603-210-2479 MIKE@BONARDI.COM

TSP

TWO-STAGE STAINLESS STEEL CENTRIFUGAL PUMP

AMERICAN STAINLESS PUMPS, INC.

Stainless Steel Pumps for the Commercial Marketplace

R2 05/04/21

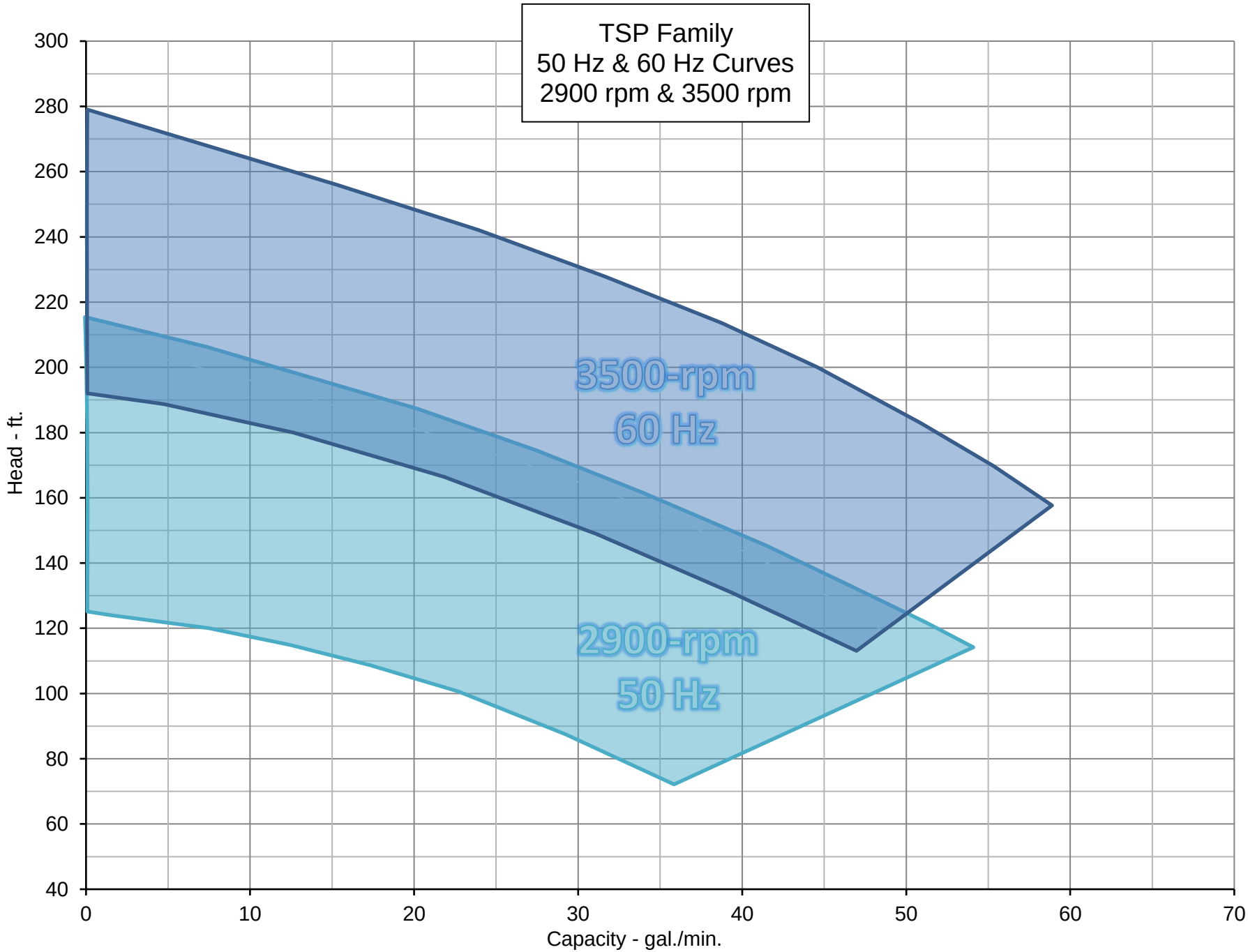
TSP

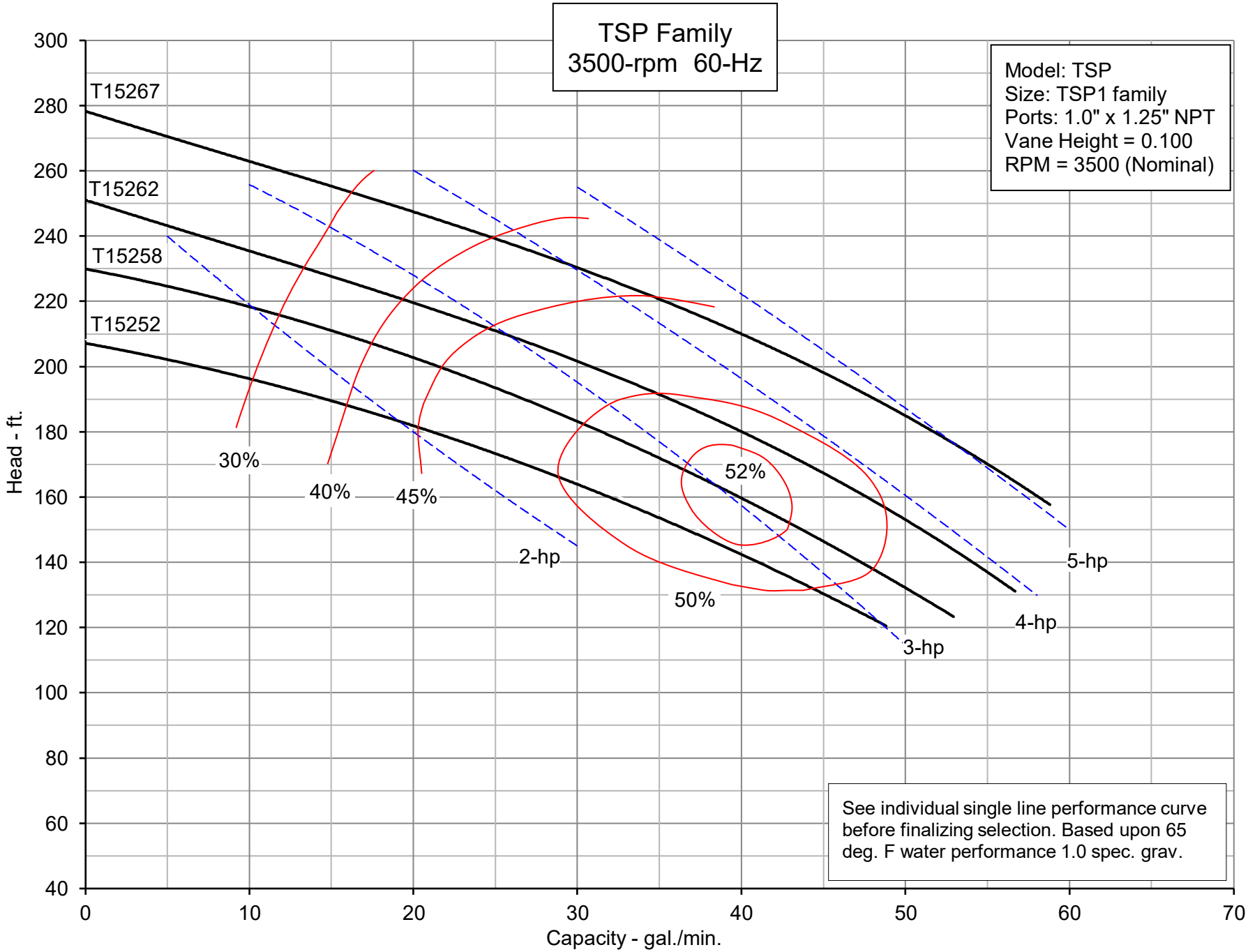
Two-Stage Stainless Steel Centrifugal Pump

