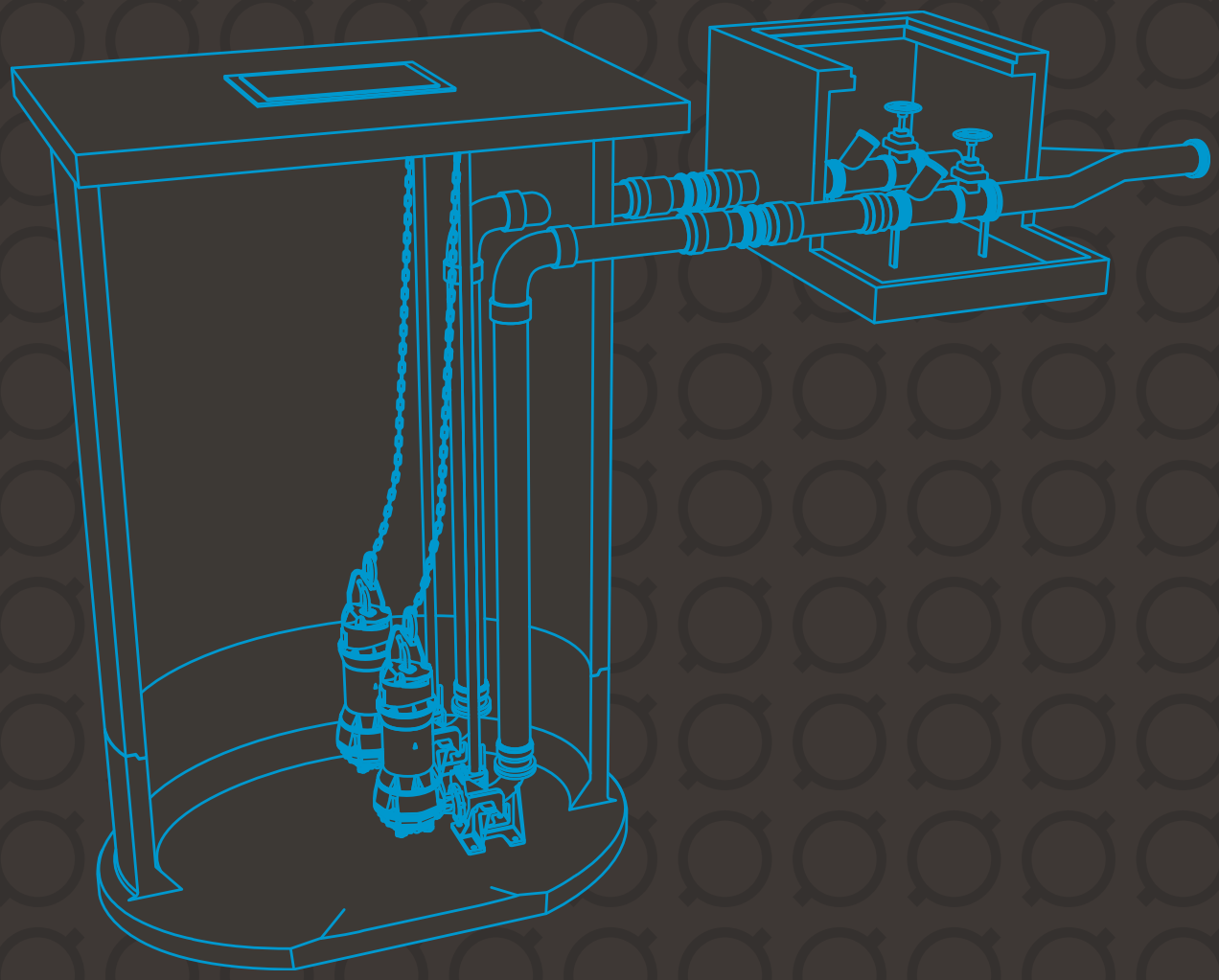
Global Water

EnviroLift® Volym®
Concrete pump station



EnviroLift Volym
Concrete pump station

Meeting the future needs of municipalities

The Global Water EnviroLift Volym precast concrete packaged pump station is the largest of its kind in Australia. With an equivalent volume of 3.8 m diameter well cut in an elliptical shape, and depths from 2 to 15 metres, it is ideally suited for larger infrastructure projects applications where emergency storage volumes and larger size pumps are required.

