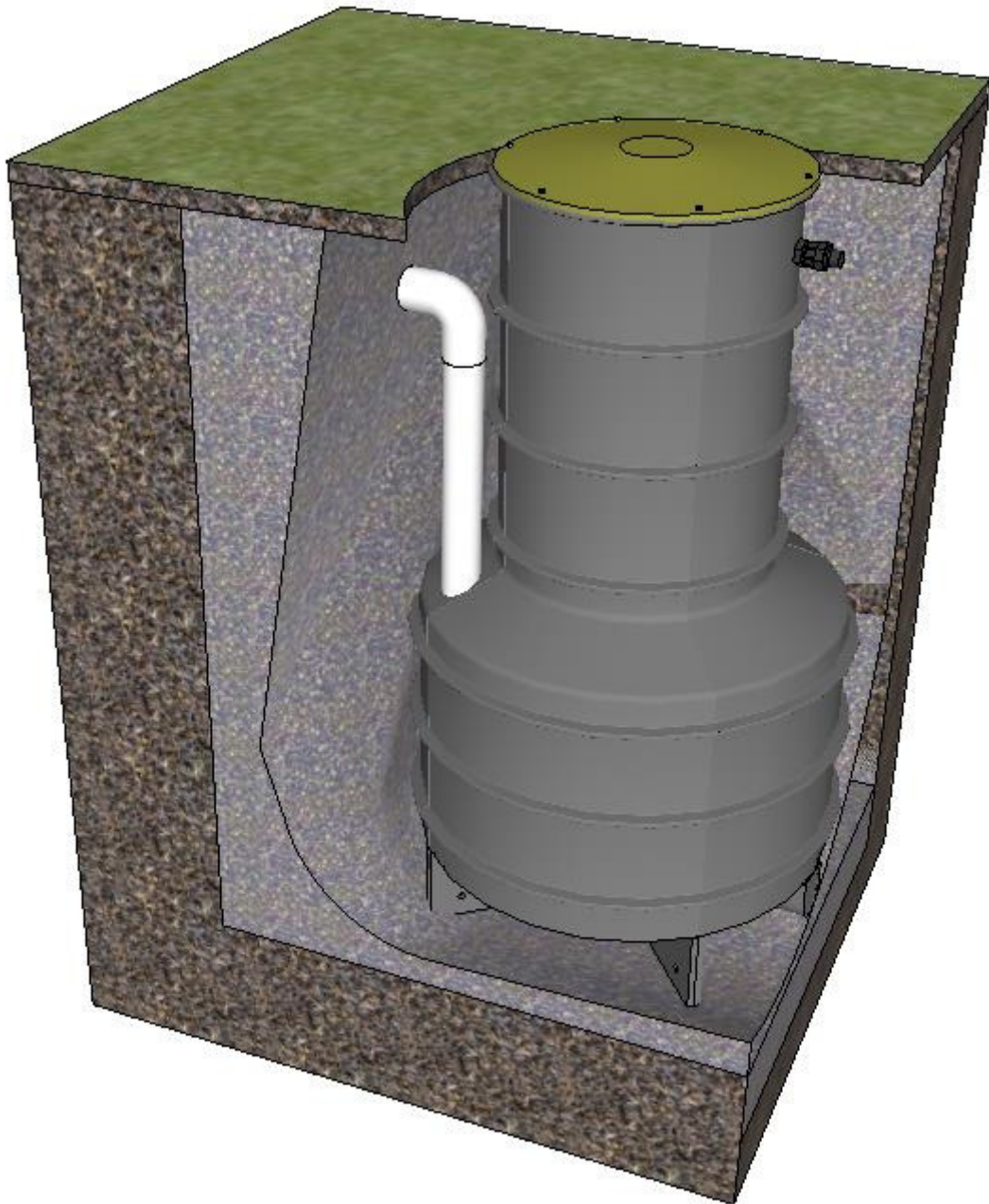


SmartFlow Pump Station Specification Sheet



Waterflow NZ Ltd

MontreVue Estate, PO Box 24, 1160 State Highway 12, Maungaturoto 0547, New Zealand
P. 09 431 0042 F. 09 431 8845 E. sales@waterflow.co.nz www.naturalflow.co.nz

