# **SPXFLOW**

# V<sup>2</sup> Series

CENTRIFUGAL PUMPS







APV Fluid Handling offers an economical solution to an increasing range of pumping applications: the V<sup>2</sup> Series — a simplified, maintenance-friendly and efficient centrifugal pump featuring a four-blade, fully open, nonclog impeller that is the optimum design for sanitary service.

SPX FLOW, Inc. (NYSE:FLOW) is a leading manufacturer of innovative flow technologies, many of which help define the industry standard in the market segments they serve. From its headquarters in Charlotte, North Carolina, it operates a sales and support network, centers of manufacturing excellence, and advanced engineering facilities, throughout the world. Its cutting-edge flow components and process equipment portfolio includes a wide range of pumps, valves, heat exchangers, mixers, homogenizers, separators, filters, UHT, and drying technology that meet many application needs. Its expert engineering capability also makes it a premium supplier of customized solutions and complete, turn-key packages to meet the most exacting of installation demands.

Incorporating many leading brands, SPX FLOW has a long history of serving the food and beverage, power and energy, and industrial market sectors. Its designs and engineered solutions help customers drive efficiency and productivity, increase quality and reliability, and meet the latest regulatory demands. In-depth understanding of applications and processes, state-of-the-art Innovation Centers, and advanced pilot/testing technology further assist in optimizing processes and reducing timescales to reliably meet production targets.

To learn more about SPX FLOW capabilities, its latest technology innovations and complete service offerings, please visit www.spxflow.com.

## Sanitary Centrifugal Pumps - V<sup>2</sup> Series

#### **FEATURES AND BENEFITS**

- Meets all standards: Sanitary models are manufactured from FDA approved materials, meet the requirements of the 3-A Sanitary Standards, carry the BISSC seal of approval and are approved by the USDA Meat and Poultry Division.
- Choice of seal types: the V<sup>2</sup> pumps are available with three different seal types to accommodate various applications and ensure optimum seal performance for the product being pumped. The standard product seal for all models is Type 1, a positive drive, single mechanical design.
- Hydraulically balanced and externally mounted. It suits general purpose applications such as milk products, beverages, fruit juices, organic acids, alcohols, process water and vegetable oils.
- Engineered for in-place cleaning: All V<sup>2</sup> Series Centrifugal Pumps are engineered for modern cleaning and sanitizing techniques. The square impeller drive has grooves that allow circulation of cleaning and sanitizing solutions along the shaft and behind the impeller. The separate impeller and shaft design enhances cleaning and inspection. Pump disassembly is quick and easy for complete manual cleaning and inspection. Parts and assemblies are not difficult to align. No special tools are required.

#### **MATERIALS**

The casing has controlled wall thickness and dimensional accuracy throughout. The back plate is machined from stainless steel plate. A unique clamping assembly uses clamp rings with a self-locking internal angle that resists distortion and provides optimum sealing between the casing and back plate. The clamp rings are investment cast for greater strength than stamped clamp rings common to many sanitary pumps. A replaceable seat is provided in the back plate with optional seal types #2 and #5. This is reversible, providing a new wear surface without part replacement.



## Typical product applications

#### **Food and Beverage**

Fruit Juices

Water

Beer

Organic Acids

Alcohols

Beverage Syrups

Tallow



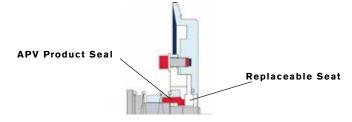
#### **OPTIONS AND ACCESSORIES**

#### **Connections**

- Butt weld, plus five sanitary ferrule options
- 150 lb ANSI flange and male pipe thread for non-sanitary applications

#### **Seal Options**

- Type 2 APV product seal/ replaceable seat
  - Replaceable seat provides a harder, wear-resistant stationary seat for extended life
- Cascade Water Flush
  - For Type 1 and Type 2
  - Recommended for products containing fines or particulates: brines; low vacuums; where caramelization may occur (liquid sugars, HFCS, honey, syrups, molasses); and where flush water can discharge onto floor
- Type 5 contained water flush double seals (APV & John Crane)/ replaceable seat
  - Double inside/outside APV hydraulically balanced inside; John Crane 8B2 hydraulically balanced outside



