



SSPC

ENCLOSED IMPELLER CENTRIFUGAL PUMP



AMERICAN STAINLESS PUMPS, INC.

Stainless Steel Pumps for the Commercial Marketplace

The pump model SSPC is the Enclosed

impeller version of our original six inch stainless pump. Enclosed impeller centrifugal pumps offer higher efficiency than similar open impeller pumps, and are designed for pumping cleaner liquids without high levels of solids. The SSPC is well suited for cleaning, cooling, circulation and transfer applications.





Characteristics

The SSPC is a single stage, centerline discharge, enclosed impeller centrifugal pump. The pump is fabricated of 304 Stainless Steel and close coupled to an electric motor. The SSPC relies upon a mechanical seal to prevent leakage around the motor shaft, and an o-ring to seal the casing to the sealplate. Seal and o-ring materials are available to suit most applications. A 1/8" NPT drain is plugged at the bottom of the casing. A number of mounting configurations are available for ease of installation.

Advantages

The SSPC was designed to provide users the benefits of stainless steel at the price of a cast iron pump. Our suction and discharge nozzles are machined from stainless pipe and provide reliable and strong leak free connections. The pump casing is built to support the weight of the pump and motor in vertical mounting if desired, as well as to allow air to easily vent from the pump. Both open and enclosed impellers can be interchanged in the same SSPC casing.

Specifications

- Flows to 200 gal/min and Heads up to 130 feet.
- Pressure capabilities up to 120 psig.
- Temperatures to 250 F.
- Female NPT threaded Suction and dicharge nozzles.
- Size 1: 1.0" x 1.25"
- Size 2: 1.5" x 2.0"
- ½ to 5.0 horsepower motors. Service in both 60 and 50-Hz.
- Mechanical Seal faces in carbon vs ceramic, carbon vs silicon carbide and silicon carbide vs silicon carbide, with elastomers in Buna N, Viton and EPR

Optionally Available

- Sanitary suction and discharge fittings.
- Mounting bases
- Custom Features! Contact factory for support.





Catalog Number Nomenclature

C 1 56 30 B 2 T 1 X Sample code for a model SSPC, size 1x1.25

with a 5.75" diameter impeller, 0.30" Vane height (at 4.38" diameter),

Carbon/Ceramic/Buna Type 6 mechanical seal,

with a 2 HP, TEFC, 1/60/115-230V motor, and with a special construction code letter.

1st Symbol	Pump Model	F = FSP: Closed Imp, 304 SS, 5" case, threaded connections (F0=Open Imp)
		S = SSP: Open Impeller, 304SS Pump, 6 inch case, threaded connections
		C = SSPC: Closed Impeller, 304SS Pump, 6 inch case, threaded connections
		D = 7SP: 304SS, 7 inch case, threaded connection

2nd Symbol	Size Code	1 = 1.0" x 1.25" NPT	(Note, 0 is for FSP w/ open imp. and size 1 nozzles)
	Disch. x Suct.	2 = 1.5" x 2.0" NPT (SSF	Only)
	Disch. x Suct.	3 = 1.0" x 1.25" NPT (7S	SP Only)
	Disch. x Suct.	4 = 1.5" 3A sanitary con	nections

3rd & 4th Symbol	Impeller Diameter	Digits indicate impeller diameter in inches, and eighths of an inch.						
		Examples: 43 = 4 and 3/8 = 4.38", 56 = 5 and 6/8 = 5.75"						

5th & 6th Symbol	Impeller Vane	Two digits indicate the impeller vane height at 4.38" diameter, as indicated on						
	Height (at a	erformance curve. Ex: 25 indicates a vane height of 0.250 inch at 4.38".						
	reference ' diameter	(Note: if the impeller diameter is larger than 4.38", the vane height at the outside						
of 4.38")		diameter will be smaller than the size code.)						

