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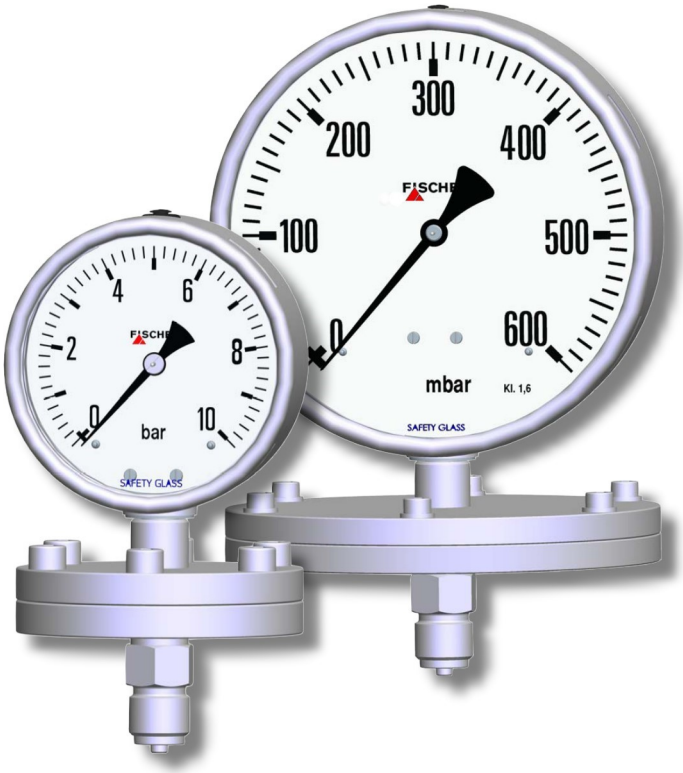

Operation manual

MA15F ... 0

Diaphragm manometer
Standard version

09015052 • BA_EN_MA15 • Rev. ST4-H • 10/25

Masthead

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Subject to technical amendments.

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1 Safety information

1.1 General

This operating manual contains basic instructions for the installation, operation and maintenance of the device that must be followed without fail. It must be read by the installer, the operator and the responsible specialist personnel before installing and commissioning the device.

This operating manual is an integral part of the product and therefore needs to be kept close to the instrument in a place that is accessible at all times to the responsible personnel.

The following sections, in particular instructions about the assembly, commissioning and maintenance, contain important information, non-observance of which could pose a threat to humans, animals, the environment and property.

The instrument described in these operating instructions is designed and manufactured in line with the state of the art and good engineering practice.

1.2 Personnel Qualification

The instrument may only be installed and commissioned by specialized personnel familiar with the installation, commissioning and operation of this product.

Specialized personnel are persons who can assess the work they have been assigned and recognize potential dangers by virtue of their specialized training, their skills and experience and their knowledge of the pertinent standards.

1.3 Risks due to Non-Observance of Safety Instructions

Non-observance of these safety instructions, the intended use of the device or the limit values given in the technical specifications can be hazardous or cause harm to persons, the environment or the plant itself.

The supplier of the equipment will not be liable for damage claims if this should happen.

1.4 Safety Instructions for the Operating Company and the Operator

The safety instructions governing correct operation of the instrument must be observed. The operating company must make them available to the installation, maintenance, inspection and operating personnel.

Dangers arising from electrical components, energy discharged by the medium, escaping medium and incorrect installation of the device must be eliminated. See the information in the applicable national and international regulations.

Please observe the information about certification and approvals in the Technical Data section.

1.5 Unauthorised Modification

Modifications of or other technical alterations to the instrument by the customer are not permitted. This also applies to replacement parts. Only the manufacturer is authorised to make any modifications or changes.

1.6 Inadmissible Modes of Operation

The operational safety of this instrument can only be guaranteed if it is used as intended. The instrument model must be suitable for the medium used in the system. The limit values given in the technical data may not be exceeded.

The manufacturer is not liable for damage resulting from improper or incorrect use.

1.7 Safe working practices for maintenance and installation work

The safety instructions given in this operating manual, any nationally applicable regulations on accident prevention and any of the operating company's internal work, operating and safety guidelines must be observed.

The operating company is responsible for ensuring that all required maintenance, inspection and installation work is carried out by qualified specialized personnel.

1.8 Pictogram explanation

⚠ DANGER

Type and source of danger

This indicates a **direct** dangerous situation that could lead to death or **serious injury** (highest danger level).

1. Avoid danger by observing the valid safety regulations.

⚠ WARNING

Type and source of danger

This indicates a **potentially** dangerous situation that could lead to death or **serious injury** (medium danger level).

1. Avoid danger by observing the valid safety regulations.

⚠ CAUTION

Type and source of danger

This indicates a **potentially** dangerous situation that could lead to slight or serious injury, damage or **environmental pollution** (low danger level).

1. Avoid danger by observing the valid safety regulations.

NOTICE

Note / advice

This indicates useful information of advice for efficient and smooth operation.

