

60352/3/4

## CHEMICAL CONSTRUCTION CORPORATION

Reg'n. # 100-1

## DATA SHEET

P.O. # 1498-15

## RECIPROCATING PUMP

PAGE 07

| DATE                  | APPROVED BY | CLIENT                                                                   | AND                         | LOCATION                                   | AUTHORIZATION NO.                         |
|-----------------------|-------------|--------------------------------------------------------------------------|-----------------------------|--------------------------------------------|-------------------------------------------|
|                       |             | BORDEN CHEMICAL CO.                                                      | 60352                       | GEISMARLA                                  | 1498                                      |
|                       |             | PLANT SECTION                                                            | AND                         | SECTION NUMBER                             | CODE NUMBER                               |
|                       |             | SYNTHESIS                                                                | 60354                       | 55-100                                     | J-101 A.B.C                               |
| OPERATING CONDITIONS  |             |                                                                          |                             |                                            |                                           |
|                       |             | PRODUCT HANDLED                                                          | RECYCLE LIQUOR              | DIFFERENTIAL PRESSURE                      | NORMAL 9.960 PSIG                         |
|                       |             | CORROSION DUE TO                                                         | ACETIC ACID FORMIC ACID     | DESIGN                                     | PSIG                                      |
|                       |             | PUMPING TEMPERATURE                                                      | 100 F                       |                                            |                                           |
|                       |             | SP. GR. AT 60 F                                                          | 0.95 AT PUMP TEMP.          | SUCTION PRESSURE                           | NORMAL PSIG                               |
|                       |             | VISCOSITY                                                                | CSU AT PUMP TEMP.           | DESIGN                                     | 40 PSIG                                   |
|                       |             | CAPACITY - GPD AT 60 F                                                   | NORMAL                      | VAPOR PRESSURE AT PUMP TEMP                | PSIG                                      |
|                       |             |                                                                          | DESIGN                      | ① NPSH AVAILABLE                           | FT NPSH REQUIRED                          |
|                       |             | GPM AT PUMP TEMP                                                         | NORMAL 24.3                 | NPSH INCLUDES                              | FT STATIC HEAD LIFT                       |
|                       |             |                                                                          | DESIGN 26.7                 | STEAM PRESSURE                             | 600 PSIG                                  |
|                       |             |                                                                          |                             | % SATURATED OR TOTAL TEMP                  | 700°F                                     |
|                       |             | DISCHARGE PRESSURE                                                       | NORMAL PSIG                 | EXHAUST STEAM PRESSURE                     | 85 PSIG                                   |
|                       |             |                                                                          | DESIGN 10.000 PSIG          | MOTOR CHARACTERISTICS                      | 440 VOLTS 3 PHASE 60 CYCLE                |
| SPECIFICATIONS        |             |                                                                          |                             |                                            |                                           |
|                       |             | MANUFACTURER                                                             | ALDRICH PUMP                | PISTON SPEED FT/MIN                        | NORMAL DESIGN                             |
|                       |             | TYPE                                                                     | HORIZONTAL TRIPLEX          | RPM                                        | NORMAL 135 DESIGN 148.5                   |
|                       |             |                                                                          | SINGLE ACTING POWER PUMP    | VALVE AREA SQ IN SUCTION                   | DISCHARGE                                 |
|                       |             |                                                                          |                             | VEL THRU SUCT. VALVES FT/MIN               | NORMAL DESIGN                             |
|                       |             |                                                                          |                             | MAX STALLING PRESSURE                      | PSIG                                      |
|                       |             | SIZE                                                                     | 1 1/16 X 7                  | LIQUID END DESIGN PRESSURE                 | PSIG                                      |
|                       |             | SUCT FLANGE-SIZE                                                         | 1 1/2" ASA 150 FACING RF    | HYD HP                                     | NORMAL 142 DESIGN 156                     |
|                       |             | DISCH FLANGE-SIZE                                                        | 3 1/2" ASA BASF FACING LENS | STEAM REQUIRED - LB/HP/HR                  | 336                                       |
|                       |             | STEAM IN FLANGE-SIZE                                                     | 2" ASA 600 FACING RF        | TOTAL STEAM LB/HP                          | NORMAL 5350 DESIGN 6000                   |
|                       |             | EXHAUST FLANGE-SIZE                                                      | 10" ASA 150 FACING FF       | MOTOR DATA                                 | 200 HP                                    |
|                       |             |                                                                          |                             |                                            | 177 BHP                                   |
| MATERIALS AND DETAILS |             |                                                                          |                             |                                            |                                           |
|                       |             | MATERIAL FOR LIQUID END                                                  |                             | STEAM END PACKING - TYPE                   |                                           |
|                       |             | CASE                                                                     | S.A.E. 4340                 | SIZE                                       |                                           |
|                       |             | LINER                                                                    | HASTELLOY "C"               | LIQUID END                                 |                                           |
|                       |             | PISTON                                                                   |                             | PACKING BOX - TYPE                         |                                           |
|                       |             | PISTON RING                                                              |                             | SIZE - I.D.                                | O.D. LENGTH                               |
|                       |             | PISTON ROD                                                               |                             | FACING - TYPE                              |                                           |
|                       |             | PLUNGER                                                                  | 316 SS 1/2 COLMCNOY COAT    | PACKING ARRANGEMENT                        |                                           |
|                       |             | VALVES                                                                   | 17-4 PH COND. A             | SPARE PACKING                              |                                           |
|                       |             | VALVE SEATS                                                              | 17-4 PH COND. A             | PACKING GLAND                              |                                           |
|                       |             | VALVE SPRINGS                                                            | 316 SS                      | GLAND NUTS                                 |                                           |
| GENERAL INFORMATION   |             |                                                                          |                             |                                            |                                           |
|                       |             | SPACE REQUIRED TO REMOVE RODS                                            |                             | DIM PRINT OR DWG NO.                       |                                           |
|                       |             | COOLING WATER REQUIRED                                                   | F GPM                       | NET WEIGHT - PUMP AND BASE                 |                                           |
|                       |             | COOLING OIL LANTERN RINGS                                                | F GPM                       | INSPECTION - HYDRO TEST                    |                                           |
|                       |             | FLUSHING OIL                                                             | GPM                         | PENFORM TEST                               |                                           |
|                       |             | LUBRICATION                                                              |                             | SPECIAL TEST                               |                                           |
|                       |             | REVOLUTION COUNTER                                                       |                             | FOUNDATION BOLTS TO BE FURNISHED BY        |                                           |
|                       |             | INSULATION - STEAM END BY                                                |                             | FLANGE STUDS - TO BE FURNISHED BY PUMP MFG |                                           |
|                       |             | ① NPSH AVAILABLE MEASURED TO TOP OF PUMP FOUNDATION                      |                             |                                            |                                           |
|                       |             | REMARKS:                                                                 |                             |                                            |                                           |
|                       |             | EQUIPMENT SHALL BE FURNISHED IN ACCORDANCE WITH CHEMICO'S SPECIFICATIONS | ISSUE                       | AND AS NOTED                               | PREPARED BY 2DG DATE 8/25/65 REFERENCE TO |