7th Symbol	Mechanical Seal	Type 16 w/ cup m	ount sea	it.	T-16 w/ o-ring mou	ınt seat
	Type & Materials	B = Car/Cer/Buna	Stock	(Std.)		
Material Index		E = Car/Cer/EPR	Stock	1		
Material Format:		V= Car/Cer/Viton	Stock	ĺ	L = Car/SiC/Buna	
Rotating Face/Stationa	ary Face/Elastomer	4= Car/SiC/Viton	Stock		M= Car/SiC/EPR	Stock
Car = Carbon		5= Car/SiC/EPR	Stock		N = Car/SiC/Viton	
Cer = Ceramic		6= SiC/SiC/Buna	Stock		P = SiC/SiC/Buna	Stock
SiC = Silicon Carbide		7= SiC/SiC/EPR	Stock		R = SiC/SiC/EPR	Stock
		8= SiC/SiC/Viton	Stock		T = SiC/SiC/Viton	Stock
		X = Special				
	Note: Standard case	and impeller o-ring	material	will matcl	h seal elastomer as	selected a

8th Symbol	Motor HP	A = 1/3 HP	1 = 1 HP	3 = 3 HP
		B = 1/2 HP	E = 1.5 HP	5 = 5 HP
		C = 3/4 HP	2 = 2 HP	7 = 7.5HP (non-stock)

9th Symbol	Motor Enclosure	D = Dripproof	X = Explosion Proof	V = TENV
		T = TEFC	W = Washdown Duty	S= Stainless Steel Motor

10th Symbol	Motor Power	Power Rating	3500 RPM	1750 RPM	2900 RPM
	Details	1/60/115-230V	1	Α	
		1/60/230V	2	В	
		3/60/208V	8		
		3/60/230-460V	3	С	
		3/60/460V	4	D	
		3/60/575V	5	Е	
		1/50 or 1/60 (dual)	V	G	V
		3/50 or 3/60 (dual)	S	U	S
		Special	Χ	Χ	Χ
		1/50/110-220V			W
		1/50/220V			Υ
		3/50/380V	_		Z

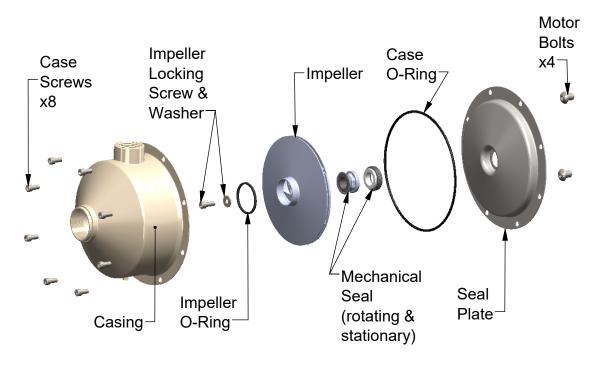
11th Symbol & Up	Special Construction Codes:	= Stainless Steel Base (no symbol)
	Consult factory for special	F = Footed Motor
	pricing. May indicate a	S = Motor Shaft is 300SS
	restricted OEM code.	X = Special - Consult factory with serial number
		W = welded impeller (no braze)
		V = VFD capable

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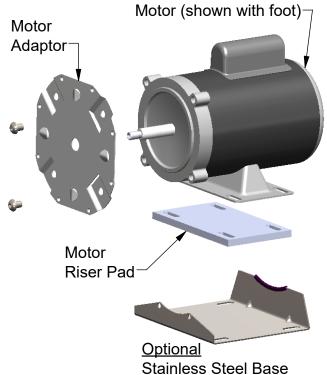
Rev. Date