2 Product and functional description

2.1 Delivery scope

- Diaphragm manometer MA15
- Operating Manual

2.2 Product summary

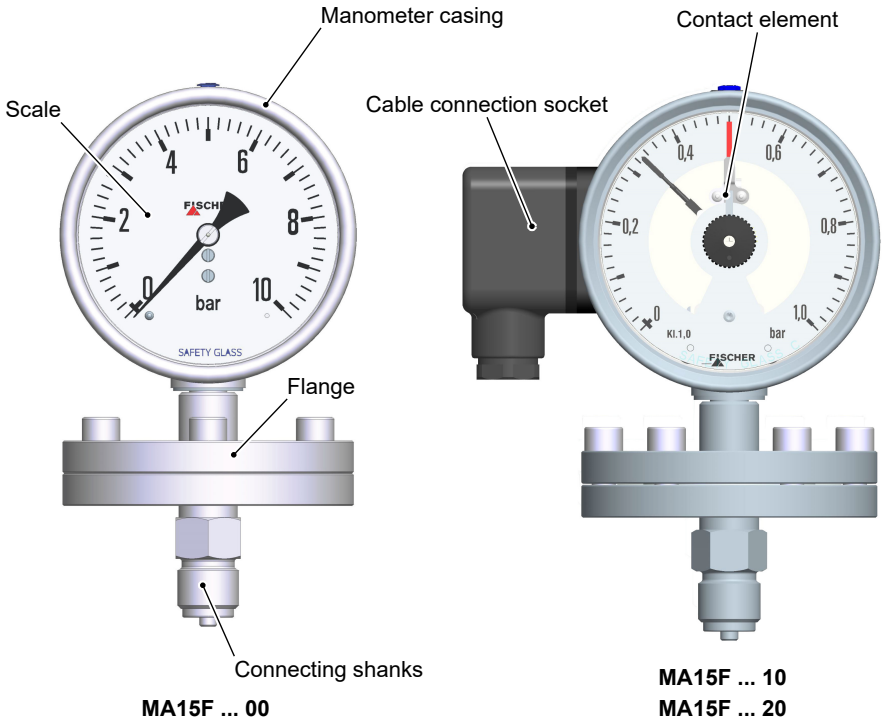


Fig. 1: Product summary

Manometer casing

The following options are available for the manometer casing:

- Bayonet ring housing NG100 or NG160
- Safety casing NG100 or NG160
  with unbreakable rear wall and blow-out opening acc. to DIN EN 837

Process connection

Please see the order code for precise details about the process connection options (flange and connection pin).

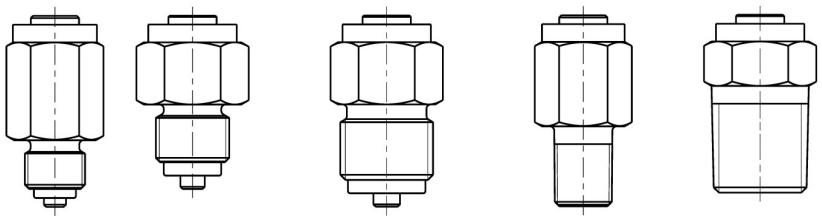


Fig. 2: Process connection

Type plate

The rating plate shown serves as an example of the information contained. For further information, please refer to the order code at the end of these instructions.

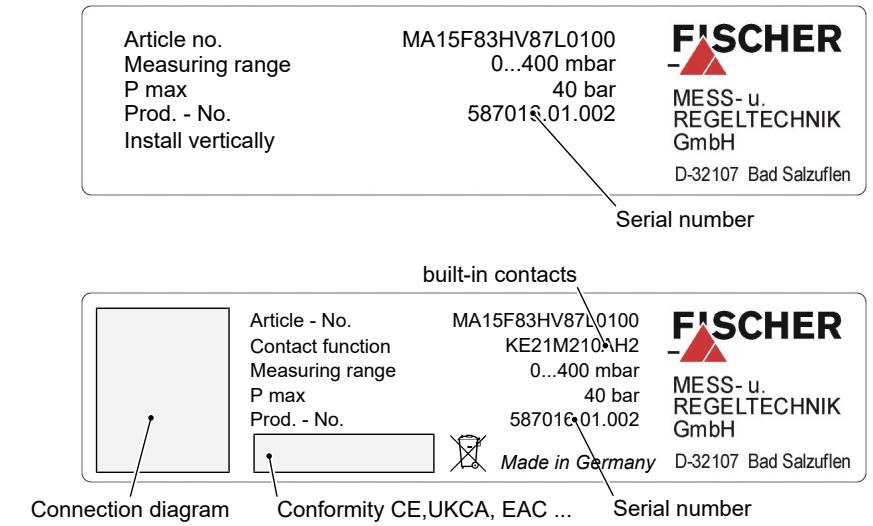


Fig. 3: Type plates with and without contacts

2.3 Intended use

The units may only be used for the purpose stipulated by the manufacturer.

The units serve to measure over-pressure and under-pressure in industrial applications.

The optional installed switch elements are low-action contacts, mechanical magnetic spring contacts or inductive proximity switches in a slotted design.[1] If the set limit values are exceeded, the output power circuits are opened or closed.

The corresponding setup regulations are to be considered for each application case.

[1] Please see the information in the order code.

2.4 Function diagram

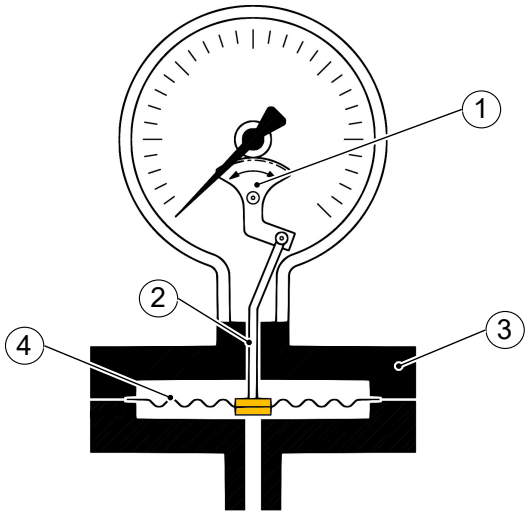


Fig. 4: Function diagram

1 Motion train	2 Connecting rod
3 Flange	4 Diaphragm

2.5 Design and mode of operation

The measuring element, the concentric corrugated diaphragm, is clamped between two flanges and the medium is applied on one side.

The diaphragm bulges elastically from its normal position as a result of the applied pressure. The linear movement is proportional to the applied pressure. A rod assembly on the side of the diaphragm that faces away from the medium captures the expansion movement and transfers it to the indicator.

The measurement display is shown on a 270 W° scale.

3 Assembly

3.1 Generalities

The instrument may only be installed and commissioned by specialized personnel familiar with the installation, commissioning and operation of this product.