#### **Other Pump Options**

- Non-polished stainless steel surface (industrial applications)
- Case drain connections
- Stainless steel and painted carbon steel assemblies
- Stainless steel leg kit

#### **Dairy**

Milk

Cream

Ice Cream Mix

# A

#### **Emulsions**

Sauces

Ketchup

Vinegar

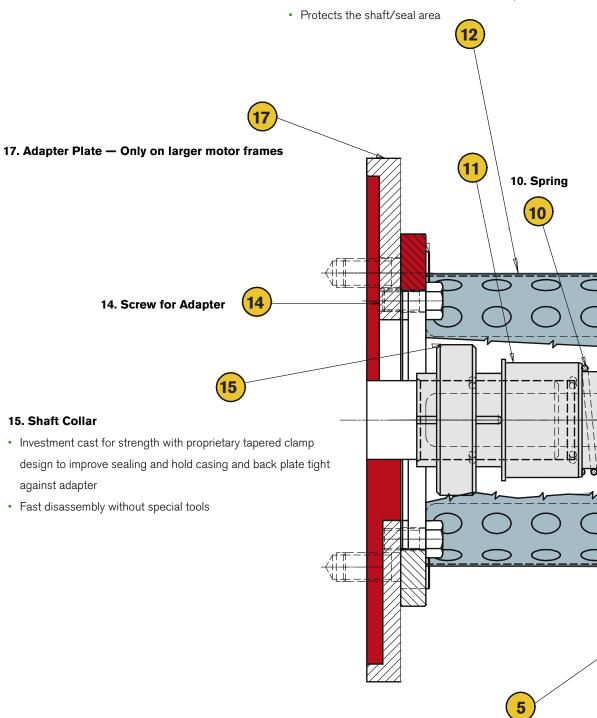
Brine Edible Oils

Yeast Slurry



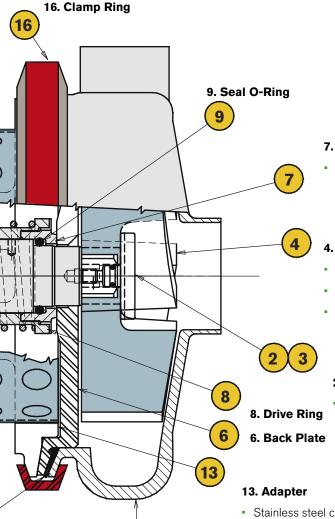
#### 12. Safety Guard

Perforated stainless steel meets OSHA requirements



#### 5. Casing Gasket

 Fully retained with roll bead on the gasket back which seals in the back plate groove for trouble-free positioning and sealing



#### 7. Shaft Seal

 Standard Type 1 seal is a single mechanical, externally mounted APV design with rotating carbon seat and stationary 316 stainless steel back plate. All seals are hydraulically balanced and positive driven

#### 4. Impeller

- One piece design with 4-blade, reverse curve configuration
- Open impeller eye area improves pumping efficiency and lowers NPSHR
- Square shaft and hub design promotes easy assembly/disassembly and provides maximum driving contact surface

#### 2 & 3. Impeller Pin and O-Ring

Stainless steel, attaches directly to the end of the shaft

- Stainless steel construction for strength and rigidity
- Large access for shaft positioning

#### 1. Casing

- Heavy, single piece investment casting with uniform wall thickness
- Volute design provides good efficiency over a wide range of operating conditions
- Discharge can be rotated through 360°
- Interior of casing is free of sharp corners for easy, complete cleaning

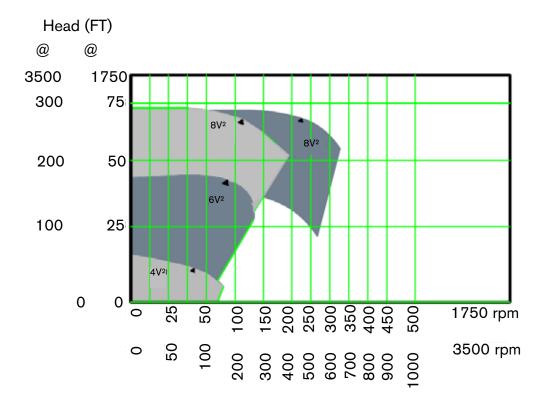
#### **SPECIFICATIONS**

Data summary listed are inlet, outlet and impeller sizes, along with the Best Efficiency Point and shut-off head for each model. Capacity (Q) shown in U.S. gpm. Impeller diameter shown is maximum. Certified dimensional drawings are available on request.

