



ENGINEERING DIVISION

ITEM NO. 450-04-20582/583

CENTRIFUGAL PUMP DATA SHEET.

A.S. NO. 80-701

JOB NO. 15-2-2

Process BDP
Unit Recovery Area (04)
Service Acetic Acid Column Bottoms
Pump Type: ☐ Horizontal ☐ Vertical
☒ Inline ☐ Turbine ☐ Sump
Pump Mfr. Goulds Pumps, Inc.

P. O. No. _____ Req. No. _____
Originator JSB Date 12/15/80
Revised By JSB Rev. No. 1 Date 4-27-81
Size & Type 3996ST 1 1/2x3-8 No. Req. 2

OPERATING CONDITIONS

Liquid Organic Solvent
125 GPM at 43 Ft. Hd. Differential
GPM at _____ Ft. Hd. Differential
NPSH 19.8 Ft. Available at 125 GPM
Shut Off. Ft. Head 61 P.T. °C Opr. 153 Max.
Disch. Press. PSIA 42.0 Sp. Gr. at P.T. 0.678
Suct. Press. PSIA 29.4 Viscosity at P.T. CPS 0.25
Vapor Press. at P.T. PSIA 23.5

CONSTRUCTION

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

Nozzles	Size	Rating	Facing	Position
Suction	3"	150 lbs.	FF	Inline
Discharge	1-1/2"	150 lbs.	FF	Inline

Impeller Type Open
Diameter: Design 7 1/4" Max. 8"
Shaft Sleeve: ~~Yes~~ No.
Coupling Type Falk Steelflex
Thrust/Bearing Lube: ~~XXX~~ Greased for life
Seal Bypass Tap: Size 1/4"
Stuffing Box Drain: Size 1/2"
a) Flush Gland

MATERIALS

Part	Material
Casing	316 SS
Impeller	316 SS
Shaft	316 SS
Inner Case Parts	316 SS

SHAFT SEALING Y.E. 10.1

Mechanical Seal Type Crane Type 8 5 51 8 (316 SS)
Rotating Face Material Carbon (Grade 51)
Stat. Face Material Silicon Carbide
Other Wetted Parts Kalrez 7 316 SS
Packing Type --- Size & No. Rings ---
Lantern Ring Material --- Lube: ---
Stuffing Box Arrangements: Crane Type 24-SL
b) ☒ External Flush Conn. ☒ Throat Bush.
☐ Suction Flush Loop. ☐ Cyclone Sep.
☐ Discharge Flush Loop ☐ Cooler

PERFORMANCE (By Vendor)

Proposal Curve No. CDS 2418
#B. Stages 1 Design Eff. 55% BHP 1.67
For Design Impeller:
Max. BHP 1.84 Max. Head-Ft. 61
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~~

Show Tests Req'd. Witnessed

Test	Req'd.	Witnessed
Running	NO	
NPSH	NO	
Hydrostatic, PSIG	c)	NO
Imp. Dyn. Bal.	NO	

DRIVER

MOTOR Purchased By Vendor
Item No. _____ Mtd. By Vendor
HP * 3 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.
*This horsepower is required for water runs.

TURBINE Purchased By _____
Item No. _____ Mtd. By _____
HP _____ RPM _____
Mfr. & Type _____
Inlet Steam, PSIG _____ Temp F. _____
Exhaust _____
Steam Rate, FL _____ LB/HP/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 tap on flush gland.
b) Organic solvent flush will be used.
c) Hydrostatically test to manufacturer's standard.

