



Kieback&Peter

OPERATING INSTRUCTIONS
MD15-Q SMALL ACTUATOR
FOR RBQ15..32 2-WAY
COMBO VALVES

This document replaces all versions with an older release date. This version is not updated automatically. Subject to change.

The original operating instructions were composed in German.
Operating instructions in other languages have been translated from German.

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Kieback&Peter GmbH & Co. KG
Tempelhofer Weg 50, 12347 Berlin, Germany
Phone: +49 30 60095-0, Fax: +49 30 60095-164
info@kieback-peter.de, www.kieback-peter.de

IMPORTANT

READ CAREFULLY BEFORE USE

RETAIN FOR LATER REFERENCE

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1 Notes on these operating instructions



NOTE

If you have any questions that cannot be clarified with these operating instructions, you can obtain further information from your Kieback&Peter contact person.

1.1 Validity of the operating instructions

These operating instructions are part of the MD15-Q actuator for RBQ15..32MD15-Q 2-way combo valves and are valid solely for this actuator and these valves.

To make the document easier to read, the MD15-Q actuator is referred to in the text below as the “actuator”. The RBQ15..32MD15-Q 2-way combo valves are referred to in the text as the “valve”.

1.2 Display elements



NOTE

Notes provide you with important information.

You can find the following display elements in these instructions:

- List point
- ▶ Step or measure for avoiding danger

2 Safety

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2.1 Explanation of safety instructions and warnings

The basic safety information includes general instructions for the safe use of the actuator with valve or instructions to maintain its safe condition.

Action-related warnings of residual risks are indicated prior to performing dangerous actions.

Presentation and structure of warnings

The warnings are action-related and are structured as follows.



CAUTION

Type and source of danger!

Potential consequences when the danger occurs or the warning is not observed.

▶ Measures to avoid the danger.

Warnings are classified according to the severity of the hazard. The hazard levels and their corresponding signal words and warning symbols are described below:



WARNING

Indicates a hazard of medium risk which can result in **death or serious bodily injury** if not avoided.



CAUTION

Indicates a hazard of low risk which can result in **minor or medium bodily injury** if not avoided.



CAUTION

Indicates a hazard which can result in **material damage or malfunctions** if not avoided.

2.2 Basic safety instructions

Safety in the workplace depends on the attention, care and rationality of all the persons involved. To prevent damage and injury, read and follow the safety instructions below, the safety instructions in the documentation on using the components and the applicable local regulations.

Sharp edges and corners

There is a risk of skin abrasions and cutting injuries due to sharp edges and corners, such as those on cast iron bodies and the outer threads of the valves and individual parts of the actuators.

- ▶ Proceed with care.
- ▶ Wear protective gloves.

Toppling, falling and ejected parts

Severe injury and substantial damage to property due to:

- Toppling or falling valve or actuator parts
- Ejected parts in the event of impermissible pressure increases (bursting components)
- Impermissible drop in pressure (e.g. when using tensioning devices)
- ▶ Secure the protected area against access by unauthorized persons.
- ▶ Secure parts to prevent toppling and falling.
- ▶ Do not exceed the maximum valve operating pressure.

Pressurized liquids

There is a risk of severe burns and injuries caused by liquid jets due to incorrect connections.

- ▶ Do not exceed the maximum valve operating pressure.
- ▶ Check all connections before filling the system.
- ▶ Secure the protected area against access by unauthorized persons.

Hot and cold surfaces

There is a risk of severe burns or hypothermia from contact with hot or cold surfaces on the valves and pipelines.

- ▶ Before starting work, wait until the temperature of the pipelines and valves is between roughly 10 to 40 °C.

Musculoskeletal disorders

There is a risk of severe musculoskeletal disorders (e.g. back injuries) due to incorrect posture or excessive exertion (e.g. due to weight loads).

- ▶ Proceed with care.

2.3 Responsibilities of the Operator

The actuator and valve must be operated only when in a technically sound and safe condition. The operator must observe the following points:

- Ensure that the operating instructions are available to all persons who perform work on the actuator and valve.
- Ensure that all persons have read and understood the operating instructions before working on the actuator and valve.
- Ensure the required ambient conditions and clearances at the mounting location.
- Ensure that mounting, installation and commissioning are carried out only by a fitter or specialist electrician, according to the tasks. See chapter "Who is permitted to perform which tasks?" on page 8
- Inform your Kieback&Peter contact person in the event of damage to the actuator and/or valve.
- Ensure that personnel receive the personal protective equipment (PPE) stipulated in the specific country and use this equipment at all times.

2.4 Qualification of personnel

Fitter

The fitter is familiar with heating, ventilation and air conditioning systems. Based on his or her technical training and appropriate knowledge and experience, he or she is familiar with the described actuator and valve. The fitter knows the applicable regulations, can assess his or her assigned tasks and identify potential dangers.

