

# SALES ACKNOWLEDGEMENT

# SULZER

Print Date 10/13/2000

Page 1

|                                                                                                                                                                                           |                                    |                                                                                     |                                      |                                                    |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------|----------------------------------|
| <b>SULZER PROCESS PUMPS (CANADA) INC.</b><br>5055, rue Levy, Saint-Laurent, Québec<br>H4R 2N9, Canada<br>Phone 514 - 333-7760 Fax 514 - 333-6324                                          |                                    | Sulzer Order No.<br><b>CAE2000075</b>                                               |                                      | Item #<br><b>028</b>                               | Order Date<br><b>10/12/2000</b>  |
|                                                                                                                                                                                           |                                    | Customer P.O. No.<br><b>445014</b>                                                  |                                      | P.O. Date<br><b>09/22/2000</b>                     |                                  |
| Bill to<br><b>ALLIANCE FOREST PRODUCTS U.S. CORP.</b><br><br><b>17589 PLANT ROAD</b><br><br><b>COOSA PINES, AL 35044-0555</b>                                                             |                                    | Equipment Number<br><b>310-1140-039/M94267</b> <sup>79</sup>                        |                                      |                                                    |                                  |
|                                                                                                                                                                                           |                                    | Serial Number                                                                       | Currency<br><b>USD</b>               | Net Amount<br><b>33302.00</b>                      |                                  |
|                                                                                                                                                                                           |                                    | Terms of Payment<br><b>SPECIAL TERMS, SEE NOTE</b>                                  |                                      |                                                    |                                  |
| Ship to<br><b>ALLIANCE FOREST PRODUCTS U.S. CORP.</b><br><br><b>17589 PLANT ROAD</b><br><br><b>COOSA PINES, AL 35044-0555</b>                                                             |                                    | Terms of Delivery<br><b>DDP (INCOTERMS 2000)</b><br><b>COOSA PINES, AL, PREPAID</b> |                                      |                                                    |                                  |
|                                                                                                                                                                                           |                                    | Way of Delivery<br><b>Truck</b>                                                     |                                      |                                                    | Onsite Date<br><b>02/16/2001</b> |
| Marks and Tagging<br><b>PUMP, B-LINE PRIMARY</b><br><b>FINE SCREENS FEED</b> <sup>79</sup><br><b>310-1140-039 / M94267</b><br><b>445014</b><br><b>4121001112</b><br><b>CAE2000 075 28</b> |                                    | Order Contact<br><b>TONY LIANE</b>                                                  |                                      |                                                    |                                  |
|                                                                                                                                                                                           |                                    | Sales Contact<br><b>TONY GEDEON</b>                                                 |                                      |                                                    |                                  |
|                                                                                                                                                                                           |                                    | Document Requirements<br><b>4 Copies in English</b>                                 |                                      |                                                    |                                  |
| Pump Size<br><b>APT61-24</b>                                                                                                                                                              | N.Am. Pump Size<br><b>24X24-28</b> | Casing Material<br><b>A890 3A</b>                                                   | Consistency<br><b>0.8 % BD</b>       | Pumped liquid<br><b>DEINKED STOCK</b>              |                                  |
| Capacity Q<br><b>22400 USGPM</b>                                                                                                                                                          | Head H<br><b>115 ft</b>            | NPSH av<br><b>26 ft</b>                                                             | NPSH req<br><b>15.7 ft</b>           | pH<br><b>7-9</b>                                   |                                  |
| Capacity in alternative unit                                                                                                                                                              | Efficiency<br><b>88 %</b>          | Temperature<br><b>125 F</b>                                                         | Dimensional drawing<br><b>P20058</b> | Characteristic curve<br><b>K02323</b>              |                                  |
| Impeller Type<br><b>Open</b>                                                                                                                                                              | Impeller No.<br><b>286875</b>      | Impeller diameter<br><b>685 mm</b>                                                  | Pump power P<br><b>739 HP</b>        | Base plate type<br><b>Pump Motor/Steel/Zinc</b>    |                                  |
| Coupling Type<br><b>Rex-Omega ES</b>                                                                                                                                                      | Mechanical seal type               | Coupling Guard material<br><b>S + Z EN10025</b>                                     | Dynamic seal power                   | Shaft Seal Fitting<br><b>P02</b>                   |                                  |
| Motor IEC/NEMA code<br><b>400-1120</b>                                                                                                                                                    | Power<br><b>800 HP</b>             | Rotational Speed<br><b>900 RPM</b>                                                  | Manufacturer<br><b>TOSHIBA</b>       | Future motor IEC/NEMA code<br><b>400-1120</b>      |                                  |
| Frequency<br><b>60 Hz</b>                                                                                                                                                                 | Voltage<br><b>2.3KV</b>            | Enclosure<br><b>TEFC</b>                                                            | Motor Supplied by<br><b>Customer</b> | Bearing Unit Lubrication<br><b>Oil lubrication</b> |                                  |