PUMP MODELS	UNIT	PUMP CASING		PERFORMANCE AT B.E.P.						
		INLET X OUTLET	MAXIMUM IMPELLER SIZE	1750	RPM	3500 RPM				
				- Q - GPM M³/HR	- HEAD - FT METERS	- Q - GPM M³/HR	- HEAD - FT Meters			
	in	1.5 X 1.5	3.8	37	13	74	45			
4 V <sup>2</sup>	mm	38 X 38	97	8.4	5	16.8	13.7			
4 V 2	in	2 X 1.5	3.8	42	13	84	52			
4 V -	mm	51 X 38	97	9.5	4	19.1	15.8			
6V²	in	2 X 1.5	5.8	85	33	158	143			
6.6.2	mm	51 X 38	148	19.3	10	35.9	43.6			
6V²	in	2.5 X 1.5	5.8	80	36	160	144			
6 4 -	mm	63 X 38	148	18.2	11	36.3	43.9			
8V²	in	2 X 1.5	7.8	117	37	234	266			
8 4 -	mm	51 X 38	200	26.6	20.4	53.2	81.7			
8V²	in	3 X 2	7.8	137	63	274	252			
8 7 -	mm	76 X 51	200	31.1	19.2	62.2	76.8			
8VS <sup>2</sup>	in	3 X 2	7.8	231	63	462	252			
0 V 3 2	mm	76 X 51	200	52.5	19.2	104.9	76.8			

#### **ADDITIONAL TECHNICAL DATA**

#### FLOW, HEAD (BEST EFFICIENCY POINT) @ RPM



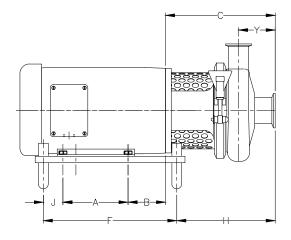
Composite Performance Curves for the V<sup>2</sup> Series

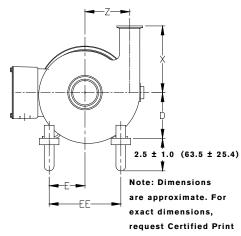
The arrows indicate the Best Efficiency Point (B.E.P.) for various pump models.

Individual performance curves are available upon request.

#### **DIMENSIONS**

\* These dimensions are based on smallest size inlet and outlet with S-Line connections and standard TEFC motor. Refer to factory supplied drawings for detailed dimensions showing other connection sizes and types