Electrical specialist

The electrical specialist is a person who is familiar with the described actuator. Based on his or her professional training, knowledge and experience, he or she has a very good understanding of the fields of cable, wire and laying systems and a good knowledge of the areas of electrical engineering and electrical machines and actuators. The electrical specialist knows the applicable regulations, can assess work assigned to him or her and identify possible dangers.

Who is permitted to perform which tasks?

Task	Fitter	Electrical specialist
Mounting		
Assembling the valve	x	
Assembling the actuator	x	
Commissioning		
Electrical connection		x
Adapting actuator functions		x
Faults and remedial measures		
Searching for and correcting faults	x	x
Decommissioning, disassembly and disposal		
Taking the actuator out of operation		x
Disassembling the actuator	x	
Disassembling the valve	x	
Disposal	x	

2.5 Intended use

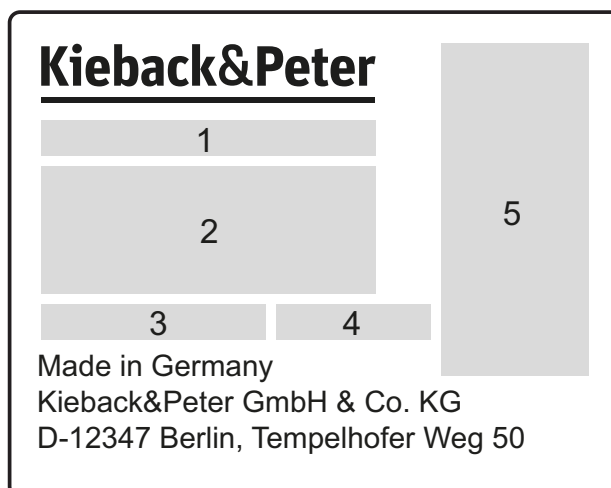
- The actuator with valve is designed to control the flow or precise mixture of liquids for heating, ventilation and air conditioning systems.
- Operate the actuator only with one of the specified valves and the original valve accessories.
- The actuator with valve is intended only for industrial and commercial use; never operate the actuator with valve in the private sphere or in households.
- Only operate the actuator with valve indoors.
- Maintain the specified ambient conditions during operation, transport and storage.
- Use a suitable operating medium.
- Only operate the actuator with valve in its original condition. Modifications to the actuator and/or valve may result in unforeseeable dangers and are thus prohibited.

3 Description

The MD15-Q is an actuator for continuous control systems for zone post-treatment devices for heating, ventilation and air conditioning systems. It is used with an RBQ15..32 2-way combo valve with automatic differential pressure-based flow rate control (hydraulic balancing).

3.1 Product identification

The type plate is attached on the underside of the actuator housing.



- 1 Item number
- 2 Technical data (nominal voltage, power consumption, etc.)
- 3 Serial number/revision number
- 4 Year and month of construction (mm/yyyy)
- 5 Symbols, graphics (CE marks, protection class, etc.)

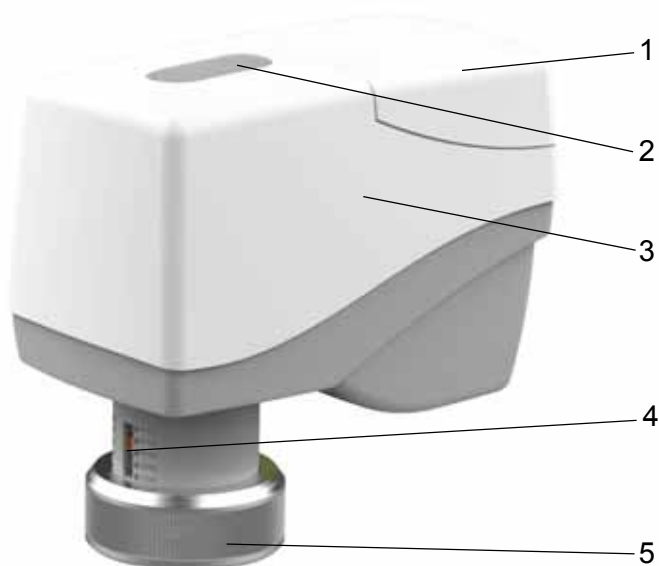


NOTE

Information on the type of valve can be found on the cast body of the valve.

3.2 Actuator

3.2.1 Structure



- 1 Inspection cover
- 2 Plug/port for manual adjustment
- 3 Housing
- 4 Position indicator
- 5 Union nut



