

# ODE SOLENOID VALVES

## A INSTALLATION

Before mounting the valve, it is essential to check that the solenoid model, and voltage correspond to the product ordered. i.e. Water Guard, Touch Flush, Touch tap, Zurn Z-6190 or 6195-WG all require 230V AC. Sensatap and Warden requires 24V AC. **NOTE:** All ODE solenoid valves are manufactured to suit use with MacDonald Industries products. They are not designed for long periods of energization. Using ODE valves for any other purpose than for use with our products will render warantee void.

## B PLUMBING

- 1) Assembly of the valve must correspond with the flow direction indicated with an arrow on the valve body.
- 2) Where there is a possibility of water hammer, fit a Wilkins 1250 arrestor of the appropriate size.
- 3) Care should be taken to ensure foreign bodies are prevented from entering the valve during plumbing up. e.g. brass or copper swarf, plastic tape or hemp.
- 4) The valve should preferably be mounted vertically with the coil uppermost. **Under no circumstances should it be mounted with the coil beneath the body - potential for condensation to enter the coil.**
- 5) Ensure sufficient space is given around the valve for any future maintenance.
- 6) Never use part of the coil or stem as a lever when tightening up the valve.
- 7) Where impurities are likely in the water, it is recommended that a strainer be fitted.
- 8) Although the DIN connector is water proof, the coil does get quite hot during normal use and may blow if subjected to high humidity or water drips. Use in a well ventilated, dry area.
- 9) Avoid open ended pipes which may cause pressure differentials greater than 100kPa across the valve. Damage to diaphragm may occur.

## C ELECTRICAL

- 1) Check voltage marked on coil corresponds to the specified need (see Section A above).
- 2) Where applicable connect Earth wire to terminal connector.
- 3) The coil should not be energised before mounting onto the valve stem.
- 4) Position the coil to the most suitable position by loosening the nut on top and rotating. Tighten the nut when in position.
- 5) DIN plug should face down to avoid moisture ingress.

## D WORKING TEMPERATURE

- 1) It is normal for the valve coil to increase in temperature during operation. Irregular overheating will cause smell of burning and/or smoke. In this case isolate the supply immediately.
- 2) Care should be taken to not mount the valve near sources of heat or to enclose the valve so natural heat does not dissipate.
- 3) If brazing or welding is to be done nearby, remove the valve to prevent possible damage. The valve body should not exceed 150°C - damage to valve is likely.

## E MAINTENANCE

- 1) Only after disconnecting the power supply, and discharging line pressure, may the valve be disassembled.
- 2) Clean and inspect all parts and replace only with genuine ODE spares available from MacDonald Industries Ltd.
- 3) Remount all parts ensuring threads are correctly aligned and seals are watertight.



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