

# Fibreglass Pump Stations

For Waste Water & Sewage

Feb 2012



**ARMATEC**

## PRODUCT DESCRIPTION

Waste water and sewage pump stations are supplied as an all fibreglass unit with inlet and outlet connections and complete with outlet piping, pump rails, pumps, access ladder, electrics, etc as required. They minimise costly site work and can provide lower total installed cost than a similar concrete unit.

## BENEFITS - LOWER TOTAL COST

- **Very Low Maintenance:** No further corrosion protection work is required. The fibreglass resists attack from sewage sulphide gases and many other chemicals. The smooth surface is maintained for years and does not deteriorate as does concrete.
- **Speeds Installation:** Site installation work is minimised as the units are complete when they arrive at site. The units are light in weight and are easily handled so are ideal for difficult or remote sites. Excavations need only be kept open for a short time. Often the all fibreglass pump station can be installed in just one day. No further work is needed beneath the ground inside the station.
- **Ease of Cleaning:** The smooth internal fibreglass surface is easily cleaned with a medium pressure hose so pump station cleaning frequency can be reduced and foul odour emissions from sewage build up on the pump station walls minimised.
- **No Leaks:** The all fibreglass construction and factory assembly ensures there can be no leaks of wastes to ground water or stormwater infiltration. There are no site construction joints.

## CONSTRUCTION STANDARDS

The all fibreglass pump stations are made by the contact moulded method for maximum chemical resistance. The units are fabricated to European, American and Australian fibreglass standards such as AS 2634-1983 for chemical plant equipment. Armatec Environmental Ltd is ISO 9001 accredited with BVQI as the supervising auditors. Full replacement warranties are provided.

## FLEXIBLE DESIGN

The detailed design is finalised in conjunction with customer requirements. The design of the top for example can include a hinged top, or a cast manhole cover, or any other design. Piping material can be PVC, fibreglass, cast iron or stainless steel as is required. Anti-flotation collars, lifting lugs and hold down systems are standard but can be adjusted to suit the particular installation.

## GENERAL APPLICATIONS

- Municipal waste water pumping stations.
  - Industrial waste pumping stations.
  - CIP chemicals pumping station.
  - Farm waste pumping stations.
  - Marina pump out chambers for boats.
  - Commercial centres.
  - Housing developments.
  - Caravan parks and camping grounds.
  - Motels and hotels.
  - Schools.
  - Construction camps.
- ..... any situation where sewage or waste water needs pumping to a mains connection or wastewater treatment plant.



All fibreglass pump station fitted with a FLYGT TOPS Base being lowered into position in municipal subdivision. Hole dug, pump station installed and backfilled in just one day. DVD available on request.

**ARMATEC Environmental Ltd**

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**STANDARD SIZES**

Standard sizes available are 910, 1070, 1200, 1480, 1800, 2000, 2140, 2400, and 3050 mm internal diameter. Depths of the units are customised for the particular installation and are typically up to 6000 mm. Sizes 1070 through 1800 mm diameter are available with FLYGT TOPS Bases designed for FLYGT pumps and featuring FLYGT's TOPS technology; fluid flow is optimised and solids retention minimised.

**SUPPLY DETAILS**

Fibreglass pumping stations are manufactured by ARMATEC. Units with FLYGT TOPS Bases are available from Xylem Water Solutions New Zealand Ltd (formerly ITT Water & Wastewater), Auckland. Phone: 09-415-8687.

Other styles of base and custom fabrications also available; contact ARMATEC direct.



Pump station fitout is done in factory by experienced personnel. This minimises work to be done at site, and there is no need to enter the pump station once it is lowered into the ground. The all fibreglass units are light in weight making handling and transportation to any site easy.



Long life and smooth, easy clean surface results. Fibreglass is resistant to hydrogen sulphide attack.

The all fibreglass pump stations are manufactured in ARMATEC's ISO 9001 accredited factory. FLYGT TOPS bases are manufactured from purpose built moulds. All joints are factory done assuring water tight construction.

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