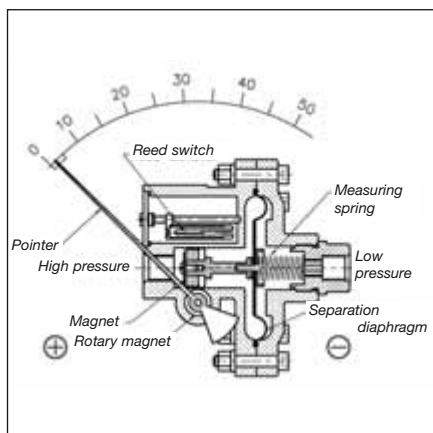


# Magnetic diaphragm pressure gauges for very low differential pressure



- Differential pressure ranges starting at 0/2.5 mbar
- Switching contacts can be retrofitted
- IP 65 protection for pressure gauge and switching contact
- Side or back connection
- Delivery includes adapter for hose connection and bracket for control panel mounting



## Application

For differential pressure measurements with very low differential pressure. Especially suitable for gaseous media but in particular for monitoring filters and fans in air supply, air conditioning and ultra-clean room applications.

## Type

MAG 115 Dif D311

## Nominal size

115 mm

## Function

The pressures act on two pressure chambers separated by a diaphragm. If there are different pressures in the chambers, a magnet is axially displaced against a pressure spring. This displacement is transmitted to the pointer via a rotary magnet fitted to the pointer hub. The differential pressure is directly displayed.

## Accuracy of measurement

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

## Ranges (EN 837-3/5)

0/2.5 mbar to 0/100 mbar

## Maximum static pressure

2.4 bar

## Overpressure safety

up to 2.4 bar on both sides

## Operating temperature range

Medium:  $T_{max} = 60\text{ °C}$

Ambient:  $T_{min} = 0\text{ °C}$

$T_{max} = 60\text{ °C}$

## Protection

IP 65 (EN 60529)

## Standard version

### Connection (wetted parts)

Nylon 66, glass-fibre reinforced, choice of left and right hand side, or back (use enclosed blind plugs) 2 x 1/8 NPT female thread or 2 x hose connection 5 mm (use enclosed adaptors)

### Measuring element (wetted part)

Diaphragm: NBR

Pressure spring: stainless steel 301

Transmission unit:

Stainless steel 301

### Magnet (wetted part)

Strontium-ferrite

## Seal (wetted part)

NBR

## Dial

Aluminium, white

Dial marking black

Scale angle 90° (first graduation after zero at 15% of full scale value)

## Pointer

Aluminium, black

## Housing

Stainless steel 304 with rubber sealing ring at the front

## Front glass

Instrument glass

## Mounting

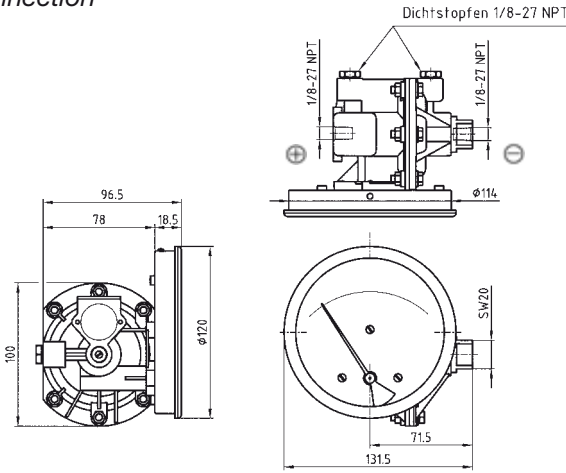
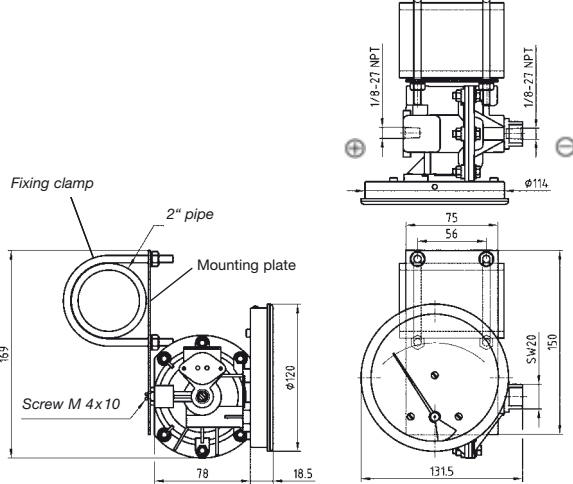
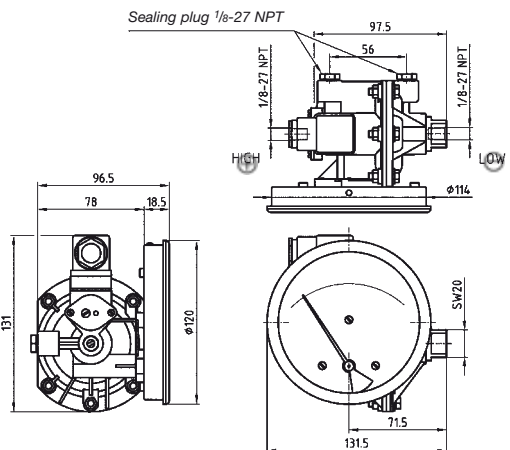
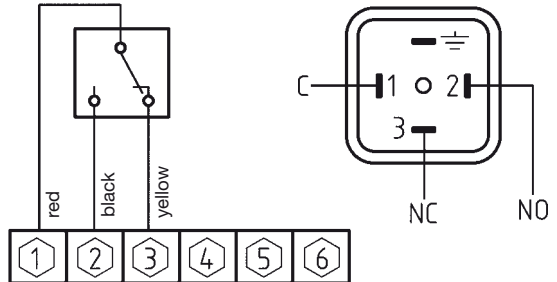
Panel mounting via mounting clips (standard), or wall mounting via back mounting plate (optional) or pipe mounting via a combination of back mounting plate and fixing clamp (optional) for 2" pipe

