

ACU-FLAP Check Element

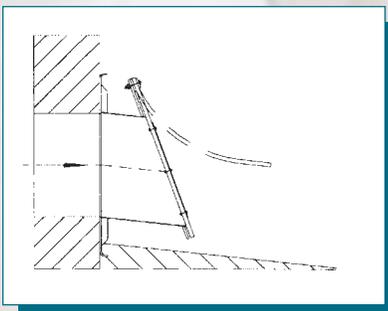
The Clear Solution

Application

ACU-FLAP check elements are especially suited for the prevention of flooding caused by high downstream water levels. The check elements are equipped with flexible elastomeric covers (or flaps) that act as seals. The most important feature of the ACU-FLAP is its modular construction. They are well suited for new designs or can be easily retrofitted to accommodate existing structures.

Operation

The ACU-FLAP is equipped with a flexible elastomeric cover mounted over the discharge opening that acts as a seal during normal water level conditions. If the downstream water level rises, the flap presses against the sealing edge of the discharge opening so that the water from the receiving stream cannot flow back into the sewer or tank system. If the upstream water level rises, the hydrostatic pressure opens the elastomeric cover, allowing the water to flow. The ACU-FLAP has a very low hydraulic resistance so as not to adversely affect the upstream hydraulic grade line.

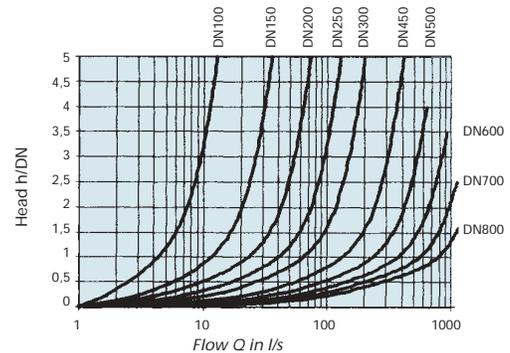


Sectional view

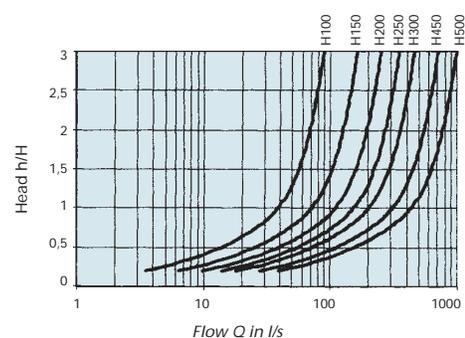


Circular ACU-FLAP
Check Element

Selection diagram for circular ACU-FLAP



Selection diagram for rectangular ACU-FLAP

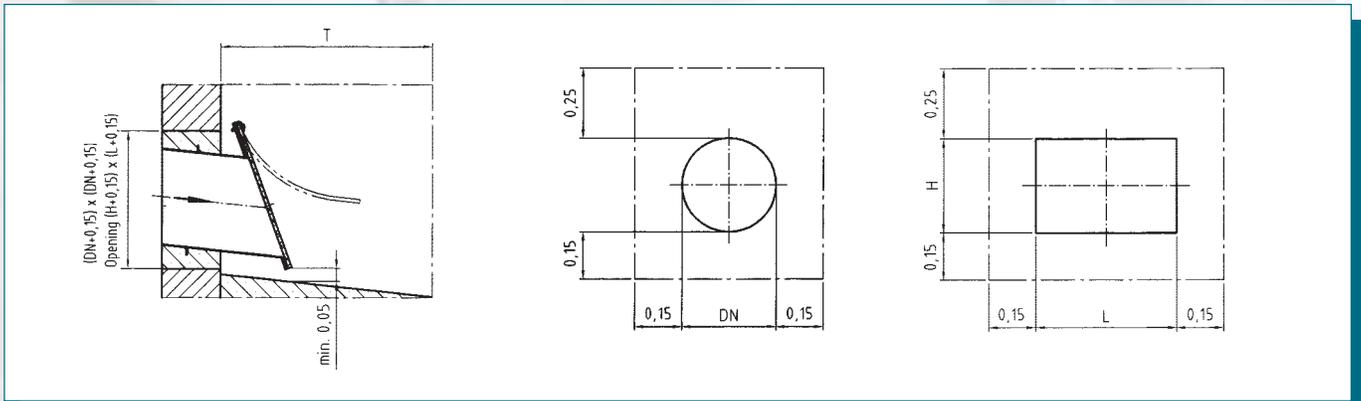




Typical installation: The **ACU-FLAP** Check Elements at overflow structure.

Installation Data For Acu-flap Check Element

Clearances For Proper Operation (All Dimensions Are In Meters)



Dimensions and selections for anchoring backflow protection elements:

Circular, Dia. DN	[mm]	100	150	200	250	300	400	500	600	700	800
Installation Access	[m]	Dia. 0.625			Dia. 0.80		Dia. 1.00		Dia. 1.20		
Rectangular L x H	[mm]	L x 100	L x 150	L x 200	L x 250	L x 300	L x 400	L x 500	-	-	-
Dimension T	[m]	0.60	0.65	0.70	0.75	0.80	0.90	1.00	1.10	1.20	1.30

Modular construction in standard lengths of 0.60 m, 0.90 m and 1.50 m.

Special lengths up to 4 m available upon request.

Size of installation access for rectangular backflow protection elements depends on particular project and varies with dimensions and depth of structure.

Represented locally by: