

System Sump and Pump

NEWTON TITAN-2

Low Level Pumping System

Rev 4.3 - 20 April 2017

PRODUCT CODE - T21-T31

INTRODUCTION

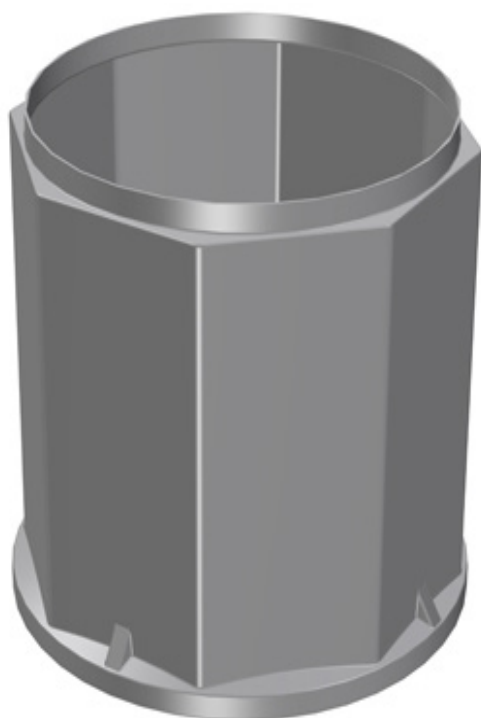
The [Newton Titan-2](#) is a basic pumping system incorporating an octagonal sump chamber, class-leading pumps, a lock & seal lid and frame, a high water level alarm, internal pipe-work, one way valves, and a quick release shut-off valve for quick release of the pumps for servicing.

The sump can be used with single pumps or twin pumps via a single discharge line.

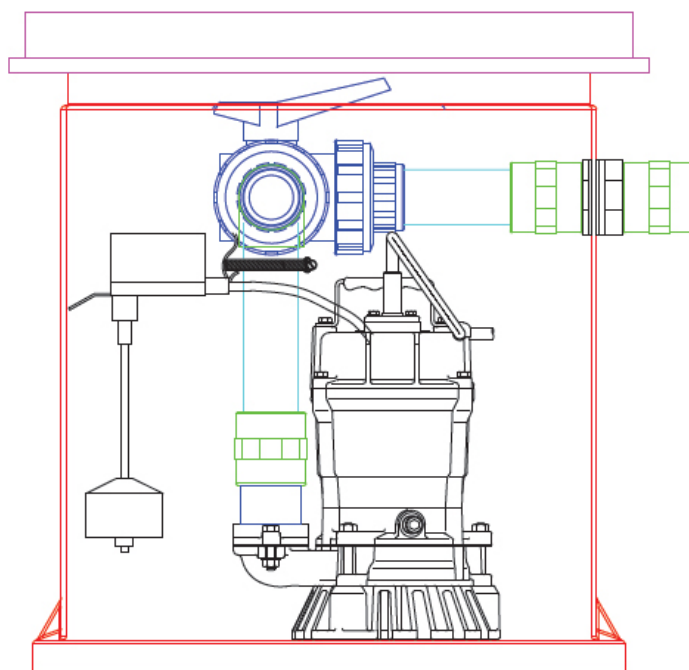
The unique octagonal sump shape ensures structural stability and provides eight large surfaces for inlets into the pump of up to 110 mm via an optional wall flange. The sump chamber also features a flared base to prevent flotation.

KEY BENEFITS

- Compatible with Newton NP and CP clean water pumps (see page 2)
- Fully built system includes all internal pipe and pipe fittings ready for 50 mm discharge pipe
- One-way valve for each pump included
- Quick release coupling for each pump for easy installation and removal for servicing
- Newton [PA50 High Water Level Alarm](#) included
- Supplied with sealed and locked recessed lid. High end finish lids and frames are available as cost options (see page 3)
- Flat areas to side of chamber ready for wall flanges to receive incoming 110 mm drainage pipes. Wall flanges are available as cost options (see page 2)
- Large foot to base of chamber to prevent flotation



Titan-2 Sump



TYPICAL APPLICATIONS

- Removal of water from cellars and basements
- Collection and pumping of surface water

LIMITATIONS

Not recommended for sewage. Please use [Newton Trojan Pumping System \(TR13 - TR49\)](#)

SPECIFICATION

Newton Waterproofing Systems are in partnership with RIBA NBS who publish details of our products and systems within their specification clause library to allow Architects ease of specification through their NBS Plus interface.

