



ENGINEERING DIVISION

ITEM NO. 450-03-20416

CENTRIFUGAL PUMP DATA SHEET

A.R. NO. 80-701

JOB NO. 15-2-2

Process RDP
Unit Packaging (03)
Service Disposal Tank Transfer
Pump Type: ☐ Horizontal ☐ Vertical
☒ Inline ☐ Turbine ☐ Sump
Pump Mfr. Goulds Pumps, Inc.

P. O. No. _____ Req. No. _____
Originator JSB Date 11-26-80
Revised By JSB Rev. No. 1 Date 12/18/80
Size & Type 3996ST, 1 1/2x2-6 No. Req. 1

OPERATING CONDITIONS

Liquid Water
40 GPM at 22.5 Ft. Hd. Differential (Grit Sump)
_____ GPM at _____ Ft. Hd. Differential
NPSH 33.6 Ft. Available at 40 GPM
Shut Off. Ft. Head 29 , P.T. °C Opr. 30 Max. 50
Disch. Press, PSIA 24.9 , Sp. Gr. at P.T. 1.0
Suct. Press, PSIA 15.2 , Viscosity at P.T. CPS 1
Vapor Press. at P.T. PSIA 0.70

CONSTRUCTION

Case Split: Horizontal, ~~XXXXXX~~
Support: ~~XXXXXX~~, ~~XXXXXX~~, Pipeline
Vent: ~~Yes~~ No, Size _____ Drain: Yes, No, Size 3/8"
Mech. Seal Flush Tap Size 1/4"

Nozzles	Size	Rating	Facing	Position
Suction	2"	150 lbs.	Flat	Inline
Discharge	1 1/2"	150 lbs.	Flat	Inline

Impeller Type Open
Diameter: Design 5" Max. 6 1/16"
Shaft Sleeve: ~~XXXX~~, No. _____
Coupling Type Falk Steelflex
Thrust/~~XXXX~~ Bearing Lube: ~~XXXX~~ Greased for life
Seal Bypass Tap: Size 1/4"
Stuffing Box Drain: Size 1/2"
a) Flush Gland

MATERIALS

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

SHAFT SEALING

Mechanical Seal Type Crane Type 8 028F5, 10101 (316SS)
Rotating Face Material Carbon (Grade 51)
Stat. Face Material 98% Ceramic
Other Wetted Parts Nordel / 316SS
Packing Type _____ Size & No. Rings _____
Lantern Ring Material _____ Lube _____
Stuffing Box Arrangements:
☐ External Flush Conn. ☐ Throat Bush.
☐ Suction Flush Loop. ☐ Cyclone Sep.
☒ Discharge Flush Loop ☐ Cooler

PERFORMANCE (By Vendor)

Proposal Curve No. CDS 2413
No. Stages 1 Design Eff. 42% BHP 0.54
For Design Impeller:
Max. BHP 0.71 Max. Head-Ft. 29
Max. Req'd. NPSH-Ft. _____ Min. Continuous GPM _____
Rotation Facing Coupling End CW
Water Cooling: No
Bearings _____ GPM
Stuffing Box _____ GPM
Gland _____ GPM
Max. Allow WP _____ PSIG at °C _____
Weights: Pump _____ Base _____
Motor, ~~XXXXXX~~

DRIVER

MOTOR Purchased By Vendor
Item No. _____ Mtd. By Vendor
HP 1 RPM 1750
R and H Spec. No. 22-741
Control Button Mounted at Pump ☒ & Panel Board ☐
~~XXXXXXXXXXXXXXXXXXXX~~
Guard for Drive - Std. No. 99-056
Motor to be high efficiency type.

TURBINE Purchased By _____
Item No. _____ Mtd. By _____
HP _____ RPM _____
Mfr. & Type _____
Inlet Steam, PSIG _____ Temp F. _____
Exhaust _____
Steam Rate, FL _____ LB/BHP/HR
Bearings _____ Lube _____

Nozzles	Size	ASA Rating	Facing	Position
Inlet				
Exhaust				

*Motor Brake Horsepower Shall Not Exceed 90% of Nameplate Horsepower For Impeller Design At Any Point On The Curve.

REMARKS: (a) Vendor to provide vent on flush gland.
(b) Vendor to provide taps for discharge flush loop.
(c) Hydrostatic test to manufacturer's standard.

MASTER COPY



GOULDS PUMPS, INC.

SENECA FALLS NEW YORK 13148

DUNS 222-5100

PAGE 1 OF 2
FACTORY ORDER 718072
INVOICE NO.

