

# KS Series Pump | Submittal Data

## Vertical Split Coupled Pumps

Submittal No: 301-1218D | Model: 2009D | RPM: 2900 - 50 Hz | Effective: October 31, 2019 | Supersedes: New

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

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

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

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

### PRODUCT DATA

ITEM NO. \_\_\_\_\_ MODEL NO. 2009D

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

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

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

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

NSF 61 CERTIFIED YES NO SUPPORT STAND OPTION YES NO  
(Ductile Iron ASTM A536-84 Grade 65-45-12)

### DIMENSIONS

Model No. | 2009D

Flange Size (Suction x Discharge) | 2 x 2 (51 x 51)

| HORSEPOWER                                   | 7.5                         | 10              | 15              | 20              | 25              | 30              |
|----------------------------------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| MOTOR FRAME TEFC                             | 213TC                       | 215TC           | 254TC           | 256TC           | 284TC           | 286TC           |
| MOTOR FRAME ODP                              | 184TC                       | 213TC           | 215TC           | 254TC           | 256TC           | 284TSC          |
| WEIGHT WITHOUT<br>OPTIONAL STAND<br>LBS (KG) | 340.71<br>(155)             | 356.11<br>(162) | 517.17<br>(235) | 539.17<br>(245) | 702.3<br>(319)  | 689.1<br>(313)  |
| WEIGHT WITH<br>OPTIONAL STAND<br>LBS (KG)    | 361.58<br>(164)             | 376.98<br>(171) | 538.03<br>(244) | 560.03<br>(254) | 723.16<br>(328) | 709.96<br>(322) |
| FLANGE SIZE ASA                              | 2 (51)                      |                 |                 |                 |                 |                 |
| A*                                           | ANSI CLASS 125: 9 (229)     |                 |                 |                 |                 |                 |
|                                              | ANSI CLASS 250: 9.25 (235)  |                 |                 |                 |                 |                 |
| B*                                           | ANSI CLASS 125: 10 (254)    |                 |                 |                 |                 |                 |
|                                              | ANSI CLASS 250: 10.25 (260) |                 |                 |                 |                 |                 |
| C                                            | 4.87 (124)                  |                 |                 |                 |                 |                 |
| D                                            | 16.85 (428)                 |                 | 20.97 (533)     |                 | 21.22 (539)     |                 |
| E MAX                                        | 18.14 (461)                 |                 | 20.03 (509)     |                 | 23.38 (594)     |                 |
| F                                            | 6.16 (156)                  |                 |                 |                 |                 |                 |
| G                                            | 6.72 (171)                  |                 |                 |                 |                 |                 |
| J DIA                                        | 10.28 (261)                 |                 | 13.26 (337)     |                 | 14.78 (375)     |                 |
| K                                            | 4                           |                 |                 |                 |                 |                 |
| L                                            | 3/8-16 UNC-2B               |                 |                 |                 |                 |                 |
| M                                            | 2.5 (64)                    |                 |                 |                 |                 |                 |
| N                                            | 6 (152)                     |                 |                 |                 |                 |                 |
| P                                            | 9.38 (238)                  |                 |                 |                 |                 |                 |
| Q                                            | 0.63 (16)                   |                 |                 |                 |                 |                 |
| R                                            | 7.75 (197)                  |                 |                 |                 |                 |                 |

| Configuration | DOE Basic Model Number | PEI Value        |       | Energy Rating |
|---------------|------------------------|------------------|-------|---------------|
| Bare Pump     | KS2009D-2P-BP          | PEI <sub>d</sub> | 0.81† | 19†           |
| Pump + Motor  | KS2009D-2P-PM          | PEI <sub>d</sub> | 0.81† | 19†           |

†PEI/ER values based on 60Hz test.

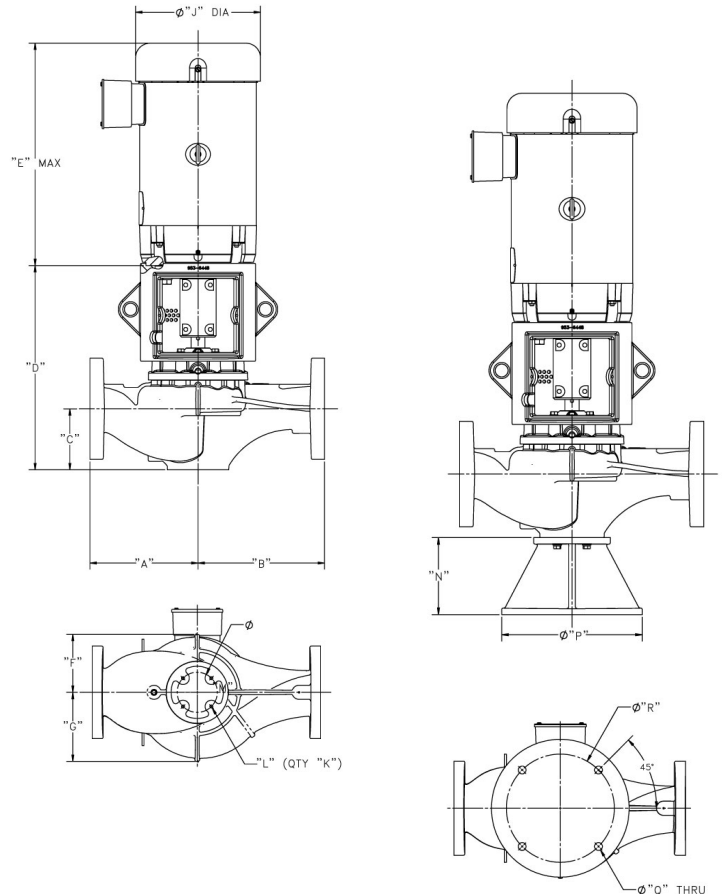
### OPERATING SPECIFICATIONS

| 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 (TC Frame)

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

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



\*A & B Dimensions apply for all pump sizes.