Specialized personnel are persons who can assess the work they have been assigned and recognize potential dangers by virtue of their specialized training, their skills and experience and their knowledge of the pertinent standards.

⚠ WARNING

Mounting pressure transmitters

During assembly, observe the respective national and international guidelines and safety regulations.

Only mount the unit to systems that are depressurized. Only ever operate the unit within the permitted measuring range or below the maximum overload.

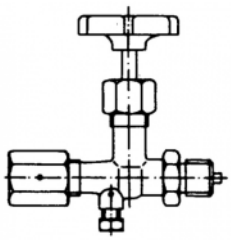


Fig. 5: Shutoff valve.

The device is set ex-works for vertical installation, however any installation position is possible.

To guarantee safe working conditions during installation and maintenance, suitable stop valves must be fitted in the system (see accessories). By means of the manometer shutoff, the unit

- Can be depressurized or taken out of operation.
- Be disconnected from the power supply within the applicable system for repairs or inspections.

3.2 Process connection

- By authorized and qualified specialized personnel only.
- The pipes need to be depressurized when the instrument is being connected.
- Appropriate steps must be taken to protect the device from pressure surges.
- Check that the device is suitable for the medium being measured.
- Maximum pressures must be observed (cf. Tech. data)

⚠ WARNING

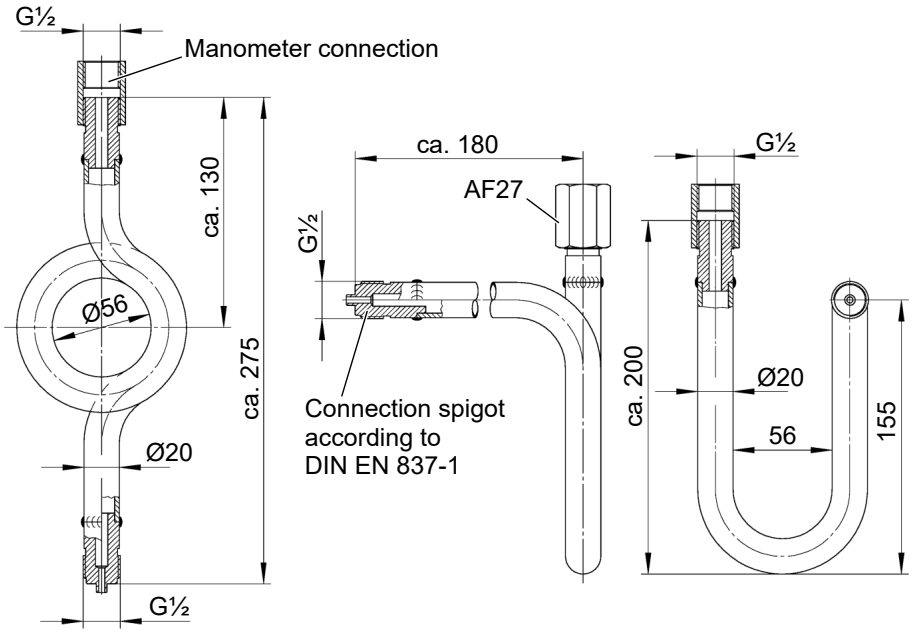
Earth connection via the system earth

During assembly, ensure that the earth connection between the unit and the system earth is ensured. The connection to the system earth is realised via the process connection. Therefore, never use an insulated Teflon tape or similar. Design the process connection acc. to EN 837 and use a suitable flat seal.

3.2.1 Measuring lines that need to be connected

The following points need to be observed when connecting the pressure line:

- To ensure there is no influence on the measured values, severe bends and coils in the wire should be avoided.
- To prevent deposits, there should be a continuous incline or drop of at least 8%.
- When measuring steam pressure, a water bag-forming loop must be provided due to the temperature (see accessories).



Round shape U-shape

Fig. 6: Siphon MZ1###

- The transmitter must be positioned below the measuring point for liquid measurements. Vent the pressure line before commissioning.
- The transmitter must be positioned above the measuring point for gas measurements.

3.2.2 Pressure surge absorption

Pulsating pressure on the system side can lead to functional problems. We recommend installing a damping element in the pressure connection lines as a protective measure.

a) Capillary throttle

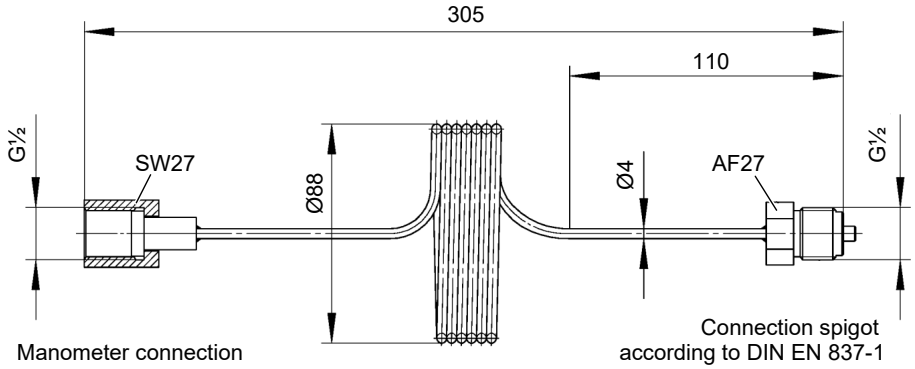


Fig. 7: Capillary throttle MZ400#

b) Settable damping reactor

In operating mode, the damping throttle must be set so that the output signal follows the pressure changes with a delay.

