

Shuts Off Water Supply to Taps Prevents Bath Floods Saves water and energy Requires no electrical supply or maintenance Automatic reset when taps are turned off

Flood damage from overflowing baths can be costly. Repairs and replacements are expensive and taking rooms out of use reduces hotel income. When floods occur in multi storey buildings the inconvenience and costs are multiplied dramatically. Taps left running in baths and SPAs occurs accidentally - it can also be malicious.

Nova-Flo™ is a simple solution to the problem. Invisible to the bath user, it requires no extra sensor to be fitted inside the bath and no power supply to operate. It is intuitively self re-setting and maintenance free.

Nova-Flo™ has been designed for easy installation and retro-fit using John Guest Speedfit™ push fit connections. It must be located between the overflow outlet and the waste with adequate fall between them.



How Does Nova-Flo™ Work?

Nova-Flo™ is connected to the overflow pipe between the inlet and the waste trap. The hot and cold supply pipes are connected either side.

When water enters the inlet to the overflow pipe it fills the central chamber in the Nova-Flo™ unit.

A float in the chamber activates a valve that shuts off the supply pipes. A trickle of water is allowed through the valve and taps keeping the system in the shut off position.

When the taps are closed and the water level drops below the level of the overflow inlet, the central chamber drains, the float drops and the shut off valves reset to the open position. When the taps are turned on again they revert to full flow.



Efficiency

Nova-Flo™ has only three moving parts. It uses no electricity, being entirely mechanical in operation. Resetting the system after shut off is entirely intuitive. No user instructions are necessary and, if the installation is hidden by a bath panel, there is no need for anyone to know that a flood prevention device is fitted.

Maintenance and Servicing

Under normal usage conditions Nova-Flo™ requires no maintenance or servicing. However it is recommended that a bi-annual check is carried out to confirm correct functioning of the unit. If foreign matter is obstructing the movement of the float in the central chamber then cleaning will be required but access is very simple.

Statutory Compliance

Nova-Flo™ has been submitted for WRAS approval.

Location

Nova-Flo™ must be installed in a fixed vertical plane so that the overflow passes through the central chamber by gravity to waste. The hot and cold lines must be plumbed in either side of the central chamber. If the user has only a single hot or cold feed, one inlet connection can be used on its own.

Nova-Flo™ is supplied with John Guest push fit fittings on the outflow and male connections for John Guest fittings on the supply side. The direction of inlet flow must be vertically upwards through the unit. Service valves should be installed prior to the unit. Access should be provided so that the unit can be serviced if cleaning is required.



Sizing

Nova-Flo™ supply connections are 22mm. The supplied overflow barb connections are male either 3/4" or 1"

Dimensions

Height: 153mm
Width: 230mm
Depth: 68mm

Operating Parameters

Water Pressure	Maximum static	8 Bar	115 psi
	Maximum working	12 Bar	180 psi
	Minimum	1/2 Bar	7.5 psi
Flowrate	Maximum	140 Litres/min (70 Litres/min per supply hot or cold)	
Water Temperature	Maximum	60°C	140°F
	Minimum	4°C	40°F

Suggested Specification

An automatic mechanical overflow prevention device shall be fitted to the hot and cold inlet pipes and be activated by the overflow outlet. It shall be WRAS approved.

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