

# FlapValve 100-500mm

The original maintenance free flapvalve



**KWT flapvalves are very varied and can be used in surface, sewer and process water systems. They are a very simple yet effective way to reliably prevent backflow into the system.**

**Various mounting methods are available to increase the versatility of the products, and they can also be easily modified for special requirements.**

The flapvalve is a traditional method of preventing backflow in pipelines and reduce the effects of flooding. The KWT flapvalve uses modern materials and techniques, and the correct type is easily selected using our tried and tested calculation program. All our products are carefully calculated for strength and are produced using only high quality, pure materials.

A flapvalve consists mainly of a plate that is hinged at the top, connected to a mounting frame. It therefore forms an on-seated seal on the front of the culvert/pipe. Water discharging from the pipe opens the flap, however when the head increases on the downstream side, the flap is pressed against its seal, preventing backflow. KWT flapvalves require only a small head in the pipe to open the flap, as HDPE floats in water- the flapvalves are fitted with a counterweight to balance the flap correctly.

The flapvalve is light in weight, making the flapvalves easy to install, very responsive and also very reliable. The valves are available in various forms, such as the vertically hung flat wall mounted type, as well as pipe mounted, flange mounted and angled wall mounted (mounted on a 15° backward angle to reduce the effect of waves and ensure a good seal).

KWT produces discharge and pump valves as standard in sizes from 100mm diameter upwards, and are happy to assist where something special is required.

**Easy to install- no grouting required  
Light weight strong HDPE construction  
Virtually maintenance free  
UV & Impact Resistant  
Standard sizes available from stock for quick dispatch**



## Technical Specification:

Sizes:	Ø 100 mm to Ø 500 mm
Operating pressure:	Maximum 5MwC Short term
Valve cover angle	15° as standard except for flat-wall mounted models
Higher pressures and larger dimensions on request. Various connection options such as: PVC/HDPE tube, flange, wall, under an angle, concrete/SPIROsol.	

## Materials

Valve plate:	HDPE
Back plate:	HDPE
Shaft and ballast weight:	SS316
Seal:	EPDM seal

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