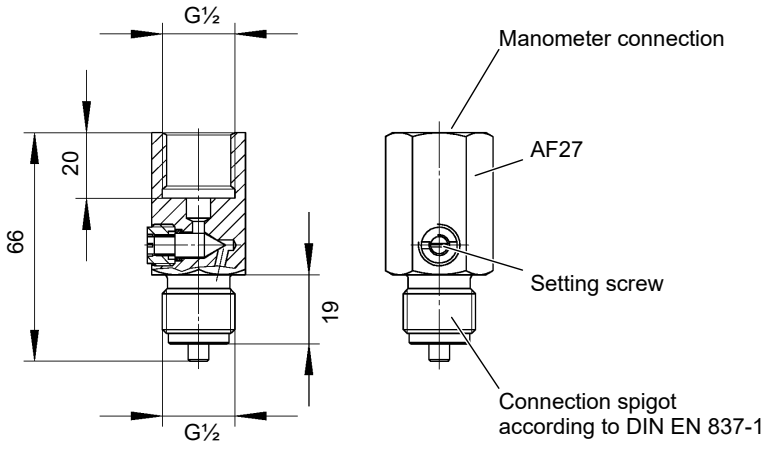


Fig. 8: Damping reactor MZ410#

3.3 Electrical connections

3.3.1 General information

Only units with installed contacts are connected to the power supply.

- By authorized and qualified specialized personnel only.
- When connecting the unit, the national and international electro-technical regulations must be observed.
- The electrical connection is usually realised via a cable socket mounted to the side.
- Disconnect the system from the mains, before electrically connecting the device.
- Please see the type plate for the connection assignment.

3.3.2 Cable socket / HAN plug

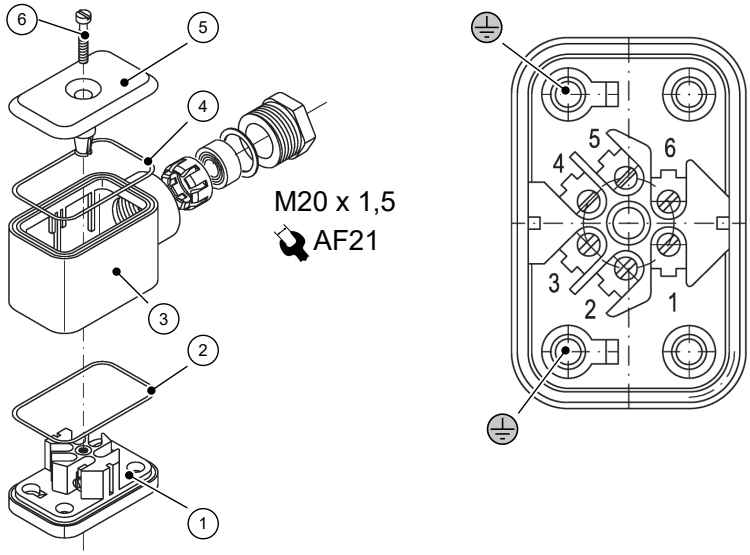


Fig. 9: Cable socket

1	Lower part	2	Sealing ring EPDM
3	Middle part	4	Sealing ring EPDM
5	Lid	6	Lid screw

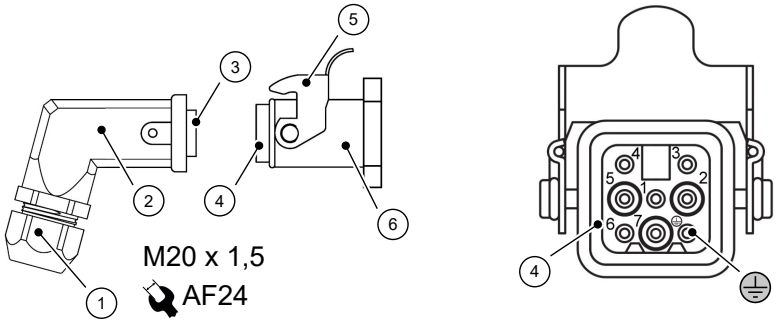


Fig. 10: HAN connector

1	Cable screw connection M20 x 1.5	2	Sleeve housing Han 3A
3	Socket insert Han 7D	4	Pin insert Han 7D
5	Safety clip	6	Attachment casing Han 3D

3.3.3 Limit switch in accordance with data sheet KE

For more technical information about the contact types and connection options, please see the data sheet KE. You can request the data sheet on request or via our webserver www.fischermesstechnik.de.

4 Commissioning

4.1 General

All electrical supply, operating and measuring lines, and the pressure connections must have been correctly installed before commissioning. All supply lines are arranged so that there are no mechanical forces acting on the device.

Check that the pressure connections do not leak before commissioning.

4.2 Zero point correction

The pressure measuring units are set in the factory before delivery so that they do not usually need to be adjusted at the assembly site.

The zero-point may need to be corrected for some units on site (see order code).

Units with setting screw

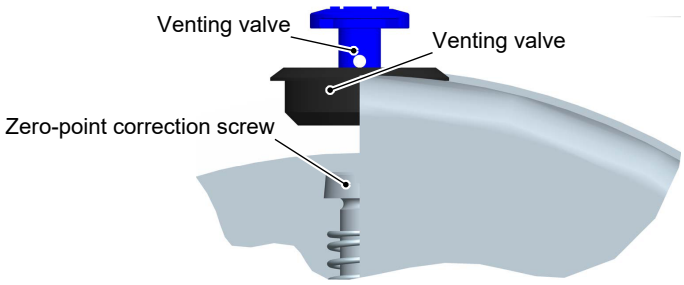


Fig. 11: Zero point correction

1. Depressurize the measuring line or only exert the existing static system pressure.
2. Open the venting valve as shown in the illustration and carefully remove the entire valve plug from the casing.
3. Adjust the measurement value pointer using zero point correction screw to the scale zero point.
4. Refit the valve plug into the casing.
5. Close the venting valve.

Unit with micro adjustment indicator

Micro adjustment indicators can only be used in units without a fluid filling.