## Options

- Back mounting plate with fixing clamp
- Acrylic front glass
- Electrical contacts (Reed contacts)
- Special scales

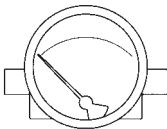
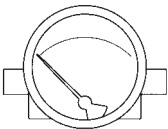
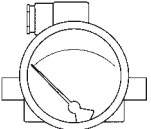
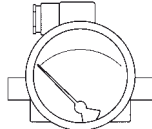
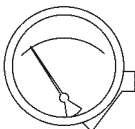
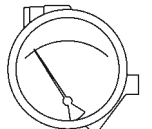
# Magnetic diaphragm pressure gauges for very low differential pressure *Type D 3 NG 115*

**Types and dimensions (mm)**

<p>Connection on left and right hand side or back connection</p> 	<p>Back mounting plate and fixing clamp</p> 
<p>Connection on left and right hand side or back connection with electrical contact</p> 	<p>Wiring diagram</p> 
<p>Technical specifications electrical contact</p> <p>Version: Reed contact, single pole changeover (SPDT)</p> <p>Max. switching voltage: AC/DC 175 V          Max. switch rating: AC 5 VA – DC 5 W          Max. current: AC/DC 250 mA          Switching hysteresis: approx. 5 %          Adjustment range: 40-80 % of full scale value          Electrical connection: plug DIN 43650-A</p>	

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

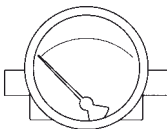
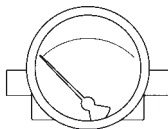
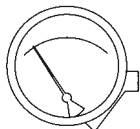
DG: M

Type	MAG 80 Dif, D312	MAG 100 Dif, D312	MAG 80 Dif, RK1.W, D312	MAG 100 Dif, RK1.W, D312	MAG 115 Dif, D311	MAG 115 Dif, RK1.W, D311
Version						
Housing Ø	80	100	80	100	115	115
Housing	Stainless steel 304 with rubber seal at the front					
Meas. elem	refer to data sheet					
Accuracy	±3 % of full scale value (at increasing differential pressure)					
Connection	2 x G <sup>1</sup> / <sub>4</sub> female thread				2 x <sup>1</sup> / <sub>8</sub> NPT female thread	
Max. static pressure	PN 100				PN 2,4	
Contact type	---	---	Reed, single, changeover*	Reed, single, changeover*	---	Reed, single, changeover*
Electrical connection	---	---	Plug DIN 43650-A	Plug DIN 43650-A	---	Plug DIN 43650-A
Range	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
<b>Price €</b>						
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	---	---	---	---	---	---
<b>Price €</b>						
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	---	---

\* Please specify required switching point!

## Add. costs for magnetic piston type pressure gauges/magnetic diaphragm pressure gauges

DG: M

Type	MAG 80 Dif, D312	MAG 100 Dif, D312	MAG 115 Dif, D311
Version			
	<b>Price €</b>	<b>Price €</b>	<b>Price €</b>
Maximum static pressure PN 250			---
Maximum static pressure PN 400			---
Centre back connection (electrical contacts not possible)			---
Bottom connection			---
Connection 1/4 NPT female thread			---
Connection G1/4B male thread (adaptor)			---
Connection G1/2B male thread (adaptor)			---
Connection 1/2 NPT male thread (adaptor)			---
Piston seal Viton			---
3-hole fixing, panel mounting bezel (can only be factory fitted)			---
Acrylic front glass			
Instrument grade front glass, hardened			
Glycerine filling			---
„Plus“ connection right (pointer moves from right to left)	<b>no add. cost</b>	<b>no add. cost</b>	---
Ref. pointer			---
Adjustable red reference pointer			
Filter in „plus“ connection			---
Reed contact, double pole changeover (SPDT) RK2.W (additional cost relative to basic unit with single pole change-over Reed contact RK1.W !)			---

## Accessories

DG: M

Type	MAG 80 Dif, D312	MAG 100 Dif, D312	MAG 115 Dif, D311
	<b>Price € Part no.</b>	<b>Price € Part no.</b>	<b>Price € Part no.</b>
Aluminum back mounting plate and fixing clamp for wall mounting or 2" pipe mounting	38001	38001	38304
Plastic mounting plate for wall mounting	38305	38305	---