4/8/2020

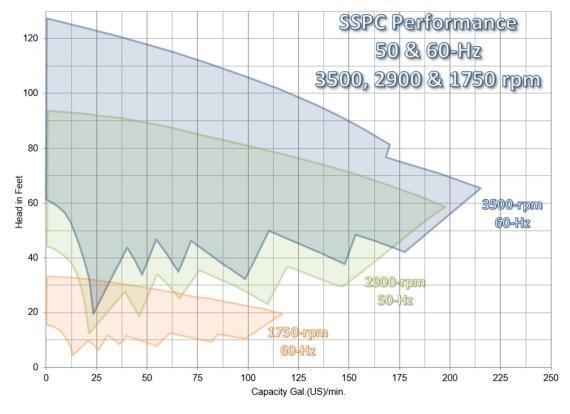


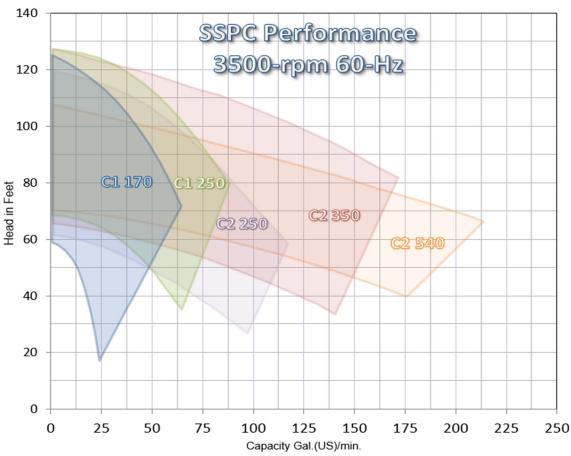


Part	Qty	Material	Options
Casing	1	304 SS	Two sizes avail.
Impeller	1	304 SS	11 sizes avail.
Mechanical Seal	1	Varies	See Seal Options
Seal Plate	1	304 SS	
Case O-Ring	1	Buna Std.	Viton & EPR
Impeller O-Ring	1	Buna Std.	Viton & EPR
Motor Adaptor	1	304 SS	
Case Screws	8	18-8	
Motor Bolts	4	18-8	
Impeller Screw & Washer	1 ea.	18-8	For 3-phase & Exp.P Motors
S.S. Base Plate	1 (Opt.)	304 SS	
Motor Riser Pad	1	PVC	Std. W/ Footed Motors
Motor	1	S.S. Shaft	See Motor Options



for motors without a mounting foot.

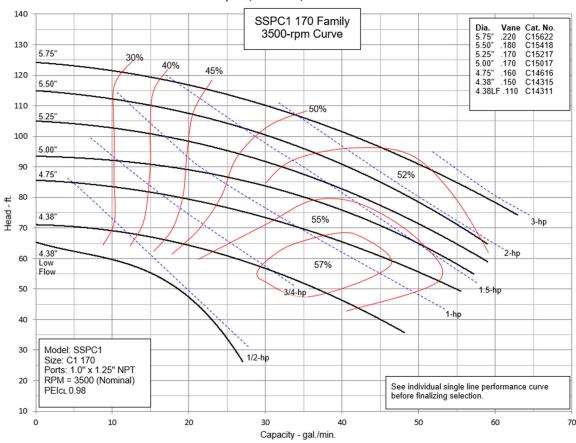


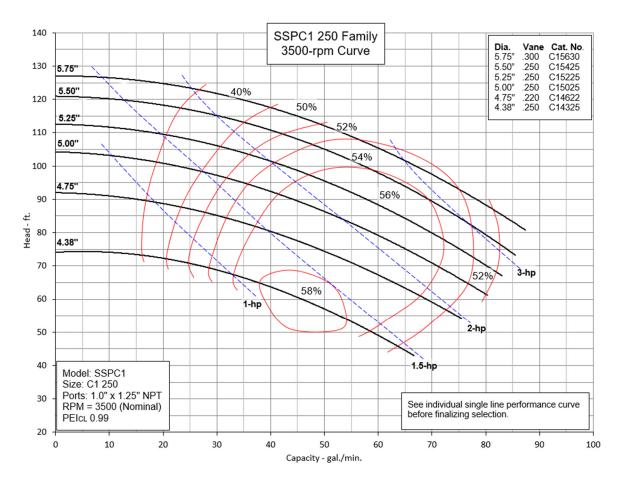


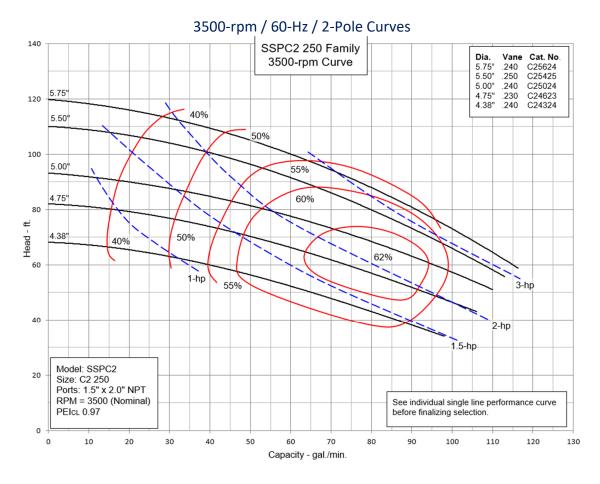
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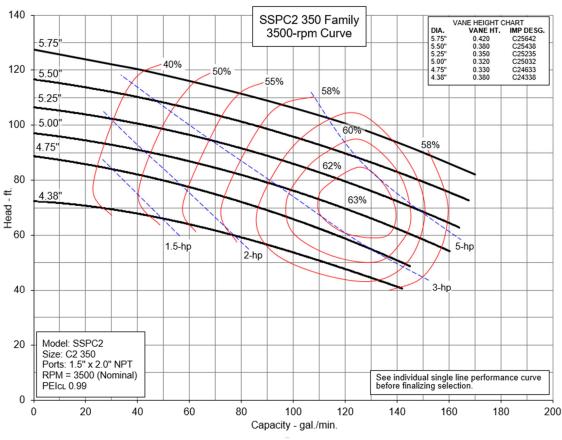


