



AMERICAN STAINLESS PUMPS
STAINLESS STEEL PUMPS FOR THE COMMERCIAL MARKETPLACE



STAINLESS STEEL CENTRIFUGAL PUMP

SSPB

AMERICAN STAINLESS PUMPS, INC.
Stainless Steel Pumps for the Commercial Marketplace



THE PUMP MODEL SSPB

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 SSPB is well suited for cleaning, cooling, circulation and transfer applications and is a more efficient version of our original SSPC pump.

CHARACTERISTICS

The SSPB 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 SSPB 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 SSPB 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 SSPB casing.

SPECIFICATIONS

- Flows to 250-gpm and Heads up to 127 feet of head.
- Pressure capabilities up to 125 psig.
- Temperatures to 250 F.
- Female NPT threaded Suction and discharge nozzles.
- Size 1: 1.0" x 1.25" NPT
- Size 2: 1.25" x 1.5" NPT
- Size 3: 1.5" x 2.0" NPT
- 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

- Tri-Clamp 3A suction and discharge fittings.
- Mounting bases
- Custom Features! Contact factory for support.

CATALOG NUMBER NOMENCLATURE

B 2 46 23 B 2 T 1 X Sample code for a model SSPB, size 1.25x1.5 with a 4.75" diameter impeller, 0.23" 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.

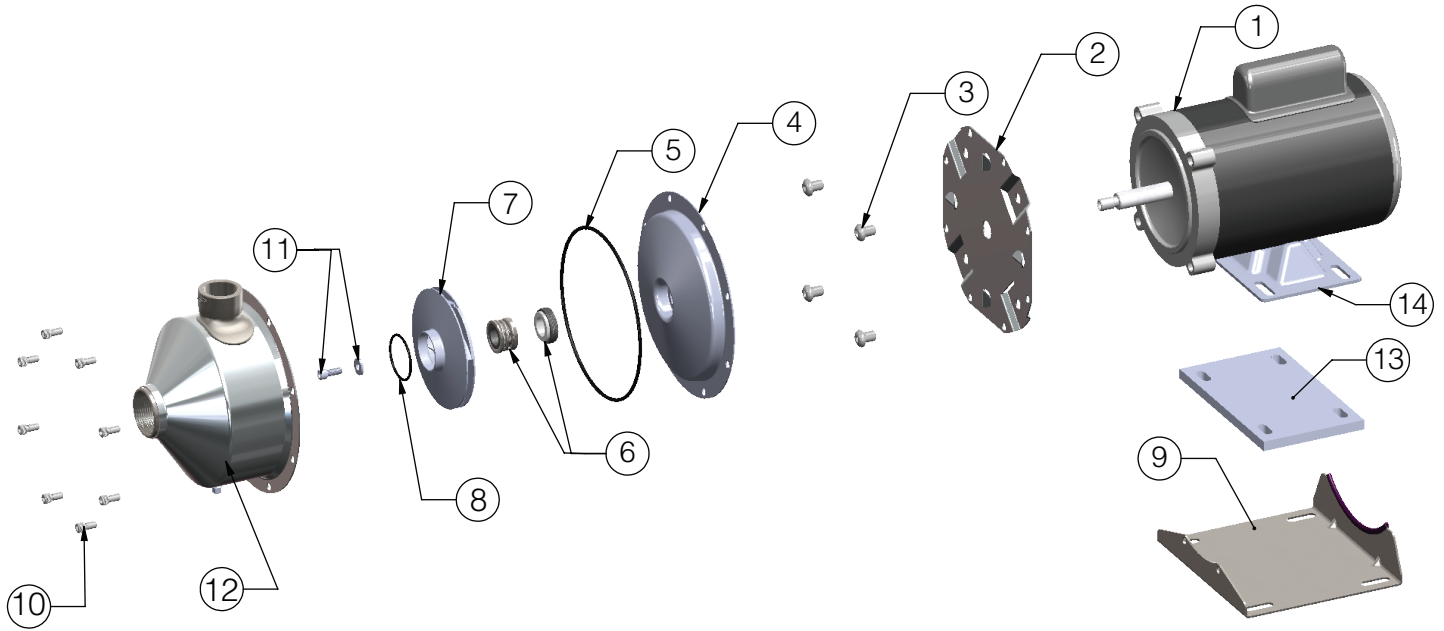
1ST SYMBOL	Pump Model	B = SSPB: Closed Impeller, 304SS Pump, 6 inch case, threaded connections																																			
2ND SYMBOL	Size Code	1 = 1.0" x 1.25" NPT																																			
	Disch. x Suct.	2 = 1.25" x 1.50" NPT																																			
		3 = 1.5" x 2.0" NPT																																			
		4 = 1.5" 3A sanitary connections																																			
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 Height (at a reference ' diameter of 4.38")	Two digits indicate the impeller vane height at 4.38" diameter, as indicated on performance curve. Ex: 25 indicates a vane height of 0.250 inch at 4.38". (Note: if the impeller diameter is larger than 4.38", the vane height at the outside diameter will be smaller than the size code.)																																			
7TH SYMBOL	Mechanical Seal Type & Materials	TYPE 16 W/ CUP MOUNT SEAT		T-16 W/ O-RING MOUNT SEAT																																	
		<table border="1"> <tr><td>B = Car/Cer/Bun</td><td>Stock</td></tr> <tr><td>E = Car/Cer/EPR</td><td>Stock</td></tr> <tr><td>V = Car/Cer/Viton</td><td>Stock</td></tr> <tr><td>4 = Car/SiC/Viton</td><td>Stock</td></tr> <tr><td>5 = Car/SiC/EPR</td><td>Stock</td></tr> <tr><td>6 = SiC/SiC/Buna</td><td>Stock</td></tr> <tr><td>7 = SiC/SiC/EPR</td><td>Stock</td></tr> <tr><td>8 = SiC/SiC/Viton</td><td>Stock</td></tr> <tr><td>X = Special</td><td></td></tr> </table>	B = Car/Cer/Bun	Stock	E = Car/Cer/EPR	Stock	V = Car/Cer/Viton	Stock	4 = Car/SiC/Viton	Stock	5 = Car/SiC/EPR	Stock	6 = SiC/SiC/Buna	Stock	7 = SiC/SiC/EPR	Stock	8 = SiC/SiC/Viton	Stock	X = Special		<table border="1"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td>L = Car/SiC/Buna</td><td></td></tr> <tr><td>M = Car/SiC/EPR</td><td>Stock</td></tr> <tr><td>N = Car/SiC/Viton</td><td></td></tr> <tr><td>P = SiC/SiC/Buna</td><td>Stock</td></tr> <tr><td>R = SiC/SiC/EPR</td><td>Stock</td></tr> <tr><td>T = SiC/SiC/Vito</td><td>Stock</td></tr> <tr><td></td><td></td></tr> </table>					L = Car/SiC/Buna		M = Car/SiC/EPR	Stock	N = Car/SiC/Viton		P = SiC/SiC/Buna	Stock	R = SiC/SiC/EPR	Stock	T = SiC/SiC/Vito	Stock
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R = SiC/SiC/EPR	Stock																																				
T = SiC/SiC/Vito	Stock																																				
MATERIAL INDEX	<p>Material Format: Rotating Face/Stationary Face/Elastomer Car = Carbon Cer = Ceramic SiC = Silicon Carbide</p>																																				
		Note: Standard case and impeller o-ring material will match seal elastomer as selected above.																																			
8TH SYMBOL	Motor HP	A = 1/3 HP B = 1/2 HP C = 3/4 HP	1 = 1 HP E = 1.5 HP 2 = 2 HP	3 = 3 HP 5 = 5 HP 7 = 7.5HP (non-stock)																																	
9TH SYMBOL	Motor Enclosure	D = Dripproof T = TEFC	X = Explosion Proof W = Washdown Duty	V = TENV S = Stainless Steel Motor																																	
10TH SYMBOL	Motor Power Details	POWER RATING	3500 RPM	1750 RPM	2900 RPM																																
		1/60/115-230V	1	A																																	
		1/60/230V	2	B																																	
		3/60/208V	8																																		
		3/60/230-460V	3	C																																	
		3/60/460V	4	D																																	
		3/60/575V	5	E																																	
		1/50 or 1/60 (dual)	V	G	V																																
		3/50 or 3/60 (dual)	S	U	S																																
		Special	X	X	X																																
		1/50/110-220V			W																																
		1/50/220V			Y																																
3/50/380V			Z																																		

11TH SYMBOL & UP

Special Construction Codes:
Consult factory for special pricing. May indicate a restricted OEM code.

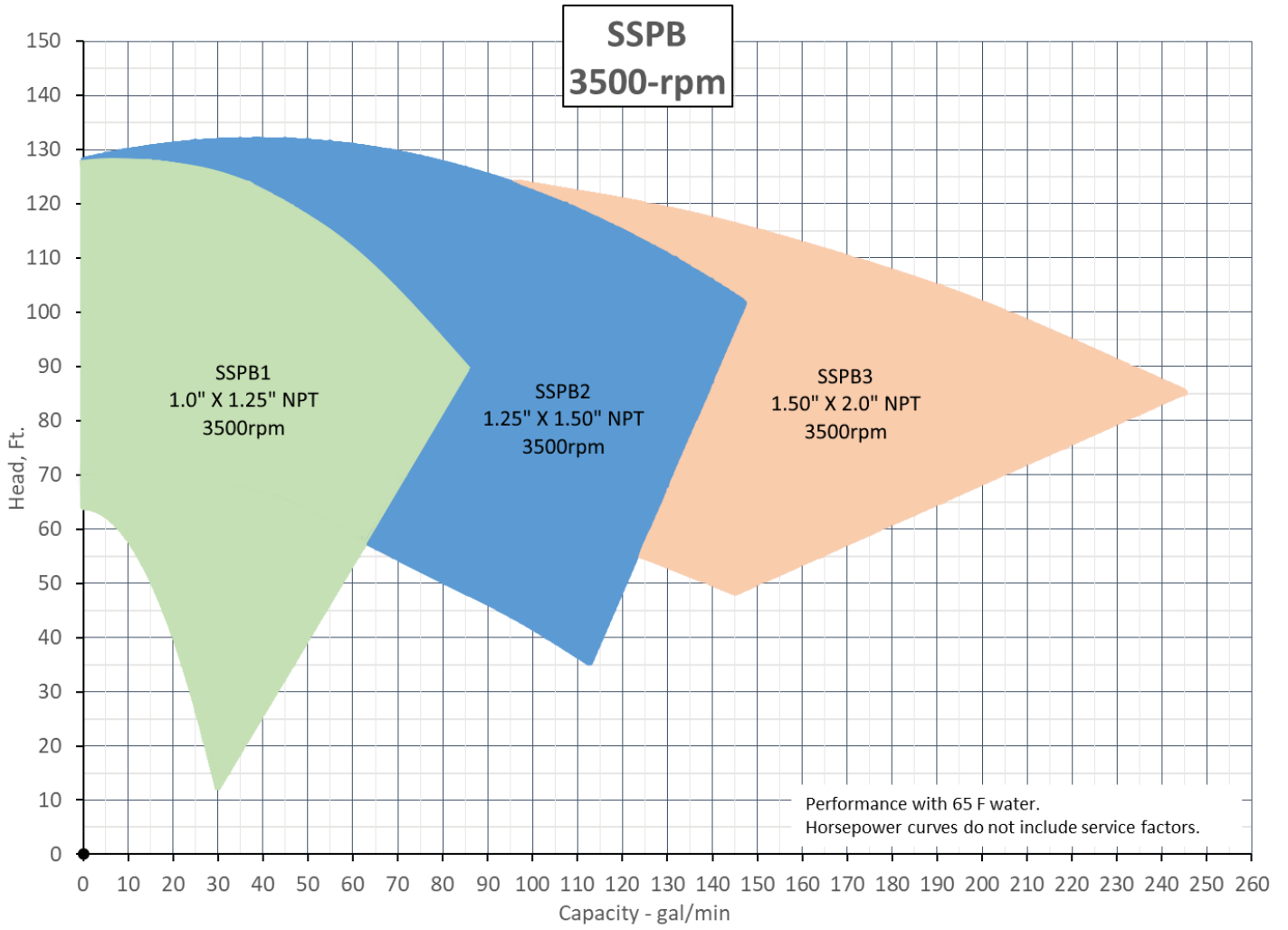
F = Footed Motor
= Stainless Steel Base (no symbol)
L = No base or foot, round body
S = Motor Shaft is 300SS
X = Special - Consult factory with serial number
W = welded impeller (no braze)
V = VFD capable

