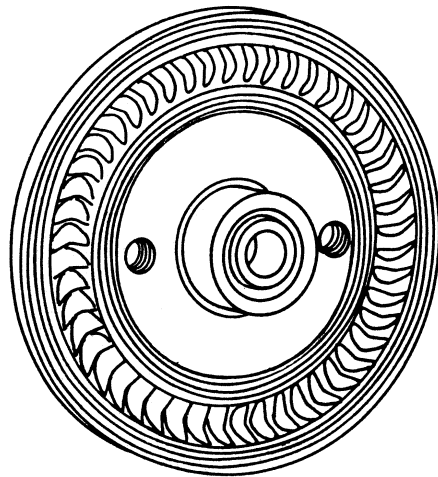
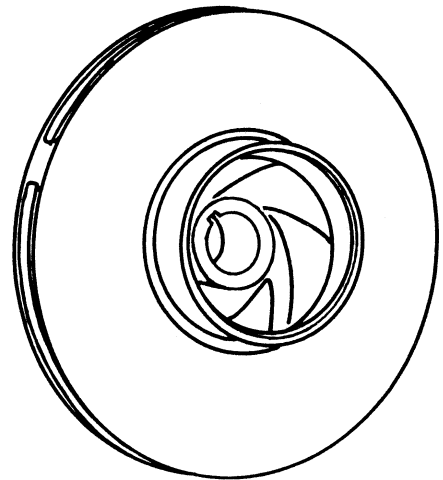




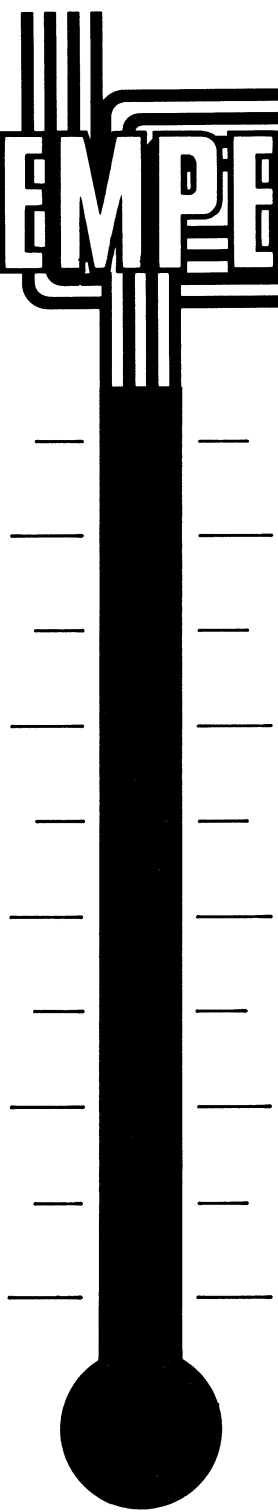
burks
HIGH TEMPERATURE
pumps®



TURBINE PUMPS



CENTRIFUGAL PUMPS



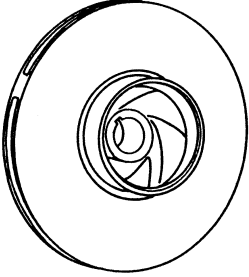
**FOR TEMPERATURES
 TO 500°F (260°C)**

SECTION	10
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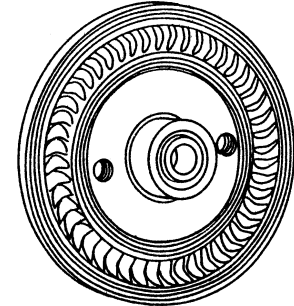


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.....TOP PUMP PERFORMANCE AT FLUID TEMPERATURES TO 500°F (260°C)



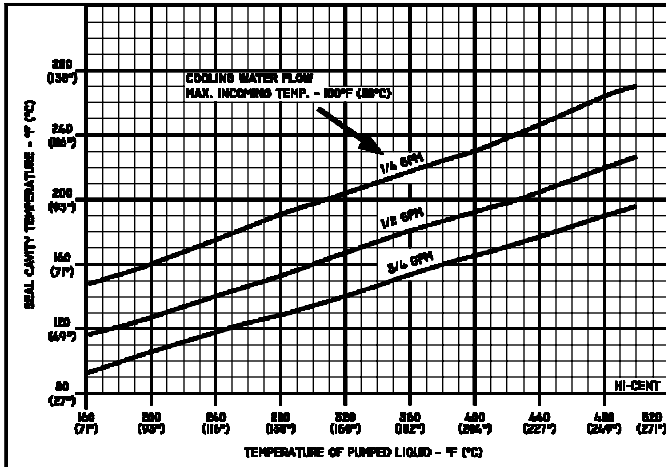
BURKS Quality and Performance....with a patented, time proven, dependable option for high temperature applications.



