SKV Series Pump | Submittal Data

Submittal No: 301-S175 | **Model:** SKV5007D | **RPM:** 3500 | **HP:** 40HP | **Effective:** July 24, 2020 | **Supersedes:** January 27, 2020

JOB: _____ **REPRESENTATIVE:** _____

ENGINEER: _____ **CONTRACTOR:** _____

PRODUCT DATA

ITEM NO. _____ **DOE BASIC MODEL NO.** SKV5007D-A-2P-PD

MODEL NO. _____ **VOLTAGE** _____ **PEI$_{VL}$** 0.45 **HI ENERGY RATING** 55

IMPELLER DIA. _____ **WEIGHT** _____

GPM _____ **PUMP/MOTOR** _____

HEAD/FT _____ **FREQUENCY** _____

RPM 3500 **HP** 40 **PHASE** _____

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

OPERATING SPECIFICATIONS

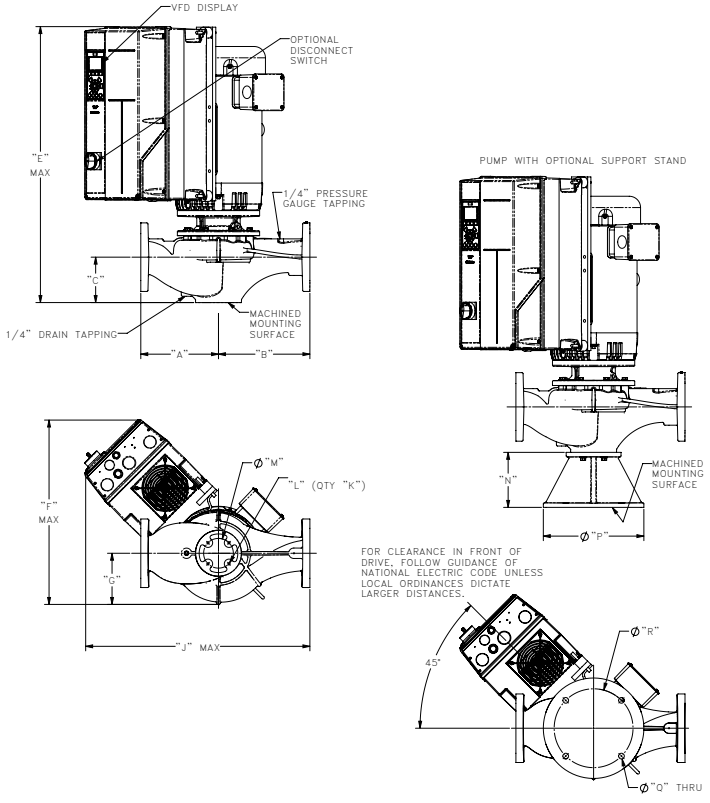
FLANGE	PRESSURE	TEMPERATURE
ANSI Class 125	175 PSIG* (1210 KPA)	250°F (120°C)
ANSI Class 250	300 PSIG** (2070 KPA)	250°F (120°C)

* In accordance with ANSI Standard B16.1 Class 125
** In accordance with ANSI Standard B16.1 Class 250

DIMENSIONS

Model No. | 5007D
Flange Size (Suction x Discharge) | 5 x 5 (127 x 127)

HORSEPOWER	40
MOTOR FRAME TEFC	324JM
MOTOR FRAME ODP	286JM
WEIGHT WITHOUT OPTIONAL STAND LBS (KG)	1023.9 (464)
WEIGHT WITH OPTIONAL STAND LBS (KG)	1096 (497)
FLANGE SIZE ASA	5 (127)
A*	ANSI CLASS 125: 12 (305)
	ANSI CLASS 250: 12.44 (316)
B*	ANSI CLASS 125: 12 (305)
	ANSI CLASS 250: 12.44 (316)
C	7.25 (184)
E MAX	42.26 (1073)
F MAX	27.58 (701)
G	7.72 (196)
J MAX	31.44 (799)
K	4
L	3/8-16 UNC-2B
M	6 (152)
N	6.75 (171)
P	14.38 (365)
Q	0.75 (19)
R	11.88 (302)



*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.

