

# FI Series Pump | Submittal Data

Submittal No: 301-2116D | Model: 2509D | RPM: 2900 - 50 Hz | Effective: January 27, 2020 | Supersedes: April 25, 2019

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

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

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

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

## PRODUCT DATA

ITEM NO. \_\_\_\_\_ MODEL NO. 2509D

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

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

HEAD/FT \_\_\_\_\_ RPM 2900

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

NSF 61 CERTIFIED YES NO

## DIMENSIONS

Model No. | 2509D

Flange Size (Suction x Discharge) | 3 x 2 1/2 (76 x 64)

| HORSEPOWER |                                   | 15                          |             | 20          | 25          | 30          | 40          |
|------------|-----------------------------------|-----------------------------|-------------|-------------|-------------|-------------|-------------|
| ODP        | MOTOR FRAME                       | 215T                        |             | 254T        | 256T        | 284TS       | 286TS       |
|            | G MAX                             | 19.08 (485)                 |             | 22.57 (573) | 22.57 (573) | 23.69 (602) | 23.69 (602) |
|            | MAXIMUM ASSEMBLY WEIGHT LBS. (KG) | 453 (205)                   |             | 710 (322)   | 710 (322)   | 675 (306)   | 675 (306)   |
| TEFC       | MOTOR FRAME                       |                             | 254T        | 256T        | 284TS       | 286TS       | 324TS       |
|            | G MAX                             |                             | 23.16 (588) | 23.16 (588) | 24.83 (631) | 24.83 (631) | 28.91 (734) |
|            | MAXIMUM ASSEMBLY WEIGHT LBS. (KG) |                             | 710 (322)   | 710 (322)   | 675 (306)   | 675 (306)   | 820 (372)   |
| A          |                                   | ANSI Class 125: 4.72 (120)  |             |             |             |             |             |
|            |                                   | ANSI Class 250: 4.98 (126)  |             |             |             |             |             |
| B          |                                   | ANSI Class 125: 10.00 (254) |             |             |             |             |             |
|            |                                   | ANSI Class 250: 10.31 (262) |             |             |             |             |             |
| C          | 16.18 (411)                       | 19.17 (487)                 |             |             |             |             |             |
| D          | 41.5 (1054)                       | 50.0 (127)                  |             |             |             |             |             |
| E          | ANSI Class 125: 1.05 (27)         | ANSI Class 125: 0.96 (24)   |             |             |             |             |             |
|            | ANSI Class 250: 0.79 (20)         | ANSI Class 250: 0.69 (18)   |             |             |             |             |             |
| F          | 11.28 (286)                       |                             |             |             |             |             |             |
| J          | ANSI Class 125: 23.71 (602)       |                             |             |             |             |             |             |
|            | ANSI Class 250: 23.97             |                             |             |             |             |             |             |
| K          | 14.68 (373)                       | 17.67 (449)                 |             |             |             |             |             |
| N          | 2.00 (51)                         |                             |             |             |             |             |             |
| P          | 37.5 (953)                        | 46.0 (1168)                 |             |             |             |             |             |

| Configuration | DOE Basic Model Number | PEI Value        |       | Energy Rating |
|---------------|------------------------|------------------|-------|---------------|
| Bare Pump     | FI2509D-2P-BP          | PEI <sub>d</sub> | 0.90† | 10†           |
| Pump + Motor  | FI2509D-2P-PM          | PEI <sub>d</sub> | 0.90† | 10†           |

†PEI/ER values based on 60Hz test.

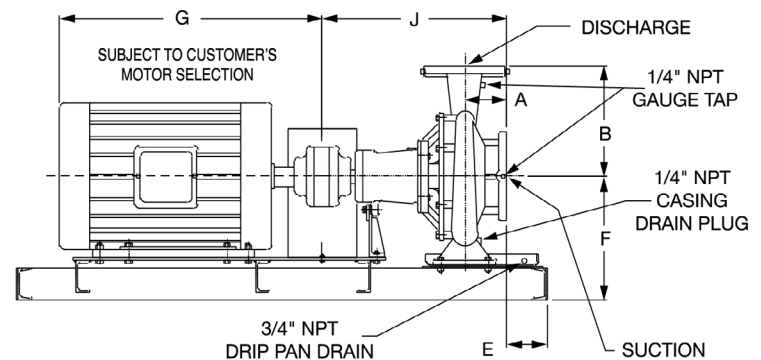
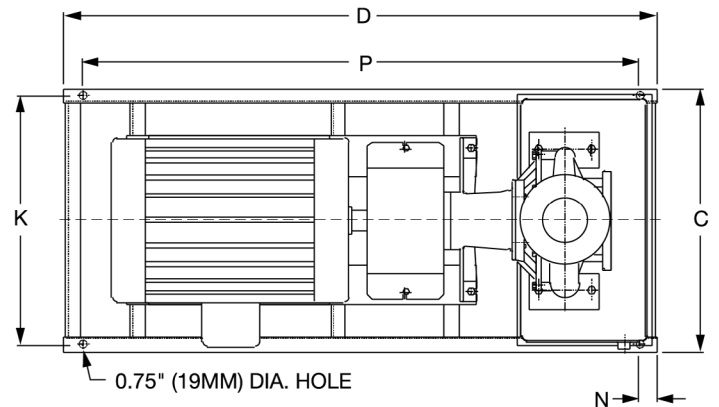
## OPERATING SPECIFICATIONS

| 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 (T Frame)

