

AS-PUMP SEP

Dry Well Pumping Station

An operationally easy and reliable pumping station, which due to its separation of solids prevents blocking of pumps. This significantly reduces potential servicing requirements. In addition, by its design, the station provides an easy access to separate parts of the pump modules, which is more popular as compared to conventional pumping stations

AS-PUMP SEP consists of two separate circuits with a common retention module. Each circuit is provided with a self-cleaning separator of solids.

Pumping station design

- AS-PUMP SEP ETS – a stainless-steel separation module with flow rate up to 36 m³/h
- AS-PUMP SEP ESS – a stainless-steel separation module with flow rate from 36 to 250 m³/h
- AS-PUMP SEP ESS PE – an integrated dry well pumping station made of HDPE (high-density polyethylene)

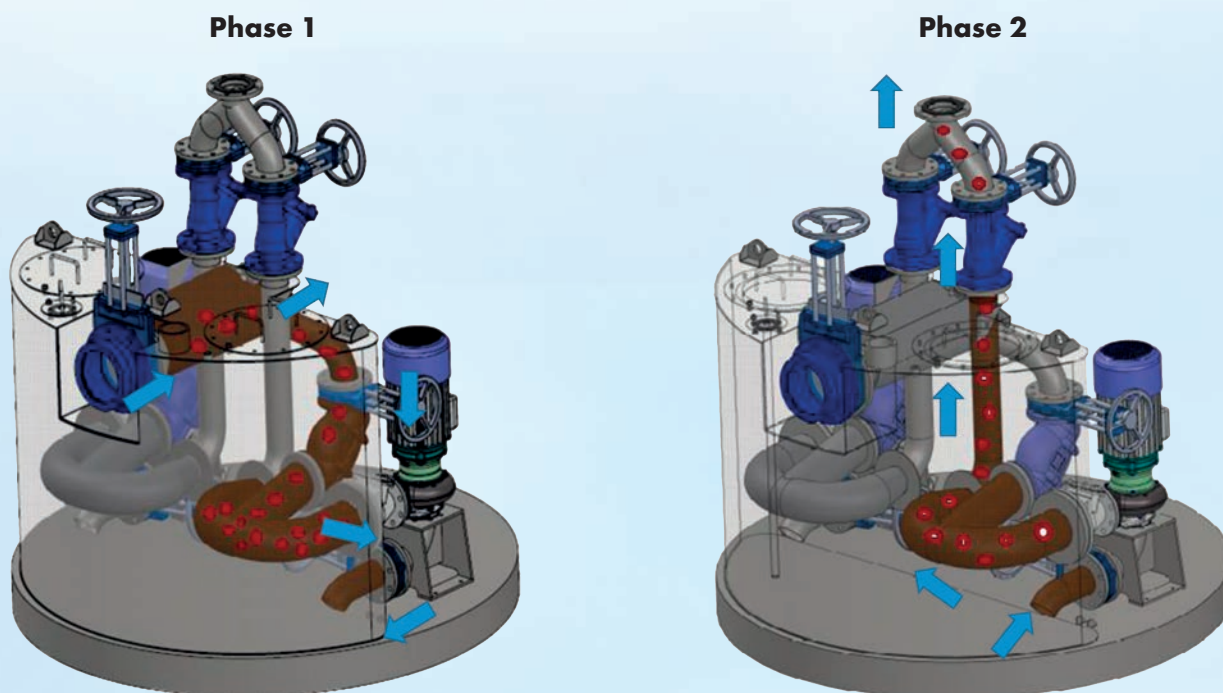
Advantages

- Easy attendance and maintenance
- Easy access to individual pieces of equipment and maintenance carried out without the necessity to interrupt the pumping station operations.
- Low operating and service costs
- Odour neutralisation
- Top quality stainless steel design of ETS and ESS (welds are treated by pickling and passivation)
- „Plug and play“ a supply of the ESS PE station saving installation time on the site to a minimum
- Possibility of a station design fitted with pumps of own selection
- Longer service life due to the protection against penetration of solids /using the self-cleaning separator of solids



Method of operation

The operating principle of dry well pumping stations can be divided into two phases.

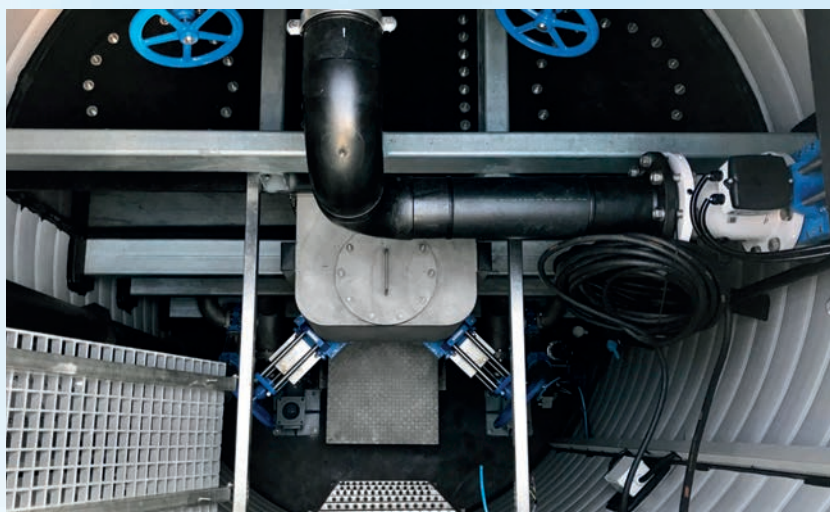


Phase 1 – Filling

Wastewater flows into the dry well pumping station into the collector and to the distributor, where the stream is divided into two separate circuits. A suitable design of the dividing chamber minimises the risk of clogging. The inspection hatch makes possible to observe the conditions there without any need to interrupt the operations. Downstream, wastewater passes through the separator of coarse solids (screenings). Wastewater freed from coarse solids starts to accumulate in the retention module.

Phase 2 – Pumping

As soon as the accumulated water level in the retention tank reaches its maximum, one of the pumps will start to pump off wastewater with all the impurities (including screenings trapped on the separation flap). The separation flap design provides for self-cleaning effects. Separate pumps are activated automatically – one is automatically controlled. Pumps operate alternatively.



Dry well pumping stations are designed in a custom-made mode for each individual order.

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