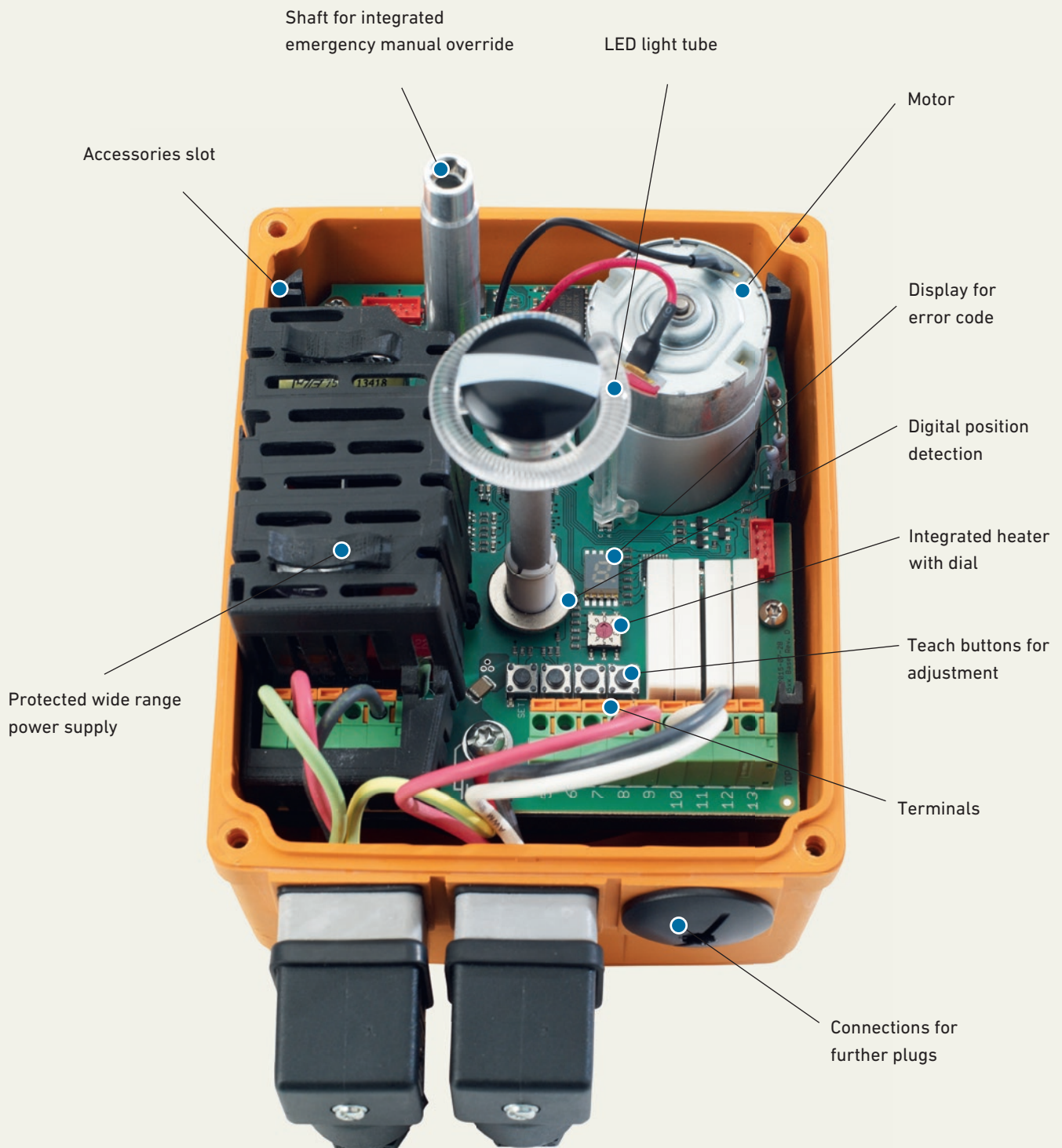


# Small & Light

Electric Actuators  
Type EA25-250



# Fully packed



# Smart Functions for Easy Operation

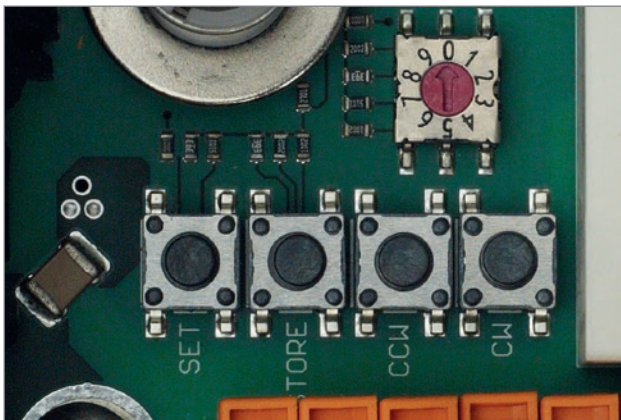
The new series of electric actuators from GF Piping Systems provides the highest reliability and ease of use. With smart additional functions, these actuators are ahead of their time.

