



**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  $-20^{\circ}\text{C}$  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.



# 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		480-006	480-010	480-015	480-025	480-035	480-050	480-080	480-110
Maximum Torque	(Nm)	60	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.)	20	21	26	26	31	31	39	39
Supply 1 Phase AC		110V-220V / 50-60Hz							
Supply 3 Phase AC		N.A.		380V-440V / 50-60Hz					



**CENTORK VALVE CONTROL, S.L.**

Portu Etxe, 23-25 - E 20018 SAN SEBASTIÁN

Apdo. 735 - 20080 San Sebastián

Tfno.: 34 943 31 60 31 - Fax: 34 943 21 76 75

E-mail: [actuador@centork.com](mailto:actuador@centork.com)

<http://www.centork.com>



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@ CODIGO