5PXFLOW

1-847-839-8442

www.triplexsales.com



S200 Series

Triplex Sales

CENTRIFUGAL PUMPS - DESIGNED FOR THE BIO-PHARMACEUTICAL INDUSTRY













> Waukesha Cherry-Burrell®

The Waukesha Cherry-Burrell brand S200 series pumps, are ideal for pharmaceutical applications. The pumps come standard with a machined from solid stainless steel bar body eliminating "rouging" typically associated with cast pumps, material heat numbers and a documentation package. The unique design of the pump mounted to a JM pump motor provides a short over-hung load with a one size seal that fits in all models, reducing maintenance and increasing the flexibility of your inventory. SPX FLOW offers a complete range of centrifugal pumps to meet your needs. When it comes to know-how, experience and vast product range within the field of hygienic pumps, look to SPX FLOW to help solve your toughest application challenges.

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 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.

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S200 Series Centrifugal Pumps

Product contact components are machined from wrought less than 5% ferrite level, 316L SS and feature a 20 Ra product contact surface finish. Material heat numbers are available on all product contact components.

FEATURES AND BENEFITS

STANDARD

- Designed to be Cleanable-in-Place (CIP)
- High efficiency, low NPSHR design for a wide variety of applications.
- One size mechanical seal for all S200 Series models; reducing parts inventory and cost (commercial seals available)
- Integral impeller/shaft design for fewer parts, greater concentricity and easy maintenance
- Close coupled pumps use NEMA JM Frame motors with larger diameter shafts and bearings (compared to C Frame motors)
- Horizontal, vertical and 45° angle discharge port orientation available
- Impellers, casing, and backplate are machined from wrought 316L SS
- Stainless steel motor adapters
- Reduced validation time
- Documentation package
- FDA approved fluroelastomers
- USP Class VI elastomers
- 3-A approved and EHEDG certified

OPTIONS

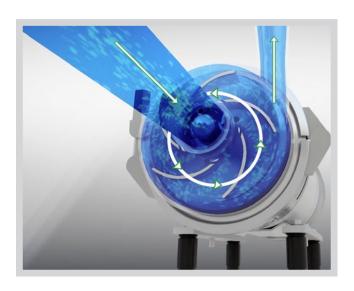
- 15 or 20 Ra., electropolish and passivation product contact surface finishes
- Double mechanical seals
- Casing drain
- SS motors
- USP Class VI elastomers
- Stainless steel motors
- SS Leg Kits
- Ra Mapping
- Certified and witness performance testing
- Pedestal mounted pumps
- Stainless steel bases and coupling guards



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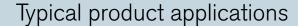
THEORY OF OPERATION

Low viscous fluids enter through the center inlet and flow around the impeller which turns at various speeds based on application requirements. The fluid then moves to the outer extents of the impeller vanes by centrifugal force and is directed through the outlet. As with other SPX FLOW centrifugal pumps, impeller and casing designs are optimized to perform more efficiently over a wide range of operating conditions. The casing and port are further designed to maximize performance under low NPSH conditions.



MATERIAL SPECIFICATIONS

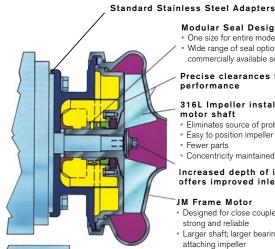
S200 Exploded View



Pharmaceutical Processing

USP Purified Water USP Water for Injection Buffer Distribution & Transfer Low Viscosity Product Transfer CIP Solutions





- Modular Seal Design One size for entire model range
- Wide range of seal options including commercially available seals

Precise clearances for optimum performance

316L Impeller installs directly to motor shaft

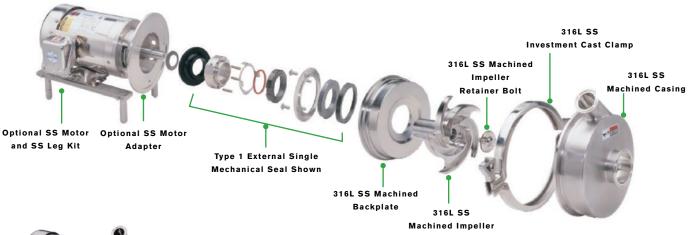
- Eliminates source of problems in other designs
- Easy to position impeller
- Fewer parts
- · Concentricity maintained

Increased depth of impeller eye offers improved inlet characteristics

JM Frame Motor

- Designed for close coupled pumps; strong and reliable
- Larger shaft; larger bearing director attaching impeller
- · Impeller close to bearing

316L Casing - Rugged, strong construction with consistent dimensions









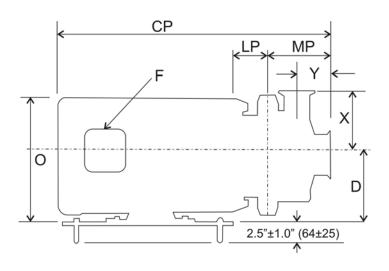
Wet-end components are made from wrought 316SS, (UNS 31603) bar or flat stock with composition and manufacturing process controls that limit delta ferrite content to less than 5%.