NBS clauses can be accessed via the technical resources area of the website where a live NBS Feed is available at [NBS Plus Live Feed](#)

Our website has drawings available for download here [Technical Drawings](#) and a selection are also available via [FastrackCAD](#)

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ANCILLARY OPTIONS

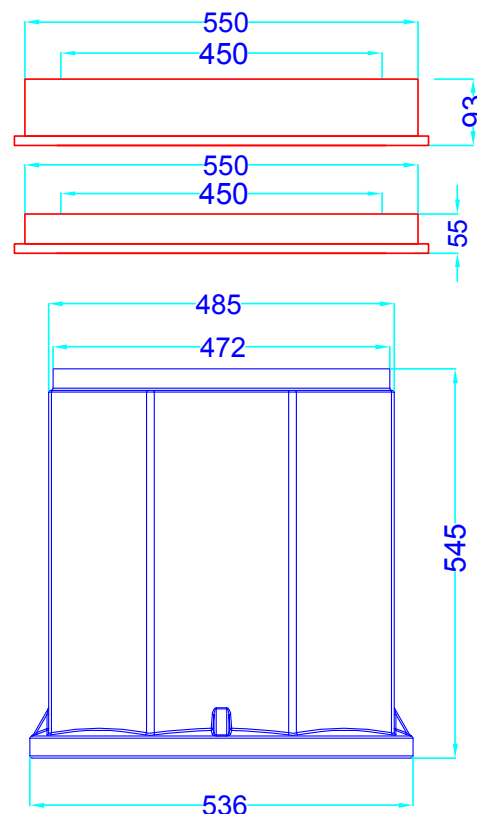
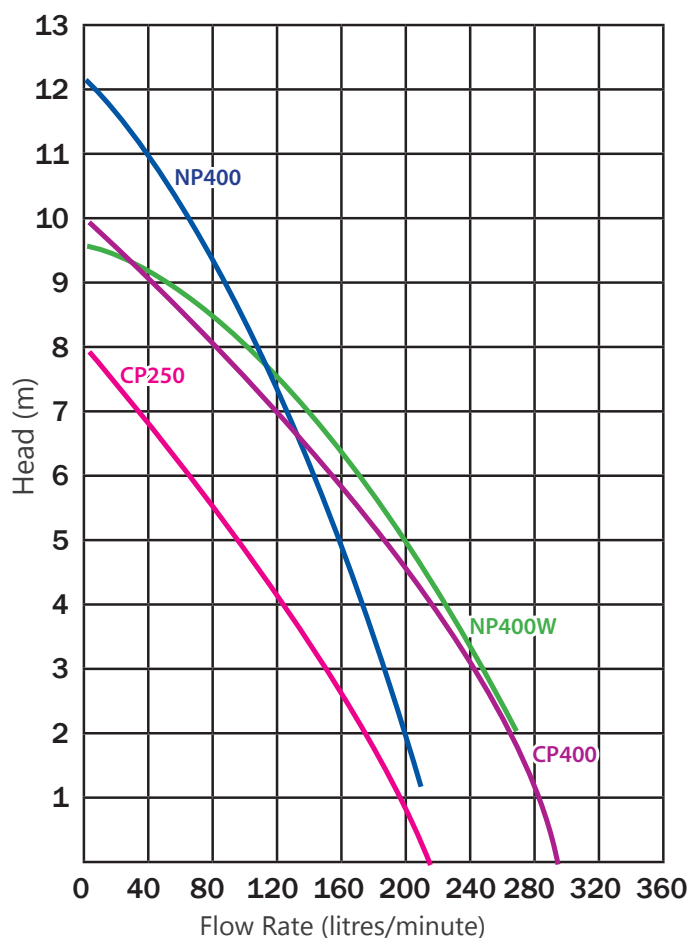
- Power failure protection for [CP250](#), [CP400](#), [NP400](#) and [NP400W](#) pumps - [Newton Victron Power Inverter 12/1200/50](#) - Newton Code BB2
- Newton Text and Speech [Dialer](#) that can send either text or voice messages to up-to five designated phones should an alarm condition occur - Newton Code PA5
- Advanced pump control with the [Newton Control Panel-Pro](#) that features a weekly diagnosis of the pumps - Newton Code CP2. Only for use with 2 x NP400 (M) pumps.

