

Operating and mounting manual flow control butterfly valves MRK (Ro) We/ St/ Pn...(R)

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1.0 General Remarks

This operating manual includes instructions to assemble and operate the butterfly valve in the prescribed and safe way.

In addition the respectively applicable operating instruction of the actuators are to be taken into consideration.

If any difficulties appear that can not be solved by means of the operation instructions, further information may be demanded from the manufacturer. This operating manual is in accordance with the relevant valid EN safety standards and the valid prescriptions and rules of the Federal Republic of Germany.

If the flow control butterfly valve are used abroad of the FRG, the operator and/or the person who is responsible for the plant concept must take care that the valid national rules are met.

The manufacturer reserves the right of any technical change and improvement. The use of these operating instructions suppose the qualification of the user according to paragraph 2.3 "qualified staff".

The operating staff must be trained in accordance with the operating instructions. The operating manual must always be available at the location where used.

1.1 Butterfly data

Manufacturer:

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Elektrotechnische Fabrik GmbH
Holtumsweg 13
D-47652 Weeze
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Designation

Actuators for control without zero obturation

Control base: Design-checked as per EU/2016/426, Prod. ID. Nr. CE-0085-AR0408
DIN EN 16678
DIN EN 161
(for a temperature of the medium between -20°C to +60°C)

Working pressure: 0 to 4 bar

Type of drive: We with free shaft end
St with electrical actuator
Pn with pneumatic actuator

Position of installation: We arbitrarily
St/ Pn vertical or horizontal drive

Type:	Ambient temperature	Medium	Medium temperature
MRK Ro We/ St/ Pn	-20°C to +60°C	gases of the 1 st , 2 nd and 3 rd gas families and air	-20°C to +60°C
MRK We/ St/ Pn.Ü200	-20°C to +60°C	Hot air / as well neutral and non-aggressive gases	-20°C to +200°C
MRK We/ St/ Pn.Ü550	-20°C to +60°C	Heißluft / sowie Hot air / as well neutral and non-aggressive gases	up to 550°C
MRK We/St/Pn Ü550..30	-20°C to +60°C	flue gas / as well as aggressive gasew	up to 550°C
MRK We/ St/ Pn.Ü700	-20°C to +60°C	Hot air / as well as aggressive Gases	up to 700°C
MRK We/ St/ Pn.Ü1000	-20°C to +60°C	Hot air / as well as aggressive Gases	up to 1000°C

Design: Butterfly plate through passage
Butterfly plate limit stop (-2)
In case of construction with striking butterfly a "-2" is added to the model designation e.g. MRK Ro Ma ...N-4-2

Einbau zwischen zwei Flanschen nach DIN EN 1092-2 / ANSI

Type	Prod. ID. No. CE-0085-	15	20	25	32	40	50	65	80
MRK Ro We/ St/ Pn	AR 0408	X	X	X	X	X	X	X	X
MRK We/ St/ Pn.Ü200	-	X	X	X	X	X	X	X	X
MRK We/ St/ Pn.Ü550	-	X	X	X	X	X	X	X	X
MRK We/ St/ Pn.Ü700(1000)	-	X	X	X	X	X	X	X	X

Typ	Prod. ID. No. CE-0085-	100	125	150	200	250	300	350	400
MRK Ro We/ St/ Pn	AR 0408	X	X	X	X	X	X	X	X
MRK We/ St/ Pn.Ü200	-	X	X	X	X	X	X	X	X
MRK We/ St/ Pn.Ü550	-	X	X	X	X	X	X	X	X
MRK We/ St/ Pn.Ü700(1000)	-	X	X	X	X	X	X	X	X

Optional:

- Manual operation (Ha)
- Hand lever with catch and sclae (B)
- disengageable hand lever (Bn)
- Special control butterfly plate (55)
- Through passage drawn in (99)
- additional limit switch for ignition position

1.2 Application

The UNI-Geräte flow control butterfly valves MRK are used as control appliances for control tasks all over fuel engineering.

The flow control butterfly valve are suitable for gases of the 1st, 2nd and 3rd gas families to G260 and for neutral gases and air. As variation with respective materials for hot air, flue gas, exhaust gas and aggressive gases.

If used in other cases, the operator must carefully check if construction/design of flow control butterfly valve, accessories and materials are suitable for the new application. The range of application is subject to the responsibility of the plant planner. The service life of the flow control butterfly valve is 20 years.

2.0 Danger Notices

2.1 Safety terms

The signal terms DANGER, CAUTION und NOTICE are used in this operating manual in case of notices concerning special dangers, or for unusual information requiring a special marking.



DANGER! means that in case of non-observance there is danger to life and/or considerable damage.



CAUTION! means that in case of non-observance there is danger of injury and/or damage.



NOTICE! means that attention is drawn to technical correlations/connections.

Observance of other, not especially marked notices concerning transport, assembly, operation and maintenance and other data (in the operating manual, product documentation and at the unit itself) is also essential, in order to avoid disturbances that might affect direct or indirect damage to property or injury to persons.

