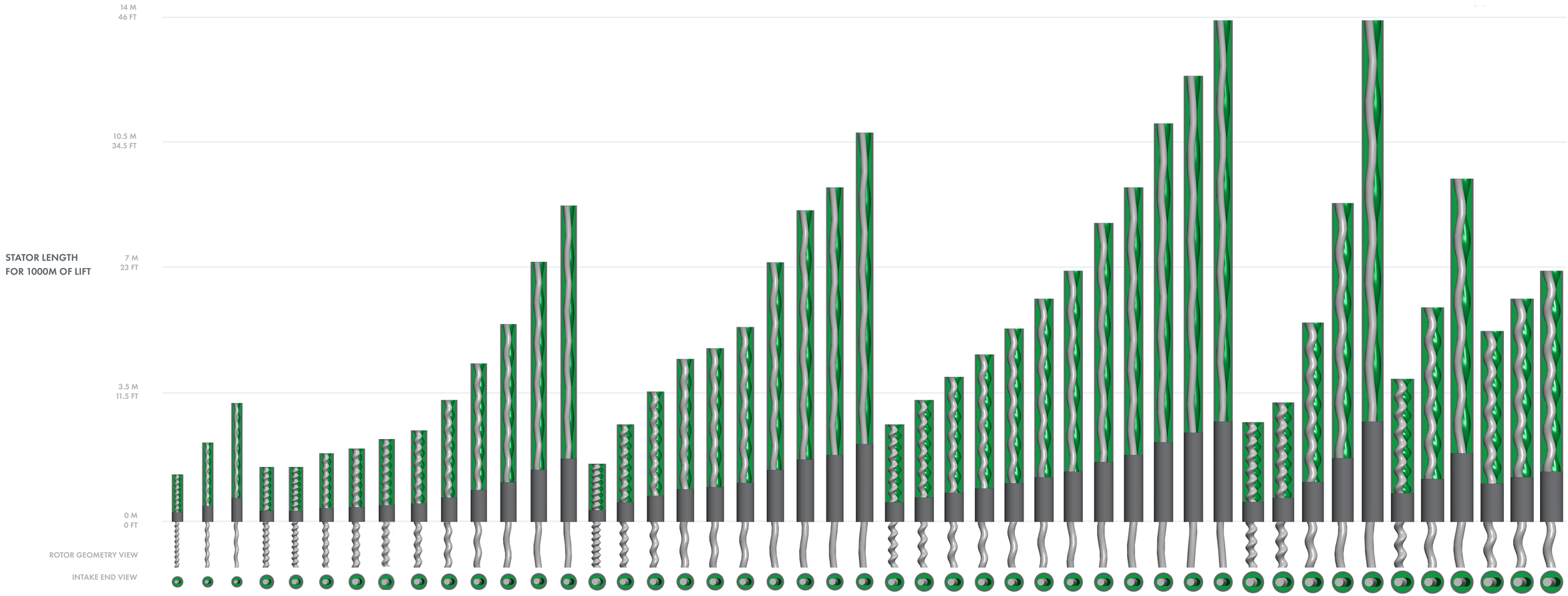
LIFTING SOLUTIONS

ENDURANCE LIFT SOLUTIONS INTERNATIONAL

PROGRESSING CAVITY PUMPS



Series		2-3/8 Series			3-1/8 Series			3-1/2 Series							
Model Name		2 XS	4 XS	7 XS	4	5 CH	7	10	13	15	20	30	41	55	70
Nominal Capacity (metric)	m^3/day/100rpm	2	4	7	4	5	7	10	13	15	20	30	41	55	70
Nominal Capacity (imperial)	bbls/day/100rpm	13 B	25 B	44 B	25 B	31 B	44 B	63 B	82 B	94 B	126 B	189 B	258 B	346 B	440 B
Stator Length for 1000m or 3280 ft of Lift	in ft m	51 4.3 1.30	86 7.2 2.18	130 10.8 3.30	60 5.0 1.52	60 5.0 1.52	75 6.3 1.91	80 6.7 2.03	90 7.5 2.29	100 8.3 2.54	133 11.1 3.38	173 14.4 4.39	216 18.0 5.49	285 23.8 7.24	346 28.8 8.79
Stator Tube OD	in (mm)	2.38 (60.3)			3.13 (79.4)			3.50 (88.9)							
Standard Stator Connection (Top x Bottom)	Size in (mm)	2-3/8 (60.3) NUE PIN			2-7/8 (73.0) EUE PIN			2-7/8 (73.0) EUE BOX WHC[2] x 2-7/8 (73.0) EUE BOX							
	OD in (mm)	2.88 (73.0)			3.46 (87.9)[1]			3.668 (93.17)							
Optional Stator Connection (Top x Bottom)	Size in (mm)	N/A			2-3/8 (60.3) EUE WEX[2]			3-1/2 (88.9) NUE PIN x 3-1/2 (88.9) NUE PIN							
	OD in (mm)	N/A			3.13 (79.4)[3]			4.18 (106.2)[1]							
Rotor Drift Diameter	in (mm)	1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	1.63 (41.3)	1.65 (41.9)	1.63 (41.3)	1.88 (47.7)	1.84 (46.7)	1.89 (47.9)	1.89 (47.9)	1.89 (47.9)	1.89 (47.9)	1.89 (47.9)	1.89 (47.9)
Standard Rotor Connection	in (mm)	3/4 (19.1) API Pin			7/8 (22.2) API Pin			7/8 (22.2) API PIN							
Min. Tubing Size for Rotor Drift	in (mm)	2-3/8 (60.3) EUE			2-3/8 (60.3) EUE			2-3/8 (60.3) EUE							
Min. Tubing Size for Rotor Orbit	in (mm)	2-3/8 (60.3) EUE			2-7/8 (73.0) EUE			2-7/8 (73.0) EUE							
Min. Tubing Size for 3/4 (19.1) Coil	in (mm)	2-7/8 (73.0) EUE			2-7/8 (73.0) EUE			3-1/2 (88.9) EUE							
Cavity Inflow CSA	in^2 (mm^2)	0.40 (258)	0.42 (271)	0.46 (297)	0.76 (490)	0.96 (619)	0.84 (542)	1.11 (716)	1.25 (806)	1.32 (852)	1.32 (852)	1.32 (852)	1.32 (852)	1.32 (852)	1.32 (852)

Series		3-3/4 Series												4-1/8 Series												
Model Name		8 CH	18 CH	28	36	43	54	68	85	102	120	23 CH	31 CH	42	50	61	72	87	105	122	145	167	190