CATALOG NUMBER NOMENCLATURE

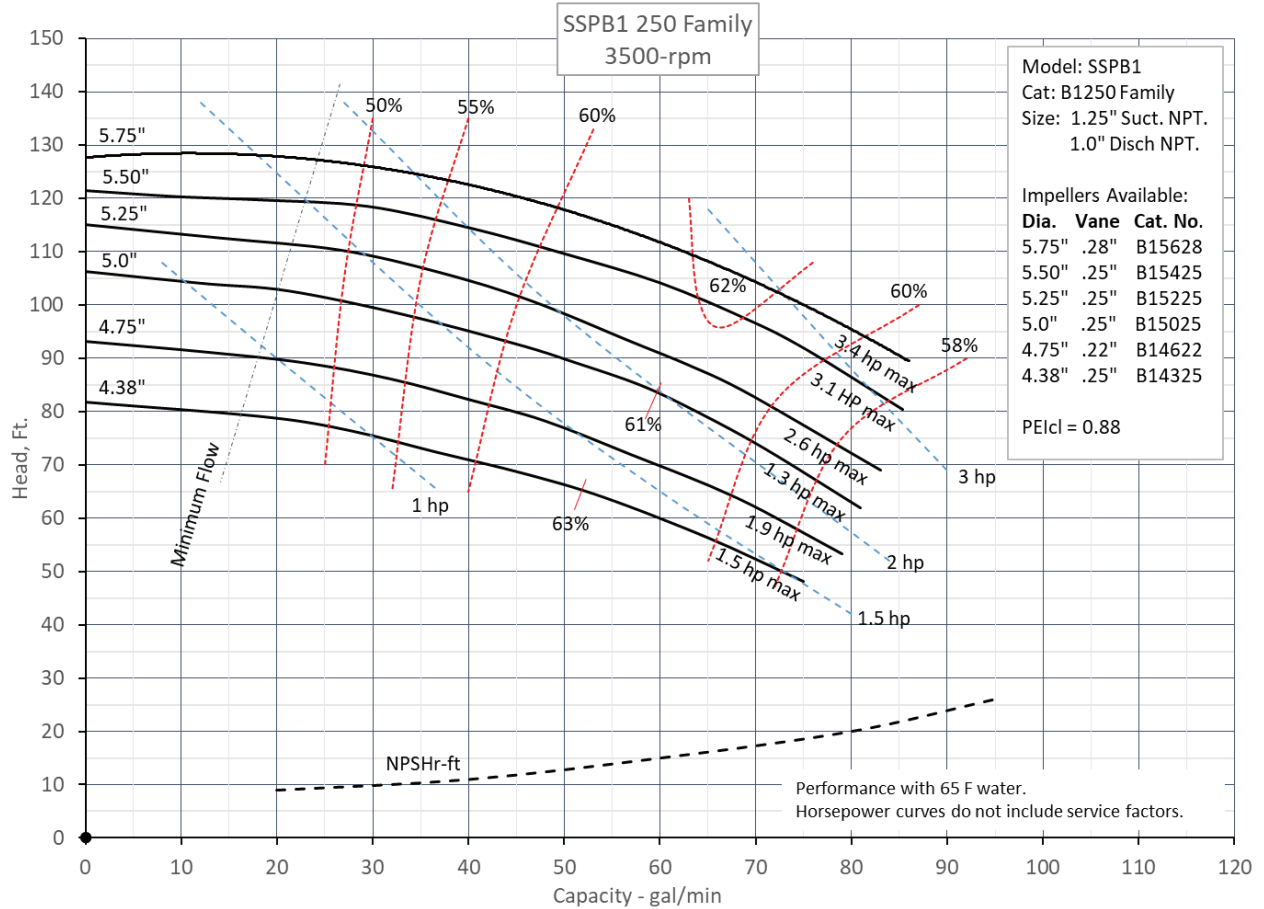
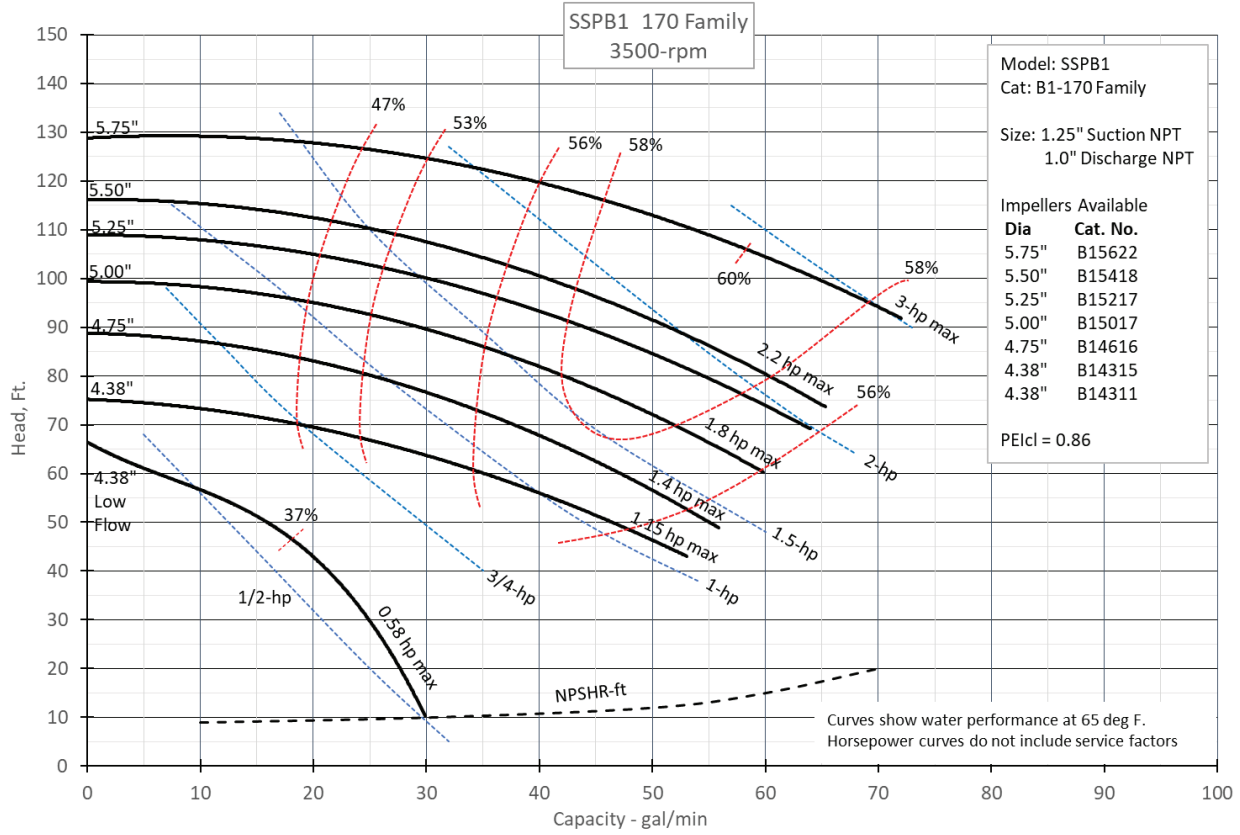


ITEM NO.	DESCRIPTION	QTY	MATERIAL	OPTIONS
1	Motor	1	SS Shaft	See Motor Options
2	Motor Adaptor	1	304 SS	
3	Motor Bolts	4	18-8	
4	Seal Plate	1	304 SS	
5	Case O-Ring	1	Buna Std.	Viton & EPR
6	Mechanical Seal	1	Varies	See Seal Options
7	Impeller	1	304 SS	
8	Impeller O-Ring	1	Buna Std.	Viton & EPR
9	Base Plate	1	304 SS	(Provided with Round body motors only)
10	Case Screws	8	18-8	
11	Impeller lockScrew & Washer	1	18-8	For 3-phase & Exp. P. Motors
12	Casing	1	304 SS	
13	Motor Riser Pad	1	PVC	Std. W/ Footed Motors
14	Motor Foot	1		Motor shown with foot

