



Submittal Data Information

SKV Series SelfSensing Vertical Close Coupled Pumps

301-2177-B

EFFECTIVE: May 05, 2023

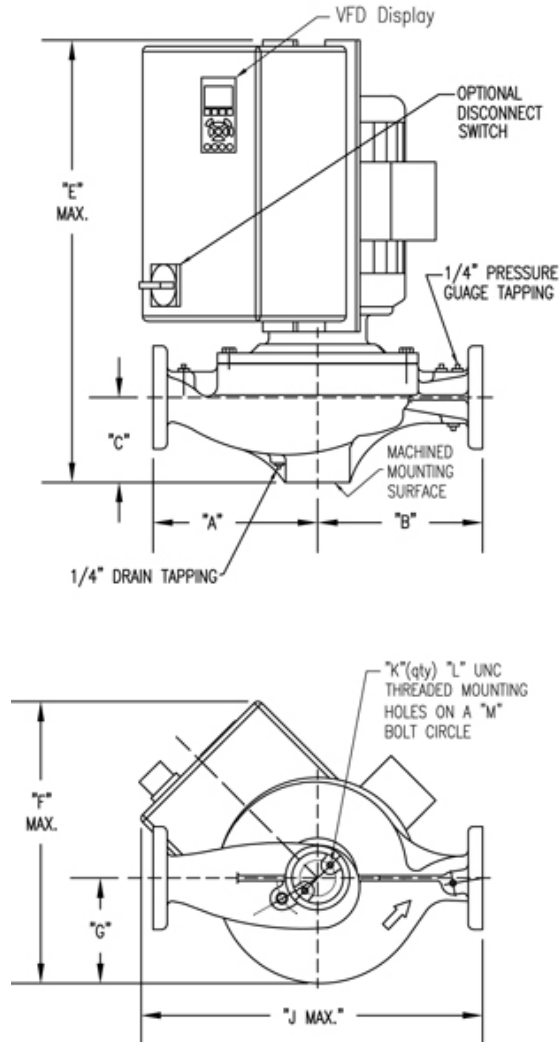
SUPERSEDES: January 27, 2020

MODEL SKV1509-1760-2

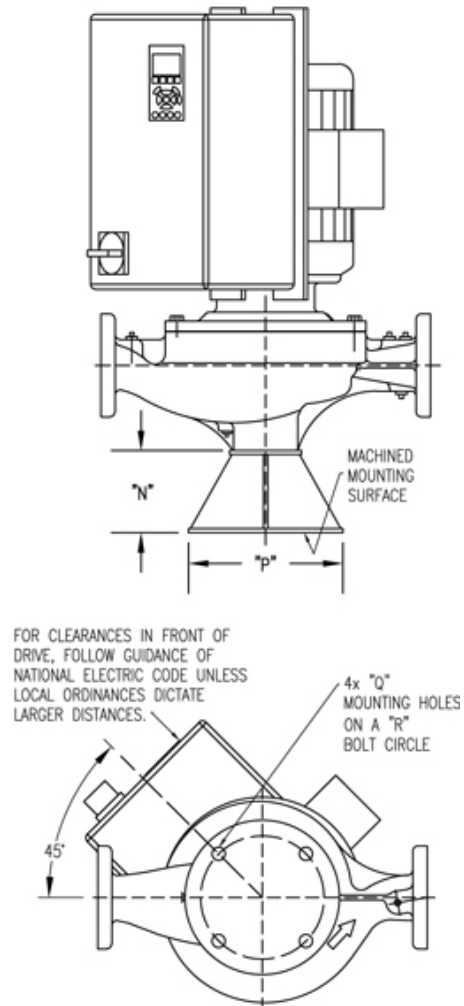
JOB: _____ ENGINEER: _____

CONTRACTOR: _____ REP: _____

ITEM NO.	MODEL NO.	IMPELLER DIA.		G.P.M.	HEAD/FT	H.P.	ELEC. CHAR.
Configuration	DOE Basic Model Number	PEI Value		Energy Rating			
Pump + Motor + Drive	SKV1509A-A-4P-PD	PEI _{vi}	0.46	54			



PUMP WITH OPTIONAL SUPPORT STAND



DIMENSIONS (Dimensions are for both NEMA 12 & NEMA 4X)

*A & B Dimensions apply for all pump sizes.