Order Remarks:

TERMS OF PAYMENT:

ALL PAYMENTS ARE DUE NET THIRTY (30) DAYS AFTER COMPLETION OF EACH EVENT AND RECEIPT OF INVOICE COMPLETE WITH SUPPORTING DOCUMENTATION, WHICHEVER OCCURS LAST

90% UPON DELIVERY OF EACH PUMP THAT HAS BEEN RELEASED AND THE CORRESPONDING CHANGE ORDER ISSUED

10% HOLD BACK UNTIL COMMISSIONING AND ACCEPTANCE BY BUYER

PRICING:

FOR NON-MENA MOTORS, FINAL PRICES ARE SUBJECT TO CONFIRMATION AFTER RECEIPT OF CERTIFIED MOTOR PRINTS

=====

INSPECTION LOCATION:

FOR INSPECTION PURPOSES PLEASE CONTACT:

MR. SAM SEWELL

SULZER PROCESS PUMPS (US)

155 AHLSTROM WAY (PUE FACTORY)

EASLEY, SC, USA, 29640

TEL: (864) 855-9090, FAX: (864) 855-9095

PAINTING:

SULZER STANDARD FACTORY APPLIED PAINTING WITH THE RAL 5019 (CAPRI BLUE) COLOR & GUARDS IN RAL 1021 (SAFETY YELLOW) AT NO EXTRA CHARGE

FINAL IMPELLER TRIMS:

**SULZER****SALES ACKNOWLEDGEMENT**

Print Date 10/13/2000

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|                                                                                                                                                                             |                                                                                     |                        |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------|----------------------------------|
| <b>SULZER PROCESS PUMPS (CANADA) INC.</b><br>5055, rue Levy, Saint-Laurent, Québec<br>H4R 2N9, Canada<br>Phone 514 - 333-7760 Fax 514 - 333-6324                            | Sulzer Order No.<br><b>CAE2000075</b>                                               | Item #<br><b>028</b>   | Order Date<br><b>10/12/2000</b>  |
|                                                                                                                                                                             | Customer P.O. No.<br><b>445014</b>                                                  |                        | P.O. Date<br><b>09/22/2000</b>   |
| Bill to<br><b>ALLIANCE FOREST PRODUCTS U.S. CORP.</b><br><br><b>17589 PLANT ROAD</b><br><br><b>COOSA PINES, AL 35044-0555</b>                                               | Equipment Number<br><b>310-1140-039/M94267 79</b>                                   |                        |                                  |
|                                                                                                                                                                             | Serial Number                                                                       | Currency<br><b>USD</b> | Net Amount<br><b>33302.00</b>    |
|                                                                                                                                                                             | Terms of Payment<br><b>SPECIAL TERMS, SEE NOTE</b>                                  |                        |                                  |
| Ship to<br><b>ALLIANCE FOREST PRODUCTS U.S. CORP.</b><br><br><b>17589 PLANT ROAD</b><br><br><b>COOSA PINES, AL 35044-0555</b>                                               | Terms of Delivery<br><b>DDP (INCOTERMS 2000)</b><br><b>COOSA PINES, AL, PREPAID</b> |                        |                                  |
|                                                                                                                                                                             | Way of Delivery<br><b>Truck</b>                                                     |                        | Onsite Date<br><b>02/16/2001</b> |
|                                                                                                                                                                             | Order Contact<br><b>TONY LIANE</b>                                                  |                        |                                  |
| Marks and Tagging<br><b>PUMP, B-LINE PRIMARY</b><br><b>FINE SCREENS FEED</b><br><b>310-1140-039 / M94267</b><br><b>445014</b><br><b>4121001112</b><br><b>CAE2000 075 28</b> | Sales Contact<br><b>TONY GEDEON</b>                                                 |                        |                                  |
|                                                                                                                                                                             | Document Requirements<br><b>4 Copies in English</b>                                 |                        |                                  |