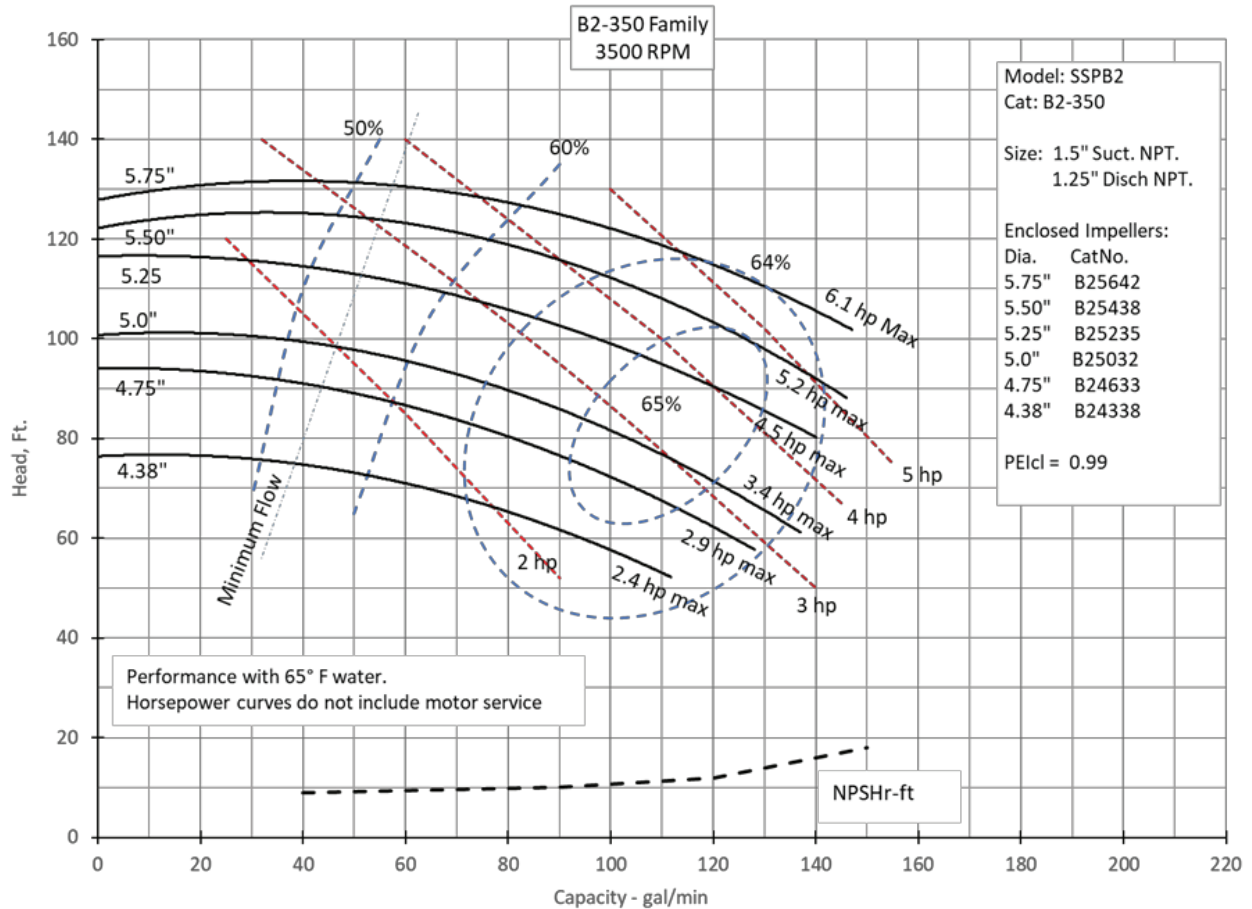
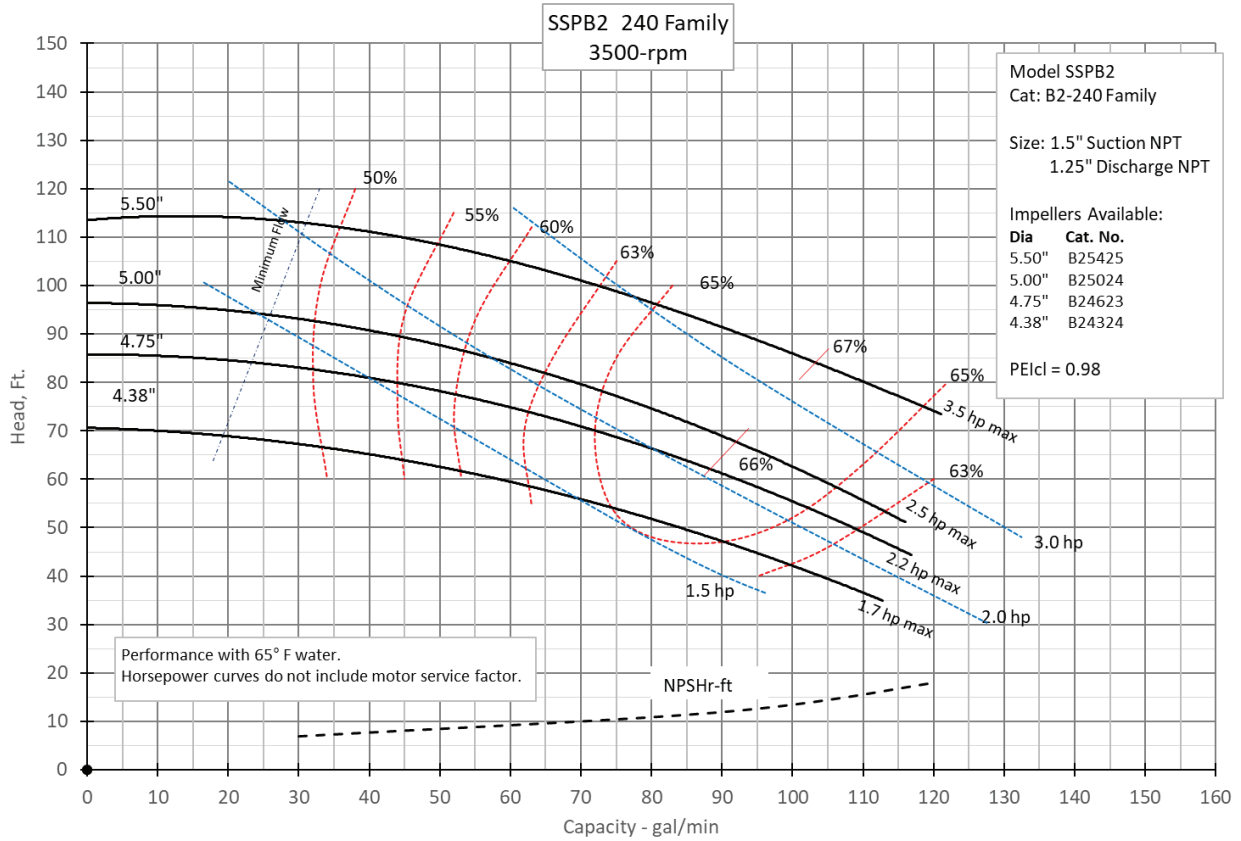
SSPB CURVES / 3500-RPM



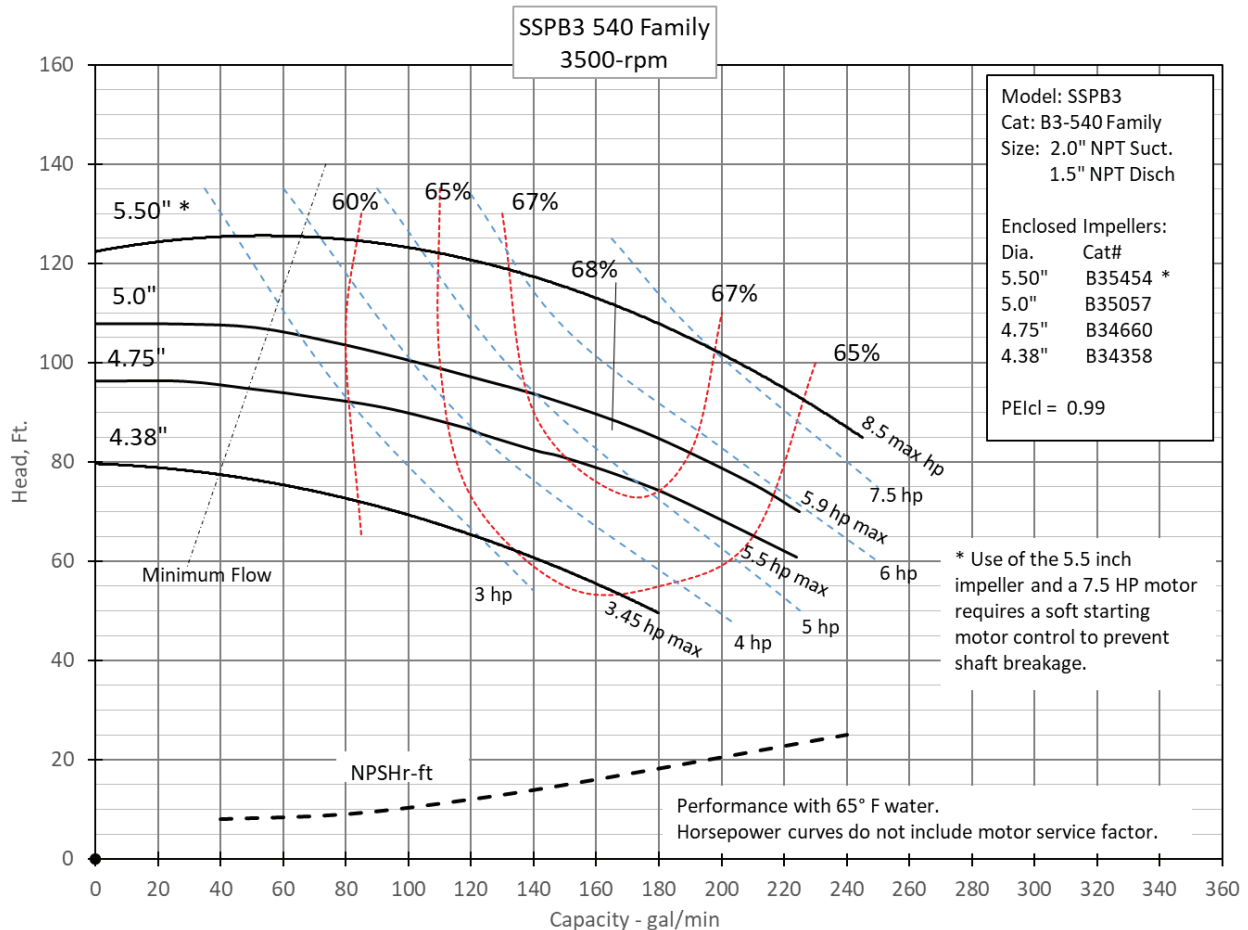
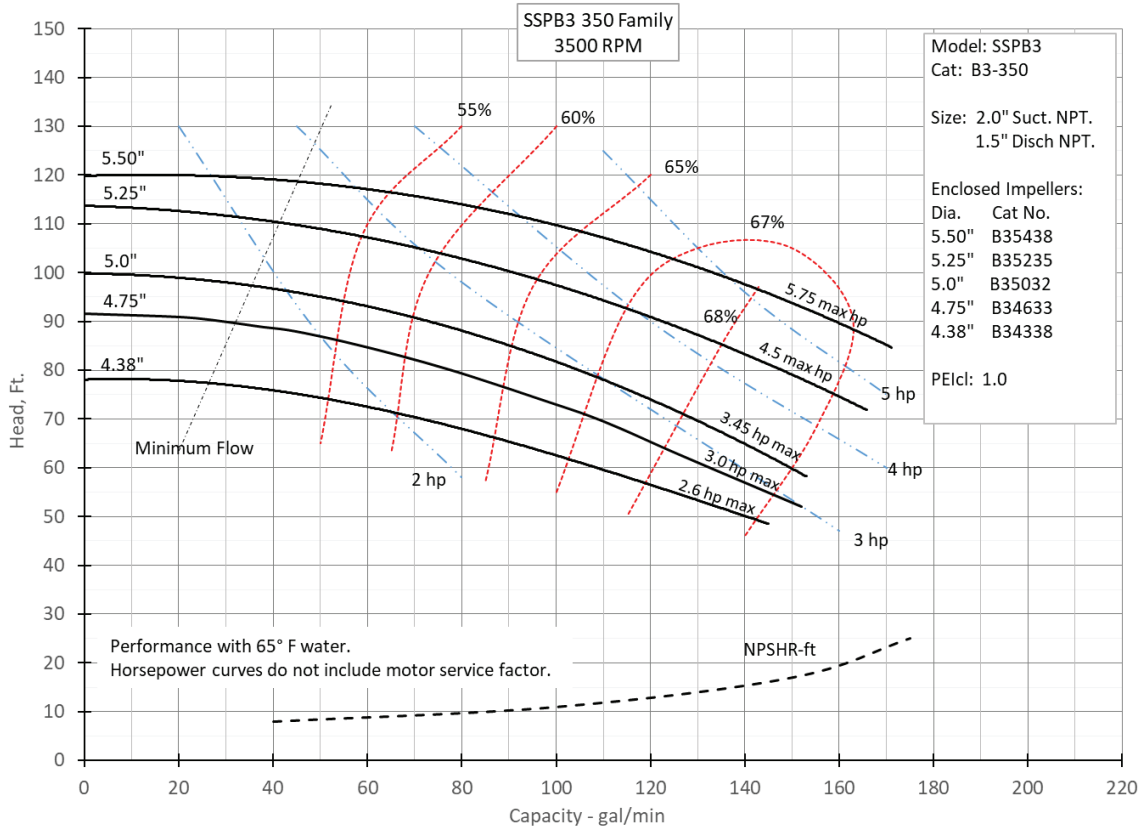
SSPB1 / 3500-RPM / 60-HZ



