

Motor-Driven Standard Modulating Actuator: 24 V For KIDS PICVs DN15 – DN25

SPECIFICATIONS

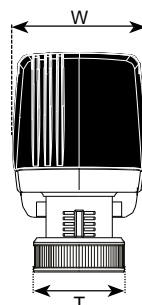
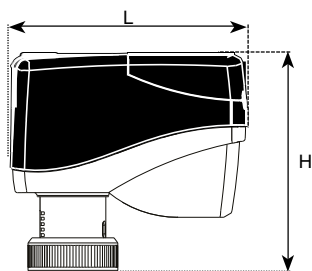
Supply Voltage	24V AC/DC $\pm 15\%$, 50/60 Hz
Type	Electrical, Bi-directional synchronous motor
Power Consumption	24V AC: 2.5VA operating (4.7VA max.) 24V DC: 1.2W operating (2.2W max.)
Inrush Current	8A (peak)
Control Signal	Analog 0(2)-10V DC, <0.5mA
Resolution	1:100 (0-10V) and 1:80 (2-10V)
Feedback	No
Failsafe Function	No
Electrical Override	Yes
Position Indicator	Yes
Operation Time	22 sec/mm
Actuating Force	160N -10N/+70N
Stroke	5.8mm / 0.23 in (compensated)
Ambient Temperature ¹	0°C to +50°C / +32°F to +122°F
Media Temperature	0°C to +120°C / +32°F to +248°F
Humidity Rating	0..85% rH, no condensation
Protection	IP54, class III, including upside-down, indoor use only
CE Conformity	EN 60730
Cable	Fixed, 3 wires x 0.50 mm ² , 1.5 meter Fixed, 3 wires x AWG20, 4.9 ft
Closing Point Adjustment	During operation the actuator will self-adjust according to the closing point of the valve.



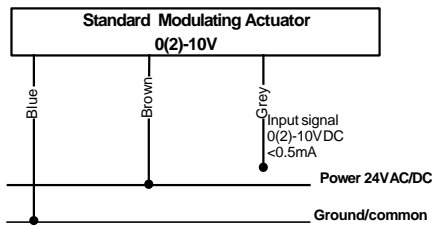
Note 1: Including +5°C self-generated heat based on UL requirements.

DIMENSIONS AND WEIGHT (NOMINAL)

Actuator	L mm (in)	W mm (in)	H mm (in)	T	Weight kg (lb)
24V Standard Actuator	86.5 (3.41)	48.5 (1.91)	80 (3.15)	M30x1.5	0.25 (0.55)



WIRING INSTRUCTION



VALVE FUNCTION

The valve functions are adjusted with the DIP switches under the connection cover.

Switch #1: Auto cycle ON/OFF

If the plant specifications permit it, the auto cycle can be activated during commissioning. Auto cycle prevents the valve from jamming when the valve is not moved for a longer period of inactivity, e.g. for heating systems during the summer.

When the auto cycle is activated, the actuator will perform 50% stroke cycle if no stroke movement has occurred during a 3-week period.

Factory setting = OFF.

Switch #2: Analog 2-10V DC / 0-10V DC

Setting control range by the continuous actuating signal 0-10V DC or 2-10V DC.

Factory setting = 0-10V DC.

Switch #3: Normally open / Normally closed

Setting actuating direction with 10V DC control signal to “valve open” or “valve closed” as well as the position feedback.

Factory setting = Normally closed; 0V DC = valve closed.

Switch #4: Equal % control / Linear control

Setting of actuating control curve either equal percentage or linear control. Factory setting = Linear control.

Switch #5: No function.**Switch #6:** Electrical override

Setting override function to ON and the actuator will open valve fully. When set to OFF again, the actuator will re-calibrate and thereafter go into normal operation mode.

Factory setting = OFF.