Nominal Capacity (metric)	m^3/day/100rpm	8	18	28	36	43	54	68	85	102	120	23	31	42	50	61	72	87	105	122	145	167	190
Nominal Capacity (imperial)	bbls/day/100rpm	50 B	113 B	176 B	226 B	270 B	340 B	428 B	535 B	642 B	755 B	145 B	195 B	264 B	315 B	384 B	453 B	547 B	660 B	767 B	912 B	1050 B	1195 B
Stator Length for 1000m or 3280 ft of Lift	in ft m	63 5.3 1.60	106 8.8 2.69	142 11.8 3.61	178 14.8 4.52	190 15.8 4.83	213 17.8 5.41	284 23.7 7.21	341 28.4 8.66	366 30.5 9.30	426 35.5 10.82	106 8.8 2.69	133 11.1 3.38	158 13.2 4.01	183 15.3 4.65	211 17.6 5.36	244 20.3 6.20	282 23.5 7.16	327 27.3 8.31	366 30.5 9.30	436 36.3 11.07	488 40.7 12.40	550 45.8 13.97
Stator Tube OD	in (mm)	3.75 (95.3)										4.13 (104.8)											
Standard Stator Connection (Top x Bottom)	Size in (mm)	3-1/2 (88.9) EUE PIN x 3-1/2 (88.9) EUE PIN										3-1/2 (88.9) EUE BOX WHC[2] X 3-1/2 (88.9) EUE BOX											
	OD in (mm)	4.18 (106.2)[1]										4.5 (114.3)											
Optional Stator Connection (Top x Bottom)	Size in (mm)	2-7/8 (73.0) EUE BOX WEX[2] x 2-7/8 (73.0) EUE BOX WTB[2]										4 (101.6) NUE PIN x 4 (101.6) NUE PIN											
	OD in (mm)	3.75 (95.3)[3]										4.75 (120.7)											
Rotor Drift Diameter	in (mm)	2.09 (53.0)	2.09 (53.2)	2.10 (53.3)	2.11 (53.5)	2.10 (53.3)	2.10 (53.3)	2.10 (53.3)	2.09 (53.1)	2.10 (53.3)	2.10 (53.3)	2.27 (57.5)	2.21 (56.0)	2.26 (57.4)	2.26 (57.4)	2.26 (57.4)	2.26 (57.4)	2.26 (57.4)	2.28 (58.0)	2.32 (59.0)	2.31 (58.6)	2.32 (59.0)	2.33 (59.1)
Standard Rotor Connection	in (mm)	1 (25.4) API PIN										1 (25.4) API PIN										1-1/8 (28.6) API PIN	
Min. Tubing Size for Rotor Drift	in (mm)	2-7/8 (73.0) EUE										2-7/8 (73.0) EUE											
Min. Tubing Size for Rotor Orbit	in (mm)	3-1/2 (88.9) EUE										3-1/2 (88.9) EUE[4]											
Min. Tubing Size for 3/4 (19.1) Coil	in (mm)	3-1/2 (88.9) EUE										3-1/2 (88.9) EUE SPECIAL COIL JOINT								4-1/2 (114.3) EUE			
Cavity Inflow CSA	in^2 (mm^2)	1.42 (916)	1.69 (1090)	1.71 (1103)	1.49 (961)	1.61 (1039)	1.71 (1103)	1.68 (1084)	1.73 (1116)	1.71 (1103)	1.71 (1103)	2.10 (1355)	2.12 (1368)	2.09 (1348)	2.09 (1349)	2.09 (1348)	2.09 (1348)	2.09 (1348)	2.08 (1342)	2.07 (1335)	2.07 (1335)	2.07 (1335)	2.24 (1445)