## + Features & Benefits



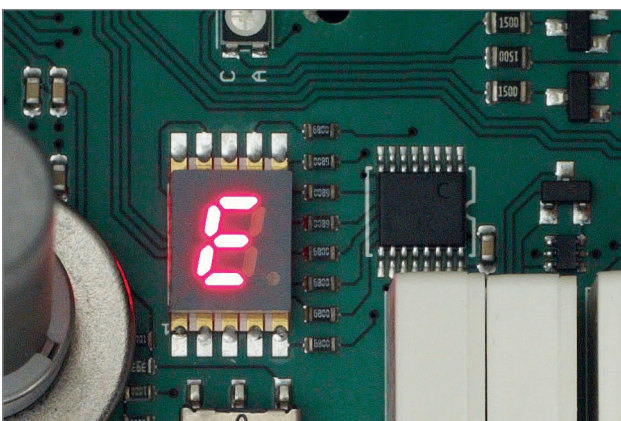
### Clear display

In addition to the standard display, there is colour LED feedback. This enables easy and fast detection of the operating status at a glance - whether in low light conditions or from a distance. The different colours show the respective position of the actuator. The integrated relays allow feedback from up to three different actuating positions.



### Easy set-up

Digital 360° position detection is used to clearly identify the actuating position. Ex factory, the actuator is adjusted to 0° and 90°. Readjustment by the user is possible at any time on site via four buttons. The buttons are easy to operate without any additional tools.



### Intelligent feedback

The 7-segment error display ensures the highest level of security in case of a problem. Through various error codes, the cause of a problem can be clearly identified. A time and labour-intensive search is no longer necessary. Whether it's undervoltage, a position error or use of the emergency manual override - the display facilitates the identification of disruptions. The 'ready-to-operate' signal gives feedback on the process control system. The signal will drop in case of failure.

# Universally Applicable Thanks to its Unlimited Flexibility

The standard interface ensures the use on various standard valves. Both for butterfly valves and ball valves, with and without manual override - the modularity is adapted to your needs. You get even more variety by being able to program a third position in addition to the end positions. This function can not only be used for a 2-way ball valve, but can also serve as an optimal middle position for a vertical or horizontal 3-way ball valve.

## + Modularity



**Type 179-184**

Ball valve 2-way type 546 with EA25 with manual override



**Type 167-170**

Ball valve 3-way type 543 with EA25



**Type 179-184**

Ball valve 2-way type 546 with EA120



Standard interface for easy and flexible installation on plastic and metal valves.



Signal from white luminous LED with programmed middle position indicating a third position.



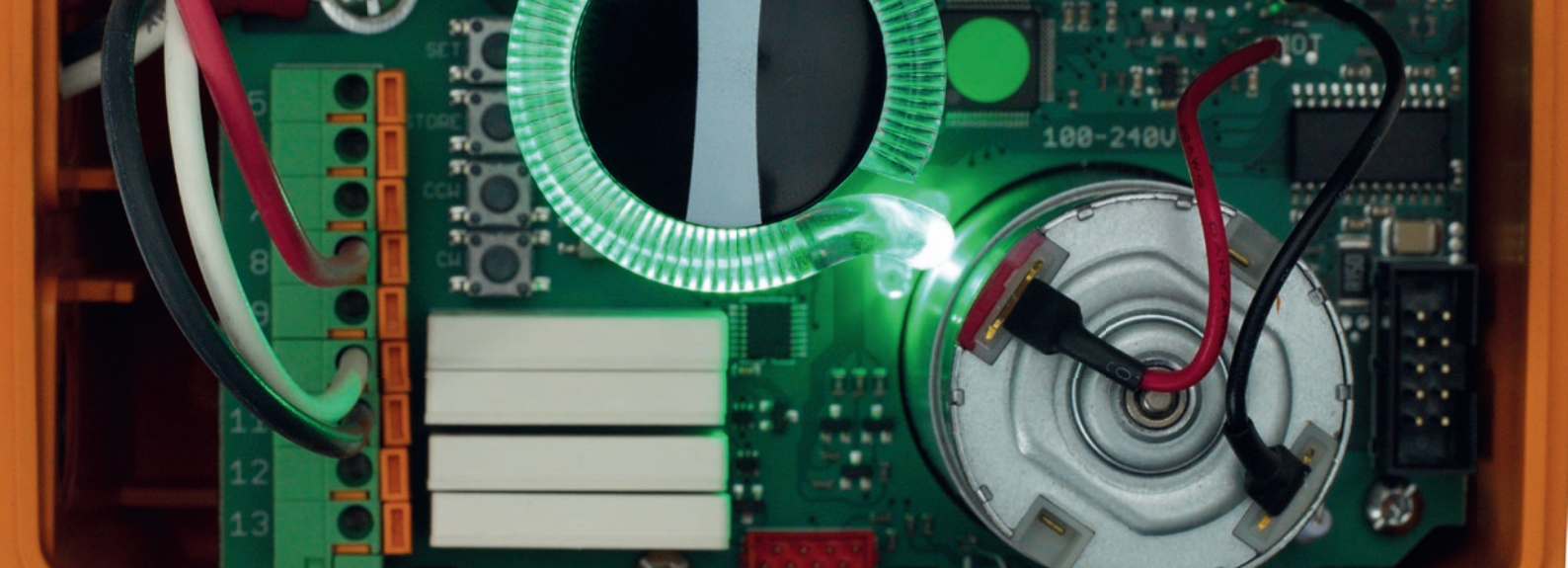
**Type 146-147**  
Butterfly valve type 578 with EA120



