

# CI Series Pump | Submittal Data

Submittal No: 301-2413D | Model: 1509D | RPM: 1450 - 50 Hz | Effective: January 27, 2020 | Supersedes: July 12, 2018

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

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

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

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

## PRODUCT DATA

ITEM NO. \_\_\_\_\_ MODEL NO. 1509D

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

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

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

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

NSF 61 CERTIFIED YES NO

## DIMENSIONS

Model No. | 1509D

Flange Size (Suction x Discharge) | 2 1/2 x 1 1/2 (64 x 38)

| HORSEPOWER |                                   | 1                          | 1.5       | 2 | 3           | 5           |
|------------|-----------------------------------|----------------------------|-----------|---|-------------|-------------|
| ODP        | MOTOR FRAME                       | 143JM                      | 145JM     |   | 182JM       | 184JM       |
|            | G MAX                             | 11.15 (283)                |           |   | 13.76 (350) | 15.26 (388) |
|            | MAXIMUM ASSEMBLY WEIGHT LBS. (KG) | 159 (72)                   |           |   | 210 (95)    |             |
| TEFC       | MOTOR FRAME                       | 143JM                      | 145JM     |   | 182JM       | 184JM       |
|            | G MAX                             | 11.15 (283)                |           |   | 13.76 (350) | 15.26 (388) |
|            | MAXIMUM ASSEMBLY WEIGHT LBS. (KG) | 159 (72)                   |           |   | 210 (95)    |             |
| A          |                                   | ANSI Class 125: 4.07 (103) |           |   |             |             |
|            |                                   | ANSI Class 250: 4.37 (111) |           |   |             |             |
| B          |                                   | ANSI Class 125: 9.0 (229)  |           |   |             |             |
|            |                                   | ANSI Class 250: 9.25 (235) |           |   |             |             |
| C (MOTOR)  |                                   | 5.5 (140)                  |           |   | 7.5 (191)   |             |
| D          |                                   | 5.94 (151)                 |           |   | 6.50 (165)  |             |
| E          |                                   | 3.50 (89)                  |           |   | 4.50 (114)  |             |
| F          |                                   | 7.09 (180)                 |           |   |             |             |
| H (PUMP)   |                                   | 9.84 (250)                 |           |   |             |             |
| J          |                                   | 3.75 (95)                  |           |   |             |             |
| K          |                                   | ANSI Class 125: 2.19 (56)  |           |   |             |             |
|            |                                   | ANSI Class 250: 2.50 (63)  |           |   |             |             |
| L          |                                   | 5.55 (141)                 |           |   | 6.19 (157)  |             |
| N (PUMP)   |                                   | 0.56 (14)                  |           |   |             |             |
| P          |                                   | 0.34 (9)                   |           |   | 0.41 (10)   |             |
| R          |                                   | 4.0 (101)                  | 5.0 (127) |   | 4.5 (114)   | 5.5 (140)   |
| S          |                                   | ANSI Class 125: 8.61 (219) |           |   |             |             |
|            |                                   | ANSI Class 250: 8.91 (226) |           |   |             |             |

| Configuration | DOE Basic Model Number | PEI Value        |                   | Energy Rating   |
|---------------|------------------------|------------------|-------------------|-----------------|
| Bare Pump     | CI1509D-4P-BP          | PEI <sub>d</sub> | 0.83 <sup>†</sup> | 17 <sup>†</sup> |
| Pump + Motor  | CI1509D-4P-PM          | PEI <sub>d</sub> | 0.83 <sup>†</sup> | 17 <sup>†</sup> |

<sup>†</sup>PEI/ER values based on 60Hz test.

