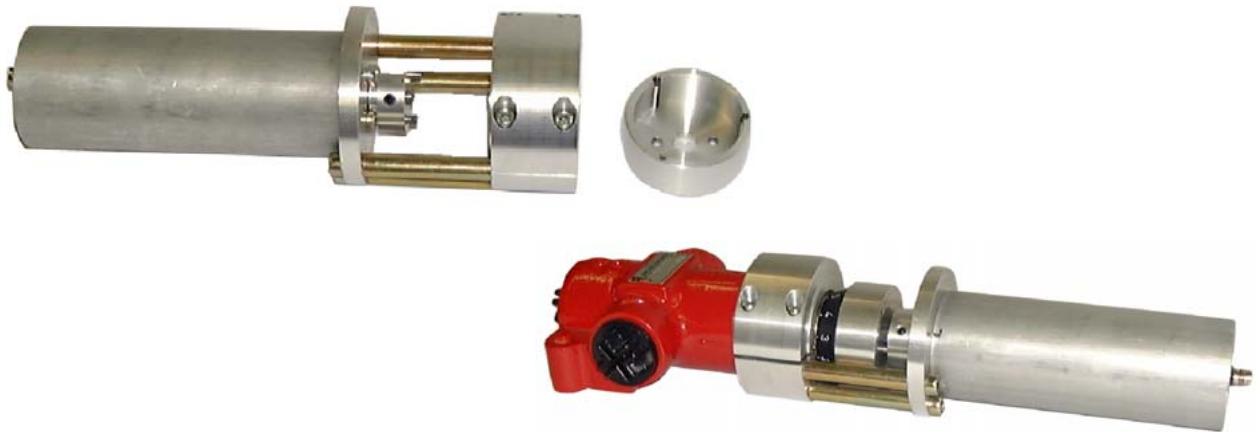


Actuator Unit SAMO.. with electric motor drive



1 General

1.1 Product description

Bucher offers an electric motor-driven actuator for the remote operation of series MTK.., MTQ.., MTCA.. and MTQE.. flow controls. The actuator fits directly onto the manually adjusted version of these flow controls, no prior modification being required.

A momentary contact on/off/on switch can be used to drive the motorised actuator and thus alter the flow rate.

The actuator is designed as a pre-assembled unit and consists of a straight-forward geared DC motor in an aluminium housing.

On-board electronics make voltage-independent operation of the actuator unit possible within a total range of 11 ... 28 V. By means of potentiometer P1 (12 positions), the full-range adjustment time of series MT.. flow control valves can be set between 9 - 16 seconds.

By using the ELDR 105-00*** controller, closed-loop actuator control is possible (see section 7).



The actuator can also be fitted to the flow control sections of HDS11... and HDS15... units. If a pressure relief valve is already mounted on the 'auxiliary controls surface', the standard actuator must be modified (see sect. 8.3).

Due to the design of the HDS.. valve, the torque requirement of its flow control is higher than that of MT.. valves. Only a part of the full-range adjustment time (varied by pot. P1) can therefore be used and at the maximum potentiometer setting the adjustment time can vary from 10 - 21 seconds.

1.2 Advantages

- easy retro-fitting
- variable adjustment time
- voltage independence
- position feedback without sensor is possible
- can be adapted for various valve series
- simple electrical plug connector