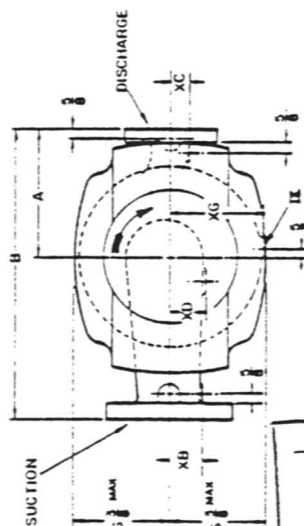


ENGINEERED PRODUCTS DIVISION

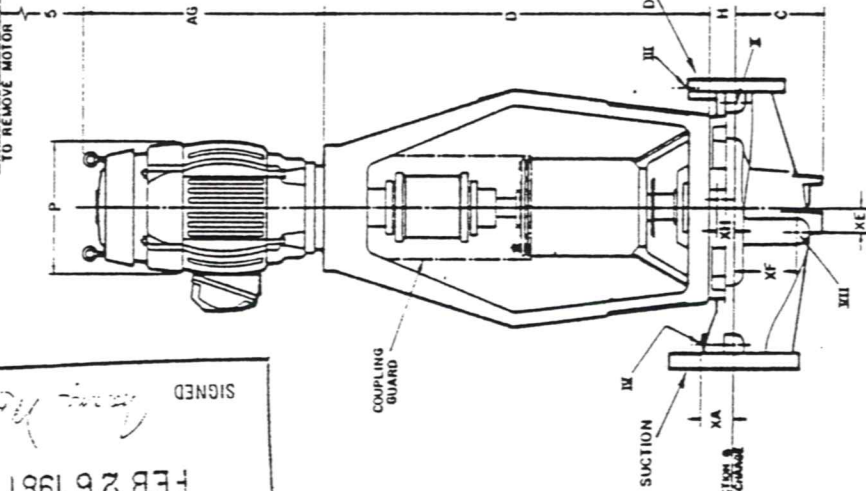
MODEL 3996 ST

IN-LINE PROCESS PUMP

RIGHT HAND
ROTATION



MINIMUM HEADROOM REQUIRED
TO REMOVE MOTOR



FEB 26 1981

Approved for Construction Purposes
Goulds Pumps, Inc.
Seneca Falls, N.Y.

DIMENSIONS DETERMINED BY PUMP

DISCH SIZE	SUCT SIZE	CASING CLASS	A	B	C	H	XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	WT
1-1/2	2	6	6 3/4	15	4 1/2	2 1/8	1 1/8	2 1/8	1 1/8	1 1/8	1 1/2	2 1/8	4 1/8	1 9/16	3/4	2 5/16	2 5/16	3 1/16	3 1/16	3 9/16	190
1-1/2	3	6	6 3/4	15	5 1/8	2 3/16	1 3/4	2 1/8	1 1/4	2 1/16	1 5/8	3 3/8	4 1/8	1 9/16	3/4	2 5/16	2 5/16	3 1/16	3 1/16	3 9/16	200
2	3	6	7 1/2	17	4 7/8	2 1/4	1 7/8	2 1/8	1 1/8	2 3/8	1 7/8	3 1/2	4 1/8	1 11/16	3/4	2 7/16	2 7/16	3 1/16	3 1/16	3 11/16	205
1-1/2	2	8	8	17	5 1/16	2 1/16	1 7/8	2 1/8	1 1/2	2 3/16	1 1/2	3 1/4	6 1/16	7/8	7/8	1 15/16	2 3/16	3 1/16	3 1/16	3 11/16	200
1-1/2	3	8	8 3/8	18 7/8	5 1/2	2 1/8	1 7/8	2 1/8	1 1/4	2 5/16	1 1/2	3 3/8	6 1/16	1 1/8	7/8	2 3/16	2 7/16	3 1/16	3 1/16	3 11/16	210

DIMENSIONS DETERMINED BY MOTOR

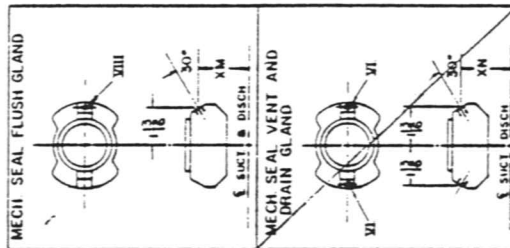
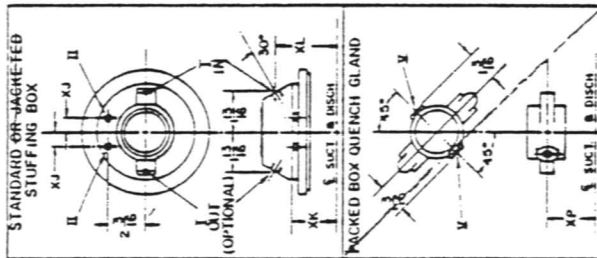
NEMA FRAME	6" CAS	8" CAS	AG	P	WT
143 TC	17-1/2	18-1/8	12	7	60
145 TC	17-1/2	18-1/8	13	7	65
182 TC	19-7/8	19-7/8	15	9	105
184 TC	19-7/8	19-7/8	16	9	105
213 TC	19-1/4	19-7/8	17	11	185
215 TC	19-1/4	19-7/8	18	11	185
254 TC	19-1/4	19-7/8	21	13	320
256 TC	19-1/4	19-7/8	25	13	320
284 TC	19-1/4	19-7/8	24	15	350
286 TC	19-1/4	19-7/8	25	15	440

FLANGE DIMENSIONS

NOM I.D.	OD	BC	THK	NO OF HOLES	SIZE OF HOLES
1-1/2	5	3-7/8	11/16	4	5/8
2	6	4-3/4	3/4	4	3/4
3	7-1/2	6	15/16	4	3/4
1-1/2	6-1/8	4-1/2	13/16	4	7/8
2	6-1/2	5	7/8	8	3/4
3	8-1/4	6-5/8	1-1/8	8	7/8