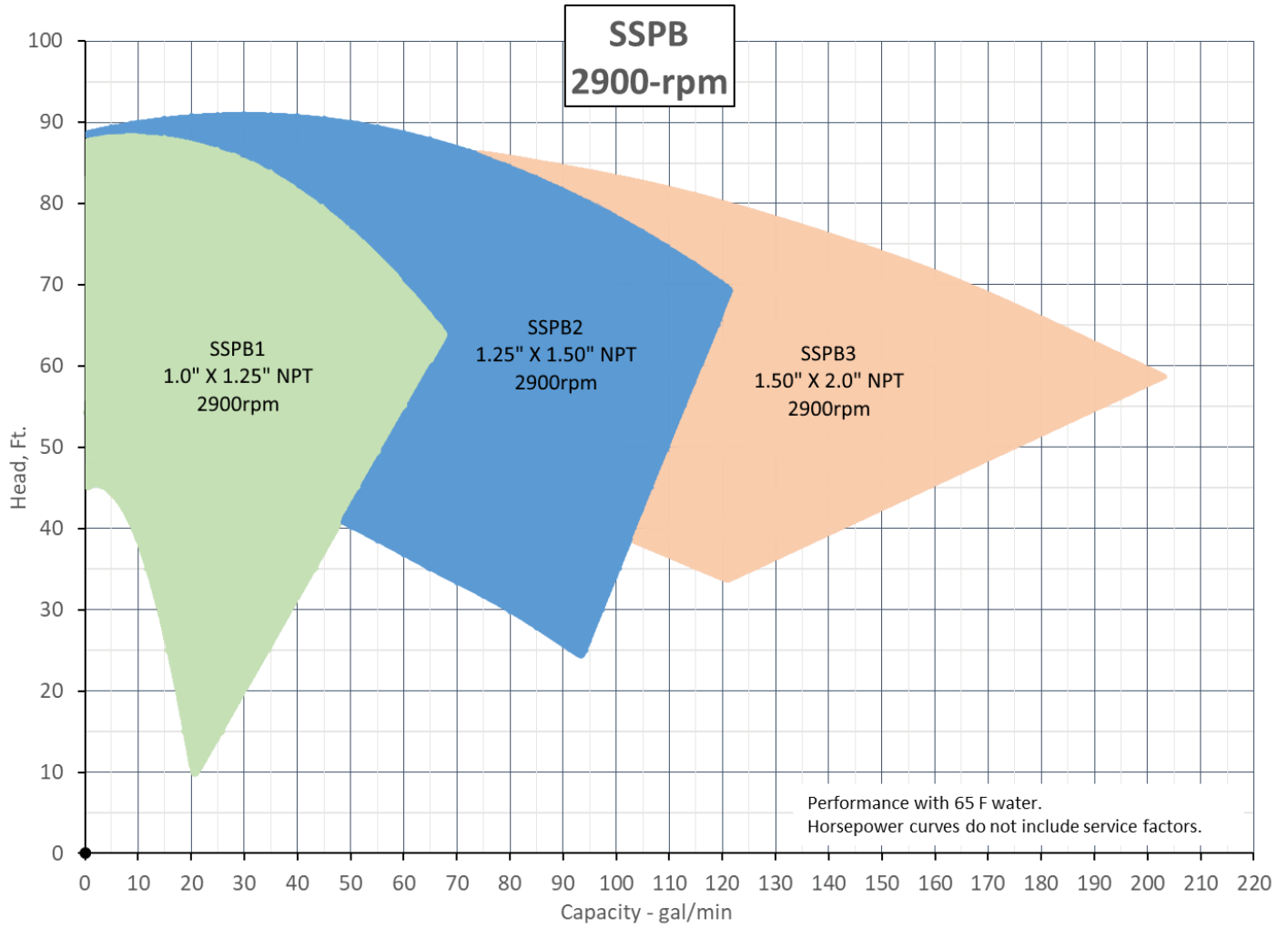
SSPB2 / 3500-RPM / 60-H



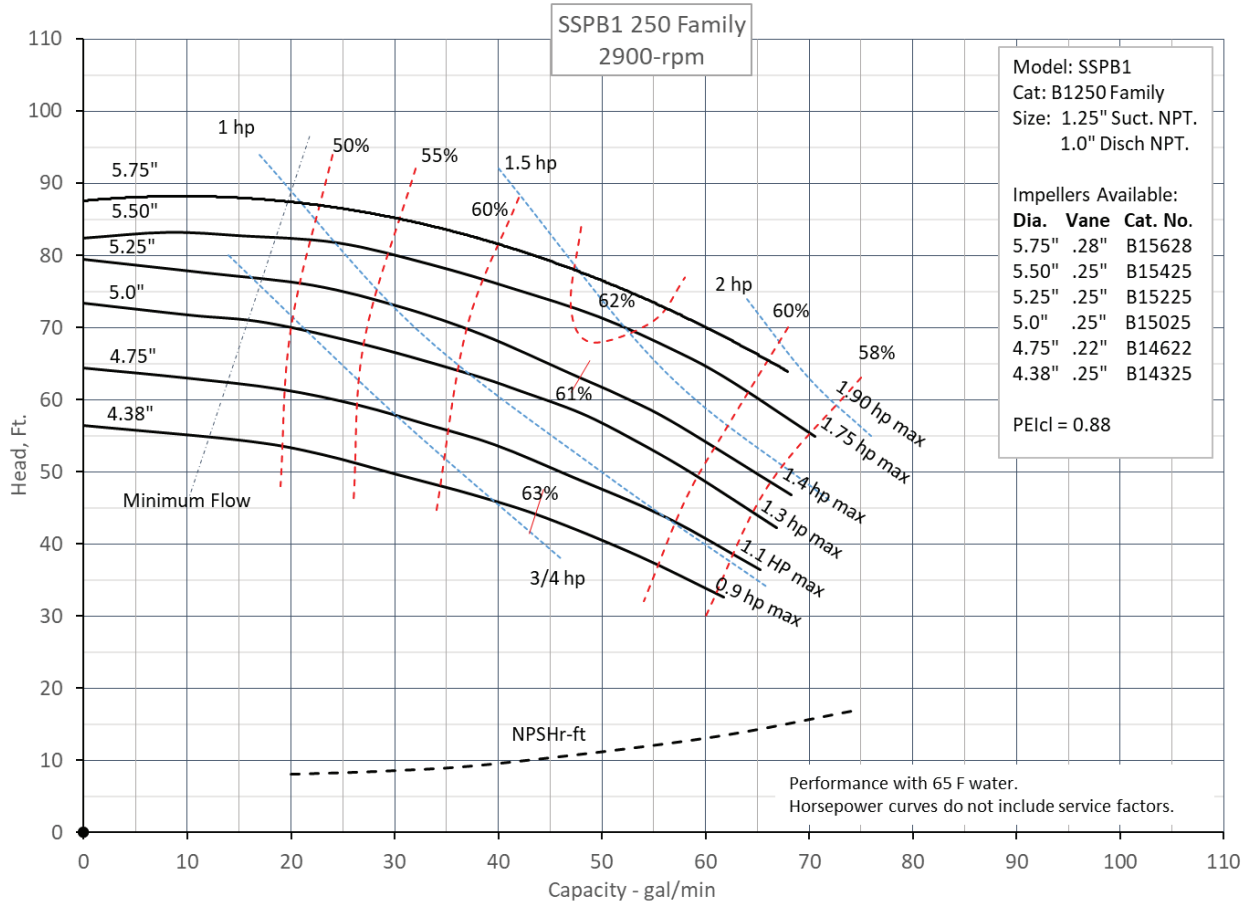
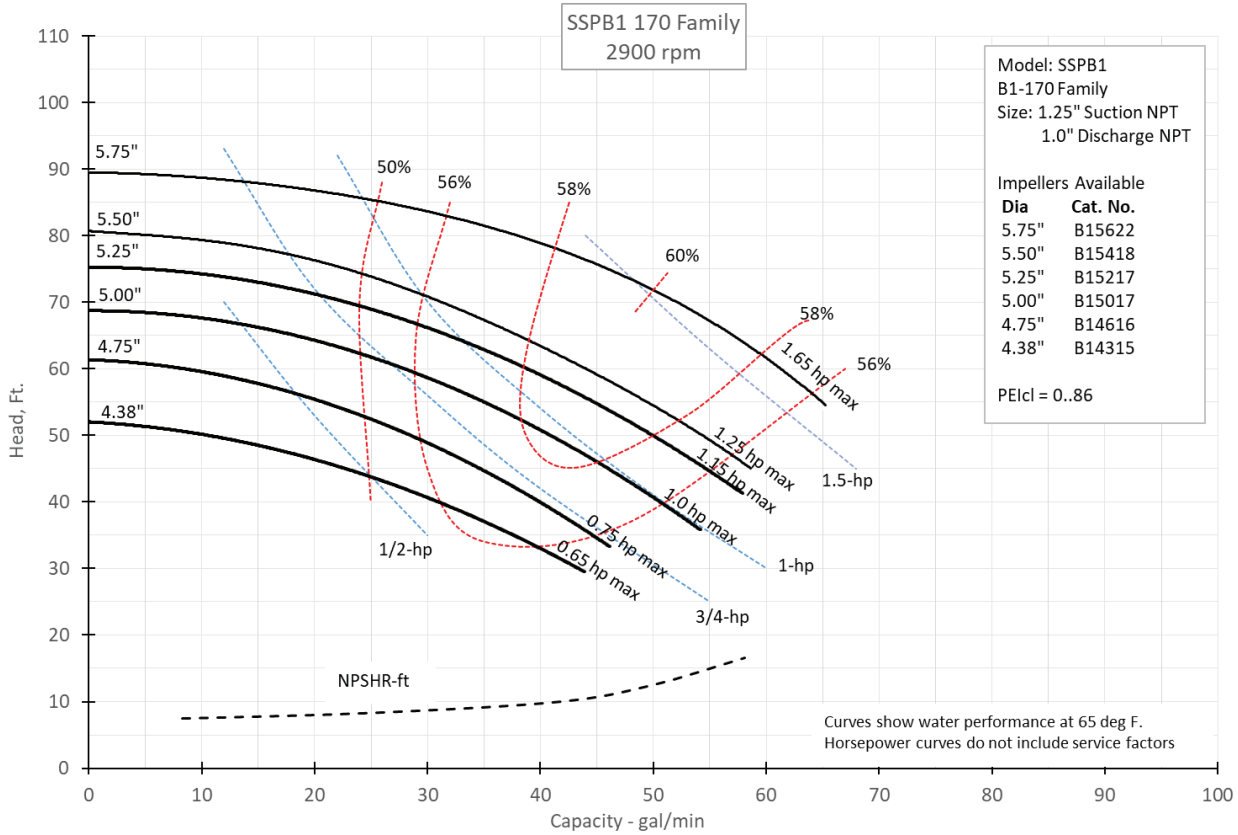
SSPB3 / 3500-RPM / 60-HZ