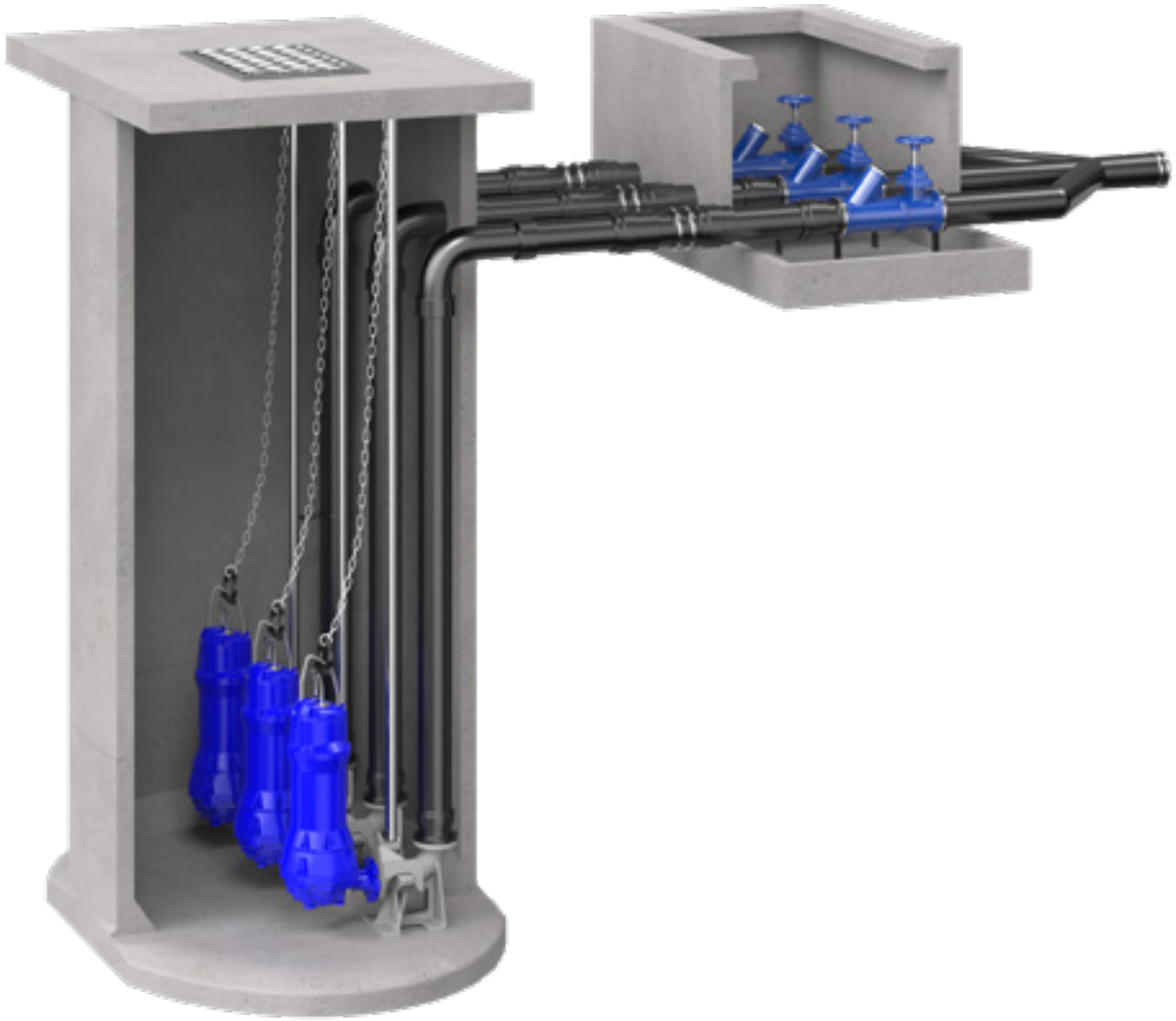
EnviroLift Volym precast concrete packaged pump stations are moulded from sulphate resistent concrete, with calcareous aggregate to a structural strength of 50 MPa, resulting in excellent station durability for a design life of over 50 years.

The pump station base is formed on one complete unit, eliminating the chance of leakage within the working volume.

Pre-assembled with all the necessary equipment, concrete increments are also notched to ensure accurate alignment, allowing ease and speed of installation whilst on site, keeping civil costs and installation times to a minimum.

Tech data

Capacity (L)	
– 2 m base	17,000
– each additional 1 m	11,500
Outside dimensions (mm)	5130 x 3450
Depth range (m)	2.0 to 15.0
Increment sizes (m)	0.5 to 2.0
Weight (T)	
– 2 m base	17.4
– each additional 1 m	5.0



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Concrete pump station

Features

- Equivalent in capacity to a 3.8 m diameter wet well – 11,500 L capacity per metre of depth
- Structural strength of 50 MPa
- Pre-engineered for structural integrity and flotation
- Meets Australian Standard AS 3735-2001
- Hydrogen sulphide resistant concrete using calcareous aggregate to suppress concrete cancer
- Access hatches for both pumps and valve chambers
- Available with optional Sludge-Kill® benching
- Faster and safer installation system compared to cast in-situ
- Unique elliptical shape with max. 3.5 m width enables transport without the need for an escort
- Can accommodate up-to four pumps
- Heavy trafficable covers available.

