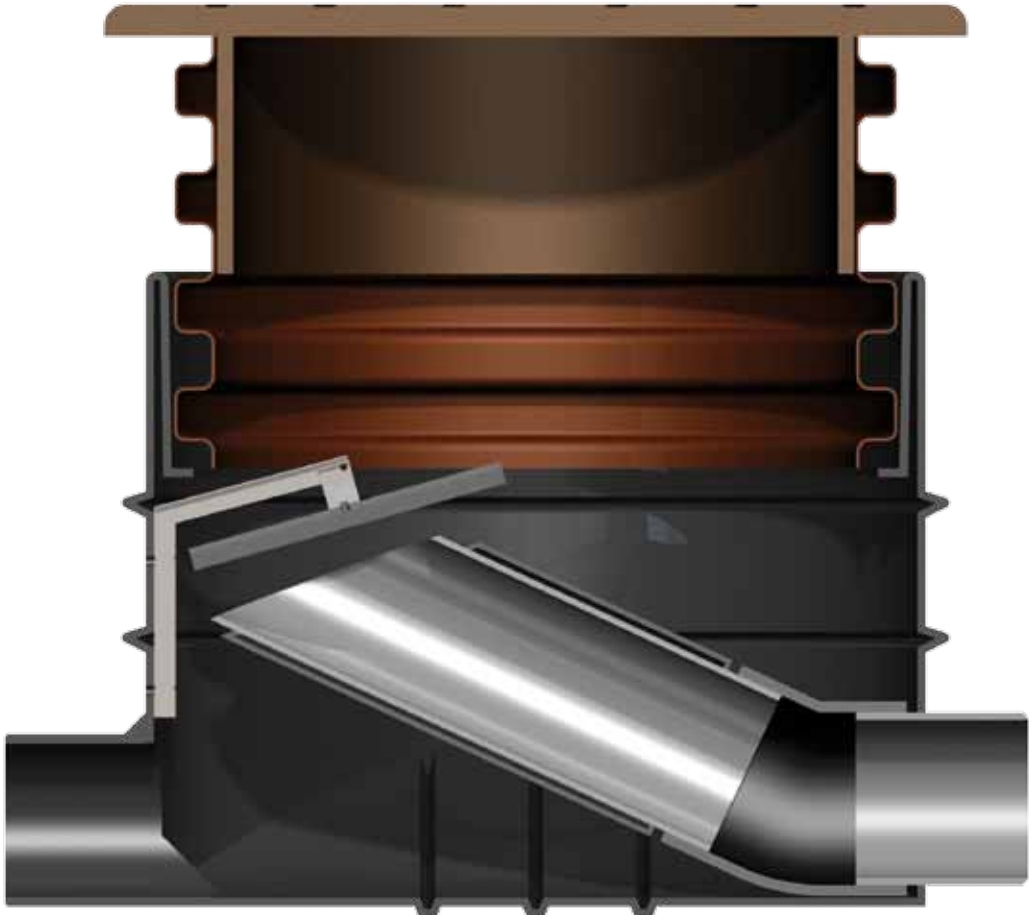


# The Non-Return Chamber



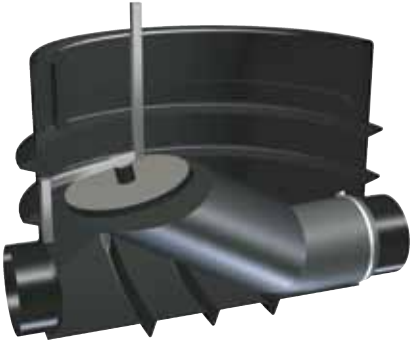
# The non-return chamber

## Why WaBack?

WaBack is a manhole which is installed outside the building in the waste water pipes and acts as a non-return valve. WaBack is extensively tested and has been installed by councils in Sweden, England, Germany, Austria, USA and many other countries. Since 1988 WaBack has prevented thousands of potential floods!

Flood water is typically heavily polluted. WaBack, in contrast to other products, is constructed to easily handle polluted water. WaBack differentiates itself from other products in several ways. Most importantly the pipe is completely open during normal operation, minimising risk for operation interruptions and minimising maintenance. WaBack is approved according to CE certification and is continually tested according to the applicable standards.

WaBack functions as both a back flow valve and an inspection well. This allows an 'all-in-one' installation reducing installation costs.



## Basement Flooding Protection

Installing a WaBack in the properties service pipes provides protection against basement flooding in areas where flooding is a risk.