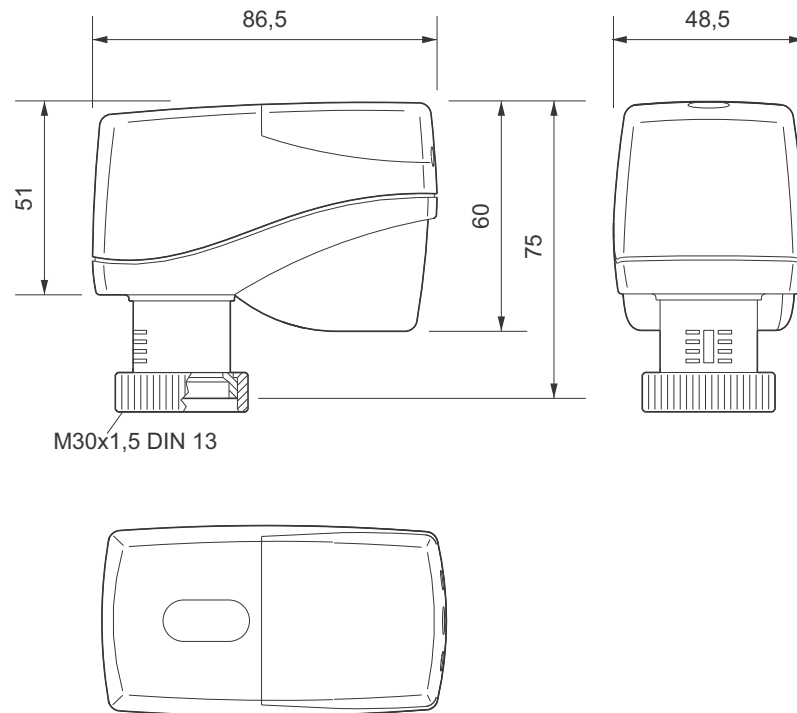
- 6 Manual adjustment (only when disconnected from the power supply)

The receptacle for a hex key (4 mm) is located under the plug.
The hex key is not included in the scope of delivery.

3.2.2 Technical specifications

Nominal voltage	AC 24 V $\pm$ 10%; 50/60 Hz; DC 24 V $\pm$ 10%
Dimensioning	3.7 VA (AC 24 V); 1.7 W (DC 24 V)
Power consumption	Nominal: 2.5 VA (AC 24 V); 1.3 W (DC 24 V) Sleep mode: 0.7 VA (AC); 0.3 W (DC)
Switch-on current	Max. 8 A, <1 ms; <0.064 A ² s
Control	Continuous control DC 0(2) to 10 V; < 0.5 mA, invertible
Connection	Built-in cable: 1.5 m; 3 x 0.5 mm ²
Sound power	< 23 dB (A)
Positioning stroke	4 mm
Positioning time	22 s/mm
Positioning force	Nominal 150 N
Permitted medium temperature in the valve	0..+120 °C
Ambient temperature	0..50 °C
Ambient humidity	0..85% r.h., non-condensing
Overvoltage category	III
Level of contamination	2
Degree of protection	IP54 only with the appropriate installation position (see assembly section)
Protection class	III
Installation position	360°
Maintenance	Maintenance-free
Weight	250 g

Dimensions



Other properties

Display	LED display for operating voltage and status
Position indicator	Stroke range scale
Manual adjustment	Only when disconnected from the power supply
	Socket for hexagon key under the cover plug on the actuator cover, 4 mm key socket
Valve exercise	Can be switched on
Characteristic curve compensation	Can be set based on the default setting of the valve

3.3 Two-way combo valves RBQ15..32

Combo valves for automatic control of the flow direction, independent of the differential pressure (hydraulic balancing).