TOMER'S P15-11049
SER NO. 11-24-80 TA
DATE
G. P. ORDER NUMBER 718072

BILL TO
ROHM & HAAS BAYPORT, INC.
PURCHASING DEPT., N.A.
BRISTOL, PENNSYLVANIA 19007

DESTINATION & ROUTING LATER

SHIP TO

MARK VIA

P15-11049

☐ COLLECT ☐ PREPAY/

BRANCH ORDER NO. MAP02835
DATE ORDER REC'D IN ORDER DEPT. 12-1-80 DMC
DATE ENTERED 12-4-80

DATE SHIPPED

PART 8/M

TERRITORY

COMP. 8/M

TERMS: NET 30 DAYS

ON ASSEMBLY

☒ F.O.B. SENECA FALLS, N.Y. #2 SHOP

ORDER RECEIVED FROM:

SHIP WITH

718071-075

APPROX. SCHEDULED SHIPPING DATE

DOA

NO PARTIAL (IF CHECKED)

QTY. ORD.	P.O. ITEM NO.	SERIAL NO.	UNIT LIST PRICE	QTY. SHIPPED	TOTAL LIST PRICE	NET AMOUNT
	450-03-20416	718C072				
	EQUIP. NO.					
	SERVICE DISPOSAL TANK TRANSFER					

MODEL NO.	SIZE	ROT.	CONST.
39965T	1 1/2 X 2-6	RH	316SS
G.P.M.	T.N.H.	LIQUID	
40	22.5		
IMPELLER	5	DIA. DRAWING	76781
		PATT.	56206
IMPELLER		DIA. DRAWING	
		PATT.	
MOTOR	H.P.	R.P.M.	PHASE CYCLES
RELIANCE	1	1750	3 60
		VOLT	230/460
		FRAME	143TC
MOTOR ENCLOSURE			
TEFC SXT HI PERF 1.15/F PER MOTOR SPEC			
MOTOR BY	WILL NOT COME HERE		DATA
FACTORY	WILL COME HERE ☒ ON		M15892
ON FILE			

WITH FOLLOWING ADDITIONS, MODIFICATIONS AND/OR REQUIREMENTS.

1. MOTOR SUPPORT
2. WOODS COUPLING
3. CPLG. GUARD
4. SHAFT SLEEVE LESS
5. STAINLESS SHAFT 316
6. MECHANICAL SEAL LATER
7. FURNISH MONTHLY PROGRESS REPORTS
8. GREASE FOR LIFE

TENTATIVE SHIPPING DATE
THIS ORDER CANNOT BE SCHEDULED UNTIL THE DATA CHECKED BELOW HAS BEEN RECEIVED IN OUR FACTORY AND PROCESSED FOR MANUFACTURE DELAY WILL EXTEND SHIPMENT.

DRIVER PRINTS
V-BELT
COUPLING
EXTERNAL PIPING
MECHANICAL SEAL
ROTATION
IMPELLER DIAMETER

YOUR ORDER HAS BEEN ENTERED CONTINGENT UPON RECEIVING YOUR CONFIRMING P.O. YOUR CONFIRMING ORDER WILL BE REVIEWED UPON ITS RECEIPT AND YOU WILL BE ADVISED OF ANY CHANGES REQUIRED IN OUR ORDER. **ACKNOWLEDGMENT**

We thank you for your order which we have entered exactly as shown. Please check specification and if incorrect notify us immediately using our factory order number from the upper right hand corner. Your order has been accepted subject to our verification of price and subject to the terms and conditions on back hereof.

