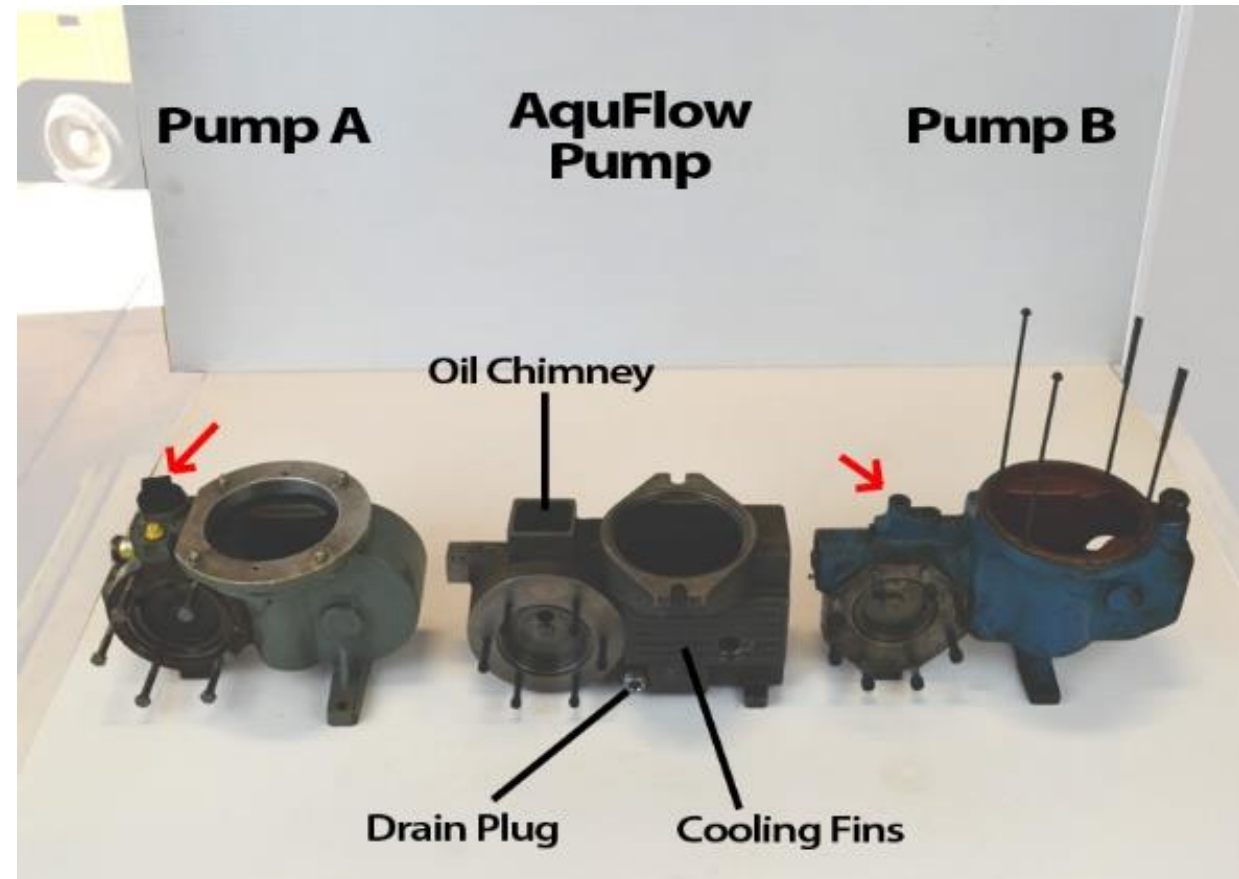


AquFlow Vs Competitors

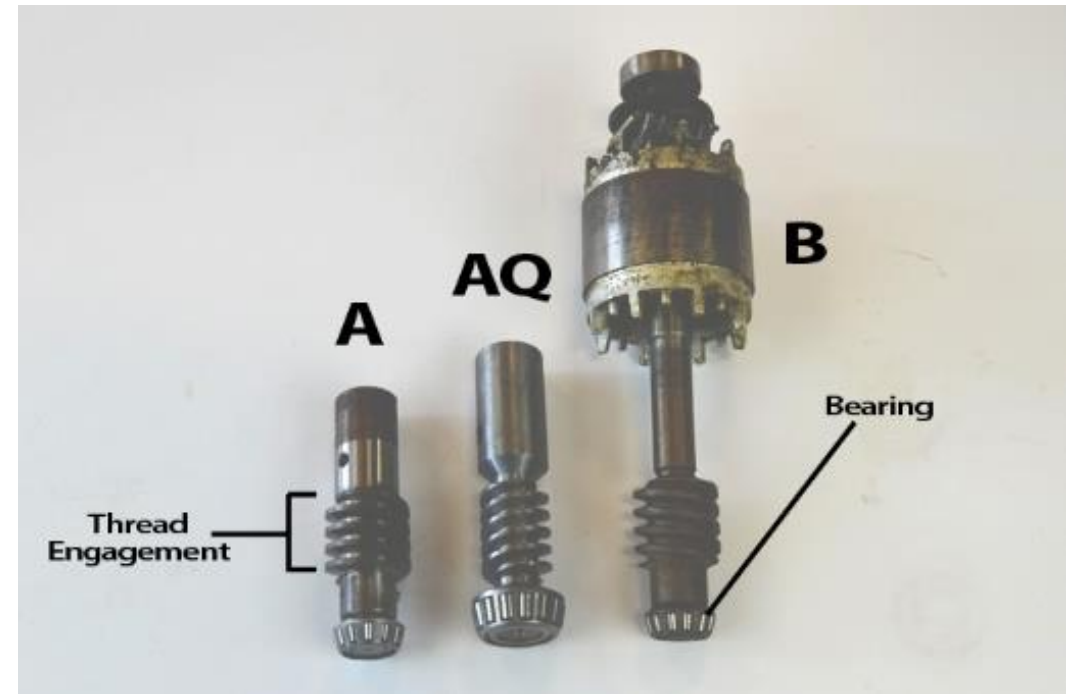
Pump Frame – Housing Comparison

AquFlow	A	B
Heavy Duty Industrial Design with cooling fins	Smaller lighter duty frame	Smaller lighter duty frame
Integrated Direct C- Face Motor mount	Two piece design with Motor adapter separate	Needs special motor without the front face
Easy Access to all serviceable parts on the same side	Drain plug on the opposite side	Same
Checking and replenishing oil easier at the top square chimney	Smaller hole to check and replenish oil	Smaller hole to check and replenish oil