**Type 146-147**  
Butterfly valve type 578 with EA250

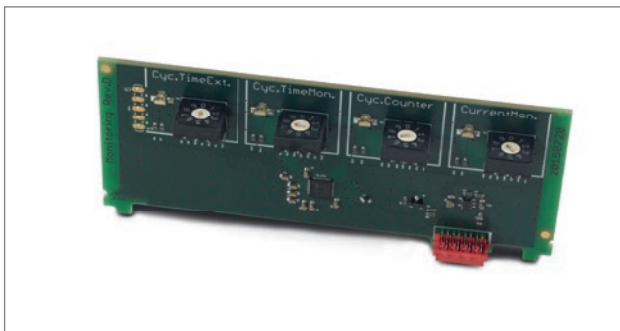


**Type 145**  
Butterfly valve type 567 with EA250 with manual override



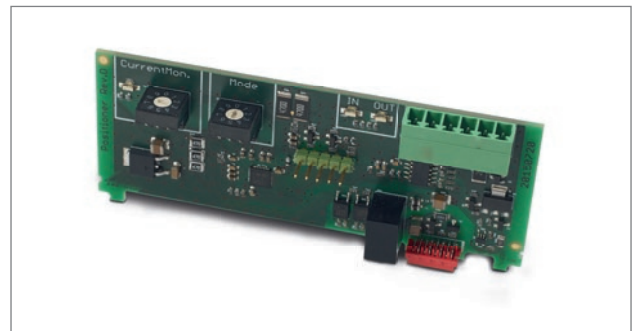
## Accessories

The electric actuators EA25-250 can always be upgraded with smart accessories. Various additional functions provide the user with optimal automation possibilities. Corresponding circuit boards can be easily and quickly plugged into the housing.



### Monitoring board for on/off operation

The monitoring board allows four functions. Using it, the positioning time can be extended and monitored without much programming effort. In addition, a cycle counter and motor current monitor are integrated.



### Positioner

The positioner continuously regulates any valve position proportional to a pending set value. In addition, the motor current monitor is also integrated here, in order to set a limit for the torque.



### Fail-safe return unit

The fail-safe return unit ensures that during a power failure the actuator will be returned to a safety position. This addition can be integrated into the case without external wiring.



### Profibus

This accessory enables easy integration into an existing Profibus network. You will receive a Profibus DP V0 capable compact actuator with two M12 connectors for connection.

# Technical details

## EA25, EA45, EA120, EA250

<b>Nominal voltage</b>	AC: 100 – 230 V, 50/60 Hz AC/DC: 24 V, 50/60 Hz
<b>Nominal voltage tolerance</b>	± 15%
<b>Protection class</b>	IP 65 (IP67)* according to EN 60529
<b>Pollution degree</b>	2 according to EN 61010-1
<b>Overload protection</b>	Current/time dependent, resetting
<b>Overvoltage category</b>	II
<b>Ambient temperature</b>	-10° to +50 °C
<b>Allowable humidity</b>	Max. 90 % relative humidity, non condensing
<b>Housing material</b>	PP-GF for very good chemical resistance

\* When used with cable glands and vertical installation.

	<b>EA25</b>	<b>EA45</b>	<b>EA120</b>	<b>EA250</b>
<b>Nominal power</b>	AC: 35 VA at 100–230 V AC/DC: 40 VA at 24 V	AC: 55 VA at 100–230 V AC/DC: 60 VA at 24 V	AC: 50 VA at 100–230 V AC/DC: 55 VA at 24 V	AC: 60 VA at 100–230 V AC/DC: 65 VA at 24 V
<b>Nominal torque Mdn (peak)</b>	10 (25) Nm	20 (45) Nm	60 (120) Nm	100 (250) Nm
<b>Duty cycle</b>	100%	50%	50%	35%
<b>Cycle time s/90° at Mdn.</b>	5 s	6 s	15 s	20 s
<b>Flange fitting</b>	F05	F05	F07	F07
<b>Tested cycles (at 20 °C and Mdn)</b>	250 000	100 000	100 000	75 000
<b>Weight</b>	2,1 kg	2,2 kg	3,6 kg	5,0 kg
<b>Actuating angle</b>	Max. 355°, set to 90°			



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