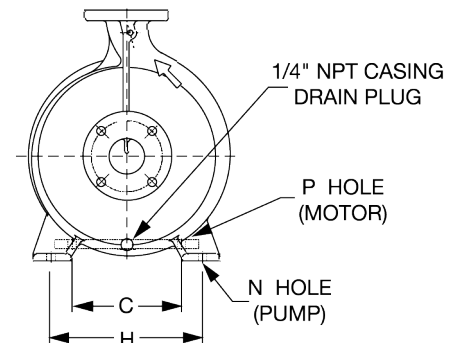
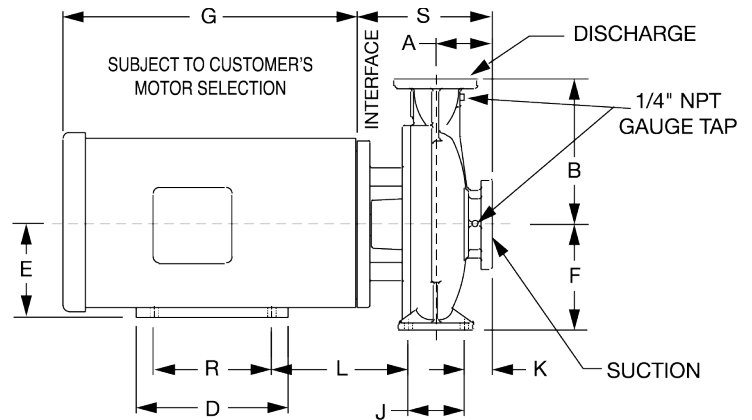
## OPERATING SPECIFICATIONS

| FLANGE         | PRESSURE              | TEMPERATURE   |
|----------------|-----------------------|---------------|
| ANSI Class 125 | 175 PSIG* (1210 KPA)  | 250°F (120°C) |
| ANSI Class 250 | 300 PSIG** (2070 KPA) | 250°F (120°C) |

Motors: All NEMA Standard (JM Frame)

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

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



| MATERIALS OF CONSTRUCTION |               |              | CASING                                    | COVER                                | IMPELLER                                | WEAR RING                   | SHAFT        | SHAFT SLEEVE                       | MECHANICAL SEAL                              | SEAL FLUSH LINE ASSEMBLY |
|---------------------------|---------------|--------------|-------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------|--------------|------------------------------------|----------------------------------------------|--------------------------|
| STANDARD CONSTRUCTION     | BRONZE FITTED | 125# FLANGE  | Cast Iron ASTM A48/A48M-03 Class 30A      | Cast Iron ASTM A48/A48M-03 Class 30A | Bronze ASTM B584 ALLOY C83600 or C84400 | N/A                         | Carbon Steel | Bronze ASTM B584-98A C92200        | Ceramic/EPT                                  | N/A                      |
|                           |               | 250# FLANGE  | Ductile Iron ASTM A536-84 Grade 65-45-12  | Cast Iron ASTM A48/A48M-03 Class 30A | Bronze ASTM B584 ALLOY C83600 or C84400 | N/A                         | Carbon Steel | Bronze ASTM B584-98A C92200        | Ceramic/EPT                                  | N/A                      |
| OPTIONAL                  |               | 125# OR 250# | N/A                                       | N/A                                  | Stainless Steel ASTM A351/A 351M-08     | Bronze ASTM B584-98A C92200 | N/A          | Stainless Steel TYPE 303 ASTM A276 | Tyngsten Carbide /EPT or Silicon-Carbide/EPT | Copper & Brass C3600     |
| STANDARD CONSTRUCTION     | NSF 61        | 125# FLANGE  | Cast Iron ASTM A48/A48M-03 Class 30A      | Cast Iron ASTM A48/A48M-03 Class 30A | Stainless Steel ASTM A351/A 351M-08     | N/A                         | Carbon Steel | Bronze ASTM B584-98A C92200        | Ceramic/EPT                                  | Copper & Brass C3600     |
|                           |               | 250# FLANGE  | Ductile Iron ASTM A536-84 Grade: 65-45-12 | Cast Iron ASTM A48/A48M-03 Class 30A | Stainless Steel ASTM A351/A 351M-08     | N/A                         | Carbon Steel | Bronze ASTM B584-98A C92200        | Ceramic/EPT                                  | Copper & Brass C3600     |
| OPTIONAL                  |               | 125# OR 250# | N/A                                       | N/A                                  | N/A                                     | Bronze ASTM B584-98A C92200 | N/A          | N/A                                | N/A                                          | N/A                      |

