



## HydroFlap Non-Return Flaps

Reliable backwater protection  
for sewers and ancillary structures

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## The Function

Steinhardt **HydroFlap Non-Return Flaps** allow water to flow in only one direction. They are easy to open and secure when closed due to flexible cover bearings. Fixed by wall flange or DIN flange to Client's requirement. Material: stainless steel, bearings brass/zinc alloy, flexible seal.

## Suitable for Flood Protection

Steinhardt **HydroFlap Non-Return Flaps** protect against discharging into floodwater. Unwanted flooding of the sewer network becomes a thing of the past.

The **HydroFlap Non-Return Flaps** are manufactured from stainless steel and operate reliably even after long periods of inaction. They consist of a frame fixed to a concrete wall, durable bearings and a robust flap (please indicate maximum h/UW). Optional counterweights can be designed to lessen resistance.

### HydroFlap Non-Return Flaps DN 200 up to 1200 mm

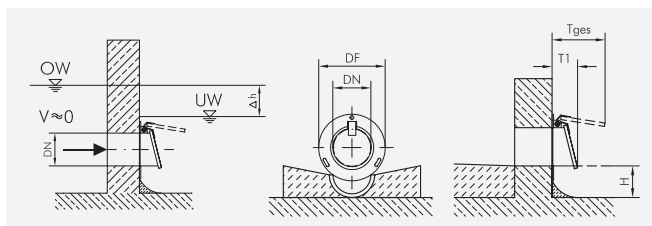
- stainless-steel construction
- material 1.4301 (V2A)
- 1.4571 (V4A) on request
- flange with connecting dimensions acc. to DIN 2501
- flexible cover bearings ensure easy opening and secure closing
- robust construction
- easy mounting
- complete with sealing material and stainless-steel fixings



### HydroFlap Non-Return Flaps dimensions

Non-Return Flaps	DF [cm]	T1 [cm]	T <sub>total</sub> [cm]	H <sub>min</sub>	H <sub>min</sub>	Q	Q
				1/2-shell [cm]	1/3-shell [cm]	Δh = 1 DN [l/s]	Δh = 2 DN [l/s]
DN 100	24	11	20	13	10	5	10
DN 150	31	12	24	14	10	15	25
DN 200	36	14	30	15	10	35	50
DN 250	41	14	35	16	11	60	85
DN 300	46	16	40	17	11	100	140
DN 400	56	18	50	19	12	200	290
DN 500	66	21	60	21	12	360	520
DN 600	76	23	70	23	12	580	820
DN 800	100	33	93	26	13	1200	1700
DN 1000	116	40	120	30	13	2100	3000
DN 1200	140	48	140	36	17	3350	4700

Other dimensions available on request, all values are approximate



### Areas of Application

- sewer systems
- tank and stormwater overflows
- sewer overflows
- receiving water outlets
- pump stations
- flushing sumps
- ponds