Applications

- Municipal lift stations
- Commercial and industrial complexes
- Hospitals
- Mining camps
- Subdivision sewer and stormwater
- Caravan and holiday parks
- Motels and hotels
- Shopping centres
- Sporting facilities
- Stormwater retention basins
- Industrial bulk water transfer.

Elevate your productivity with Sludge-Kill®

EnviroLift Volym packaged pump stations are available with Sludge-Kill® self-cleansing sump geometry.

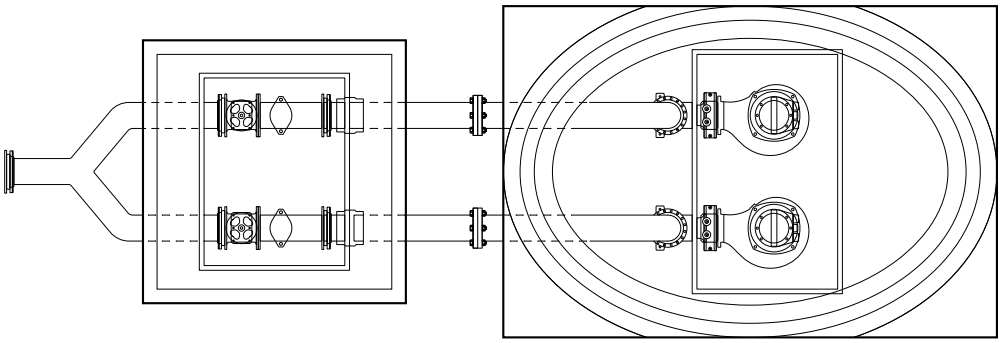
The optimised geometry leaves no space for sludge to accumulate. The small remaining water volume at the end of every pumping cycle gives high water velocity in the sump. The high velocity combined with the turbulence suspends sedimentation and floating solids in the wastewater allowing them to be pumped away.

Global Water Volym with standard benching

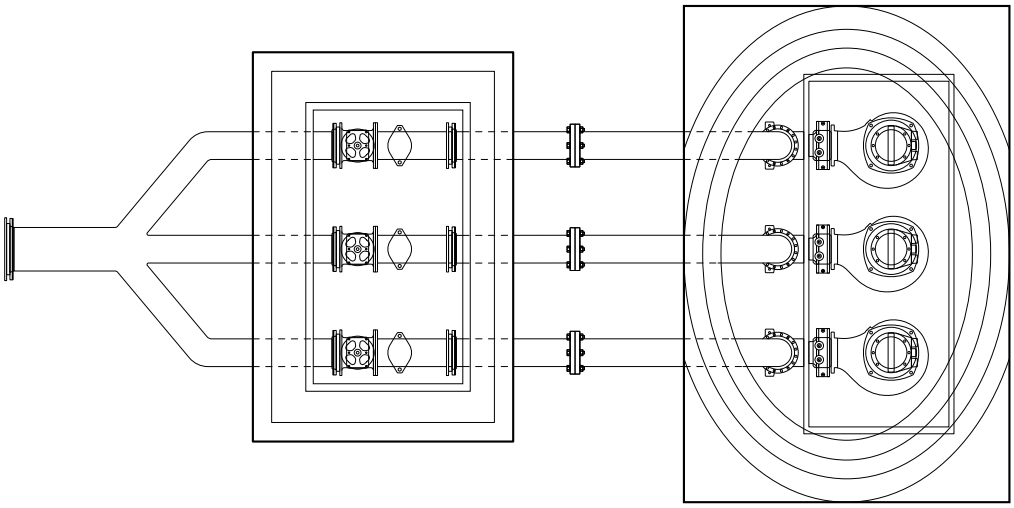
Global Water Volym with Sludge-Kill® self-cleansing sump geometry

EnviroLift Volym
Typical layouts

Two pump arrangement



Three pump arrangement



Scan here to access these drawings in PDF or DWG format. Registration required.

