



DIFFERENTIAL PRESSURE GAUGE with magnetic piston

2x side connection

DESCRIPTION:

- case: steel, alluminium cast or stainless steel
- inspection hole: acrylate, glass
- connection 2x side, bottom
- measurement mechanism: CuZn, stainless steel
- piston sealing: NBR, EPDM, Viton
- design: with direct entry or with separating membrane

APPLICATION:

- air-conditioning
 - hydraulics
- power engineering
- petrochemical industry
- chemical industry

TECHNICAL PARAMETERS:

- diameter: 63, 80, 100, 115, 150mm
- measure ranges - differential pressure:
0-40kPa, 0-1MPa
- max. static pressure: 10, 25, 40MPa
- connection thread: G1/4 (G1/2, 1/2NPT inner or outer)
- accuracy class: 3% for differential pressure

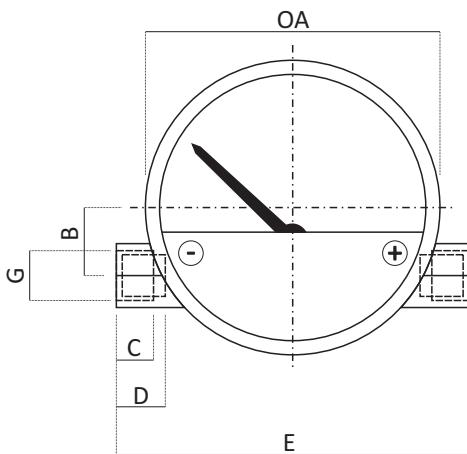
SPECIFICATION:

Differential pressure gauges with magnetic pistons are suitable for all applications with high static pressures. They are produced in compliance with EN 837-3 standard. Differential pressure gauges can be used for measurements of all liquids, gases and vapour that do not have corrosive effect on copper alloys and its viscosity allows for use of measuring mechanism made of stainless steel class 1.4305. For mediums of higher viscosity it is possible to use pressure gauges with separating membranes.

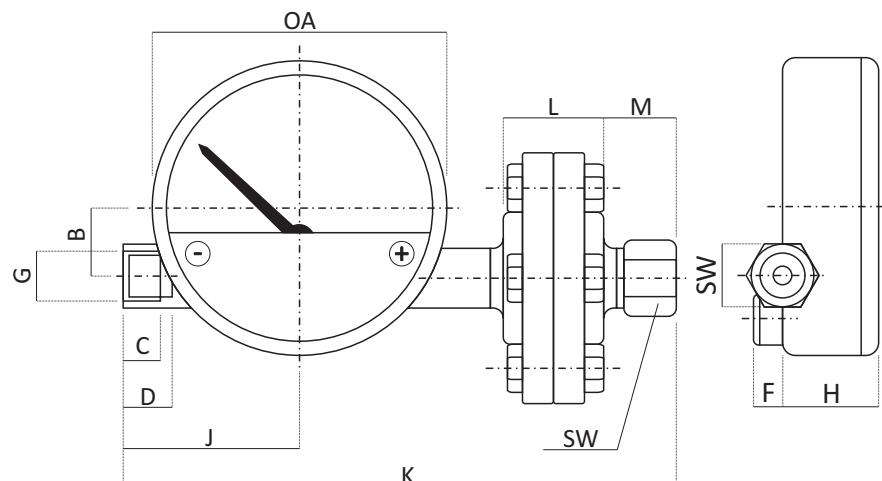
Differential pressure gauges with magnetic pistons may be used in applications for measurements of small pressure differences even in high static pressures. This design finds its application in wide range of operations, pressure gauges may be supplied with piston and spring or with a membrane, in wide range of materials - brass, alluminium, stainless steel. Maximum environment temerature -20 up to 60°C, medium temperature T_{max} 100°C. Dother design options on individual request - with switching contacts, analog output, special scale design, connection threads, etc.

Code	700.01	700.02
Diameter	80mm	
Design	side connection	
Accuracy class	±3%	±5%
Ranges	0-400mbar...0-10bar	0-160mbar...0-2,5bar
Max. pressure	100, 250, 400bar	100bar
Protection	IP 54 (EN 60 529 / IEC 529)	
Case	aluminium, black	
Inspection hole	acrylate, mounted	
Dial	aluminium, white	
Needle	aluminium, black	
Machine basis	stainless steel	
Spring	stainless steel	
Thread	stainless steel, G1/4 (G1/2, 1/2NPT inner or outer)	
Medium temper.	0-60°C	
T _{max} medium	100°C	