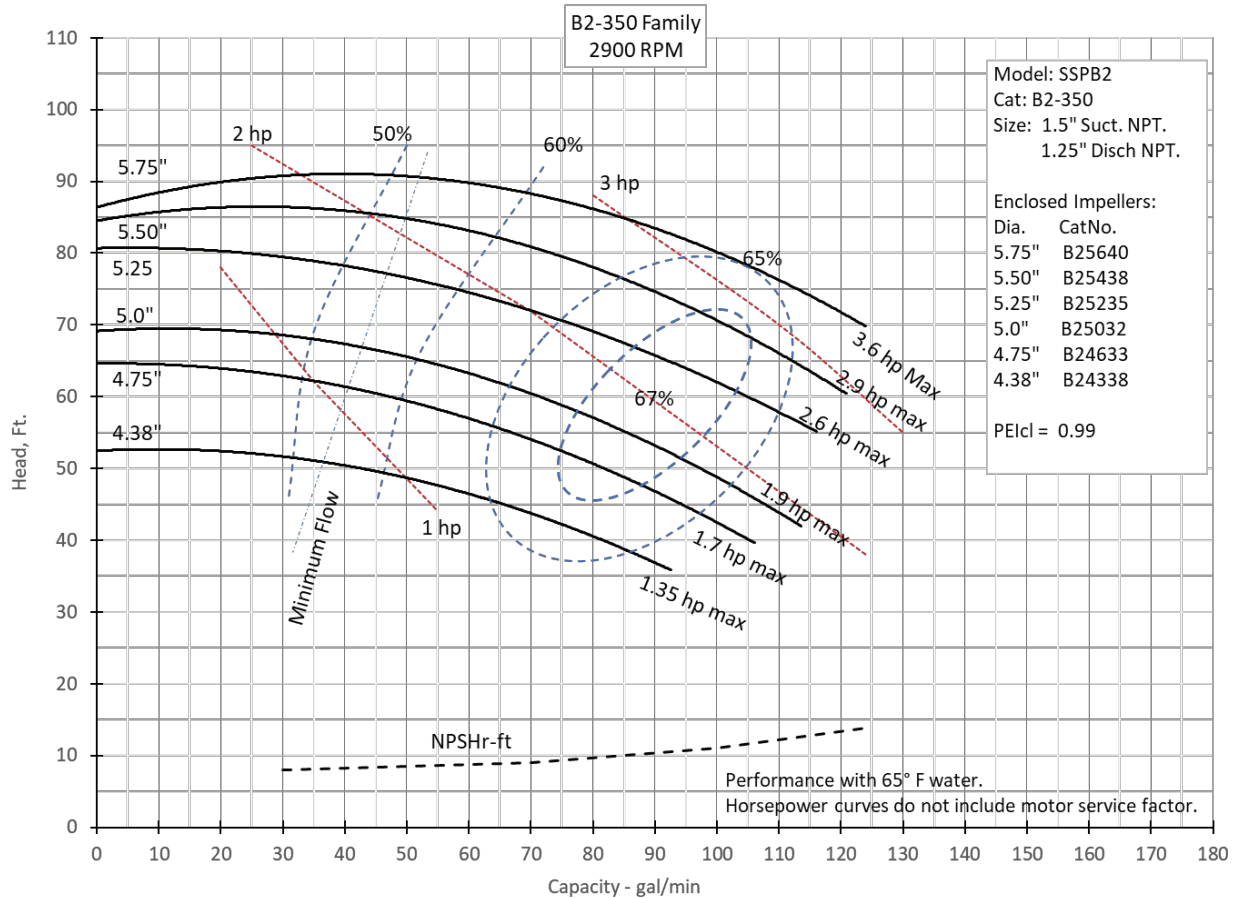
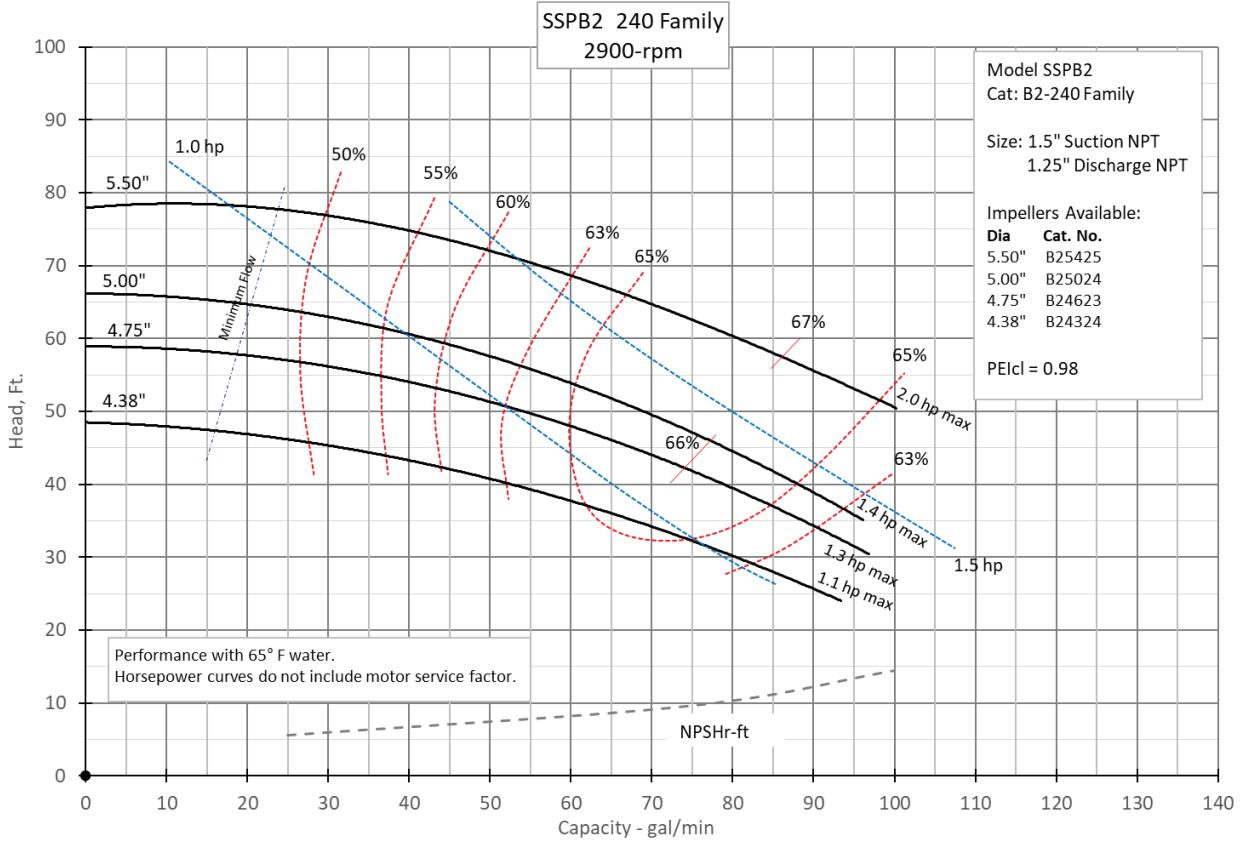
SSPB CURVES / 2900-RPM