Remarks Continued

-----  
 MUST BE PROVIDED SIX (6) WEEKS PRIOR TO DELIVERY  
 EXCEPT FOR APT6, APT54 & APT55 WHICH WILL REQUIRE  
 THEM NINE (9) WEEKS PRIOR TO DELIVERY  
 =====

MOTOR MOUNTING:  
 -----

SULZER WILL DRILL BASE PLATES AS PER CERTIFIED  
 MOTOR PRINTS BY CUS. SULZER WILL MOUNT CUS.  
 SUPPLIED NEMA MOTORS AT EASLEY, SC FACTORY  
 CUS. RESPONSABLE FOR MOUNTING NCM-NEMA MOTORS  
 =====

|                              |                                     |                        |
|------------------------------|-------------------------------------|------------------------|
| <b>PRODUCT SPECIFICATION</b> | <b>Description</b> APT61-24         |                        |
|                              | Serial Number                       |                        |
|                              | Time of delivery/EXW                | 02/09/2001             |
|                              | Date printed                        | 10/13/2000 Page 1      |
| Customer                     | ALLIANCE FOREST PRODUCTS U.S. CORP. |                        |
| 17589 PLANT ROAD             | 17589 PLANT ROAD                    |                        |
| COOSA PINES, AL 35044-0555   | COOSA PINES, AL 35044-0555          |                        |
| UNITED STATES                | UNITED STATES                       |                        |
| Gust. order # 445014         |                                     |                        |
| Cust. PO Line # ZOR          |                                     |                        |
| Country code US              | Equipment No                        | 310-1140-039/M94267 79 |

## PROCESS DATA

|                          |                               |                       |             |
|--------------------------|-------------------------------|-----------------------|-------------|
| Mill                     | 13                            | Capacity Q            | 22400 USGPM |
| Process                  | 270                           | Head H                | 115 ft      |
| Application              | PRI. FINE SCREENS <i>FEED</i> | Characteristic curve  | K02323      |
| Pumped liquid            | DEINKED STOCK                 | Pump power P          | 739 HP      |
| Temperature              | 125 F                         | Motor power           | 800 HP      |
| pH                       | 7-9                           | Efficiency            | 88 %        |
| Consistency              | 0.8 % BD                      | Pump rotational speed | 890 RPM     |
| Min head on suction side | 1 ft                          | Variable speed        | No          |
| Max head on suction side | 13 (STATIC) ft                | NPSH req              | 15.7 ft     |
| NPSH av                  | 26 ft                         |                       |             |

## PUMP

|                        |                          |
|------------------------|--------------------------|
| Supplier               | Easley                   |
| Dimensional drawing    | P20058                   |
| Conformity             | 89/392/EEC machinery /US |
| Version                | 09                       |
| Pump Size              | APT61-24                 |
| Impeller Type          | Open                     |
| Impeller No.           | 286875                   |
| Impeller diameter      | 685 mm                   |
| Impeller turning angle | 15 °                     |
| Impeller max.diameter  | 700 mm                   |
| Flange Drilling        | ASME B16.5 CLASS 150     |

*IMPELLER MATERIAL AB90 3A*  
*SHAFT MATERIAL SS 2324*

|                            |                   |
|----------------------------|-------------------|
| Casing Material            | AB90 3A           |
| Gasket Material            | Klinger SIL-4430  |
| O-ring Material            | NBR               |
| Bearing Unit Lubrication   | Oil lubrication   |
| Bearing unit model         | 01 SS2324/NotSpec |
| Constant level oiler 638   | Yes               |
| Shaft Seal Fitting         | P02               |
| Customer documents lang./q | EN/04             |
| Component documents lang./ | EN/04             |
| Special parts              | METCO 16 SLEEVE   |