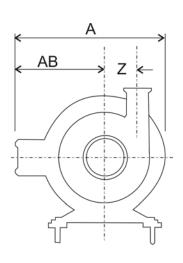


PRODUCT SPECIFICATIONS

MODEL	INLET SIZE		OUTLET SIZE IMPELLER SIZE INCHES	MAXIMUM IMPELLER SIZE INCHES	GF	CAPACITY PM (HR)	MAXIMUM HEAD FEET FEET (METERS)	
	(mm)		(mm)	(mm)	1750 RPM	3500 RPM	1750 RPM	3500 RPM
S2045		2.0 (50)	1.5 (40)	4.5 (114)	97 (22)	190 (43)	22 (6)	88 (27)
S2065LV		2.5 (65)	1.5 (40)	6.5 (165)	100 (23)	195 (44)	44 (13)	173 (53)
\$2065	2.5 (65)		2.0 (50)	6.5 (165)	245 (56)	450 (102)	46 (14)	180 (55)
S2065HV	3.0 (75)		2.0 (50)	6.5 (165)	230 (52)	500 (114)	44 (13)	180 (55)
S2075	3.0 (75)		1.5 (40)	8.7 (221)	125 (28)	300 (68)	79 (24)	320 (97)
S2085		4.0 (100)	2.5 (65)	8.7 (221)	490 (111)	900 (204)	80 (24)	312 (95)
S2085LV	2.0 (50)		1.5 (40)	8.7 (221)	70 (16)	140 (32)	81 (24)	310 (94)
\$2092	3.0 (75)		2.0 (50)	9.25 (235)	380 (86)	700 (159)	90 (27)	362 (110)

PRODUCT DIMENSIONS





FRAME	A INCH (MM)	O INCH (MM)	D INCH (MM)	F INCH (MM)	AB Inch (MM)
145JM	9.32 (237)	7.1 (180)	3.5 (89)	0.88 (22)	5.73 (145)
182JM	9.32 (237)	8.1 (206)	4.5 (114)	0.88 (22)	5.73 (145)
184JM	11.11 (282)	8.49 (216)	4.5 (114)	1.09 (28)	6.87 (174)
213JM	13.18 (335)	10.39 (264)	5.25 (133)	1.38 (35)	8.04 (204)
215JM	13.18 (335)	10.39 (264)	5.25 (133)	1.38 (35)	8.04 (204)
254JM	15.34 (390)	11.39 (289)	6.25 (159)	1.38 (35)	9.40 (239)
256JM	15.34 (390)	11.39 (289)	6.25 (159)	1.38 (35)	9.40 (239)
284JM	20.78 (528)	14.44 (367)	7.0 (178)	2.0 (51)	13.12 (333)
286JM	20.49 (520)	14.44 (367)	7.0 (178)	2.0 (51)	13.12 (333)
324JM	23.05 (585)	16.25 (413)	8.0 (203)	2.5 (63)	14.61 (371)
326JM	23.05 (585)	16.25 (413)	8.0 (203)	2.5 (63)	14.61 (371)



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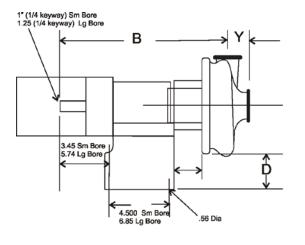
FRAME	PUMP SIZE								
	S2	S2045		\$2065		S2065LV		S2065HV	
	LP	СР	LP	СР	LP	СР	LP	СР	
	Inches (mm)								
145JM	2.92 (74)	18.18 (461)	2.71 (69)	18.43 (468)	2.71 (69)	17.93 (455)	2.71 (69)	18.85 (479)	
182JM	2.92 (74)	19.56 (497)	2.71 (69)	19.81 (503)	2.71 (69)	19.31 (490)	2.71 (69)	20.23 (514)	
184JM	2.92 (74)	20.81 (529)	2.71 (69)	21.01 (534)	2.71 (69)	20.56 (522)	2.71 (69)	21.43 (544)	
213JM			2.97 (75)	22.81 (579)	2.97 (75)	22.31 (567)	2.97 (75)	23.23 (590)	
215JM			2.97 (75)	23.94 (608)	2.97 (75)	23.44 (595)	2.97 (75)	24.36 (618)	
254JM			3.97 (101)	26.07 (662)	3.97 (101)	25.57 (649)	3.97 (101)	26.49 (673)	
256JM			3.97 (101)	27.83 (707)	3.97 (101)	27.33 (694)	3.97 (101)	28.25 (718)	
284JM			3.97 (101)	31.43 (798)	3.97 (101)	30.93 (786)	3.97 (101)	31.85 (809)	
286JM			3.97 (101)	31.64 (804)	3.97 (101)	31.14 (791)	3.97 (101)	32.06 (814)	
324JM									
326JM									

