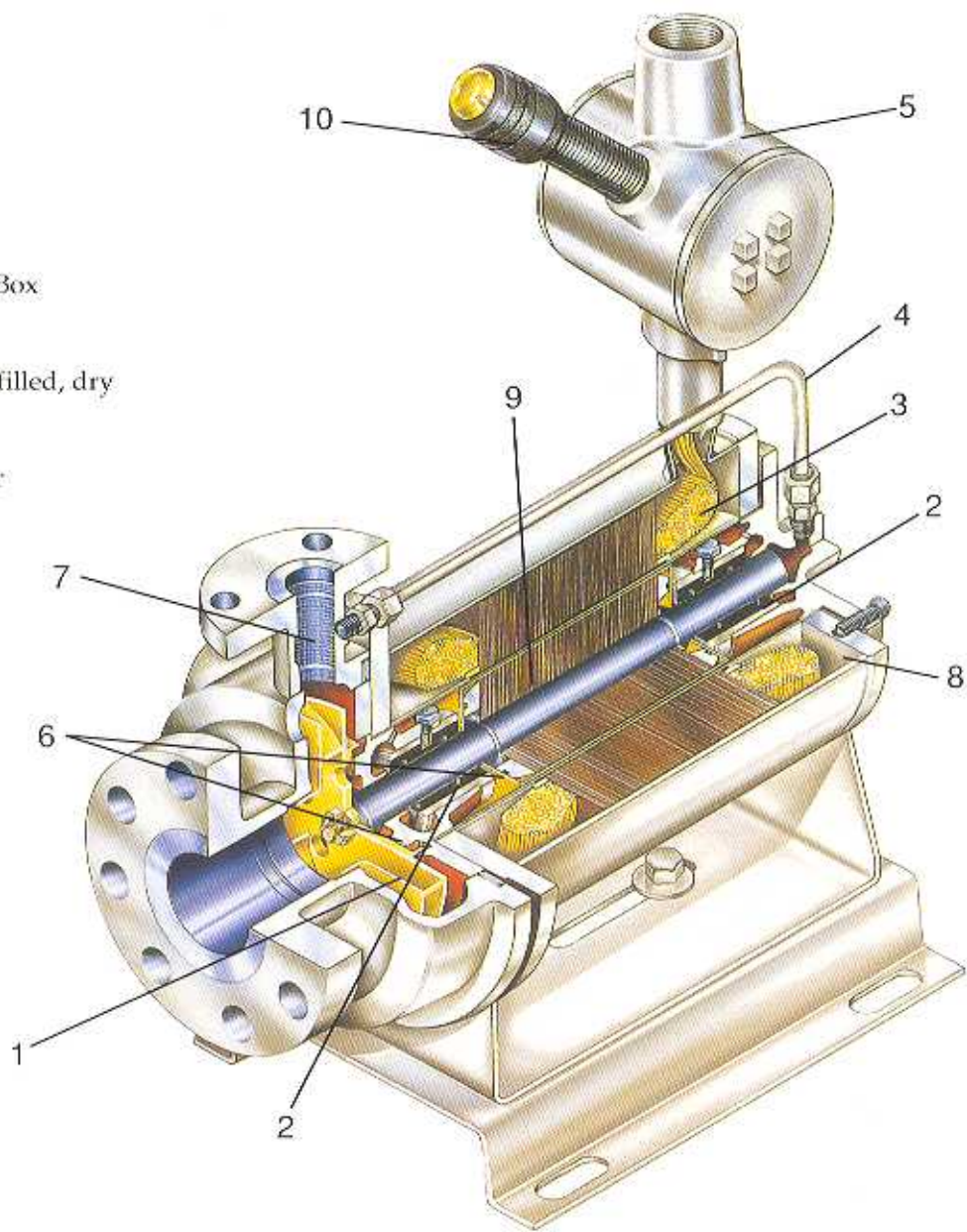


CHEMPUMP CANNED MOTOR PUMPS

1. Impeller
2. Bearings
3. Motor Windings
4. Circulation Tube
5. Sealless Junction Box
6. Thrust Surfaces
7. Circulation Filter
8. Stator Cavity (oil-filled, dry or solid-filled)
9. Rotor
10. Rotation Indicator



OPERATION

The G SERIES pump has only one moving part—a combined rotor and impeller assembly, which is driven by an induction motor.

A small portion of the pumped fluid is allowed to circulate through the motor section, cooling the motor and lubricating and cooling the bearings. The circulating fluid passes through a self-cleaning filter (fitted in the discharge neck of the pump casing) through the circulation tube to the rear of the pump. It then moves into the rotor

cavity (where it is isolated from the motor windings by a corrosion-resistant, non-magnetic alloy liner), across the bearings, and back into the main flow.

The discharge filter contributes to extended motor and bearing life by keeping the circulating fluid free of damaging particles. Because this filter is open at the top and bottom, it is constantly washed by the discharge flow and does not require periodic inspection.