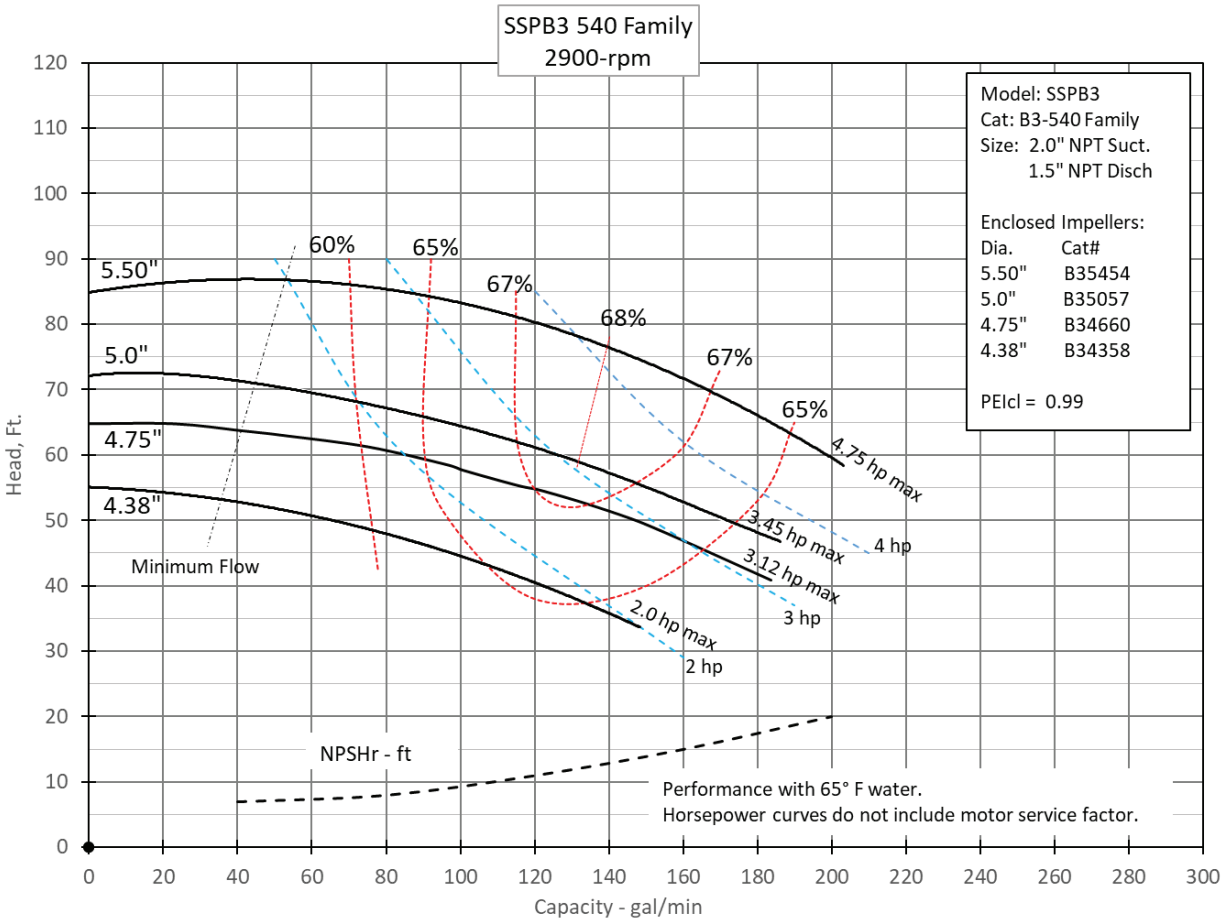
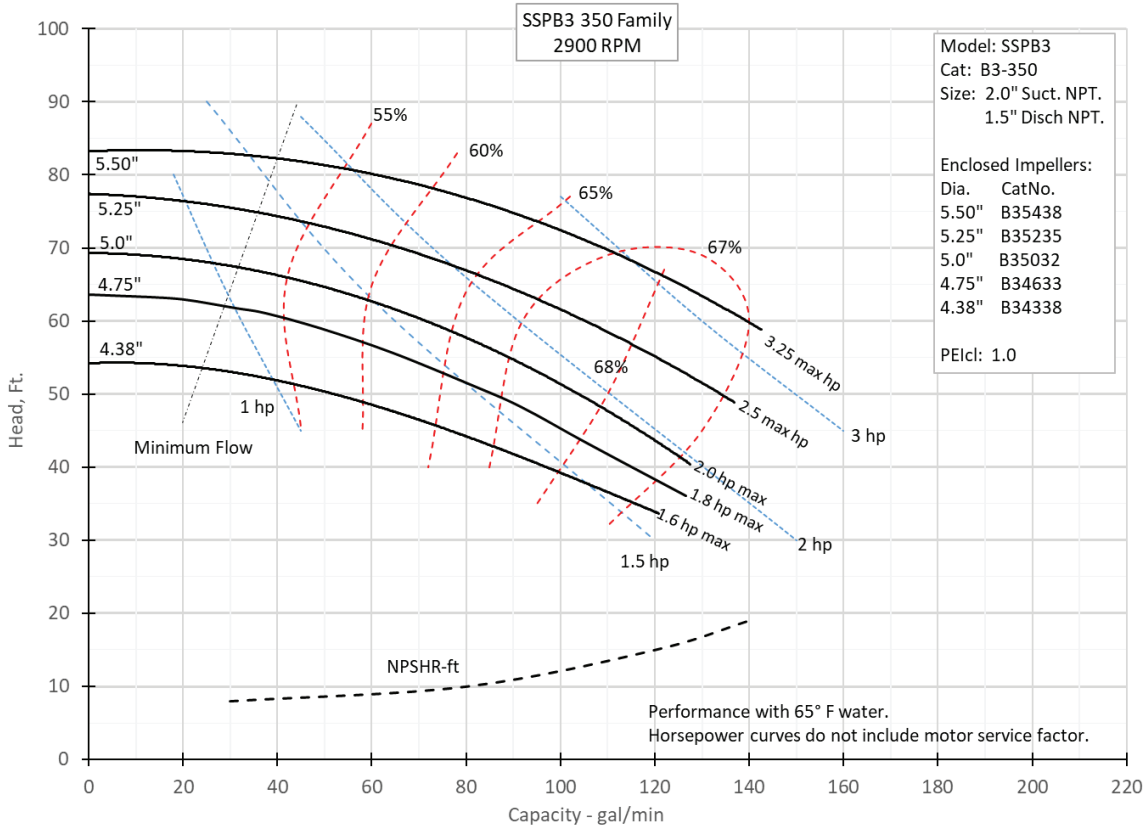
SSPB1 / 2900-RPM / 50-HZ