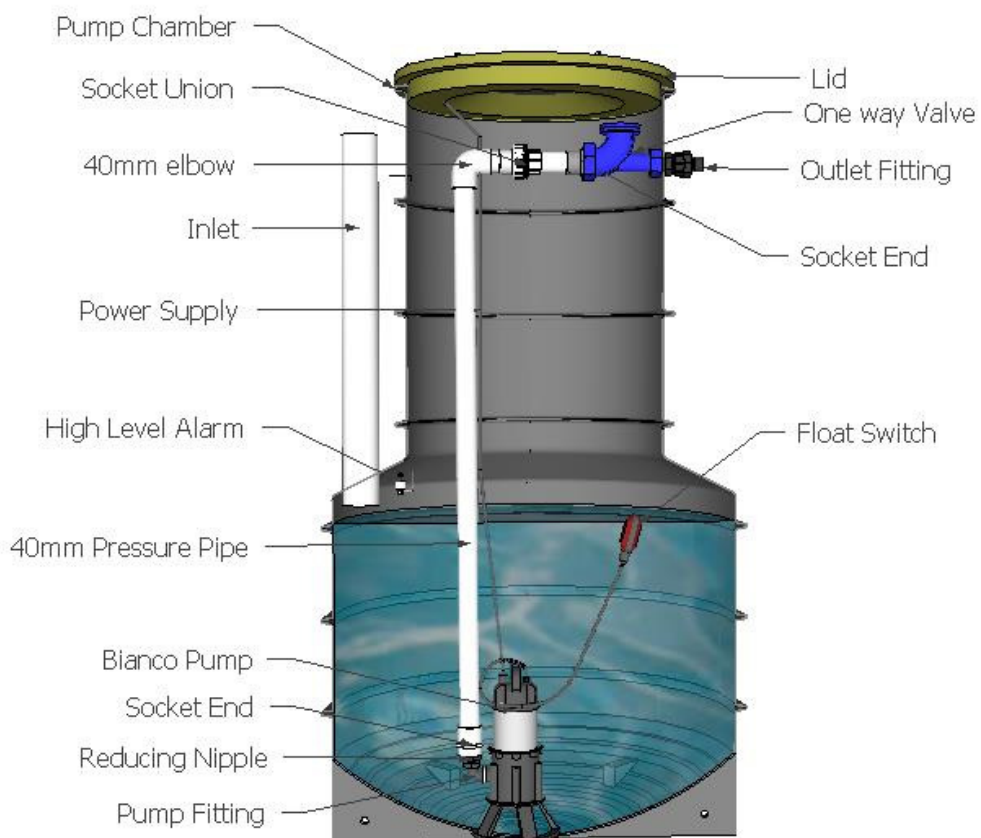
Looking for a robust, tough Pump Station solution?

Waterflow NZ Ltd has the answer with the NaturalFlow range of packaged pump stations specifically developed to endure New Zealand's rugged conditions.

- Tough durable Polyethylene
- Suitable for Stormwater or Wastewater
- Smooth interior – non corrosive and easy clean
- Lightweight – easier to transport and install
- Great for difficult sites
- Only lightweight machinery required to install
- Complete package with submersible pumps sized to meet your needs

PC 1375 Pump Station Specifications

Model No	Nominal Capacity (ltrs)	Dia Body (mm)	Dia Riser (mm)	O/A Height (mm)
PC1375	1400	1300	700	2100



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Compliance Requirements

All Natural Flow Treatment Systems meet the requirements of the NZ Building Code 3604. Section 1.5.2.1 of AS/NZS 1546.1:2008 and Section 1.5.2.1 of AS/NZS 1547:2012 state that tanks constructed to these Standards will meet the requirements of the code for Clauses B1 and B2, structure and durability.