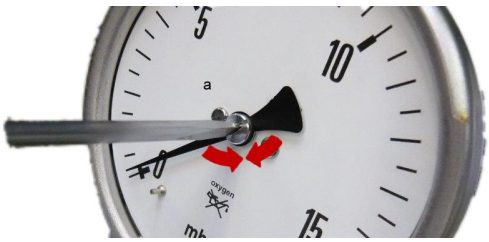


Fig. 12: Micro adjustment indicator

1. Open the casing by releasing the bayonet ring.
2. Set the indicator to zero with a screwdriver.
3. Close the casing.

4.3 Switch point setting

There is an adjustment lock attached to the front pane of the measuring unit on units with installed limit signal encoders. Using the detachable adjustment key, the contacts attached to the target indicators can be set to any point along the scale.

To facilitate switching precision and the service life of the mechanical measuring system, the switching points should lie between 10% and 90% of the measuring range.

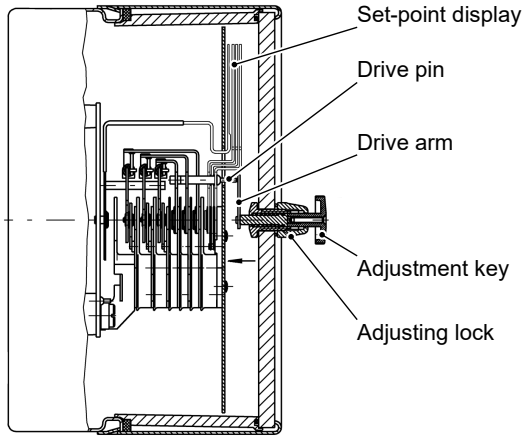


Fig. 13: Contact element

1. Place the adjustment key on the axle of the adjusting lock
2. Press axle inwards until the drive arm reaches behind the setting pin of the target value indicator.
3. Set the target value indicator to the required switch point by turning the key.
4. Relieve the axle, remove the adjustment key

Contact function

Function 1: Close contacts for increasing display in clockwise direction.
Function 2: Open contacts for increasing display in clockwise direction.

Contact assignment:

Up to three contacts are available depending on the unit version.

1. Contact left target indicator
2. Contact middle target indicator
3. Contact right target indicator

5 Servicing

5.1 Maintenance

The instrument is maintenance-free. We recommend the following regular inspection to guarantee reliable operation and a long service life:

- Check the function in combination with downstream components.
- Check the leak-tightness of the pressure connection lines.
- Check the electrical connections.

The exact test cycles need to be adapted to the operating and environmental conditions. In combination with other devices, the operating instructions for the other devices also need to be observed.

5.2 Transport

The measuring device must be protected against impacts. It should be transported in the original packaging or a suitable transport container.

5.3 Service

All defective or faulty devices should be sent directly to our repair department. Please coordinate all shipments with our sales department.

⚠ WARNING

Process media residues

Process media residues in and on dismantled devices can be a hazard to people, animals and the environment. Take adequate preventive measures. If required, the devices must be cleaned thoroughly.

Return the device in the original packaging or a suitable transport container.

5.4 Accessories

- Siphons MZ1###
- Capillary throttle coil MZ400#
- Settable damping reactor MZ410#
- Manometer shutoff valves MZ5###, MZ6###

Please see here the data sheet MZ measuring devices accessories. Here you will find more detailed information about the technical data and the order codes of the accessory parts MZ.

You can request the data sheet on request or via our webserver www.fischer-messtechnik.de.

5.5 Disposal

WEEE-Reg.-No. DE 31751293

Please help to protect our environment and dispose of the workpieces and packaging materials used in an environmentally friendly manner. Observe the country-specific waste treatment and disposal regulations.

The year of production can be found in the production number (serial number):

P# 23 03618.03.123

Production year 2023

Further information on disposal can be found on our website [www.fischermesstechnik.de]

6 Technical Data

6.1 Standard version

The measuring variable is pressure and/or under-pressure in gaseous, liquid, aggressive, highly viscous or soiled media.

The diaphragm manometer fulfils the requirements of the standard EN 837-3.

Measuring range

0 …16 mbar to 0 … 250mbar	Flange diameter 160 mm
0 … 400 mbar bar to 0 … 25 bar	Flange diameter 100 mm
-1 … 0 to -1 … 24 bar	

Pressure load

Admissible overload	5x Scale upper value (max. 40 bar)	
Idle load	Scale upper value	
Alternating load	0.9 x Scale upper value	
Max. pressure (flange screw connection)	160 mm	10 bar
	100 mm	40 bar

Process connection

Connecting shanks	G½B, G¼B, G⅜B	
	¼-18 NPT, ½-14 NPT	
	M20 x 1.5	
Connection flange DIN EN	DN20, DN25, DN50	PN40
Connection flange ANSI	1", 2", 3"	150 lbs, 300 lbs
open connection flange with loose collare flange *)	DN 50	PN40

*) only for measuring ranges ≥ 400 mbar

Accuracy class

1.6	
2.5	Units with coated / cladded measuring system

Permissible temperature

Increase ambient temperature	-20 °C … +60 °C
Media temperature	≤ 85 °C
Storage temperature	-40 °C … +70 °C

Temperature influence

If there is a reference temperature difference of +20 °C on the measuring system:

≤ ±0.8 % /10 K	of the respective scale upper value

Housing

Bayonet ring housing	Ø 100 or 160 mm
Safety housing	

Protection

IP66 acc. to EN 60529 / IEC 60529

Materials

Housing	CrNi Steel 1.4404
Motion train	CrNi steel 1.4301
Dial face and needle	Aluminium (painted)
Inspection disk	Safety laminated glass
Connecting port (contact with medium)	CrNi-steel 1.4404 (AISI 316L)
Connection flange (contact with medium)	CrNi-steel 1.4404 (AISI 316L)
Diaphragm (contact with medium)	
- Measuring range < 160 mbar	CrNi steel 1.4571 (AISI 316T)
- Measuring ranges ≥ 160 mbar	NiCrCo alloy (DURATHERM®)
Seals (contact with medium)	VITON®

6.2 Options

Additional electrical attachments

Limit signal transmitters of the type KE can be fitted into a housing enlarged by a corresponding bayonet ring. The electrical connection is usually realised via a cable connection socket mounted to the side of the casing.