3500-rpm / 60-Hz / 2-Pole Curves

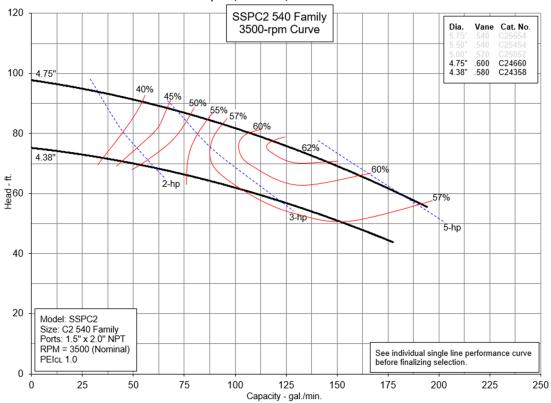




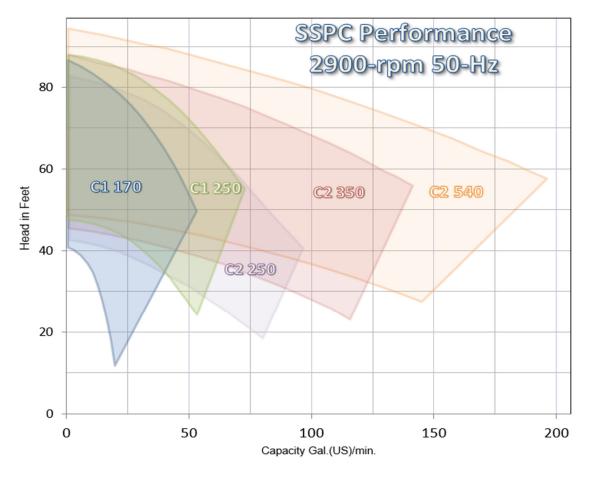


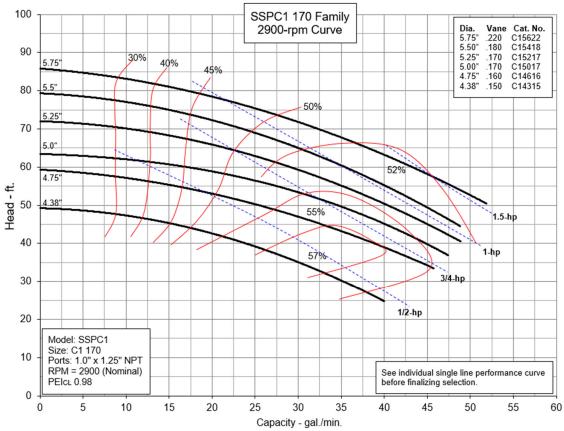






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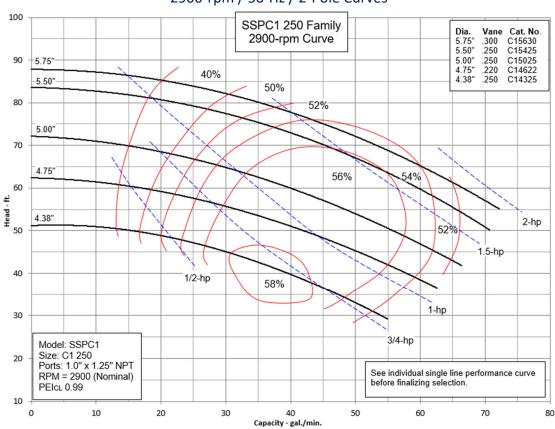