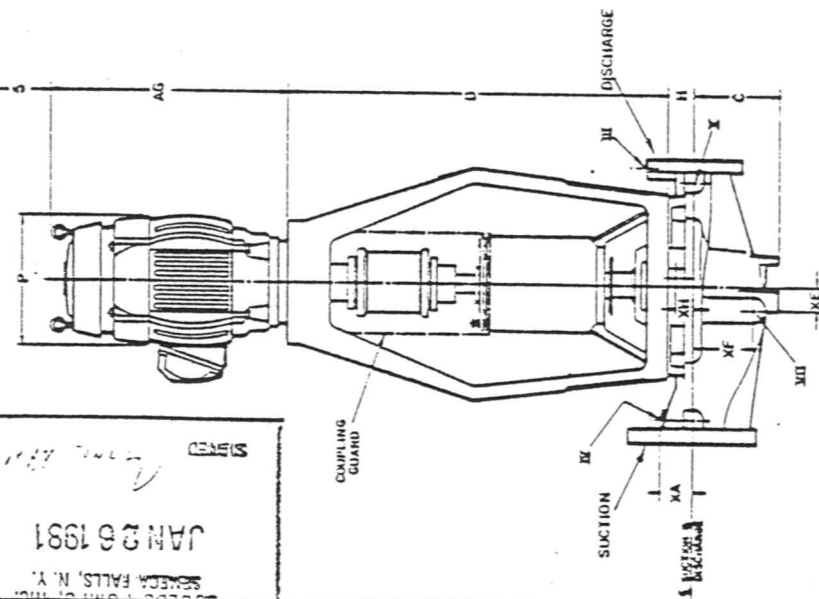
GOULDS PUMPS, INC.
ENGINEERED PRODUCTS DIVISION
SENECA FALLS, N.Y. 13148

FURNISH ONLY WHEN CHECKED	TESTS	WIT.	NON-WIT.	STANDARD ENGRG. DATA INCLUDES ☐ DIM PRINTS ☐ COS (CURVES) ☐ SECTIONALS (TYPICAL) ☐ SEAL OWS (IF APPLICABLE) ☐ MANUALS ☐ PRINTS ☐ REPRO
	PERFORMANCE			
	NPSH			
	NOISE			
	VIBRATION			
	HYDROSTATIC			

WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTIONS 6, 7, & 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED AND OF REGULATIONS AND ORDERS OF THE U.S. DEPT. OF LABOR ISSUED UNDER SEC. 14 THEREOF AND THE PRICES CHARGED ARE WITHIN APPLICABLE FEDERAL CEILING PRICE REGULATION AND ORDERS.

NO. OF INVOICES MAILING AND OTHER INSTRUCTIONS

DRIVER DATE HERE



DIMENSIONS DETERMINED BY PUMP

CHIEF OF POLICE

[illegible][illegible]STANDARD OR JACKETED

☐ A ☐ B ☐ C ☐ D ☐ E ☐ F ☐ G ☐ H ☐ I ☐ J ☐ K ☐ L ☐ M ☐ N ☐ O ☐ P ☐ Q ☐ R ☐ S ☐ T ☐ U ☐ V ☐ W ☐ X ☐ Y ☐ Z

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COINTEGRATING VARs IN THE CEEC AREA

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ROHM & HAAS COMPANY

67011-51d

ITEM NO: 450-03-20416

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ENCLOSURE

ERIC ED001 110 1964

ERIC ED001 132

FILE ROOM 110 1824

THE FOLLOWING

[illegible]

THE ECONOMIST

1304

CLIC COMMUNICATIONS

ELC 60041A 1924

FILE COPY NO. 1324

ERIC ED004 810 1324

THE COMMISSION

THE COMMERCIAL BANK

DATE 1-6-76

REV. DATE

GOULDS PUMPS, INC.
SENECA FALLS, NEW YORK 13148

CENTRIFUGAL PUMP CHARACTERISTICS

RPM 1750 CDS 2413

GOULDS SER. NO. 718C072

CUSTOMER ROHM & HAAS BAYPORT, INC.