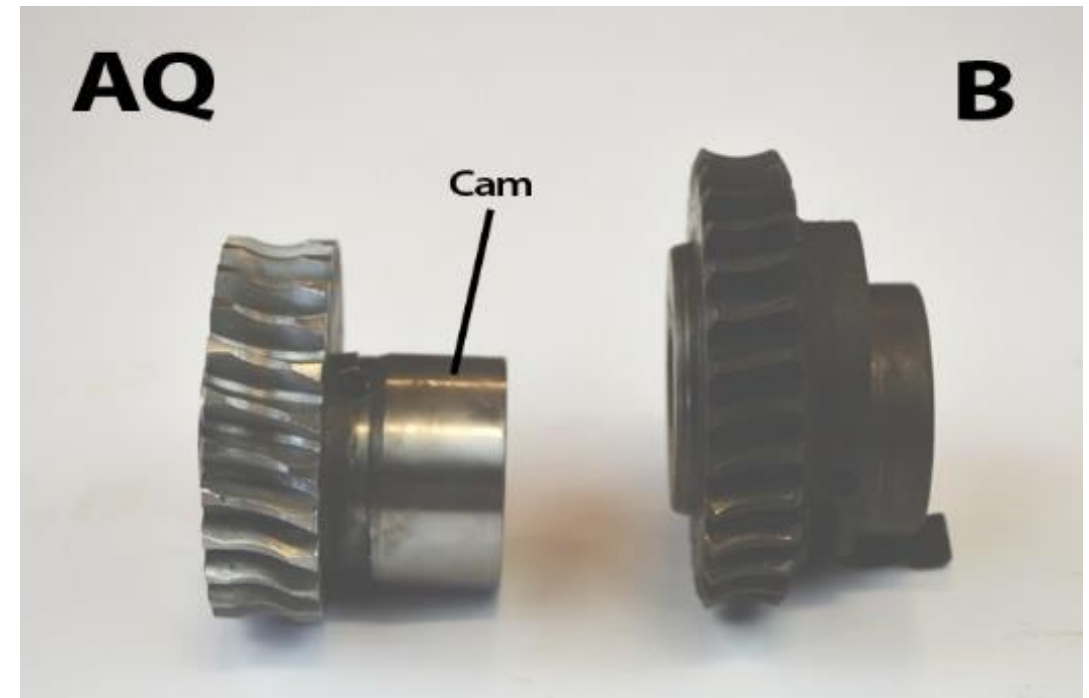
Worm Shaft Assembly

AquFlow	A	B
More thread engagement - better alignment, less noise, more torque and less wear	Small thread engagement area	Small thread engagement area
One piece worm shaft.	2 piece design. More difficult and weaker.	Multiple pieces with motor rotor integrated. Serviceability nightmare.
Larger conical shaft bearing – longer life, quieter, more efficient	Small bearing	Small bearing – even though there is no motor bearing in front, unstable.



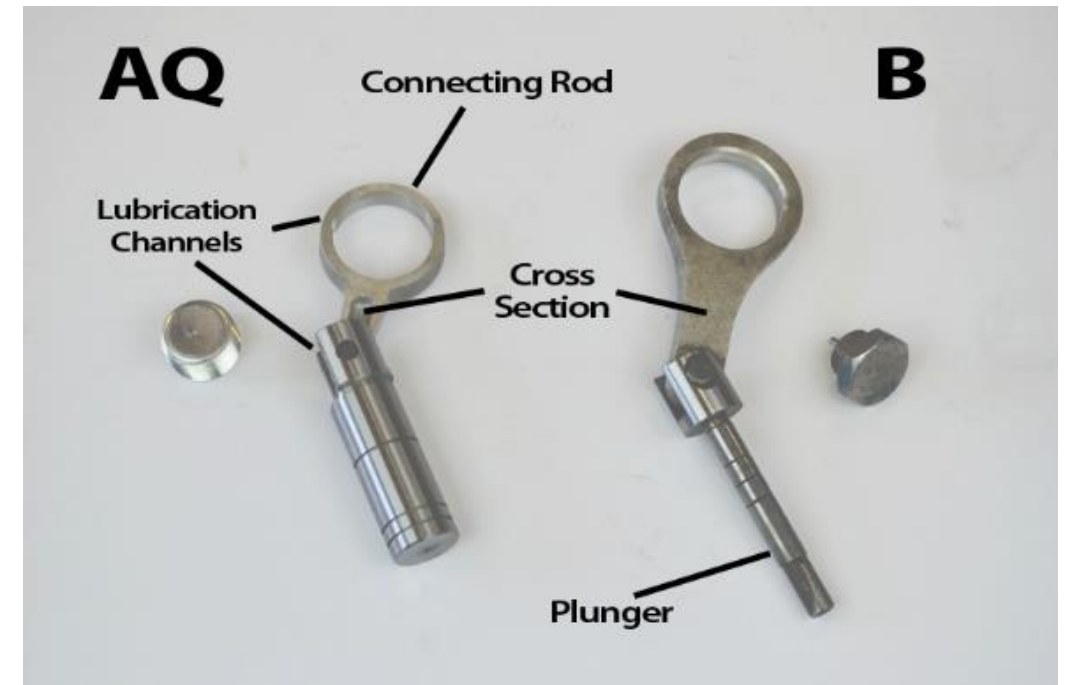
Worm Gear Assembly including Gear Shaft

AquFlow	A	B
Thicker profile – more engagement, less wear, quieter.	Narrower profile – less engagement and weaker design	Narrower profile – less engagement and weaker design
Wider Cam surface for better alignment and lubrication	Narrow cam surface	Narrow cam surface
More Surface Area to run on gear shaft		
Gear Shaft has O-ring seals – Easy to change by sliding the shaft out a little. No disassembly required.	Cannot service in the field. Cannot get the gear shaft out at all.	Gear shaft is secured only from one side.