## DRIVE MOTOR For Information Only

|                   |          |                  |         |
|-------------------|----------|------------------|---------|
| Motor Supplied by | Customer | Rotational Speed | 900 RPM |
| Manufacturer      | TOSHIBA  | Power            | 800 HP  |

SULZER PROCESS PUMPS (CANADA) INC.  
5055, rue Levy  
Saint-Laurent, Québec  
H4R 2N9  
Canada

|                |                           |
|----------------|---------------------------|
| Contact Person | TONY GEDEON               |
| LBU Order #    | CAE2000075                |
| LBU Position   | 028                       |
| Telephone      | 514 - 333-7760            |
| Telefax        | 514 - 333-6324 (bomcust1) |

|                                                                                                                                                                                                             |                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT SPECIFICATION</b>                                                                                                                                                                                | <b>Description</b> APT61-24<br>Serial Number<br>Time of delivery/EXW      02/09/2001<br>Date printed      10/13/2000      Page 2                                |
| Customer<br>ALLIANCE FOREST PRODUCTS U.S. CORP.<br><br>17589 PLANT ROAD<br><br>COOSA PINES, AL 35044-0555<br>UNITED STATES<br>Cust. order #      445014<br>Cust. PO Line #      ZOR<br>Country code      US | ALLIANCE FOREST PRODUCTS U.S. CORP.<br><br>17589 PLANT ROAD<br><br>COOSA PINES, AL 35044-0555<br>UNITED STATES<br><br>Equipment No      310-1140-039/M94267: 79 |

## COUPLING

Coupling Type      Rex-Omega ES

## COUPLING GUARD

Coupling Guard material      S-Z EN10025

## BASE PLATE

Base plate type      Pump Motor/Steel/Zinc      Foundation screw type      Grouted

## MOTOR ALIGNMENT BLOCK

## ORDER REMARKS

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### INSPECTION LOCATION:

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 5055, rue Levy  
 Saint-Laurent, Québec  
 H4R 2N9  
 Canada

|                |                           |
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|                                                                                                                                                                                                             |                                                                                                                                                                |
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| <b>PRODUCT SPECIFICATION</b>                                                                                                                                                                                | <b>Description</b> APT61-24<br>Serial Number<br>Time of delivery/EXW      02/09/2001<br>Date printed      10/13/2000      Page 3                               |
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PAINTING:

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SULZER STANDARD FACTORY APPLIED PAINTING WITH  
 THE RAL 5019 (CAPRI BLUE) COLOR & GUARDS IN  
 RAL 1021 (SAFETY YELLOW) AT NO EXTRA CHARGE

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 SUPPLIED NEMA MOTORS AT EASLEY, SC FACTORY  
 CUS. RESPONSABLE FOR MOUNTING NON-NEMA MOTORS

=====

## P A I N T I N G

Painting      E180/3-Fe Sa2 1/2 SFS4962  
 Color Shade      RAL-5019

SULZER PROCESS PUMPS (CANADA) INC.  
 5055, rue Levy  
 Saint-Laurent, Québec  
 H4R 2N9  
 Canada

Contact Person      TONY GEDEON  
 LBU Order #      CAE2000075  
 LBU Position      028  
 Telephone      514 - 333-7760

Telefax      514 - 333-6324      (bomcust1)

