

Type DA 08

Application

These instruments are mainly used in industrial and climatic engineering to measure low differential pressures across

- moving tap filters
- ventilators
- veturitubes etc.

as far as the medium to be measured is gaseous and is non-corrosive and clean.

Main Features

- A low-price mechanical instrument for low and extremely low differential pressure.
- Simple technical construction

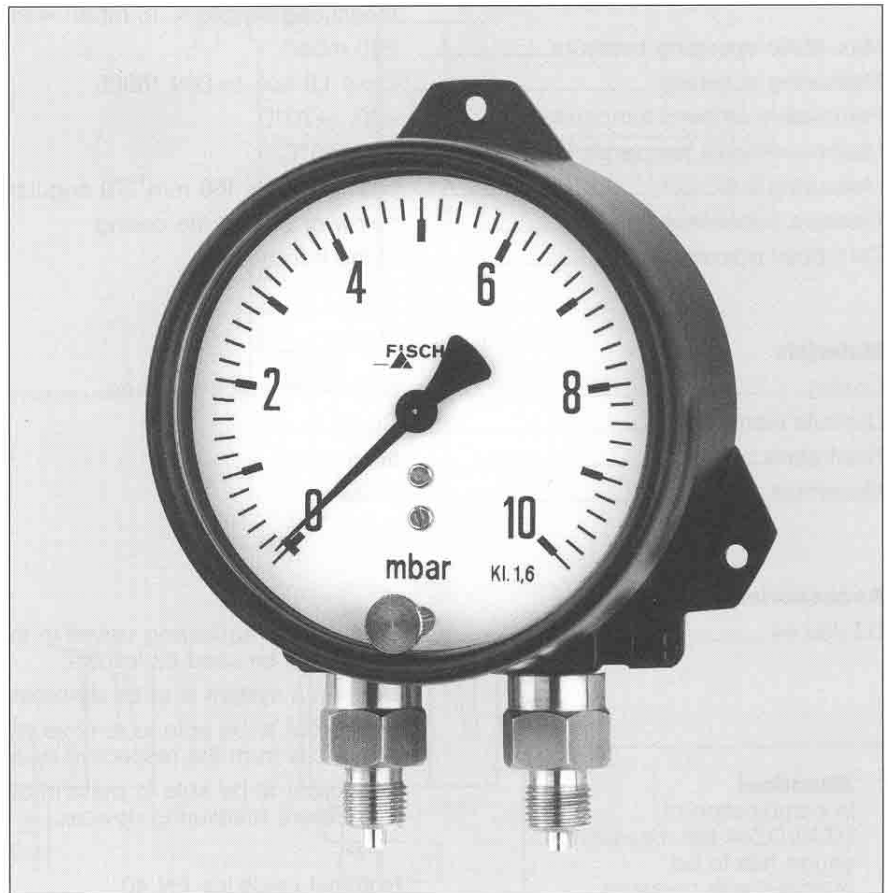
Construction and Functioning

In a pressure proof casing a capsule element measuring system is installed, force-compensated.

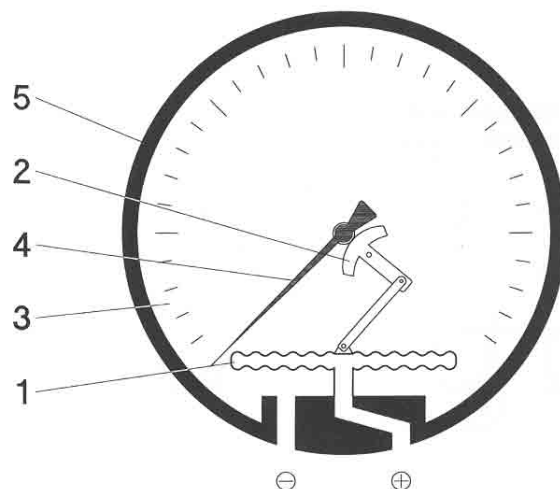
The higher pressure acts on the capsule element; the lower pressure is lead directly into the pressure-proof casing.

The differential pressure arising between the internal and external side of the measuring element leads to a form change of the capsule element.

The deformation is turned into a scaled measured value indication via the motion work.