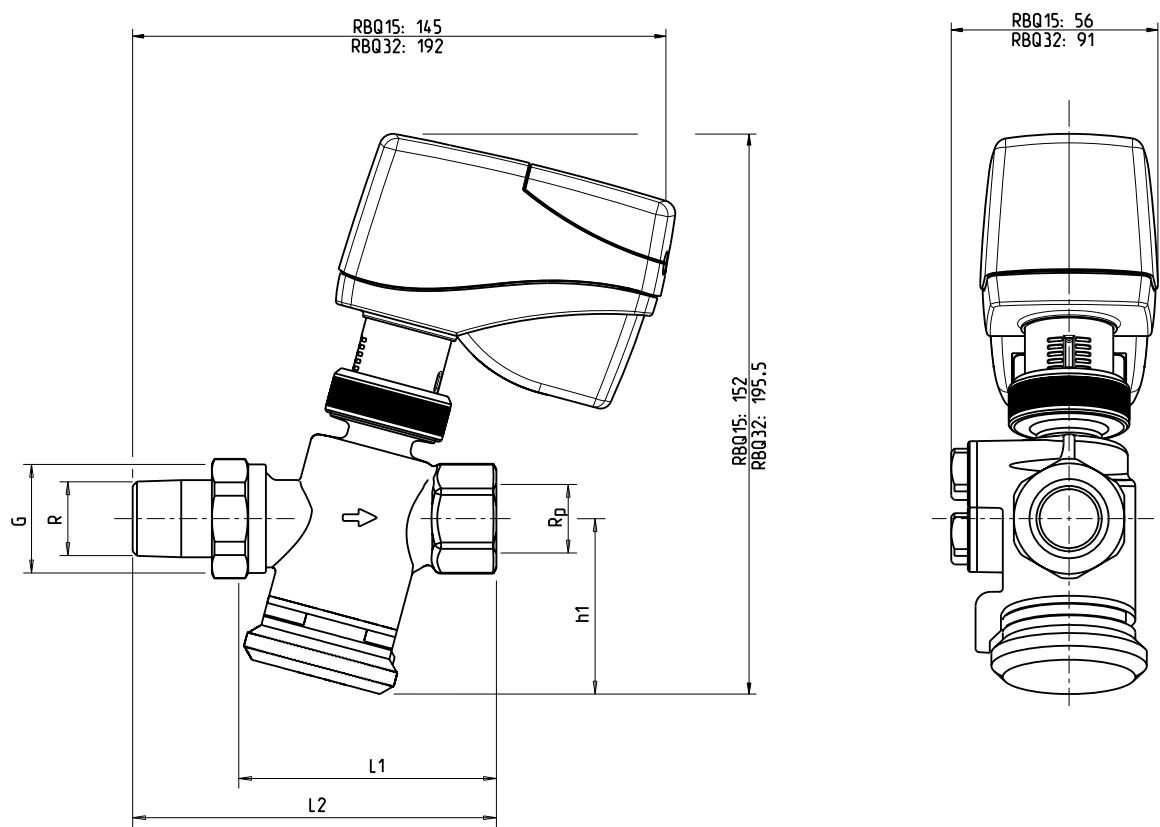
3.3.1 Types

Type	DN	PN	Volume flow range [l/h]	Control range [kPa]	Connection [inches]	Weight [kg]
RBQ15/0.5	15	16	30..210	20..400	G 3/4; Rp 1/2	0.45
RBQ15/1.1	15	16	90..450	20..400	G 3/4; Rp 1/2	0.45
RBQ15/1.8	15	16	150..1050	20..400	G 3/4; Rp 1/2	0.45
RBQ20/1.8	20	16	150..1050	20..400	G 1; Rp 3/4	0.52
RBQ20/2.5	20	16	180..1300	15..400	G 1; Rp 3/4	0.73
RBQ25/4.0	25	16	300..2000	15..400	G 1 1/4; Rp 1	1.8
RBQ32/6.0	32	16	600..3600	15..400	G 1 3/4; Rp 1/4	1.9

3.3.2 Technical Data

Operating temperature	RBQ15..32, -10 to +120 °C
Max. operating pressure	16 bar (1600 kPa)
Max. differential pressure	4 bar (400 kPa)
Leak rate	0.01% from Kvs
Nominal stroke	DN15, DN20 (150 to 1050 l/h): 2.8 mm DN20 (180 to 1300 l/h): 3.5 mm DN25, DN32: 4 mm
Medium	Water or water-propylene glycol mixtures and water-ethylene glycol mixtures (max. 50%, ph value 6.5 to 10)
Housing	DN15 to DN32: dezincification resistant brass
Seals	Made of EPDM or PTFE

3.3.3 Dimensions

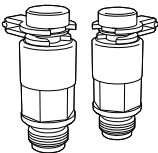


DN	L1 [mm]	L2 [mm]	h1 [mm]	G	R [Inch]	Rp [Inch]	Δp [bar]
15	70	98.5	48	G 3/4	R 1/2	Rp 1/2	0.2 to 4
20 (150 to 1050 l/h)	74	106	48	G 1	R 3/4	Rp 3/4	0.2 to 4
20 (130 to 1300 l/h)	85.5	117.5	54.5	G 1	R 3/4	Rp 3/4	0.15 to 4
25	118	154	79	G 1 1/4	R 1	Rp 1	0.15 to 4
32	124	165	79	G 1 3/4	R 1 1/4	Rp 1 1/4	0.15 to 4

3.3.4 Accessories

Not included in the scope of delivery.

Z221 Measuring valves



4 Scope of delivery, transportation and storage

Scope of delivery

The actuator can be supplied in different combinations with the valve and valve accessories or as a standalone product.

The maximum scope of delivery includes:

- MD15-Q actuator
- RBQ15..32 combo valve
- “MD15-Q Actuator for RBQ15..32 2-Way Combo Valves” operating instructions
- MD15-Q mounting instructions

Transportation

- ▶ Transport the actuator, valve and valve accessories in suitable packaging.
- ▶ Avoid shocks and mechanical damage.
- ▶ Do not throw the product or allow it to fall.
- ▶ Maintain the specified ambient temperature of -25..+60 °C and ambient humidity of 0..85% r.h., non-condensing.