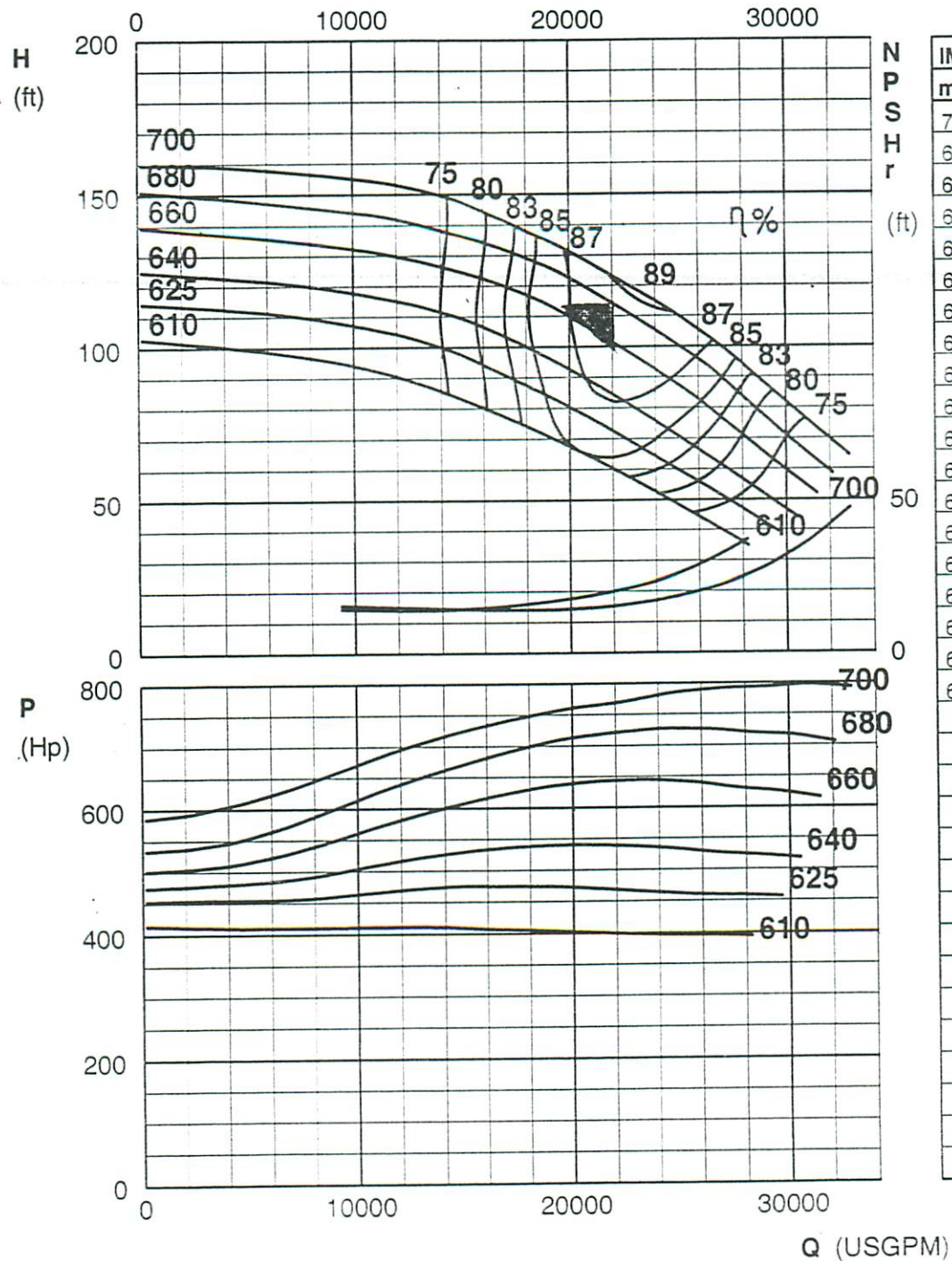
# APT Process pumps Characteristic curve K02323



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Version 01> / en / 920821 / Replaces 901101 / K02323

**APT61-24 (24x24-28)**  
Impeller 286875 OPEN B5.24 Z6  
890 rpm



| IMPELLER DIA |      |     |
|--------------|------|-----|
| mm           | in   | deg |
| 700          | 27.6 | 15  |
| 695          | 27.4 | 15  |
| 690          | 27.2 | 15  |
| 685          | 27.0 | 15  |
| 680          | 26.8 | 15  |
| 675          | 26.6 | 16  |
| 670          | 26.4 | 16  |
| 665          | 26.2 | 16  |
| 660          | 26.0 | 17  |
| 655          | 25.8 | 17  |
| 650          | 25.6 | 18  |
| 645          | 25.4 | 18  |
| 640          | 25.2 | 19  |
| 635          | 25.0 | 19  |
| 630          | 24.8 | 20  |
| 625          | 24.6 | 20  |
| 620          | 24.4 | 21  |
| 615          | 24.2 | 22  |
| 610          | 24.0 | 23  |