Model No.	Conn.	Motor Frame	HP 1760 RPM	Flange Size (ASA)	A*	B*	C	E MAX	F MAX	G	J MAX	K	L	M	N	P	Q	R
1509-2	1.5 x 1.5 (38 x 38)	145JM	2	1.5 (38)	8.00 (203) ANSI # 125 8.31 (211) ANSI # 250	8.00 (203) ANSI # 125 8.31 (211) ANSI # 250	4.49 (114)	32.19 (818)	22.72 (577)	6.22 (158)	24.81 (642)	2	3/8-16	1.75 (44)	6.00 (152)	7.50 (191)	0.63 (16)	6.00 (152)

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

	BRONZE FITTED			ALL IRON		
	Standard Pump Construction		Optional	Standard Pump Construction		Optional
	125# Flange	250# Flange	125# or 250#	125# Flange	250# Flange	125# or 250#
Casing	Cast Iron ASTM A48/A48M-03 Class 30A	Ductile Iron ASTM A536-84 Grade: 65-45-12	N/A	Cast Iron ASTM A48/A48M-03 Class 30A	Ductile Iron ASTM A536-84 Grade: 65-45-12	N/A
Impeller	Bronze ASTM B584-98A C87500	Bronze ASTM B584-98A C87500	N/A	Cast Iron ASTM A48/A48M-03 Class 30A	Cast Iron ASTM A48/A48M-03 Class 30A	N/A
Wear Ring	N/A	N/A	Bronze ASTM B584-98A C92200	N/A	N/A	N/A
Shaft	Carbon Steel	Carbon Steel	Stainless Steel AISI 416 ASTM A582	Carbon Steel	Carbon Steel	Stainless Steel AISI 416 ASTM A582
Shaft Sleeve	Bronze ASTM B584-98A C92200	Bronze ASTM B584-98A C92200	Stainless Steel TYPE 303 ASTM A276	Stainless Steel TYPE 303 ASTM A276	Stainless Steel TYPE 303 ASTM A276	N/A
Mechanical Seal	Ceramic / EPT	Ceramic / EPT	Tungsten Car- bide/EPT	Ceramic / EPT	Ceramic / EPT	Tungsten Car- bide/EPT
Seal Flush Line	Copper	Copper	CF	Stainless Steel	Stainless Steel	CF
Support Stand	N/A	N/A	Ductile Iron ASTM A536-84 Grade: 65-45-12	N/A	N/A	Ductile Iron ASTM A536-84 Grade: 65-45-12