2.2 Safety notice

Non observance of safety instructions can lead to loss of any claim for damages.

Non observance can lead to the following mentioned dangers:

- Failure of important functions of the flow control butterfly valve/plant
- Endangering of persons by electrical or mechanical influences.
- Protection against accidental contact for moving parts may not be removed as long as the flow control butterfly valve is in operation.
- Leakage of dangerous media (e.g. explosive, toxic, hot) must be removed in the way that there is no danger for persons or environment. Laws and regulations must be observed.

2.3 Qualified staff

These are persons who are familiar with erection, assembly, starting, operation and maintenance of the product and who have special qualifications acc. to their activities and functions, e.g.:

- Instruction and obligation to carry out and meet all regional and in-house orders and requirements.
- Education or instruction according to the safety engineering standards in use and maintenance of adequate safety and working protection equipment.
- Training in first aid.

2.4 Unauthorized modification and spare part production

Modification or changes of the flow control butterfly valve are only allowed after agreement of the manufacturer. Original drawings and accessories authorized by the manufacturer are for safety purposes. The use of other parts or unauthorized changes at the flow control butterfly valve by third persons may cancel and abolish the manufacture's liability for resulting consequences.

2.5 Unauthorized operation

Operational reliability of the delivered flow control butterfly valve is only guaranteed in case of determined use in accordance to paragraph 1 of the operating manual. **The application limits mentioned on the type sign may on no account be exceeded.**

2.6 Safety information for the use in explosion-prone areas guideline 2014/34/EU

- The temperature of the medium must not exceed the respective temperature class, and respectively, the respective maximum permitted medium temperature as per operation guidelines.
- If the valve is heated (e.g. heating jacket), care must be taken, that the specified temperature class is kept in the line.
- The valve must be connected to the ground.
In the case most simple this can be realized via pipe screws by means of tooth discs.
Otherwise the connection to the ground must be implemented by other measures e.g. cable links.
- Control valves, electrical and electrical/mechanical drives as well as sensors must undergo a separate conformity check as per ATEX. In doing so the respective safety and explosion protection information in the operation instructions are to taken into special consideration.
- Any modifications whatsoever to the valve are not allowed. The ATEX approval is void with immediate effect if the valve is modified without prior authorisation (even including painting).
- UNI-Geräte GmbH must be consulted before any modifications are made.

Furthermore we point out the guideline ATEX 118a, which include the minimum regulations for the improvement of the health-related situation and the safety of the employees, who might be jeopardized by an explosive atmosphere.

3.0 Handling

3.1 Transport

For any transport works, the generally recognised technical rules and standards as well as rules for prevention of accidents must be observed.

The goods to be transported must be carefully treated. During transport, the flow control butterfly valve must be protected against strokes, impacts or vibration. The coat of lacquer may not be damaged. Transport temperature is -20°C up to $+60^{\circ}\text{C}$.

Never transport the flow control butterfly valve at screwed cable glands, appliance plugs or add-on units. Transport the flow control butterfly valve with a belt below the connection flange (see illustration).



Transport the flow control butterfly valve in a case or on a pallet with smooth base and put it softly on plain floor.

The goods must be checked on completeness and transport damage. See also section 9.0

3.2 Storage

If the flow control butterfly valve is not installed immediately after delivery, it must be stored properly.

- Storage of the flow control butterfly valve with an opening of approximately 15° .
- Storage temperature -20°C up to $+60^{\circ}\text{C}$, dry and clean.
- The lacquering protects against corrosion in neutral dry atmosphere. Do not damage colour.
- In humid rooms, a drying agent or a heating resp. is necessary because of condensation of water.

Requirements according to DIN 7716 (products made of caoutchouc and rubber) must be met.

3.3 Handling before mounting

- In case of valve with protection caps, they must be removed before being mounted!
- Protect against atmospheric influences such as humidity.
- Appropriate treatment protects against damage.

4.0 Product description

The UNI-Geräte MRK (Ro) We/ St/ Pn (R), (MRK We/ St/ Pn.Ü(R)) are control appliances for control without zero adjustment with (without) EG design control certificate and product ID-no. as per gas appliances regulation EU/2016/426.

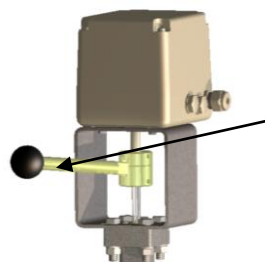
The drawing in section 11.1, shows the version with butterfly plate
11.2, illustration. 1 to illustration 6 show the construction of the flow control butterfly valve.