|                 |                                  |              |            |
|-----------------|----------------------------------|--------------|------------|
| SERVICE:        | B Line Pri. Fine Screens Feed P: | FLOW (USGPM) | TDH (ft)   |
| EQUIP. No.:     | 310-1140-039 / M94267 79         | 22400 22,400 | 115.00     |
| CUST. P.O. No.: | 445014                           | EFF. (%)     | Power (HP) |
| API-C JOB No.:  | CAE2000 075 28                   | 88           | 800.0      |
| DATE / REV.:    | OCT-16-2000 / R. 0               | NEMA PR.     | NEMA FUT.  |
|                 |                                  | BY OWNER     | BY OWNER   |

# APT Process Pumps

## Dimensional drawing P20058

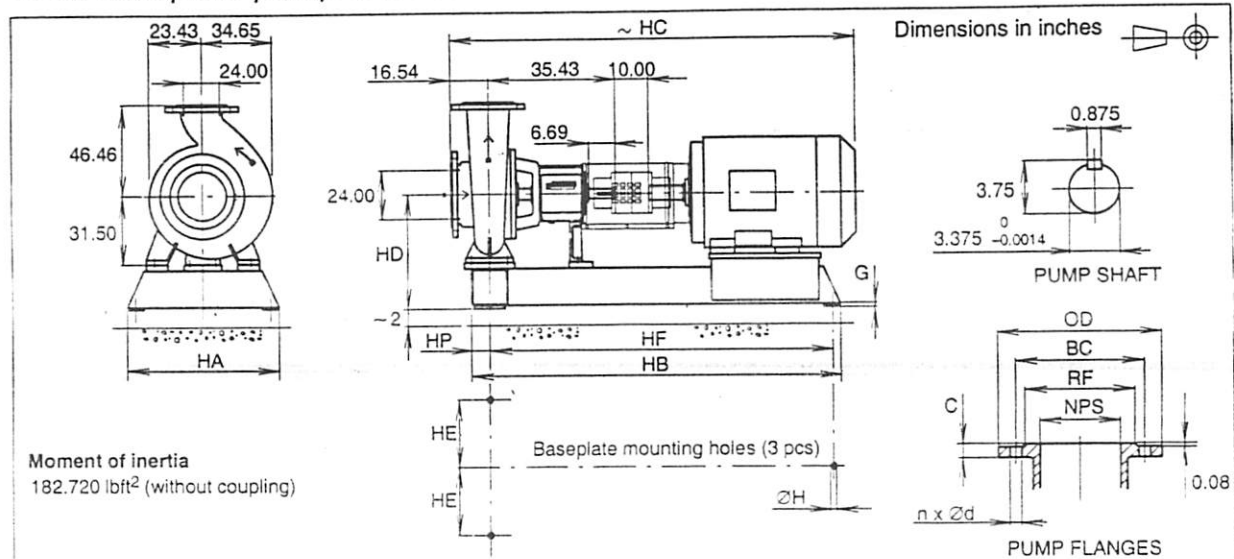


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Version 04 > / 940221 / en / P20058

### APT61-24 (24x24-28)

Steel baseplate pump and motor



| DIMENSIONS          |                     |      |           |       |        |        |      |        |       |       |      |      |                           |
|---------------------|---------------------|------|-----------|-------|--------|--------|------|--------|-------|-------|------|------|---------------------------|
| Primary motor frame | Max motor frame (1) | (2)  | Baseplate | HD    | HC     | HB     | HP   | HF     | HA    | HE    | H    | G    | Weight lbs <sup>(3)</sup> |
| 447T                | 5011LL              | 449T | 13        | 43.20 | 110.00 | 117.25 | 5.00 | 110.00 | 52.75 | 24.00 | 1.50 | 0.69 | 5710                      |
| 449T                | 5011LL              | -    | 13        | 43.20 | 116.00 | 117.25 | 5.00 | 110.00 | 52.75 | 24.00 | 1.50 | 0.69 | 5710                      |
| 449TS               | 509LS               | -    | 12        | 43.20 | 113.00 | 106.25 | 5.00 | 99.00  | 52.75 | 24.00 | 1.50 | 0.69 | 5580                      |

