

HIGH TORQUE ACTUATOR SERIES 744

Non-Spring Return Actuator For SKS Butterfly Valve

The RC 744 range actuators have been designed using proven reliability in combination with the latest Technology. They provide a simple, cost-effective way of controlling quarter turn valves and dampers. The design meets Industry's need for a compact and reliable actuator, it is suitable for use in many areas where an IP65 enclosure is required, Though IP68 enclosure are also available. The RC 744 range is a single phase electric actuator which is available in two Versions, both with the IP65/ IP68 (optional) enclosure. The standard version is suitable for open/close duties where on/off Control is required(with feedback & BMS). This is achieved without the need for reversing contactors, giving simplified wiring. The designs of the motor and limit switch mechanism ensure combined ease of setting and reliability.

The 'M' version benefits from the addition of a control interface module which enables it to operate from a wide variety of control signals and provides status monitoring outputs. The 'M' version is suitable for Continuous duties cycle, where modulating control is required.

FEATURES:

- Reliability of single phase Thermally protected motors.
- Rugged compact enclosure providing environmental protection during plant construction and cabling.
- Positive travel limitation by externally adjustable mechanical stops.
- Potential Free Contacts For Open, Close, Trip status.
- Self locking electrical and manual drive.
- Status Indicator.

SPECIFICATION

Product Type	Actuator
Time Of Operation	30 Seconds
Min. Operating Temp.	0°C
Max. Operating Temp.	80°C
Heater	Space Heater
Fail Safe	Stay Put
Over Ride	Manual, Non De-Clutching
Enclosure Electrical Insulation	Class-I
Control Type	Snap Acting
Limit Switch	SPDT10A-230 Ac
Degree Of Protection	IP66(Standard),IP67 (Optional)
Electrical Connection	Cable Connector, Screw Terminals
Nominal Voltage	Ac 220v 50/60hz
Overload Protection	Thermally Protected 120° Cut-Out
Motor Protection	'F' Class Insulation
Gear Train	High Alloy Steel Gear Sets, Self Locking
Operation Range	On/Off 3-Point Control
Sensitivity	0.2mA/100 μ V
Feedback	Potential Free Contacts
Angle Of Rotation	Mechanically Limited To 90°C
Position Free Switches	SPDT 5a – 230 Vac
Ambient Temp.	-10°C To 80°C
Housing Type	IP65 (Standard)/IP68 (Optional)
Housing Material	Cast Aluminium Alloy (Epoxy Painted)

Mounting

All flange mountings are in accordance with ISO5211.
If different, please specify at the time of placement of order.



Optional Extras

- :: 12 watt anti-condensation heater
- :: Integrally mounted open/close and local/stop/remote selectors.
- :: 1 watt potentiometer for remote valve position indication.

Selection chart

BUTTERFLY VALVE SIZE	ACTUATOR MODEL	TORQUE GENERATED
80 MM – 100 MM	RC 744 – 8	100 Nm
125 MM	RC 744 – 10	150 Nm
150 MM	RC 744 – 15	250 Nm
200 MM	RC 744 – 20	400 Nm
250 MM	RC 744 – 25	500 Nm
300 MM	RC 744 – 30	1,750 Nm
350 MM	RC 744 – 35	2,000 Nm
400 MM	RC 744 – 40	2,000 Nm
450 MM	RC 744 – 45	2,750 Nm

