

## Pump Reliability via common sense

Would you like to know how to make a "cheep" pump last ??

..or make a good pump last longer ??

"name-calling" by pump brand is a waste of time.

I have chimed-in on pump issues many times with the same statement:

How you use a pump, .. and how it is plumbed is ALL the difference in Lifespan, .. and what you have to replace.

We frequently replumb pressure-feed portables in our service department

..with a high-volume bypass,

so they don't overheat in bypass NEARly as easily, ..when you leave the gun off for several minutes.

They should only need seals when you wear them out.

A "replaced" pump.. has the SAME "limitations" as the old one had, ..unless you fix the plumbing problem.

FIX it once, and for all..

..ANY air-leak, kinked hose, plugged filter, a flow-restrictive fitting, at every opportunity.

"Limited water supply".. of ANY kind, is a problem to reliability.

And DO NOT allow a pump to over-heat in bypass.

Please be clear.. I'm not a flag-carrier for ANY one brand of pump..

I am simply trying to help you'all understand the mechanics of pumps.

"Eliminating the bugs" is my specialty.

Pock-marks, or "rat-bites" in your seals are caused by cavitation. period.

Fabric showing, with scorch-marks means you ran it without water, or overheated it in bypass. period.

A glazed look, except right at the wear-surface is a "normally" worn seal.

Cracked plungers means you have run it low on water, or you cavitated the he// out of it.

By the way.. thicker plungers are MUCH more crack-resistant.

I like the rebuildability of the classic TS2021, and it's brothers, with those thin ceramics are an easy sale in our service department.

AR plungers almost NEVER crack. Comet plungers RAREly crack,

Giant plungers rarely crack.

There is one brand of pump I REALLY don't like.. it is NOT the beefiest as they promote,

..and their seals and other part prices are an insult to a "Cost-Effective" lifespan,

but we know how to make them last as long as (almost) ANY pump.

by plumbing it for "the perfect water supply".

Call your favorite tech with questions.

Paul, Russ, me, someone that understands fluid dynamics.

And remember.. when you convert a system to tank-feed..

use a BIG filter, with a medium-mesh screen, use a HUGE feed line,

"dual-feed" a pump larger than 5gpm, bypass back to the holding tank,

REMOVE fittings that are not brass on the inlets of the pump,  
and REMOVE the thermal relief !!! ..or it will suck air,  
and cavitate your "favorite" seals to an early death.