P.O. NO. P15-11049

ITEM NO. 450-03-20416

SERVICE DISPOSAL TANK TRANSFER

MODEL 3996 ST

SIZE 1 1/2 x 2-6

IMP. DWG. 76777

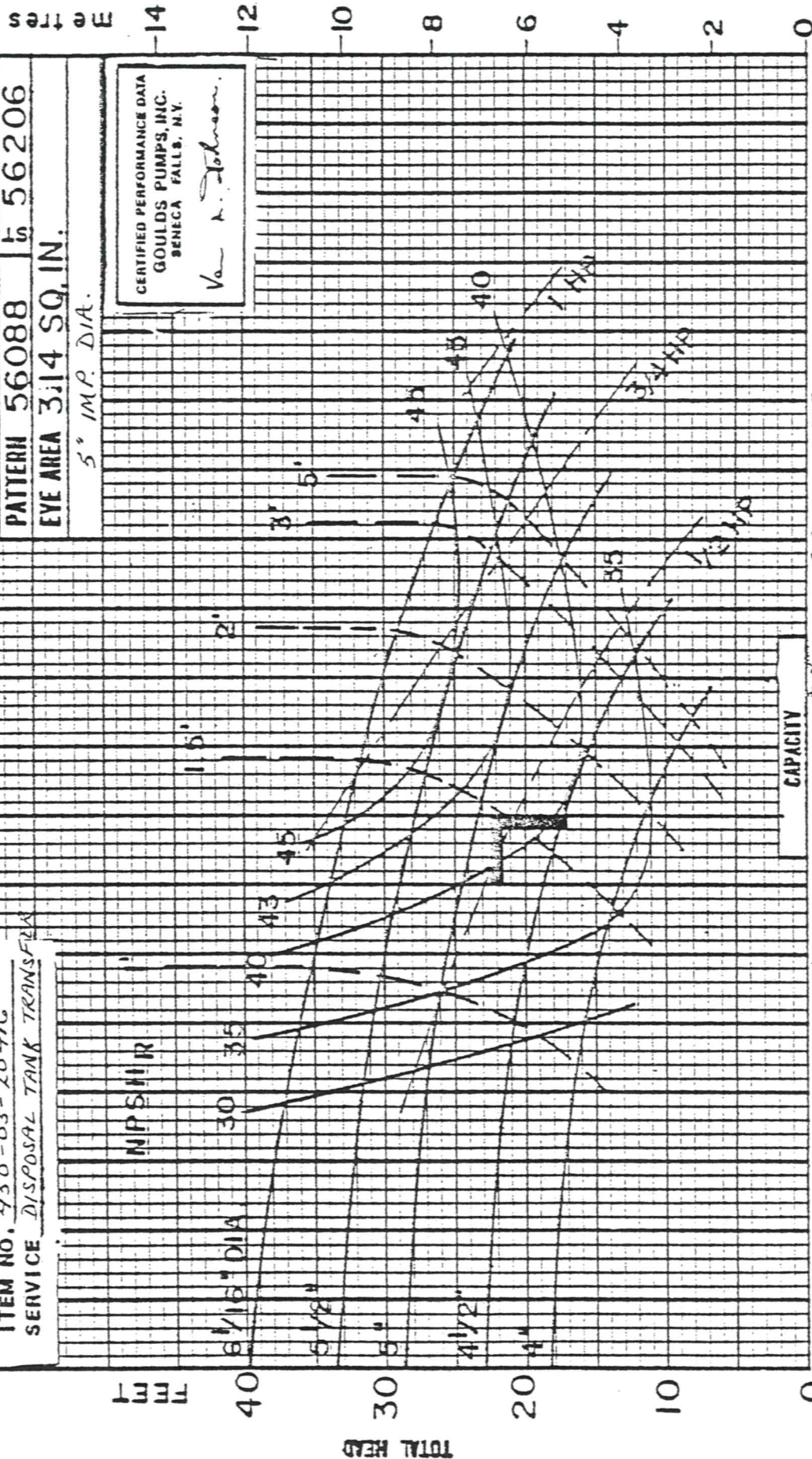
PATTERN 56088

EYE AREA 3.14 SQ. IN.

5" IMP. DIA.

CERTIFIED PERFORMANCE DATA
GOULDS PUMPS, INC.
SENECA FALLS, N.Y.

Van A. Johnson



70 GPM

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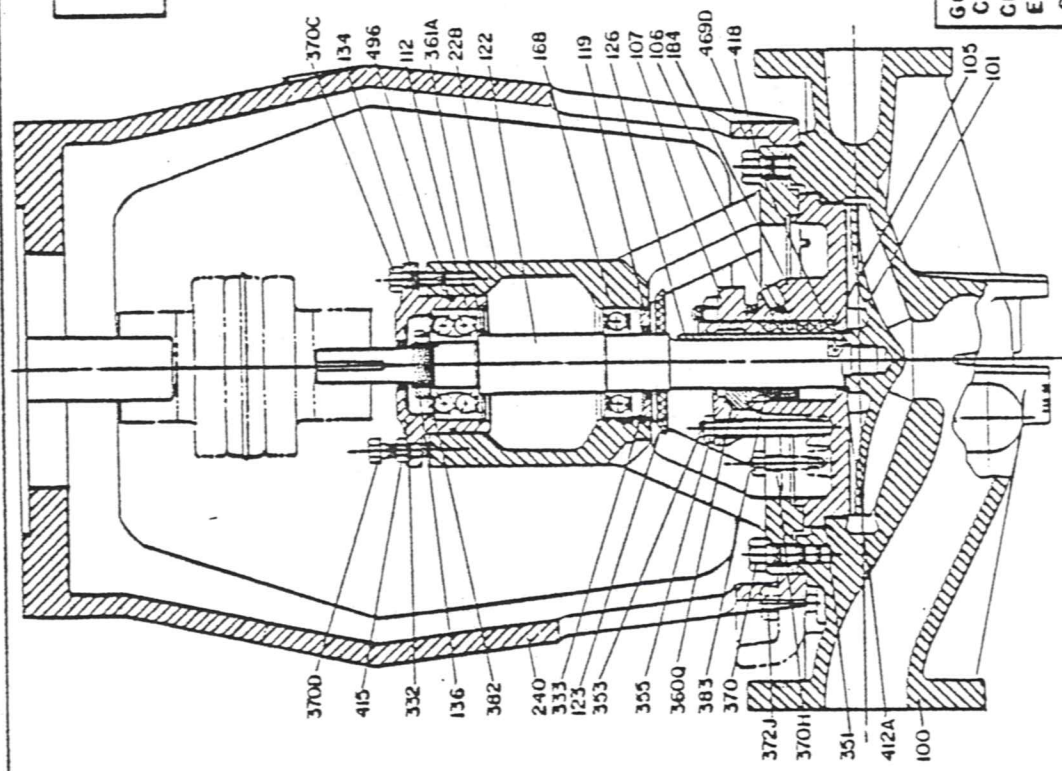
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MODEL 3996 ST
(GREASE) FOR LIFE

