

# TC Series Pump | Submittal Data

Submittal No: 301-2062 I | Model: 050314 | RPM: 1450 - 50 Hz IEC | Effective: 08/01/24 | Supersedes: 06/30/19

JOB: \_\_\_\_\_

REPRESENTATIVE: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

## PRODUCT DATA

ITEM NO. \_\_\_\_\_ MODEL NO. 050314

IMPELLER DIAMETER \_\_\_\_\_ HORSEPOWER \_\_\_\_\_

GPM \_\_\_\_\_ VOLTAGE \_\_\_\_\_

HEAD/FT \_\_\_\_\_ RPM 1450

WEIGHT \_\_\_\_\_ PUMP/MOTOR \_\_\_\_\_

## OPERATING SPECIFICATIONS

|                 | FLANGE         | PRESSURE              | TEMPERATURE   |
|-----------------|----------------|-----------------------|---------------|
| <b>STANDARD</b> | ANSI Class 125 | 175 PSIG* (1210 KPA)  | 250°F (120°C) |
| <b>OPTIONAL</b> | ANSI Class 250 | 300 PSIG** (2070 KPA) | 250°F (120°C) |

\* In accordance with ANSI Standard B16.1 Class 125

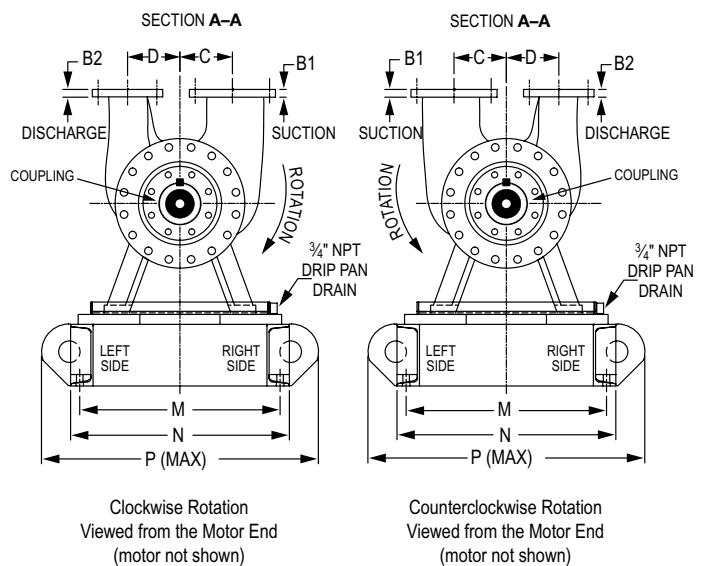
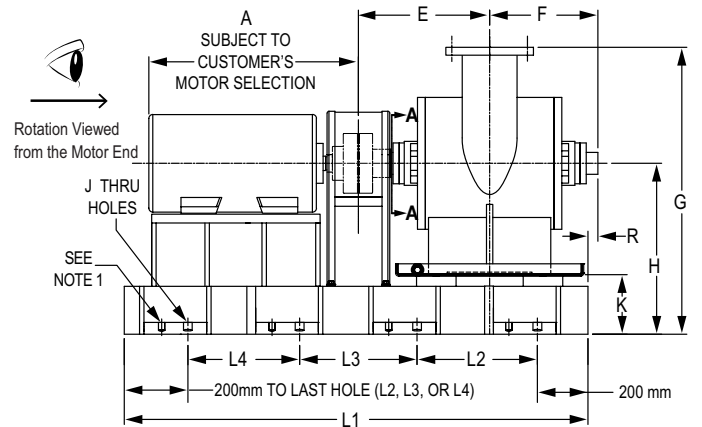
\*\* In accordance with ANSI Standard B16.1 Class 250 Dim.

## DIMENSIONS

Model No. | 050314 - Flange Size (Suction x Discharge) | 5 x 3 (127 x 76)

| MOTOR & FRAME DIMENSIONS            |                   |      |                 |      |
|-------------------------------------|-------------------|------|-----------------|------|
| KW                                  | 11                | 15   | 18.5            | 22   |
| IEC MOTOR<br>FRAME IP55             | 160M              | 160L | 180M            | 180L |
| MAX. ASSEMBLY<br>WEIGHT<br>LBS (KG) | 2300<br>(1043)    |      | 3000<br>(1361)  |      |
| A**<br>(MAX. VALUE)                 | 25.79<br>(655)    |      | 28.86<br>(733)  |      |
| J                                   | 4 X 0.79 (4 X 20) |      |                 |      |
| K                                   | 4.92 (125)        |      |                 |      |
| L1                                  | 48.03<br>(1220)   |      | 50.39<br>(1280) |      |
| L2                                  | 32.28<br>(820)    |      | 34.65<br>(880)  |      |
| L3                                  | N/A               |      |                 |      |
| L4                                  | N/A               |      |                 |      |
| M                                   | 21.69 (551)       |      |                 |      |
| N                                   | 23.23 (590)       |      |                 |      |
| P                                   | 27.56 (700)       |      |                 |      |