OPTIONS FURNISHED WHEN CHECKED

STUFFING BOX COVER	☒ STANDARD ☐ JACKETED
PACKING WITH QUENCH GLAND	☐ PACKING WITH QUENCH GLAND
MECHANICAL SEAL WITH FLUSH GLAND	☒ MECHANICAL SEAL WITH FLUSH GLAND
MECHANICAL SEAL WITH VENT AND DRAIN	☐ MECHANICAL SEAL WITH VENT AND DRAIN
MECHANICAL SEAL WITH PLAIN GLAND	☐ MECHANICAL SEAL WITH PLAIN GLAND
COUPLING GUARD	☒ BY GOULDS ☐ BY OTHERS



SIZE	QTY	PURPOSE	FURNISHED YES NO
I	1/4	1 LANTERN RING OR MECH SEAL FLUSH	X
II	1/4	2 STUFFING BOX JACKET CONNECTIONS	X
III	1/4	1 DISCHARGE GAGE CONNECTION	X
IV	1/4	1 SUCTION GAGE CONNECTION	X
V	1/4	2 QUENCH COHN FOR PACKED BOX	X
VI	1/4	1 VENT AND DRAIN FOR MECH SEAL	X
VII	1/4	1 CASING DRAIN	X
VIII	1/4	1 FLUSH COHN FOR MECH SEAL	X
IX	1/2	1 STUFFING BOX DRAIN	X
X	1/4	1 SEAL BYPASS CONNECTION	X

▲ MOTORS MAY BE SUPPLIED WITH "V"

DESIGNATION. THIS DESIGNATION DOES
NOT AFFECT DIMENSIONS OR MOUNTING.

NOTES:

DRAWING IS NOT TO SCALE.
ALL DIMENSIONS ARE IN INCHES.
WEIGHTS ARE APPROXIMATE

GOULDS PUMPS INC., SENECA FALLS, N. Y., U.S.A.

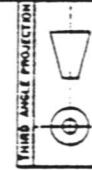
GOULDS SERIAL NO. 719CB06-1-2

CUSTOMER: ROHM & HAAS BAYPORT, INC.

CUSTOMER P.O. NO. P15-11049

ITEM NO. 450-04-20582/583

SERVICE: ACETIC ACID COLUMN BOTTOMS



Handwritten signature

ENG. FORM NO 1364
DATE: 6-20-80 KWE, DHM

DWG NO. 113-64

REV 1

DATE 1-5-76

REV. DATE



SENECA FALLS, NEW YORK B148

CENTRIFUGAL PUMP CHARACTERISTICS

GOULDS SER. NO. 719C866-1-2
 CUSTOMER ROHM & HAAS BAYPORT, INC.
 P.O. NO. PI5-11049
 ITEM NO. 450-04-20582/583
 SERVICE ACETIC ACID COLUMN BOTTOMS

	RPM	1750	CDS	2418
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00
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70	0.00	0.00	0.00	0.00
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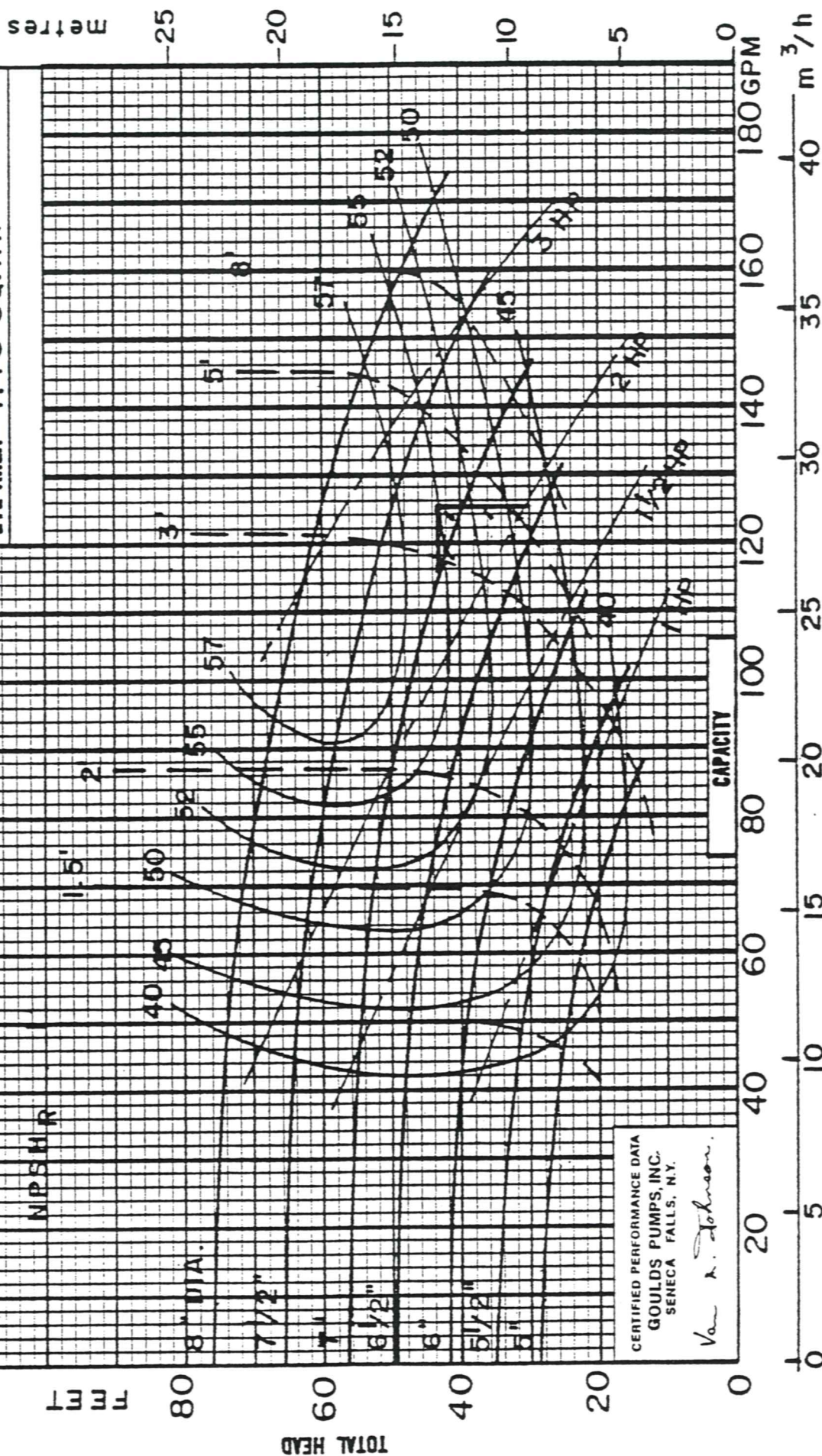
MODEL 3996 ST 7 1/4" IMP. DIA.