PUMP Size	MOTOR FRAME	A	В	С	D	E	F	н	J	х	Y	z
							IN (mm)					
4V <sup>2</sup> (1.5X1.5)	56C	<b>3.00</b> (76.20)	<b>2.75</b> (69.85)	<b>7.26</b> (184.40)	<b>3.50</b> (88.9)	<b>2.44</b> (61.98)	<b>8.50</b> (215.90)	<b>6.01</b> (152.65)	<b>1.50</b> (38.10)	<b>4.23</b> (107.44)	<b>2.64</b> (67.06)	<b>2.44</b> (61.98)
	143TC	<b>4.00</b> (101.60)	<b>2.25</b> (57.15)	<b>7.26</b> (184.40)	<b>3.50</b> (88.9)	<b>2.75</b> (69.85)	<b>10.25</b> (260.35)	<b>5.76</b> (146.30)	<b>2.50</b> (63.50)	<b>4.23</b> (107.44)	<b>2.64</b> (67.06)	<b>2.44</b> (61.98)
	145TC	<b>5.00</b> (127.00)	<b>2.25</b> (57.15)	<b>7.26</b> (184.40)	<b>3.50</b> (88.9)	<b>2.75</b> (69.85)	<b>10.25</b> (260.35)	<b>5.76</b> (146.30)	<b>1.50</b> (38.10)	<b>4.23</b> (107.44)	<b>2.64</b> (67.06)	<b>2.44</b> (61.98)
	182TC	<b>4.50</b> (114.30)	<b>2.75</b> (69.85)	<b>7.85</b> (199.39)	<b>4.50</b> (114.3)	<b>3.75</b> (95.25)	<b>11.37</b> (288.80)	<b>6.23</b> (158.24)	<b>2.50</b> (63.50)	<b>4.23</b> (107.44)	<b>2.64</b> (67.06)	<b>2.44</b> (61.98)
	184TC	<b>5.50</b> (139.70)	<b>2.75</b> (69.85)	<b>7.85</b> (199.39)	<b>4.50</b> (114.3)	<b>3.75</b> (95.25)	<b>11.37</b> (288.80)	<b>6.23</b> (158.24)	<b>1.50</b> (38.10)	<b>4.23</b> (107.44)	<b>2.64</b> (67.06)	<b>2.44</b> (61.98)
	56C	<b>3.00</b> (76.20)	<b>2.75</b> (69.85)	<b>8.32</b> (211.33)	<b>3.50</b> (88.9)	<b>2.44</b> (61.98)	<b>8.50</b> (215.90)	<b>7.19</b> (182.63)	<b>1.50</b> (38.10)	<b>5.13</b> (130.30)	<b>2.81</b> (71.37)	<b>3.44</b> (87.38)
6V <sup>2</sup> (2x1.5)	143TC	<b>4.00</b> (101.60)	<b>2.25</b> (57.15)	<b>8.32</b> (211.33)	<b>3.50</b> (88.9)	<b>2.75</b> (69.85)	<b>10.25</b> (260.35)	<b>6.82</b> (173.23)	<b>2.50</b> (63.50)	<b>5.13</b> (130.30)	<b>2.81</b> (71.37)	<b>3.44</b> (87.38)
	145TC	<b>5.00</b> (127.00)	<b>2.25</b> (57.15)	<b>8.32</b> (211.33)	<b>3.50</b> (88.9)	<b>2.75</b> (69.85)	<b>10.25</b> (260.35)	<b>6.82</b> (173.23)	<b>1.50</b> (38.10)	<b>5.13</b> (130.30)	<b>2.81</b> (71.37)	<b>3.44</b> (87.38)
	182TC	<b>4.50</b> (114.30)	<b>2.75</b> (69.85)	<b>8.91</b> (226.31)	<b>4.50</b> (114.3)	<b>3.75</b> (95.25)	<b>11.37</b> (288.80)	<b>7.29</b> (185.17)	<b>2.50</b> (63.50)	<b>5.13</b> (130.30)	<b>2.81</b> (71.37)	<b>3.44</b> (87.38)
	184TC	<b>5.50</b> (139.70)	<b>2.75</b> (69.85)	<b>8.91</b> (226.31)	<b>4.50</b> (114.3)	<b>3.75</b> (95.25)	<b>11.37</b> (288.80)	<b>7.29</b> (185.17)	<b>1.50</b> (38.10)	<b>5.13</b> (130.30)	<b>2.81</b> (71.37)	<b>3.44</b> (87.38)
	213TC	<b>5.50</b> (139.70)	<b>3.50</b> (88.90)	<b>8.91</b> (226.31)	<b>5.25</b> (133.35)	<b>4.25</b> (107.95)	<b>13.88</b> (352.55)	<b>7.03</b> (178.56)	<b>3.00</b> (76.20)	<b>5.13</b> (130.30)	<b>2.81</b> (71.37)	<b>3.44</b> (87.38)
	215TC	<b>7.00</b> (177.80)	<b>3.50</b> (88.90)	<b>8.91</b> (226.31)	<b>5.25</b> (133.35)	<b>4.25</b> (107.95)	<b>13.88</b> (352.55)	<b>7.03</b> (178.56)	<b>1.50</b> (38.10)	<b>5.13</b> (130.30)	<b>2.81</b> (71.37)	<b>3.44</b> (87.38)