Functional Diagramm



1. Capsule Element
2. Motion Work
3. Scale
4. Indicator
5. Pressure Dense Casing

Technical Data

Measuring range	0...4 mbar up to 0...160 mbar
Max. pressure rating	measuring ranges = 16 mbar: = 10 x measuring ranges < 16 mbar: = 200 mbar
Max. static operating pressure	200 mbar
Measuring accuracy	class 1,6 acc. to DIN 16005
Permissible ambient temperature	-20...+70°C
Maximum media temperature	max. 50°C
Measuring indication	casing 100 or 160 mm/270 angular degrees
Pressure connection	below or behind the casing
Zero point adjustment	at the frontside

Materials

Casing	aluminium, black laquered
Capsule element	Cu Be 2
Front glass	acryl glass
Movement	brass

Accessories

DZ 43/44 Shut-off and equalizing valves in three and four spindle version. These can be used as follows:

- when a system is to be de-pressurised or taken out of service
- in order to be able to remove or separate differential pressure measuring devices from the respective system to carry out inspection and repairs
- in order to be able to perform on-site functional inspection of differential pressure measuring devices.

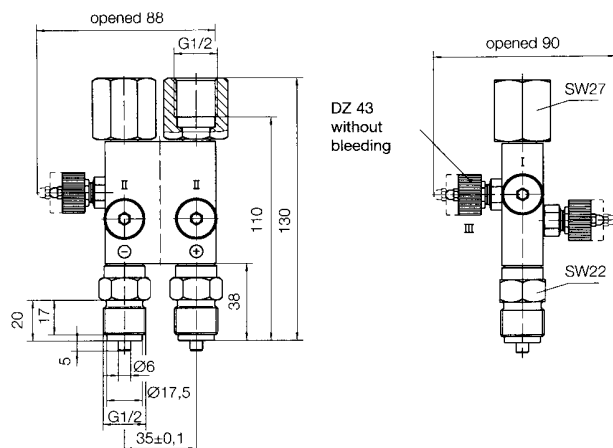
Attention!

In combination of DZ43/DZ44 the measuring gauge has to be provided with pressure connection G 1/2 " (acc. to ordering code)

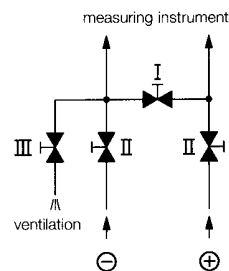
Nominal pressure: PN 40
Housing material: either brass or chrome-nickel-steel 1.4301

The shut-off mechanism DZ 44 includes an additional valve for bleeding the connected system.

DZ 43 / 44 Shut-off and equalizing valve

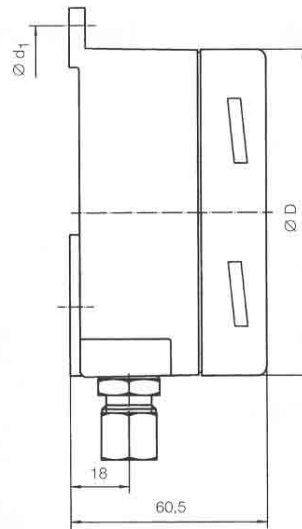
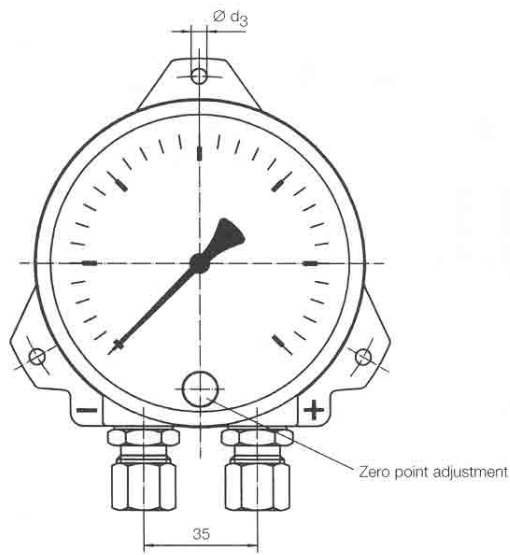