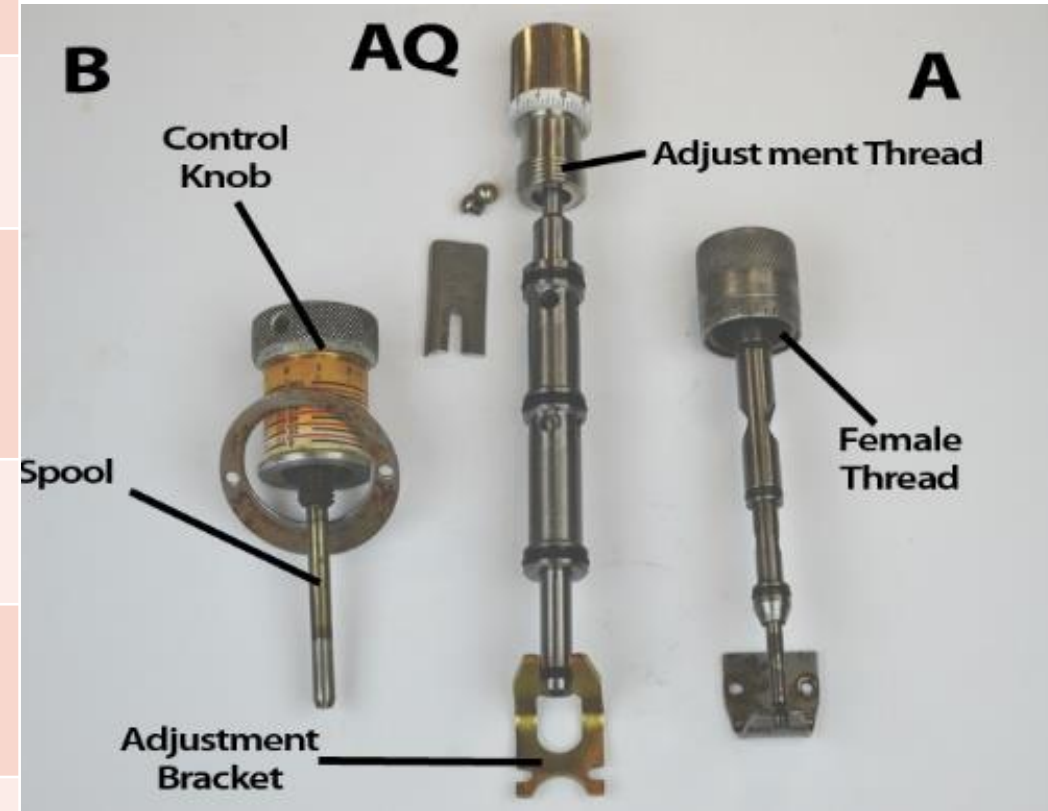
Connecting Rod and Plunger Assembly

AquFlow	A	B
Shorter length of connecting rod for stability and strength.	Long connecting rod making for weaker mechanism	Long connecting rod making for weaker mechanism
I Beam cross section of connecting rod. Stronger.	Flat cross section	Flat cross section
Lubrication channel for smoother running	No lubrication channel	No lubrication channel



