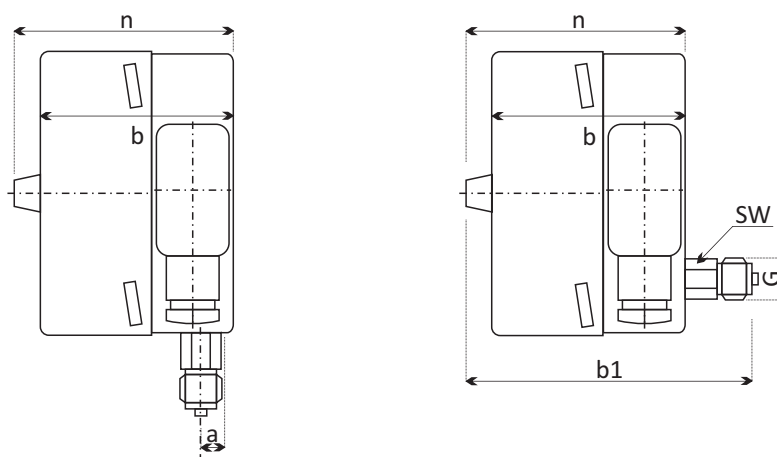
Dimensions in mm										
Type	Nom. size	a	b	b1	D	G	h	M	n	SW
312K	100	15	40	-	100	G 1/2 B	83	92	102	22
322K	100	-	40	124	100	G 1/2 B	-	92	102	22

Code	470 (370; 470M)	396 (396M)
Diameter	160mm	
Design	bottom connection	back connection
Accuracy class	1,6%; 2,5%	
Measuring ranges	0-60kPa...0-160MPa, vacuum and pressure; 0-4...0-40kPa for 470M and 396M	
Highest measur.	constant pressure - 3/4 of the range, fluctuating 2/3 of the range	
Case	stainless steel 17 240/1.4301	
Ring	stainless steel 17 240/1.4301 - bayonet	
Inspection hole	glass	
Dial	white aluminium sheet with black print according to DIN 16 109	
Needle	black sprayed aluminium sheet	
Machine basis	CuZn - alloy/steel	
Spring	Cu - alloy/steel	
Connection	CuZn - alloy/steel	
Thread	M20x1,5 (G1/2)	
Medium temp.	T _{max} 60°C	
Environment temp.	T _{min} -40°C, T _{max} 60°C	
Dependence on temperature	0,3%/10K for deviation from normal temperature 20°C	
Weight approx.	2,25kg	
Contact combination	single 1x minimum or 1x maximum contact, 1x switch-over double design MIN/MIN, MIN/MAX, MAX/MAX, throw-over/throw-over	
Contact design	magnetic non-magnetic/inductive	

• 470 (470M) - bottom connection



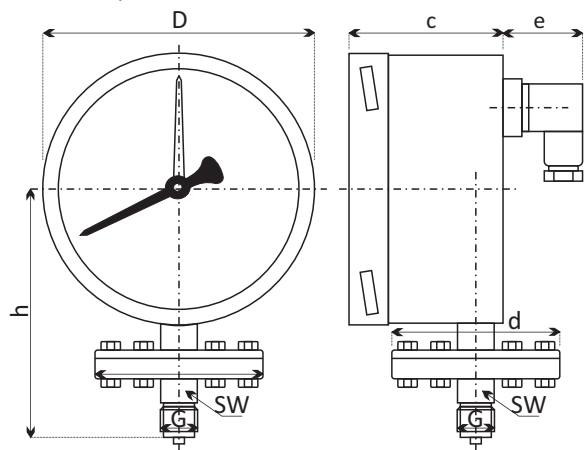
• 396 (396M) - back connection



Type	Dimensions in mm									
	Nom. size	a	b	b1	D	G	h	M	n	SW
470	160	15	90	-	160	G 1/2 B	118	123	102	22
396	160	-	90	110	160	G 1/2 B	-	123	102	22

Code	379K	393
Diameter	100mm	160mm
Design	bottom connection	
Accuracy class	1,6%; 2,5%	
Measuring range	0-60kPa...0-60MPa, vacuum and pressure	
Highest measur.	constant pressure - 3/4 of the range, fluctuating 2/3 of the range	
Membrane type	screwed-together, opened, clamp, for food industry, welded-together	
Membrane material	stainless steel, teflon, teflon-plated	
Case	stainless steel 17 240/1.4301	
Ring	stainless steel 17 240/1.4301 - bayonet	
Inspection hole	glass	
Dial	white aluminium sheet with black print according to DIN 16 109	
Needle	black sprayed aluminium steel	
Machine basis	CuZn - alloy/steel	
Spring	Cu - alloy/steel	
Connection	CuZn - alloy/steel	
Thread	G1/2 (M20x1,5)	
Medium temp.	T _{max} 60°C	
Environment temp.	T _{min} -40°C, T _{max} 60°C	
Temperature dependance	0,3%/10K for deviations from normal temperature 20°C	
Weight approx.	2,2kg	3,1kg
Contact	single 1x minimum or 1x maximum contact, 1x throw-over double design MIN/MIN, MIN/MAX, MAX/MAX, throw-over/throw-over	
Contact design	magnetic non-magnetic/inductive	

• 379K, 393 - bottom connection



Contact wiring diagram:

MIN / contacts:



Electric circuit is on in the black part of the scheme.

When preset temperature is reached the circuit switches off.

MAX / contacts:



Elektric circuit is on in the black part of the scheme.

When preset temperature is reached the circuit switches on.

CONTACTS:

max.voltage 230V

max. load 30W

Dimensions in mm						
Type	Nom. size	D	d	c	h	G
379K	100	100	100	102	135	G1/2 (M20x1,5)
393	160	160	100	91	149	G1/2 (M20x1,5)