For technical data, please refer to the KE data sheet, which is available on request or can be downloaded from our web server at www.fischermesstechnik.de.

Liquid filling

In case of difficult operating conditions such as vibrations, extreme pressure fluctuations or to avoid condensation in case of outdoor installation, the enclosure can be filled with the following liquids depending on the type of contacts installed:

Without contacts	Paraffin oil, glycerine, silicone oil
Magnetic snap-action contacts	Silicone oil
Inductive contacts	Paraffin oil, silicone oil

Needle

- **Marker indicator**
  Settable indicator for marking the limit value in the disk.
- **Drag indicator**
  The drag indicator is 'dragged' by the measured value indicator. As there is no fixed connection between the two needles, one-off maximum values are stored. The trailing needle can be reset using an adjusting dial in the window.

Measuring system

- **O_2 applications 'Oil and grease'**
  In compliance with the requirements of the Chemical Professional Association, all parts that come into contact with the medium are cleaned (see order code filling fluids)

- **PTFE cladding and/or PFA coating of the measuring system**
  In the case of highly aggressive media, all parts that come into contact with the medium are coated with a protective sheath of PFA or PTFE. A FEP covered O-Ring made of FKM is used for the flange seal. A suitable seal needs to be used on the system side to seal the cladded units.
- **Material**
  Optionally, the measuring system incl. the process connection is also made of Hastelloy C.

Zero point correction

- with a setting screw
- with a micro adjustment indicator

6.3 Dimensional drawings

All dimensions in mm unless otherwise stated

6.3.1 Model without contacts

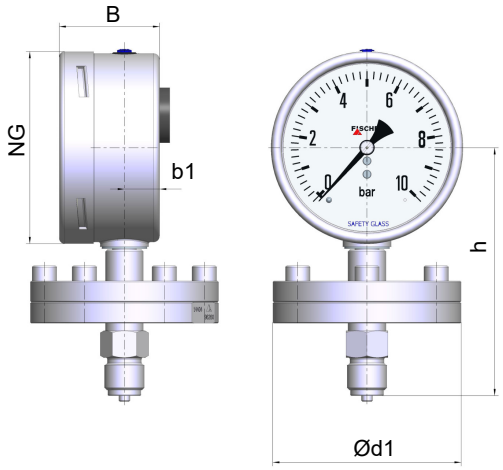


Fig. 14: Dimension drawing MA15F without contacts

Housing	NG	B	h	b1	Ød1
Bayonet ring housing	100	53	130	19	100
	160	53	160	19	157
Safety housing	100	63	130	26	100
	160	65	160	26	157

6.3.2 Model with contacts

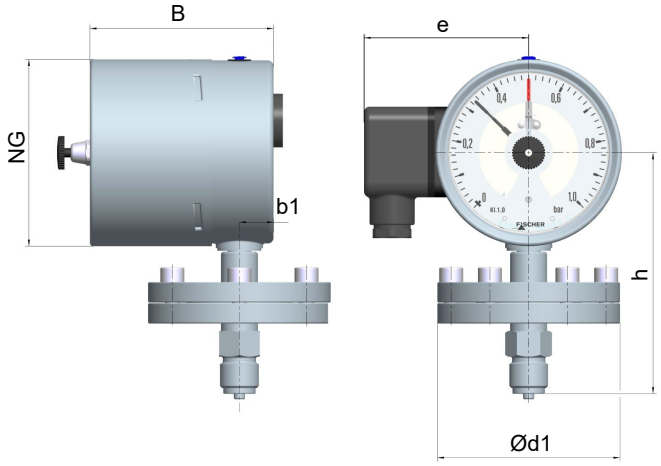


Fig. 15: Dimension drawing MA15F with contacts

Housing	NG	B	h	b1	Ød1	e
Bayonet ring housing	100	100	130	19	100	90
	160	100	160	19	157	120
Safety housing	100	109	130	26	100	90
	160	109	160	26	157	120

6.3.3 Process connection

6.3.3.1 Version with collar flange

The dimensions stated apply for all housing models NG100 and NG160.

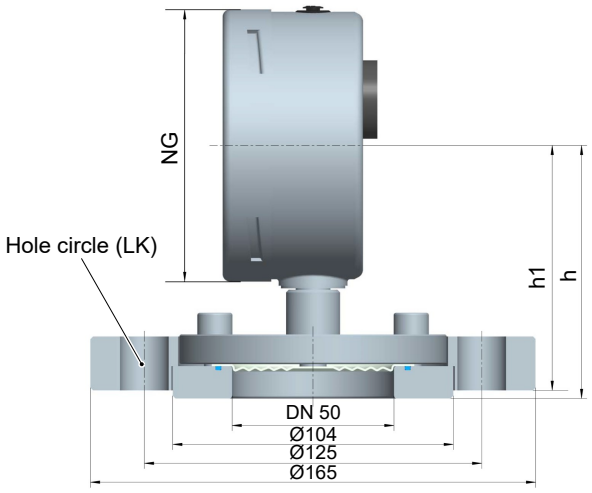


Fig. 16: Collar flange

Measuring range ≥ 400 mbar

DN	PN	NG	h	h1	LK	
					No.	Borehole
50	40	100	94	91	4	18
		160	124	121	4	18

6.3.3.2 Version with DIN connection flange

The dimensions stated apply for all housing models NG100 and NG160.