	254TC	<b>8.25</b> (209.55)	<b>4.25</b> (107.95)	9.66 (245.36)	<b>6.25</b> (152.40)	<b>5.00</b> (127)	<b>18.00</b> (457.20)	<b>7.41</b> (188.21)	<b>3.25</b> (82.55)	<b>5.13</b> (130.30)	<b>2.81</b> (71.37)	<b>3.44</b> (87.38)
	256TC	<b>10.00</b> (254.00)	<b>4.25</b> (107.95)	9.66 (245.36)	<b>6.25</b> (152.40)	<b>5.00</b> (127)	<b>18.00</b> (457.20)	<b>7.41</b> (188.21)	<b>1.50</b> (38.10)	<b>5.13</b> (130.30)	<b>2.81</b> (71.37)	<b>3.44</b> (87.38)
8V <sup>2</sup> (2x1.5)	143TC	<b>4.00</b> (101.60)	<b>2.25</b> (57.15)	<b>9.32</b> (236.73)	<b>3.50</b> (88.9)	<b>2.75</b> (69.85)	<b>10.25</b> (260.35)	<b>7.82</b> (198.63)	<b>2.50</b> (63.50)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
	145TC	<b>5.00</b> (127.00)	<b>2.25</b> (57.15)	9.32 (236.73)	<b>3.50</b> (88.9)	<b>2.75</b> (69.85)	<b>10.25</b> (260.35)	<b>7.82</b> (198.63)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
	182TC	<b>4.50</b> (114.30)	<b>2.75</b> (69.85)	<b>9.91</b> (251.71)	<b>4.50</b> (114.3)	<b>3.75</b> (95.25)	<b>11.37</b> (288.80)	<b>8.29</b> (210.57)	<b>2.50</b> (63.50)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
	184TC	<b>5.50</b> (139.70)	<b>2.75</b> (69.85)	<b>9.91</b> (251.71)	<b>4.50</b> (114.3)	<b>3.75</b> (95.25)	<b>11.37</b> (288.80)	<b>8.29</b> (210.57)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
	213TC	<b>5.50</b> (139.70)	<b>3.50</b> (88.90)	<b>9.91</b> (251.71)	<b>5.25</b> (133.35)	<b>4.25</b> (107.95)	<b>13.88</b> (352.55)	<b>8.03</b> (203.96)	<b>3.00</b> (76.20)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
	215TC	<b>7.00</b> (177.80)	<b>3.50</b> (88.90)	<b>9.91</b> (251.71)	<b>5.25</b> (133.35)	<b>4.25</b> (107.95)	<b>13.88</b> (352.55)	<b>8.03</b> (203.96)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
	254TC	<b>8.25</b> (209.55)	<b>4.25</b> (107.95)	<b>9.91</b> (251.71)	<b>6.25</b> (152.40)	5.00 (127)	<b>18.00</b> (457.20)	<b>7.66</b> (194.56)	<b>3.25</b> (82.55)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
	256TC	<b>10.00</b> (254.00)	<b>4.25</b> (107.95)	9.91 (251.71)	<b>6.25</b> (152.40)	5.00 (127)	<b>18.00</b> (457.20)	<b>7.66</b> (194.56)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
	284TSC	<b>9.50</b> (241.30)	<b>4.75</b> (120.65)	<b>10.28</b> (261.11)	<b>7.00</b> (177.8)	<b>5.50</b> (139.7)	<b>19.00</b> (482.60)	<b>8.53</b> (216.66)	<b>3.00</b> (76.20)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
	286TSC	<b>11.00</b> (279.40)	<b>4.75</b> (120.65)	<b>10.28</b> (261.11)	<b>7.00</b> (177.8)	<b>5.50</b> (139.7)	<b>19.00</b> (482.60)	<b>8.53</b> (216.66)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
	324TSC	<b>10.50</b> (266.70)	<b>5.25</b> (133.35)	<b>10.47</b> (265.94)	8.00 (203.2)	<b>6.25</b> (152.40)	<b>20.50</b> (520.70)	<b>8.72</b> (221.49)	<b>3.00</b> (76.20)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
