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SUNVIC

SPRING RETURN VALVES
(NORMALLY OPEN/NORMALLY CLOSED)

Series SZ actuators are suitable to operate 2 port ON/OFF valves, type ML/EML The valve is opened/closed when the actuator is energised, and a return spring is fitted which returns the valve to its de-energised position.

INSTALLATION INSTRUCTIONS

For qualified persons only. Not to be left with user

INSTALLATION

(1) Select location which is reasonably clean and has adequate access for fitting and wiring motor. Minimum clearance from wall to centre of valve body 45mm 1¾". Maximum temperature of water 93°C. Minimum 2°C. Ambient temperature must not exceed 52°C. Motor actuator must not be mounted underneath the valve body.

(2) **Install valve as follows:-**
- (A) Remove all protective materials from valve.
- (B) Remove all foreign matter.
- (C) Fit valve to pipework using the minimum quantity of joining materials. Make sure valve body is only gripped by the ribbed ends when installing. Do not cover valve with thermal insulation.

(3) Flushing of system.
Before fitting the motor unit to the valve, the valve spindle must be turned to the position as indicated on the valve, and the complete system flushed out and drained to remove any foreign material in the water. The system should be filled with water and corrosion inhibitor added, if required.

Actuators with manual levers permit flushing with actuator fitted. Ensure manual lever is in normal use position after flushing.

(4) Fit motor to valve as follows:-
- (A) Fit actuator to valve ensuring tongue on valve spindle engages with slot in plastic coupling on motor.
- (B) If installing to a new valve, use shoulder screws provided with the valve.
- (C) If installing to an existing valve, retain the screws and use these to secure the actuator to the valve.

Note: Shoulder screws permit slight axial movement between actuator and valve

WARNING

Interference with sealed parts renders guarantee void.
'Class A' disconnection providing electrical isolation for all live parts behind the disconnection, must be incorporated in the fixed wiring. Valves are not suitable for use on mains water supply. The valve and actuator should be in an easily accessible position for any possible maintenance. It is recommended that valves and actuators be checked during regular annual heating maintenance.

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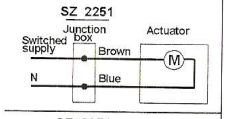
This product complies with the essential requirements of the following EC directives:
Electro-magnetic compatibility directive EMC 89/336/EEC (as amended by 91/263/EEC and 92/31EEC)
Low voltage directive LVD 73/23/EEC; 93/68/EEC

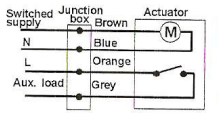
Installation leaflet LE/0408/0022 issue 1 August1999

SZ

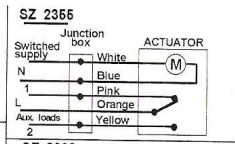
SZ 2251



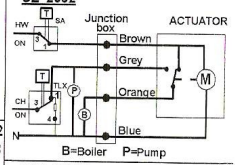
SZ 2351



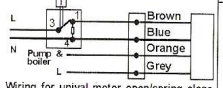
SZ 2355



SZ 2302

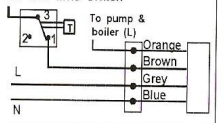


SZ 2301 plus variants. SZV 2212 plus variants 2212F, 2218, 2228



Wiring for univalmotor open/spring close TLX room thermostat

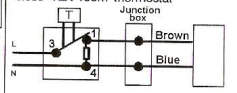
To HW time switch



Wiring for Univalmotor open/spring close SA cylinder thermostat

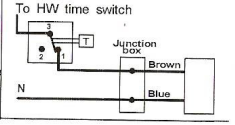
SZ 2201

Wiring for univalmotor open/spring close TLX room thermostat



Wiring for univalmotor open/spring close. SA cylinder thermostat.

To HW time switch



Actuator	Valve	Switch
SZ 2201	Normally closed	None
SZ 2251	Normally open	None
SZ 2301	Normally closed	Nor.open
SZ 2301F	Normally closed	Nor.open
SZ 2302	Normally closed	s.p.d.t.
SZ 2351	Normally open	Nor.open
SZ 2355	Normally open	s.p.d.t.
SZV 2212	Normally open	Nor.open
SZV 2212F	Normally open	Nor.open
SZV 2228	Normally open	Nor.open
SZV 2218F	Normally open	Nor.pen

Suitable alternitive room thermostat
TLX 2259 TLX 2222
TLX 2358 TLX 2910

Suitable hot water cylinder thermostat
SA 1452
SA 2452

WIRING

Electrical supply details are shown on cover label. Connections to the actuators **must** be made in accordance with the wiring diagram for the correct operation of the system.

In line with a policy of continuous product improvement, Sunvic Controls Ltd. reserves the right tochange the specification, design and materials of products without prior notice.