EnviroLift Volym
Components

ABS XFP submersible pumps

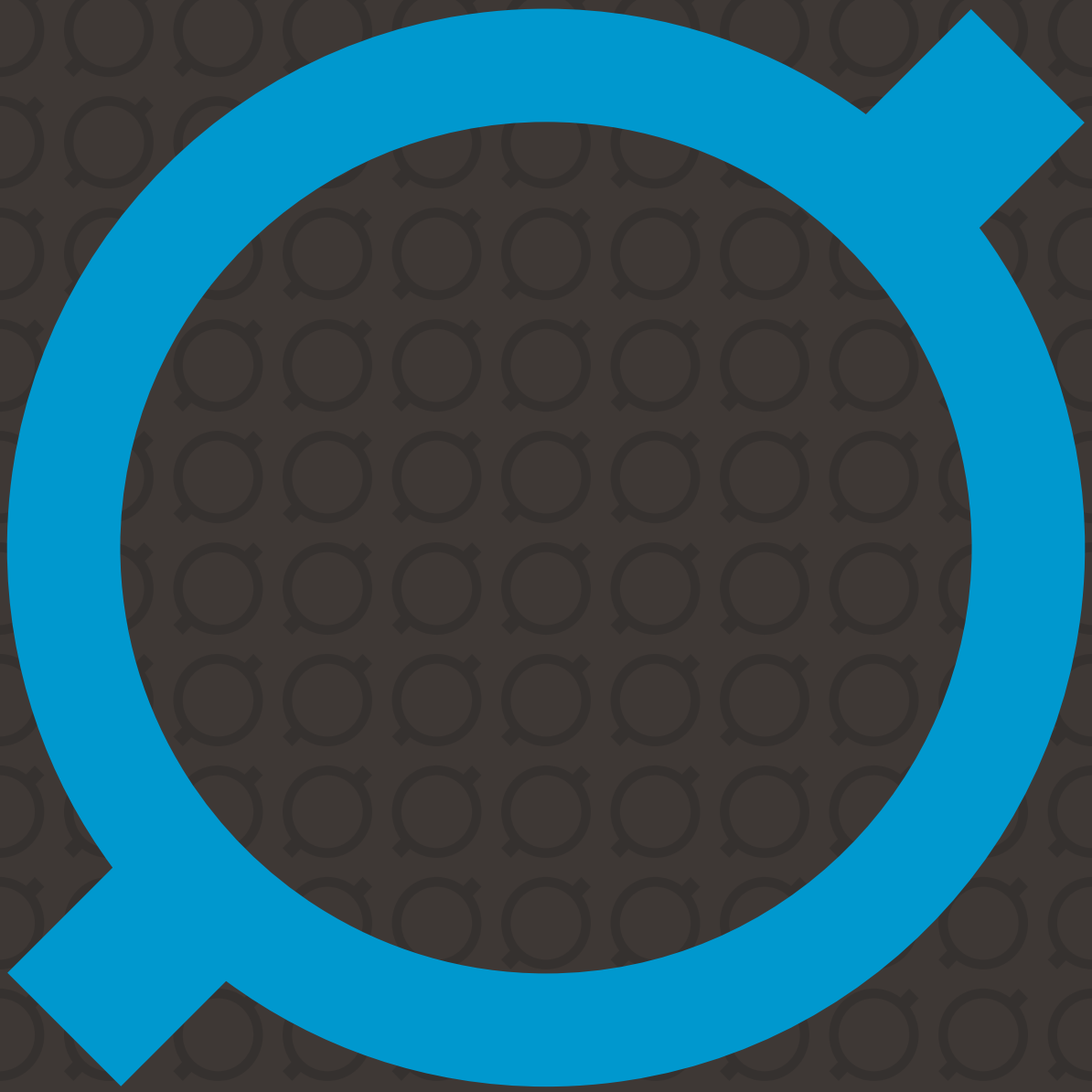
Built for today's wastewater challenges, ABS XFP submersible pumps combine high-performance IE3 Premium Efficiency motors with advanced ContraBlock impellers to reliably handle sewage with high solids and rag content. Engineered for long service life and reduced energy consumption, they offer exceptional rag handling and durability, making them a dependable choice for municipal and industrial pump stations.

Level sensors

Accurate level measurement is critical to pump station performance. Radar sensors, such as the VEGAPULS C 21, provide non-contact monitoring using 80 GHz technology, offering high accuracy even in turbulent or foamy conditions. Ideal for open channels, wet wells, and overflow basins, they are maintenance-free and easy to integrate with SCADA. Hydrostatic level transducers remain a proven choice for submerged applications, offering robust and reliable performance in sealed, pressurised environments.

Pump control switchboards

Custom-built to meet the specific requirements of each project, these switchboards are designed for reliable and intelligent wastewater control. They feature PLC-based logic, HMI interfaces, SCADA-ready telemetry, and durable enclosures in 316 stainless steel or marine-grade aluminium. Designed to work with level, flow, and alarm inputs, they're ideal for municipal and water authority applications, with compact controller options available for smaller projects. Controllers can handle up to four pumps.



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