

# FI Series Pump | Submittal Data

Submittal No: 301-2115D | Model: 2509D | RPM: 3500 - 60 Hz | Effective: January 27, 2020 | Supersedes: January 31, 2019

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

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

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

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

## PRODUCT DATA

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

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

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

HEAD/FT \_\_\_\_\_ RPM 3500

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 |                                            | 25                          | 30             | 40             | 50             | 60             |                           | 75             |
|------------|--------------------------------------------|-----------------------------|----------------|----------------|----------------|----------------|---------------------------|----------------|
| ODP        | MOTOR FRAME                                | 256T                        | 284TS          | 286TS          | 324TS          | 326TS          |                           | 364TS          |
|            | G MAX                                      | 22.57<br>(573)              | 23.69<br>(602) | 23.69<br>(602) | 26.19<br>(665) | 26.19<br>(665) |                           | 27.71<br>(704) |
|            | MAXIMUM<br>ASSEMBLY<br>WEIGHT<br>LBS. (KG) | 710 (322)                   | 675 (306)      | 675 (306)      | 1,006<br>(456) | 1,006<br>(456) |                           | 1,414<br>(641) |
| TEFC       | MOTOR FRAME                                | 284TS                       | 286TS          | 324TS          | 326TS          |                | 364TS                     | 365TS          |
|            | G MAX                                      | 24.83<br>(631)              | 24.83<br>(631) | 28.91<br>(734) | 28.91<br>(734) |                | 31.49<br>(800)            | 31.49<br>(800) |
|            | MAXIMUM<br>ASSEMBLY<br>WEIGHT<br>LBS. (KG) | 675 (306)                   | 675 (306)      | 1,006<br>(456) | 1,006<br>(456) |                | 1,414<br>(641)            | 1,414<br>(641) |
| 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          |                                            | 19.17 (487)                 |                |                |                |                | 21.17 (538)               |                |
| D          |                                            | 50.0 (127)                  |                |                |                |                | 56.0 (1422)               |                |
| E          |                                            | ANSI Class 125: 0.96 (24)   |                |                |                |                | ANSI Class 125: 1.05 (27) |                |
|            |                                            | ANSI Class 250: 0.69 (18)   |                |                |                |                | ANSI Class 250: 0.79 (20) |                |
| F          |                                            | 11.28 (286)                 |                |                |                |                |                           |                |
| J          |                                            | ANSI Class 125: 23.71 (602) |                |                |                |                |                           |                |
|            |                                            | ANSI Class 250: 23.97 (609) |                |                |                |                |                           |                |
| K          |                                            | 17.67 (449)                 |                |                |                |                | 19.68 (500)               |                |
| N          |                                            | 2.00 (51)                   |                |                |                |                |                           |                |
| P          |                                            | 46.0 (1168)                 |                |                |                |                | 52.0 (1321)               |                |

| 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            |

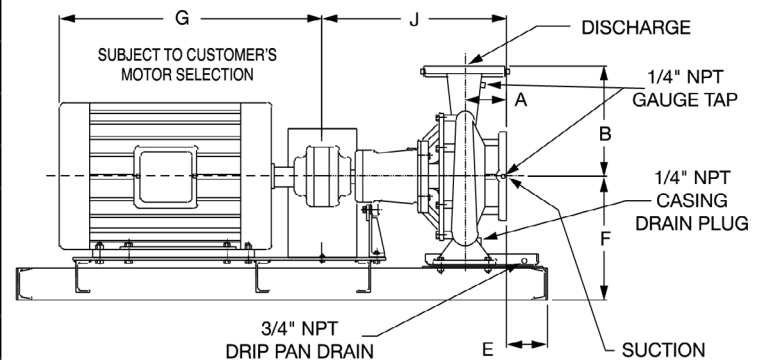
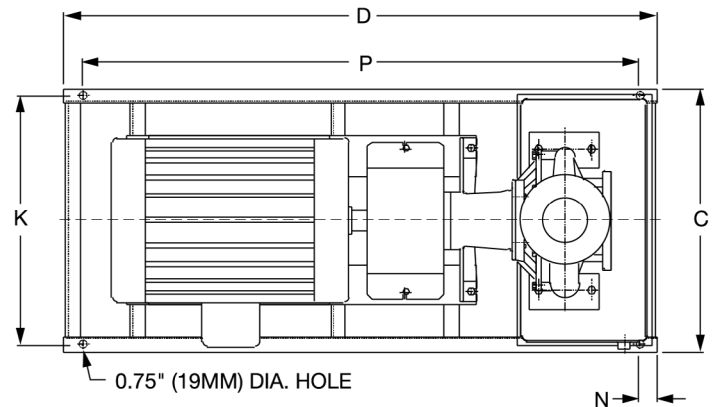
## OPERATING SPECIFICATIONS