4.1 Function

- NC normally close MRK (Ro) St/ Pn
- NO normally open MRK (Ro) St/ Pn...**R**

4.2 Technical data

4.2.1 Elektrical actuator (St)



disengageable hand lever (Bn)

Actuator including bracket

Type	Torque Nm	Operating time*		Voltage *			Position controller
		60s/90°	50s/90°	230 VAC	115 VAC	24 VDC	
NK 6010	10	X	-	X	X	n.A.	PMR-NK
NK 6015	15	X	-	X	X	n.A.	PMR-NK
NK 6020	20	X	-	X	X	n.A.	PMR 2-LC
NK 6040	40	X	-	X	X	n.A.	PMR 2-LC
N 1	15	X	-	X	X	X	PMR 3
N 2A	21	X	-	X	X	X	PMR 3
N 3	35	X	-	X	X	X	PMR 3
N 4A	60	X	-	X	X	X	PMR 3
N 5A	80	-	X	X	X	X	PMR 3
N 5S	110	-	X	X	X	X	PMR 3

* further operating times on request

4.2.2 Pneumatic actuator (Pn)



Position controller

Actuator –single effect, including bracket

Type	PGF07	PGF10	PGF15	PGF20	PGF25	PGF30	PGF33
Torque Nm	6	10	22	30	60	90	160
Control pressure	5 – 10bar						

4.3 Marking

The type sign on the solenoid drive has the following information:

- Fabricator
- Valve type, nominal width, pressure and temperature indication, fitting position
- Year of construction/ production no.
- Product ID No.
- Valve class and valve group acc.
- CE-sign and no. of relevant location
- Fluid group and test pressure PT
- Solenoid drive type
- Voltage
- Frequency
- Protection type

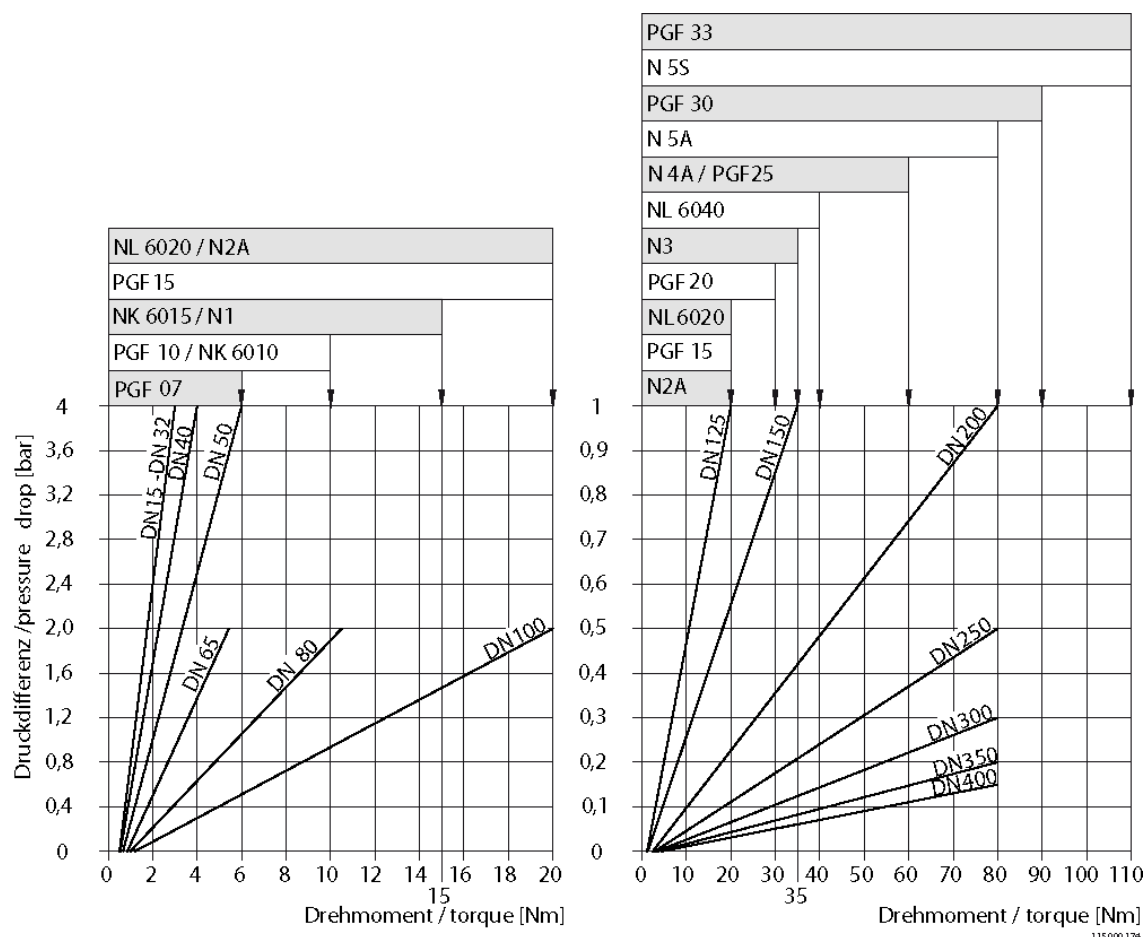
to EU/2016/426
to DIN EN 16678, DIN EN 161
to 2014/68/EU
to 2014/68/EU

Refer also to section 10.0.

4.4 Choice of electric and pneumatic actuators

The total torque value for the butterfly-valve type MRK results from adding the torque valves taken as well from the diagram as from the table „torque spindle sealing“ (see below).