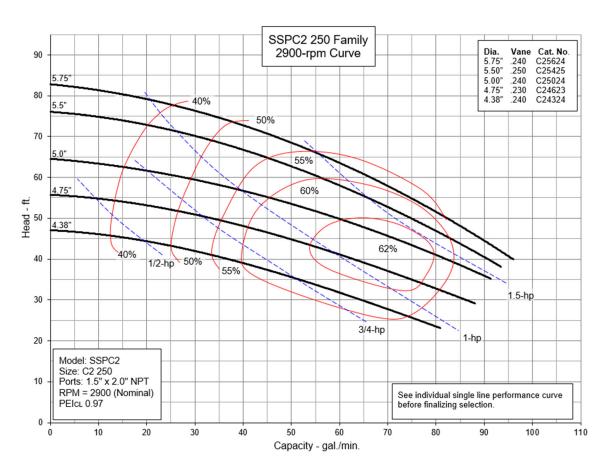


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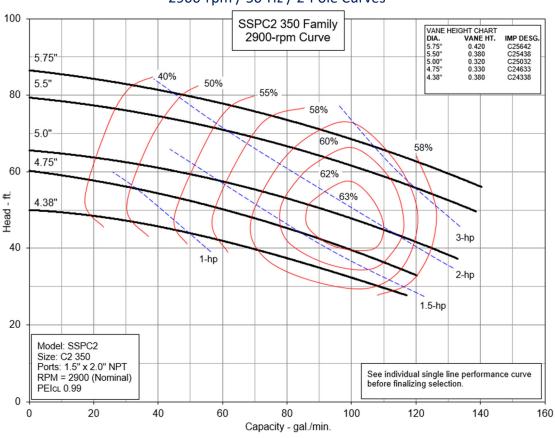


