

**Prerequisites for the safe handling of the product**

Handling this product requires professional knowledge in the field of electrical and mechanical engineering.



The present short instructions do NOT replace the operation instructions! They are only intended for persons already familiar with the operation instructions! The operation instructions are available here: [www.rp-actuator.com](http://www.rp-actuator.com) or via scanning the QR code.

**1 Mount to valve**

Figure 1: Place actuator and fasten the screws.

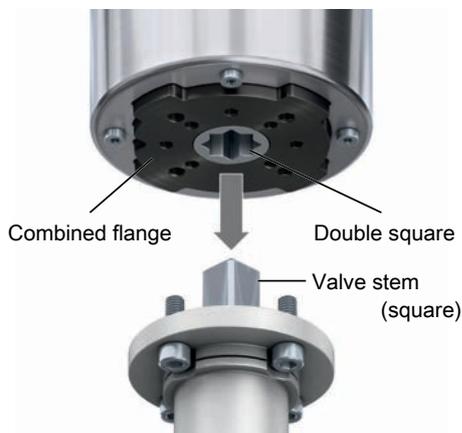


Table 1: Tightening torques for screws

Threads	Tightening torque [Nm]
	Strength class A2-80 / A4-80
M5	6
M6	10

**2 Open the housing**

The housing must only be opened for electrical connection and commissioning settings.

Figure 2: Unfasten the cover fastening (stainless steel housing), unfasten screws (plastic housing)



**3 Electrical connection**

Electric connection may only be performed by suitably qualified personnel in compliance with the terminal plan. The pertaining terminal plan (in German or English language) is attached to the actuator upon delivery. It can also be requested using the serial number (refer to name plate).

## 4 Commissioning

During commissioning, at least the two following functions must be checked and set:

- Set type of seating in end position CW (CLOSED) (limit or torque seating)
- Set end position via one of the two commissioning modes:
  - Automatic: Set end position 1 manually, end position 2 automatically to 90°
  - Manual: Set end position 1 and end position 2 manually

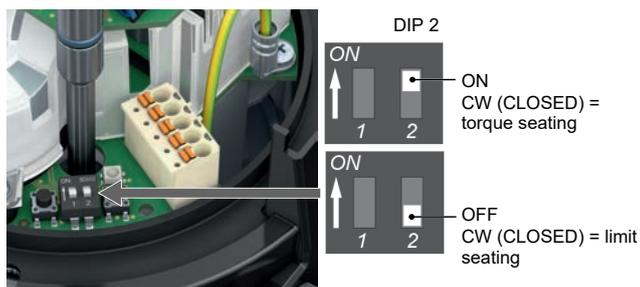
The setting is made via DIP switches and push buttons , located below the cover.

Table 2: Push button functions

Function	Push buttons CW and CCW
Operation in direction CW (CLOSE)	Press push button CW (until the end position is reached)
Operation in direction CCW (OPEN)	Press push button CCW (until the end position is reached)
<b>Only in commissioning mode:</b>	
Delete end positions	Hold down both push buttons CW + CCW simultaneously for minimum 5 seconds.
Activate setting mode	Hold down both push buttons CW + CCW simultaneously, between 0.5 and 5 seconds.
Set end position (in setting mode) The LED is blinking faster in setting mode.	To set end position CW (CLOSED): Press push button CW. To set end position CCW (OPEN): Press push button CCW.