| DRILLING OF FLANGES |       |       |      |                       |      |                  |                       |      |                  |
|---------------------|-------|-------|------|-----------------------|------|------------------|-----------------------|------|------------------|
|                     |       |       |      | ANSI B 16.1 Class 125 |      |                  | ANSI B 16.5 Class 150 |      |                  |
| NPS                 | OD    | RF    | C    | BC                    | d    | n <sup>(4)</sup> | BC                    | d    | n <sup>(4)</sup> |
| 24.00               | 33.27 | 25.97 | 1.88 | 29.50                 | 1.42 | 20               | 29.50                 | 1.42 | 20               |

|                                                                       |                                         |
|-----------------------------------------------------------------------|-----------------------------------------|
| 1. Max. NEMA motor frame, which can be installed onto the baseplate.  | 3. Weight without coupling and motor.   |
| 2. Max. NEMA motor frame with the same shaft height as primary motor. | 4. Flange bolting straddles centerline. |

FOR REFERENCE

|                   |                                  |
|-------------------|----------------------------------|
| SERVICE:          | B Line Pri. Fine Screens Feed P. |
| EQUIP. No.:       | 310-1140-039 / M94267            |
| CUST. P.O. No.:   | 445014                           |
| API-C JOB No.:    | CAE2000 075 28                   |
| HP / RPM / FRAME: | 739.0 / 890 / BY OWNER           |

|                            |                    |
|----------------------------|--------------------|
| CERTIFIED FOR CONSTRUCTION |                    |
| DATE / REV.:               | OCT-16-2000 / R. 0 |
| SIGNED:                    |                    |

1450-1120

# APT Process Pumps

## Design data



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Version 09 > / 960801 / en / N12851 / Page 7 (7)

**Table 7 Bearing unit size 6**

| Pump type                                  | 61-20 | 61-24         | 62-16 |
|--------------------------------------------|-------|---------------|-------|
| <b>Shaft diameters</b>                     |       |               |       |
| At impeller                                |       | 2.953         |       |
| Under sleeve                               |       | 3.543         |       |
| Between bearings                           |       | 4.80          |       |
| At coupling                                |       | 3.375         |       |
| <b>Bearings</b>                            |       |               |       |
| Radial bearing type                        |       | NUP 320       |       |
| Thrust bearing type                        |       | 2 x 7322 BECB |       |
| Radial brg. life (HRS. x 10 <sup>3</sup> ) | 1000  | 500           | 500   |
| Thrust brg. life (HRS. x 10 <sup>3</sup> ) | 150   | 100           | 100   |
| Bearing span                               |       | 13.20         |       |
| Shaft overhang                             |       | 11.80         |       |
| <b>Stuffing box</b>                        |       |               |       |
| Bore                                       |       | 5.197         |       |
| Depth                                      |       | 3.937         |       |
| Shaft sleeve dia.                          |       |               |       |
| Packing                                    |       | 3.947         |       |
| Mechanical seal, general                   |       | 3.750         |       |
| Mech. seal, ready-fitted (2)               |       | 3.543         |       |
| Packing size                               |       | 0.625         |       |
| No. of packing rings                       |       | 4             |       |
| Lantern ring width                         |       | 0.79          |       |
| Neck bush clearance                        |       | 0.042         |       |
| Distance to nearest obstruction            |       | 3.94          |       |
| Wear ring clearance                        |       | -             |       |
| <b>Impeller</b>                            |       |               |       |
| Front clearance (open impeller)            |       | 0.020         |       |
| Back clearance                             |       | 0.040         |       |
| Eye area (in <sup>2</sup> )                |       |               |       |
| Closed                                     |       | -             |       |
| Open                                       | 302.0 | 308.0         | 308.0 |
| Special open                               | 302.0 | 308.0         | 308.0 |
| Max. diameter solids (in)                  |       |               |       |
| Closed                                     |       | -             |       |
| Open                                       | 3.39  | 5.19          | 5.19  |
| Special open                               | 4.21  | 5.19          | 5.19  |
| Max. shaft deflection at st. box           |       | 0.002         |       |
| <b>Casing</b>                              |       |               |       |
| Type (single or dual)                      | DV    | DV            | DV    |
| Casing thickness (iron)                    | 0.95  | 0.95          | 0.95  |
| Casing thickness (steel)                   | 0.93  | 0.71          | 0.71  |
| Bearing unit weight (LBS)                  |       | 333           |       |
| HP/100 rpm (shaft SS2324)                  |       | 120           |       |