Storage

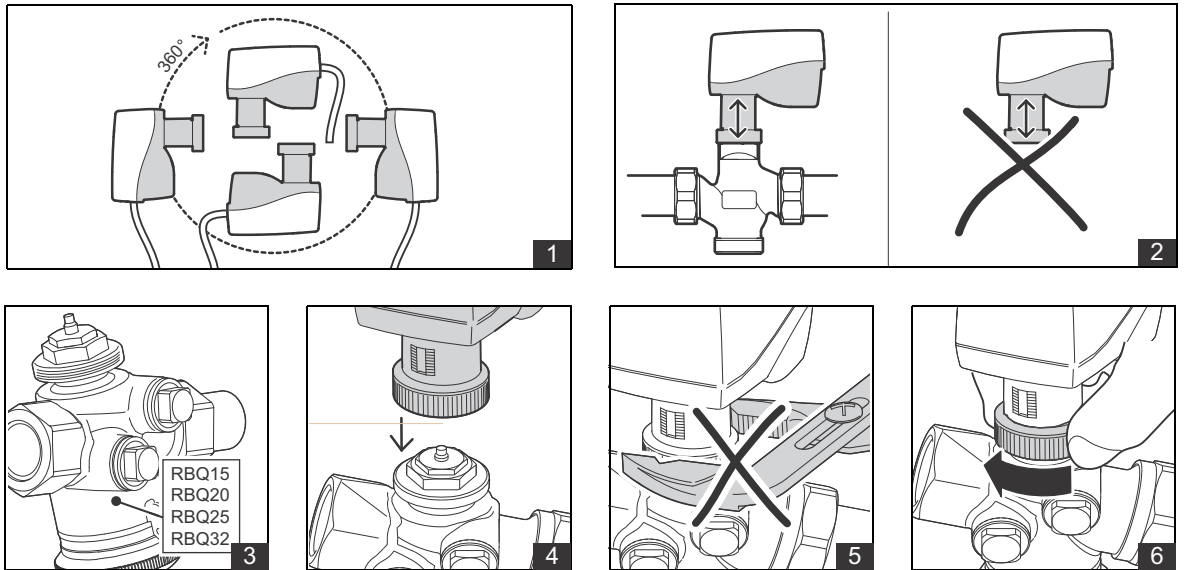
- ▶ Store the actuator, valve and valve accessories only indoors.
- ▶ Avoid shocks and mechanical damage.
- ▶ Maintain the specified ambient temperature of -20..+60 °C and ambient humidity of 0..85% r.h., non-condensing.

5 Mounting

5.1 Mounting conditions

- Any protective caps on the valve gates should be removed before assembling the valves.
- No grease or oil may be used during assembly because these could destroy the valve seals.
- The pipeline system and the interior of the fitting must be free of foreign objects, particles of dirt, and grease and oil residues. Rinse them out if necessary.
- There must be no tension between the fixture and the pipeline connection.
- To avoid eddy formations in the valve body, the valve should be installed in a straight section of the pipe. A distance of 10 times the nominal diameter is recommended between the valve flange and manifold or other similar parts.
- The installation location is to be selected so that the ambient temperature at the actuator is kept between 0 °C and +50 °C.
- If the operating medium is contaminated, a strainer must be installed in the supply pipe. For maintenance purposes, we recommend to install shut-off valves both upstream and downstream of the valve or plant section.
- During installation, observe the maximum permitted differential pressure Δp .
- Note that a free space of 150 mm above the valve is required for mounting the actuator and removing the connection cover.
- Observe the direction of flow arrow on the valve body. Inverting the direction of flow impairs control behavior.
- Differential pressure must not occur on the valve body. Close the gate valve and turn off pumps.
- Screw the valve connections onto the pipelines.

5.2 Mount the actuator on a RBQ15..32 valve

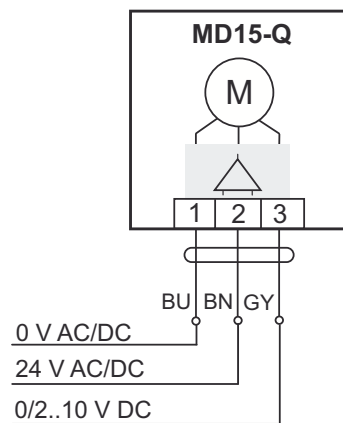


- ▶ **1** Any actuator installation positions in which the cabling runs downward are permitted.
- ▶ **2** CAUTION! Do not operate the actuator without a valve.
- ▶ **4** Set the actuator onto the threaded connection on the valve.
- ▶ **5** CAUTION! Do not use a pipe wrench. This may damage the actuator and valve.
- ▶ **6** Tighten the union nut by hand.