Function



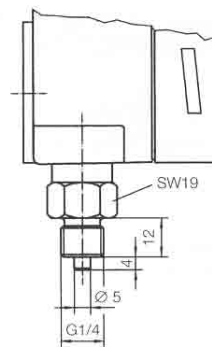
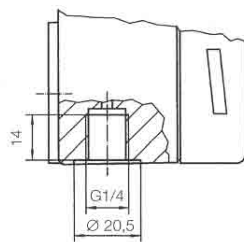
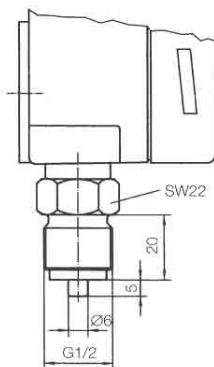
Drawing

Wall mounting

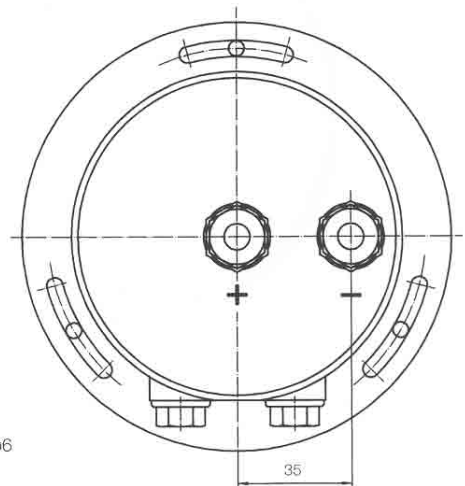
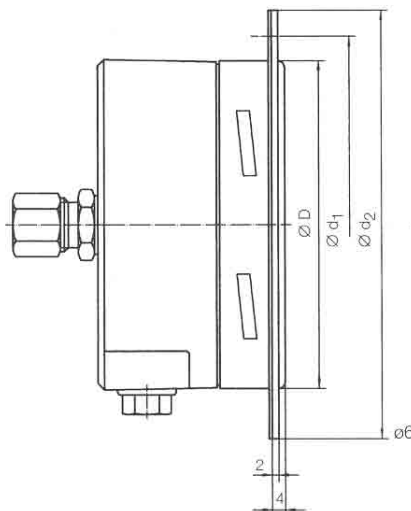
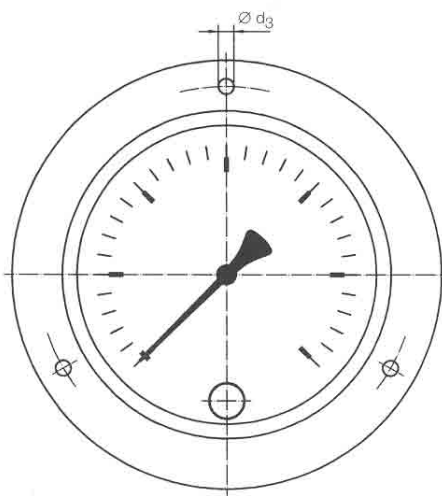


NG	$\varnothing D$	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$
100	101	116	132	4,8
160	161	178	196	5,8

Variation of connection



Panel mounting (Connection behind the casing)



Ordering Code

Differential Pressure Gauge

Typ DA 08

□ □ **A** **0** □ □ □ □

Measuring ranges

0... 4 mbar.....	▽	5	2
0... 6 mbar.....	▽	5	3
0... 10 mbar.....	▽	5	4
0... 16 mbar.....	▽	5	5
0... 25 mbar.....	▽	5	6
0... 40 mbar.....	▽	5	7
0... 60 mbar.....	▽	5	8
0... 100 mbar.....	▽	5	9
0... 160 mbar.....	▽	6	0

Nominal pressure of the measuring system

200 mbar

Pressure connection

Connector bung, G 1/4 i (internal)	▽	0	1
Connector bung, G 1/4 A (external)	▽	0	6
Connector bung, G 1/2 A (external) – in combination with DZ 43/DZ 44)	▽	0	8
Connector with cutting ring fitting in brass for 6 mm tube	▽	2	8
Connector with cutting ring fitting in brass for 8 mm tube	▽	2	9
Connector with cutting ring fitting in brass for 10 mm tube	▽	3	0
Connector for flex tube 6/4	▽	4	0
Connector for flex tube 8/6	▽	4	1

Measuring indication

Casing in aluminium with bayonett ring Ø 100	▽	C
Casing in aluminium with bayonett ring Ø 160	▽	V

Measuring gauges performance

Wall mounting (connection behind)	▽	B
Front ring for panel mounting (connection below)	▽	L
Front ring for panel mounting (connection behind)	▽	G