BILL OF MATERIAL

ITEM NO	NO REQD PER PUMP	PART NAME	MATERIAL
100	1	CASING	316SS
101	1	IMPELLER	316SS
105	1	IMPELLER-RING	TEFLON
106	1	STUFFING-BOX-PACKING	ASBESTOS
107	1	CLAND, SW	316SS
112	1	BALL BRG - OTBD	STEEL
119	1	BRG END COVER INBD	STEEL
122	1	SHAFT	316SS
123	1	DEFLECTOR	NYLON
134	1	SHAFT-SLEEVE	CAST IRON
136	1	BRG HOUSING	STEEL
136	1	BRG LK NUT	STEEL
168	1	BALL BRG INBD	316SS
184	1	STUFF BOX COVER	CAST IRON
228	1	FRAME SUPPORT	CAST IRON
240	1	MOTOR SUPPORT	STEEL
332	1	GREASE SEAL	STEEL
333	1	GREASE SEAL	STEEL
351	1	GASKET, CASE	ASBESTOS
353	2	GLAND STUD	304SS
355	2	HEX NUT GLAND STUD	316SS
360Q	1	GASKET, MECH SEAL	ASBESTOS
361A	1	RING RING, BRG HSG	STEEL
370	4	H CAP SCREW, FR - CASE	304SS
370C	6	H TAP BOLT, BRG HSG	STEEL
370H	3	H TAP BOLT, IMPLR ADJ	STEEL
370H	2	STUD - COVER TO ADPTR	STEEL
372J	1	MOTOR SPRT TO CASING	STEEL
382	1	BRG LK WASHER	STEEL
383	1	MECH SEAL	CRANE
412A	1	O-RING, IMPLR	TEFLON
415	3	JAH NUT - BRG HSG	STEEL
418	2	H CAP SCREW - FR. JACK	STEEL
469D	1	ROLL PIN, SFT SLV	410SS
496	1	O-RING, BRG HSG	BUNA-N

● MECH SEAL ONLY



GOULDS SERIAL NO. 718C072
CUSTOMER Kohn & Haas Bayport Inc.
CUSTOMER P. O. NO. 015-11049
EQUIP. OR ITEM NO. 450-03-20416
SERVICE DISPOSAL TANK TRANS.

GOULDS PUMPS, INC.
SILVERDALE, PA 19136
DATE 9-14-74
BY I.Q. VAJ
MODEL 3996 ST
SERIAL 718072 #2
REV 0

REV. (B) REVISED 4. REORAMM

C WAS AS (1) WAS (9) 9/1/70

CRANE PACKING
COMPANY9400 W. OAKTON ST.
MORTON GROVE, ILL.PRINT IS PROPERTY OF CRANE PACKING CO. SUBJECT TO RETURN
UPON DEMAND. TITLE TO SAME NEVER SOLD OR TRANSFERRED FOR
ANY REASON. ALL RIGHTS TO INVENTION RESERVED.

DR. T. FOLEY

CH. BIN 6-15-70

AP. P. P. P.

DATE: 5/5/70

SCALE: NONE

"JOHN CRANE" TYPE 811
1 3/8" D. SHAFT SEAL

FOR MODEL 3196-ST

GOULDS PUMPS, INCORPORATED
SENECA FALLS, NEW YORK

FOR DIMENSIONAL DWG. SEE CF-SP-36029

ITEM	PART NUMBER	MAT'L CODE	PART NAME	QUAN TITY	MATERIAL	REC. SPARE PARTS
1	**		SEAT	1	HIGH PURITY CERAMIC	X
2	1866	2	SEAT RING	1	CRANELAST	X
3	A89	1375	WASHER	1	CARBON	X
4	1820	25	O RING	1	CRANELAST	X
5	C9T	1375	RETAINER +	1	SS	
6	***		SPRING	12	SS	X
7	A9T	1375	DISC.	1	SS	
8	A9	1375	SNAP RING	1	SS	
9						
10	BY	CUST	GLEEVE			
11						
12						
13	8-32X1/4 LG. 1108-3204		SET SCREW	4	SS	
14	BY	CUST	GLAND PLATE		316 SS	
15	BY	CUST	GASKET		ASBESTOS	
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SEAL ASSY. NO. AWT 1375 231

SEAT ASSY. NO.

