



# Backflow Prevention Valves

In line with the tradition of pioneering many innovative products, the Supreme is pleased to introduce yet another value added product "backflow Prevention valve". Backflow prevention valves are normally used to safeguard private underground drainage system or prevent flooding of buildings in case of surface water backflow through underground drainage system. Installed on a building's lateral sewer, connecting individual houses or properties with the public sewers, this one way valve prevents the backflow from public sewer.



## Unique features

- Strong and sturdy design
- 100% Watertight
- Prevents black-flow from sewer and rain water lines
- Large rubber seal area for effective sealing
- Simple and quick installation
- Automatic operation
- Removable lid for quick and easy maintenance
- Designed to protect against ingress and damage by rodents
- In case of maintenance, valve can be closed in both directions

## Causes of backflow

- High peak flow in the event of heavy rains
- Under sizing or wrong design of public sewers
- Low lying areas
- Blockages in the downstream sewer network
- Increased population density causing extra load on sewers

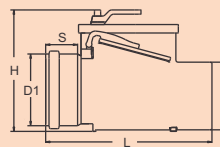
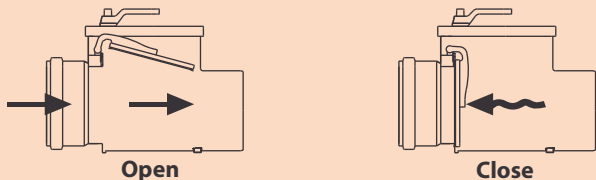
## Application

- Properties built with the lowest floor containing plumbing fixtures (bathtub, shower, floor drain, etc.) below the upper manhole of the public sewer.
- Properties in flood prone areas.
- Properties with a history of backups during heavy rains.

## Function

A back flow prevention valve has an internal mechanical disc (flap) that will automatically close a sewer pipe opening when reverse surcharges from a public/private sewer system attempt to enter a building drainage system, thus it prevents the flooding of a building with raw sewage.

## Dimension details

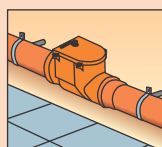


D	D1	L	H	S
160	160	393	287	75

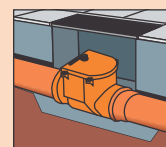
(all dimensions are in mm)

## Installation

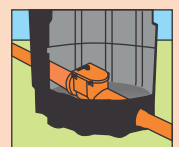
Valve should be installed on leveled and compacted surface or concrete floor and should be protected from any damage. This can be used in three ways as shown in the following pictures.



Free hanging or with exposed pipe



Underground in concrete slab



Outdoor in underground chamber