| PUMP DIMENSIONS |                           |    |      |    |
|-----------------|---------------------------|----|------|----|
| KW              | 11                        | 15 | 18.5 | 22 |
| B1<br>Suction   | ANSI Class 125: 0.94 (24) |    |      |    |
|                 | ANSI Class 250: 1.38 (35) |    |      |    |
| B2<br>Discharge | ANSI Class 125: 0.75 (19) |    |      |    |
|                 | ANSI Class 250: 1.10 (28) |    |      |    |
| C               | 6.30 (160)                |    |      |    |
| D               | 6.30 (160)                |    |      |    |
| E               | 16.46 (418)               |    |      |    |
| F               | 13.39 (340)               |    |      |    |
| G               | 30.31 (770)               |    |      |    |
| H               | 17.32 (440)               |    |      |    |
| R               | 2.44 (62)                 |    |      |    |



English dimensions are in inches. Metric dimensions are in millimeters. Metric data is presented in ( ).

Dimensions are subject to change without notice. Do not use for construction purposes unless certified.

\* Standard voltage is 380/415V, 50 Hz, 3 Phase.

NOTE 1: Smaller holes are for alignment. Dimensions not supplied.

\*\* Motor dimensions are approximate and vary by manufacturer and motor type.

| MATERIALS OF CONSTRUCTION | CASING                       | IMPELLER                 | WEAR RING                | SHAFT                    | SHAFT SLEEVE             | MECHANICAL SEAL              | SEAL FLUSH LINE |
|---------------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------|-----------------|
| STANDARD                  | Cast Iron ASTM A48 Class 30A | Stainless Steel AISI 304 | Stainless Steel AISI 420 | Carbon Steel AISI 1045   | Stainless Steel AISI 420 | Carbon/Silicon Carbide Viton | N/A             |
| OPTIONAL                  | N/A                          | N/A                      | N/A                      | Stainless Steel AISI 420 | N/A                      | N/A                          | Copper          |

N/A - Not Available



Model 050314

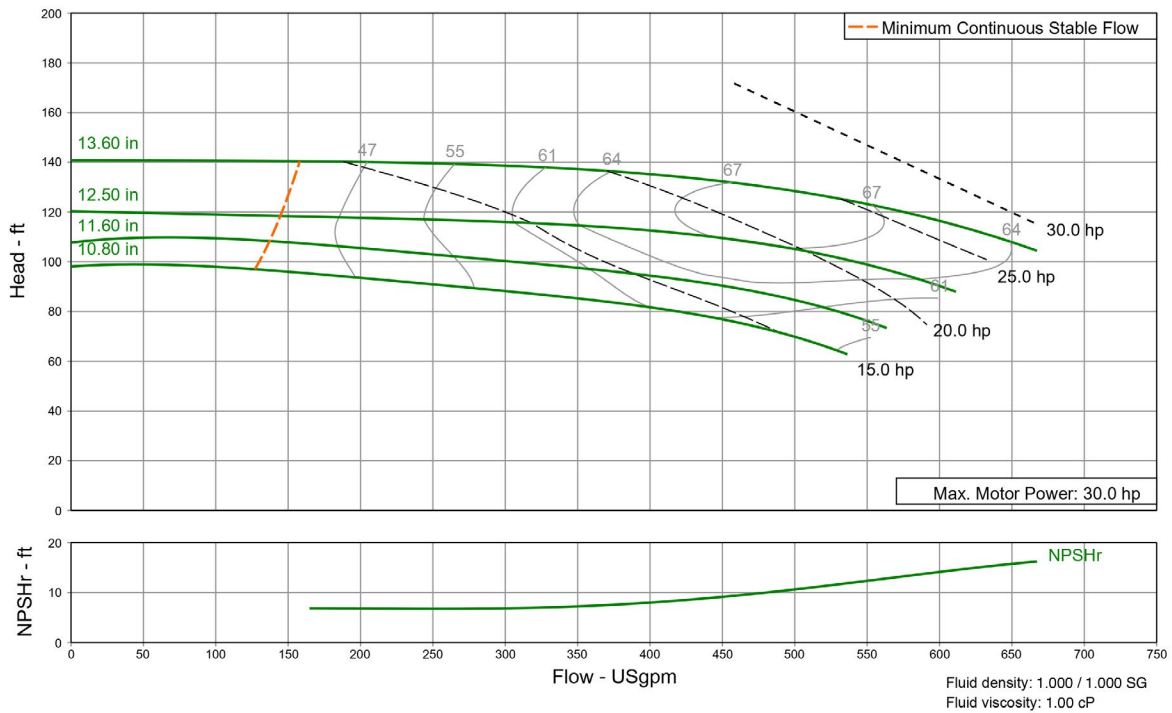
1450 RPM

Curve no. 2508

TC/TS Series

August 1, 2024

Min. Imp. Dia. 10.8"  
Size 5 X 3 X 14



## COMMENTS