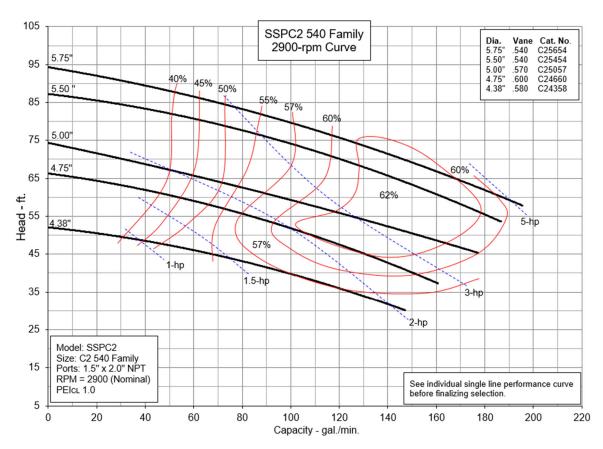
2900-rpm / 50-Hz / 2-Pole Curves

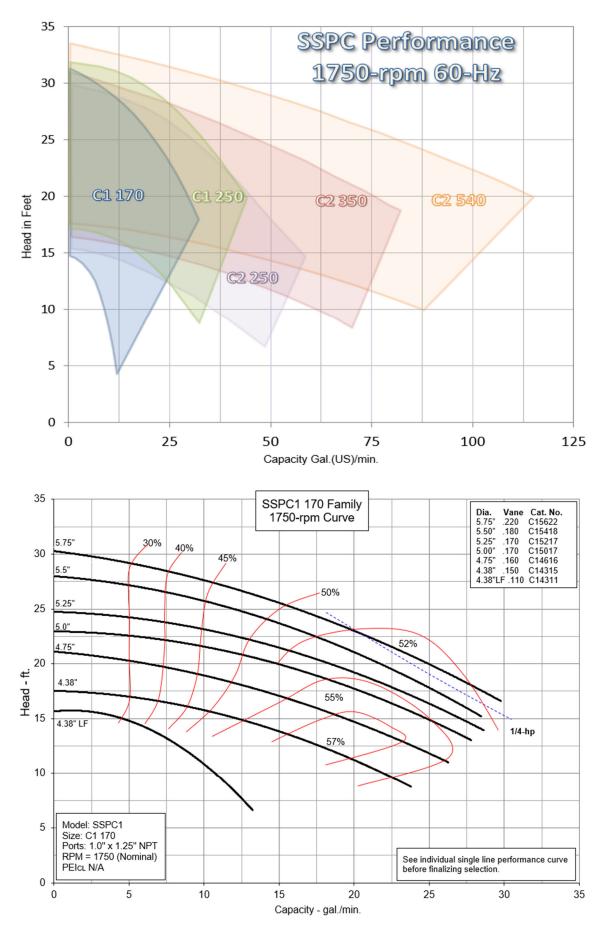






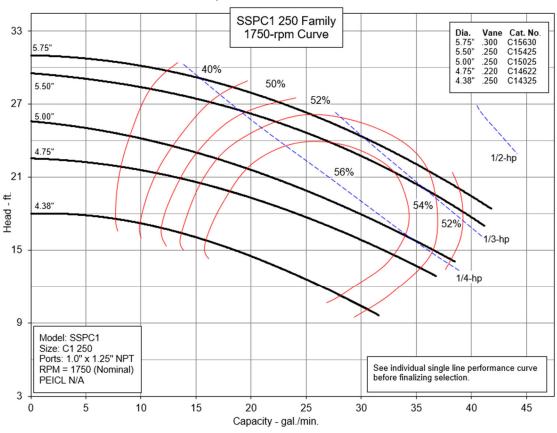


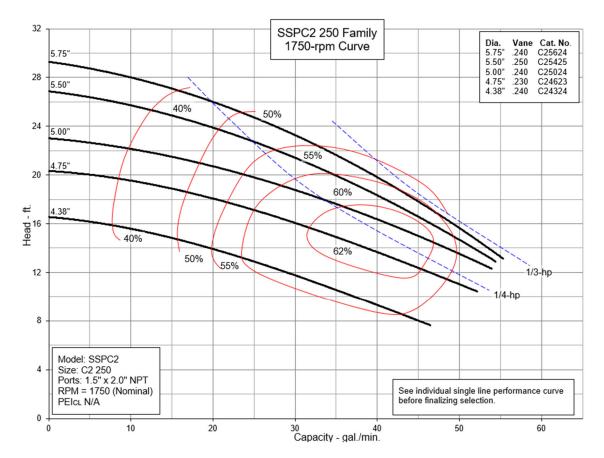






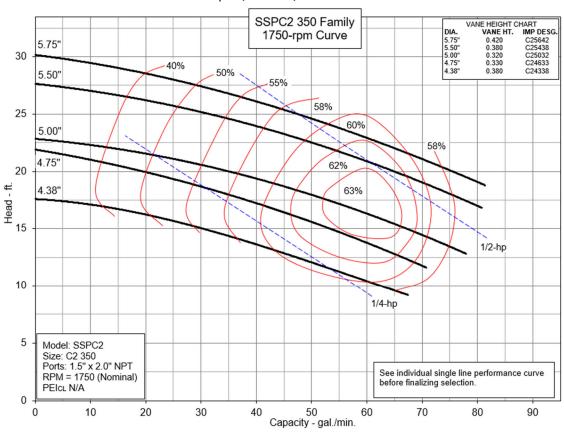
1750-rpm / 60-Hz / 4-Pole Curves

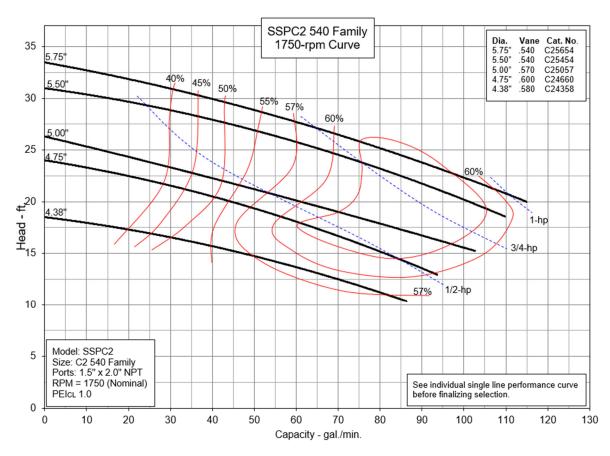






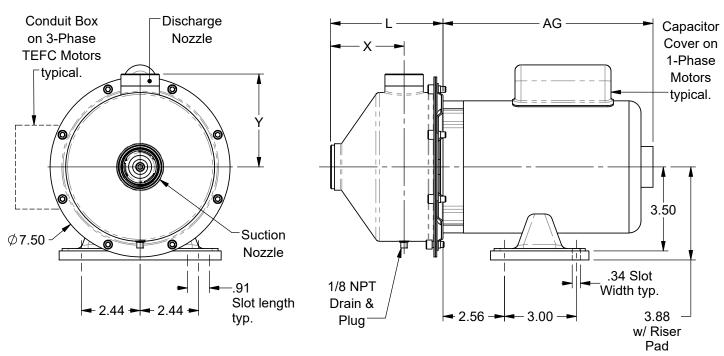
1750-rpm / 60-Hz / 4-Pole Curves







SSP & SSPC Pumps with ODP & TEFC **Footed Motors**



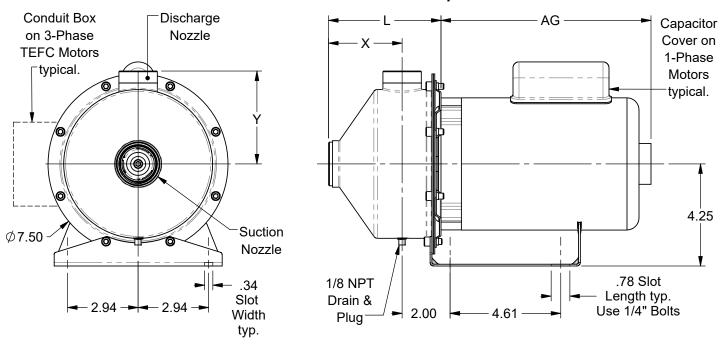
									Ship Wgt.	AG	AG	Ship Wgt.
							AG	AG	ODP	TEFC	TEFC	TEFC
Size	Suction	Discharge	L	Х	Υ	Motor HP	ODP 1Ø	ODP 3Ø	1Ø//3Ø	1Ø	3Ø	1Ø//3Ø
						1/2	9.1	8.3	32 // 28	9.3	12.1	31 // 28
						3/4	9.6	9.6	35 // 29	9.8	12.0	38 // 29
1SSP/C	1 25 NPT	25 NPT 1.0 NPT	4.7	3.1	3.9	1.0	9.8	8.7	37 // 30	10.0	11.6	40 // 30
100170	1.20141		4.7	0.1		1.5	10.3	9.1	42 // 32	10.5	13.6	46 // 43
						2.0	10.3	9.5	43 // 36	10.8	14.4	48 // 49
						3.0	10.8	10.3	46 // 42	11.3	15.6	55 // 57
						1.0	9.8	8.7	37 // 31	10.0	11.6	40 // 31
					4.5	1.5	10.3	9.1	42 // 33	10.5	13.6	46 // 44
2SSP/C	2.0 NPT	1.5 NPT	4.3	2.7		2.0	10.3	9.5	46 // 37	10.8	14.4	48 // 50
						3.0	10.8	10.3	46 // 43	11.3	15.6	55 // 58