SIZE 1 1/2 x 3-8

IMP. DWG.	76780	76794
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PATTERN	56091	56209
ST	56209	56209

EYE AREA 4.43 SQ.IN.

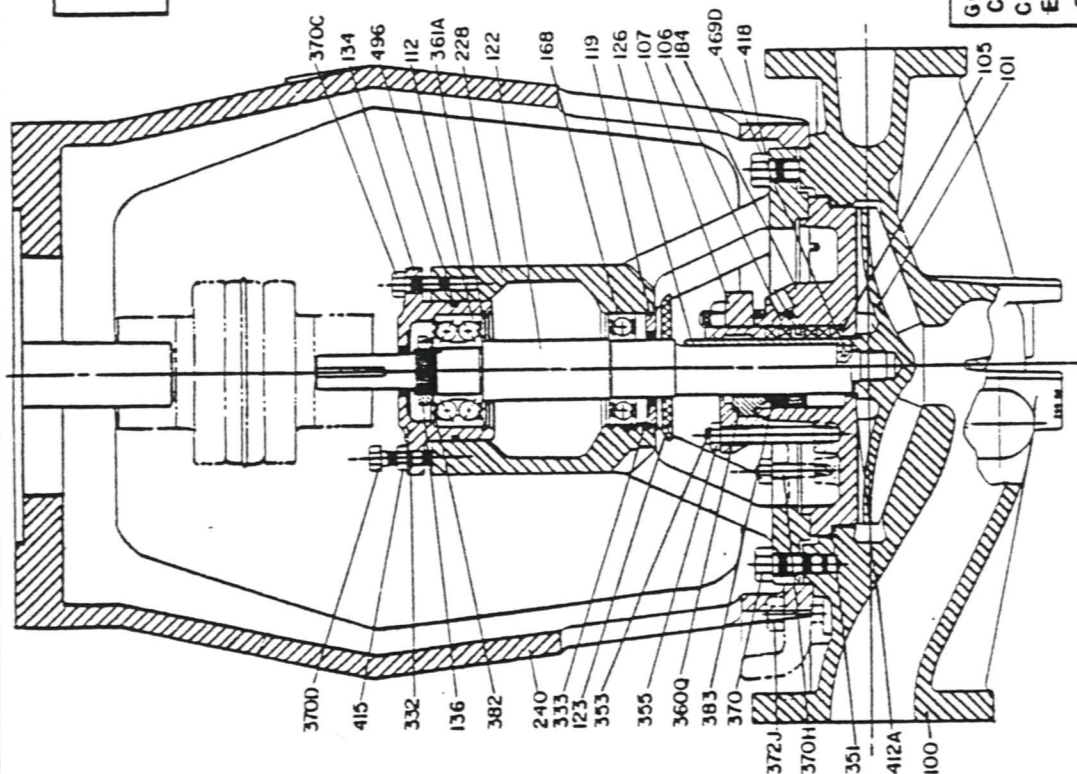


MODEL 3996 ST
GREASE FOR LIFE

BILL OF MATERIAL

ITEM NO	REQD PER PUMP	PART NAME	MATERIAL
100	1	CASING	316 SS
101	1	IMPELLER	316 SS
105	1	LAUNTER-RING	TEFLON
106	1	STUFFING-BOX PACKING	ASBESTOS
107	1	GLAND-58	316 SS
112	1	BALL BRG - 01BD	STEEL
119	1	BRG END COVER INBD	STEEL
122	1	SHAFT	316 SS
123	1	DEFLECTOR	NYLON
126	1	SHAFT-SLEEVE	NYLON
134	1	BRG HOUSING	CAST IRON
136	1	BRG LK NUT	STEEL
168	1	BALL BRG INBD	STEEL
184	1	STUFF BOX COVER	316 SS
228	1	FRAME	CAST IRON
240	1	MOTOR SUPPORT	CAST IRON
332	1	GREASE SEAL	STEEL
333	1	GREASE SEAL	STEEL
351	1	GASKET, CASE	ASBESTOS
353	2,4	GLAND STUD	304 SS
355	2,4	HEX NUT GLAND STUD	316 SS
360Q	1	GASKET, MECH SEAL	ASBESTOS
361A	1	ATING RING, BRG HSG	STEEL
370	4,8	II CAP SCREW, FR - CASE	304 SS
370C	6	II TAP BOLT, BRG HSG	STEEL
370D	3	II 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	CKANE
412A	1	O-RING, IMPLR	TEFLON
415	3	JAM NUT - BRG HSG	STEEL
418	2	II CAP SCREW - FR. JACK	STEEL
469D	1	ROLL PIN, SFT SLV	410 SS
496	1	O-RING, BRG HSG	BUNA-N

● MECH SEAL ONLY



GOULDS SERIAL NO. 719C866-1-2
CUSTOMER KOHM & HAAS BAYPORT, INC.
CUSTOMER P.O. NO. P15-11049
EQUIP-OR ITEM NO. H50-04-20582/583
SERVICE ACETIC ACID COLUMN BOTTOMS

GOULDS PUMPS, INC.	
DATE 9-16-76	BY VAJ
APPROVED	DATE 9-16-76