SPEC. NO.

+ SPECIAL PART.

CODE: 028 51 10 1

INSTRUCTIONS: ☐ NONE ☐ REQUIRED

**

D-1375-325 (CERAMIC)

D-1375-241 (MACHINED)

D-1375-252 (STELLITE)

D-1375-800 (TUNG. CARB)

842 (HAST 'B')

794 (HAST. "C")

585 (MONEL)

2077 (316 S.S.)

OPERATING CONDITIONS:

LIQUID

TEMP.

PRESS. SUCT

PRESS. DISCH.

SP. GR. 1.0

SPEED: 1750 R.P.M.

UNIT REFERENCE:

CUSTOMER P.O. # P15-11049
PROJECT # ROHM & HAAS BAYPORT, INC.

ITEM # 450-03-20416

EQUIPMENT #

PUMP SERIAL # 718C072

MODEL (3196 ST) - 3996

PUMP STUFFING BOX #

SHOP ORDER # 718072

B/P REFERENCE:

DWG. #90280-A DT D. 11/24/69 BY GOULDS PUMPS, INC.

DWG. NO. SP-CF-36029

REV. (C) RE
REFRASH 77-00671

PRINT IS PROPERTY OF CRANE PACKAGING CO. SUBJECT TO RETURN UPON DEMAND. TITLE TO SAME NEVER SOLD OR TRANSFERRED FOR ANY REASON. ALL RIGHTS TO INVENTION RESERVED.

CRANE PACKING

COMMITTEE

DAVID W. JACKSON ET.

MORTON GROVE, ILL.

DR. MINH

... 1000 ...