N/A - Not Available

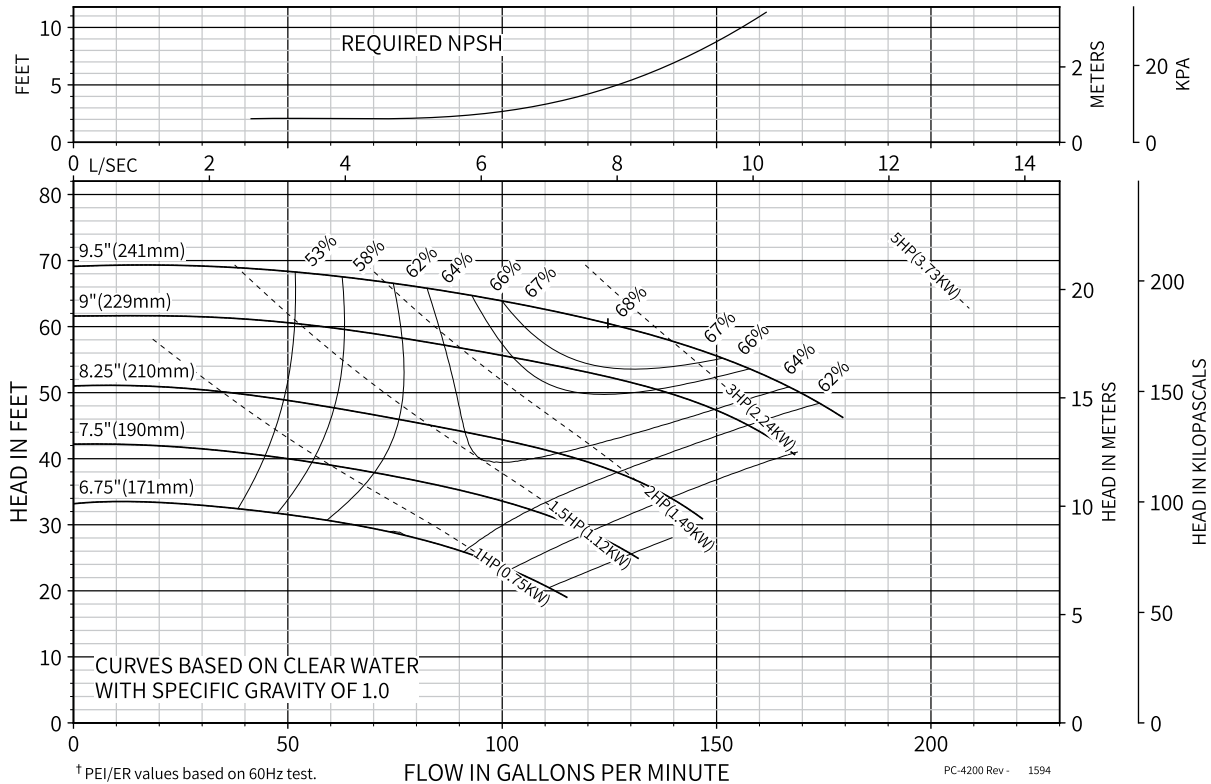


## CI Series | Model: 1509D | 1450 RPM

Curve No. 4200 | Min. Imp. Dia. 6.75" | Size 2.5x1.5x9.5 | February 03, 2020

Comfort Solutions®  
A Taco Family Company

Energy Efficiency Rating: DOE Basic Model Number: CI1509D-4P-PM  
Pump & Motor:  $PE_{CL}: 0.83^{\dagger}$  |  $ER_{CL}: 17^{\dagger}$



## COMMENTS