

P2P

PUMPING TO PERFECTION



GENERAL PUMP COMPANY
SINCE 1975

STORMWATER DISPOSAL ISSUES?

- What costs more, a quality submersible pump, or flood damage repairs?
- Are the stormwater pumps large enough?
- Is the pipework sized right for large amounts of water?

Call the experts today on 1300 662 787! The team at General Pump Company have been in business long enough to know that it's only worthwhile selling good quality, reliable submersible pumps that will work when they are most needed. Torrential rain and flash flooding can happen very quickly, and if poor quality, underperforming submersible pumps are used, then the subsequent damage and resultant cost

could be a lot higher. General Pump Company stock thousands of 'Ultraflow' stormwater pumps of various sizes and capacities. When it comes to sourcing quality, reliable submersible pumps, look no further. **GIVE GENERAL PUMP COMPANY A CALL WITH YOUR STORMWATER PUMP APPLICATION!**



Some of the Ultraflow Submersible Sump Pump Range held in stock...



PRODUCT FOCUS See page 2
ULTRAFLOW PACKAGED PRESSURE BOOSTERS

Hello & Welcome to the September/October edition of P2P!

You may wonder whether General Pump Company is Australian owned and operated?

It's a question often asked, and, YES it is! 100% Australian owned and further more a family managed business! Yes, same family, with 3 generations having worked in the business and the 4th generation soon to join. What does this mean for you?

- Being a family business, we care and strive to offer the best possible buying experience.
- The experience obtained over the last 39 years in the pump industry has and is being passed down, consolidated and expanded within the family. This means you're dealing with those who know the industry.
- Each member of the family business wants to ensure that our customers are treated with the respect, integrity and trust that makes us stand out from the rest!
- The family team has a keen and vested interest in the business. The quality products that we offer, and our professional customer service, reflect this.

Call our team of pump experts today for all your pumping requirements...

T: 1300 662 787

PRODUCT FOCUS

Frustrated with low town mains pressure? Needing a pressure booster pumpset?

General Pump Company has been designing, manufacturing and servicing pressure booster pumpsets for over 39 years! Low water pressure is becoming a major issue in many areas, especially in areas of high water usage.

General Pump Company can design and build pressure booster pumpsets as complete turnkey packaged systems for applications including:

- Water supply to homes, farms, factories
- Rainwater reuse
- Irrigation Systems
- Stock watering

Advantages:

- Constant pressure
- Fully factory set and tested prior to dispatch
- Energy saving variable speed drives
- Fault logging and alternating Start
- Quick delivery



**CONTACT US
WITH YOUR
SPEC FOR
PRICING!**

Some of the Vertical Multistage Pump Brands used in pressure booster systems



GRUNDFOS

DAVEY

EBARA

▲ The above quad pump booster system was designed and supplied to boost mains pressure in a multistorey building complex.

The system included four (4) Ultraflow UVM32-6 multistage pumps fitted with motor mounted variable speed drives, complete with stainless steel suction/discharge manifolds.



Day and night, 24 hours a day, 7 days a week, 52 weeks of the year, the Nepean Hospital at Penrith, NSW cares for hundreds of patients. The medical staff are dependent on specialised medical equipment being operational at all times.

A constant, reliable warm water and hot water supply is one of the critical requirements throughout the entire hospital. Many of the sanitising machines that sanitise the medical equipment must have a minimum water temperature of 60°C. If the machines do not have the correct temperature they will not operate at all.

Over a period of time, the maintenance crew at Nepean Hospital have been installing the Ultraflow circulating pumps (pictured) on the



warm water and hot water services. These pumps have very high efficiency motors and have minimal power consumption. The 'ULTRAFLOW' UCV range of circulating pumps are much more efficient than most brands of circulator pumps in the marketplace and provide substantial energy savings every year. At Nepean Hospital the 'ULTRAFLOW' UCV20-60B-150 circulator pumps are used to constantly circulate warm water to the hospital

sinks, sanitizing machines and taps... including the Emergency Department. One of the fitters at the hospital says:

“The return line water temperature has risen by 2°C since we’ve installed the ‘ULTRAFLOW’ pumps, and the higher return temperature the better for all!”

