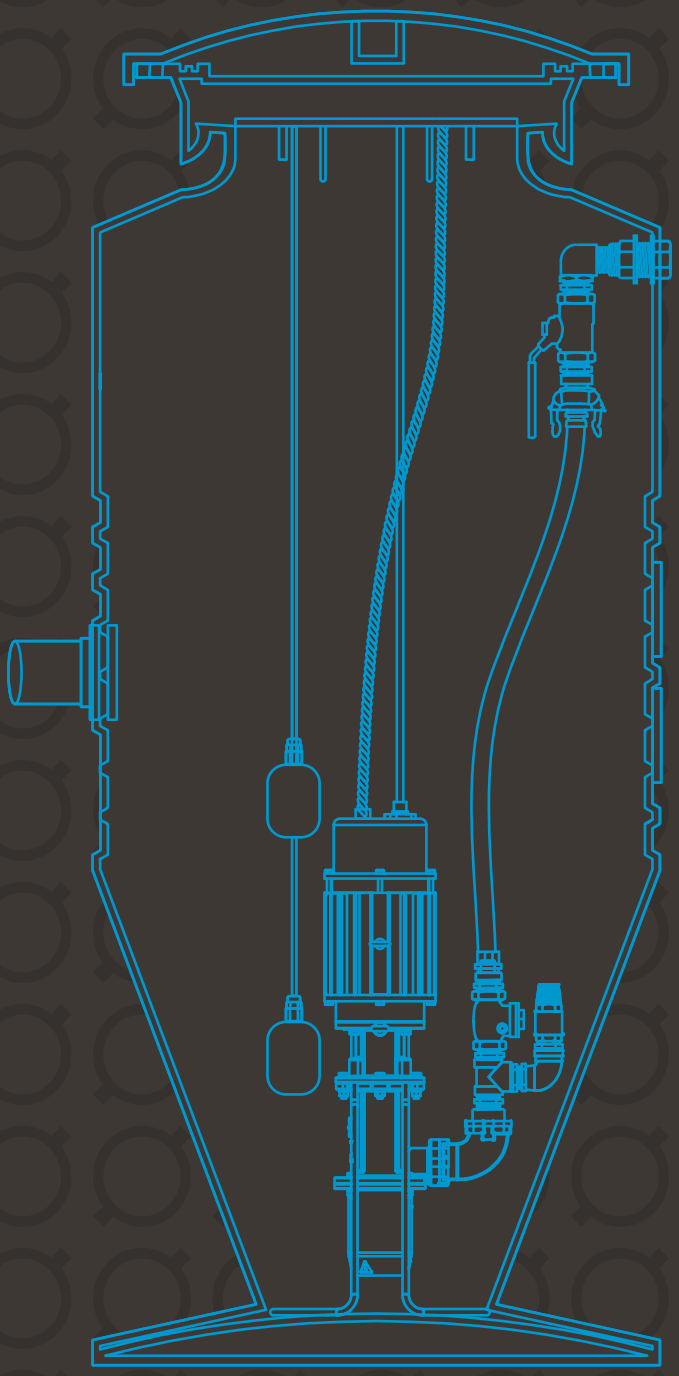
Global Water

DrainAce®
Pressure sewer system



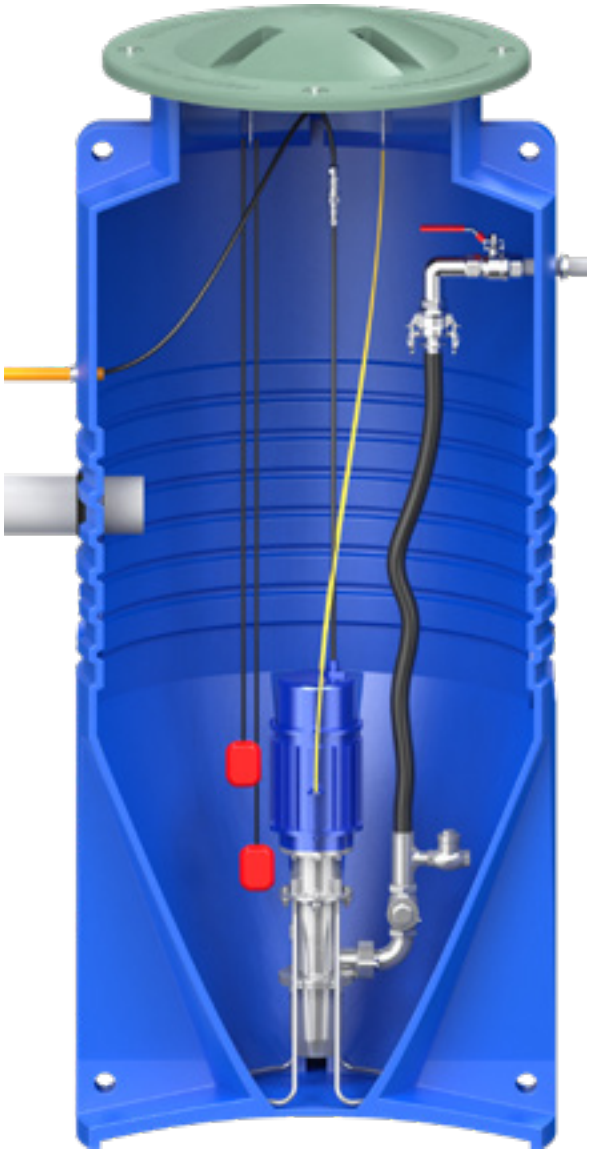
DrainAce
Pressure sewer system

The Global Water DrainAce pressure sewer system collects, grinds, and pumps sewage fully automatically.

At the heart of the system is a unique high-head grinder pump that can pump long distances through small-bore pipes. This means difficult locations in steep, undulating terrain or high-water table areas can now be connected to sewer. Developers, community planners, and homeowners have the freedom to develop areas that may have previously been unfeasible due to high-water table or rock.

The DrainAce pressure sewer system is robust and almost maintenance free, with built-in pump overload and overpressure protection.

The standard 900 L polyethylene high-strength pump chamber is accredited to AS/NZS 1546.1:2008. Larger chambers up to 10,500 L are available when additional storage capacity is required.



Features

- All chambers are accredited to comply with AS/NZS 1546.1:2008
- Choice of pumps to match application
- All 316 stainless pipework and valves
- Smart controller enables cascade operation and scheduled operation
- In-built anti-syphon valve
- Easily adjusted switching levels
- Pump chamber capacities up to 10,500 L available

Benefits

- Trench depth of 600 mm vs 3 m+ for gravity, dramatically lower civil costs
- No requirement for pipes to be laid at grade
- HDPE pipe network can be installed alongside water mains by the same contractor
- Eliminates groundwater infiltration into the network