While in operating, the admissible max. differential pressure ($p_e - p_a$) may not be exceeded. See pressure limits from diagram.



Torque spindle sealing

Design	DN15 – DN150	DN200 – DN400
+60°C / +200°C	0 Nm	0 Nm
+550°C	3 Nm	15 Nm
+700°C / +1000°C	6 Nm	30 Nm

Example:

Inlet pressure	$p_e = 0,5\text{bar}$
Outlet pressure	$p_a = 0,2\text{bar}$
Size	DN 250
Design	+700°C

Solution:

Total torque value = 50Nm + 30Nm = 80Nm
Chosen: electric actuator type N 5A

5.0 Installation

5.1 Warning of dangers during installation, operation and maintenance



DANGER!

Safe operation of the flow control butterfly valve can only be guaranteed if it is installed, commissioned and maintained by qualified personnel (see point 2.3 “Qualified staff”) correctly and in observance of the warnings in this operating

manual. Apart from that, the operation safety order and the qualified use of tools and protection equipment must be guaranteed. The operating instructions for the flow control butterfly valve must be observed during all work on or with the flow control butterfly valve. Failure to observe these instructions may result in injury or in damage to the flow control butterfly valve or other installations.

5.2 Installation

Apart from the general installation guidelines, the following points should be observed:



NOTICE!

- The inside of the valve and the pipeline must be free from foreign particles.
- Observe the installation position in relation to the flow direction, see markings on the valve.
- Centre gaskets between the flanges.
- The connecting flanges must be aligned.
- Ensure that none of the components is strained during installation.
- The flow control butterfly valve must not be used as a fixed point; it is supported by the pipework system.
- Protect flow control butterfly valves from soiling, particularly during construction work.
- Thermal expansion of the pipework must be equalized using compensators.

The flow control butterfly valve MRK (Ro) St/ Pn can be installed with a standing-up, however, not with a hanging solenoid drive.



NOTICE!

The operation instructions of the actuator are to be taken into consideration.

6.0 Operation



DANGER!

Before commissioning a new installation or before starting up an installation again after repairs or modifications, ensure:

- The proper completion of all installation and assembly work!
- Commissioning only by “qualified staff” (see point 2.3).
- Installation or repair of existing guards and protection equipment.

6.1 Commissioning

- Before commissioning, check the data on material, pressure, temperature and flow direction with the layout plan of the pipework system.
- Depending on the field of application, the local regulations have to be observed, e.g. the operation safety order.
- Leakage inspection of the installed flow control butterfly valve.

6.2 Shutting down

- Depending on the field of application, the local regulations have to be observed, e.g. the operation safety order.

6.3 Maintenance

Flow control butterfly valves have to be checked at regular intervals for proper function and internal leak tightness. The intervals for regular inspections have to be defined by the operator according to the operating conditions. UNI-Geräte recommends an internal visual inspection once a year.

6.4 Putting back into operation

When putting a flow control butterfly valve back into operation, ensure that all the necessary steps described in section 5.2 (Installation) and section 6.1 (Commissioning) are repeated.

7.0 Troubleshooting

7.1 Detection of defects



DANGER!

Be sure to observe the safety instructions during troubleshooting.

If the malfunctions cannot be remedied using the following **“Troubleshooting plan (7.2)”** please contact the manufacturer.

In the event of faults in the function or operating behaviour of the valve, check whether the installation work was carried out and completed as described in this operating manual.

Depending on the field of application, the operation safety order must be observed.

Check the data on material, pressure, temperature, voltage and flow direction with the layout plan of the pipework system. In addition, check whether the operating conditions correspond to the technical data in the data sheet or on the rating plate.

7.2 Troubleshooting plan

Malfunction	Possible causes	Remedy
MRK (Ro) We		
No flow	Flow control valve does not open	Clean pipes
	Clogging in pipe system	
External leakage	Sealing damaged	See section 8 or exchange flow control valve
MRK (Ro) St/ Pn		
No flow	Flow control valve does not open	Clean pipes Connect actuator, check voltage
	Clogging in pipe system	Check pipe system
	Operating pressure too high	Compare operating pressure with information on nameplate
Low flow	Flow control valve does not open completely	Check setting of limit switch
External leakage	Sealing damaged	See section 8 or exchange flow control valve
Butterfly plate does not close	Foreign matter in pipe	Clean pipes
	Actuator without function	Disconnect actuator, check voltage
	Position actuator without function	Check connection of compressed air
	Existing voltage too high	Check if there is residual voltage see section 4.1



NOTICE!

Observe section 9.0 before all installation and repair work!

Observe section 6.4 when putting the valve back into operation!

8.0 Replace the flow control butterfly valve

In addition to the general installation guidelines and the operation safety order, the following points must also be observed:



DANGER!

- Depressurised pipework system
- Cooled medium
- Emptied installation
- Vent pipework systems containing corrosive, inflammable, aggressive or toxic media

- Have dismantling work carried out only by qualified staff (see point 2.3)

In case of flow control valves MRK (Ro) St/ Pn disconnect actuator. De-install actuator with console from the flow control valve.