6 Connecting the actuator and putting it into operation

6.1 Wiring diagram

Continuous control

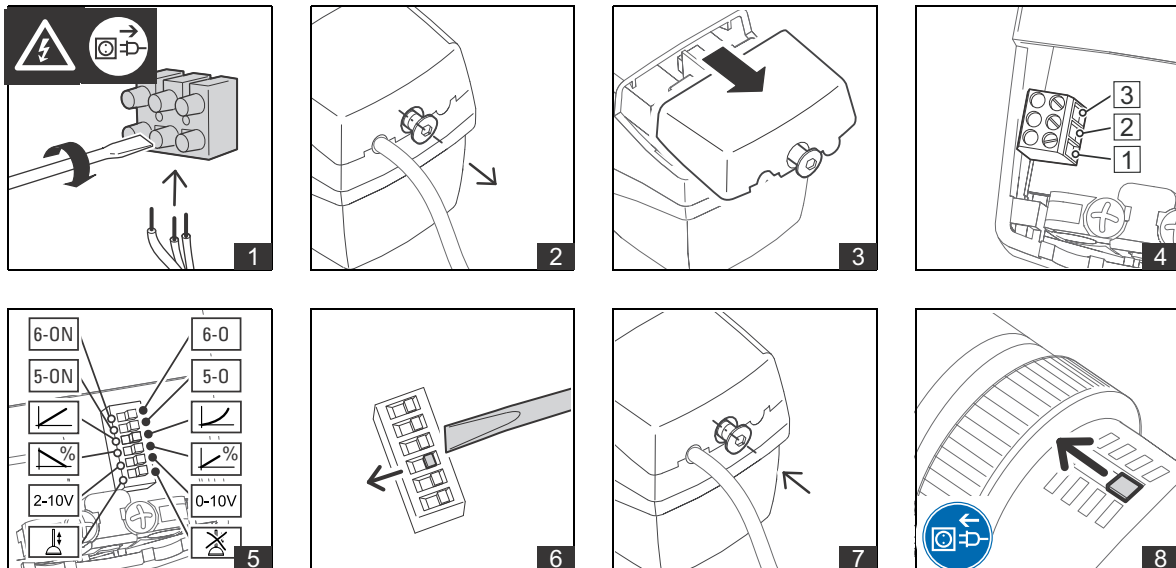


6.2 Commissioning



CAUTION

Temporary peak loads of up to 8 A may occur when switching on the actuator. Ensure suitability of switching components (e.g. controller connection) to ensure proper functioning and to avoid malfunctions and damage.



- ▶ **1** Carry out the electrical connection of the actuator as a fixed installation.
- ▶ **2 3** Remove the inspection cover.
- ▶ **4** Refer to the circuit diagram.
- ▶ **5 6** Adapt the actuator functions with switches 1 to 6.
- ▶ **7** Mount the inspection cover.
- ▶ **8** Automatic initialization takes place once the supply voltage has been switched on for the first time. The actuator first travels to the upper end position and then to the lower end position. The actuator will not respond to the control signal until the initialization run is complete.



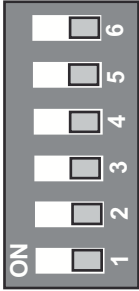
NOTE

This initialization can be performed manually by switching switches 4, 5 or 6 back and forth.

6.3 Adapting actuator functions

Valve Functions

The valve functions are adjusted with switches (A) 1 to 6 under the connection cover.

Function Switch position ON	Schalter (A)	Function Switch position OFF
RBQxx volume flow range (ON)		RBQxx volume flow range (OFF)
RBQxx volume flow range (ON)		RBQxx volume flow range (OFF)
Linear characteristic curve 		Equal-percentage characteristic curve 
Actuating direction: 100..0% 		Actuating direction: 0..100% 
2..10 V DC		0..10 V DC
Valve block protection feature on		Valve block protection feature off

Switch 1: valve exercise

If plant specifications permit, the valve exercise feature may be activated during commissioning.

Valve exercise prevents the cone from jamming when the valve is not moved for a long period of inactivity, e.g. for heating systems during the summer.

If valve exercise is activated, the valve cone is raised for a few seconds when there is no movement for 21 days.

Default setting: off

Switch 2: sets the control range for the continuous actuating signal to DC 0..10 V or DC 2..10 V

Default setting: DC 0..10 V

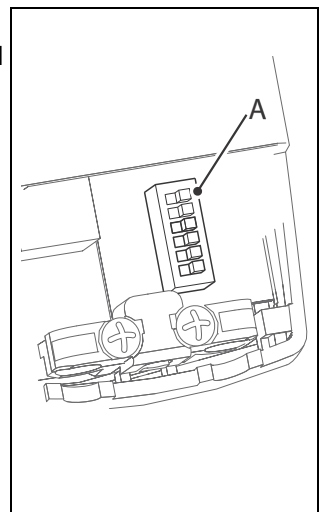
Switch 3: sets the actuating direction and position feedback for a control voltage of DC 10 V to “valve open”  or “valve closed” .