- Smooths peak flows — reducing required treatment plant capacity
- Lower carbon footprint across construction and operation
- Can be installed via directional boring with minimal surface disruption

Applications

They are well suited to sites with:

- Rock, sandy soil, or high groundwater
- Steep or undulating terrain
- Coastal and island communities
- Low-density or scattered lot developments
- Heritage or built-up areas where excavation is restricted

Typical installation

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Pump – standard

The GPGH32-110 positive displacement high-head grinder pump has a heavy-duty cutter impeller and cutter ring plus a helical rotor stage making it ideal for pumping wastewater and sewage in low-flow, high-head applications such as pressure sewer systems.

Features

- Cast-iron body for durability under harsh conditions
- Available in single or three-phase. Single-phase units are available with inbuilt float switch for fully automatic operation
- Heavy-duty double SiC mechanical seal
- Cutter impeller with hardened grinding ring cuts solids to smallest possible size to reduce clogging
- Free-standing mount or guide rail pedestal

Pump – premium

The NOV GPGN32-110W positive displacement high-head grinder pump is a premium unit in all stainless steel construction with stainless pipework and valves for ultimate durability in harsh conditions. It is fitted with a heavy-duty cutter impeller and cutter ring plus a helical rotor stage making it ideal for pumping wastewater and sewage in low flow, high-head applications such as pressure sewer systems.

