

Electrical Actuators

The Complete Solution in Valve Automation

Introduction

SDTORK comprises a dynamic and committed team of young professionals blended with expertise and experience - Technocrats, Engineers and Managers. Sdtork team is well aware of the latest developments in modernization and automation with stress on economy, efficiency and quality. The present trend is 'speed' which means replacement of rather sluggish and outdated mechanical devices with faster and modern electronic and electrical devices. Sdtork is precisely in this business of automation of valves through intelligent approach to the same.

SDTORK's motto is Technology + Field Engineering + Implementation + Back-up supports. Sdtork team strives to give an optimal return to the customer for the money and effort they put in, in other words, keep the customer entirely satisfied.

With the above objectives in mind, SDTORK has developed Electric Actuators - 'Intelligent Actuators' to suit every valve application. The latest technology like PROFIBUS-interface is adopted in these Intelligent Actuators to provide greater advantage to the end user, apart from using feed-back devices and fail-safe devices. These Intelligent Actuators are designed for both on-off [openclose] application and also modulating application. Sdtork Intelligent Actuators are customer friendly and guarantee precise control every time, with repeated operations also. With a variety of valve types, Sdtork uses special adaptors

Sdtork team assures that the customer will ever love to approach Sdtork for their further needs and will never regret the decision to go with Sdtork.

with the Intelligent Actuators to suit each valve type for

Single Phase Quarter Turn / Half Turn Weather Proof Electrical Actuator



SDTORK Electric Actuator type 1000 series have been designed for remote control of Ball valves, Butterfly valves, Dampers & other actuating devices, which require up to 90 ° rotary actuation & tight closure in end positions.

It is simple in design with compact in size, lighter in weight due to high grade aluminum alloy housing.

1000-series electric actuator is designed with a specially developed low rpm synchronous stall duty motor with single stage worm reduction gear box which makes this actuator totally trouble free i.e. Fit and Forget type. Specially used in process industries for On-off/Inching and modulating duty.

DC / Single Phase Quarter Turn Weather Proof Electrical Actuator

greater customer satisfaction.



ECO Series is a specially design, compact, lightweight & powerful function economical series electrical actuator. It offers customer better value for money by focusing both on low cost and upscale quality. The ultimate goal of the developing ECO series is to keep costs lower than other series with comparable quality and features.

ECO Series actuator has a proven performance for on/off valve and damper control with an extremely high life cycle, ECO-Series actuators are a truly cost-effective, reliable solution to simple valve actuation needs, easy to install, with almost nil maintenance, ECO-Series actuators are ideally suited for OEM applications. They are designed to supply years of trouble-free actuation with efficient & Consistent Performance.





Single Phase / Three Phase Quarter Turn Weather Proof Electrical Actuator



SD-1001 Series actuator is specially designed for quarter turn operating application such as Ball valve, Butterfly valve, plug valve, Dampers and similar usages. SD-1001 Series is highly reliable for heavy duty application, can withstand against impact, vibration & dusty environment. Over and above standard features of SD-1000 & SD-1001-ECO series, SD-1001 series is having an over torque protection Highly efficient spur, planetary gear train transmit motor torque directly through coaxial shafts to output of actuator & manual operation take place through worm reduction. It also adds self-locking feature in actuator design.

Single / Three Phase Quarter Turn Electrical Actuator



FSD-1001-Ew series actuator is an weather proof equipment. Good quality aluminium alloy body. Strong design body withstand against high pressure without any damage.

FSD-1001-Ex series actuator is an anti-explosive / flame-proof equipment. FSD-1001-Ex series actuator design restrict increase in surface temperature & electric spark caused due to transient current. Actuator complies to IEC60079-0:2017 & IEC60079-1:2014. Design feature of FSD-1001-Ex series prevent the contact of interior sparks or explosive carrier with the outside. Good quality aluminium alloy body strong stand against internal explosion. Strong design body withstand against high pressure caused due to interior explosion without any damage.

Single Phase / Three Phase Quarter Turn Flame Proof Electrical Actuator



FSD-1001 series actuator is an anti-explosive / flame-proof equipment.FSD-1001 series actuator design restrict increase in surface temperature & electric spark caused due to transient current. Actuator complies to IEC60079-0:2011 & IEC60079-1:2014 and IEC 60529:2013. Design feature of FSD-1001 series prevent the contact of interior sparks or explosive carrier with the outside. Good quality aluminium alloy body strong stand against internal explosion. Appropriate flameproof joint gap and adequate flame path length assure restriction of flame outside atmosphere. Strong design body withstand against high pressure caused due to interior explosion without any damage.