- 1) Min. L10h-life, full impeller dia., max. speed, direct coupled and 50 - 100 % BEP
- 2) Installed on the pump shaft

*PUMP E-LINE PRIMARY FINE SCREEN FEED*

|                 |                                  |
|-----------------|----------------------------------|
| SERVICE:        | B-Line Pri. Fine Screens Feed P. |
| EQUIP. No.:     | 310-1140-039 / M94287-79         |
| CUST. P.O. No.: | 445014                           |
| MODEL / SIZE:   | APT61-24 / 24x24-28              |
| API-C JOB No.:  | CAE2000 075 28                   |

# APT Process Pumps

## Shaft sealing



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Version 09 > / 960601 / en / N12559

## Gland packings

### Fitting P02

2 braids + lantern ring + 2 braids. Standard casing cover. Installed onto the shaft wearing sleeve.

### Characteristics of fitting

|   |                                                                                                                                           |
|---|-------------------------------------------------------------------------------------------------------------------------------------------|
| E | External flushing that prevents pumped liquid from precipitating in the sealing housing. Flushing liquid is mixed with the pumped liquid. |
|---|-------------------------------------------------------------------------------------------------------------------------------------------|

|                                   |                            |
|-----------------------------------|----------------------------|
| Pumped liquid                     | Impure liquids, stock, lye |
| Temperature (°F)                  | max 250                    |
| Stuffing box pressure $p_T$ (psi) | Positive or negative       |

|                   |                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Sealing waters    |                                                                                                                               |
| Connection No.    | 020                                                                                                                           |
| Size (NPT)        | 3/8 - 18                                                                                                                      |
| Quality           | External clean water, maximum particle size 0.002 in, maximum solid material content (PPM-value) 0.00027 lb/in <sup>3</sup> . |
| Flow rate (USGPM) | 0.5 - 0.8                                                                                                                     |
| Pressure (psi)    | $p_T + 7$ psi<br>min. 7 psi                                                                                                   |

### Seal size (Ø in)

| Bearing unit        |                 |                     |                     |                     |                     |
|---------------------|-----------------|---------------------|---------------------|---------------------|---------------------|
| 1                   | 2               | 3                   | 4                   | 5                   | 6                   |
| 1 5/8 x 2 3/8 x 3/8 | 2 x 2 3/4 x 3/8 | 2 3/8 x 3 3/8 x 1/2 | 2 3/4 x 3 3/4 x 1/2 | 3 1/2 x 4 3/4 x 5/8 | 3.937 x 5.198 x 5/8 |

Pressure behind the impeller can approximately be calculated from the formula

$$p_T = p_0 - 0.725 \text{ psi}$$

Where  $p_T$  = pressure behind the impeller (psi)  
 $p_0$  = inlet pressure (psi)

Atmospheric pressure used as reference pressure = 0 psi.

PUMP 3-LINE PRIMARY FINE SCREEN FEED

|                 |                                  |
|-----------------|----------------------------------|
| SERVICE:        | B Line Pri. Fine Screens Feed P. |
| EQUIP. No.:     | 310-1140-039 / M9426 79          |
| CUST. P.O. No.: | 445014                           |
| MODEL / SPEED:  | APT61-24 / 890                   |
| APL-C JOB No.:  | CAE2000 075 28                   |