

ARTIFICIAL LIFT SYSTEMS

Electric Submersible Progressive Cavity Pumps

Flex Shaft Assembly Whitepaper

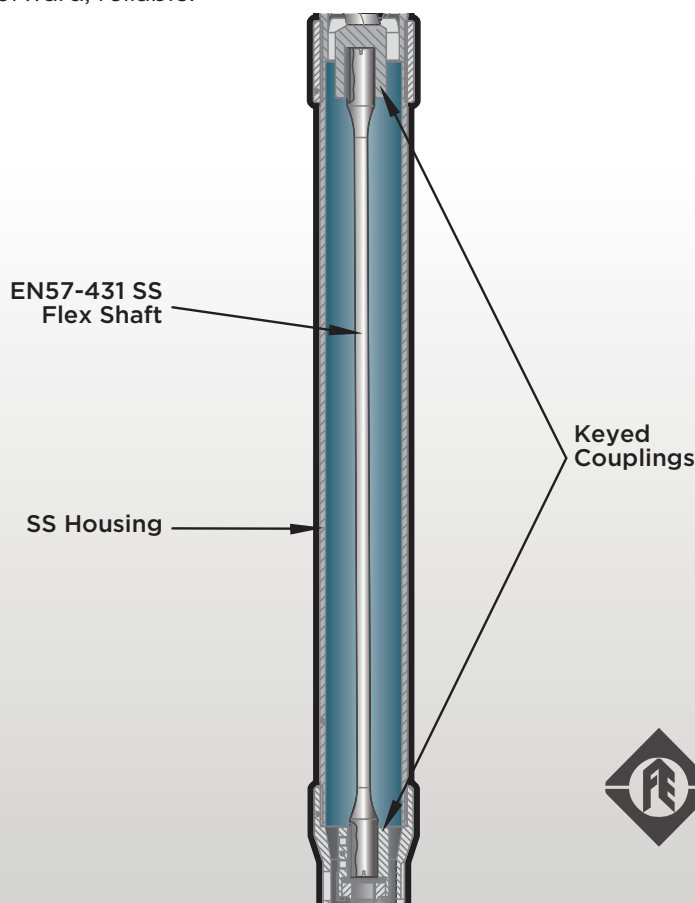
The flex shaft assembly in Franklin Electric ESPCP products is a simple, direct method to transfer rotational power between the motor shaft and the pump rotor. The EN57-431 stainless steel material provides corrosion resistance from the severe conditions found in gas and petroleum applications. The material is heat treated and gives the shaft a high tensile strength, while allowing the shaft to flex, so that the small amount of eccentric motion generated by the rotor is not transferred to the motor shaft.

The flex shaft has been designed and sized to withstand 2-1/2 times the load of the ESPCP pump to which it is applied.

The flex shaft assembly, with its keyed connections, is simple and less complicated than gear reduction systems that are typically installed between a submersible motor and a progressive cavity pump. Fewer parts mean fewer opportunities for failure.

This Franklin Electric exclusive assembly 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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