



Zero scheduled maintenance



✓ No wearing rotor/stator





# **Driving Innovation**

Australasia's first and only residential pressure sewer pump with a 20 year life\* and zero scheduled maintenance.

Aquatec's Omni Grind Turbine (OGT) Pump replaces continually wearing rotor and stator components found in traditional Progressive Cavity pumps with a 316 stainless steel, abrasion resistant turbine impeller to deliver Australasia's only pressure sewer pump with a 20 year life' and zero scheduled maintenance.

At the forefront of advancing technologies, the OGT is purposebuilt for continual operation across Australasia's coastal, urban and rural terrains, with the versatility to adapt to any pressure sewer network.







### 1 Abrasion Resistant Impeller

F Proprietary Aerospace infusion coating technology; a stainless steel turbine impeller with multi vane design and steep curve, B resists abrasion from sand, grit and hard particles to provide double the life of conventional Progressive Cavity Pumps.

### 2 Dual Channel Volute

F Radially balances the hydraulic load which B means that the pump can operate anywhere on the curve with no detriment to the pump.

### 3 Steep Pump Curve

F The steep pump curve B enables smaller diameter pipework and greater control over system pressure, with the flexibility to set maximum limits at lower pressures providing full network control and protection.

## 4 Shorter Shaft

F A shorter shaft B enables a closer tolerance on the cutter with tighter clearances, eliminating side-to-side deflection and jamming (as seen with progressive cavity pumps) while increasing the life of the mechanical seal.

#### 5 Slicerator

radius with tighter clearances

B maximises cutting force for grinding fibrous materials, such as wipes, and all modern textile to eliminate jamming with

**F** A smaller cutter and grinder

#### 6 Silicon Carbide Seal

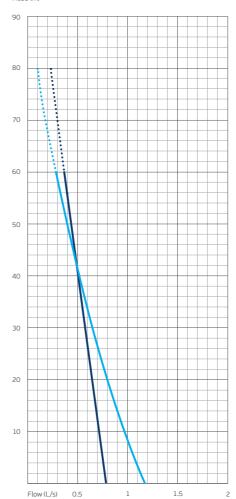
F A Silicon Carbide Mechanical Seal with vented case B reduces working pressure to increase seal life. Hydraulic passages and pump-out vanes protect from stringy debris and abrasive media for longer life.

## 20 Year Life\*

Grinder Pump Performance Comparison

OGT Regenerative Turbine (Recommended Operating Range)

 Progressing Cavity Recommended Operating Range (for comparison) Head (m)



## Progressing Cavity Technology

- Contacting rotor and stator continually wear every time the pump operates
- Requires replacing after
   5-10 years dependent on abrasives in sewer



#### Turbine Technology

- No wearing rotor and stator
- Regenerative turbine impeller
- No contacting parts
- Higher heads up to 80m with higher flows up to 1.2 L/S
- Able to run dry
- 20 year life
- Fully designed to integrate with progressive cavity pumps in existing network



## Water Innovation Partners

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