

# SKS Series Pump | Submittal Data

Submittal No: 301-S416 | Model: SKS2009D | RPM: 3500 | HP: 50HP | Effective: May 6, 2020 | Supersedes: NEW

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

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

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

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

## PRODUCT DATA

ITEM NO. \_\_\_\_\_

DOE BASIC MODEL NO. \_\_\_\_\_ SKS2009D-A-2P-PD

MODEL NO. \_\_\_\_\_ VOLTAGE \_\_\_\_\_

PEI<sub>VL</sub> \_\_\_\_\_ 0.41 \_\_\_\_\_ HI ENERGY RATING \_\_\_\_\_ 59

IMPELLER DIA. \_\_\_\_\_ WEIGHT \_\_\_\_\_

GPM \_\_\_\_\_ PUMP/MOTOR \_\_\_\_\_

HEAD/FT \_\_\_\_\_ FREQUENCY \_\_\_\_\_

RPM 3500 HP 50 PHASE \_\_\_\_\_

NSF 61 CERTIFIED\* YES NO SUPPORT STAND OPTION YES NO  
\*Not configurable as a standard option; please contact your account manager to configure.  
 (Ductile Iron ASTM A536-84 Grade 65-45-12)

## 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) |

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

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

## DIMENSIONS

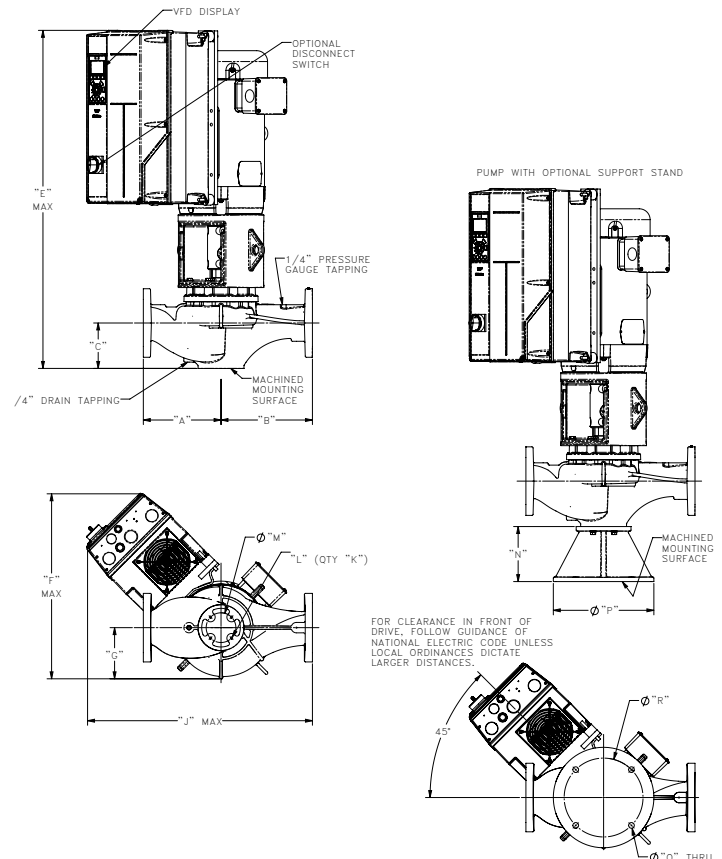
Model No. | 2009D  
 Flange Size (Suction x Discharge) | 2 x 2 (51 x 51)

|                                        |                             |
|----------------------------------------|-----------------------------|
| HORSEPOWER                             | 50                          |
| MOTOR FRAME TEFC                       | 326TSC                      |
| MOTOR FRAME ODP                        | 324TSC                      |
| WEIGHT WITHOUT OPTIONAL STAND LBS (KG) | 1020.11 (463)               |
| WEIGHT WITH OPTIONAL STAND LBS (KG)    | 1040.97 (472)               |
| 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)                  |
| E MAX                                  | 53.57 (1361)                |
| F MAX                                  | 27.82 (707)                 |
| G                                      | 6.72 (171)                  |
| J MAX                                  | 31.1 (790)                  |
| 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)                  |

\*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.



