

#### We offer:

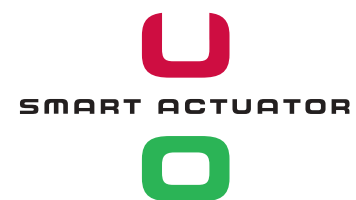
- Full control
- Easy to connect
- Robust bus-system (CAN-bus)
- Both quarter and multi turn
- Mechanical stop for 90deg.
- Easy emergency operation.
- Big position indicator.
- Status LED in connection box.
- High torque at low speeds.
- 3 temperature sensors
- 7 position sensors
- 32 bit processor (DSP)
- IP 67 enclosure
- Connection to Ethernet (TCP/IP)

#### Options:

- Submergible
- Eex proof

**Smactuato™ - the new generation of actuators**  
- gives you full control on all types of valves.

Production:



Smart Motor AS  
Jarleveien 8  
No 7041 Trondheim  
Norway



**Smactuato™ - NEW electric valve actuator, for all types of valves.**  
**Permanent magnet motor, digital control and operation.**

## In general:

Position is controlled by internal PID controller.

Travel speed is set for each valve.

A temperature controller supplies heating if cold actuator, and an alarm signal is given if the actuator gets over-heated.

## Technical data:

Torque	0 Nm to 250 Nm for direct 90°		
Operation speed	Variable (typical 5 sec/90°)		
Internal bus, actuators	Can bus 250 kbps - 1 Mbps		
External connection	TCP/IP 10/100 Mbps		
Power supply	220V AC - 50/60 Hz		
Power consumption	2 W to 200 W		
Power factor (cos. Phi)	0,83 - 1,00		
Gear ratio	1:9		
Manual operation	2 1/4 turn (90°)	Dimension (housing)	ø235 mm x 200 mm
Valve connection	F05, F07, F10, F12	Dimensions (connection box)	120 x 130 x 60 mm
Spindle	Max ø25mm	Weight	ab. 15 kg
Protection (housing)	IP 67	Materials (actuator)	Aluminium, AISI316 and steel
Protection (connection box)	IP 67	Materials (connection box)	Plastic, Fibox



### Termination box:

A status indicator gives running indication on each actuator.

Actuator configuration through serial communication, or by TCP/IP.

Flexible termination box positioning gives improved termination access.

### Quarter turn actuator:

Designed for operation of butterfly and ball valves up to break torque of 250 Nm.

The actuator is supplied with mechanical adjustable end stops and a big arrow showing the valves position. We deliver true feedback also after blackout or manual operation.

### Multi turn actuator:

Gate and globe valves, as well as other valve types and quarter turn valves with need of higher torque are typical operated with a worm gearbox between actuator and valve. The Smactuators™ read the position of the worm gearbox.

## OPTIONS

### Submergible actuator:

The Smactuators™ is submergible by internal modifications, including oil filled, pressure equalized enclosing and protection of the inserted electronics. With external connection box is status indication and configuration still available.

### EeX actuator:

In addition to action taken for submerged actuator, the Eex version has a new connection box.

Approval for Eex is pending.

Photos:

1) DN150 and DN200 valves on ballast valve chest with Smactuators ¼ turn.

2) DN400 valve with multiturn Smactuators.

3) Detail of Smactuators connection to valve.



1)



2)



3)