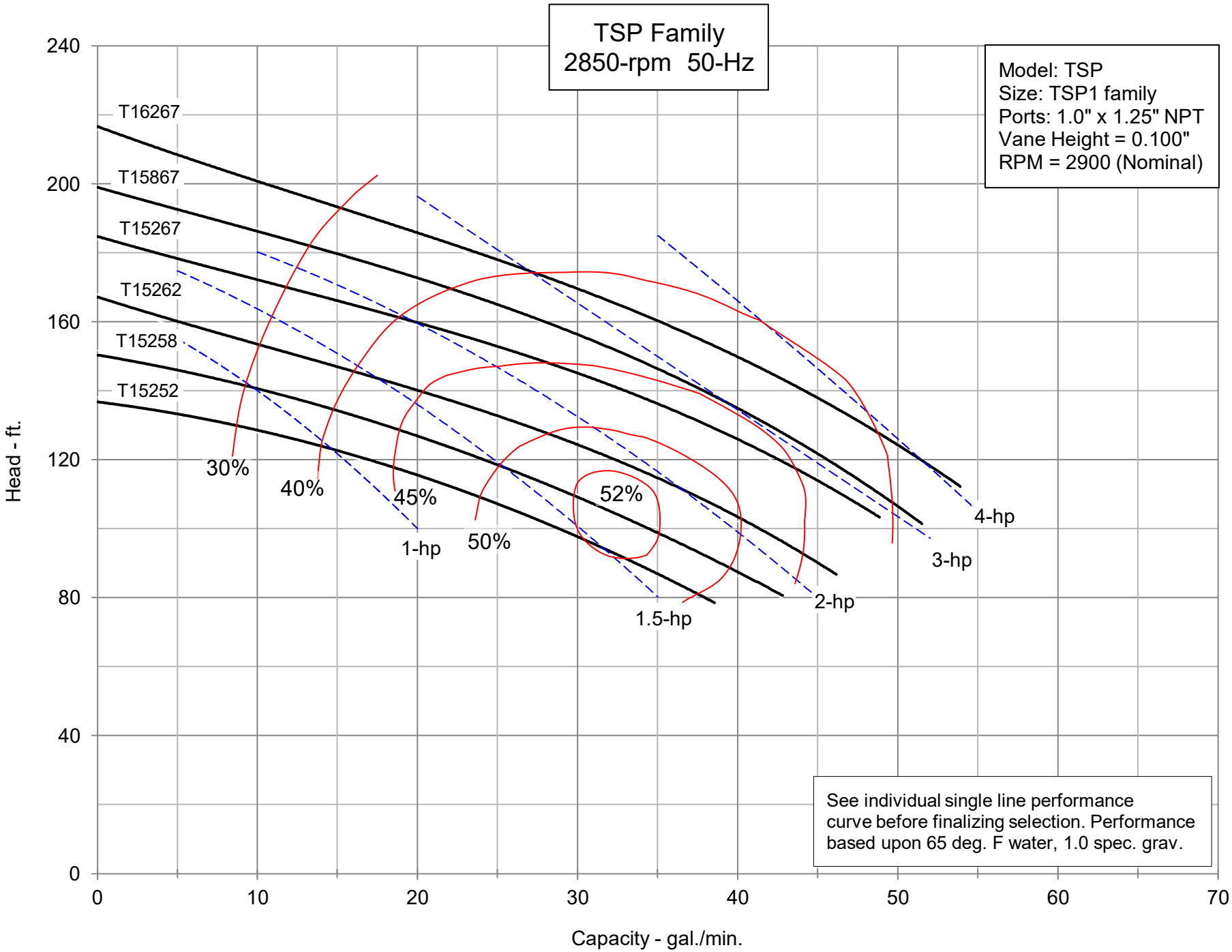
The Model TSP is a close-coupled, end suction, two stage, enclosed impeller, back pull-out, centrifugal pump. Suction and discharge connections are NPT threaded. All wetted metal pump parts are 18-8, 304SS or better. O-rings and elastomeric seal parts may be Buna, Viton, or EPR. Motors are specially built, based upon a NEMA 56 frame, with a C-Face mounting flange and an extended keyed shaft. All pumps use a mechanical seal to prevent leakage around the motor shaft.

