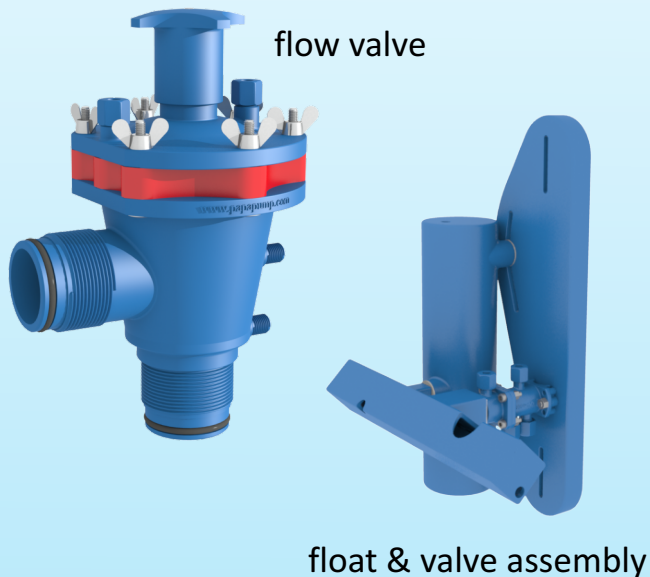


The SUREFLOW™ system has been designed with simplicity and robustness to compliment these very same attributes which are at the heart of any Papa Pump system.

All the wear-related components are manufactured from our specially-formulated elastomeric compounds, which are both hard wearing and simple to replace. The main structure of the valves are manufactured from the same high-performance thermoplastic composite as used in the Papa Pump, incorporating exceptional strength with complete corrosion resistance for decades of service.



Water Powered Technologies Ltd  
14A Kingshill Industrial Estate,  
Bude, Cornwall, EX23 8QN, UK  
+44 (0)1288 354454  
info@wptglobal.net  
www.waterpoweredtechnologies.com  
waterpoweredtek



© Water Powered Technologies Ltd. 2016

## Your Effective Zero Energy Pumping Solution

The combination of the PAPA pump and the SUREFLOW™ automatic flow regulation system signifies another revolution in the operational ability of ram pump technology.

Water Powered Technologies is the only company to design and deliver not only the unique composite Papa ram pump, but a self-regulating composite ram pump for 21<sup>st</sup> century, zero-energy water delivery.

- Pumps will operate with a negligible water flow.
- No need for a range of pump sizes to suit flows.
- Pumps will operate at maximum efficiency
- No requirement to adjust pump settings throughout the year
- No need to stop pumps in the summer.
- Allows simple integration of exhaust water recirculation by additional means.

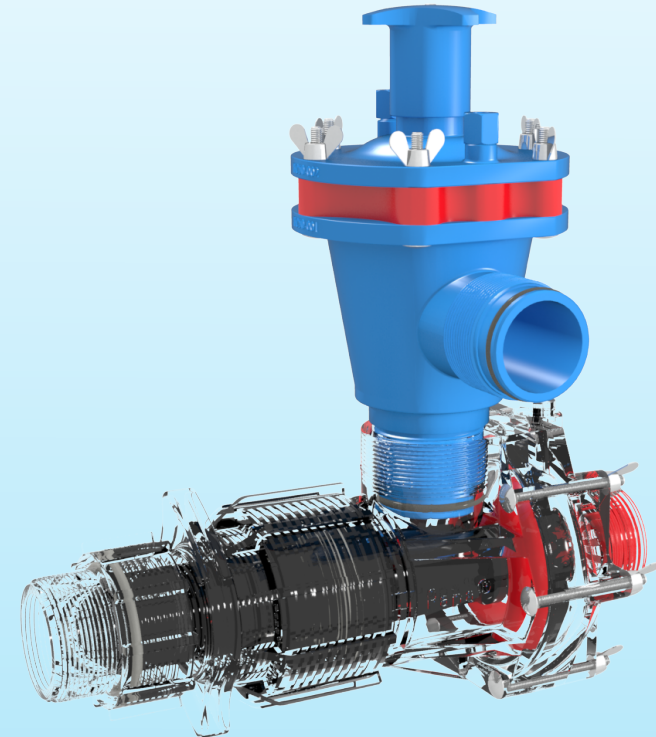
manufactured using WRAS approved thermoplastic