Compliance with the relevant sections of Section 9 of AS/NZS 1546.1:2008 and the relevant sections of Parts 2 and 4 of AS/NZS 1547:2000 are also covered, as are Clauses G13.3.4 relating to on-site treatment and disposal systems and G14.3.1 and 14.3.2 relating to the control of foul water as an industrial waste, in the 'Naturalflow Compliance Requirements' document.

Please feel free to ask for a copy of this complete document, if required.

Installation Location and Certification

These tanks are not designed for vehicle loads and shall be located no closer than 1.50m to a driveway, road frontage or a building. If for any reason the tank is located where vehicle traffic may drive over the tank or approach closer than 1.50m, or where it may be trampled on by farm stock then the tank should be protected by a concrete slab designed to support these loads. Surface water must also be diverted from flowing into the installation.

Installation must be certified to AS/NZS 1547:2012, the certificate to be issued and held by the regulatory authority.

Plumbing Pipes and Fittings

All internal plumbing is done with PVC pipes with appropriate connections according to AS/NZS 1260 and AS/NZS 4130.

Backfill and Bedding

Place and bed to NZBC G13/AS2, using compacted granular metal, in layers not exceeding 100mm.

Electrical

Electrical connection must be installed according to AS/NZS 3000 and the control and alarm system must be in a weatherproof housing located in a readily visible position.

PC 1375 Pump Station Installation Instructions

The Natural Flow PC 1375 Pump Station is to be installed or signed off by a registered Drainlayer to the design specified by Waterflow NZ Ltd.

The following installation instructions and procedures followed correctly will ensure System performance is not compromised in any way.

1. Excavate a 1.4m (wide) x 1.4m (long) level platform for the PC 1375 at the appropriate depth, so when it is placed there is adequate fall to inlet from its source.
2. Lay 100mm of bedding metal on platform and place PC 1375.

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3. 7. Where possible excavate a trench away from System and lay drain coil and drainage metal at the base of the system to drain away any surface or ground water. On a flat or high water table site System must be bedded in as per appendix A below
4. Back fill around tanks with pea metal. **DO NOT** back fill with soil or clay of any type as this can cause point pressure on the modules and could cause distortion.
5. Connect pump with fittings supplied and lay feed line to disposal field.

Note: For installation in high water table areas, make sure you have a pump to pump away ground water whilst installing. Excavate a pump cavity to one side of the platform and pump ground water away during entire installation process. Half fill dose tank with water. Either lay 2-3m³ of concrete around the base of the tanks or mix 3 bags of cement/cube of GAP20 or similar metal to form a mass to stop any hydraulic uplift. Leave water in tank for at least 12 hours after installation is completed.

Caution: System must be protected from excessive super imposed loads both lateral and top loads. E.g. loads from vehicular traffic. There needs to be at least 2m of clearance maintained around system.

Warranty

WATERFLOW NZ LTD warrants that the NaturalFlow Pump Stations will be free from defects in material and workmanship for the following periods of time from the date of installation as set out in the following conditions:

1. Roto-Molded tanks 15yrs
2. Pumps 2yrs
3. WATERFLOW NZ LTD will at its discretion replace or repair such components that prove to be faulty with the same or equivalent part at no charge.
4. Warranty of operation only covers the performance of the Pump Chamber as connected to the effluent inflow for which they are designed, and also installed to the criteria as set out in the relative installation instructions and procedures.

Warranty excludes defects due to:

- A) Failure to use the system in accordance with owner's manual.
- B) A force majeure event outside the reasonable control of WATERFLOW NZ LTD such a but (not limited to) earthquake, fire, flood soil subsidence ground water table variations or plumbing fault.
- C) Modifications to surrounding landscape after installation
- D) The actions of a third party
- E) The system required to bear loads (either hydraulic or biological) greater than that for which it was designed
- F) Any modifications or repairs undertaken without the consent of WATERFLOW NZ LTD

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