



ENGINEERING DIVISION

ITEM NO. 450-02-20274

CENTRIFUGAL PUMP DATA SHEET

A.R. NO. 80-701

JOB NO. 15-2-2

Process BDP P.O. No. Req. No.
Unit Main Process (02) Originator JWC Date 8-11-83
Service Centrifuge Cleaning Solution Recir. Revised By Rev. No. Date
Pump Type In-line Centrifugal (1)

OPERATING CONDITIONS

Liquid Weak Caustic/Water Solution
40 GPM at 88 Ft. Head Differential
60 GPM at 80 Ft. Head Differential
NPSH 50 Ft. Max. Allowable at 40 GPM
Shut Off, Ft. Head 94 P.T. °F, °C, Opr. 45 Max. 85
Disch. Press, PSIA 51 Sp. Gr. at P.T. 1.0
Suct. Press, PSIA 22 Viscosity at P.T., CPS 1
Vapor Press at P.T. PSIA

CONSTRUCTION

Case Split: Horizontal XXXXXXXX
Support: Caster XXXXXXXX
Vent: XXXX No. Size Drain: Yes, XXXX Size 3/8"
Mech. seal flush tap: 1/4"

Nozzles	Size	Rating	Facing	Position
Suction	2"	150#	Flat	In-line
Discharge	1-1/2"	150#	Flat	In-line

Impeller Diameter, Des. 4-1/2" Max. 6-1/16" Type Open.Mfg's Bearing No.: Radial Thrust Coupling: (2) Packing: Type No. Rings

Lantern Ring with Oil, Grease, Water Seal.

Mechanical Seal Type 8 Type 02F5110101(316SS)Rotating Face Mat'l Carbon grade, Stat. Face Mat'l 98% ceramicOther Wetted Parts Norde 1/316 SSBearing Lubrication: Oil, Grease for life

MATERIALS

Casing 316SS Sleeve
Impeller 316SS Wear Rings
Shaft 316SS Stuffing Box 316SS
Inner Case Parts 316SS

DRIVER

Motor Turbine

Item No. Mtd. By
Hp 3 RPM 3500

R and H Spec. No. 22-741Control Button Mounted at Pump ☒ & Panel Board ☐

PERFORMANCE

Proposal Curve No.
No. Stages
Design Eff. BHP
Max. BHP Design Impeller*
Max. Head Design Impeller, Ft.
Max. NPSH Req'd. - Ft.
Min. Continuous GPM
Rotation Facing Coupling End
Water Cooling
Bearings
Stuffing Box (3)
Gland
Total Water Req'd., GPM
Flushing
Aux. Piping

Shop Tests	Req'd.	Witnessed
Running		
NPSH		
Hydrostatic, PSIG		

Max. Allow WP PSIG at °F
Weights: Pump Base

Motor Turbine

MANUFACTURERS DATA

Mfg.
Impeller Diameter
Test Curve No.
Outline Dwg. No.
Pump Sect. Dwg. No.
Seal Dwg. No.
Pump Serial No.
Pump Size Type

* Motor brake horsepower shall not exceed 90% of nameplate horsepower for impeller design at any point on the curve.

REMARKS: (1) Vendor - Goulds 3996ST 1 1/2 x 2-6
(2) Falk Steelflex
(3) Stuffing box: Crane type 24-SL with ext. flush conn. for water, vent tap, throat bush.