PUMP OPTIONS

The Titan-2 is supplied with one or two of the following pumps. Please check the duty chart below to ensure the pump duty is as required.

The automatic pumps, except for the NP400W, are supplied with Vertical Float Switches that allow for very flexible pump switching, allowing for adjustment of the ON & OFF positions of each pump, as well as the overall height of the pump switching. The NP400W has an adjustable float system that is unaffected by effluent and washing machine waste. Please see pump data sheets for further information.

PUMP DUTY CHART



Pump Name	Water Type	Number of Pumps	Product Code
CP250 (A)	Clean water	One	T21
CP250 (A)	Clean water	Two	T22
CP400 (A)	Clean water	One	T25
CP400 (A)	Clean water	Two	T26
NP400 (A)	Clean water	One	T27
NP400 (A)	Clean water	Two	T28
NP400 (M)	Clean water	Two	T29
NP400W (A)	Effluent	One	T30
NP400W (A)	Effluent	Two	T31

(A) Automatic pump

(M) Manual pump - requires control panel

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SYSTEM PARTS

Included within the system packaging is:

- 1 x Locked & Sealed Lid & Frame with 46 mm recess. 80 mm recess or galvanised and brass or stainless steel edged lids and frames are available as options - please see page 3.
- One or two Newton CP or NP pumps as ordered using codes confirmed across the page.
- 1 x check valve per pump. The valve has a BSP thread to the top and the bottom of the valve and screws directly into the pump. An 1 ½" BSP to 50 mm socket is supplied with each valve. This screws into the top of the valve to provide a socket ready for the supplied internal pipework.
- 50 mm pressure rated pipework including a shut off valve. Single pump systems have a single 'in-line' shut-off valve and twin pump systems have a three-way shut off valve to allow for disconnection of one pump whilst the other is still operational.

- 1 x sump wall discharge assembly that terminates to a 50 mm socket outside of the sump ready for 50 mm pressure rated pipe.
- 1 x PA50 High Water Level Alarm.

Please note: The sump is supplied without any holes cut to the chamber wall. Inlet and outlet connections and separate conduits for the 230V pumps and 12V Alarm should be cut on site by the installing technician. The discharge line requires a 51 mm hole cutter (not supplied). Inlet connections will require a hole cutter suitable for the size of the inlets. The vertical pipe is supplied slightly over-sized and will need to be cut to the correct size as determined by the discharge line outlet position. Conduit and solvent weld glue is not supplied but required for the installation.

OPTIONS

A number of ancillaries are available for use with the Titan-2:

ITEM

Product Code

uPVC Pressure Rated Discharge Pipe

50mm Pipe - 2.5m lengths

PP1

50mm 90 degree elbows

PP2

50mm 45 degree elbows

PP3

50mm female-female sockets

PP4

50mm Tee

PP5

50mm wall mount clips

PP6

1 ½" BSP to 50 mm Hosetail

PP28

1 ½" BSP to 50 mm Socket

PP43

uPVC Weld-on WetR 0.24 litre

G2

Alternative Frame and Lid

Polypropylene Frame - Galvanised Steel 80mm recess block paviour lid for external use

TPSL1

Polypropylene Frame - Polypropylene Flat Patterned Lid for external use

TPSL2

Galvanised Frame - Galvanised Steel 600x600x45mm lid for higher quality internal use

TPSL3

Galvanised Frame - Galvanised Steel 600x600x45mm lid with brass edging for very high quality internal use

TPSL4

Galvanised Frame - Galvanised Steel 600x600x45mm lid with stainless edging for very high quality internal use

TPSL5

General Options

Wall flange for 63mm inlet

TPO1

Wall flange for 110mm inlet

TPO2

Hole Cutter for 110mm wall flange

PA34

Arbor for hole cutter

PA33

Conduit Kit

TPK5

Newton Waterproofing Systems reserve the right to update product literature at any time. Please always refer to our [website](http://www.newtonwaterproofing.co.uk) for the latest versions.