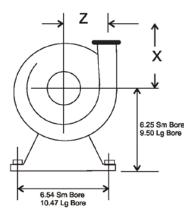
FRAME		PUMP SIZE								
	\$2	S2075		S2085		\$2085LV		S 2092		
	LP	СР	LP	СР	LP	СР	LP	СР		
	Inches (mm)									
145JM	2.75 (70)	18.17 (461)	2.75 (70)	18.84 (478)	2.75 (70)	18.17 (461)	2.75 (70)	18.78 (477)		
182JM	2.75 (70)	19.55 (497)	2.75 (70)	21.21 (513)	2.75 (70)	19.55 (497)	2.75 (70)	20.16 (512)		
184JM	2.75 (70)	20.80 (528)	2.75 (70)	21.46 (545)	2.75 (70)	20.80 (528)	2.75 (70)	21.41 (544)		
213JM	2.84 (72)	22.39 (569)	2.84 (72)	23.06 (586)	2.84 (72)	22.39 (569)	2.84 (72)	23.00 (584)		
215JM	2.84 (72)	23.52 (597)	2.84 (72)	24.19 (614)	2.84 (72)	23.52 (597)	2.84 (72)	24.13 (613)		
254JM	3.84 (98)	25.65 (651)	3.84 (98)	26.32 (668)	3.84 (98)	25.65 (651)	3.84 (98)	26.26 (667)		
256JM	3.84 (98)	27.41 (696)	3.84 (98)	28.08 (713)	3.84 (98)	27.41 (696)	3.84 (98)	28.02 (712)		
284JM	3.84 (98)	31.01 (788)	3.84 (98)	31.68 (805)	3.84 (98)	31.01 (788)	3.84 (98)	31.62 (803)		
286JM	3.84 (98)	31.22 (793)	3.84 (98)	31.89 (810)	3.84 (98)	31.22 (793)	3.84 (98)	31.83 (808)		
324JM	3.84 (98)	33.11 (841)	3.84 (98)	33.78 (858)	3.84 (98)	33.11 (841)				
326JM	3.84 (98)	33.11 (841)	3.84 (98)	33.78 (858)	3.84 (98)	33.11 (841)				

MODEL	INLET INCH (MM)	OUTLET INCH (MM)	X INCH (MM)	Y INCH (MM)	Z INCH (MM)	MP INCH (MM)
	1.5 (38)	1.5 (38)	3.88 (99)	2.56 (65)	1.99 (51)	4.08 (104)
S2045	2.0 (51)	1.5 (40)	3.88 (99)	2.56 (65)	1.99 (51)	4.08 (104)
S2065	2.5 (64)	2.0 (51)	4.94 (125)	2.68 (68)	2.88 (73)	4.53 (115)
	1.5 (38)	1.5 (38)	4.94 (125)	2.43 (62)	3.13 (79)	4.03 (102)
S2065LV	2.0 (51)	1.5 (38)	4.94 (125)	2.43 (62)	3.13 (79)	4.03 (102)
	2.5 (64)	1.5 (38)	4.94 (125)	2.43 (62)	3.13 (79)	4.03 (102)
S2065HV	3.0 (76)	2.0 (51)	4.94 (125)	3.04 (77)	2.88 (73)	4.96 (126)
S2075	3.0 (76)	1.5 (40)	6.69 (170)	2.70 (69)	4.32 (110)	4.24 (108)
	3.0 (76)	2.5 (64)	5.75 (146)	2.93 (74)	3.82 (97)	4.91 (125)
S2085	4.0 (102)	2.5 (64)	5.75 (146)	2.93 (74)	3.82 (97)	4.91 (125)
S2085LV	2.0 (51)	1.5 (40)	6.69 (170)	2.70 (69)	4.32 (110)	4.24 (108)
\$2092	3.0 (76)	2.0 (51)	6.64 (169)	3.09 (78)	4.6~ ′ · · - `	/>



PRODUCT DIMENSIONS CONT.