APPENDIX

DATE: 3/16/78

SCALE: NONE

FOR PARTS LIST SEE SP-CF-36029

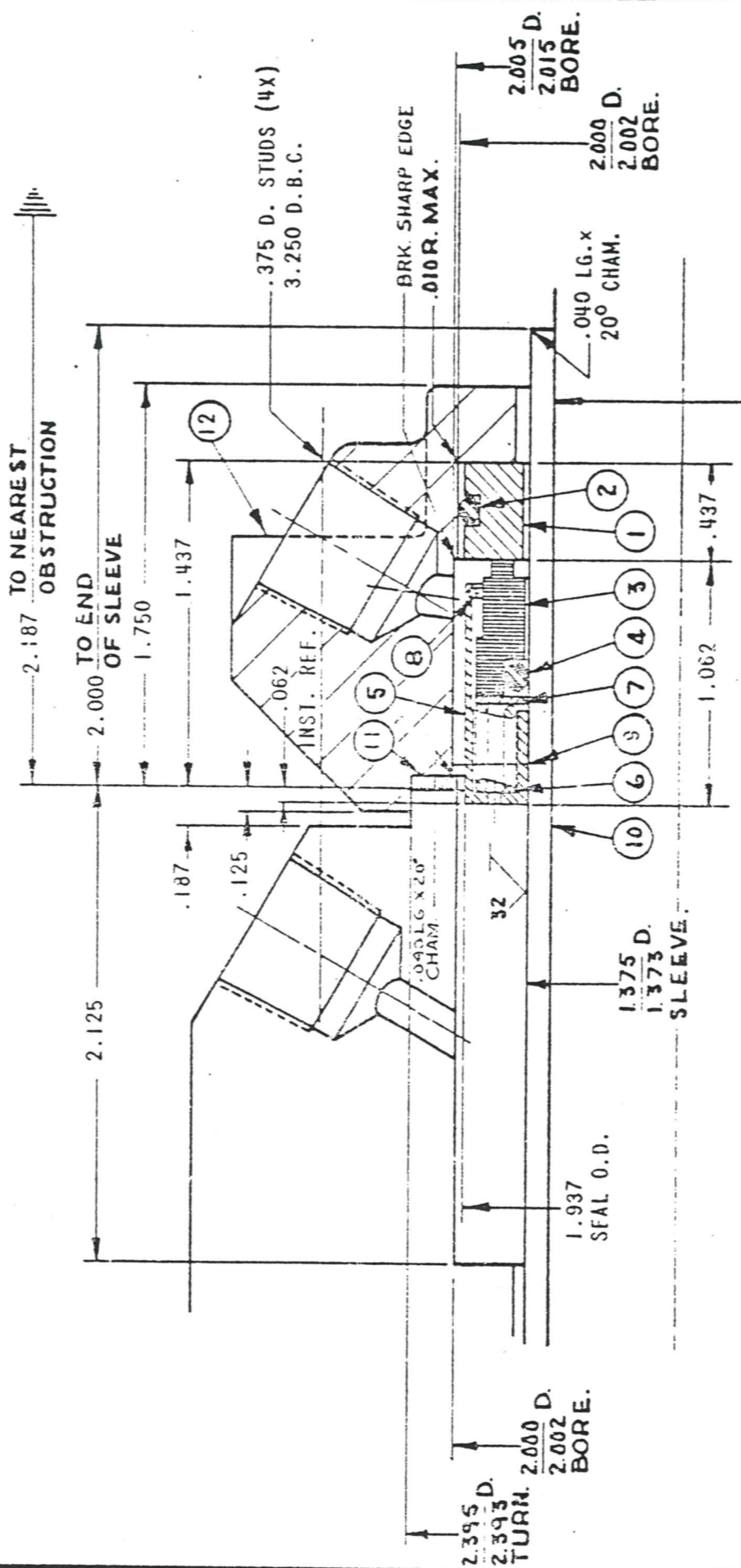
TYPE - 81T

1.375 D. SHAFT SEAL

FOR MODEL 3196-ST

COMPUTER PROGRAMS FOR

SENeca FALLS, NEW YORK



4. VENT GAS ENTRAPMENT BEFORE STARTUP.
3. MAINTAIN PRESSURE IN SEAL CAVITY ABOVE VAPOR POINT DURING OPERATION.
2. CLEAN SEAL FACES BEFORE FINAL ASSEMBLY.
1. LUBRICATE ITEMS # 2 & 4 BEFORE INSTALLING SEAL.

DWG. No. CF-SP-36029

RELIANCE

ELECTRIC COMPANY
MOTOR DIVISION, CLEVELAND, OHIO 44117, U.S.A.

DATA TRANSMITTAL
AND CERTIFICATION

SOLD TO:	CUSTOMER ORDER NO. M15892	DATE 12/04/80	REQ. NO.	S.O. NO. 20444954	REFER TO THIS NUMBER IN ALL CORRESPONDENCE	
	GOULDS-ENG PRODUCTS DIV 243 FALL SENECA FALLS N Y 13149					
SHIP TO:	SAME AS "SOLD TO" UNLESS SHOWN					
	GOULDS PUMPS INC. 243 FALL STREET SENECA FALLS, N.Y. 13149					
DATA SOURCE	TRANSMITTAL AND CERTIFICATION ISSUED BY: <u><i>Lytle</i></u> DATE <u>7/13/81</u> CK BY <u><i>P. V. Lushoff</i></u> DATE <u>7/13/81</u> MADISON PLANT STATE ROAD 107 MADISON, INDIANA 47250 DATE PRINTED: 01/23/81					
MOTOR OR GEN. DATA	ITEM 1-2	USED FOR CENTR PUMP			USERS PLANT	MOTOR OR GEN. D/S: 610301-30
	QTY. 3	FRAME FK 143TC	1	HP 1.15	SERV. FA P	R.P.M. 1730
	PH/ HZ/VOLTS-WINDING SEE BELOW		DUTY CONT	ENCLOSURE SXTF	AMB./INSL. 40 F	
	BEARINGS BALL		MOUNTING & METHOD OF DRIVE W6 /CPLO	RAILS OR BASE	MODEL NUMBER 876C8735M	
	ROTAT FROM OPP. DR. END CW		D-C FIELD EXCITATION		DOUBLE SHAFT EXTEN. /	
	REDUCER STYLE		CLASS	FRAME	RATIO	OUTPUT RPM
BRAKE DATA	BRAKE TYPE		SIZE	RATING FT/LB	DUTY	P.O.
	D-C MOTOR ARMATURE CURRENT: _____ AMPS FIELD CHARACTERISTICS PER CURVE: _____ F ₁ -F ₂ _____ MAX. AMPS _____ RPM F ₁₁ -F ₂₂ _____ MAX. AMPS _____ RPM F ₃ -F ₄ _____ MAX. AMPS _____ RPM					
RE-CER ATA	ADDITIONAL MOTOR OR GEN DATA: PHASE: 3 HERTZ: 60 VOLTS: 230/ 460 LD LOC - STD FR CONST R9					
	SPECIAL MARKS: QTY (1) FO#718072 (1) 718073 (1) 718074					
	GOULDS SER. NO. <u>718072</u> CUSTOMER <u>ROHM & HAAS, INC.</u> P.O. NO. <u>015-11049</u> ITEM NO. <u>450-03-2046</u> SERVICE <u>DISPOSAL TANK TRANSFER</u>					
	SPECIAL FEATURES: "HIGH PERFORMANCE" / DRIP COVER /					
DATA FOR CON-TROL	A-C MOTOR INFORMATION FOR SELECTION OF STARTER HEATERS: CODE: K LOCKED AMPS: _____ F.L. CURRENT: 3.0/1.5 AMPS.					
	CERTIFIED DRAWINGS & DATA: DATE: 02/13/81 MOD. NO: 1 D/S TO CUST ATTN JOANNE DATE: 02/13/81 MOD. NO: MOLL DATE: 02/13/81 MOD. NO: 1 D/S TO 24201					