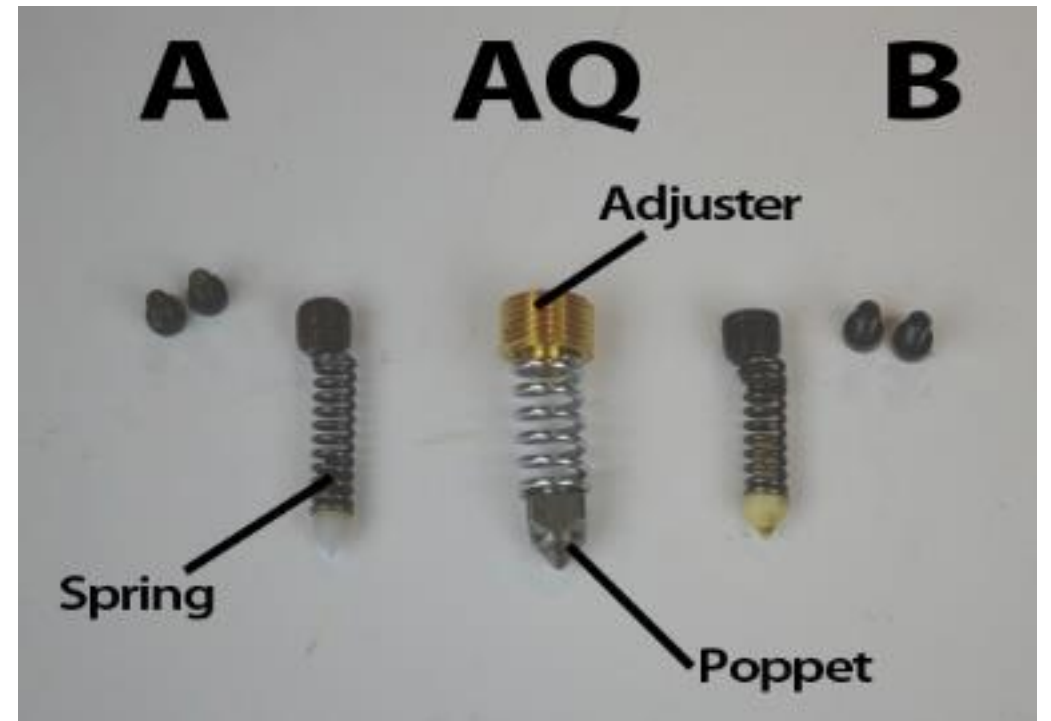
Capacity Adjustment – Spool Valve Assembly

AquFlow	A	B
Control Knob is solid 316 SS	Aluminum knob	Aluminum knob
Adjustment thread is larger diameter and higher TPI	Female threads on aluminum knob assembly	Very small diameter threads
Larger diameter spool for hydraulic efficiency and easier purging of any trapped air	Smaller diameter spool could not be as efficient and more difficult to purge air	Smaller diameter spool could not be as efficient
Larger replenishment holes for oil	Smaller holes – more difficult to replenish	Smaller holes – more difficult to replenish
Sturdier Zinc plated adjustment bracket that easier to access	Thinner bracket and not as accessible	Thinner bracket and not as accessible
Easy to remove the assembly by one screw	Two or more set screws make it more difficult	Two or more set screws make it more difficult