						5.0	12.1	11.4	64 // 57	NA	13.6	NA // 54

All dimensions in inches ± 1/16". Shipment weight includes packaging.

^{*}Dimensions may vary by motor manufacturer or motor enclosure. Ideally, weights and dimensions listed are the largest for each motor horsepower size likely to be encountered. More detailed "Certified for Construction" drawings are available upon request.



SSP & SSPC Pumps with ODP & TEFC Stainless Steel Pump Base



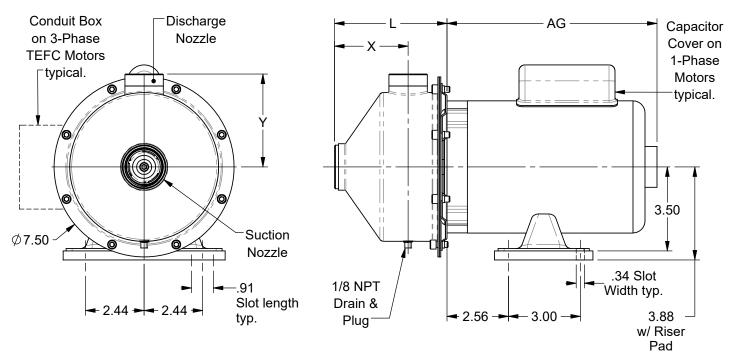
									Ship Wgt.	AG	AG	Ship Wgt.
							AG	AG	ODP	TEFC	TEFC	TEFC
Size	Suction	Discharge	L	Х	Υ	Motor HP	ODP 1Ø	ODP 3Ø	1Ø//3Ø	1Ø	3Ø	1Ø//3Ø
						1/2	9.1	8.3	32 // 28	9.3	12.1	31 // 28
						3/4	9.6	9.6	35 // 29	9.8	12.0	38 // 29
1SSP/C	1.25 NPT	1.0 NPT	4.7	3.1	3.9	1.0	9.8	8.7	37 // 30	10.0	11.6	40 // 30
100170	1.20 141 1	1.0 141 1	7.7	0.1	0.0	1.5	10.3	9.1	42 // 32	10.5	13.6	46 // 43
						2.0	10.3	9.5	43 // 36	10.8	14.4	48 // 49
						3.0	10.8	10.3	46 // 42	11.3	15.6	55 // 57
						1.0	9.8	8.7	37 // 31	10.0	11.6	40 // 31
				2.7	4.5	1.5	10.3	9.1	42 // 33	10.5	13.6	46 // 44
2SSP/C	2.0 NPT	1.5 NPT	4.3			2.0	10.3	9.5	46 // 37	10.8	14.4	48 // 50
						3.0	10.8	10.3	46 // 43	11.3	15.6	55 // 58
						5.0	NA	11.4	NA // 57	NA	NA	NA

