

FlowCon FNP Actuator

FlowCon Electrical Actuator



SPECIFICATIONS

Supply voltage: 24V AC/DC ±15%, 50/60 Hz

Type: Electrical, Bi-directional synchronous motor

Power consumption: 24V AC: 0.9VA standby / 2.5VA operating / 4.7VA max.

24V DC: 0.75W standby / 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: Fail in place

Electrical override: Yes Position indicator: Yes

Operation time: 22 sec/mm
Actuating force: 160N -10N/+70N

Stroke: 5.8 mm / 0.23 in (compensated)
Ambient temperature¹: 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 mm², 1.5 meter

Fixed, 3 wires x AWG20, 4.9 ft

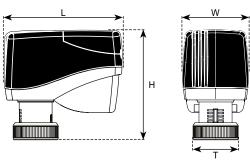
Closing point adjustment: During operation the actuator will self-adjust according

to the closing point and stroke length of the valve.

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

DIMENSIONS AND WEIGHT (NOMINAL)

Actuator	L	w	Н	Т	Weight
	mm (in)	mm (in)	mm (in)		kg (lb)
FNP.0.2	86.5 (3.41)	48.5 (1.91)	80 (3.15)	M30x1.5	0.25 (0.55)



FlowCon FNP

MODEL NUMBER SELECTION

Actuator force:

0 = Medium

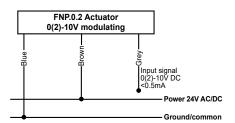
Control signal:
2 = 24V modulating

Example:

FNP.0.2 = FlowCon FNP actuator 24V modulating, medium actuating force without feedback.

WIRING INSTRUCTION

ANALOG



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: <u>Analog 2-10V DC / 0-10V DC</u>

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.

UPDATES

For latest updates please see www.flowcon.com

FlowCon International can accept no responsibility for possible errors in any printed material. All rights reserved.