MRK (Ro) We / MRK (Ro) We..Ü200

MRK We...Ü550

MRK We...Ü700(1000)

Replace the complete flow control butterfly (We) valves.

9.0 Warranty

Scope and period of the warranty is specified in the edition of the "General Terms of Business of the UNI-Geräte E. Mangelmann Elektrotechnische Fabrik GmbH" valid at the time of delivery or else in the purchase agreement.

We warranty that the valve is free from faults in line with the state of the art and for the confirmed field of application.

No warranty claims will be accepted for damage resulting from improper use or failure to observe these operating and installation instructions, the statutory accident prevention regulations, the EN, DIN and VDE standards and other codes and regulations.

Warranty claims will also not be accepted for damage occurring during operation due to operating conditions deviating from those specified in the data sheet or in other agreements.

Justified complaints will be remedied by reworking by us or specialist companies authorised by us.

Claims going beyond the scope of the warranty will not be accepted. The customer shall have no right to the supply of a replacement valve.

Maintenance work, installation of parts from other manufacturers, any modifications to the design and natural wear are not covered by the warranty.

Transport damage must be reported not to us but **without delay** to your responsible goods handling company, the railway company or the shipping agent as otherwise all claims for damages against these companies will be voided.

10.0 Explanations on Codes and Directives

The Commission of the European Union has laid down common directives for the free trading of goods within the Union specifying minimum requirements for safety and health protection. The CE symbol confirms that products comply with the EU directives, i.e. in conformity with the relevant, in particular harmonised standards. Regulation EU/2016/426 and Directive 2014/68/EU are of relevance for the gas valve (mechanical part).

Notes on Regulation EU/2016/426 (Gas Appliances Regulation, GAR):

The valves have been developed, manufactured and tested in accordance with harmonised standard DIN EN 161 and DIN EN 16678) and comply with the relevant requirements of the Union Regulation EU/2016/426. Unless otherwise stated separately, this has been confirmed by a type test.

Notes on Directive 2014/68/EU (Pressure Equipment Directive, DGRL):

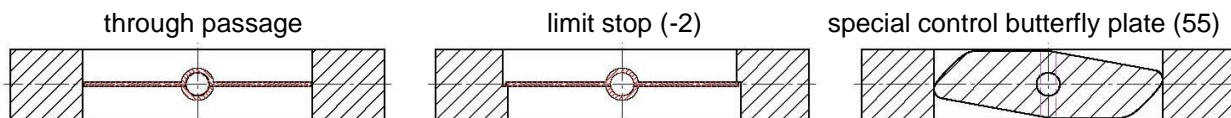
It has been confirmed that the quality assurance in design control, manufacture and final acceptance of the manufacturer, UNI-Geräte E. Mangelmann Elektrotechnische Fabrik GmbH, satisfy the requirements of 2014/68/EU Article 14 Module H. The gas solenoid valves comply with the fundamental requirements of Directive 2014/68/EU. Valves in accordance with Article 1 Paragraph 2, f, v or Article 4 paragraph 3 are not allowed to have the CE Mark in accordance with Article 18.

Note concerning ex-guideline 2014/34/EU (explosion guideline ATEX):

The product is not subject to guideline 2014/34/EU, since due to the loads occurring during practical operation, there is no effective source of ignition even in case of an error case to be assumed. This also applies to spring loaded components in gas-filled rooms. In case of electric drives, sensors or other electric components the application as per 2014/34/EU is to be checked separately.

