

TRAP PRIMER

Electronic timer controlled trap primer

Features:

- Reliable solenoid valve operation
- Not influenced by other valve operation
- Solid state electronics



**MACDONALD
INDUSTRIES LIMITED**

Model SV1/TP

The MacDonald SV1/TP electronic timer controlled trap primer is designed to maintain a permanent trap seal in floor wastes.

Where floor, sink or shower wastes or gulley traps are infrequently used due to remote location or where high ambient temperatures or high airflow movements are likely to cause excessive trap tryout, the MacDonald Model SV1/TP should be installed.

Mechanical trap primers work, when other plumbing fixtures are operated, thus initiating a pressure drop in the supply line. The inherent failure of these types of devices to provide the necessary seal, is because the area where trap dryout is most likely, is where taps and valves are not being used anyway.

Because the SV1/TP does not rely on pressure drops, it is able to maintain the trap seal even when the building is unoccupied.

Installation

The SV1/TP can be installed in a standard 93mm wall cavity or in the ceiling space. Because it is supplied with a compliant airgap backflow preventer it complies with The Building Act under AS1/G1 Acceptable Solutions. Depending on your Council requirements the airgap may be required to be registered.

The airgap must be set at least 300mm above the finished floor level or trap (whichever is the higher). The airgap and flow regulator must be installed vertically to prevent spillage however the solenoid valve can be installed horizontally if preferred.

The solenoid valve supplied is a standard 230V AC normally closed solenoid valve. Electrical connection by others.

The solenoid valve is fitted with an adjustable automatic timer which has trim pots that allow adjustment to solenoid "ON" time and solenoid "OFF" times. The timer is preset to minimum ON and maximum OFF times. Adjust as necessary to suit the application. The chart (right) shows approximate daily water use.

Each SV1/TP is supplied with a 2L/min flow regulator to limit flows and a 15mm inlet ball valve to allow for set isolation should servicing be required. Where water hammer is possible install a Wilkins Model 1250A water hammer arrestor.

Specification

Supply voltage: 230V AC 8W

Pressure range: 100 - 500 kPa (recommended 300kPa)

Operating temperature: 2 - 60°C

ON times: 0.5 - 10 seconds

OFF times: .05 - 45 minutes

Scale Accuracy: 10%

Inlet/outlet connection: 1/2" BSP

Valve set supplied loose in kitset, plumber to assemble and install to instructions supplied.

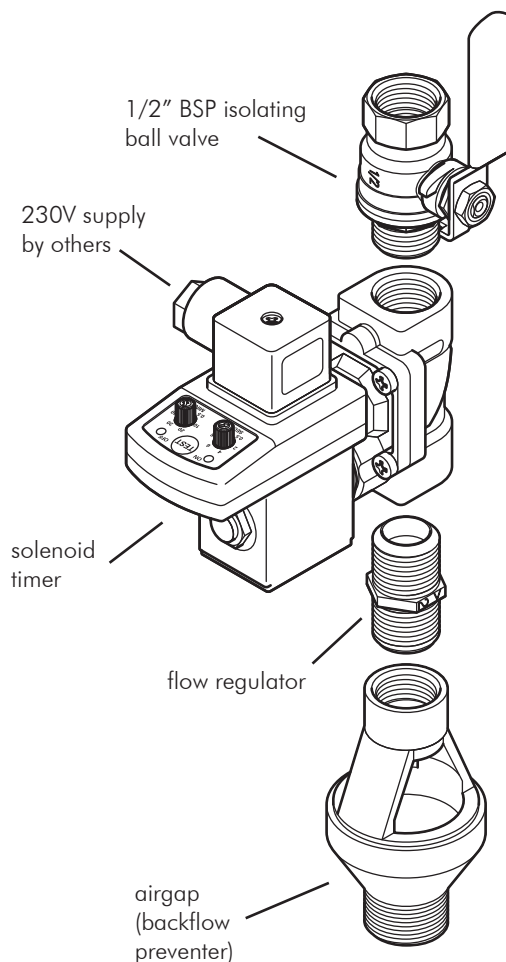
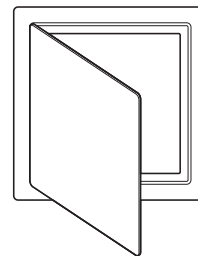
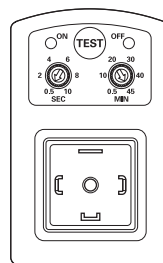


CHART OF WATER USE (LITRES/DAY)

* preset

OFF TIME (minutes)	10	20	30	40	45*
ON TIME					
05*	2.4	1.2	0.8	0.6	0.5
1	4.8	2.4	1.6	1.2	1.06
1.5	7.2	3.6	2.4	1.8	1.6
2.0	9.6	4.8	3.2	2.4	2.1
5	24	12	8	6	5
10 (seconds)	48	24	16	12	10.6



Optional:

MacDonal Model HA1414 350 x 350 Handi-Access panel for installation in wall or ceiling to provide access to valve set



**MACDONALD
INDUSTRIES LIMITED**

**20 Carr Rd
Three Kings
Auckland 1042**
p - 09 624 1115
f - 09 624 1110
e - sales@macdonaldindustries.co.nz
www.macdonaldindustries.co.nz
www.macdonaldgreen.co.nz

Wellington:
p - 04 569 8033
f - 04 569 8066
e - wellington@macdonaldindustries.co.nz

Christchurch:
p - 03 348 2356
f - 03 348 2376
e - christchurch@macdonaldindustries.co.nz