• Type 700.01



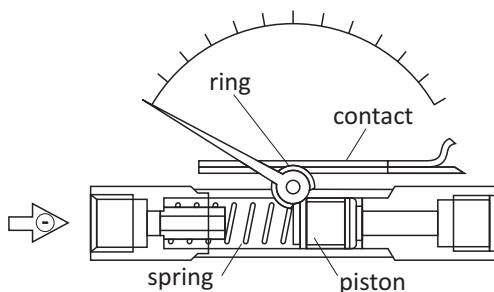
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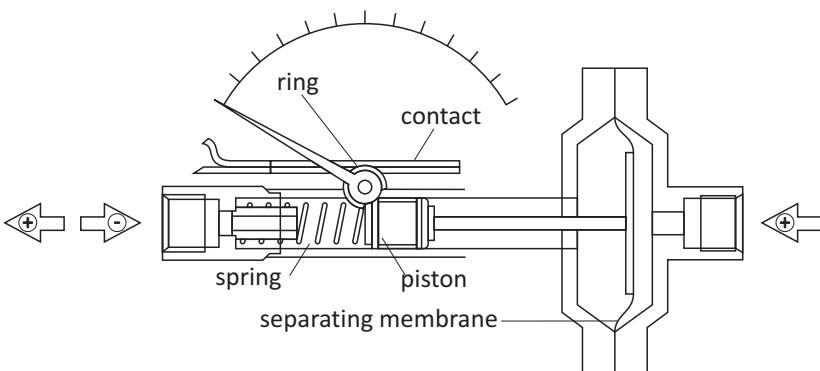
Dimensions in mm

A	B	C	D	E	F	G	H	I	J	K	L	M	SW
79	18,5	9,5	13	94	8	G1/4	25	66	47	146	27	18,5	17

• Type 700.01



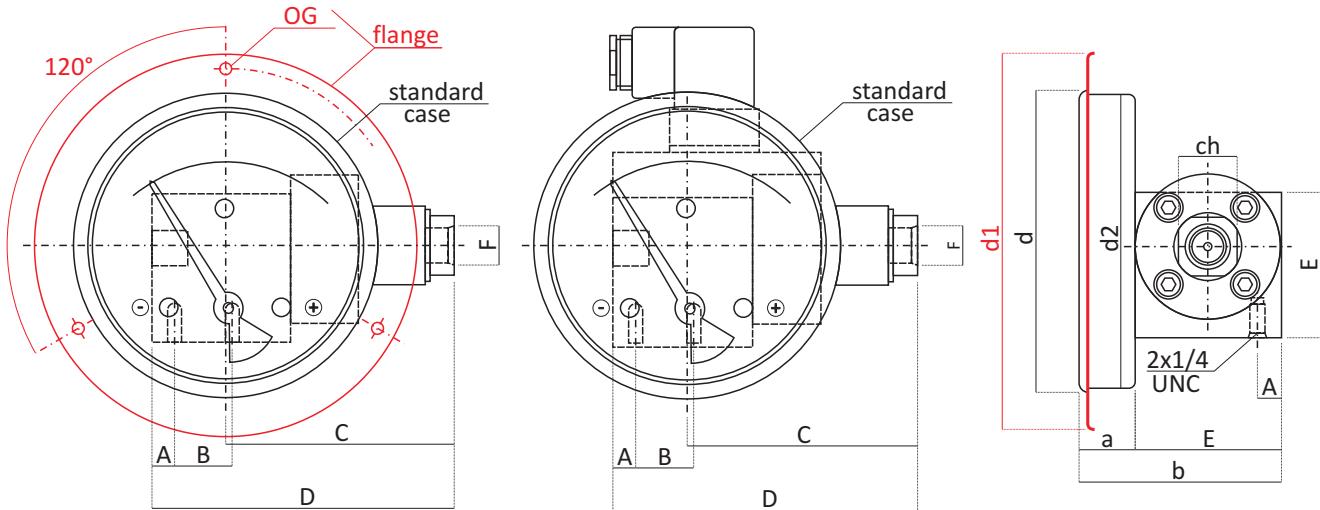
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Type	200DPG	200DGR	300DGC	400DGC	Magnetic
Measuring element	piston with spring	piston+rolling memb.	membrane	membrane	membrane
Measure range	0-25kPa/0-1MPa	0-25kPa/0-700MPa	0-7,5kPa/0-400kPa	0-250Pa/0-6kPa	0-250Pa/0-10kPa
Sealing	negligible flow of medium from pressure to vacuum	without flow	without flow	without flow	plastic body

Contacts	SPST: max 5VA, 150V, 0,5A AC/DC; SPDT: max 10VA, 175V, 0,25A AC/DC
Membrane and piston seals material	NBR, EPDM, Viton
Body material	Al alloy (Ms,stainless steel, structural polymer)
Static pressure	up to 40MPa
Accuracy	2% from range (3% from range)
Body material	Al alloy (alter. Ms, stainless steel 316 Ti, Monel)
Parts in contact w/t medium	spring stainless steel 302, seals or membrane NBR (teflon), ceramic magnet
Contact load	max. 10VA (AC), max. current 5A / 170V, optionally 230V

- Differential piston pressure gauges with contacts HIRLEKAR



	F	a	b	d	d1	d2	ch	p.c.d.	d*	A	B	C	D	E	G
63 (2,5")	1/4"BSP-1/4"NPT	19	69,7	66	93	65	20	83		9					
80 (3,5")	1/4"BSP-1/4"NPT	19	69,7	83	109	82	20	99	83						
100 (4")	1/4"BSP-1/4"NPT	19	69	104,3	131	102	20	121	104,3						
115 (4,5")	1/4"BSP-1/4"NPT	19	69,7	119,7	146	117	20	136	119,7						
150 (6")	1/4"BSP-1/4"NPT	19	69,7	154,3	181	152,5	20	171	154,3						

