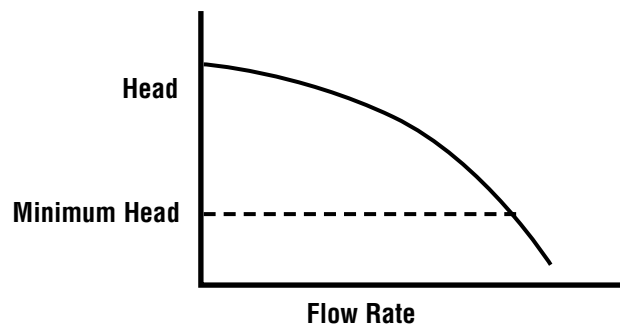


Centrifugal Pump Protection using Maric Flow Controllers

Centrifugal pumps can suffer “upthrust” damage when allowed to operate below their minimum operating head, and deliver more than their designed maximum flow rate.

One tamper-resistant method of protecting the pump against this, is to place a correctly sized Maric flow controller at the bores’ headworks.

For a given pump, most vendor manuals show its characteristic curve. Flow rate and pump head should be maintained within manufacturers specifications for longevity of the pump.



Upthrust damage can occur on:

- **Any bore**, where people can unwittingly open up the bores’ gate valve in an attempt to increase flow rate.
- **High draw-down bores**, – i.e. a relatively high standing water table at start-up, as compared to a much lower level for the normal operating condition. At start -up, these pumps have little head against them.
- **Empty pipework at startup**, i.e. lack of, or faulty check valve, or where lines on the surface may drain empty. It takes time to fill pipes sufficiently to obtain the required head.
- **A burst in the pipework.**

Further protection provided by Maric flow controllers:

- Protection from over-pumping to the point of drawing in air or sand, leading to cavitation, unstable conditions and pump damage.

Maric Flow Controllers are:

- Tamperproof: Maric valves are non-adjustable, which prevents owners from trying to “get more from their bore”.
- Maintenance free, reliable and self-cleaning: As there are no wearing parts, the valves require no maintenance, adjustment or cleaning during their 20+ year life span.

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