Features

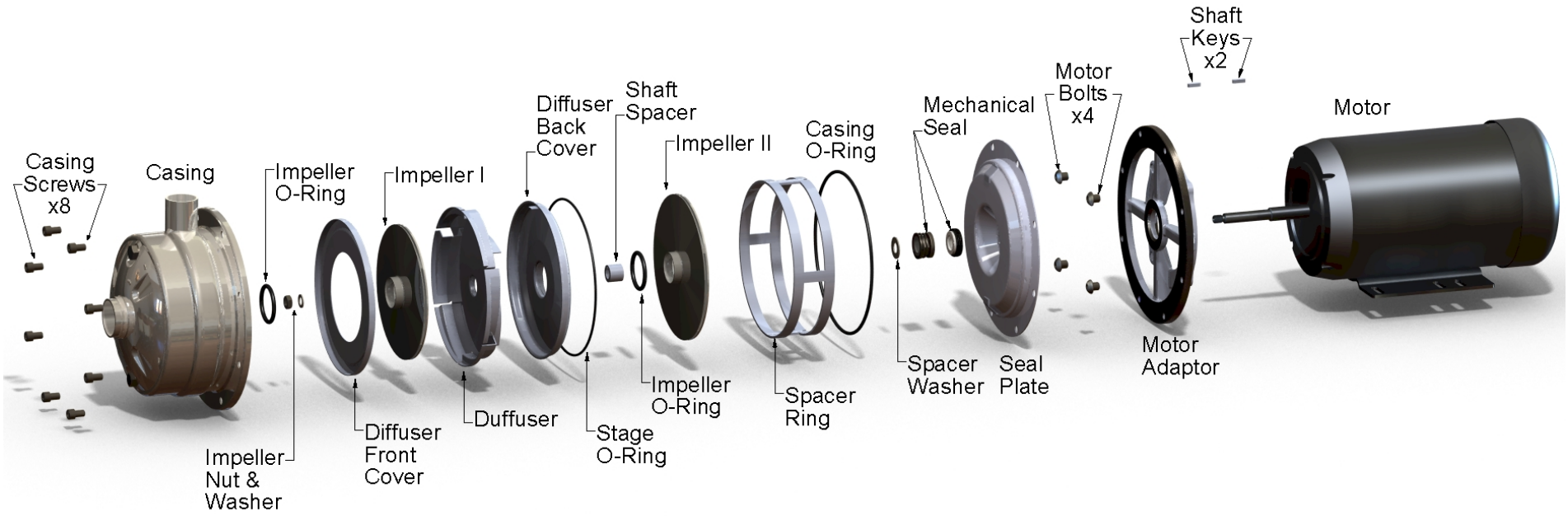
- Two stage pump produces heads up to 270 feet (117 psi with water).
- Flow Rates up to 60 gpm
- System pressures up to 120 psig
- Temperatures up to 250°F
- Impellers up to 6.7” in diameter
- Service in both 50 and 60Hz
- 56J Modified Frame: 3 and 5HP TEFC motors available from stock
- 1.0” x 1.25” NPT Connections
- Multiple mechanical seal configurations


TSP Family
50 Hz & 60 Hz Curves
2900 rpm & 3500 rpm
3500-rpm
60 Hz
2900-rpm
50 Hz
Head - ft.
300
280
260
240
220
200
180
160
140
120
100
80
60
40
0
10
20
30
40
50
60
70
Capacity - gal./min.

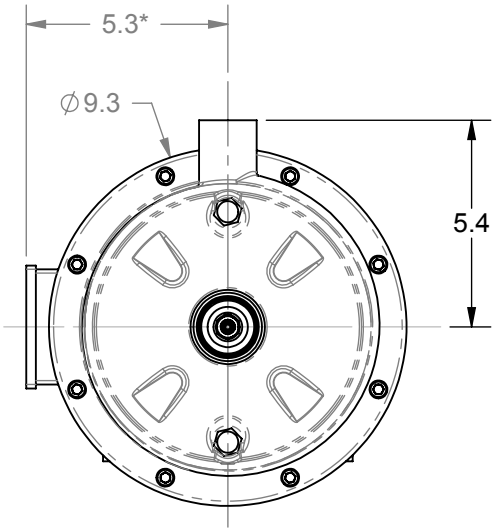

TSP Family
3500-rpm 60-Hz
Model: TSP
Size: TSP1 family
Ports: 1.0" x 1.25" NPT
Vane Height = 0.100
RPM = 3500 (Nominal)
T15267
T15262
T15258
T15252
30%
40%
45%
52%
50%
2-hp
3-hp
4-hp
5-hp
See individual single line performance curve before finalizing selection. Based upon 65 deg. F water performance 1.0 spec. grav.
Head - ft.
Capacity - gal./min.
300
280
260
240
220
200
180
160
140
120
100
80
60
40
0
10
20
30
40
50
60
70

