CONTENTS

Non Return Valves

KWT®flapvalve type: KLK 100-500

Application

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.

Operation

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 it's 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.

Type: KLK-R-O

Specifications

Sizes:	Ø 100 mm to Ø 500 mm
Operating pressure:	Maximum 5 MwC
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

Benefits

Easy to install- no grouting required

Relatively light in weight because HDPE is used.

Virtually maintenance free.

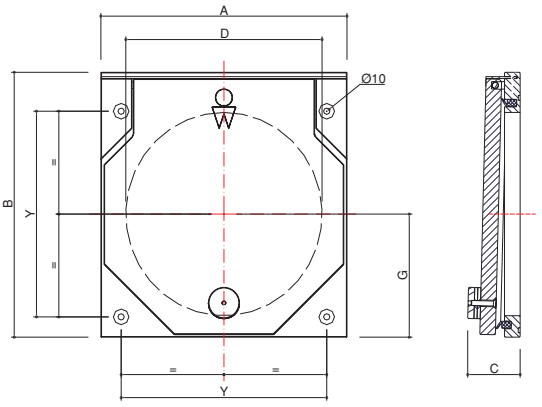
UV & Impact Resistant

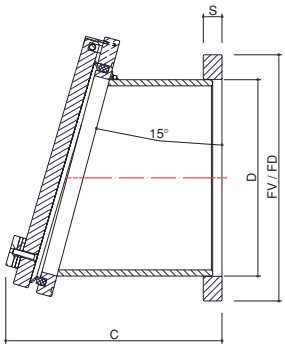
Standard sizes available from stock for quick dispatch

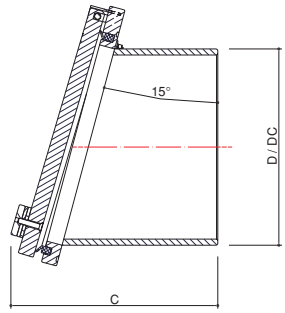
Supplied by
ACE AQUATIC CONTROL ENGINEERING LTD
Hall Farm, Main Street, Rampton, Notts, Dn22 0HR.
Phone 01777 249080, Fax 01777 249069
www.aquaticcontrol.co.uk
Email: info@aquaticcontrol.co.uk

CONTENTS

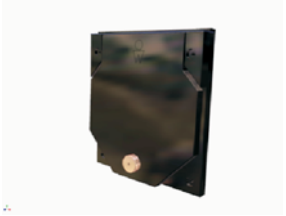
KWT® Flapvalve type: KLK 100-500



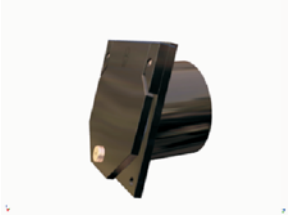




Weight kg				
O	P	BS	OH	F
2	3	-	3	3
2	3	-	3	3
3	3	-	4	4
4	5	-	6	6
5	6	-	8	8
6	8	10	11	10
9	13	16	16	16
13	18	23	22	22

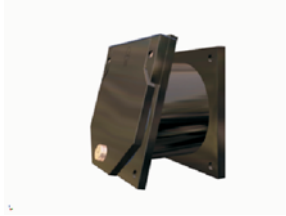


KLK-R-O

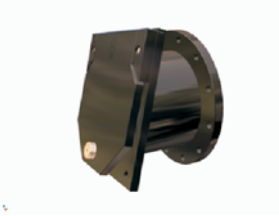


KLK-R-P

KLK-R-BS



KLK-R-OH



KLK-R-F

				type O		type P		type BS			type OH / F						
NW	D	A	B	C	C	C	C	C	C	DC	C	C	FV	FD	S	G	Y
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
					open		open		open			open		Ø			
100	110	190	220	75	230	225	345	-	-	-	235	355	190	220	20	95	150
125	125	205	235	75	245	225	355	-	-	-	235	365	205	220	20	102,5	155
150	160	240	270	75	280	225	380	-	-	-	235	390	240	285	20	120	180
200	200	280	310	75	315	325	510	-	-	-	340	525	280	340	30	140	230
250	250	330	360	80	360	330	545	-	-	-	345	560	330	395	30	165	280
300	315	395	425	85	425	335	595	585	845	290	350	610	395	445	30	197,5	330
400	400	480	510	95	510	400	710	595	910	390	410	725	480	565	30	240	420
500	500	580	610	105	600	400	785	605	985	490	420	800	580	670	30	290	520

Product Overview

Flap valve, KLK 100-500 type
Manufactured by: KWT Waterbeheersing
Materials: HDPE, SS316, EPDM
Standard passage: Ø 100 mm to Ø 500 mm
Working pressure: Maximum 5 MwC

The valve plate and the back plate are produced using HDPE. The hinge pin and ballast weight are produced in SS316 as standard. The ballast weight can be easily adjusted if required. The sealing arrangement consists of an EPDM lip seal in the back plate. The valve plate is also installed on an angle in relation to the back plate to ensure a good seal.

© KWT® Biddinghuizen KWT reserves the right to modify the design without prior notification