MODEL 3996 ST	DRAWING 719866 #2
REV 0	

SP-CF-45721-1

REV

DWG. NO.

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.

TYPE -8IT 3196

D. SHAFT SEAL

FOR MODEL 3196 "ST"

GOULDS PUMPS INC.

SENECA FALLS, N.Y.

STD APP

DR APP

CHK RE

APP

DATE

SCALE NONE

FOR DIMENSIONAL DWG SEE # CF-SP-45721

CRANE PACKING COMPANY

6400 W OAKTON ST

MORTON GROVE, ILL

OPERATING CONDITIONS:

LIQUID: ORGANIC ACID/SOLVENT SOLUTION

SP. GR. .678

TEMP: 308°F

PRESS. SUCT.:

SPEED: 1750 R.P.M.

PRESS. DISCH.:

UNIT REF:

CUST. P.O. # F04369/MS27319 P.O.# 015-11049

PROJ. # ROHM & HAAS, BRISTOL, PA.

ITEM # 450-04-20582/583

EQUIP. #

PUMP SERIAL # 719C866-1-2

PUMP MODEL 3196 "ST"

PUMP STUFFING BOX #

SHOP ORDER # 719866

B/P REF.:

DWG. #CF-SP-36029 REV.C DTD. 3/21/77 BY C.P.CO.

ITEM	PART NUMBER	MAT'L CODE	PART NAME	QUANTITY	MATERIAL	REC. SPARE PARTS
1	D 1376	430	MATING RING	1	SIL. CARB.	X
2	0000	224	O-RING	1	KALREZ	X
3	A89 1375	020	PRIMARY RING	1	CARBON	X
4	0000	220	O-RING	1	KALREZ	X
5	C9T 1375	022	RETAINER	1	316 SS	
6	2077		SPRING	12	316 SS	X
7	A9T 1375	032	DISC	1	316 SS	
8	A9 1375	119	SNAP RING	1	316 SS	
9	8-32x1/4 LG.		SET SCREW	4	316 SS	X
10	A24 1375	011	PRIM. RING	1	GL. FILLED CHEMION	X
11	3035		SPRING	3	316 SS	X
12	A24 1375	012	RETAINER	1	316 SS	
13	10-24x1/4 LG.		SET SCREW	1	316 SS	X
14	BY CUST.		SLEEVE			
15	BY CUST.		GASKET		ASBESTOS	
16	BY CUST.		GLAND PLATE		316 SS	

SEAL ASSY NO. A8T-1375-231

BUSH. ASSY NO. A24-1375-010

MATING RING ASSY. NO.