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

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



English dimensions are in inches. Metric dimensions are in millimeters.  
Metric data is presented in ( ). Do not use for construction purposes unless certified.

| 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                         | Stainless Steel TYPE 416™ ASTM A582 | 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                         | Stainless Steel TYPE 416™ ASTM A582 | 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                         | Stainless Steel TYPE 416™ ASTM A582 | 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                         | Stainless Steel TYPE 416™ ASTM A582 | 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

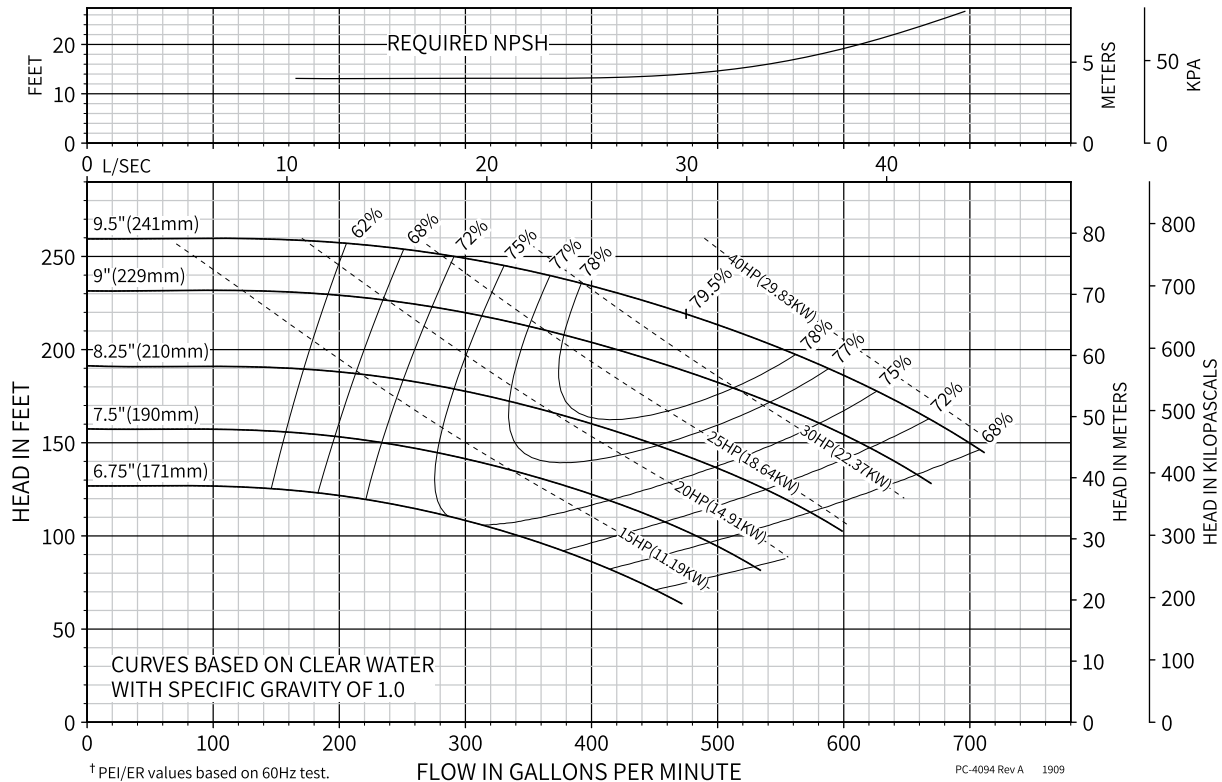


## FI Series | Model: 2509D | 2900 RPM

Curve No. 4094 | Min. Imp. Dia. 6.75" | Size 3x2.5x9.5 | February 12, 2020

Comfort Solutions®  
A Taco Family Company

**Energy Efficiency Rating:** DOE Basic Model Number: FI2509D-2P-PM  
Pump & Motor: PEI<sub>CL</sub>: 0.9<sup>†</sup> | ER<sub>CL</sub>: 10<sup>†</sup>



## COMMENTS