Default setting: 0..100%; “valve open” 

Switch 4: Adjustment of the valve characteristic curve linear  or equal percentage 

Default setting:

Equal-percentage characteristic curve 



Switch 5 and switch 6

For adjusting the MD15-Q to the default setting of the volume flow range of the RBQ15..32 according to the following table:

	Volume flow range [l/h]	Switch 5	Switch 6
RBQ15/0,5 30..210 l/h	30..90	OFF	ON
	91..210	OFF	OFF
RBQ15/1,1 90..450 l/h	90..150	OFF	ON
	151..450	OFF	OFF
RBQ15/1,8 150..1050 l/h	150..300	OFF	ON
	301..1050	OFF	OFF
RBQ20/1,8 150..1050 l/h	150..300	OFF	ON
	301..1050	OFF	OFF
RBQ20/2,5 180..1300 l/h	180..400	OFF	ON
	401..600	OFF	OFF
	601..1300	ON	ON
RBQ25/4,0 300..2000 l/h	300..400	OFF	ON
	401..900	OFF	OFF
	901..1400	ON	ON
	1401..2000	ON	OFF
RBQ32/6,0 600..3600 l/h	600	OFF	ON
	601..1600	ON	ON
	1601..3600	ON	OFF



NOTE

You can find additional information on the default setting of the volume flow in the product description of the RBQ15..32, Cocon QTR DN40..50, QFC DN65..100 data sheet.

7 Maintenance

Maintenance

The actuator does not require maintenance.

Cleaning

The actuator does not require cleaning.

8 Faults and remedial measures



WARNING

Hot and cold surfaces!

If a hardware or software error occurs, there may be unexpected movements and the valve may open. There is a risk of severe burns or hypothermia from contact with hot or cold surfaces on the valves and pipelines.

- ▶ Wear protective gloves

Error	Cause	Rectification
Actuator does not regulate in automatic mode	Power outage	▶ Determine the cause and rectify it.
	Actuator is connected incorrectly	▶ Check the connection and correct.
	Short circuit due to incorrect connection	▶ Check the connection and correct.
Actuator instable when running	Voltage drop due to the connection line being too long and/or the cross section being too small	▶ Measure the operating voltage. Recalculate the electrical connection lines and replace.
	Power supply fluctuations greater than the permitted tolerance	▶ Improve the electrical system conditions.
Actuator stops every so often	Supply line has a loose connection	▶ Check and tighten the connections to the terminal strip.
Actuator not moving or not moving correctly to the valve position dictated by the input signal, valve not closing or opening	Valve is jammed	▶ Ensure the valve can travel freely or replace the valve.
	Pressure difference too high	▶ Have the hydraulic system and differential pressure checked and adjusted.
	Main circuit board defective	▶ Get in touch with your contact at Kieback&Peter.

LED states

LED flashes green in 1 s cycle	Initialization is running or initialization was not completed successfully
LED lights up green permanently	Initialization was successfully completed, control operation
LED lights up red permanently	Blockage, intervention necessary Trigger initialization or briefly interrupt power supply

9 Repair

At the installation location, the valve/actuator combination can only be repaired by replacing the valve or actuator. Get in touch with your contact at Kieback&Peter.

10 Decommissioning, Removal and Disposal

10.1 Manual adjustment



CAUTION

Manual adjustment may only be performed when the actuator is installed.

- ▶ Disconnect the actuator from the voltage supply.
- ▶ Open the cover plug.
- ▶ A hexagon key (key socket 4 mm) can be used to move the actuator into any position.



CAUTION

If you manually adjust the spindle position until the slip clutch engages in the upper or lower end position, you must turn back the hexagon key by half a turn.



NOTE

An initialization run must be performed after a manual adjustment.

This occurs during operation when a valve end position is reached as part of normal operation.

This initialization can be performed manually by switching switches 4, 5 or 6 back and forth. See chapter 6.3 “Adapting actuator functions”, page 19.

10.2 Decommissioning and dismantling the actuator



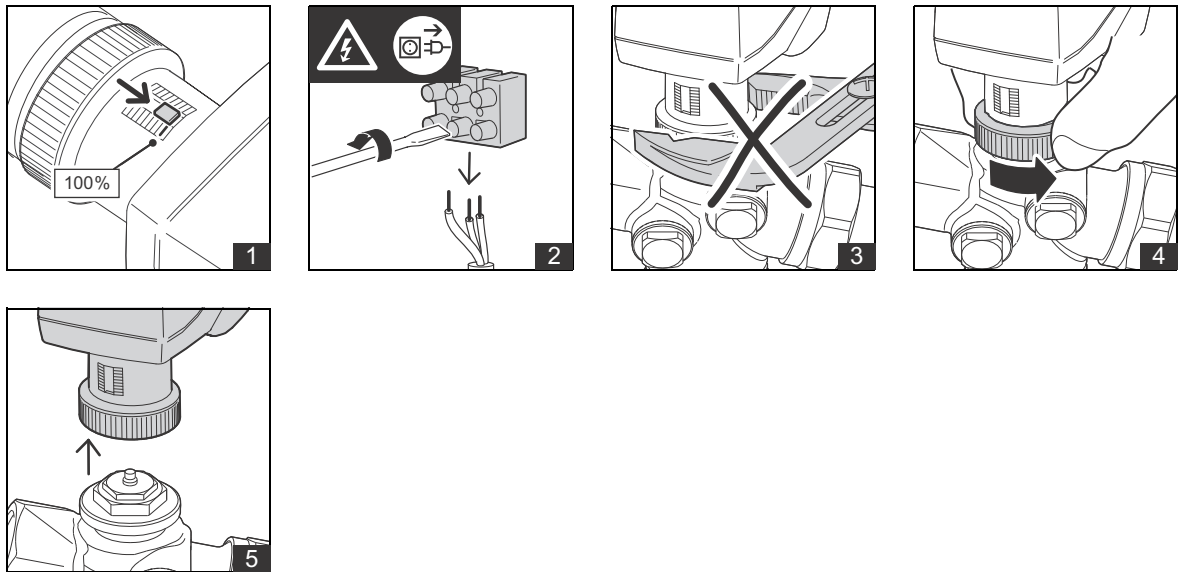
WARNING

Hot and cold surfaces!

