

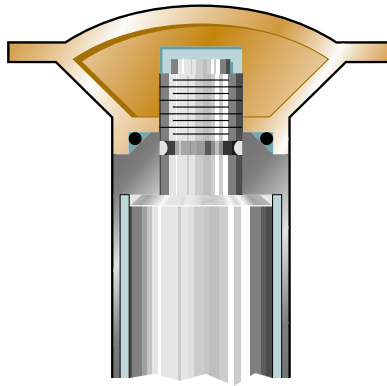
## *Metal-to-Metal Impeller/Shaft Sleeve*

On the standard Stan-Cor Kynar pump design, the drive shaft is protected by a Kynar-encased sleeve that threads directly into the impeller hub. An O-ring seals between the Kynar of the impeller and the Kynar of the shaft sleeve to insure that corrosive process fluids do not come into contact with any metallic parts.

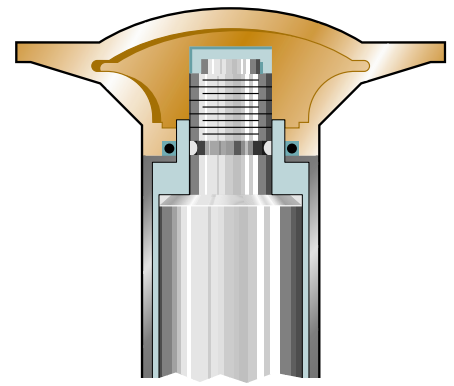
***For added protection on demanding applications which utilize large-size impellers over 9" in diameter, the Stan-Cor PST-A60M, PST-A30 and PST-A40 can be fitted with an optional MTM impeller/sleeve design in which the metal insert of the shaft sleeve extends around the drive shaft.*** When the shaft is threaded into the impeller and tightened, this sleeve extension forms a solid metal-to-metal contact with the impeller hub for added impeller stability.

For strenuous pump applications in which the pump undergoes excessive cavitation or in which the pump is allowed to "run off the curve"

Standard Sleeve Design



Metal-to-Metal Sleeve Design



because of low head and high flow requirements, the MTM option provides the added impeller stability to help avoid the possibility of excessive impeller deflection. As with the standard design sleeve design, the MTM sleeve is coated with Kynar and an O-ring seals between the sleeve and impeller so that no metallic parts come into contact with the process fluid.

If occasional upset conditions as described earlier occur in the application, the MTM design option should be considered to help protect the pump from damage during the occurrences. The MTM design will not stop the effects of cavitation, but it can protect the pump from damage for a period of time. System problems that lead to these occurrences must still be dealt with to insure proper and trouble-free operation of the Stan-Cor pump.

## **When to use MTM (Metal-to-Metal) Impeller/Shaft Sleeve Kynar Pumps**



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