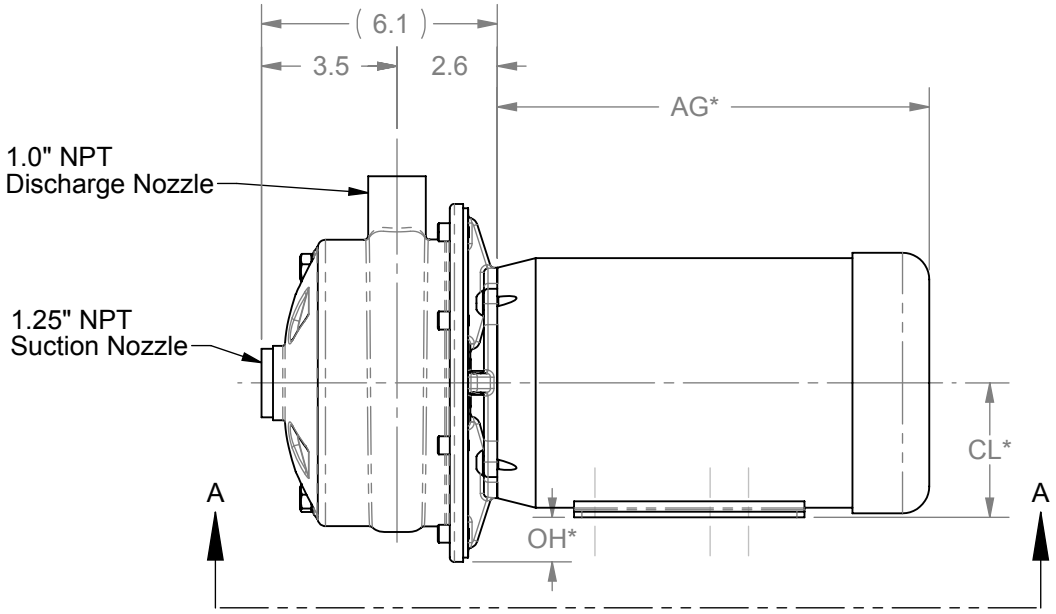

TSP Family
2850-rpm 50-Hz
Model: TSP
Size: TSP1 family
Ports: 1.0" x 1.25" NPT
Vane Height = 0.100"
RPM = 2900 (Nominal)
T16267
T15867
T15267
T15262
T15258
T15252
30%
40%
45%
50%
52%
1-hp
1.5-hp
2-hp
3-hp
4-hp
See individual single line performance curve before finalizing selection. Performance based upon 65 deg. F water, 1.0 spec. grav.
Head - ft.
Capacity - gal./min.
0
40
80
120
160
200
240
0
10
20
30
40
50
60
70

Model TSP
Exploded View



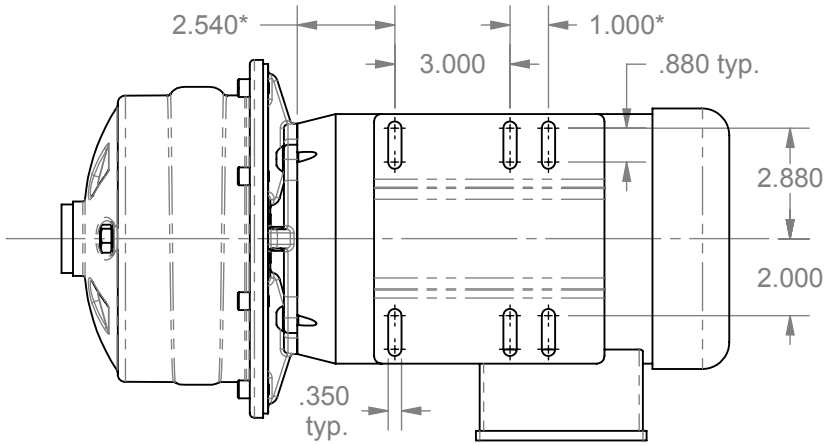
14032 S. Avalon Blvd. #C Los Angeles CA 90061
Phone (310) 630-8089 ~ Fax (310) 630-8095





Motor HP	Enc.	Power	AG	CL	OH	Lbs.
3	TEFC	3-phase 60-Hz	12.18	3.5	1.2	66
5	TEFC	3-phase 60 Hz	13.56	3.5	1.2	72

* May vary by motor manufacturer.



