

GENERAL DATA

Function: For Nitric Acid (3M) Transfer

Operation: Continuous

OPERATING CONDITIONS

Service Fluid : Nitric Acid

Type of pump: Centrifugal → End Suction Top Discharge

Pumping Temp. Normal 20-40°C Specific gravity at Temp. Normal 1080 Kg/m³Kinematic Viscosity at: 33 °C 0.66 X 10⁻⁶ m²/s Vapor Pressure : 0.0042 MPa

Maximum Operating Pressure: 1 bar

Total Head Loss: { Suction :
Discharge } 2 mNominal output at pumping Temperature : 2 m³/hr

Total Manometric Head : 4 bar (minimum)

PUMP Motor

Voltage: 400 V Cycles: 50 Hz Phases: 3 phase

PUMP CONSTRUCTION FEATURES

Pump: Horizontal Centrifugal pump

Construction : According to ISO 2858

Material of the parts in contact with the liquid

Casing Bottom or Column : SS 304L Wearing ring : SS 304L treated

Impeller : SS 304L

Shaft : SS 304L Shaft liner : SS 304L

Counter Flange or Connection : SS 316L

Packing : Double Mechanical Seal Bearing : Rollers and Ball with Oil

Suction Connecting Piping : DN 50 Sch. 40s Connection : Flange ASME B 16.5, 150lbs - RF

Discharge Connecting Piping : DN 40 Sch. 40s Connection : Flange ASME B 16.5, 150lbs - RF

Coupling : Semi Elastic with spacer Coupling sleeve shielding : Steel Sheet

Base Plate : Carbon Steel with drain rim Anchor Bolts : Carbon Steel

Quantities Required : 04 Nos.**PUMP SPARE PARTS**

Shaft, impeller, pump bearings for 5 years