All dimensions in inches ± 1/16". Shipment weight includes packaging.

^{*}Dimensions may vary by motor manufacturer or motor enclosure. Ideally, weights and dimensions listed are the largest for each motor horsepower size likely to be encountered. More detailed "Certified for Construction" drawings are available upon request.



SSP & SSPC Pumps with 575 Volt ODP & TEFC Footed Motors



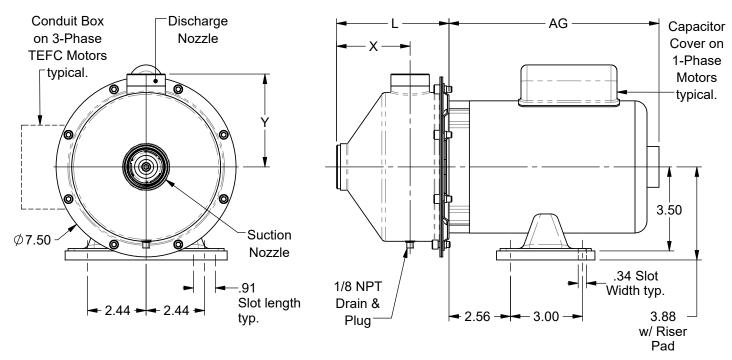
							AG	Wgt.	AG	Wgt.
Ciza	Suction Discharge L X			Υ	Motor LID	ODP	ODP	TEFC	TEFC	
Size	Suction	Discharge	L	X	Ť	Motor HP	3Ø	3Ø	3Ø	3Ø
1SSP/C	1.25 NPT	1.0 NPT	4.7	3.1	3.9	3/4	8.7	26	NA	NA
						1.0	8.7	27	9.0	32
						1.5	9.1	30	11.1	48
						2.0	9.5	39	11.8	53
						3.0	10.3	45	13.1	55
2SSP/C	2.0 NPT	1.5 NPT	4.3	2.7	4.5	1.0	8.7	28	9.0	32
						1.5	9.1	31	11.1	48
						2.0	9.5	40	11.8	53
						3.0	10.3	46	13.1	55
						5.0	11.4	91	contac	t ASP

All dimensions in inches ± 1/16". Shipment weight includes packaging.

^{*}Dimensions may vary by motor manufacturer or motor enclosure. Ideally, weights and dimensions listed are the largest for each motor horsepower size likely to be encountered. More detailed "Certified for Construction" drawings are available upon request.



SSP & SSPC Pumps with Wash Down Duty Footed Motors



Size	Suction	Discharge	L	Х	Υ	Motor HP	AG WASH 3Ø	Ship Wgt. WASH 3Ø
		<u> </u>				3/4	8.8	32
1SSP/C	1.25 NPT	1.0 NPT	4.7	3.1	3.9	1.0	8.8	44
						1.5	10.3	52
						2.0	11.3	58
						3.0	11.8	63
2SSP/C	2.0 NPT	1.5 NPT	4.3	2.7	4.5	1.0	8.8	44
						1.5	10.3	52
						2.0	11.3	58
						3.0	11.8	63

All dimensions in inches \pm 1/16". Shipment weight includes packaging.

^{*}Dimensions may vary by motor manufacturer or motor enclosure. Ideally, weights and dimensions listed are the largest for each motor horsepower size likely to be encountered. More detailed "Certified for Construction" drawings are available upon request.