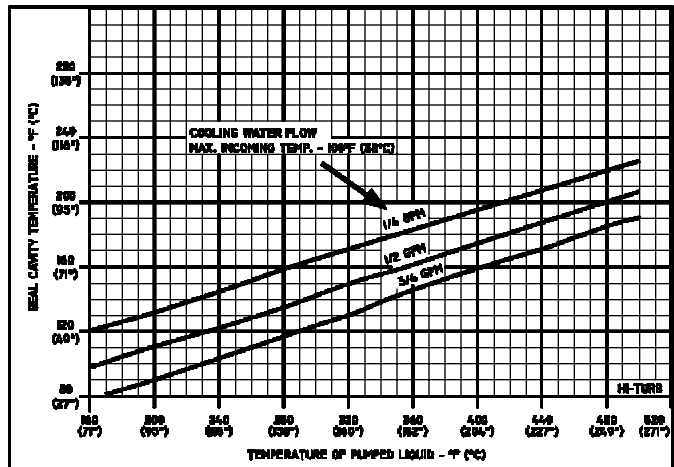
COOLING CURVES

Cooling curves indicate the flow of cooling liquid necessary to obtain desired seal temperatures at any given temperature of fluid to be pumped, (Curves are based on water as cooling media.)

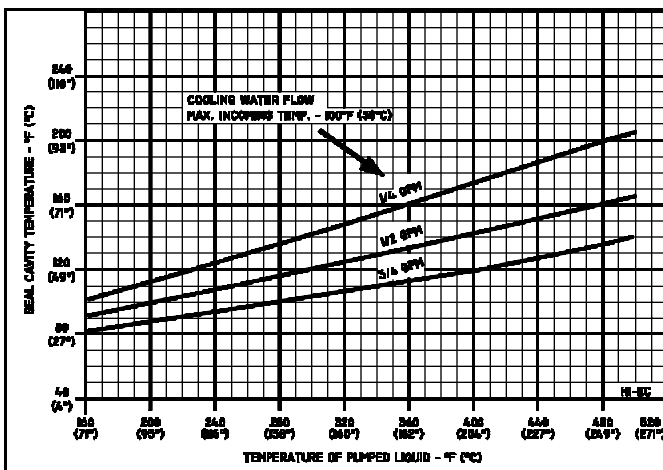
CENTRIFUGALS



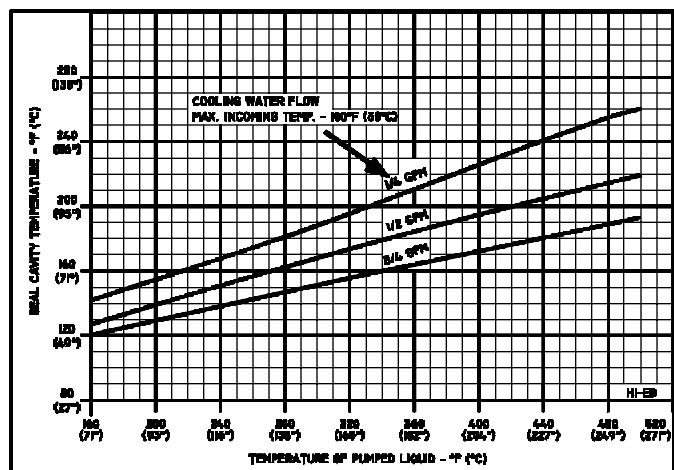
TURBINES (Except EC & ED Series)



EC SERIES TURBINES



ED SERIES TURBINES



PUMPS & SYSTEMS

A Crane Co. Company

BURKS HIGH TEMPERATURE PUMPS WITH "MJ" JACKETED SEAL OPTION

The BURKS jacketed seal is a unique, field proven design for handling liquids at temperatures of 200°F (93°C) to 500°F (260°C). It employs a Viton-fitted rotary face-type shaft seal with carbon face and Ni-Resist stationary seal. This simplified design eliminates the need for complicated jacketing arrangements and expensive exotic shaft seals.

