



MODEL 3196_{ST} SIZE 1 x 1-1/2-8
W/150 LB RAISED FACE FLANGES & R.H. ROTATION

FABRICATED STEEL BEDPLATE
W/ DRIP PAN AND DRAIN ON PUMP END



COUPLING GUARD FURNISHED BY GOULDS.
INSTALL FOUNDATION BOLTS IN PIPE SLEEVES.
ALLOW 3/4" TO 1-1/2" FOR GROUTING.

 INDICATES APPROXIMATE CENTER OF GRAVITY.
 PUMP MANUFACTURED PER SECTION III, CLASS 2
 OF THE ASME BOILER & PRESSURE VESSEL CODE,
 1974 EDITION THRU WINTER 1976 ADDENDA.
 PUMP FLANGES CONFORM TO 150 LB ANSI AND
 ARE RAISED FACE.

+ 2RHS*P2=RESIDUAL HEAT REMOVAL SYSTEM PRESS.
PUMP
2CSL*P2= LOW PRESS. CORE SPRAY SYSTEM PRESS.
PUMP
2CSH*P2=HIGH PRESS. CORE SPRAY SYSTEM PRESS.
PUMP
2ICS*P2= REACTOR CORE ISOLATION COOL SYSTEM
PRESS,PUMP

▲ PLUGGED

TAPPED OPENINGS		
NO.	QTY.	PURPOSE
1	4	1/2 BEARING FRAME COOLING (N.R.)
2	1	3/8 OIL DRAIN
3	1	3/4 BEDPLATE DRAIN
4	1	3/8 CASE DRAIN
5	2	1/4 GAUGE CONN.
6	1	1/4 GLAND FLUSH
7	1	1/4 CASE BY-PASS

MECHANICAL SEAL SPECIFICATIONS	
MFR.	<u>DURAMETALLIC</u>
TYPE	<u>PTO</u>
CODE	<u>EU5EFU/U</u>
GLAND TYPE	<u>FLUSH</u>
GLAND MATERIAL	<u>316 SS</u>

MOTOR SPECIFICATIONS	
MFR.	WESTINGHOUSE
FRAME	215 T
H.P.	10
R.P.M.	3455
ENCLOSURE	ODP
PHASE	3
HERTZ	60
VOLTAGE	575
SERVICE FACTOR	1.15

PUMP CHARACTERISTICS		
DESIGN FLOW	50	G.P.M.
DESIGN HEAD	175	FT.
DESIGN PRESSURE	185	PSIG
DESIGN TEMPERATURE	212	°F.
HYDRO TEST PRESS.	278	PSIG

WEIGHTS	WET	DRY
PUMP	<u>102</u> LB.	<u>100</u> LB.
MOTOR	<u>140</u> LB.	<u>140</u> LB.
BEDPLATE	<u>175</u> LB.	<u>175</u> LB.
TOTAL	<u>417</u> LB.	<u>415</u> LB.

COUPLING SPECIFICATIONS	
MFR.	THOMAS
TYPE	DBZ-C W/SS DISCS
SIZE	126
SERVICE FACTOR	4 (1)

BOLT DATA			
	SIZE IN.	MATERIAL ASTM NO.	TORQUE (FT. LB.)
FOUNDATION	5/8	SA-307	70

CERTIFIED DRAWING
Approved For Construction Purposes
GOULDS PUMPS INC.
SENECA FALLS, N.Y.
SEPT. 14, 1978
Signed *A.R. Nyatt*

① MAXIMUM ALLOWABLE DESIGN NOZZLE LOADS		
	SUCTION	DISCHARGE
F AXIAL (LBF)	300	245
F SHEAR (LBF)	180	147
M BENDING (IN-LBF)	1619	914
M TORSION (IN-LBF)	1943	1097

GOULDS SERIAL NO. N7738980-1-2-3-4-5
CUSTOMER NIAGARA MOHAWK POWER CORP.
CUSTOMER P.O. NO. NMP2-P222X SERVICE:SEE #4 NOTE
ITEM NO. 2RHS*P2, 2CSL*P2, 2CSH*P2, 2ICS*P2, SPARE
ENGR. JOB ORDER: 12177
NINE MILE POINT NUCLEAR STATION-UNIT# 2

DRAWN BY: R K H	DATE: 12-26-77	DWG. NO. N773980 # 1	REV
CHECKED BY: DRH	DATE: 12-28-77		5

TI
APERTURE
CARD

STONE & WEBSTER ENGINEERING CORPORATION NINE MILE POINT NUCLEAR STATION - UNIT 2 NIAGARA MOHAWK POWER CORPORATION D 12177					
☒ INSTRUCTIONS TO SUPPLIER (E2)					
☒ APPROVED		AS DEFINED IN SPECIFICATION			
APPROVED AS REVISED					
RELEASED FOR FABRICATION					
RELEASED FOR MATERIAL PURCHASE					
SUPPLIER TO RESUBMIT	Q N T I T Y	REVISED PRINTS			
		REVISED MICROFILM APERTURE CARDS			
		FOR REVIEW			
		FOR RECORD			
NONE REQUIRED					
NOTES:					
(E1) ☒ FOR INFORMATION ONLY RETURN TO SUPPLIER NOT REQUIRED					
INSTRUCTIONS TO DESIGNING ENGINEER (E1)					
I-D	P-I	P-S	R&C	NEW	☒
DESIGN ENGINEER'S DATE STAMP (D) OUT: JUL 2 1980					
INITIALS OF SELECTED REVIEWERS J.E.					
RESPONSIBLE ENGINEER'S DATE STAMP (E2) NOTED JUL 2 1980 T. ORTNER					
SUPERSEDES S & W FILE NO (E1) (25-34) (55-38)					
3	001613000500020				
REMARKS (C): LIMIT TO 22 CHARACTERS & BLANKS (57-74)					
S & W EQUIP 'ID CODE (E1) (25-38)		AREA DESIGNATION CODES (E1) (75-80)			
2	MFR'S DRAWING NO (C) LIMIT TO 24 CHARACTERS & BLANKS (57-62) N773780 K1 REV 5 GOULDS PUMPS				
MFR'S NAME (C) LIMIT TO 40 CHARACTERS & BLANKS (57-90)					
DATE MONTH DAY YEAR NO		DWG NO (E1)		MAX DATE IN CHARGE (E1)	
RECD 06/10/80		(31)		(21)	
1	FUNCTIONAL TITLE (E1) LIMIT TO 30 CHARACTERS & BLANKS (57-90) SYSTEM PRESSURE PUMPS OUTLINE DWG				
S & W FILE NO (E1) (25-34)		(11-20)		(21-23)	
JOB ORDER NO 001613000500020 E					
12177 nne					

8601230335

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