# Papa Pump®

Water Powered Technology

**NEW!** the  
**SUREFLOW™**  
automatic flow regulation system



The Papa Pump will now operate with negligible water supply without adjustment!

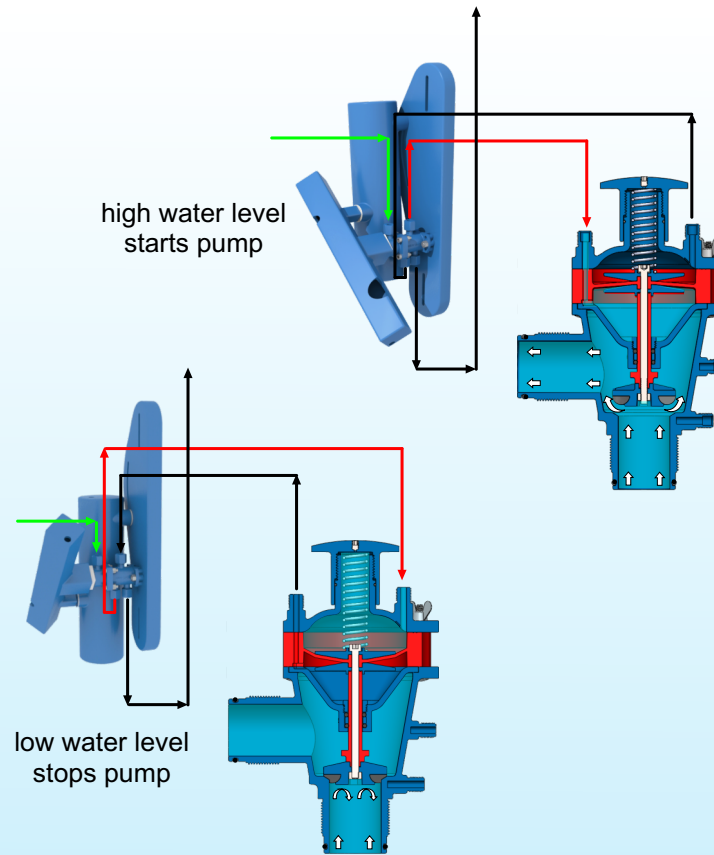
www.waterpoweredtechnologies.com

## How it operates

Without a *SUREFLOW*<sup>TM</sup> system, a low water supply entering the supply tank might be insufficient to allow the Papa Pump to operate effectively. With a *SUREFLOW*<sup>TM</sup> system, as the level in the tank drops, the float arrangement will cause the float valve to open - thereby allowing water pressure to close the flow valve on the pump, preventing water to flow through it.

As the water level in the supply tank rises, it will cause the float arrangement to close the float valve, allowing the flow valve to re-open and the pump to automatically restart.

