

The most successful regulator family:  
Discharge regulators  
for all ranges of application

Absolutely constant  
flows of 1 to 5,200 l/s



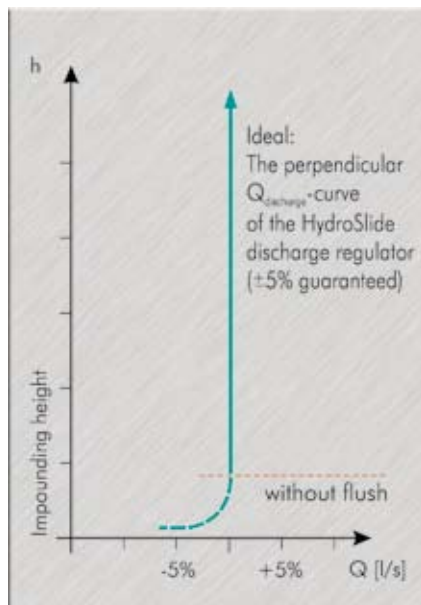
## Discharge regulators for all ranges of application

### The challenge

For discharging stormwater, combined water and sewage – in line with modern principles of water management – throttling units with a perpendicular discharge curve are applied which have constant discharge limitations regardless of impounding heights in tanks, backwater channels, surplusing works, sewage treatment plants and settlers.

### The way

With the help of a float (turning to the right, left or front), different water heights are transmitted to a perpendicular throttling valve by a mechanical control. This valve shows the optimum discharge section. Thus, a constant discharge of  $\pm 5\%$  is guaranteed. All HydroSlide discharge regulators are delivered without a flush. However, a flush for cleaning channels and sewers is useful for small discharges. Here, the HydroSlide discharge regulator can be adjusted to any value



patented

required. The regulators of the line DN 200 and smaller have a double valve. For discharge  $< 60$  l/s, rope pulleys are standard, in order to remove blockages manually. For discharge  $\leq 25$  l/s, the automatic system is recommended. HydroSlide discharge regulators open the whole cross-section even beyond a possible presetting. Each regulator has a profile help. If the tractive stress in the inlet area is not sufficient, a stainless steel flume can be very helpful.

### STANDARD construction VS

Ideal due to its compactness (installation opening  $\varnothing 62,5$  cm).

Regulates without a flush. The perpendicular valve is vaulted to the top and the opening has a v-shape-i.e. large residual openings with minimum blockage probability.

### STANDARD construction Mini

The construction „Mini“ is designed for small impounding heights and small constructions. Due to its compact design, construction expenses

are reduced especially with high discharges.

### AUTOMATIK construction Giehlmatic

The „intelligent“ system regulates without any flush, moves the valve vertically, opens automatically when blocked and additionally, it is possible to flush the channel via manual pulley. Even with small discharges with initial setting of the valve, the whole regulator opening is opened, if necessary. The maintenance-free mechanism is arranged above the sewage water level.

### The Advantages

- simple, rugged stainless steel construction with bearings made of brass/PE
- high reliability in operation
- simple and quick installation
- nearly maintenance-free
- without external power
- without sole jump
- without flush
- no restriction or deviation of the water current
- adjustable to new discharges
- maximum discharge crosssection at time of high pollution transport
- perpendicular Q/h line
- reliable functioning with backwater
- remote control systems can be retrofitted
- option: vario functioning, thus infinitely variable adjustment on site
- option: inlet flume made of stainless steel

Preselection		
Discharge flow [l/s]		Nominal size [DR]
1 - 5	①	100
5 - 25	②	200/150
25 - 35		200
35 - 60		250
60 - 100		300
100 - 200		400
200 - 330		500
330 - 550		600
550 - 770		700
770 - 1080		800
1080 - 1450		900
1450 - 1880		1000
... - 5200		on request

① Application only in stormwater  
② Application of automatic system  
③ With hand pulley