*PART OF ASSEMBLY

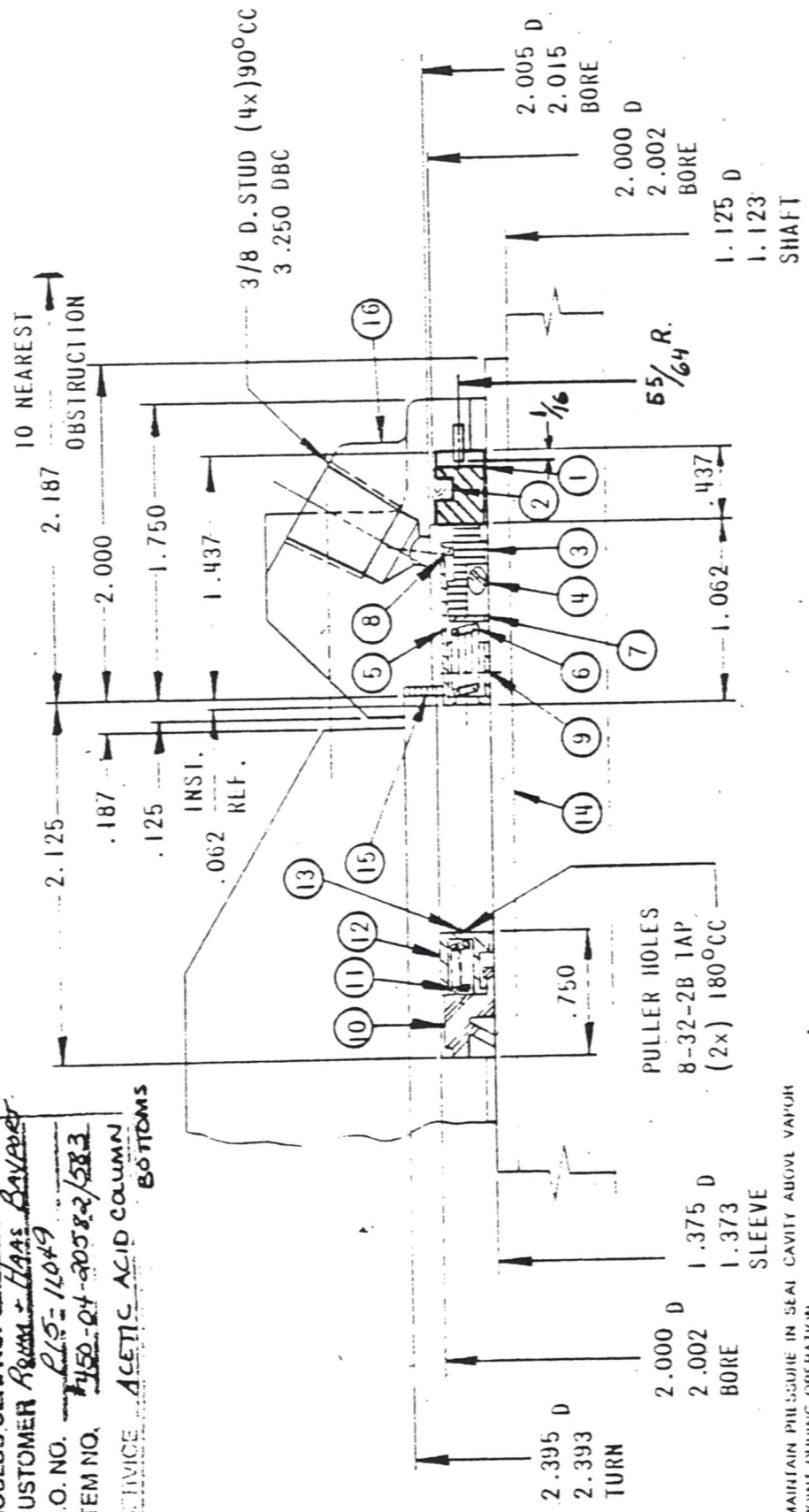
+ SPECIAL PART

CODE: X5F 51081 (316)

VI-1/

DWG. No. CF-SP-45721		REV		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		CRANE PACKING COMPANY 6400 W. OAKTON ST. MORTON GROVE, ILL.		TYPE-8-11 1.375 D. SHAFT SEAL FOR MODEL 3796 "SI" GOULDS PUMPS, INC. SENECA FALLS, N.Y.	
CF-SP-45721		REV		CRANE PACKING COMPANY 6400 W. OAKTON ST. MORTON GROVE, ILL.		TYPE-8-11 1.375 D. SHAFT SEAL FOR MODEL 3796 "SI" GOULDS PUMPS, INC. SENECA FALLS, N.Y.		TYPE-8-11 1.375 D. SHAFT SEAL FOR MODEL 3796 "SI" GOULDS PUMPS, INC. SENECA FALLS, N.Y.	
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GOULDS SER. NO. 719C-806-1-2
 CUSTOMER Rem - Haas Bayview
 P.O. NO. PLS-11049
 ITEM NO. 450-04-20582/583
 SERVICE ACETIC ACID COLUMN
 BOTTOMS



