

ARTIFICIAL LIFT SYSTEMS

Electric Submersible Progressive Cavity Pumps

Check Valve System Whitepaper

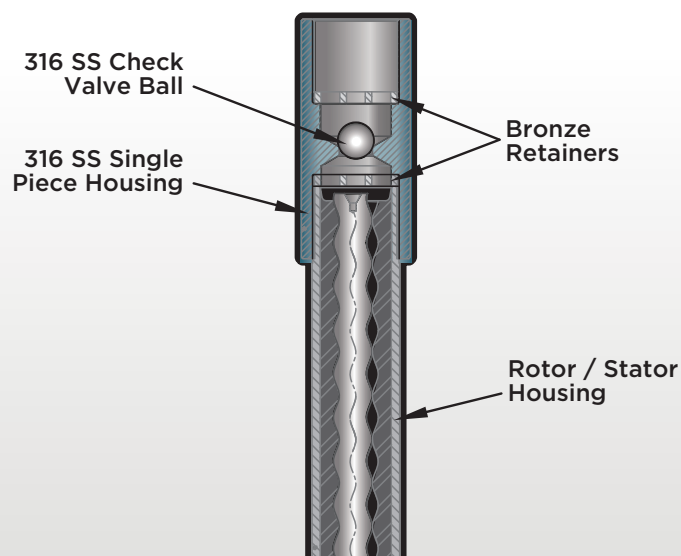
Dewatering CBM, shale gas and other energy related wells are the toughest applications an artificial lift system can encounter. Sand, coal fines and other debris, settling into a progressive cavity pump, can cause the pump to bind; therefore, the torque encountered to restart the system is too great.

For this reason, all Franklin Electric ESPCP pumps are equipped with a unique check valve system to stop debris from settling back into the rotor and stator assembly from the discharge pipe.

Our single piece check valve housing is machined from 316 investment cast stainless steel and houses a 1" diameter 316 stainless steel ball that settles into a precision machined nest. This prevents discharged debris from entering the pump. Although the check valve is not designed to be liquid tight, it will keep debris from settling into the pump rotor and stator assembly. Brass retainers allow an unrestricted diffused flow around the ball. The check valve also serves as the discharge outlet for the system. It is available in NPT and BSP thread configurations.

This Franklin Electric exclusive system has been meticulously engineered, tested and proven in the field to ensure optimal performance in the most demanding applications.

Simple, straightforward, reliable.



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