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

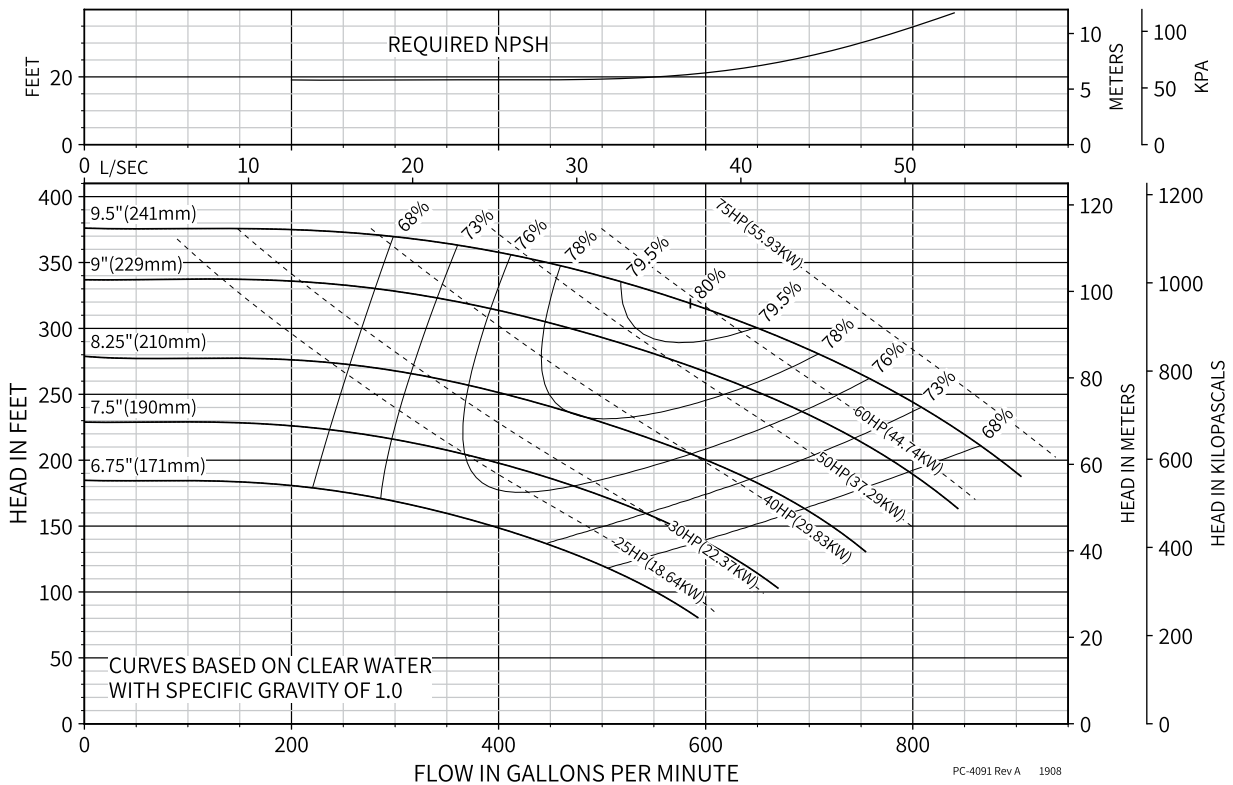
N/A - Not Available



## FI Series | Model: 2509D | 3500 RPM

Curve No. 4091 | Min. Imp. Dia. 6.75" | Size 3x2.5x9.5 | February 12, 2020

**Energy Efficiency Rating:** DOE Basic Model Number: FI2509D-2P-PM  
Pump & Motor:  $PE_{CL}$ : 0.9 |  $ER_{CL}$ : 10



## COMMENTS