Series		4-3/4 Series					5 Series			5 (LG) Series		
Model Name		35 CH	47 CH	88	165	280	64	118	215	101	130	150
Nominal Capacity (metric)	m^3/day/100rpm	35	47	88	165	280	64	118	215	101	130	150
Nominal Capacity (imperial)	bbls/day/100rpm	220 B	296 B	554 B	1038 B	1761 B	403 B	742 B	1352 B	635 B	818 B	944 B
Stator Length for 1000m or 3280 ft of Lift	in ft m	109 9.1 2.77	130 10.8 3.30	218 18.2 5.54	349 29.1 8.86	550 45.8 13.97	156 13.0 3.96	235 19.6 5.97	376 31.3 9.55	208 17.3 5.28	244 20.3 6.20	275 22.9 6.99
Stator Tube OD	in (mm)	4.75 (120.7)					5.00 (127.0)			5.00 (127.0)		
Standard Stator Connection (Top x Bottom)	Size in (mm)	4-1/2 (114.3) EUE PIN x 4-1/2 (114.3) EUE PIN					5 (127.0) STC PIN x 5 (127.0) STC PIN			5 (127.0) STC PIN x 5 (127.0) STC PIN		
	OD in (mm)	5.56 (141.2)					5.56 (141.2)			5.56 (141.2)		
Optional Stator Connection (Top x Bottom)	Size in (mm)	3-1/2 (88.9) EUE BOX WEX[2] x 3-1/2 (88.9) EUE BOX WTB[2]					3-1/2 (88.9) EUE BOX WEX[2] x 3-1/2 (88.9) EUE BOX WTB[2]			4-1/2 (114.3) EUE BOX WHC[2] x 4-1/2 (114.3) EUE BOX WHC[2]		
	OD in (mm)	4.75 (120.7)[3]					5.00 (127.0)[3]			5.13 (130.2)[3]		
Rotor Drift Diameter	in (mm)	2.71 (68.8)	2.78 (70.6)	2.82 (71.5)	2.82 (71.5)	2.82 (71.5)	2.85 (72.5)	2.85 (72.5)	2.85 (72.5)	2.94 (74.7)	2.94 (74.7)	2.94 (74.7)
Standard Rotor Connection	in (mm)	1 (25.4) API PIN		1-1/8 (28.6) API PIN			1-1/8 (28.6) API PIN			1-1/8 (28.6) API PIN		
Min. Tubing Size for Rotor Drift	in (mm)	3-1/2 (88.9) EUE					3-1/2 (88.9) EUE			4-1/2 (114.3) EUE		
Min. Tubing Size for Rotor Orbit	in (mm)	4-1/2 (114.3) EUE					4-1/2 (114.3) EUE			4-1/2 (114.3) EUE		
Min. Tubing Size for 3/4 (19.1) Coil	in (mm)	4-1/2 (114.3) EUE					4-1/2 (114.3) EUE			4-1/2 (114.3) EUE		
Cavity Inflow CSA	in^2 (mm^2)	2.81 (1813)	3.12 (2013)	3.27 (2110)	3.27 (2110)	3.27 (2110)	3.47 (2239)	3.47 (2239)	3.47 (2239)	3.60 (2323)	3.60 (2323)	3.60 (2323)

Footnote: [1]API special clearance coupling OD | [2]WEX = Welded Extension; WHC = Welded Half Collar; WTB = Welded Tagbar | [3]Shaved weld (add 0.25 in. if unshaved) | [4]Model 190 requires 3 1/2" EUE custom handling pup (CHP) for orbit. The CHP is also recommended for the other Models in this series.

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