11.0 Drawing

11.1 Design butterfly plate



11.2 Fig.1 MRK (Ro) We

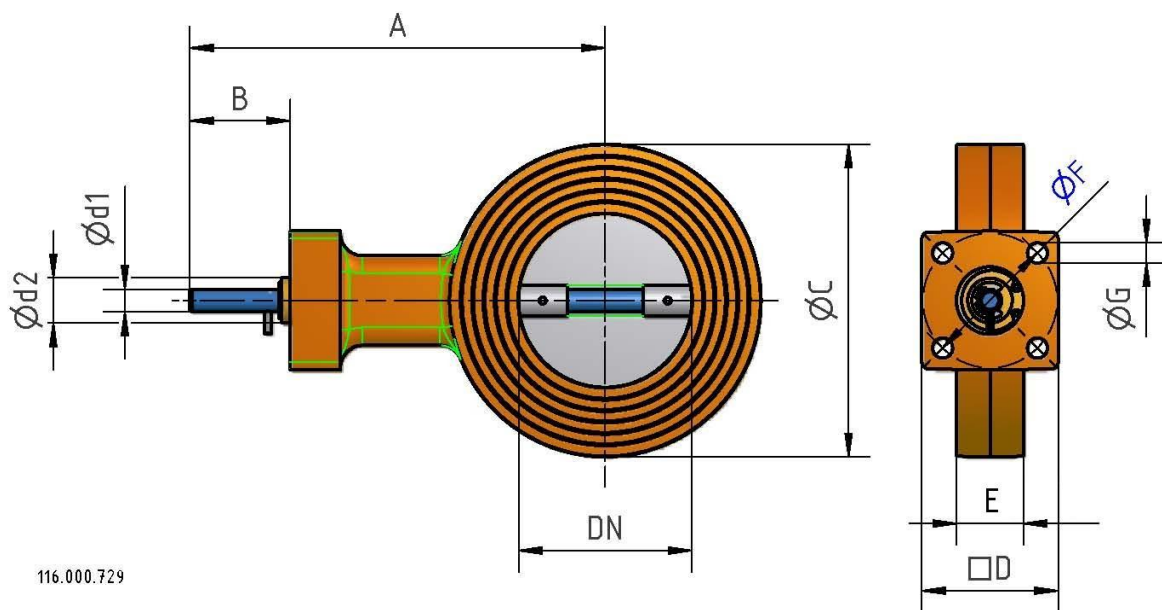


Fig.2 MRK We Ü700(1000)

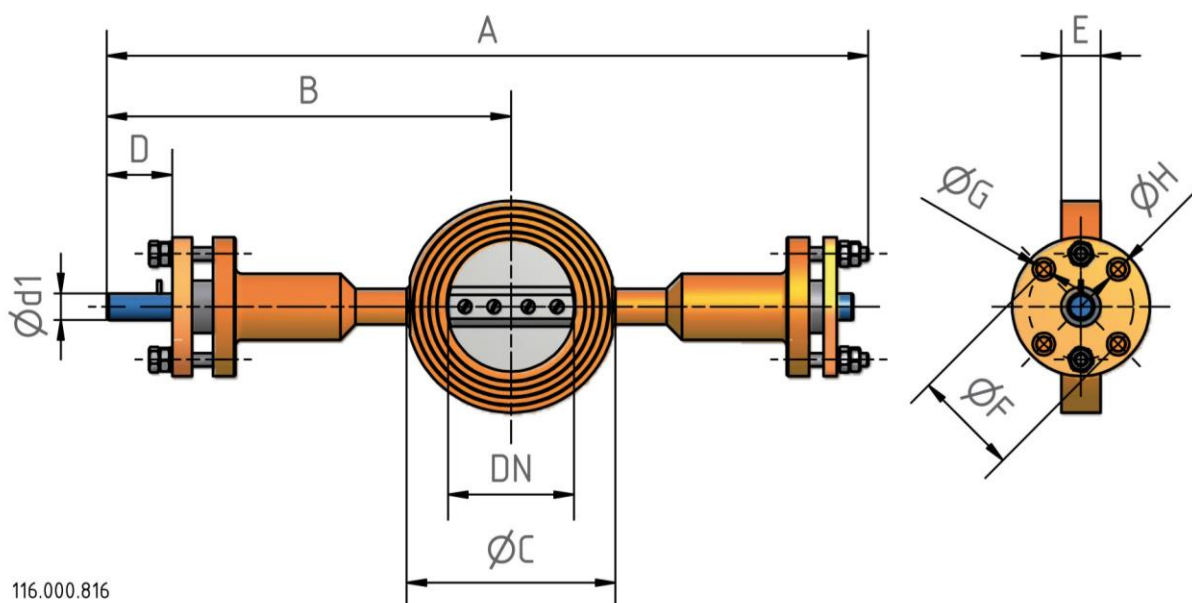


Fig.3 MRK (Ro) We...B...

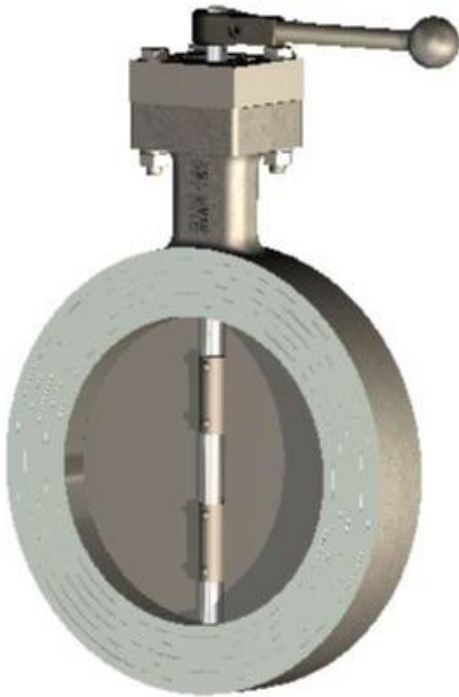


Fig.4 MRK (Ro) Ha...