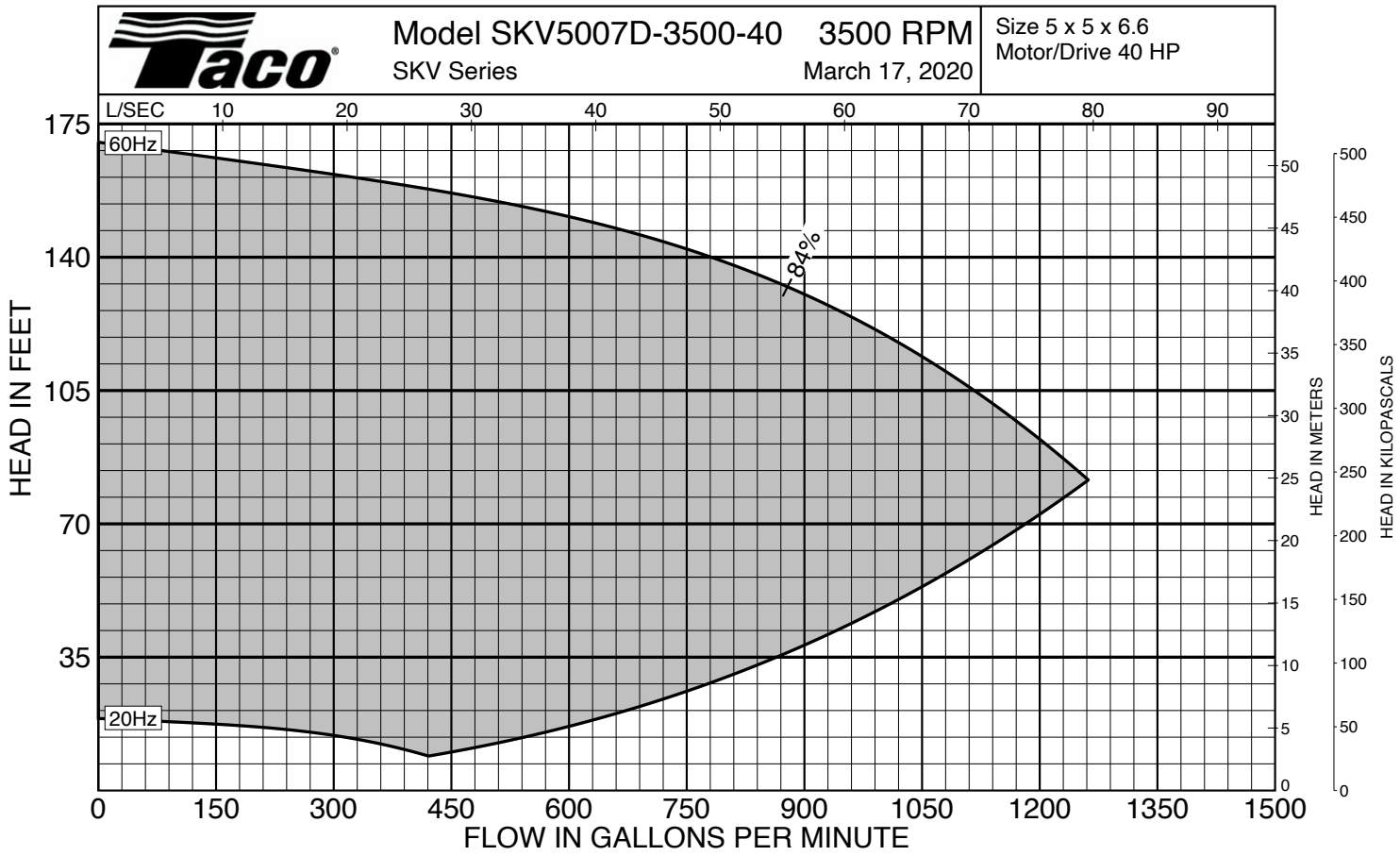
MATERIALS OF CONSTRUCTION			CASING	COVER	IMPELLER	WEAR RING	SHAFT	SHAFT SLEEVE	MECHANICAL SEAL	SEAL FLUSH LINE ASSEMBLY	SUPPORT STAND
STANDARD CONSTRUCTION	BRONZE FITTED	125# FLANGE	Cast Iron ASTM A48/A48M-03 Class 30A	Cast Iron ASTM A48/A48M-03 Class 30A	Bronze ASTM B584 ALLOY C83600 or C84400	N/A	Carbon Steel	Bronze ASTM B584-98A C92200	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	Carbon Steel	Bronze ASTM B584-98A C92200	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	Stainless Steel TYPE 303 ASTM A276	Tungsten Carbide/EPT or Silicon-Carbide/EPT	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 1 Analog Current Output / 2 Analog Inputs 2 Pulse Inputs 2 Form C Relays
ADDITIONAL CONTROL OPTIONS	☐ None ☐ General Purpose I/O ☐ Relay Card ☐ 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) 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 -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