Features

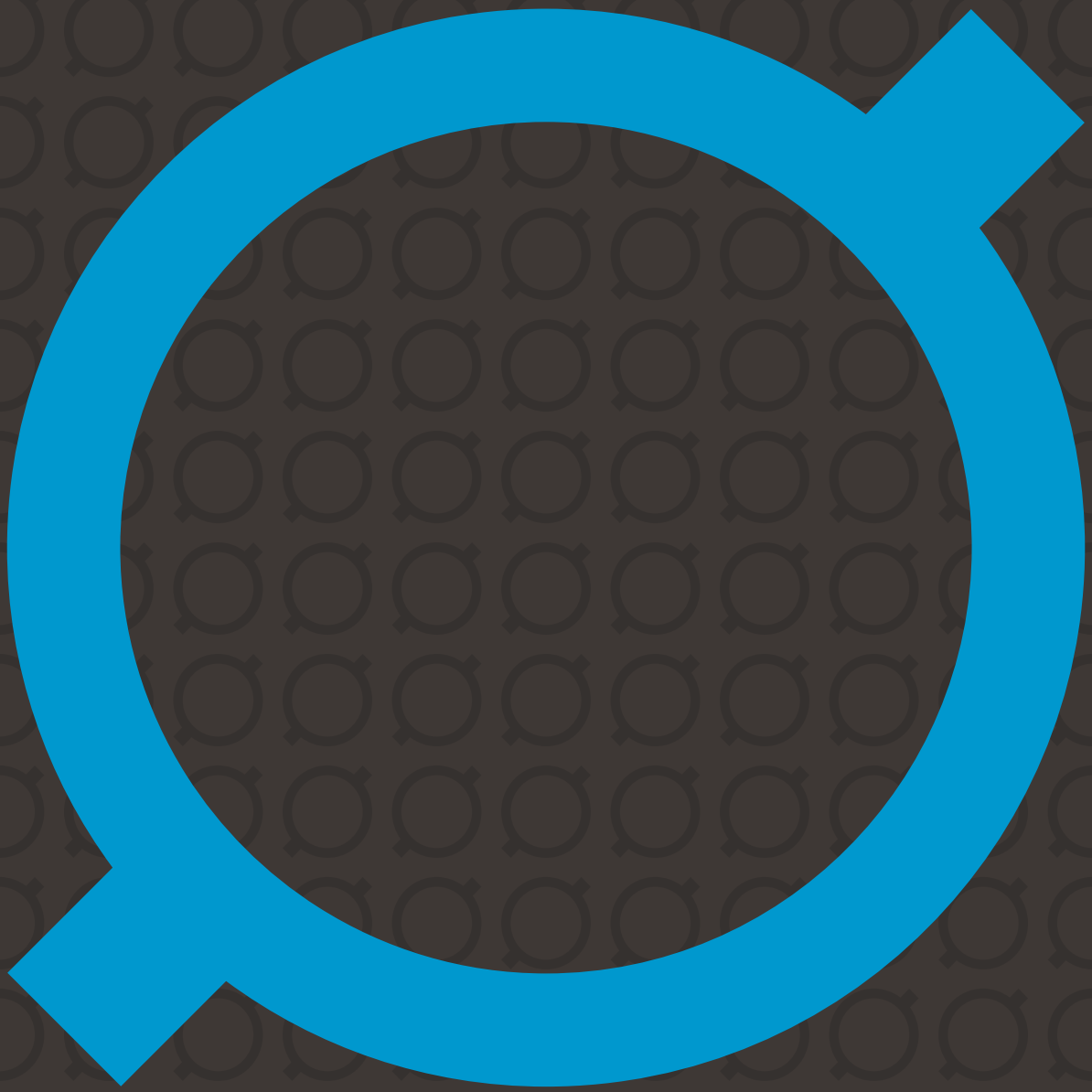
- All stainless steel construction for durability under harsh conditions
- Heavy-duty double SiC mechanical seal
- Cutter impeller with hardened grinding ring cuts solids to smallest possible size to reduce clogging
- Free-standing mount

Controller

A modern app-enabled pressure sewer controller designed specifically for pressure sewer applications, featuring advanced pump and motor protection, configurable operating modes, and built-in Wi-Fi commissioning and monitoring.

Features

- Single-phase 240 V, 14 A pump control
- Dry-run protection
- Pump overload protection
- Brownout detection
- High-level alarm
- Configurable start-up delay
- Configurable alarm delay
- Pump run window scheduling
- Manual pump operation
- Built-in alarm light and buzzer
- Optional battery backup
- Lockable isolation switch
- Optional generator plug with changeover switch
- BMS output
- Built-in Wi-Fi commissioning and monitoring from any Wi-Fi-enabled device
- UV-stabilised plastic or metal enclosure option
- IoT-ready connectivity



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