Fig.5 MRK (Ro) St



Fig.6 MRK (Ro) Pn



Electric, or respectively, pneumatic actuator for installation at MRK (Ro) We

11.3 Dimension MRK (Ro) We ... (R)

Type	DN	A	B	ØC	D	Ød1	Ød2	E	ØF	ØG	Gewicht in kg
MRK (Ro) We 5N..	15	157	45	45	60	10	20	25	60	9	1,0
MRK (Ro) We 7N..	20	161	45	58	60	10	20	25	60	9	1,1
MRK (Ro) We 10/12N..	25/32	163	45	70	60	10	20	25	60	9	1,5
MRK (Ro) We 15N..	40	166	45	90	60	10	20	25	60	9	1,8
MRK (Ro) We 20N..	50	171	45	104	60	10	20	25	60	9	2,0
MRK (Ro) We 25N..	65	178	45	124	60	10	20	25	60	9	2,4
MRK (Ro) We 30N..	80	186	45	139	60	10	20	30	60	9	3,1
MRK (Ro) We 100..	100	196	45	161	60	10	20	30	60	9	3,7
MRK (Ro) We 125..	125	208	45	191	60	10	20	35	60	9	5,2
MRK (Ro) We 150..	150	221	45	214	60	10	20	35	60	9	5,6
MRK (Ro) We 200..	200	259	50	270	80	20	25	40	80	11	12,0
MRK (Ro) We 250..	250	284	50	320	80	20	25	40	80	11	13,0
MRK (Ro) We 300..	300	309	50	370	80	20	25	45	80	11	15,5
MRK (Ro) We 350..	350	359	50	428	80	20	25	45	80	11	27,0
MRK (Ro) We 400..	400	379	50	465	80	20	34	50	80	11	38,0

Dimension MRK We ..Ü700(1000).....(R)

Type	DN	A	B	ØC	D	Ød1	E	ØF	ØG	ØH	Gewicht in kg
MRK We 5/7N.Ü700.	15/20	470	252	50	50	20	25	80	11	17	7,1
MRK We 10/12N.Ü700.	25/32	490	262	70	50	20	25	80	11	17	7,4
MRK We 15N.Ü700.	40	510	272	90	50	20	25	80	11	17	7,8
MRK We 20N.Ü700.	50	524	280	105	50	20	25	80	11	17	8,1
MRK We 25N.Ü700.	65	544	290	125	50	20	25	80	11	17	8,6
MRK We 30N.Ü700.	80	563	300	140	50	20	30	80	11	17	9,3
MRK We 100.Ü700.	100	580	308	160	50	20	30	80	11	17	10,5
MRK We 125.Ü700.	125	584	310	190	50	20	35	80	11	17	12,5
MRK We 150.Ü700.	150	610	322	215	50	20	35	80	11	17	13,5
MRK We 200.Ü700.	200	664	350	270	50	20	40	80	11	17	17,5
MRK We 250.Ü700.	250	714	384	320	50	20	40	80	11	17	18,5
MRK We 300.Ü700.	300	764	400	370	50	20	45	80	11	17	22,0
MRK We 350.Ü700.	350	824	430	428	50	20	45	80	11	17	30,0
MRK We 400.Ü700.	400	864	450	465	50	20	50	80	11	17	40,0

12.0 Declaration of Conformity

UNI-Geräte E. Mangelmann
Elektrotechnische Fabrik GmbH
Holtumsweg 13
D – 47652 Weeze



EU

Konformitätserklärung Declaration of Conformity


Produkt / Product	Stellgerät zum Regeln ohne Nullabschluss / Control actuator without zero shut off		
Handelsbezeichnung / Trade Mark	Mengenregelklappe / Flow control butterfly valve		
Baureihe / Series	...MRK...		
Nennweiten / Size	DN 15 ^{a)} / 20 ^{a)} / 25 ^{a)} / 32 ^{a);b)} / 40 ^{a);b)} / 50 ^{a);b)} / 65 ^{a);b)} / 80 ^{a);b)} / 100 ^{a);b)} / 125 ^{a);b)} / 150 ^{a);b)} / 200 ^{a);b)} / 250 ^{a);b)} / 300 ^{a);b)} / 350 ^{a);b)} / 400 ^{a);b)}		
Druckstufe / Pressure Stage	PN 10 ^{b)} / 16 ^{a)}		
Fluidgruppe / Fluid Group	Brennbare Gase, FL. Gr.1 / Flammable gases, FL. Gr.1		
EU - Richtlinien / EU - Directives	EU/2016/426 ^{a)} Gasgeräteverordnung / Gas Appliance Regulation 2014/68/EU ^{b)} Druckgeräterichtlinie / Pressure Equipment Directive		
Konformitätsbewertungsverfahren / Conformity Assessment Procedure	Modul B + D - EU/2016/426 ^{a)} ; Modul H - 2014/68/EU ^{b)}		
Angewandte technische Spezifikation / Applied Technical Specification	^{a)} DIN EN 16678:2016-02; DIN EN 13611:2016-09; ^{b)} DIN EN 16668:2018-05; DIN EN 12266:2012-04		
Baumusterprüfung / Type Examination	CE-0085AR0408 ^{a)} DVGW CERT GmbH Josef-Wirmer-Str. 1-3 D-53123 Bonn Zertifizierungsstelle / Notified Body 0085	EU/2016/426	Modul B
Überwachungsverfahren / Surveillance Procedure	SE-0085BL7038 ^{a)} DVGW CERT GmbH Josef-Wirmer-Str. 1-3 D-53123 Bonn Zertifizierungsstelle / Notified Body 0085	EU/2016/426	Modul D
	CE-0062-PED-H-UGM 001-23-DEU ^{b)} Bureau Veritas Services SAS 8 Cours du Triangle 92800 PUTEAUX – LA DEFENSE Zertifizierungsstelle / Notified Body 0062	2014/68/EU	Modul H
Kennzeichnung / Marking	CE - 0085 ^{a)} 0062 ^{b)} oder/and CE - 0085 ^{a)} oder/and CE - 0062 ^{b)}		