If a hardware or software error occurs, there may be unexpected movements and the valve may open. There is a risk of severe burns or hypothermia from contact with hot or cold surfaces on the valves and pipelines.

- ▶ Wear protective gloves

10.2.1 Removing the actuator from the RBQ 15..32



- ▶ **1** Move the actuator to the top position using a control signal.
- ▶ **2** Shut off the actuator power supply and disconnect all electrical cables.
- ▶ **3** CAUTION! Do not use a pipe wrench. This may damage the actuator and valve.
- ▶ **4** Loosen the union nut.
- ▶ **5** Remove the actuator from the valve.

10.3 Removing the valve

- ▶ No differential pressure must occur on the valve body. Close the gate valve and turn off pumps.
- ▶ Loosen the screw fittings between the pipeline and the valve connections.
- ▶ Remove the valve from the pipeline.

10.4 Notes on disposal

In accordance with the applicable laws and directives of the European Union countries, the product should not be disposed of with household waste. This ensures environmental protection and sustainable recycling or raw materials. Commercial users should contact their supplier and observe the conditions of the purchase agreement. This device may not be disposed of together with other commercial waste.

11 Contact persons

Orders and questions

If you want to submit an order, have questions or require technical information, please contact your Kieback&Peter contact person.

Repair service

If your device has a defect, firstly contact your Kieback&Peter contact person to clarify how to proceed.

Repair queries must include a delivery note in which the defect is clearly described and which contains a contact address for any further issues. The package must have sufficient postage paid and is to be sent to:

Kieback&Peter GmbH & Co. KG
Dahmestrasse 18-19, 15749 Mittenwalde/Germany

12 Declaration of conformity

Kieback&Peter

EU-KONFORMITÄTSERKLÄRUNG

EU-DECLARATION OF CONFORMITY



Kieback&Peter GmbH & Co. KG

Tempelhofer Weg 50
12347 Berlin / Germany

Dokumentationsbevollmächtigte/
Authorized Representative for Documentation:
Lydia Bruchno / Eva Franke

bestätigt in alleiniger Verantwortung, dass das
bezeichnete Produkt

declares in sole responsibility that the designated
product

Stellantrieb

Actuator

MD15-Q

in Verbindung mit Ventilen der Serie

in combination with valves from the series

RBQ15..32

auf das sich diese Erklärung bezieht, den
Anforderungen entspricht, die in den folgenden
europäischen Richtlinien festgelegt sind:

to which this declaration refers, corresponds to the
requirements which are stipulated in the following
European directives:

- **2006/42/EG** Maschinenrichtlinie
- **2014/35/EU** Niederspannungsrichtlinie
- **2014/30/EU** elektromagnetische
Verträglichkeit
- **2011/65/EU** RoHS-Richtlinie

- **2006/42/EC** Directive Machinery
- **2014/35/EU** Low Voltage Directive
- **2014/30/EU** electromagnetic compatibility
- **2011/65/EU** Restriction of certain Hazardous
Substances

Angewendete harmonisierte Normen:

Harmonised standards applied:

DIN EN 60730-2-14:2009-06
DIN EN ISO 12100:2011-03

Unterzeichnet für und im Namen von:

Signed for and on behalf of:

Berlin,
17 April 2020

(ppa. Rainer Mahling)
Geschäftsleitung
Solution & Support Center
Managing Director
Solution & Support Center

(i.V. Frank Külich)
Bereichsleitung
Produktentwicklung
Head of
Product Development



UKCA-DECLARATION OF CONFORMITY

Kieback&Peter GmbH & Co. KG
Tempelhofer Weg 50
12347 Berlin / Germany

Authorized Representative for Documentation:
Logicboks Limited
12 Greenway Farm
BS30 9RL UK

declares in sole responsibility that the designated product

Actuator

MD15-Q

in combination with the **valves** of the series

RBQ15..32

to which this declaration refers, corresponds to the requirements which are stipulated in the following directives:

- Supply of Machinery (Safety) Regulations 2008
- The Pressure Equipment (Safety) Regulations 2016
- Electromagnetic Compatibility Regulations 2016
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Harmonised standards applied:

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Signed for and on behalf of:

Berlin,
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(Rainer Mahling)
Managing Director
Solution & Support Center

(Frank Külich)
Head of
Product Development

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