MODEL		OUTLET INCH (MM)	1	В	D		
	INLET INCH (MM)		SM BORE INCH	LG BORE INCH (MM)	SM BORE INCH(MM)	LG BORE INCH (MM)	
	1.5 (40)	1.5 (40)	15.0 (381)		2.7 (69)		
PS2045	2.0 (50)	1.5 (40)	15.0 (381)		2.7 (69)		
	1.5 (40)	1.5 (40)	14.9 (378)	18.6 (472)	1.7 (43)	4.9 (124)	
PS2065LV	2.0 (50)	1.5 (40)	14.9 (378)	18.6 (472)	1.7 (43)	4.9 (124)	
	2.5 (65)	1.5 (40)	14.9 (378)	18.6 (472)	1.7 (43)	4.9 (124)	
PS2065	2.5 (65)	2.0 (50)	15.1 (384)	18.9 (480)	1.7 (43)	4.9 (124)	
PS2065HV	3.0 (75)	2.0 (50)	15.2 (386)	18.9 (480)	1.7 (43)	4.9 (124)	
PS2075	3.0 (75)	1.5 (40)	14.7 (373)	18.4 (472)	.6 (15)	3.9 (99)	
PS2085LV	2.0 (50)	1.5 (40)	14.7 (373)	18.4 (472)	.6 (15)	3.9 (99)	
PS2085	3.0 (75)	2.5 (65)	15.1 (384)	18.9 (480)	.6 (15)	3.9 (99)	
P52085	4.0 (100)	2.5 (65)	15.1 (384)	18.9 (480)	.6 (15)	3.9 (99)	
PS2092	3.0 (75)	2.0 (50)	14.9 (378)	18.6 (472)	.6 (15)	3.9 (99)	

CASING DRAIN OPTIONS

FRONT FACING - MODELS S2065-S2092



0 DEGREE

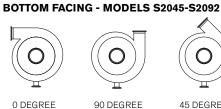






LIQUID RING







TANGENTIAL - MODELS S2045-S2092







45 DEGREE







0 DEGREE



0 DEGREE LEFT FACING

90 DEGREE LEFT FACING

45 DEGREE LEFT FACING

0 DEGREE

90 DEGREE RIGHT FACING RIGHT FACING

45 DEGREE

LIQUID RING LEFT FACING

LIQUID RING RIGHT FACING

FRONT FACING WITH 90 DEGREE ELBOW - MODELS S2045-S2092













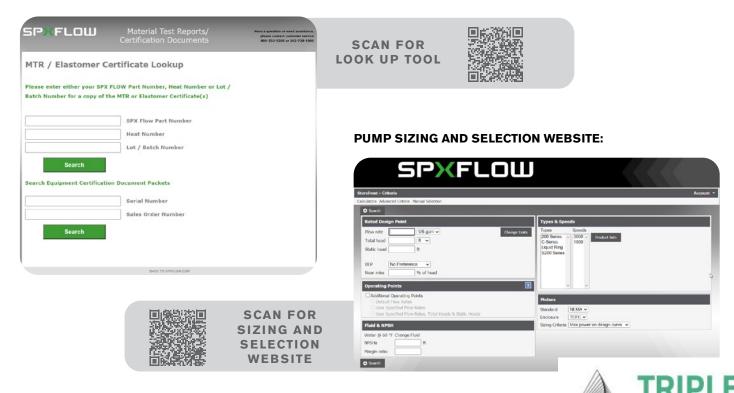
SUPPORT TOOLS

SPX FLOW is experienced with components utilized in the bio-pharmaceutical industry and the part traceability required with every pump we manufacture. SPX FLOW supplies this stringent documentation in an attractive, easy to navigate PDF package so you can easily archive this information for future reference. This important, critical information is also available 24/7 on our material test reports/certification documentation website tool. In addition to these services SPX FLOW also wants to ensure you size and order the correct pump based on your application needs. We have partnered with PUMP-FLO® to bring our customers a straightforward sizing program that can be accessed by simply creating and registering an account.

EXTRACTS FROM SUPPLIED DOCUMENTATION:



MATERIAL TEST REPORTS / CERTIFICATION DOCUMENTATION LOOK UP TOOL:



Sales Company

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S200 Series

CENTRIFUGAL PUMPS



Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) is a multi-industry manufacturing leader. For more information, please visit www.spxflow.com

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Design features, materials of construction, dimensional data and certifications as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit www.spxflow.com.

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WCB-Pumps-S200-FH-1910-BRO-US

Identification Number: FH-1910-US

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