CF - Consult Factory

NA - Not Available

OPERATING SPECIFICATIONS

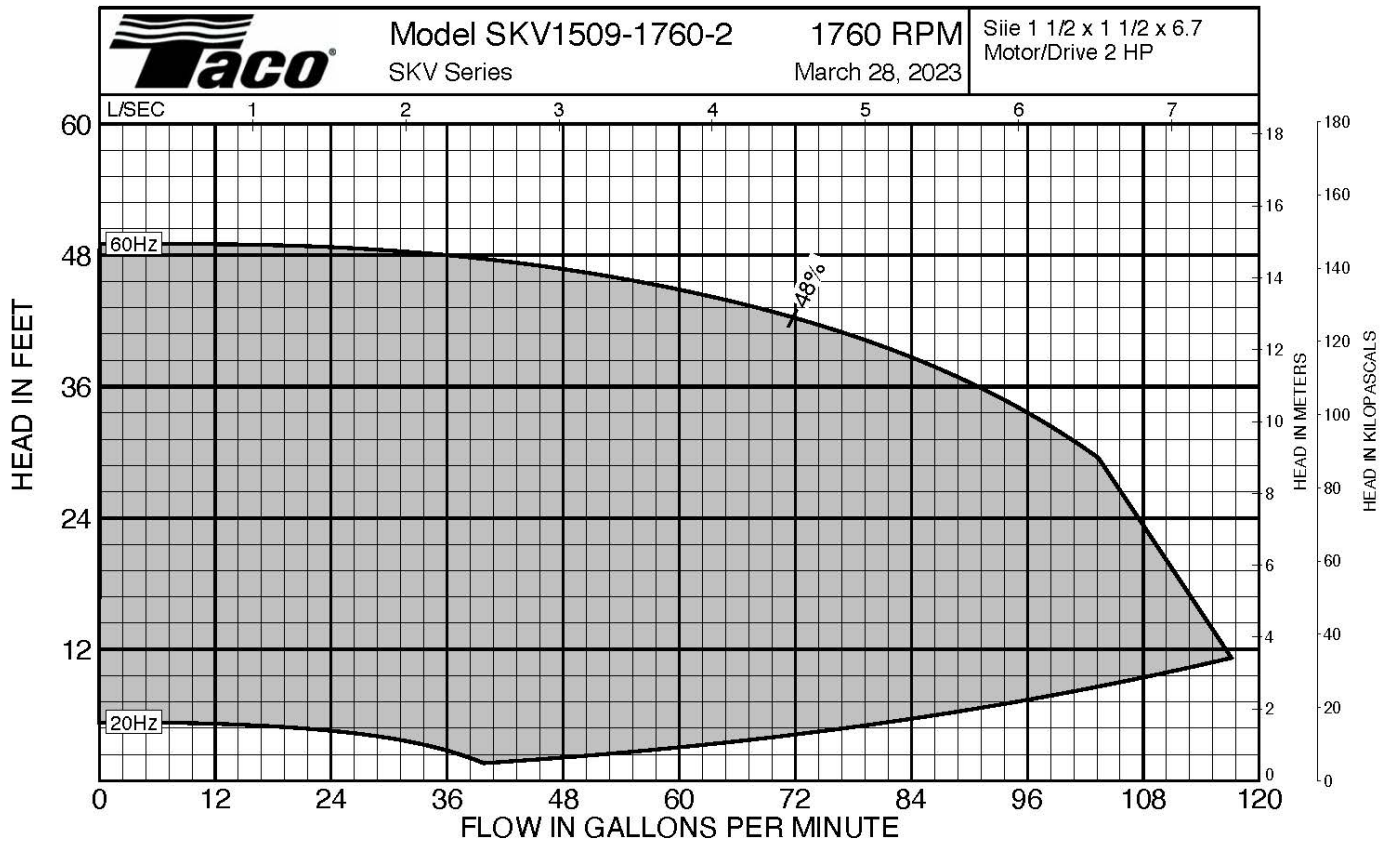
	Standard		Optional
Flange	ANSI Class 125	ANSI Class 250	
Pressure	175 PSIG* (1210 KPA)	300 PSIG** (2070 KPA)	CF
Temperature	250°F (120°C)	250°F (120°C)	CF

* In accordance with ANSI Standard B16.1 Class 125

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

MAXIMUM ASSEMBLY WEIGHT

Motor Frame	Weight without Optional Stand Lbs (Kg)	Weight with Optional Stand Lbs (Kg)
143JM - 145JM	230 (104)	240 (109)



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

COMMENTS: _____

SPECIFICATIONS:

MOTOR DESIGN DATA	
HP	
Volts	
Frequency	Hz
Phase	

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
EMI/RFI Control	Integrated 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

CONTROL CONNECTIONS	
Analog input (follower signal)	2; selectable voltage or current, direct and inverse acting
Digital inputs (programmable)	6 (2 can be used as digital outputs)
Analog outputs (programmable)	1; 0/4 to 20 mA
Relay outputs (programmable)	2 standard Form C 240 V AC, 2 A; 1 or 3 additional optional
Auxiliary voltage	+24 V DC, maximum 200 mA
Communication port	1 RS485, 1 USB=



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