

# System Comparison Charts



*Best Rating!*

Standard Well Pumps	Cycle Stop Valve Systems	<i>New!</i> SQE Technology
20 psi Changes in Pressure	Constant Pressure while running then 20 psi	Constant Pressure
Pressure Switch with Points	Pressure Switch with Points	Pressure Transducer no Points
Pressure Adjustable by Contractor Only	Pressure Fixed and not Adjustable	Pressure Adjustable by Owner
Dry Run Protection (Optional)	Dry Run Protection (Optional)	Dry Run Protection Standard
Overload Protection (Optional)	Overload Protection (Optional)	Overload Protection Standard
Over/under Voltage Protection (Optional)	Over/under Voltage Protection (Optional)	Over/under Voltage Protection Standard
No Performance Monitoring	No Performance Monitoring	Continuous Performance Monitoring
No Built in Diagnostics	No Built in Diagnostics	Powerful Built in Diagnostics
Hard Start 1200 lbs Torque	Hard Start 1200 lbs Torque	Softstart
Water Hammer Possible	Water Hammer Possible	No Water Hammer
3450 RPM Fixed	3400 RPM Fixed	10,400 RPM Variable
Constant Speed	Constant Speed	Variable Speed
Specified GPM	Specified GPM	Variable GPM
Winding Type Motor	Winding Type Motor	Magnetic Drive Motor
Needs Motor Cooling	Needs Motor Cooling	No Cooling Required
Maximum 100 Starts/24 hrs	Maximum 100 Starts/24 hrs	Unlimited Starts
Needs Larger Tanks for Rest Time	Needs Mid Size Tanks/can have no leaks	Small Stainless Steel Tank
Short Cycles are Bad For Pump	Short Cycles are Bad for Pump	Unlimited Cycles/ No Problem
16 GPM System	16 GPM System	22 GPM System
Maximum 1-1/2 HP Load	Maximum 1-1/2 HP Load	1-1/2 HP Performs better than 2HP Std
Tank Replacement 8-10 yrs @ \$1200	Tank Replacement 8-10 yrs @ \$650	Tank is Stainless Steel \$150
Tank Not Accessible	Tank Not Accessible	Tank Easily Accessible
All Irrigation Zones Must be Equal	All Irrigation Zones Must be Equal	Irrigation Zones can Vary
Not Good with Ground Water Heat Pumps	Not Good with Ground Water Heat Pumps	Great for Ground Water Heat Pumps
High Cost to Operate	Uses 15% less Energy than Standard	Uses 50% Less Energy than Standard
Hard to Start with Generator	Hard to Start with Generator	Generator Friendly Soft Start
Water Logged Tank Will Damage Pump	Water Logged Tank Will Damage Pump	Water Logged Tank will not hurt Pump

Standard System require enough tank capacity to prevent rapid cycling of pumps

Cycle Stop valves are good for irrigation systems with equal zones. Not recommended for normal home usage due to small tank and rapid cycling.

SQE Pumps are by far the Best overall system on the market. None other can save operating and repair cost as this design. Recommended for GWHP's, Irrigation and norm

This chart meets approval of Grundfos Engineering, DSI of Memphis, and reviewed by members of TWWA, and members of the State of TN Groundwater Advisory Board.