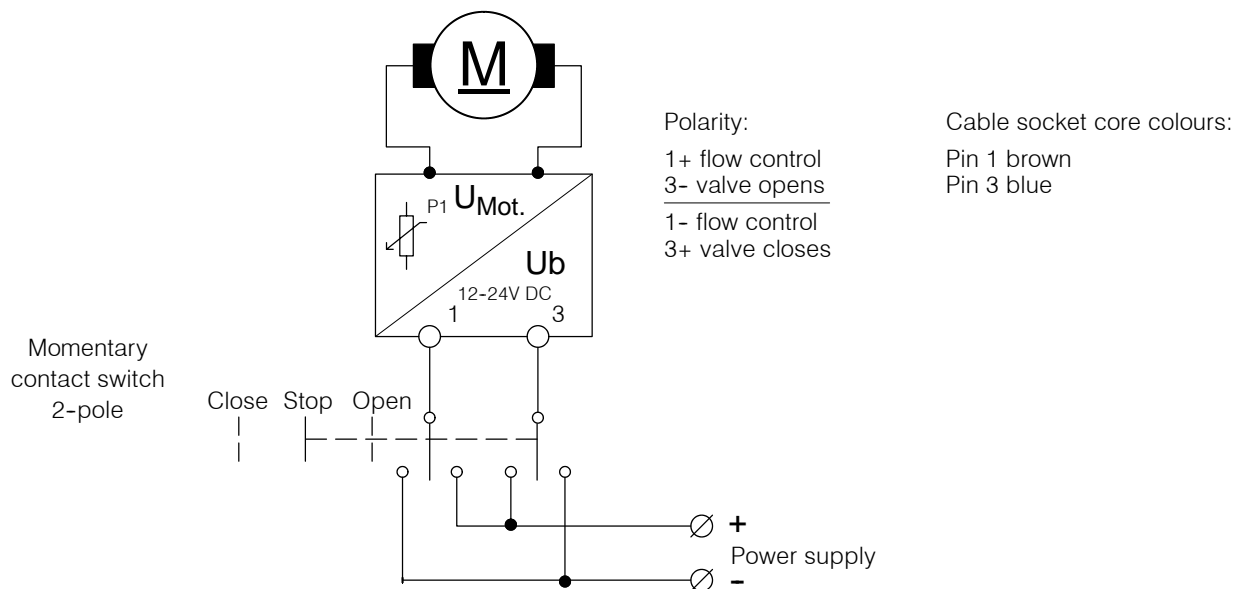
2 Technical data

Mounting attitude	unrestricted	
Loading (mechanical)	Side forces on the actuator unit are not permissible	
Nominal voltage Type SAMOA. Type SAMOE.	Volt DC	12 - 24 8 - 12
Current consumption	mA	approx. 100 - 300
Adjustment rate adjustable via pot. P1 (12 pos) Type SAMOA. Type SAMOE.	 clockwise -> faster  anticlockwise -> slower sec. sec.	variable approx. 9 - 16 ¹⁾²⁾ approx. 5 ²⁾
Temperature range	°C	-15 ... +65
Duty cycle	Jogging mode 100% (max. 1 min. against end-stop)	
Enclosure protection	IP 65 DIN 40050	
Plug	Round plug M8 / 3-pin Detent / screw cap	

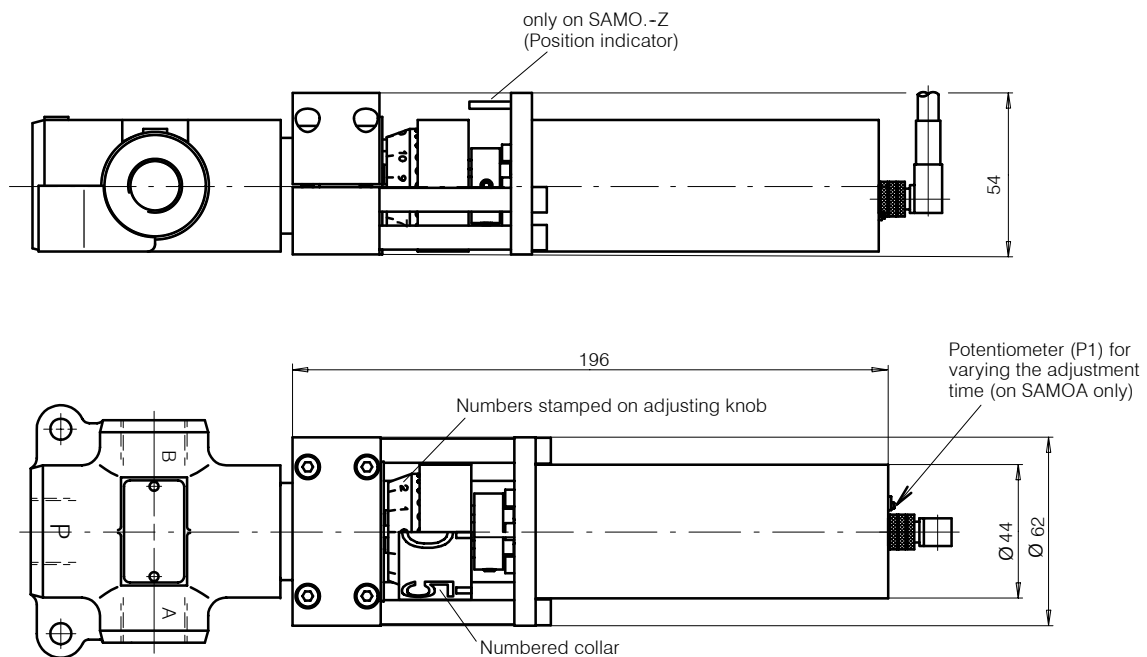
1) Factory setting approx. 9 sec.

2) Adjustment times are pressure-dependent
(above details for $P_{act} = 100$ bar)

3 Electrical connections



4 Dimensions



5 Ordering details

		S	A	M	O	A	-	*	O	/	
Power supply	12 V - 24 V adjustment time variable 9-16 sec.	= A									
	8 V - 12 V adjustment time approx. 5 sec. only with external electronics (ELDR 105-00***)	= E									
-											
Mechanical setting indicator (see section 4)											
Standard (numbers stamped on adjusting knob)		= *									
Numbered collar		= Z									
Design number		= 0									
/											
Special features (inserted by the factory)											

6 Installation

If the motorised actuator is to be fitted to the valve by the user, please refer to the Installation Instructions leaflet M00009 packed with the unit.

7 External electronics with closed-loop capability

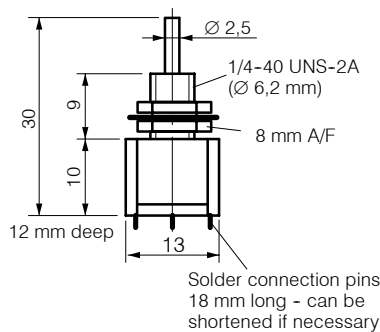
Control card ELDR 105-00***
Ordering no.: 100023305

See Operating Instructions leaflet I70019 (for use with model SAMOE...only)

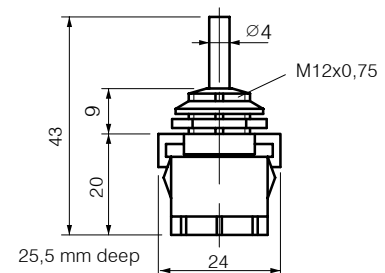
8 Accessories

8.1 2-pole mom. contact switch (ON)-OFF-(ON)

Ord. No.: 100607739



Ord. No.: 100607662



8.2 Connecting cable (with right-angle socket)

Length 10 m Ord. No.: 100151853
Length 5 m Ord. No.: 100151854

8.3 Mounting strap for use with HDS11 / HDS15

For applications where a pressure relief valve is also fitted alongside the flow control (refer to Installation Instructions leaflet M00009).

Ord. No.: 100132593

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We reserve the right to introduce technical modifications.

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