- IMPORTANT NOTES: ☒ IF REQUIRED
- ☒ 4 MAINTAIN PRESSURE IN SEAL CAVITY ABOVE VAPOR POINT DURING OPERATION
 - ☒ 3 BEFORE INSTALLING SEAL LUBRICATE ITEM # 284
 - ☒ 2 VENT GAS ENTHALPMENT BEFORE STARTUP
 - ☒ 1 CLEAN SEAL FACES BEFORE FINAL ASSEMBLY
 - ☐ 6 CIRCULATE SUITABLE LIQUID (INLET AT BOTTOM, OUTLET AT TOP) AT
 - ☐ 5 GLAND MUST BE IN CONTACT WITH HOUSING DO NOT OVERSTRESS

DWG. No. CF-SP-45721

MASTER

RELIANCE

ELECTRIC COMPANY

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

DATA TRANSMITTAL
AND CERTIFICATION

REFER TO THIS NUMBER
IN ALL CORRESPONDENCE

CUSTOMER ORDER NO. **M18171** DATE **02/12/81** REQ. NO. **2YE816745** S.O. NO.

SOLD TO:

GOULDS-ENG PRODUCTS DIV
240 FALL
SENECA FALLS N Y

13148

DATA PROVIDED WITH THIS TRANSMITTAL AND CERTIFICATION IS:

- ☐ FOR CUSTOMER APPROVAL BY DATE: _____
Return of approval prints by the above date is required to assure scheduled shipment, delay in return and/or revision of approval prints may require shipment reschedule. Return approved D/S to data source.
- ☒ FINAL, APPROVED FOR CONSTRUCTION OR INSTALLATION.
- ☐ PRELIMINARY, ENGINEERING IS COMPLETED.
- ☐ REVISED, SUPERSEDES DATA PREVIOUSLY ISSUED.
- ☐ SEE REMARKS.

SHIP TO:

SAME AS "SOLD TO" UNLESS SHOWN

GOULDS PUMPS INC
240 FALL ST
SENECA FALLS, N.Y.

DATA SOURCE

TRANSMITTAL AND CERTIFICATION ISSUED BY: E. J. O'Brien DATE APR 29 81 CK BY G. R. Kilborn DATE APR 29 81
ASHTABULA PLANT
4200 BENEFIT ROAD
ASHTABULA, OHIO 44004

DATE PRINTED: 03/23/81

MOTOR OR GEN. DATA

ITEM	USED FOR		USERS PLANT		MOTOR OR GEN. D/S:	
2-3	CENTR. PUMP				602531-924	
QTY.	FRAME		HP	SERV. FA	TYPE	R.P.M.
2	182TC	3	1.15	P8	1755	
PH/HZ/VOLTS-WINDING		DUTY	ENCLOSURE	AMB./INSL.		PWR. CODE
SEE BELOW		CONT	TEFC-XT	40 F		
BEARINGS	MOUNTING & METHOD OF DRIVE		RAILS OR BASE	MODEL NUMBER		REDUCER OR AUX. D/S:
BALL	W-6 /CPLD					
ROTAT FROM OPP. DR. END		D-C FIELD EXCITATION		DOUBLE SHAFT EXTEN.		BRAKE OR AUX. D/S:
CW						

DATA
BRAKE DATA

REDUCER STYLE	CLASS	FRAME	RATIO	OUTPUT RPM	ASSEMBLY	BLOWER MOTOR PH/HZ/VOLTS/HP
BRAKE TYPE	SIZE	RATING	DUTY	P.O.		
		FT/LB				

DATA FOR CONTROL

D-C MOTOR ARMATURE CURRENT: _____ AMPS	A-C MOTOR INFORMATION FOR SELECTION OF STARTER HEATERS:
FIELD CHARACTERISTICS PER CURVE:	CODE: <u>K</u> LOCKED AMPS: _____
F ₁ -F ₂ _____ MAX. AMPS _____ RPM	F.L. CURRENT: <u>7.6/3.8</u> AMPS.
F ₁₁ -F ₂₂ _____ MAX. AMPS _____ RPM	
F ₃ -F ₄ _____ MAX. AMPS _____ RPM	

SPEC. IN-STAL-LATION FEAT. AND MISC. DATA

ADDITIONAL MOTOR OR GEN DATA:
PHASE: 3 HERTZ: 60 VOLTS: 230/ 460
LD LOC - STD
FR CONST R8

SPECIAL MARKS:
719866

SPECIAL FEATURES:
"ENERGY EFFICIENT" XE
90 C-RISE AT 1.15 S.F.
WITH DRIP CVR
NORMAL THRUST
NEMA NOM EFF 88.5

GOULDS SER. NO. _____
CUSTOMER _____
P.O. NO. _____
ITEM NO. 450-04-20582/583
SERVICE _____

CERTIFIED DRAWINGS & DATA:

