



AVOID THIS



BY USING THIS



THE 'INTELLIGENT' AUTOMATIC STOPCOCK

- GUARDS AGAINST FLOOD DAMAGE 24 HOURS / DAY
- MONITORS WATER FLOW AND TERMINATES MAINS WATER SUPPLY IF UNUSUAL CONTINUAL FLOW OF WATER OCCURS (BURST PIPE RISK)
- TERMINATES WATER IF NO WATER FLOW FOR PRE-SET TIME PERIOD(VACANT PROPERTY)
- MONITORS AMBIENT TEMPERATURE AND TERMINATES WATER SUPPLY IF THE TEMPERATURE FALLS BELOW 3 DEGREES CENTIGRADE (RISK OF FREEZING)
- MANUAL WATER SWITCH SITUATED AT A LOCATION OF YOUR CHOICE ALLOWING YOU TO TURN THE MAINS WATER ON / OFF MANUALLY WITH EASE
- OVER-RIDE SWITCH ENABLING YOU TO HAVE CONTINUOUS WATER (WASH CAR / WATER GARDEN)
- DESIGNED AND MADE IN GREAT BRITAIN
- WRAS and BSI APPROVED VALVES
- CONFORMS TO POINT 16 OF "LIFETIME HOMES DESIGN" CRITERIA
- 10 YEAR GUARANTEE

T&D THORNE &
DERRICK UK

Tel: +44 (0)191 490 1547

Fax: +44 (0)191 477 5371

Email: northernsales@thorneandderrick.co.uk

Website: www.heatracing.co.uk
www.thorneandderrick.co.uk



Overview of 'Escape of Water' Issues

In the UK properties are supplied, almost without exception, with water via a mains water feed supply coming directly into the property separated only by a manual stopcock which is left open. This method of supply leaves the property vulnerable to an internal flood if there is a breach in the internal water system leaving up to 1,000 liters of water per hour to flood into the property via the mains water supply.

Recent winters have seen an increase in the number of instances where internal flooding has taken place and due to the ever increasing cost of repair the monetary damage has been astronomical – totalling over £1 billion in 2011 according to AXA Home Insurance statistics.

Recent “escape of water” statistics show:-

- Nearly 1 in 5 claims made on Buildings and contents insurance are caused by escape of water*
- An estimated 9.7 billion litres of water per year are lost through leaking domestic appliances*
- An Escape of water claim is 3 times more likely than a theft claim and 13 times more likely than a fire claim**
- Average contents claims are £6100 and the average buildings claims are £19,200

*Research by Homeserve 2009

** Data from AXA Home Insurance claims statistics.

Product History

Apart from the risk of massive internal flooding a manual stopcock device installed in a property (as above) has the following inherent problems:

- **Location** – *Usually located at the back of cupboards or in a location that is hard to get to in an emergency. In fact many homeowners do not know where their stopcock is located.*
- **Operation** – *Due to the material and low usage of a stopcock, in many cases it has seized up and will not operate when needed most.*

It is against the above backdrop that the Autostopcock invention was first conceived in 1993 by William Visser, an electrical engineer by trade.

Originally designed to overcome the challenges above, the product was manufactured as an electrical switch, situated remotely from the mains water valve, making it easy for a homeowner to turn their mains water on and off.



This first product was marketed under the name of 'TapOff' to reflect the purpose of the invention, and enjoyed the status of being part of the Millenium Products collection due to its innovative and unique nature.

During the turn of the decade winters started to become harsher in the UK and the incidents of flooding due to burst pipes increased. Due to these events the TapOff product was re-engineered to offer a new innovative Intelligent Water Switch which was launched as the 'Autostopcock' to reflect the upgraded features of the invention.

Keeping with the original ethos the Autostopcock is designed and made in Great Britain using WRAS / BSI approved fittings.