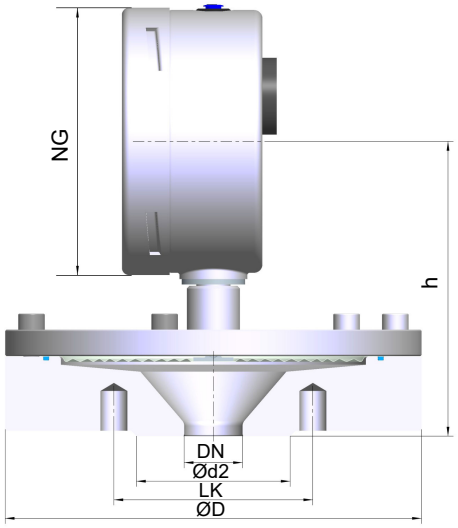


Fig. 17: Connection flange

Measuring range ≤ 400 mbar

DN	PN	ØD	Ød2	h	LK		
					Ø	No.	Thread
20	40	157	58	111	75	4	M12
25	40	157	68	110	85	4	M12
50	40	165	102	108	125	4	M16

Measuring range ≥ 0.6 bar

20	40	105	58	106	75	4	M12
25	40	115	68	103	85	4	M12
50	40	165	102	108	125	4	M16

6.3.3.3 Version with ANSI connection flange

Dimension drawing, see Version with DIN connection flange [▶ 21]. The dimensions stated apply for all housing models NG100 and NG160.

Measuring range ≤ 400 mbar

		ØD	Ød2	h	LK		
					Ø	No.	Thread
1"	150 lbs	157	50.8	118	79.2	4	½-13 UNC
1"	300 lbs	157	50.8	120	88.9	4	⅝-11 UNC
2"	150 lbs	157	91.9	123	120.7	4	⅝-11 UNC
3"	150 lbs	165	92.1	114	127	8	⅝-11 UNC

Measuring range ≥ 0.6 bar

1"	150 lbs	108	50.8	118	79.2	4	½-13 UNC
1"	300 lbs	123	50.8	124	88.9	4	⅝-11 UNC
2"	150 lbs	152	91.9	107	120.7	4	⅝-11 UNC
3"	150 lbs	190.5	127	119	152.4	4	Ø19.1

6.3.3.4 Connecting shanks

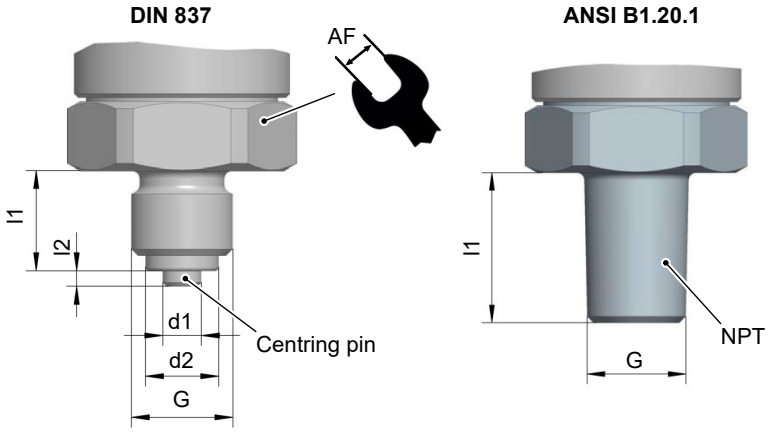
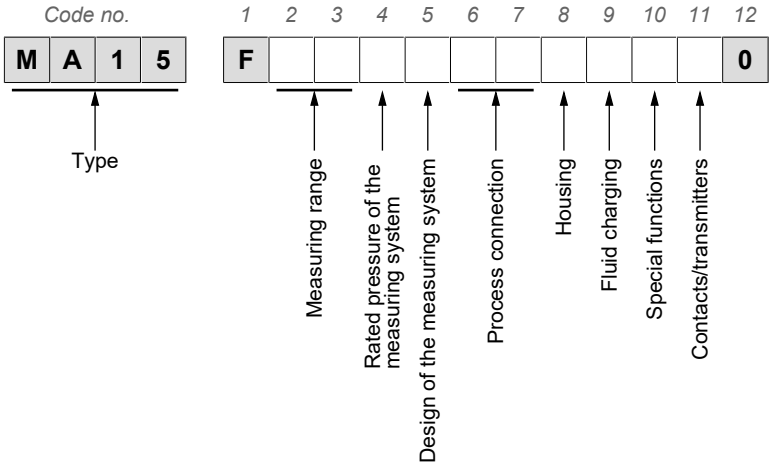


Fig. 18: Connecting shanks

G (Thread)	d1	d2	l1	l2	SW
G¼B	5	9.5	13	2	19
G⅜B	5.5	13	16	3	22
G½B	6	17.5	20	3	22
M20 x 1.5	6	17.5	20	3	22
¼-18 NPT			15		19
½-14 NPT			19		22

7 Order Codes



[2.3]	Measuring range
55	0 … 16 mbar
56	0 … 25 mbar
57	0 … 40 mbar
58	0 … 60 mbar
59	0 … 100 mbar
60	0 … 160 mbar
82	0 … 250 mbar
83	0 … 400 mbar
01	0 … 0.6 bar
02	0 … 1 bar
03	0 … 1.6 bar
04	0 … 2.5 bar
05	0 … 4 bar
06	0 … 6 bar
07	0 … 10 bar
08	0 … 16 bar
09	0 … 25 bar
31	-1 … 0 bar
32	-1 … 0.6 bar
33	-1 … 1.5 bar
34	-1 … 3 bar
35	-1 … 5 bar
36	-1 … 9 bar
37	-1 … 15 bar
28	-1 … 24 bar

[4]	Rated pressure of the measuring system
E	10 bar (Measuring ranges ≤ 250 mbar)
H	40 bar (Measuring ranges ≥ 400 mbar)

[5]	Design of the measuring system
V	CrNi Steel 1.4404
S	CrNi steel 1.4404 with diaphragm in Hastelloy C
T	CrNi steel 1.4404 with PFA coating
P	CrNi steel 1.4404 with PTFE coating

