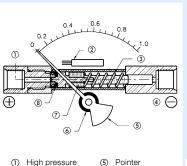
Magnetic piston pressure gauge for differential pressure - high overload protection



- Extremely compact and robust stainless steel measuring system
- Max. static pressure PN 100, 250, 400
- Leak-proof due to mechanical separation of pressure chamber and display
- Various types of connections
- Easy retrofitting of electrical contacts without intervention in the measuring system



- 1) High pressure Reed switch
 - - 6 Ring magnet Magnetic piston
- Measuring spring

Application For differential pressure measurements at very high static pressures. For gaseous and liquid, non-adhesive media that are not highly viscous. Particularly suitable for monitoring filters, pumps, pipe systems and cooling circuits.

Description The pressures act on two pressure chambers separated by a magnetic piston. If there are different pressures in the chambers, the magnetic piston is axially displaced against a compression spring. The magnetic piston transmits this displacement to the pointer by means of a ring magnet mounted to the pointer hub. The differential pressure is directly indicated. The complete mechanical separation of pressure chamber and display excludes the possibility of leaks.

Technical Type specifications MAG 80/100 Dif D312

Nominal size

80-100 mm

Accuracy

±3 % of full scale value (at increasing differential pressure)

Ranges (EN 837-3/5)

0/0.25 bar to 0/10 bar

Standard version Connection (wetted part)

Stainless steel 316, on left and right sides, opposite each other 2 x G1/4 female thread spanner size SW 17 (EN 837-3/7.3)

Connection cover

Plastic, glass-fibre reinforced, black

Measuring element (wetted part)

Compression spring Stainless steel 301

Magnetic piston (wetted part)

Stainless steel 316/strontium ferrite

Seal (wetted part)

NBR (Perbunan)

Dial

Aluminium, white Dial marking black/red (bar/psi) Scale angle 90°

Pointer

Aluminium, black

Housing

Stainless steel 304 with rubber sealing ring at the front

Maximum static pressure

100 bar

Overpressure safety

Up to the maximum static pressure at both sides

Operating temperature range

Medium: $T_{max} = 80 \, ^{\circ}C$ Ambient: 0°C $T_{max} = 80 \, ^{\circ}C$

Degree of protection

IP 65 (EN 60529)

Window

Instrument glass

Mounting

Wall mounting via mounting plate (option) or pipe mounting by means of mounting plate and fixing clamp (option) for 2" pipe

Options

- Mounting plate with fixing clamp
- 3-hole fixing, panel mounting bezel
- Max. static pressure PN 250/400
- Other connection threads
- Other connection designs
- Window acrylic glass
- Electrical contacts (Reed contacts)
- Filter in "plus" connection
- Glycerine filling
- Max. pointer
- Special scales



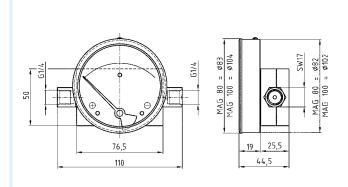


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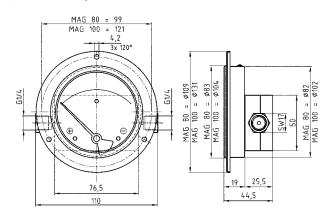
Type D 3 NG 80/100

Types and dimensions (mm)

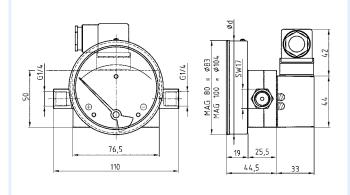
Connection on right and left sides



Connection on right and left sides 3-hole fixing, panel mounting bezel

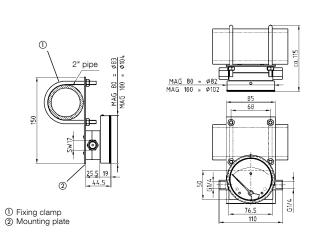


Connection on right and left sides With electrical contact



Mounting plate and fixing clamp

Wiring diagram



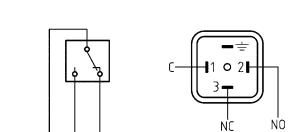
Technical specifications electrical contact

Version: Reed contact, single, changeover contact (SPDT)

AC/DC 30 V Max. switching voltage: AC 3 VA -- DC 3 W Max. switch rating: Max. current: AC/DC 300 mA Switching hysteresis: approx. 5 %

20-80 % of full scale value Adjustment range:

Electrical connection: ISO 4400 connector (DIN 43650-A)



Magnetic piston pressure gauges/magnetic diaphragm pressure gauges for differential pressure

DG: M, PG: 3

Туре	MAG 80 Dif, D 312	MAG 100 Dif, D 312	MAG 80 Dif, RK1.W, D 312	MAG 100 Dif, RK1.W, D 312	MAG 115 Dif, D 311	MAG 115 Dif, RK1.W, D 311
Version						
Housing Ø	80	100	80	100	115	115
Housing	Stainless steel 304 with rubber sealing ring at the front					
Measuring element	See data sheet					
Accuracy	±3 % of full scale value (at increasing differential pressure)					
Connection	2 x G¼ female thread 2 x ½ NPT female thread					
Max. static pressure	100 bar				2.4 bar	
Contact type			Reed, single, changeover contact*	Reed, single, changeover contact*		Reed, single, changeover contact*
Electrical connection			Connector and junction box as per ISO 4400 (DIN 43650-A)	Connector and junction box as per ISO 4400 (DIN 43650-A)		Connector and junction box as per ISO 4400 (DIN 43650-A)
Range	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
Price €						
0/2.5 mbar					88002311	88013311
0/4 mbar					88003311	88014311
0/6 mbar					88004311	88015311
0/10 mbar					88005311	88016311
0/16 mbar					88006311	88017311
0/25 mbar					88007311	88018311
0/40 mbar					88008311	88019311
0/60 mbar					88009311	88020311
0/100 mbar					88010311	88021311
0/160 mbar						
Price €						
0/0.25 bar	88002312	88013312	88022312	88033312		
0/0.4 bar	88003312	88014312	88023312	88034312		
0/0.6 bar	88004312	88015312	88024312	88035312		
0/1 bar	88005312	88016312	88025312	88036312		
0/1.6 bar	88006312	88017312	88026312	88037312		
0/2.5 bar	88007312	88018312	88027312	88038312		
0/4 bar	88008312	88019312	88028312	88039312		
0/6 bar	88009312	88020312	88029312	88040312		
0/10 bar	88010312	88021312	88030312	88041312		
0, 10 Dai	00010012	00021012	00000012	000+1012	==	==

^{*} Please specify required switching point!

Blue part no. = in-stock items



Please enquire for prices for magnetic piston pressure gauges.

