

Technical card



Mosbaek Flow Regulators

Type EB

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Flow Regulator EB

Ref.:

For adjustment of capacity if necessary contact Tubosider

Application area

The EB regulator/single orifice regulator is installed to regulate large volumes per unit of time at low heads. It is only applied when the head is so low compared with the flow, so that no other solution can be applied. It is even applicable at very small heads.

A suitable EB regulator can be found for any design flow between 10 l/s to 10 m³/s.

The EB regulator is applicable for all common types of sewage, because of its design and because it is manufactured in acid-resistant stainless steel AISI 316L (Werkstoff 1.4404).

Adjustability

The EB regulator has an adjustable orifice plate (inlet opening), which normally makes it possible to change inflow as needed with a range of at least $\pm 25\%$ relative to its medium capacity.

Performance

The EB flow regulator has a parabola-like flow-curve, however steeper, because the μ -value decreases as the head increases.

The EB regulator can be compared with a traditional orifice, however, with the difference, that the EB is infinitely adjustable in flows, and that it, in sizes up to $\varnothing 200$ can be equipped with a manually operating device, which can be used for sluicing-through at blockage.

Flows at heads up to the clearance below the orifice plate, can be increased by giving the bottom race, before and after the flow regulator, a larger fall. This also increases the μ -value on the first part of the curve above the clearance below the orifice plate.

Installation and maintenance

The EB flow regulator can be fitted in existing or designed manholes or tanks – separate housing structure is mostly not required.

The EB regulator is designed for submerged installation and has a fastening at the outlet end. To ensure correct operation the flow regulator must be installed and inspected in accordance with the instructions as follows:

Installation

It is recommended to use a well/chamber size with a diameter of at least 1000mm, a cross section of 1000 x 1000mm or the like. The flow regulator must be fitted at the outlet of the chamber or well. Fasten the regulator on the wall of the well at the outlet opening using drilled-in or embedded bolts. Place the regulator so that the lower edge of the regulator is on a level with the inside bottom of the outlet pipe. Seal with water-resistant joint filler or rubber sealing between the mounting plate and the wall of the well/chamber.

On delivery the single orifice regulator has been set to regulate the required volume. However, it is advisable to check the vertical clearance below the orifice after installation.

Maintenance

The EB regulator has no moving parts and does not require any power supplies, which reduces the requirement for maintenance. However, generally, it is advisable to schedule inspection of the flow regulator as a fixed routine in connection with other routine inspections.

The EB regulator has a straight and horizontal passageway, which contribute to self-cleaning. However, as the inlet opening of the flow controller is not kept constant constantly submerged, there is a risk of clogging caused by floating substances or bodies. Therefore, the flow regulator must be inspected at regular intervals.

Typical Applications

The EB flow regulator has its typical applications as follows:

- At the outlet from detention basins
- In overflow/surcharge structures
- For temporary storage in upstream sewer system
- At inlet to pumping stations
- At inlet to sand or oil traps and treatment plants