CUTAWAY VIEWS

HOW THEY WORK...

Exchange of liquid between the seal cavity and the pump casing is restricted by a throttle bushing (A) on all models except the EC/ED Series turbine pumps. The throttle bushing also serves as a cooling jacket (B). On centrifugal pump models this cooling jacket surrounds the seal cavity (C).

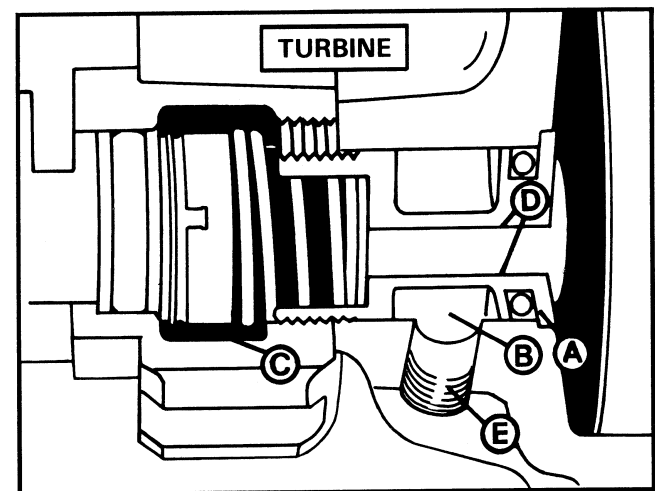
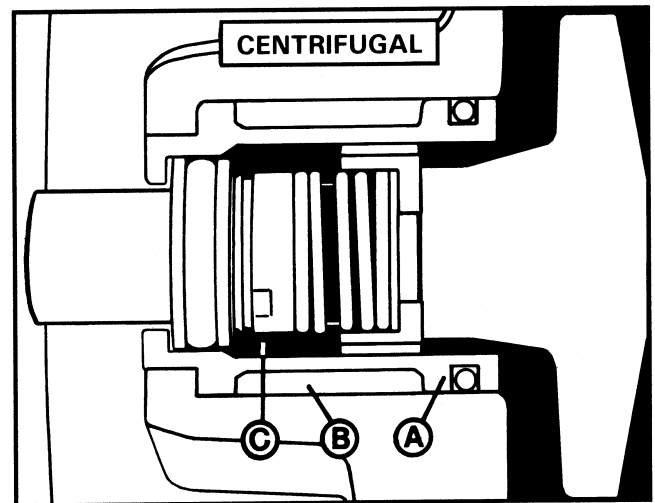
Turbine pump models use the patented "Film Cooling Principle" design. The cooling jacket surrounds the gap between the throttle bushing and shaft spacer sleeve (D), through which a thin film of the pumped fluid passes on its way to the seal cavity.

EC/ED Series turbine pumps employ an optional "MJ" Mechanical Seal Housing which contains the seal cavity surrounded by a cooling jacket. A shaft spacer sleeve restricts the exchange of liquid between the pump casing and the seal cavity.

Cooling liquid from an external source is allowed to flow into and out of the cooling jacket through tapped holes (E) provided for that purpose. The flow of cooling liquid through the jacket dissipates heat transmitted through its walls, thereby cooling the liquid in, or on its way to the seal cavity. Less than one gallon per minute flow through the cooling jacket will usually keep liquid in the seal cavity below 225°F (107°C), resulting in greatly extended seal life.

COOLING LIQUID SUPPLY

Cooling liquid may be piped into either side of the cooling jacket and out of the opposite side. The cooling jacket may be pressurized to a maximum 60 PSIG (414kPa). Note: External water or oil has to be below 100°F (11.7°C).



BURKS Pumps Available with "MJ" Jacketed Seal Option
 All Turbine pumps except CR Series
 All G & GN Series centrifugal pumps except sizes 7-2¹/₂,
 9-1¹/₂, 9-2 and 9-2¹/₂.