Specification

- The Intelligent Autostopcock is available in a 15mm unit (ASC002) and 22mm unit (ASC003) which can adapt to any home whilst the design of control unit allows it to be fitted in place of a double gang socket aperture, also allowing for a surface or recessed fitting method therefore blending into any room decor.
- Due to being battery operated there is no need for time consuming and expensive re-routing of electricity supplies and the switch can be fitted by a keen D.I.Y enthusiast or a plumber in approximately one hour – A nationwide network of *Autostopcock Approved Installers* are available to *install your new switch*.
- The Autostopcock is supplied in a 'turn key' kit containing everything required for a simple installation in a property (see below kit)





Full Specification Features

Feature	15mm (ASC002)	22mm (ASC003)
WRAS approved valve	Yes	Yes
BS6920 approved fittings	Yes	Yes
Remote switch-any distance from valve	Yes	Yes
Electric switch to turn water on / off	Yes	Yes
Battery operated (average 3 year life, battery not included)	Yes	Yes
Optional mains operated (special order)	Yes	Yes
Audible battery low alarm	Yes	Yes
BRASS Bodied Valve	Yes	Yes
Low temperature cut-off 3 degrees Centigrade	Yes	Yes
Excess water flow cut-off Factory set 45 minutes*	Yes	Yes
Vacant property cut-off Factory set 72 hours*	Yes	Yes
Constant flow over-ride switch	Yes	Yes
Self exercising valve – every 7 days	Yes	Yes
Working pressure	0.35 to 10 bar	0.35 to 10 bar
Standard power source	Alkaline PP3 battery	Alkaline PP3 battery
Display	Liquid crystal	Liquid crystal
Low battery warning	Audible alarm 4 weeks before fail	Audible alarm 4 weeks before fail
Frost protection	Auto shut off below 3 degrees c	Auto shut off below 3 degrees c
Control panel size (mm)	145 x 85 x 30	145 x 85 x 30
Water Connections	15mm compression	22mm compression
Cable	4 core 1.00mm flex (1m supplied)	4 core 1.00mm flex (1m supplied)
Over-ride	Reset from main switch	Reset from main switch
Water flow detection	Min 0.5ltr / min	Min 1.0ltr / min

*** Bespoke orders with alternative settings from above can be made.**



Auto stopcock

The main elements of the Intelligent Autostopcock

Main Remote Switch

This can be located away from the mains water valve and is connected via a 4 core cable. The remote switch contains the 'brain' and an LCD showing the status of the valve (on / off / over-ride) and a temperature gauge allowing the unit to turn off the mains water if the temperature falls below 3 degrees.

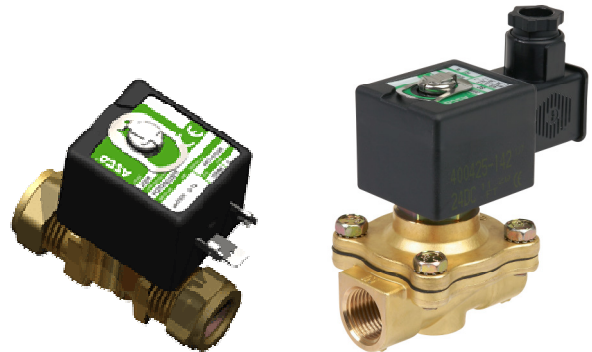
The unit is battery operated and contains an audible alarm which warns when the battery is running low.



Mains Water Valve

For complete peace of mind the Intelligent Autostopcock is supplied with a highly specified Brass valve which is WRAS approved and produced by ASCO numatics. This is offered in both the 22mm and 15mm version with compression fittings.

This valve is fitted in line with your conventional stopcock where the mains water enters the building. When the remote switch is activated it will turn the water valve on / off.



Flow Sensor

A flow sensor (also WRAS approved) is coupled with the water valve which in turn allows the switch to measure the time of water flow.

If the water flow in the property runs continuously for more than 45 minutes* it indicates there has probably been a rupture in the pipes therefore the switch will turn the mains water off.

Also if there is no water flow for more than 72 hours* it will indicate the property is vacant and the switch will turn the mains water supply off.

**Time out settings are factory set and can be manufactured to your specific requirements.*



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