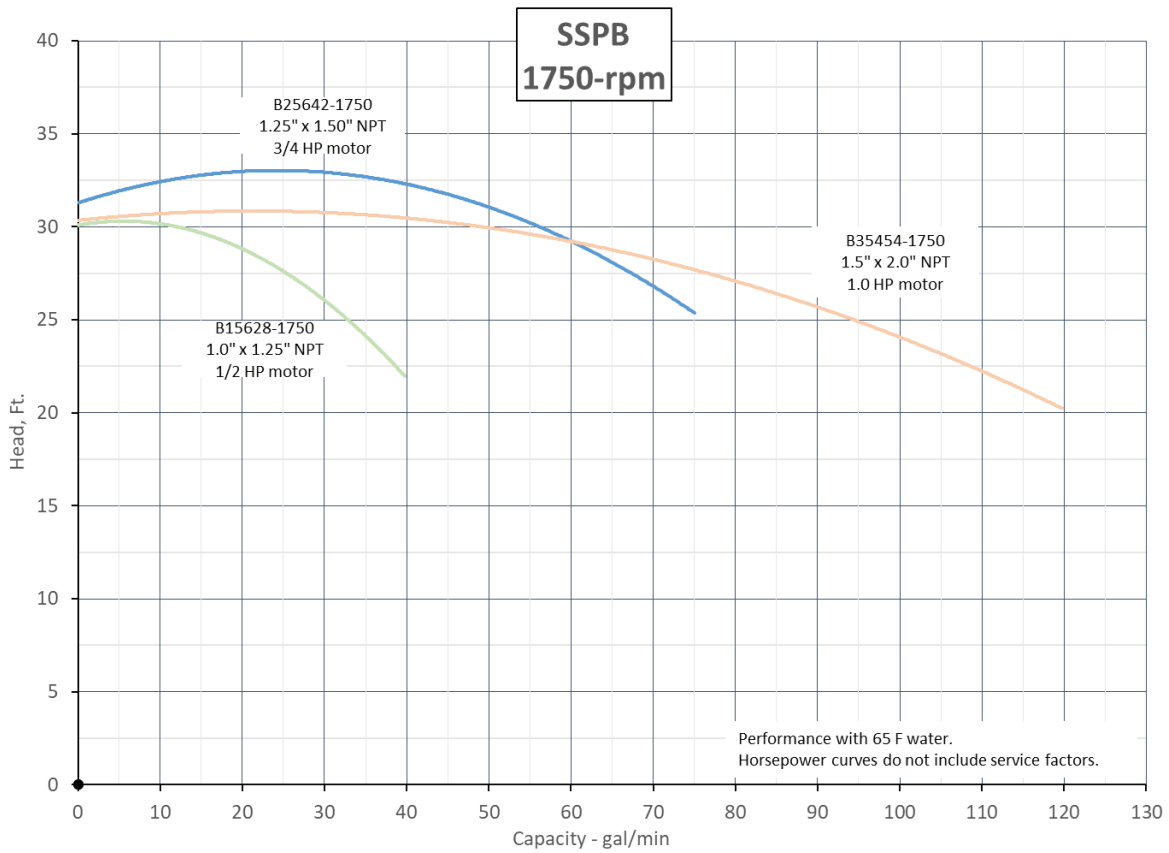
SSPB2 / 2900-RPM / 50-HZ



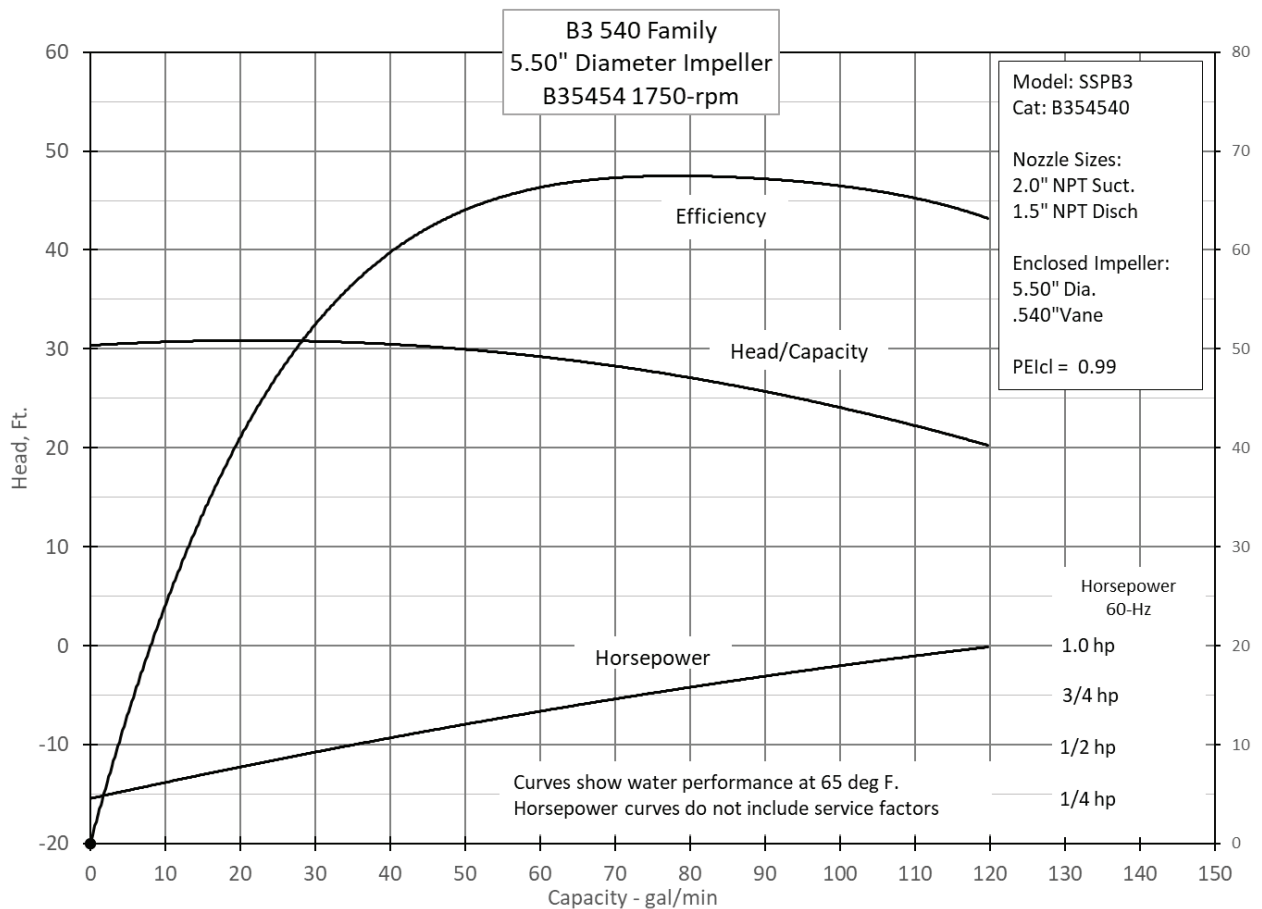
SSPB3 / 2900-RPM / 50-HZ



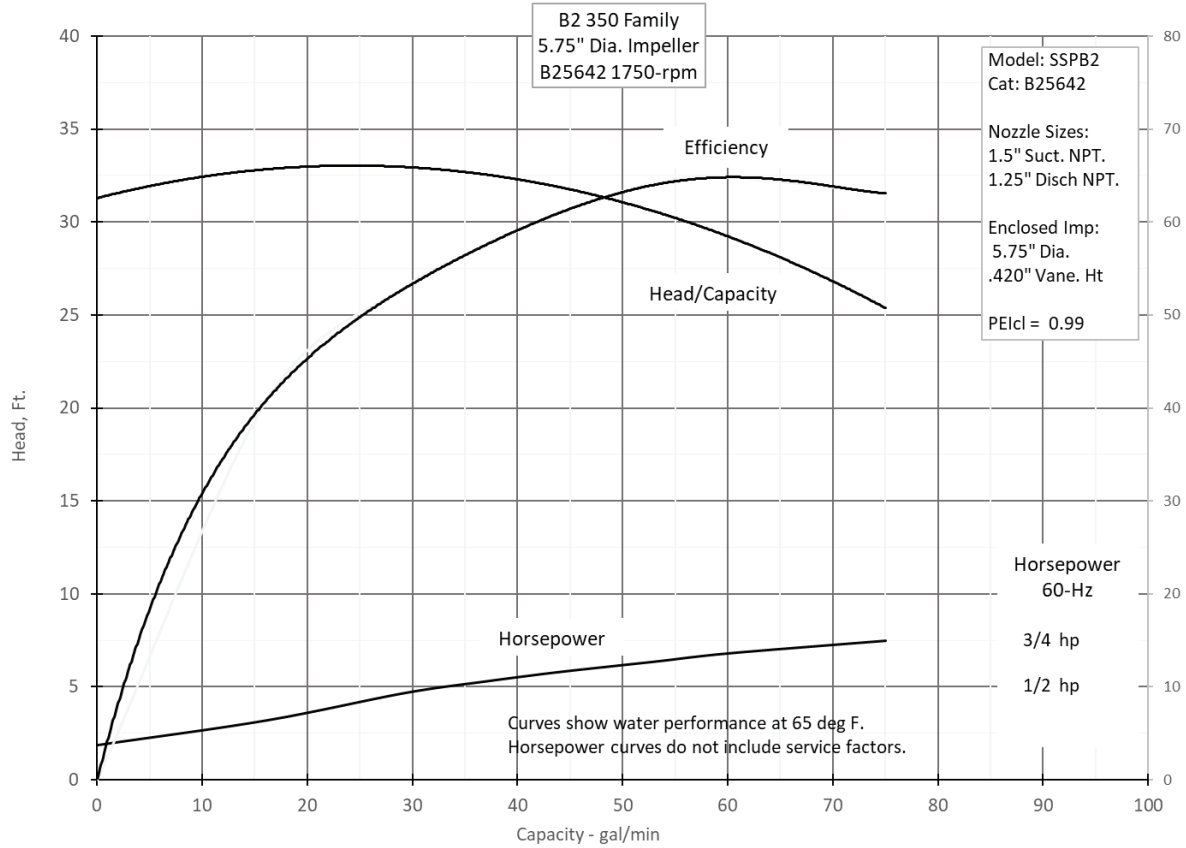
SSPB CURVES / 1750RPM



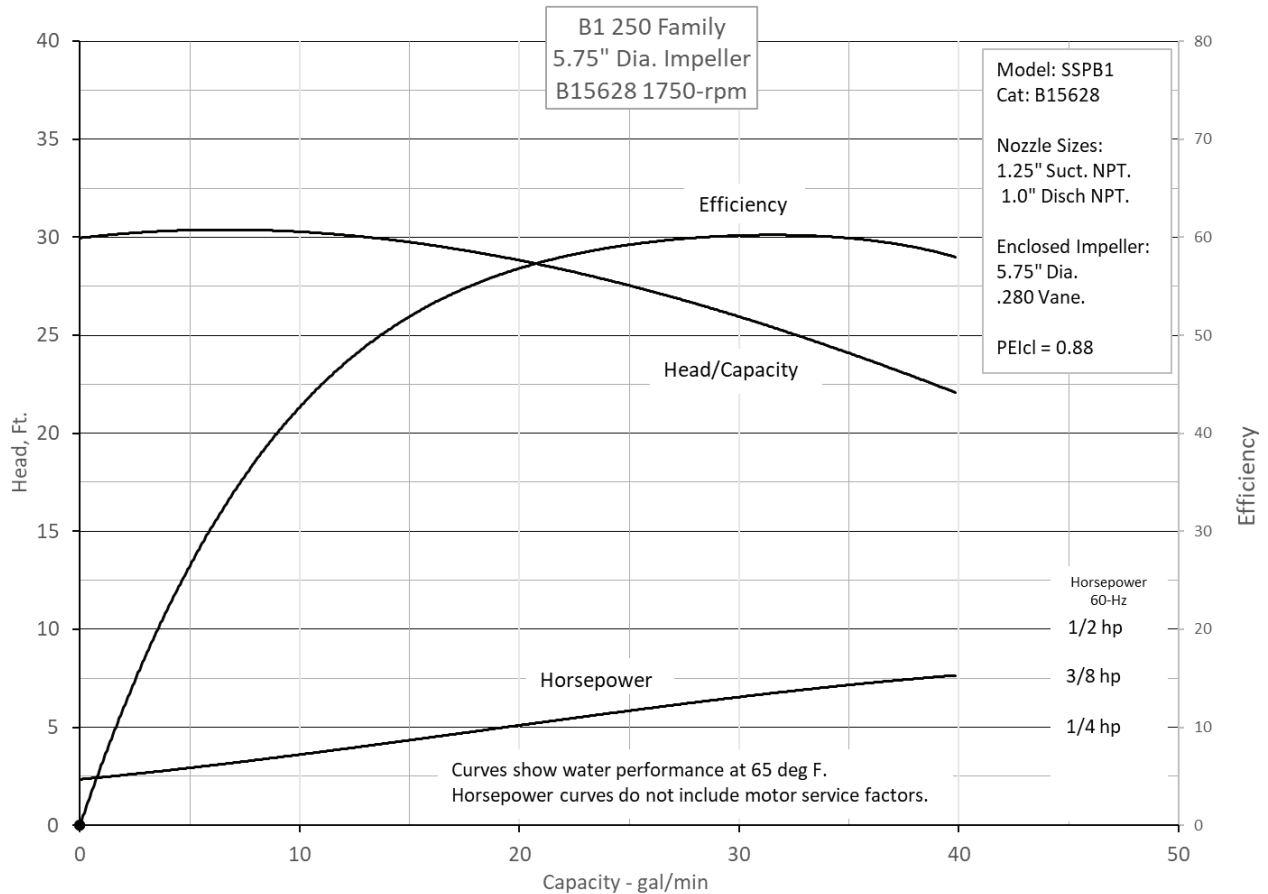
60HZ / 1750RPM / 1.0HP



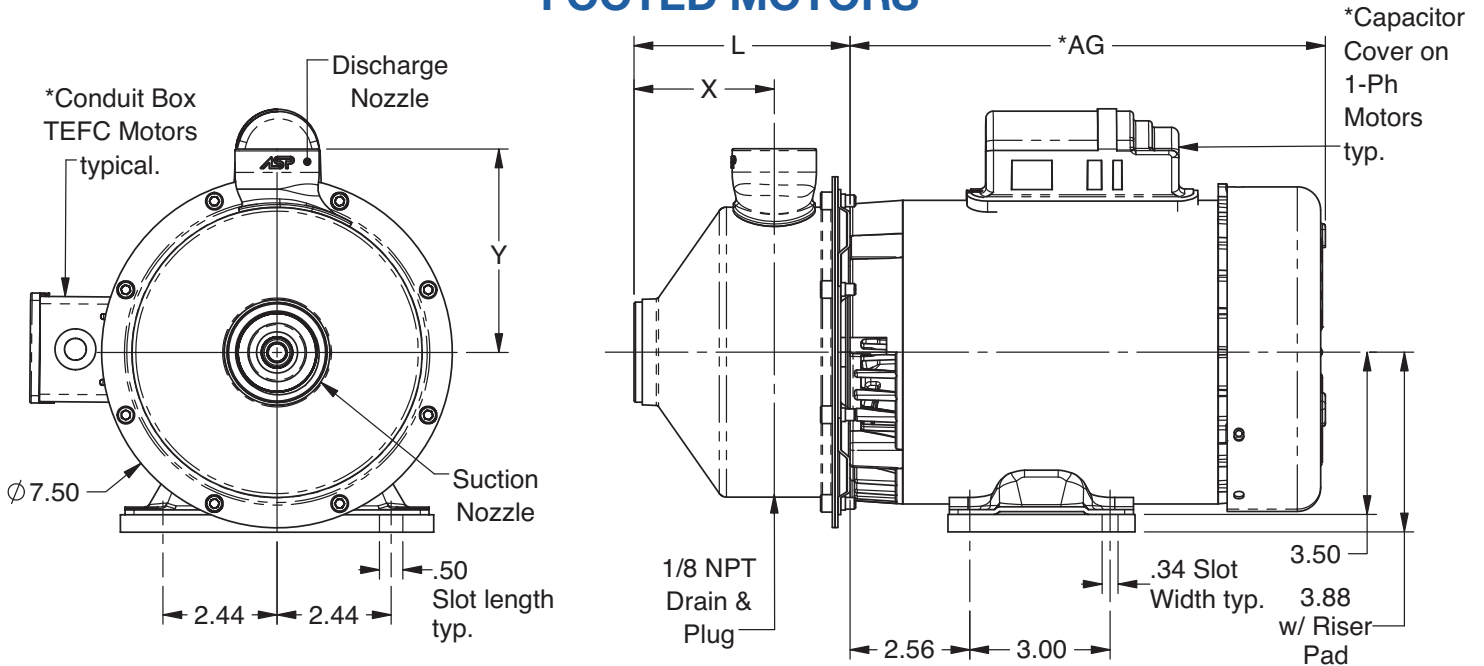
60HZ / 1750RPM / 0.75HP



60HZ / 1750RPM / 0.50HP



SSPB & SSPB/C PUMPS WITH ODP & TEFC FOOTED MOTORS

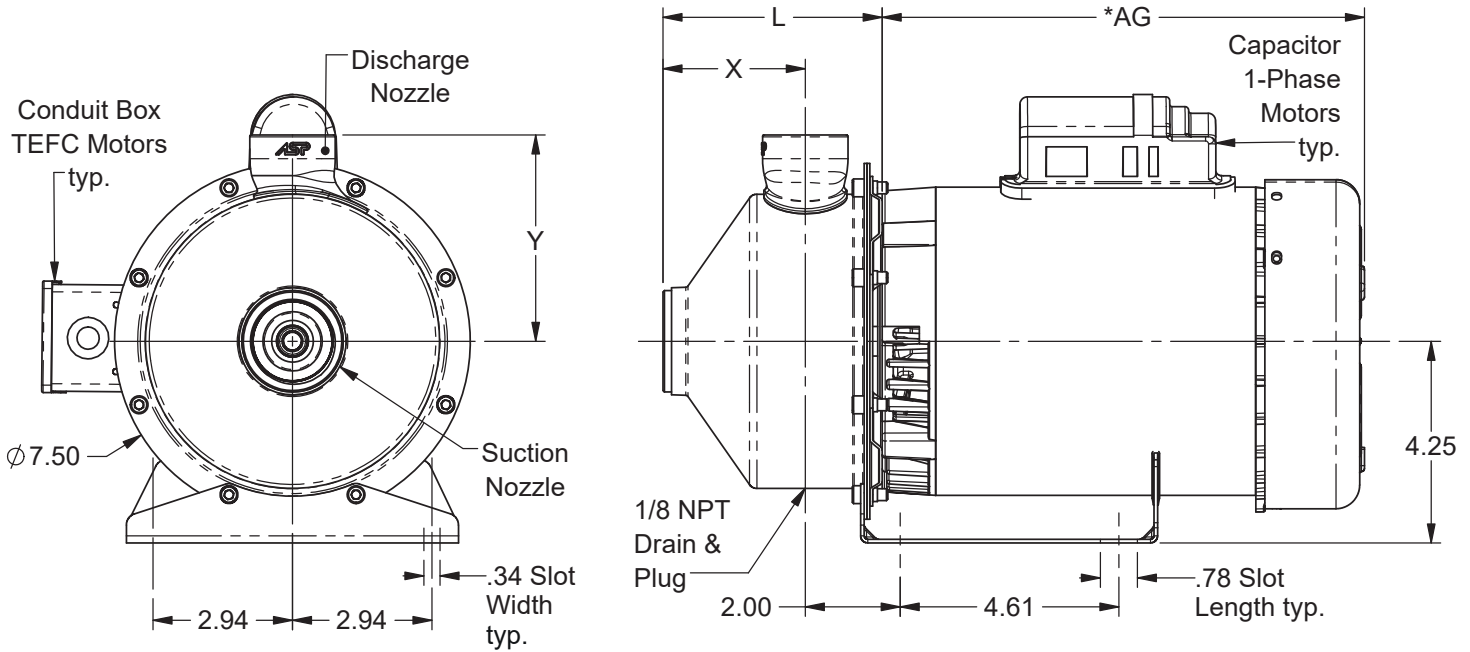


SIZE	SUCTION	DISCHARGE	L	X	Y	MOTOR HP	AG ODP 1Ø	AG ODP 3Ø	SHIP WGT. ODP 1Ø//3Ø	AG TEFC 1Ø	AG TEFC 3Ø	SHIP WGT. TEFC 1Ø//3Ø
1SSPB/C	1.25 NPT	1.0 NPT	4.4	3.1	4.25	1/2	9.1	8.3	32 // 28	9.3	9.5	31 // 28
						3/4	9.6	8.7	35 // 29	9.8	9.5	38 // 29
						1.0	9.8	8.7	37 // 30	10.0	9.0	40 // 30
						1.5	10.3	9.1	42 // 32	10.5	11.1	46 // 43
						2.0	10.6	9.4	43 // 36	10.8	11.8	48 // 49
						3.0	11.4	10.2	46 // 42	11.3	13.0	55 // 57
						5.0	12.0	12.2		NA	13.6	
2SSPB/C	1.5 NPT	1.25 NPT	4.3	3.0	4.35	1/2	9.1	8.3	32 // 28	9.3	9.5	31 // 28
						3/4	9.6	8.7	35 // 29	9.8	9.5	38 // 29
						1.0	9.8	8.7	37 // 31	10.0	9.0	40 // 31
						1.5	10.3	9.1	42 // 33	10.5	11.1	46 // 44
						2.0	10.6	9.4	46 // 37	10.8	11.8	48 // 50
						3.0	11.4	10.2	46 // 43	11.3	13.0	55 // 58
						5.0	12.3	12.2	64 // 57	NA	13.6	NA // 54
3SSPB/C	2.0 NPT	1.5 NPT	4.1	2.8	4.50	1/2	9.1	8.3	32 // 28	9.3	9.5	31 // 28
						3/4	9.6	8.7	35 // 29	9.8	9.5	38 // 29
						1.0	9.8	8.7	37 // 31	10.0	9.0	40 // 31
						1.5	10.3	9.1	42 // 33	10.5	11.1	46 // 44
						2.0	10.6	9.4	46 // 37	10.8	11.8	48 // 50
						3.0	11.4	10.2	46 // 43	11.3	13.0	55 // 58
						5.0	12.3	12.2	64 // 57	NA	13.6	NA // 54
					7.5	NA	NA		NA	15.1		

Dimensional tolerances +/- 1/8"

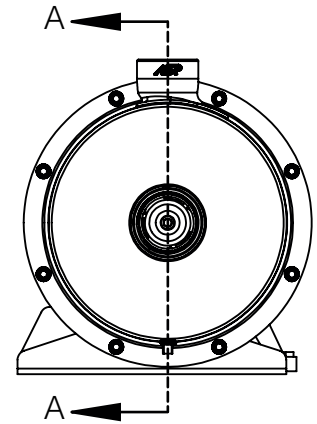
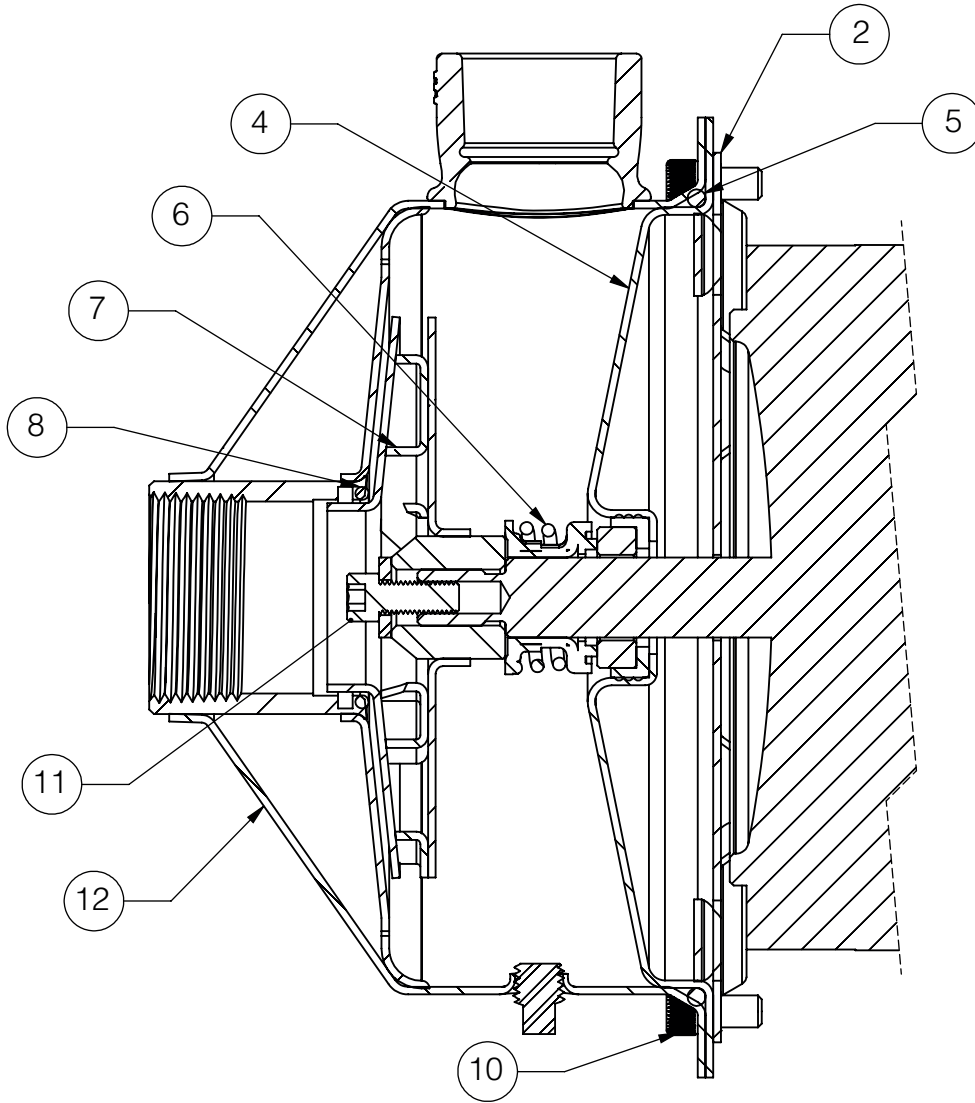