[6.7]	Process connection
85	Connection shanks with external thread G¼B acc. to DIN EN 837
86	Connection shanks with external thread G⅜B acc. to DIN EN 837
87	Connection shanks with external thread G½B acc. to DIN EN 837
88	Connecting port G½ with outer thread ¼-18 NPT
89	Connecting port G½ with outer thread ½-14 NPT
S2	Connection shanks with external thread M20 x 1.5 acc. to DIN EN 3852
FL	open flange with collar attachment flange DN50 PN40 *)
F1	Connection flange DN20, PN40
F2	Connection flange DN25, PN40
F5	Connection flange DN50, PN40
D3	ANSI flange 1" 150 lbs
D8	ANSI flange 1" 300 lbs
D6	ANSI flange 2" 150 lbs
D5	ANSI flange 3" 150 lbs

*) only for measuring ranges from 400 mbar

[8]	Housing
L	Bayonet ring housing NG100
M	Bayonet ring housing NG160
0	Safety housing NG100
P	Safety housing NG160

[9]	Fluid charging	
0	Without fluid filling	
1	Glycerine	Only for units without contacts
4	Paraffin	Not for units with magnetic spring contacts
5	Silicone oil	For units with and without contacts

Please note that units can only be filled with fluid from a measuring range of 100 mbar.

[10]	Special functions	
1	Zero-point correction with setting screw	
2	Zero-point correction micro adjustment indicator	
3	Zero-point correction with setting screw	Adjustable marker needle
4	Zero-point correction with setting screw	Resettable drag needle ♠)
5	Zero-point correction micro adjustment indicator	Adjustable marker needle
6	Zero-point correction micro adjustment indicator	Resettable drag needle ♠)

♠) only for measuring ranges from 60 mbar

[11]	Contacts/transmitters ♦)
0	No contacts/transmitters
1	Contacts as per data sheet KE

♦) only for measuring ranges from 100 mbar

7.1 Accessories

Measuring instrument accessories according to data sheet MZ.

Order no.	Designation
MZ1###	Siphons according to DIN 16282, PN100 on both sides G½
MZ400#	Capillary inductor 2 mm clear width, socket G1/2i, pin G1/2A
MZ5###	Pressure gauge Shut-off valve acc. to DIN 16270/16271 Journal/ socket G1/2
MZ6###	Pressure gauge double valve acc. to DIN 16272 Journal/socket G1/2

The data sheet is available on request or from our web server www.fischer-messtechnik.de.

7.2 Information about EU Declaration of Conformity

According to the Directive 2014/68/EU Article 4, Par. 3, this unit lies below the limit values (200 bar, 0.1 l). The unit has been designed and produced in line with the latest good engineering practice. This ensures that the unit operates safely. The unit does not have a safety function. Adequate operating instructions are enclosed with the pressurised units.

This is why pressurized units without contact fixtures (MA15 … 00) do not bear the CE label.

8 Attachments

8.1 EU Declarations of conformity

FISCHER MESS- UND REGELTECHNIK

(Translation) CE

EU Declaration of Conformity

For the product described as follows

Product designation **Diaphragm pressure gauge**
(with contact desvice KE ## S/M ##### H2)

Type designation **MA15 ... 10**

it is hereby declared that it corresponds with the basic requirements specified in the following designated directives:

2014/35/EU	*Low Voltage Directive*
2011/65/EU	*RoHS Directive*
(EU) 2015/863	*Delegated Directive amending Annex II to Directive 2011/65/EU*

The products were tested in compliance with the following standards.

Low Voltage Directive (LVD)

DIN EN 61010-1:2020-03 *EN 61010-1:2010 + A1:2019 + A1:2019/ AC:2019*	*Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements*

RoHS Directive (RoHS 3)

DIN EN IEC 63000:2019-05 *EN IEC 63000:2018*	*Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances*

Also they were subjected to the conformity assessment procedure „**Internal production control**".

Sole responsibility for the issue of this declaration of conformity in relation to fulfilment of the fundamental requirements and the production of the technical documents is with the manufacturer.

Manufacturer
FISCHER Mess- und Regeltechnik GmbH
Bielefelder Str. 37a
32107 Bad Salzuflen, Germany
Tel. +49 (0)5222 974 0

The devices bear the following marking: CE

Bad Salzuflen
11 Mar 2025

T. Malischewski
Managing Director

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Fig. 19: CE_DE_MA15F_10

8.2 UKCA Declarations of Conformity

FISCHER MESS- UND REGELTECHNIK

(Translation) UK CA

UKCA Declaration of Conformity

For the product described as follows

Product designation **Diaphragm pressure gauge**
(with contact desvice KE ## S/M ##### H2)

Type designation **MA15 ... 10**

is hereby declared to comply with the essential requirements, specified in the following UK regulations:

Statutory regulation No.	***Description***
2016 No. 1101	*The Electrical Equipment (Safety) Regulations 2016*
2022 No. 1647	*The Hazardous Substances and Packaging (Legislative Functions and Amendment) (EU Exit) Regulations 2020*
2021 No. 422	*The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (Amendment) Regulations 2021*

The products have been tested according to the following standards.

Low Voltage Directive (LVD):

BS EN 61010-1+A1:2017-03-31	*Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements*

Restriction of Hazardous Substances (RoHS):

BS EN IEC 63000:2018-12-10	*Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances*

The sole responsibility for drawing up this declaration of conformity in relation to the fulfilment of the essential requirements and the preparation of the technical documentation lies with the manufacturer.

Manufacturer
FISCHER Mess- und Regeltechnik GmbH
Bielefelder Str. 37a
32107 Bad Salzuflen, Germany
Tel. +49 (0)5222 974 0

The devices bear the following marking: UK CA

Bad Salzuflen
04 Okt 2021

G. Gödde
Managing director

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Fig. 20: UKCA_EN_MA15_10

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Technische Änderungen vorbehalten. Subject to technical changes. Sous réserve de modifications techniques.