REF 1

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

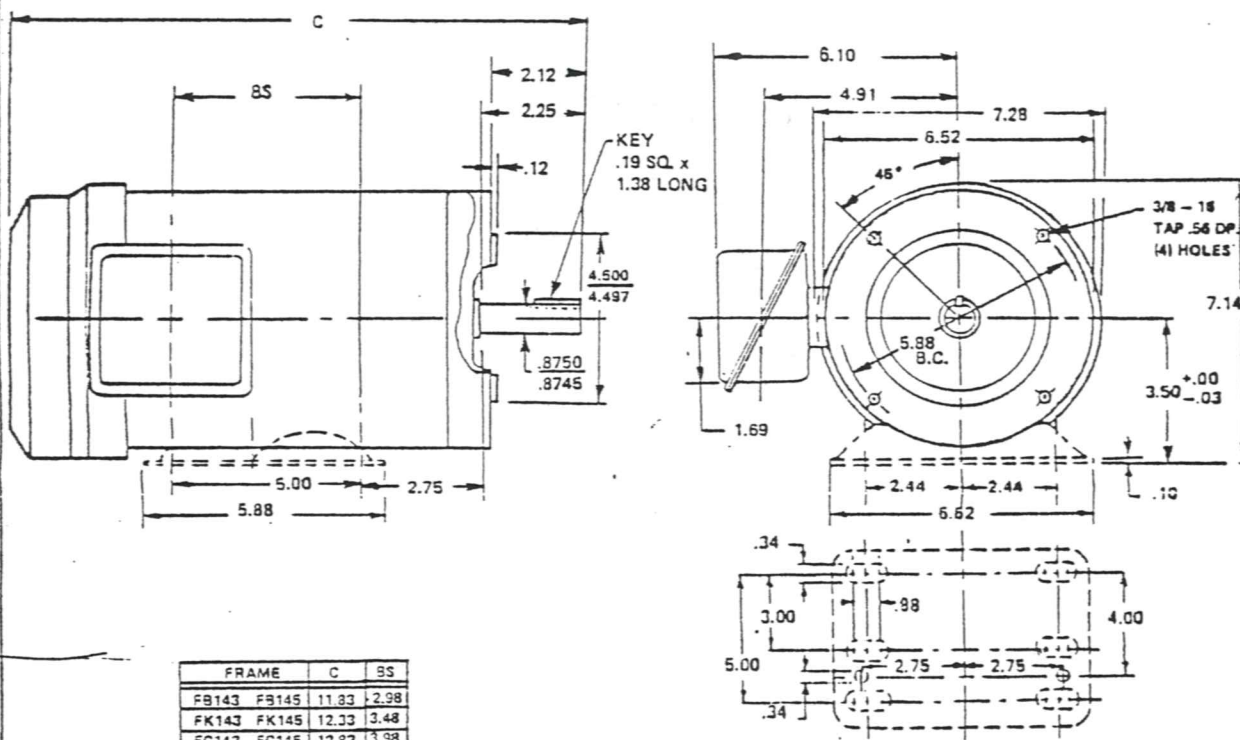
ENCLOSURE: TOTALLY ENCLOSED

SXT 6.3 BODY

COOLING: FAN-COOLED

MOUNTING: FOOT- ROUND BODY - NEMA "C" FACE

TYPE:P



GOULDS SER. NO. 7110092
 CUSTOMER Wynn & Hadd, Inc.
 P.O. NO. 015-11649
 ITEM NO. 40-03-2046
 SERVICE DISMANTLE TANK TRIGGER

FRAME-_____TYPE-_____CERTIFIED FOR-_____
 ORDER-_____ITEM-_____HP-_____RPM-_____PH-_____HZ-_____VOLTS-_____
 RELIANCE SALES ORDER-_____APPROVED BY-_____DATE-_____

**RELIANCE
ELECTRIC**
 CLEVELAND, OHIO 44117 U.S.A.

DR. BY Wynn & Hadd
 CX. BY Wynn & Hadd
 APP. BY Wynn & Hadd
 DATE 10-10-70

**DIMENSION
SHEET**

610301-30
 ISSUE DATE 10-10-70