



**ELECTRIC
ACTUATORS**

**QUARTER-
TURN**



 **centork**
VALVE CONTROL

Q U A R T E R - T U R N

The 480 series CENTORK electric actuator is covering the need of small torque quarter-turn actuators to complete the Centork electric actuators range. Centork is presenting a range of actuators specifically designed for quarter-turn applications (Butterfly, Ball, Plug valves and dampers) in industrial applications, with the same quality and reliability of every Centork product and the next characteristics:

HOUSING

Manufactured of a high quality anodised aluminium casting. The cover bolts are captive.

TORQUE AND POSITION CONTROL

They guarantee the correct actuation of the valve, accurately controlling the Position and the torque applied and avoiding overloads.

MANUAL OPERATION

Provides emergency manual operation, maintaining the priority on the motor drive.

► **Gearing:** With a double worm gear that guarantees the self locking and the accuracy of the valve position and a low noise function. EP grease lubrication, maintenance free.

► **High enclosure protection:** The 480 series actuators are supplied with IP67 enclosure protection, IP68 being an option. The 48A series are explosion-proof Eexd IIBT4 certified.

► **High corrosion protection:** Epoxy powder coating as standard. Optionally P1 and P2 protection classes for extreme conditions. All external screws are made of stainless steel.

► Ambient temperature from -20°C to $+70^{\circ}\text{C}$. (Max.humidity: 90%).
Vibration: XYZ 10g. 2-34Hz,30min.

VALVE COUPLING

Valve coupling flange is according to ISO 5211. The removable drive bushing allows the machining according to valve shaft.



N - 480 SERIES



MECHANICAL POSITION INDICATOR

The mechanical position indicator is directly linked to the actuator output, thus accurately and clearly indicating the valve position.

MOTOR

Specifically designed for valve actuation with low inertia and high torque, it guarantees a precise and reliable service. It includes internal thermal protection to protect it against overheating and class F insulation.

HEATER

To avoid internal condensation, a self regulating heater is included as standard.

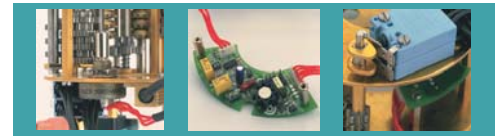
MECHANICAL END STOPS

Settable according to the valve travel, they limit the actuator stroke avoiding any damage to the valve.



CENTRONIK. Integral control unit (Option)

Maintaining the concept of modularity, the Centronik unit can be mounted on 480 series actuators, both directly or separately on a wall bracket. This way all the control and digital communication characteristics of the Centronik unit, including the standard Fieldbuses (ProfiBus, ModBus, etc.) are available.



SWITCHING and SIGNALLING OPTIONS.

Using modules a number of options can be included in the basic configuration: extra limit/torque switches, potentiometer, 4-20mA position transmitter, Local Control station...



For higher quarter-turn actuators use multiturn+worm gearbox combinations:
400/410 Series + CW.



MODELS		480-007	480-010	480-015	480-025	480-035	480-050	480-080	480-110
Maximum Torque	(Nm)	80	100	160	240	350	500	800	1100
Output Flange	ISO5211	F05/F07	F07	F07/F10	F07/F10	F10/F12	F10/F12	F12/F14	F12/F14
Operating time for 90° at 50Hz	(sec.)	16	21	26	26	31	31	39	39
Supply 1 Phase AC		110V-220V / 50-60Hz							
Supply 3 Phase AC		380V-440V / 50-60Hz							



CENTORK VALVE CONTROL, S.L.

Pol. 110, Txatxamendi, 24-26

20100 LEZO (Gipuzkoa)

Tel.: 34 943 31 61 37 - Fax: 34 943 22 36 57

E-mail: actuator@centork.com

<http://www.centork.com>



1797CATE480X008

@ CODIGO.ES