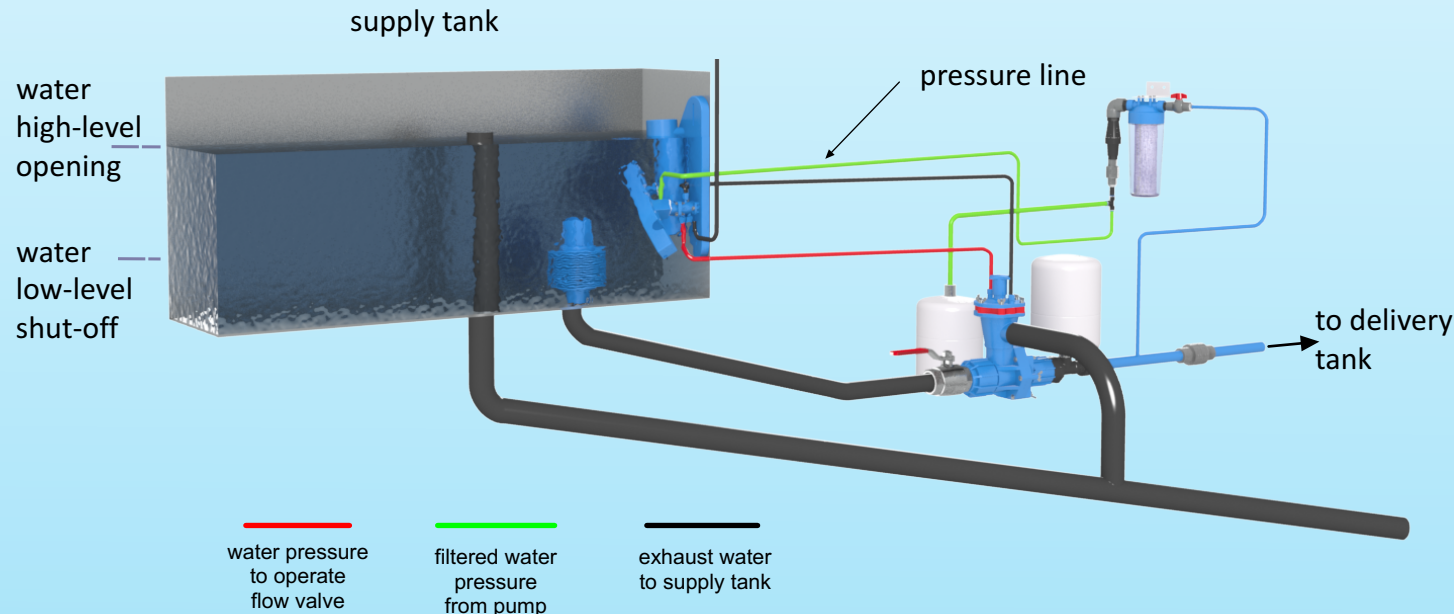
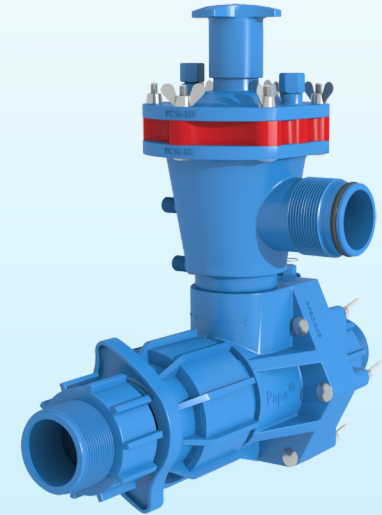
At times of low-flow in water courses, this system can automatically restrict the abstraction of water when it is below a minimum level in accordance with environmental considerations. This allows the system to operate fully automatically to the benefit of ourselves and the environment.



## Simple installation

The *SUREFLOW*<sup>TM</sup> self-regulating system is simple to install:

The float valve assembly is secured to the inner wall of the supply tank by two screw mountings. The flow valve is simply screwed in to the exhaust port of the Papa Pump.



A connection is made to the delivery hose of the pump and the in-line filter and pressure regulating valve assembly is secured to the inner wall of the pump chamber. A pressure vessel is connected with a filter, providing a clean water supply to operate the valve equipment.

Three 8mm diameter plastic pipes are used to connect the float valve to the flow valve and delivery supply - which should be fed through a 32mm conduit for protection.

Water Powered Technologies recommend that this conduit is always installed underground with a Papa Pump system to accommodate subsequent fitting of a *SUREFLOW*<sup>TM</sup> valve.