‘ULTRAFLOW’ circulator pumps are produced in the heart of Europe by a manufacturer that has designed and manufactured circulator pumps since 1947. The ‘ULTRAFLOW’ circulating pumps have proven to be extremely reliable, and this is critical in demanding environments such as hospitals.

The hospital has many of these pumps throughout, and although the energy savings from these small motors are not likely to make a lot difference to the huge energy costs of such an extensive complex, the combined reduction in power consumption is definitely saving energy and money, which is better directed to other needs in the hospital.



NEPEAN HOSPITAL - WEST BLOCK



ONE OF THE ULTRAFLOW CIRCULATION PUMPS



EMERGENCY DEPARTMENT WHERE HOT WARM WATER IS CIRCULATED

Q&A: Is there a difference between the various brands of brass spring loaded non-return valves?

Q: Is there a difference between the various brands of brass spring loaded non-return valves?

A: Yes there sure is. Some brass spring loaded check valves have a metal sealing seat, and some have a plastic seat.

Q: Which is better - plastic or metal seated spring loaded non-return valves?

A: Metal seated valves are highly recommended. We have found that plastic seated valves fail much more quickly than metal seated valves. This is very noticeable when pumping at higher pressures i.e. pressure boosting.

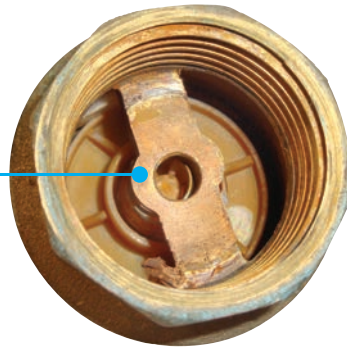
Q: Do plastic and metal seated spring check valves have the same pressure rating?

A: Yes, most standard types are rated to 10 Bar. Although both metal and plastic seated valves are rated to the same pressure, the plastic valve is more suited to lower operating pressures.

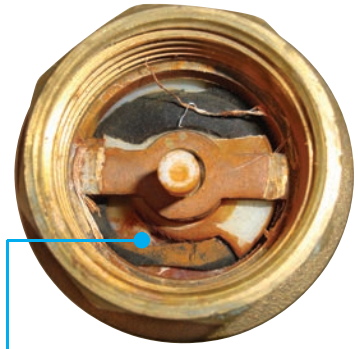
Q: What pumps should spring non-return valves be installed on?

A: Firstly, spring loaded brass non-return valves should never be used on submersible sump pumps that are pumping stormwater or sewage. They have a much smaller passage compared to swing check valves and debris can easily get caught around the spring.

Spring check valves are normally used in clean water applications and for applications where there are higher system pressures. The spring keeps tension on the seat to keep it closed to prevent water hammer. Sometimes the spring tension can be high, which is another reason not to use them on submersible sump pumps for stormwater/sewage applications, as these types of pumps don't always have the pressure to push the spring up.



Plastic seated spring loaded check valve with the plastic guide spigot snapped. The pump system was operating at a high pressure.



The same plastic seated spring loaded check valve with the plastic seat cracked and jammed.

Q: What will happen if a check valve fails in a pump system?

A: It is important to have a reliable check valve in the system. If the check valve fails, then liquid will simply flow back through the pump! In single pump applications the pump can continually start and stop. In a system where there are two or more pumps, the first pump will simply pump water back through the second pump! As a result, the pump system will never turn off,

the pump runs continuously and can overheat.

Q: What brands of spring loaded check valves have a metal seat?

A: There are a few different brands, General Pump Company stocks the 'Europa' check valve which have a metal seat and are made in Europe. We have found these valves to be very reliable and offer a good service life.



Quote of the Month: "Capitalise on the past, anticipate the future, but focus on today"



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