

The Clear Solution

TRU-FLO Compact Regulator Flow range 10-450 l/s (150-7000 gpm)



Application

The TRU-FLO compact regulator is a simple and rugged device for the regulation of constant discharges from storm water detention basins, storage tanks, combined sewer overflow tanks and sewage equalization tanks. The TRU-FLO can also be used for in-line sewer and interceptor flow regulation. The TRU-FLO is installed in the wet well or directly in the storage structure thereby not requiring the construction of a separate structure.

The TRU-FLO regulator is a hydro-mechanically operated device requiring no external power source. Its compact space-saving construction with a minimum of movable parts together with the automatic self-flushing effect, insures reliable trouble free operation and sets a new standard for flow regulation.

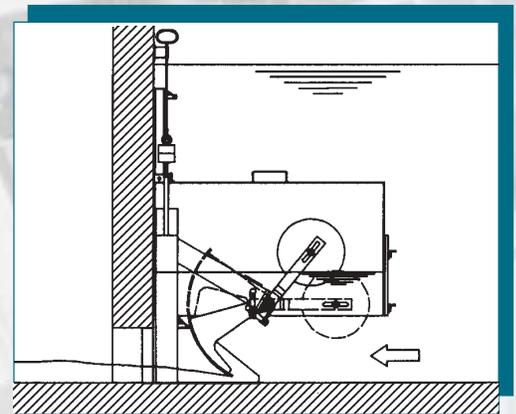
The TRU-FLO is not affected by backwater conditions. If required, the constant discharge rate can easily be adjusted on site. The compact discharge regulator has proven to be a reliable, maintenance-friendly device with a long service life with a broad spectrum of applications.

Features

- No separate structure required.
- Accuracy \pm 5%.
- Suitable for headwater levels of up to 8 m (26 ft).
- Automatic self-flushing effect prevents clogging.
- Design discharge can be adjusted on site.
- No floor invert offset required.
- Stainless steel 316 construction.
- Shipped ready to install.
- Not affected by downstream water level.

Operation

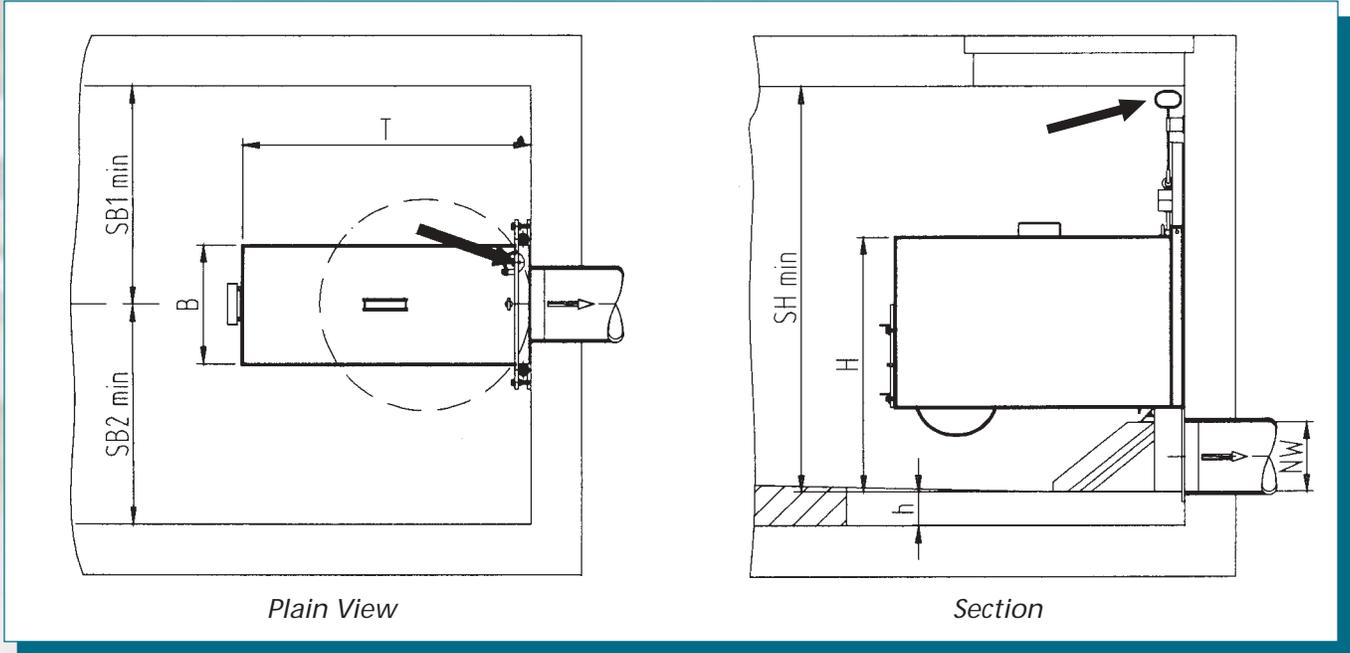
The TRU-FLO compact discharge regulator is installed in the structure's wet well and is acted upon by the upstream water level. The compact design consists of an integral float housed in a watertight enclosure which controls the position of the pivoted radial gate. Because of this watertight enclosure, the large variation of the upstream water level is reflected over a much smaller range within the housing. The position of the float within this housing determines the size of the regulator opening. This ensures a constant discharge over the entire range of the upstream water level.



Operating Diagram of the TRU-FLO regulator

If a blockage occurs, the resulting force of the water on the debris pushes the radial gate up, fully opening the flow section. This causes the debris to be flushed out under pressure (flush-out effect). The radial gate then returns to its normal operating position.

TRU-FLO Installation Requirements



The arrow in the plan view indicates the location of the pulley system for manual opening of the discharge section.

Dimension and discharge table

Type	I	II	III	IV	V	VI
Qab [L/s]	10 - 25 *	15 -50	25-80	40-130	60-250	200-450
Nom. dia. of connection [mm]	150	200	250	300	400	500
T [m]	0.90	0.90	0.90	1.05	1.25	1.45
SB1 [m]	0.40	0.45	0.45	0.50	0.70	0.80
SB2 [m]	0.30	0.35	0.35	0.40	0.45	0.50
B [m]	0.35	0.35	0.40	0.50	0.65	0.70
H [m]	0.75		0.80	0.85	1.00	1.20
Installation opening \varnothing [m]	0.62		0.80		0.80	1.00
SH min	1.50	1.50	1.55	1.60	1.65	1.80
h [m] Assy. difference	0.10					

* For surface water or stormwater the TRU-FLO may be adjusted to regulate flows down to 5 L/s (75 gpm)
Special models for installation under limited space conditions are available upon request

Represented locally by:



TRU-FLO regulator in operation