DATE: _____ MOD.NO: _____
DATE: _____ MOD.NO: _____
DATE: _____ MOD.NO: _____

1 CERT D/S TO CUST
ATTN JOANNE MOLL
1 CC OF ALL PAPERWORK to 24201

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

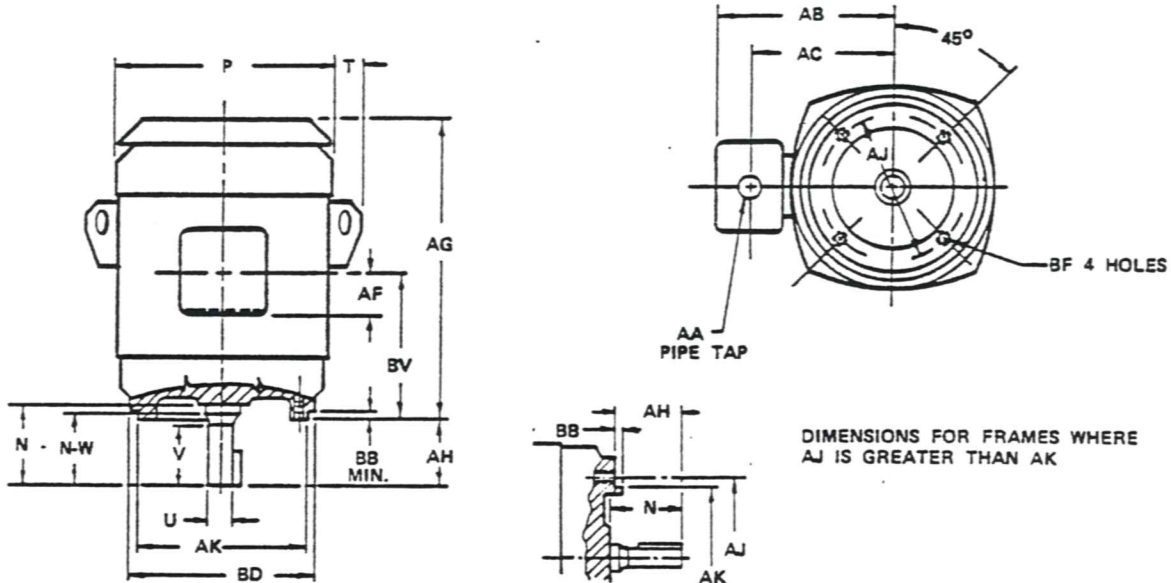
ENCLOSURE: TOTALLY ENCLOSED

COOLING: FAN COOLED

MOUNTING: FOOTLESS, NEMA "C" FACE
VERTICAL SHAFT DOWN

CONSTRUCTION: CAST IRON

FRAMES 180TC THRU 210TC



DIMENSIONS ARE IN INCHES. SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

FRAME SIZE	AG		BV		AH	N	N-W	P	T	U	V	AJ	AK	BB	BD	CONDUIT BOX				BF	TAP DEPTH (MIN)	B.E. SQ	KEY LGTH	WT. LBS
	STD	LG4H	STD	LG4H												AA	AB	AC	AF					
182TC-L182TC	14.81	16.31	5.89	6.62	2.62	2.94	2.75	9.50	1.44	1.1250	2.50	7.25	8.500	.25	9.00	1 3/4	7.25	5.75	1.94	1/2-13	.75	.250	1.75	70
184TC-L184TC	15.81	17.31	6.38	7.12	2.62	2.94	2.75	9.50	1.44	1.1250	2.50	7.25	8.500	.25	9.00	1 3/4	7.25	5.75	1.94	1/2-13	.75	.250	1.75	89
213TC	18.31	—	7.25	—	3.12	3.56	3.38	10.50	1.44	1.3750	3.12	7.25	8.500	.25	9.00	1	9.12	7.12	2.50	1/2-13	.75	.312	2.38	120
215TC-L215TC	20.56	21.44	8.00	8.44	3.12	3.56	3.38	10.50	1.44	1.3750	3.12	7.25	8.500	.25	9.00	1	9.12	7.12	2.50	1/2-13	.75	.312	2.38	141

(1)

(1)

(1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.

(2) "U" VARIES +.0000, -.0005.

(3) "AK" VARIES +.000, -.003.

FACE RUNOUT AND ECCENTRICITY .004 MAX. T.I.R.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

(4) FRAMES PREFIXED BY "L"

GOULDS SER. NO. 719C 866-1-2
CUSTOMER ROHM & HAAS CORPORATION
P.O. NO. P15-11049
ITEM NO. 450-04-20582/583
SERVICE ACETIC ACID COLUMN BOTTOMS

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 R.L. BROWN
CK. BY J.E. Finkbeiner
APP. BY M. J. Brown
DATE 4-22-77

**DIMENSION
SHEET**
SHEET 1 OF 2

602531-924
ISSUE DATE SEPTEMBER 25, 1979