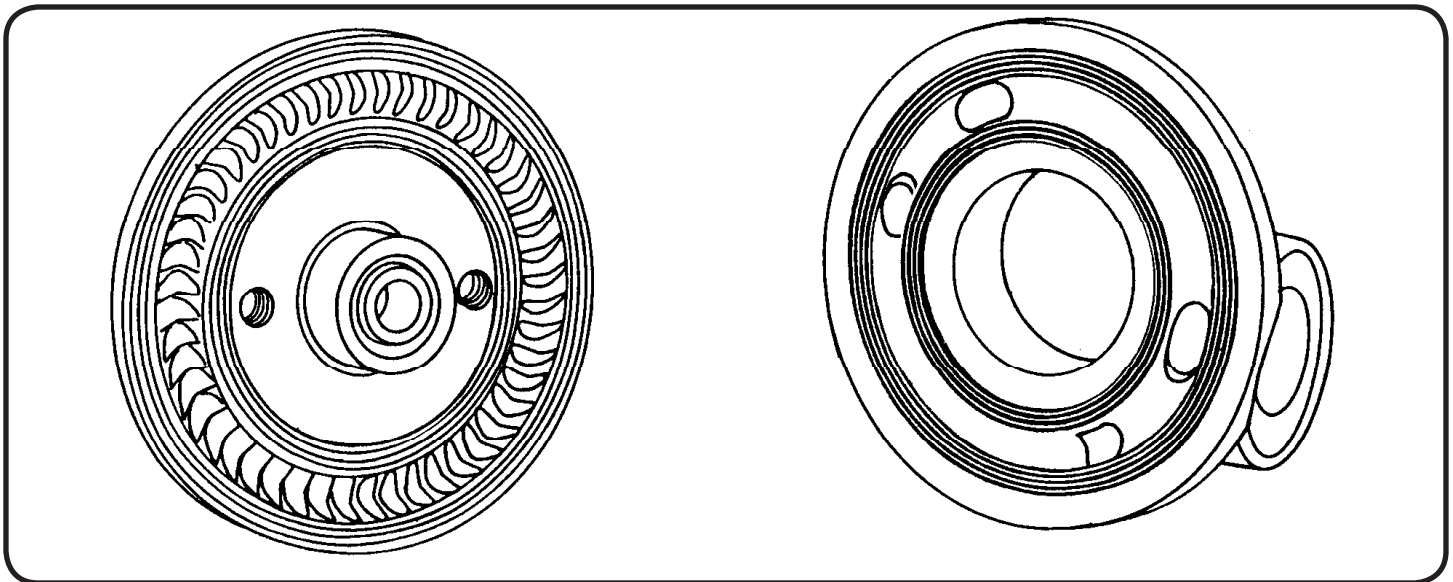


Burks Turbine Pumps

BURKS Turbine Pumps are unique in design, and different from all other regenerative turbine pumps. An integral part of their unique design is the Life-Lok® feature that provides a way to externally adjust the clearance between the impeller and raceway. BURKS is the only regenerative turbine pump that has this feature. This adjustment is used for precise setting of pump performance during production testing. Life-Lok® also makes the BURKS Turbine Pump field-adjustable. Because of the low flow/high head characteristics of the regenerative turbine, the pump pressure may be adjusted when necessary to match critical system requirements without appreciably changing the flow rate. Life-Lok® also allows pump performance to be restored to “like new” after years of service, greatly extending pump life.



Clearance between the impeller and raceway is pre-set at the factory on production test. The pump starts under virtually no load, the impeller takes up its load gradually as the motor comes up to speed. Water enters the pump through a suction port in the raceway and is directed to the rotating impeller by means of channels in the raceway. The water is picked up by the blades of the rotating impeller and is literally pushed in a spiraling motion through the raceway channel. Each impeller blade imparts additional energy to the water as it is propelled to the raceway cut-off. The energized fluid is then discharged through the raceway by means of a cut-off or water block which is built into the raceway. The discharge is directed into a built-in vortex pocket in the raceway which separates air from the fluid being pumped.