*Dimensions may vary by motor manufacturer or motor enclosure. Ideally, weights and dimensions listed are the largest for each motor horsepower size likely to be encountered. More detailed "Certified for Construction" drawings are available upon request.

SSPB & SSPB/C PUMPS WITH ODP & TEFC STAINLESS STEEL PUMP BASE



SIZE	SUCTION	DISCHARGE	L	X	Y	MOTOR HP	AG ODP 1Ø	AG ODP 3Ø	SHIP WGT. ODP 1Ø//3Ø	AG TEFC 1Ø	AG TEFC 3Ø	SHIP WGT. TEFC 1Ø//3Ø
1SSPB/C	1.25 NPT	1.0 NPT	4.4	3.1	4.3	1/2	9.1	8.3	32 // 28	9.3	9.5	31 // 28
						3/4	9.9	8.7	35 // 29	9.8	9.5	38 // 29
						1.0	10.1	8.7	37 // 30	10.0	9.0	40 // 30
						1.5	10.3	9.1	42 // 32	10.5	11.1	46 // 43
						2.0	10.6	9.4	43 // 36	10.8	11.8	48 // 49
						3.0	11.4	10.2	46 // 42	11.3	13.0	55 // 57
2SSPB/C	1.5 NPT	1.25 NPT	4.3	3.0	4.4	1/2	9.1	8.3	32 // 28	9.3	9.5	31 // 28
						3/4	9.9	8.7	35 // 29	9.8	9.5	38 // 29
						1.0	10.1	8.7	37 // 31	10.0	9.0	40 // 31
						1.5	10.3	9.1	42 // 33	10.5	11.1	46 // 44
						2.0	10.6	9.4	46 // 37	10.8	11.8	48 // 50
						3.0	11.4	10.2	46 // 43	11.3	13.0	55 // 58
						5.0	NA	11.4	NA // 57	NA	NA	NA // NA
3SSPB/C	2.0 NPT	1.5 NPT	4.1	2.8	4.5	1/2	9.1	8.3	32 // 28	9.3	9.5	31 // 28
						3/4	9.9	8.7	35 // 29	9.8	9.5	38 // 29
						1.0	10.1	8.7	37 // 31	10.0	9.0	40 // 31
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						2.0	10.6	9.4	46 // 37	10.8	11.8	48 // 50
						3.0	11.4	10.2	46 // 43	11.3	13.0	55 // 58
						5.0	NA	11.4	NA // 57	NA	NA	NA // NA

*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.



SECTION A-A
SCALE 1 : 1.5

ITEM NO.	QTY.	DESCRIPTION	MATERIAL	OPTIONS
2	1	Motor Adaptor	304 SS	
3	4	Motor Bolts	18-8	
4	1	Seal Plate	304 SS	
5	1	Case O-Ring	Buna Std.	Viton & EPR
6	1	Mechanical Seal	Varies	See Seal Options
7	1	Impeller	304 SS	
8	1	Impeller O-Ring	Buna Std.	Viton & EPR
10	8	Case Screws	18-8	
11	1	Impeller LockScrew & Washer	18-8	For 3-phase & Exp. P. Motors
12	1	Casing	304 SS	



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