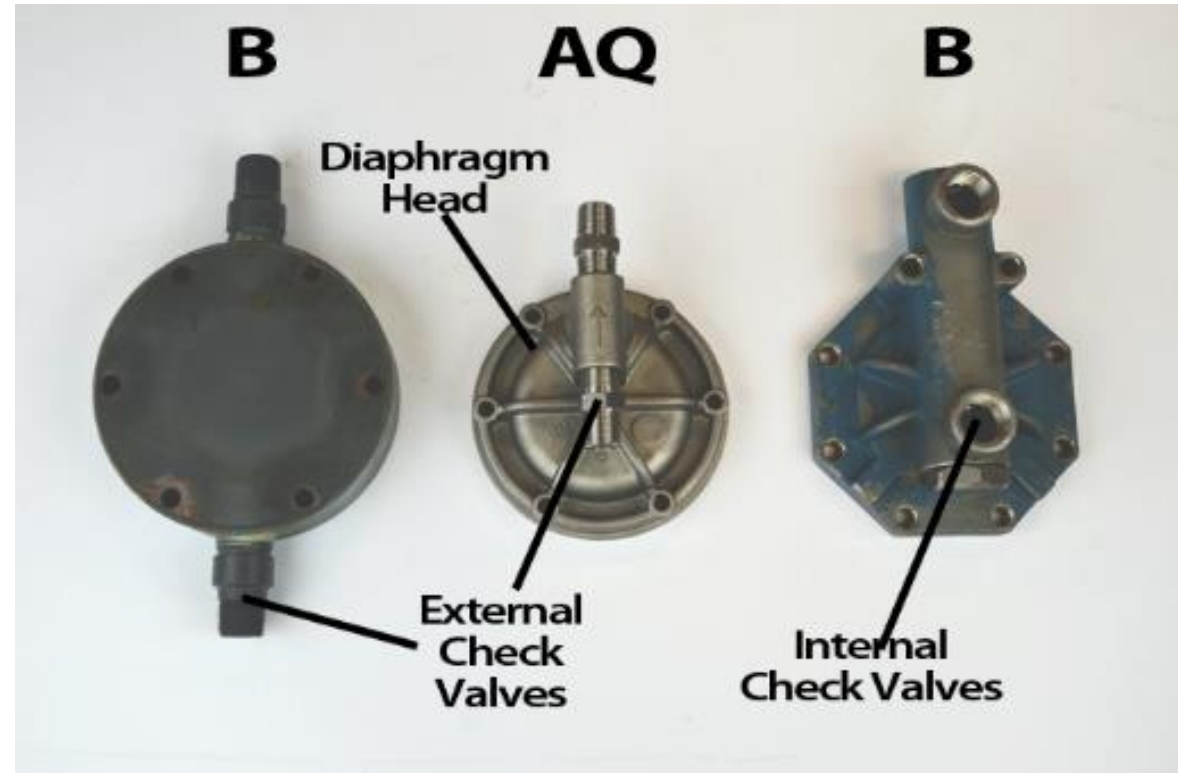
Internal Relief Valve Assembly

AquFlow	A	B
Metal poppet, larger diameter – better sealing, less wear	Small plastic poppet – leakage due to wear	Small plastic poppet – leakage due to wear
Bulkier larger diameter spring	Smaller weaker spring – less stable	Smaller weaker spring – less stable
Larger Brass Adjuster – Easy to identify	Smaller Steel Adjuster – Not as easy to identify	Smaller Steel Adjuster – Not as easy to identify
Adjuster located inside a closed chimney – protected from easy or unintentional tampering	Adjuster located out in the open – environment and unintentional tampering risks	Adjuster located out in the open – environment and unintentional tampering risks



Liquid End - Check Valves And Diaphragm

AquFlow	A	B
External Check Valves – easy to service and replace	External Check Valves – easy to service and replace	Internal Check Valves with complex disassembly and not entirely replaceable
PTFE diaphragm with O-ring seals.	PTFE diaphragm with a Square cross section gasket.	PTFE diaphragm with no O-ring seals. The only seal is the press on a non-elastic diaphragm which could take a set.
Diaphragm Assembly allows the diaphragm to flex a bit with each stroke.	Diaphragm is trapped under bolts which does not allow the diaphragm to move which causes deformation and creasing over time.	Diaphragm Assembly allows the diaphragm to flex a bit with each stroke.



AquFlow Design Evolution

AquFlow	A	B
<p>AquFlow started in 1972 as Hydroflo with the sole objective to upgrade the existing metering pump designs at the time.</p>	<p>This was the line that Hydroflo aimed to improve upon.</p>	<p>The design philosophy here seems to emphasize upon cost savings.</p>
<p>AquFlow quickly expanded the product line to the most complete range with 900, 1000, 2000, 3000 and 4000 with > 3,500 GPH</p>	<p>Also evolved over time but with all its iterations and acquisitions, it is the only line than can match or exceed AquFlow range.</p>	<p>The range is limited to 1 or 2 frame sizes and capacities up to 240 GPH. Focus not on customer needs but on economies of scale.</p>



AquFlow – A Different Business Model

AquFlow	A	B
Small Entrepreneurial Company - Owned and Operated by Engineers	Large Corporation part of a larger investment company – BC Partners / Carlyle Group that owns PetSmart and Supermarkets	Mid-sized company part of a large company
Answerable to customers only	Answerable to Wall Street investors	Answerable to Wall Street investors
Manufactured completely in USA. No Overseas mfg.	Overseas manufacturing.	Overseas Manufacturing.
Lead times are the fastest in the industry	Long Lead times	Long Lead times
Smaller more flexible facility that is more agile to the changing demands	Larger perhaps more rigid facility that is likely less flexible	Larger perhaps more rigid facility that is likely less flexible
Management by customer centric team of engineers	Management by numbers / bean counters	Management by numbers / bean counters