### 4.1 Set type of seating in end position CW (CLOSED)

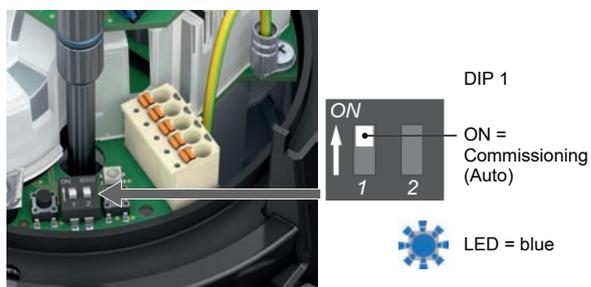
Figure 3: Set type of seating via DIP switch 2



1. Open cover.
2. Set type of seating for end position CW (CLOSED) via DIP switch 2.

### 4.2 Set end position 1 manually, end position 2 automatically to 90°

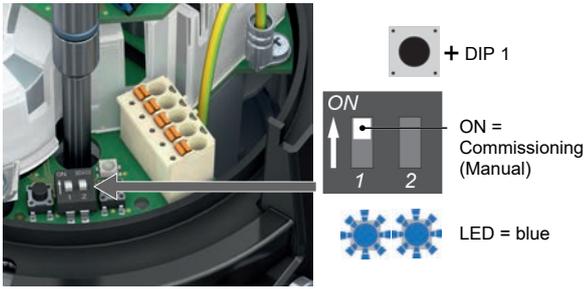
Figure 4: Activate Auto commissioning mode via DIP switch 1



1. Open cover.
2. Activate Auto commissioning mode: Set DIP switch 1 to ON.
3. Delete previous end positions.
4. Approach end position 1.
5. Activate setting mode and set end position 1.
  - ⇒ The position for end position 2 is automatically set at a distance of 90°
6. Exit the Auto commissioning mode: Set DIP switch 1 to OFF

### 4.3 Set end position 1 and end position 2 manually

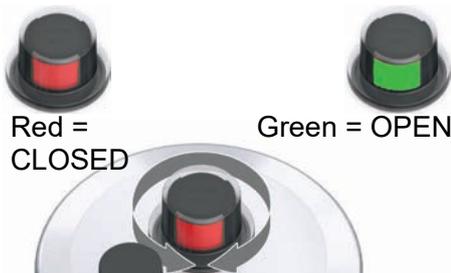
Figure 5: Activate Manual commissioning mode via push button + DIP switch 1



1. Open cover.
2. Activate Manual commissioning mode: Press and hold down any push button  + set DIP switch 1 to ON.
3. Delete previous end positions.
4. Approach end position 1.
5. Activate setting mode and set end position 1.
6. Approach end position 2 (settable range: 45° – 350° of end position 1)
7. Activate setting mode and set end position 2.
8. Exit the Manual commissioning mode: Set DIP switch 1 to OFF.

### 5 Mechanical position indicator

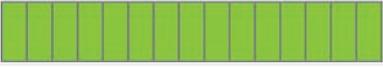
Figure 6: Turn indicator glass



The indicator glass can be turned if the position indication within the indicator glass does not show the correct colours/states in the end positions after mounting.

### 6 LED signals

Table 3: LED signals

Blinking signal	Signification
<b>Operation mode REMOTE (green)</b>	green = ready for operation, for control from REMOTE
	in CW end position (CLOSED) <sup>1)</sup>
	in CCW end position (OPEN) <sup>1)</sup>
	CW operation (in direction CLOSE) <sup>1)</sup> or CCW operation (in direction OPEN) <sup>1)</sup>
	in intermediate position (not in end position)
	no end positions set, consequently no position indication
<b>Commissioning mode (blue)</b>	blue = commissioning (via DIP switch and push button)
	in end position CW (CLOSED) <sup>1)</sup> and set end position

Blinking signal	Signification
	in end position CCW (OPEN) <sup>1)</sup> and set end position
	Manual commissioning mode (in intermediate position)
	Auto commissioning mode (in intermediate position)
	Setting mode for end position setting in Manual and Auto commissioning modes.
	End position setting is not possible or change in the setting mode. Further information: ⇨ Operation instructions
	End positions deleted (during commissioning)
<b>Fault signals in operation mode REMOTE (red)</b>	red = fault
	Torque fault CW or CCW
	Temperature fault
	Failure: Actuator stops Further information: ⇨ Operation instructions

1) For clockwise closing valves, CW = CLOSED