

BEVERON

MIXED FLOW PUMP

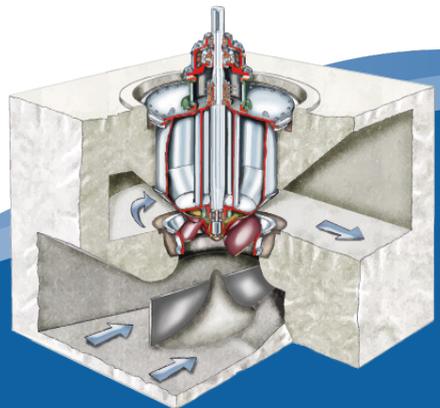
Based on many years of experience, Bosman Watermanagement B.V. has developed the Beveron: a new type of concrete volute pump with impressive performance and a low noise level.

The Beveron is suitable as much for new construction as for renovation of pumping stations and is available in a series of 29 standard modules, covering a range of 3 till 30 m³/sec for heads between 1 and 10 m.

The components of the Beveron pump are perfectly matched, and designed to ensure that flow losses are reduced to an absolute minimum. This results in the Beveron achieving a high level of hydraulic efficiency. Moreover, the required submersion depth has been minimised, thanks to the suction box, which has been developed specially for this pump.

FEATURES

- Broad performance range
- High efficiency and good cavitation features
- Compact design
- Broad performance range
- Very low noise profile





IMPELLER

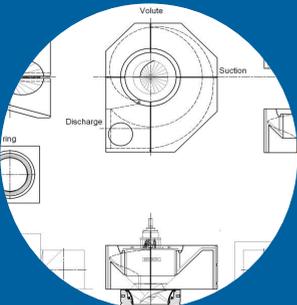
The impeller can be manufactured from various materials. This enables the impeller characteristics to be made to correspond with the specified requirements for strength and corrosion resistance. The impeller is manufactured as 3-bladed, half-open type, cast in one piece, machined and balanced.



SUCTION BOX

Special attention has been given to the design of the intake box. The shape has been carefully calculated to reduce friction losses to the absolute minimum, and reduce the chance of formation of vortices that take air into the pump.

The provision of a streamlining cone in the suction box contributes to this vortex reduction. Extensive computer simulations of the flow through the suction box have led to this optimised design. Subsequent trials in the test rig have proven the high performance of this design.



VOLUTE

The volute has been designed specially to match the impeller, and has a very high hydraulic efficiency. It features a flat floor, and a trapezoidal flow cross-section. The volute is produced in concrete, and on request can also be manufactured as prefabricated elements, either constructed on- or off-site.