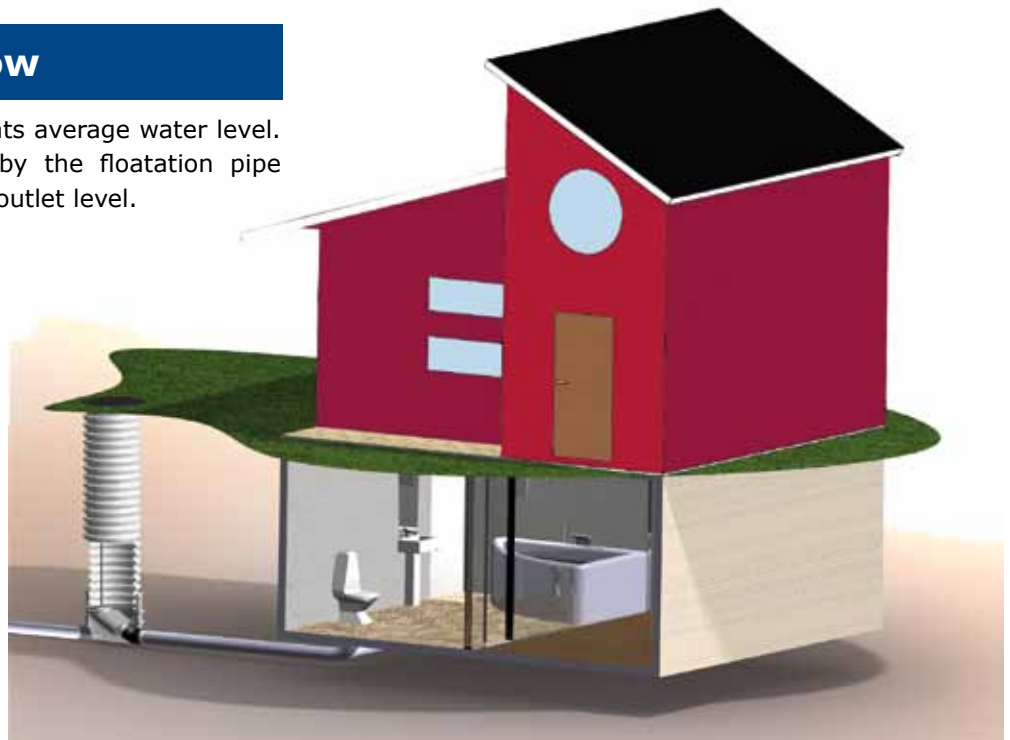
WaBack is even available in a mini-size for installation in basements.

## Storm Water Drainage

Low lying surfaces can become flooded due to high water levels causing a back-flow into the storm water drainage system. This problem can be easily resolved by installing a WaBack non return valve in the storm water drain.

## Overflow

WaBack is placed at the recipients average water level. The outlet level is controlled by the floatation pipe allowing for the lowest possible outlet level.



# The non-return chamber



## WaBack Case Study

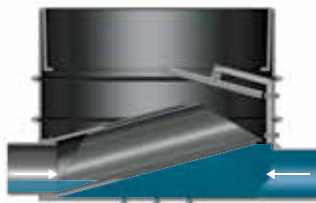
Steen Jensen lives in a housing area on the Danish island of Fyn. Many inhabitants have suffered from basement flooding in recent years. Some residents have installed simple flap valves but Steen decided to install the WaBack. The product was slightly higher in price, but a much safer option. Since the installation many of Steens neighbours have suffered from further flooding, whilst Steen and his family stayed dry!

In Steens words "Now I can go on holiday without having to worry about returning to a basement filled with water!"

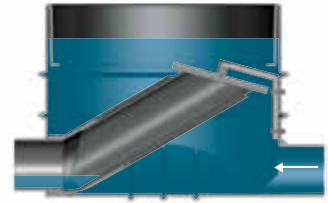
## WaBack Function



WaBack valve in normal position. It works as an ordinary manhole. The waste water flows freely through the valve without restriction thereby eliminating blockages.



Water enters the manhole in the wrong direction. The flotation pipe is kept above water level. Rising water is prevented from flowing back into the pipe system.



The water level has risen and the valve is completely filled. The mouth of the pipe is pressed against the sealing disk. The water level can rise above the pipe without any risk of back-flow into the system. The pipe returns to its original position when the water level in the valve drops.

## Product Dimensions

Art Nr.	Inlet. Dim/DN			Shaft
wb110-600	110	H=400	OD Ø 720	Ø 600
wb160-600	160	H=400	OD Ø 720	Ø 600
wb200-600	200	H=1100	L=1500	Ø 600
wb315-800	315	H=1200	L=1700	Ø 800
Accessories	Cover, shaft			

### WaBack Mini for installation in a basement

wb110-mini	110	H=280	Ø 400	
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# The non-return chamber

## WaBack Case Study

A torrential downpour hit Kalmar, Sweden in the summer of 2003. Many residents suffered badly from the flooding. Roads, basements and fields were filled with water. Some of those affected installed a WaBack for protection during future floods. Just a few months later came another downpour. Those who had installed a WaBack suffered no further damage whilst their neighbours who didn't install a WaBack once again suffered from flooding. After that many more installed WaBack non-return valves in the service pipes to avoid damage from future storms.



## Tested and Certified

The WaBack non-return valve has been thoroughly tested by both laboratories and councils in Sweden, Norway and Denmark. All tests show that WaBack is effective in stopping flooding caused by back-flow and that it requires minimal maintenance. WaBack is certified for use in storm water and sewage systems. CE approved for back flow protection in sewage and drainage systems. SS-EN-13564-1:2002.

## Wapro Products

### Wapro developed products:

- WaStop check valve
- WaReg flow regulator
- WaBack non-return chamber



## Contact



Distributed By:  
Flow-Liner Systems, Ltd  
Main Office: 4830 North Pointe Drive  
Zanesville, Ohio 43701  
Sales Office: 4449 Easton Way  
Columbus, Ohio 43219  
1-800-348-0020