MOUNTING HOLES
SECTION A-A

REV.	REVISION DESCRIPTION	DATE
1	Updated Assembly Weight	1/10/17
0	ORIGINAL DOCUMENT	2/1/12

WHEN NOT NOTED OTHERWISE

ALL DIMENSIONS IN INCHES.
REMOVE ALL BURRS.
RADIAL & DIAMETRICAL DIMENSIONS ARE TO BE HELD TO A ±.002 SYMMETRICAL TOLERANCE, AND ARE CONCENTRIC WITH PART CENTERLINES.
CHAMFER MACHINED EDGES 0.03.
FILLET CORNERS 0.06
MACHINED FACES SURFACE FINISH 63.
QUESTIONS? CALL 310-630-8089.
EMAIL: MCOOL@ASPUMPS.COM

RELEASED FOR CONSTRUCTION? YES

TOLERANCES UNLESS OTHERWISE INDICATED

FRACTIONS	DECIMAL	ANGULAR
1/X ± 1/32	.X ± 0.015	X ± .5 °
1/XX ± 1/64	.XX ± 0.01	.X ± .1 °
	.XXX ± 0.005	.XX ± .02 °
	.XXXX ± 0.001	

MATERIAL: 304 SS Wetted Parts

MANUFACTURING PROCESS:

CAD GENERATED DRAWING NOT FOR CONSTRUCTION UNLESS INDICATED. DO NOT SCALE DRAWING.

AMERICAN STAINLESS PUMPS
LOS ANGELES, CALIFORNIA

PART NO.

SHEET NAME: Footed Motor

DRAWN BY: MWC
CHECKED BY: MFB
RELEASED BY: BOTH

FILE NAME: TSP Outline Drawing

REV. 1

DATE 1/10/17

SHEET: A | SCALE: 1:5 | PATH:

SHEET 1 OF 1

TSP Catalog Number Nomenclature

Rev. Date
5/15/2013

T 1 52 68 4 5 T 3 F — Sample code for a model TSP, size 1x1.25 with a 5.2" diameter impeller (1st Stage) and a 6.8" diameter impeller (2nd Stage) Carbon / Silicon Carbide / Viton, Type 16 mechanical seal, with a 5 HP, TEFC, 3/60/230-460V footed motor

1st Symbol	Pump Model	T = TSP: 304 SS, two-stage pump, threaded connections

2nd Symbol	Size Code	1 = 1.0" x 1.25" NPT female threaded nozzles

3rd & 4th Symbol	1st Stage Impeller Diameter	Digits indicate impeller diameter in inches (decimal form) Examples: 52 = 5.2" and 68 = 6.8"

5th & 6th Symbol	2nd Stage Impeller Diameter	Digits indicate impeller diameter in inches (decimal form) Examples: 52 = 5.2" and 68 = 6.8"

7th Symbol — Mechanical Seal Type & Materials

Material Index
Material Format:
Rotating Face **/** Stationary Face **/** Elastomer
Car = Carbon
Cer = Ceramic
SiC = Silicon Carbide

Type 16			**Type 21**	
B = Car/Cer/Buna	Stock		Consult Factory	
E = Car/Cer/EPR	Stock			
V= Car/Cer/Viton	Stock			
4= Car/SiC/Viton	Stock	Standard		
5= Car/SiC/EPR	Stock			
6= SiC/SiC/Buna	Stock			
7= SiC/SiC/EPR	Stock			
8= SiC/SiC/Viton	Stock			
X = Special				

Note: Standard case and impeller o-ring material will match seal elastomer as selected above.

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	

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

10th Symbol — Motor Power Details

Power Rating	**3500 RPM**	**1750 RPM**	**2900 RPM**
1/60/115-230V	1	A	
1/60/230V	2	B	
3/60/230-460V	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 Code. Consult factory for pricing and details. May Indicate special OEM configuration.

F = Footed Motor
T = Thermal Overload Protection (3 phase motors only)
X = Special - Consult factory with serial number