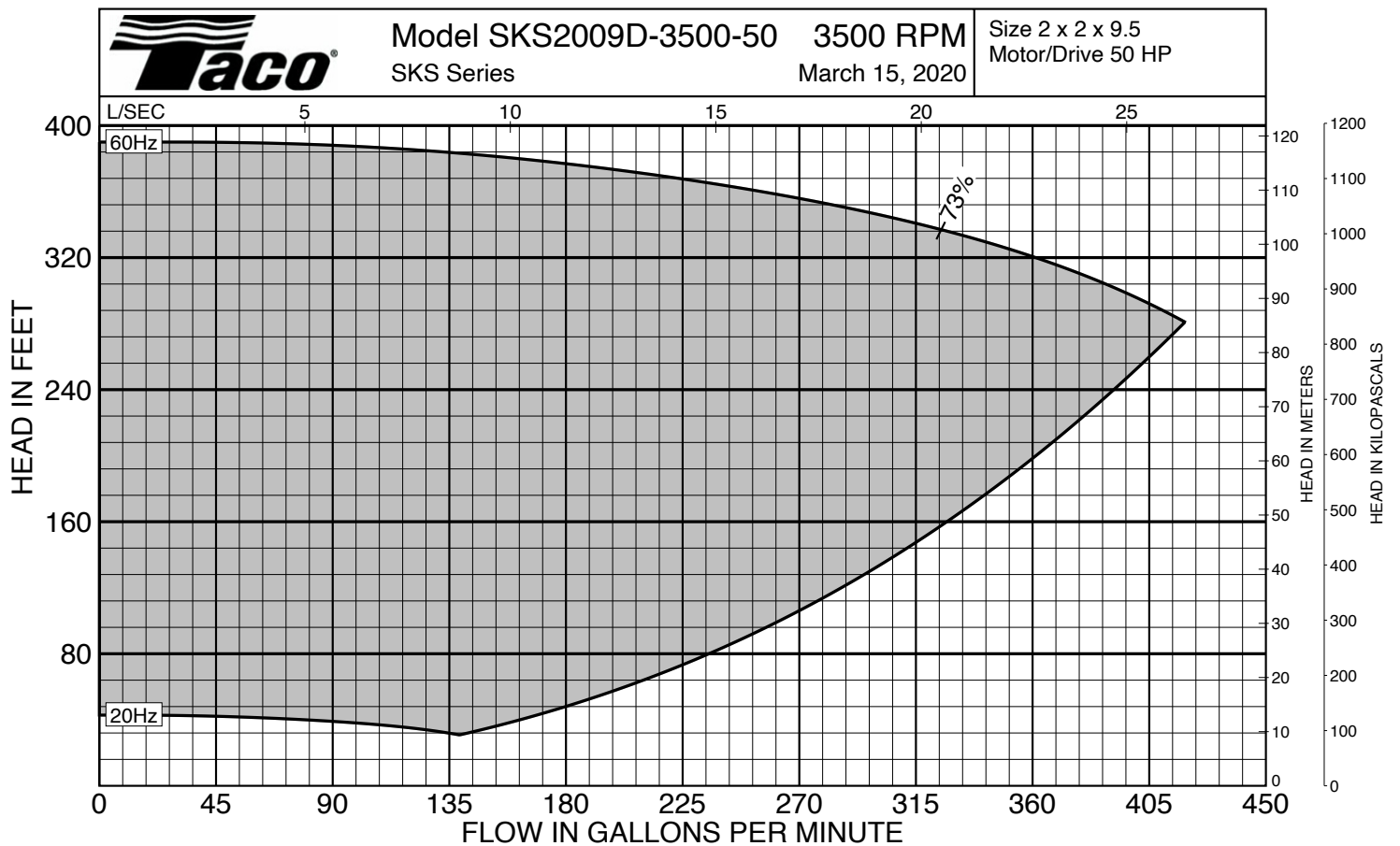
| MATERIALS OF CONSTRUCTION |               |              | CASING                                    | COVER                                | IMPELLER                                | WEAR RING                   | SHAFT                                 | COUPLING               | MECHANICAL SEAL                             | 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

DRIVE DATA

|                            |                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------|
| PROTOCOLS (Standard)       | BACnet, Modbus RTU, N2 Metasys, FLN Apogee, FC Protocol                                                                |
| PROTOCOLS (Optional)       | LonWorks®    DeviceNet    Profibus                                                                                     |
| ENCLOSURE                  | NEMA Type 12 / IP55    NEMA Type 4X / IP66                                                                             |
| I/O (Standard)             | 6 Digital Inputs / 2 Digital Outputs<br>1 Analog Current Output / 2 Analog Inputs<br>2 Pulse Inputs<br>2 Form C Relays |
| ADDITIONAL CONTROL OPTIONS | None    General Purpose I/O    Relay Card<br>24VDC Supply    Analog I/O                                                |
| DISCONNECT SWITCH          | Mechanical    Fused                                                                                                    |
| EMC/RFI CONTROL            | Intergated filter designed to meet EN61800-3                                                                           |
| HARMONIC SUPPRESSION       | Dual DC-link chokes (Equivalent: 5% AC line reactor)<br>Supporting IEEE 519-1992 requirements                          |
| COOLING                    | Fan-cooled through back channel                                                                                        |
| AMBIENT TEMPERATURE        | -10°C to 45°C up to 1000 meters above sea level<br>-14°F to 113°F up to 3300 feet above sea level                      |

COMMENTS



Curves based on Clear Water @ 60F with a Specific Gravity of 1.0