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                                 | COUPLING               | MECHANICAL SEAL                             | SEAL FLUSH LINE ASSEMBLY | SUPPORT STAND                            |
|---------------------------|---------------|--------------|-------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------|---------------------------------------|------------------------|---------------------------------------------|--------------------------|------------------------------------------|
| 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 | Aluminum Alloy 6061-T6 | Ceramic/EPT                                 | Copper & Brass C3600     | 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 | Aluminum Alloy 6061-T6 | Ceramic/EPT                                 | Copper & Brass C3600     | N/A                                      |
| OPTIONAL                  |               | 125# OR 250# | N/A                                       | N/A                                  | Stainless Steel ASTM A351/A 351M-08     | Bronze ASTM B584-98A C92200 | N/A                                   | N/A                    | Tungsten Carbide/EPT or Silicon-Carbide/EPT | N/A                      | Ductile Iron ASTM A536-84 Grade 65-45-12 |
| 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 | Aluminum Alloy 6061-T6 | Ceramic/EPT                                 | Copper & Brass C3600     | N/A                                      |
|                           |               | 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 | Aluminum Alloy 6061-T6 | Ceramic/EPT                                 | Copper & Brass C3600     | N/A                                      |
| OPTIONAL                  |               | 125# OR 250# | N/A                                       | N/A                                  | N/A                                     | Bronze ASTM B584-98A C92200 | N/A                                   | N/A                    | N/A                                         | N/A                      | Ductile Iron ASTM A536-84 Grade 65-45-12 |

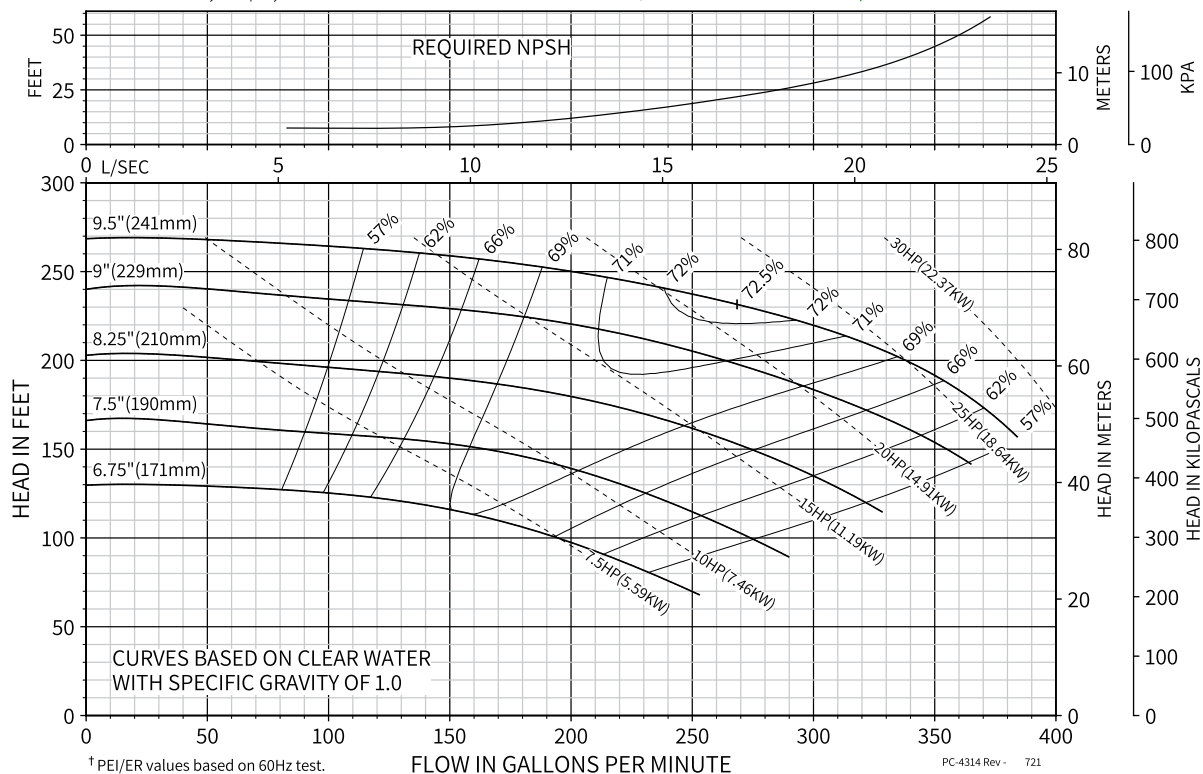
N/A - Not Available



## KS Series | Model: 2009D | 2900 RPM

Curve No. 4314 | Min. Imp. Dia. 6.75" | Size 2x2x9.5 | October 21, 2019

**Energy Efficiency Rating:** DOE Basic Model Number: KS2009D-2P-PM  
Pump & Motor:  $PE_{CL}$ : 0.81<sup>†</sup> |  $ER_{CL}$ : 19<sup>†</sup>



## COMMENTS