	326TSC	<b>12.00</b> (304.80)	<b>5.25</b> (133.35)	<b>10.47</b> (265.94)	<b>8.00</b> (203.2)	<b>6.25</b> (152.40)	<b>20.50</b> (520.70)	<b>8.72</b> (221.49)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.00</b> (76.20)	<b>4.44</b> (112.78)
8VS <sup>2</sup>	143TC	<b>4.00</b> (101.60)	<b>2.25</b> (57.15)	9.75 (247.65)	<b>3.50</b> (88.9)	<b>2.75</b> (69.85)	<b>10.25</b> (260.35)	<b>8.25</b> (209.55)	<b>2.50</b> (63.50)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)
	145TC	<b>5.00</b> (127.00)	<b>2.25</b> (57.15)	<b>9.75</b> (247.65)	<b>3.50</b> (88.9)	<b>2.75</b> (69.85)	<b>10.25</b> (260.35)	<b>8.25</b> (209.55)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)
	182TC	<b>4.50</b> (114.30)	<b>2.75</b> (69.85)	<b>10.34</b> (262.64)	<b>4.50</b> (114.3)	<b>3.75</b> (95.25)	<b>11.37</b> (288.80)	<b>8.72</b> (221.49)	<b>2.50</b> (63.50)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)
	184TC	<b>5.50</b> (139.70)	<b>2.75</b> (69.85)	<b>10.34</b> (262.64)	<b>4.50</b> (114.3)	<b>3.75</b> (95.25)	<b>11.37</b> (288.80)	<b>8.72</b> (221.49)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)
	213TC	<b>5.50</b> (139.70)	<b>3.50</b> (88.90)	<b>10.34</b> (262.64)	<b>5.25</b> (133.35)	<b>4.25</b> (107.95)	<b>13.88</b> (352.55)	<b>8.46</b> (214.88)	<b>3.00</b> (76.20)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)
	215TC	<b>7.00</b> (177.80)	<b>3.50</b> (88.90)	<b>10.34</b> (262.64)	<b>5.25</b> (133.35)	<b>4.25</b> (107.95)	<b>13.88</b> (352.55)	<b>8.46</b> (214.88)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)
(3x2)	254TC	<b>8.25</b> (209.55)	<b>4.25</b> (107.95)	<b>10.34</b> (262.64)	<b>6.25</b> (152.40)	5.00 (127)	<b>18.00</b> (457.20)	<b>8.09</b> (205.49)	<b>3.25</b> (82.55)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)
	256TC	10.00 (254.00)	<b>4.25</b> (107.95)	<b>10.34</b> (262.64)	<b>6.25</b> (152.40)	5.00 (127)	<b>18.00</b> (457.20)	<b>8.09</b> (205.49)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)
	284TSC	9.50 (241.30)	<b>4.75</b> (120.65)	<b>10.72</b> (272.29)	<b>7.00</b> (177.8)	<b>5.50</b> (139.7)	<b>19.00</b> (482.60)	<b>8.97</b> (227.84)	<b>3.00</b> (76.20)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)
	286TSC	<b>11.00</b> (279.40)	<b>4.75</b> (120.65)	<b>10.72</b> (272.29)	<b>7.00</b> (177.8)	<b>5.50</b> (139.7)	<b>19.00</b> (482.60)	<b>8.97</b> (227.84)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)
	324TSC	10.50 (266.70)	<b>5.25</b> (133.35)	<b>10.91</b> (277.11)	8.00 (203.2)	<b>6.25</b> (152.40)	<b>20.50</b> (520.70)	9.16 (232.66)	<b>3.00</b> (76.20)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)
	326TSC	<b>12.00</b> (304.80)	<b>5.25</b> (133.35)	<b>10.91</b> (277.11)	8.00 (203.2)	<b>6.25</b> (152.40)	<b>20.50</b> (520.70)	9.16 (232.66)	<b>1.50</b> (38.10)	<b>7.13</b> (181.10)	<b>3.25</b> (82.55)	<b>4.63</b> (117.60)

<sup>\*\*</sup>Shipping weight approximate and does not include motor.

V<sup>2</sup> Series

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