

# Sanitary Shut off Valve

## Product Code SOV-100

### (240v AC mains operated)

# INSTALLATION

## INSTRUCTIONS

please read carefully

**DESCRIPTION** The SOV-100 isolates water supply to toilet area when unoccupied to reduce minor water leaks in toilet blocks due to sanitary fittings. A range of shut off delays is provided and also a relay contact for connection to BMS.

**PLUMBING** Choose suitable location at which to fit valve - bearing in mind that future access may be required. Connect the valve(s) into the water supply pipe(s) to the area to be controlled. Ensure water supply is connected to valve inlet (marked with an arrow on brass body).

**ELECTRICAL** Fix SOV-100 enclosure in suitable location bearing in mind that future access may be required. Fit PG7 cable glands (supplied) into SOV-100 enclosure. Connect L N & E terminals of SOV-100 using 0.75mm 3 core cable to a convenient 240v supply, with a 3A fuse (in a spur box) or a 5A fuse (in a consumer unit),  
**SCREWLESS TERMINALS:** strip back cable 10mm, twist conductors, depress lever, insert fully, release lever!  
The SOV-100 **MUST** be earthed. Internal fuse is 500mA 20 x 5mm quick-blow glass.  
**Observe current and local wiring regulations!**

**SOLENOID VALVE** Wire valves to SOV-100 using 3 core 0.75mm cable and DIN valve connectors supplied.

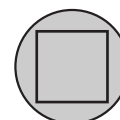
**SENSOR** Fix PIR sensor to detect persons entering or leaving area to be controlled eg on ceiling or wall next to door, following instructions supplied with sensor. Connect sensor to SOV-100 using 4 core security / alarm cable with red, black & yellow cores discarding blue core. Connect terminals 1, 2 & 3 on sensor to 1, 2 & 3 on SOV-100 using core colours shown on pcb.  
Note: a magnetic type doorswitch may be connected across terminal 1 & 2 as an alternative to a PIR sensor.

**RELAY CONTACT** This may be wired to a central Building Management System if required using suitable 2 or 3 core cable. **Note that the relay is energised when the valve is open.**

**COMMISSIONING / TESTING** When electrical and mechanical installation is complete turn on 240v supply to the SOV-100. The AMBER LED will indicate that power is on. Check that the RED LED flashes each time the PIR sensor is tripped. Check that the solenoid valve clicks open and that the BLUE LED shows.

**TEST MODE** When the blue TEST button is pressed the SOV-100 will give a 10 second shut off delay for 2 minutes to enable a quick operational check without the long wait!

TEST



**SETTING SHUT OFF DELAY** Select one or more switches to give the required delay (UP or ON to select)

10 20 40 80

**Times are additive**, for example:  
For 60 minute delay - select 20 & 40 mins (switches 2 & 3)  
The default (factory) setting is for shut off delay of 40 minutes

SHUT OFF DELAY  
(MINUTES)



**STATUS LEDS** These are provided for monitoring the operation of the SOV-100 as follows:

**AMBER** shows that 240v power is present to the control

**RED** will flash upon each change of state of the sensor input eg each time a person is detected

**BLUE** indicates that the solenoid valve is energised (open) allowing water to flow and also that the free contact is made

**Watersavers**<sup>TM</sup>

Earl Road Rackheath Industrial Estate  
Norwich NR13 6NT

**FOR TECHNICAL SUPPORT**

Tel 01603 720999 Fax 01603 721499  
email [technical@watersavers.co.uk](mailto:technical@watersavers.co.uk)  
website [www.watersavers.co.uk](http://www.watersavers.co.uk)