

# Operating Conditions

Capacity (rated/normal) : 585.0 USgpm / -  
 Water capacity (CQ=1.00) : -  
 Total developed head : 410.00 ft  
 Water head (CH=1.00) : -  
 NPSHa/NPSHa less margin : 25.0 ft / -  
 Maximum suction pressure : 4.9 psig

## Liquid

Liquid type : Other  
 Liquid description : Produced Water  
 Temperature : 110 °F  
 Density / Specific gravity : - / 1.020  
 Solid Size - Actual / Limit : 0.0000 in / 0.6880 in  
 Viscosity / Vapor pressure : 0.83 cP / 0.26 psia

# Materials / Specification

Material column code : CD4  
 Pump specification : ANSI B73.1

## Other Requirements

Hydraulic selection : No specification  
 Construction : No specification  
 Test tolerance : ANSI/HI 14.6 Grade 2B  
 Driver Sizing : Max Power(MCSF to EOC) not using SF  
 Seal configuration : Single Seal

## Performance

Hydraulic power : 61.8 hp  
 Pump speed : 3,550 rpm  
 Pump overall efficiency (CE=1.00) : 67.5 %  
 NPSH required (NPSH3) : 12.0 ft  
 Rated power : 91.5 hp  
 Maximum power : 122 hp  
 Driver power : 125 hp / 93.2 kW  
 Casing working pressure : 192.3 psig  
 (based on shut off @ cut dia/rated SG)  
 Maximum allowable : 282.5 psig  
 Hydrostatic test pressure : 428.0 psig  
 Estimated rated seal chamber pressure : -

Impeller diameter  
 Rated : 10.19 in  
 Maximum : 11.00 in  
 Minimum : 9.00 in  
 Suction specific speed : 9,890 (US units)  
 Minimum continuous flow : 332.7 USgpm  
 Maximum head at rated diameter : 424.49 ft  
 Flow at BEP : 799.3 USgpm  
 Flow as % of BEP : 73.2 %  
 Efficiency at normal flow : -  
 Impeller diameter ratio (rated/max) : 92.6 %  
 Head rise to shut off : 3.5 %  
 Total head ratio (rated/max) : 83.6 %

CURVES ARE APPROXIMATE. PUMP IS GUARANTEED FOR ONE SET OF CONDITIONS: CAPACITY, HEAD, AND EFFICIENCY.  
 MCSF PROVIDES MECHANICAL PROTECTION ONLY. MINIMUM THERMAL FLOW MUST BE CALCULATED FOR THE SPECIFIC FLUID AND OPERATING CONDITIONS.


