



Warmup offer three different types of actuator in the S-Series.

The WHS-C-D-CCT-230ACL actuator has a convenient green LED light to show when power is being sent and turns blue when the valve is open to identify when zones are operating. It has a plug in power cable which means there is no need to call an electrician if the actuator needs replacing, simply unplug and fit.

### Technical Data:

|                        |   |
|------------------------|---|
| Power Supply:          | 230VAC  |
| Power consumption:     | 1.8W  |
| Protection Class:      | IP54  |
| Electrical Protection: | Class II  |
| Opening time (230V):   | initial time 75 seconds<br>final time 3 minutes |
| Operation temp limit:  | 0 - 50 °C                                       |
| Fluid temp. limit:     | max. 110°C                                      |



The WHS-S-230AC & WHS-S-24AC actuators have a wax thermostatic element mounted in the actuators and are activated by a thermistor against a signal send from the thermostat.

When the thermostatic element expands it applies thrust required for automatic movement of the valve. The actuators have a transparent zone on the cover indicating when valve is open or closed. Red = valve closed , black = valve open.

The WHS-S-230AC operates on a 230v power supply whereas the WHS-S-24AC operates on a 24V power supply.

### Technical Data:

|                        |   |
|------------------------|---|
| Power Supply:          | 24 - 230 VAC/DC                                 |
| Power consumption:     | 2.5W  |
| Protection Class:      | IP44  |
| Electrical Protection: | Class II  |
| Opening time (230V):   | initial time 90 seconds<br>final time 3 minutes |
| Opening time (24V):    | initial time 3 minutes<br>final time 5 minutes  |
| Operation temp limit:  | 0 - 50 °C                                       |