Single Phase Linear Weather Proof Electrical Actuator / with Linear to Rotary Converter / With Linkages



Single Phase Linear Flame Proof Electrical Actuator with Linear to Rotary Converter / With Linkages



Single Phase / Three Phase Multi Turn Weather Proof Electrical Actuator





Three Phase Multi Turn Flame Proof Electrical Actuator

12000 Series

Torque Range upto 1000 Nm (MT)



Sdtork Electrical Actuator 12000-Series have been designed for multiturn application to operate valves like Sluice valve, Gate valve, Knife-edge Gate valve, sluice gate & other actuating devices, which require multi turn actuation.



GEAR BOX & THRUSTER UNIT











CIRTIFICATIONS













Other Products

Basic Actuator Series

- 1000 Series: Single Phase Quarter Turn / Half Turn Weather Proof Stayput Electrical Actuator
- 1001 ECO Series: DC / Single Phase Quarter Turn Weather Proof Stayput Electrical Actuator
- 1001 Series: Single Phase / Three Phase Quarter Turn Weather Proof Stayput Electrical Actuator
- 2000 Series: Single Phase Linear Weather Proof Stayput Electrical Actuator / with Linear to Rotary Converter / With Linkages
- 3000 Series: Single Phase / Three Phase Multi Turn Weather Proof Stayput Electrical Actuator
- FSD-1001-EW-Series: Single Phase / Three Phase Quarter Turn Weather Prof Stayput Electrical Actuator
- FSD-1001-Ex-Series: Single Phase / Three Phase Quarter Turn Flame Proof Stayput Electrical Actuator
- FSD-1001-Series: Single Phase / Three Phase Quarter Turn Flame Proof Stayput Electrical Actuator
- HQ Series: Single Phase Linear Flame Proof Stayput Electrical Actuator with Linear to Rotary Converter / With Linkages
- 12000 Series: Three Phase Multi Turn Flame Proof Stayput Electrical Actuator

Supplimentary Attachment Type

- Quarter Turn / Full Turn Worm Gear Box
- Spur Gear Box / Bevel Gear Box

- Linear Transmitting Unit
- Thruster Unit

Accessories available on demand

- Space Heater
- Thermostat
- Resistive / Inductive Type Potentiometer
- Position Transmitter
- Panel Mounted Servo Controller
- Actuator Mounted Position Control Unit
- Local Control Station with Battery Backup
- = Local Control Station with battery backup
- Local Control Station with Battery Back up with Solar Panel System
- Local Control Station with Battery Back up with GSM Operating
- Local Control Station with Battery Back up with Solar Panel System with GSM Operating
- Local Push Button Station
- Power Pack inbuild with DC Battery + Charger Circuit + Invertor Circuit with Logic Control Card for Fail Safe Position.
- Can be supplied with PLC, SCADA, Modbus, Profibus, Fieldbus Communication Protocol, RS485
- Complete pressure control loop / temperature control loop / flow control loop
- Automation of existing valves by means of retrofitting

PID Controller

- 4-20 mA Source generator
- Digital Position Indicator
- Signal Multiplier
- Weather Proof / Flame Proof Reversible Starter
- Local Control Station

SDTORK CONTROLS PVT. LTD.



Registered Office

Shop No. 1106, 10th Main Road, R.P.C. Layout, Near R.P.C. Layout Bus Stop, Hampinagar, Bangalore 560 104. (Old Pin 560040)

Karnataka, India

Tel. : +91 80 2330 2145 / 2314 1104 / 2340 2297

Fax : +91-80-23305729 Cell : +91 9845018216 E-mail : sudeengg@gmail.com

Pune Office / Works:

Gat No. 94/2, Plot No.2, Alandi Markal Road, Village - Dhanore, Tal - Khed, Pune 412105.

Maharashtra, India

Tel. :+91 9763719689, 9763719690 Cell :+91 9822980003, 9845018216 Email : scpl@sdtork.com



www.sdtork.com