Das Unternehmen UNI Geräte E. Mangelmann Elektrotechnische Fabrik GmbH erklärt in alleiniger Verantwortung, dass die o.a. Baureihe die grundsätzlichen Anforderungen der aufgeführten Richtlinien und Normen erfüllt.

UNI Geräte E. Mangelmann Elektrotechnische Fabrik GmbH confirms under the sole responsibility of the manufacturer, that the basic requirements of the above specified directives and standards are fulfilled.

Weeze, 24.01.2023

Ort und Datum / place and date


Geschäftsführer / Managing Director
Norbert Schneider

^{a); b)} Anwendung in Abhängigkeit von Nennweite und / oder Druckstufe: / Application depending on size and / or pressure stage:
DN ≤ 25 und / oder PS ≤ 0,5bar siehe Diagramm 6, oder Kat.1 + erfasst von EU/2016/426, fallen nicht in den Anwendungsbereich der 2014/68/EU

DN ≤ 25 and / or PS ≤ 0,5bar see diagram 6, or Kat.1 + under the scope of EU/2016/426, are not covered by the scope of the EU-Directive 2014/68/EU
250.100.008-05

UNI-Geräte E. Mangelmann
Elektrotechnische Fabrik GmbH
Holtumsweg 13
D – 47652 Weeze



UK Declaration of Conformity UK Konformitätserklärung

We / Wir:

UNI-Geräte E. Mangelmann
Elektronische Fabrik GMBH
Holtumsweg 13
D – 47652 Weeze

Declare that / Erklären hiermit:

Product / Produkt

Functional Control – without zero obturation
Stellgerät – ohne Nullabschluss

Trade Mark / Handelsbezeichnung

Flow control butterfly valve / Mengenregelklappe

Series / Baureihe

MRK...

Size / Nennweiten

DN 15 / 20 / 25 / 32 / 40 / 50 / 65 / 80 / 100 / 125 / 150 / 200 / 250 / 300 /
350 / 400

Pressure Stage / Druckstufe

PN 16

Fluid Group / Fluidgruppe

Gas type of the 1st, 2nd and 3rd family gases
Gasart der 1., 2. und 3. Gasfamilie

Satisfies the essential requirements of the Regulation 2016/426 on gas appliances as brought into UK law and amended and is manufactured in accordance with the UK designated standards:

Erfüllt die grundlegenden Anforderungen der Verordnung 2016/426 für Gasgeräte in der im Vereinigten Königreich geltenden und geänderten Fassung und wird in Übereinstimmung mit den im VK festgelegten Normen hergestellt:

Standards Numbers / Normen Nummern: BS EN 161:2011+A3:2013, BS EN 16678:2015

BSI has performed the following conformity assessment procedures specified in the Regulation 2016/426 on gas appliances as brought into UK law and amended:

Das BSI hat die folgenden Konformitätsbewertungsverfahren durchgeführt, die in der Verordnung 2016/426 für Gasgeräte, wie sie in britisches Recht umgesetzt und geändert wurde, festgelegt sind:

Annex III Module B (Type Examination) and issued the Certificates below:

UKCA Module B certificate: (Certificate No.) UKCA 772967

Anhang III Modul B (Baumusterprüfung) geprüft und die nachstehenden Bescheinigungen ausgestellt:

UKCA-Modul-B-Zertifikat: (Zertifikats-Nr.) UKCA 772967

Annex III Module D (Conformity to Type based on Quality Assurance of the Production Process) and issued the Certificates below:

UKCA Module D certificate: (Certificate No.) UKCA 772905

Anhang III Modul D (Konformität mit der Bauart auf der Grundlage der Qualitätssicherung des Produktionsprozesses) und stellte die nachstehenden Zertifikate aus:

UKCA-Modul-D-Zertifikat: (Zertifikats-Nr.) UKCA 772905

Approved Body / Zugelassene Stelle:

BSI Assurance UK Limited (Approved Body No. 0086)

Address / Adresse:

Kitemark Court, Davy Avenue,
Knowlhill Milton Keynes MK5 8PP UK.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Diese Konformitätserklärung wird unter der alleinigen Verantwortung des Herstellers ausgestellt.

Name / Name:

Norbert Schneider

Title / Position / Funktion:

Dipl. Ing. / Managing Director / Geschäftsführer

Place & date of issue /

D – 47652 Weeze, 22.02.2023

Ort und Datum der Ausstellung:

Signature / Unterschrift:



250.100.581-00