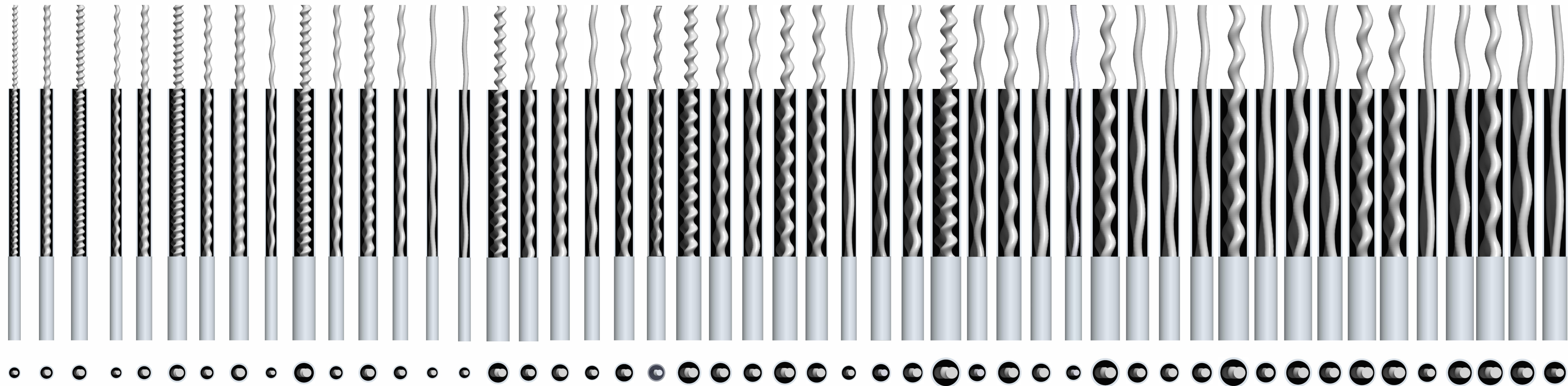


# PROGRESSING CAVITY PUMPS



Pump Model	2	4N	5FB <sup>a</sup>	6	7	8FB <sup>a</sup>	9	10	11	13FB <sup>a</sup>	14N <sup>a</sup>	15	17N <sup>a</sup>	18	23	23FB <sup>a</sup>	24	27	30	32	33	35FB <sup>a</sup>	43	47	52FB <sup>a</sup>	53	57	59	68	72FB <sup>a</sup>	75	80	83	90	98	106	120	123	130	144	150	160	161	175	185	190	200	205	302			
m <sup>3</sup> /day/100 rpm	2	4	5	6	7	8	9	10	11	13	14	15	17	18	23	23	24	27	30	32	33	35	43	47	52	53	57	59	68	72	75	80	83	90	98	106	120	123	130	144	150	160	161	175	185	190	200	205	302			
bbbl/day/100 rpm	13	25	31	38	45	50	57	60	69	82	88	95	107	113	145	145	151	170	189	200	208	220	270	296	327	333	359	371	427	453	472	500	520	566	615	667	750	774	820	906	944	1000	1010	1100	1164	1195	1258	1290	1900			
Product Family & Maximum Pump Lift <sup>b</sup> (metres)																																																				
190 LRG	3600			3000							1800																																									
238 STD		3600			2800		3600						2400	2500				1800								1000																										
238 LRG			3000					3000								3000						3000																														
278 STD																																																				
278 LRG							3000					3000				3000							2400	3000	1800	3000				2250		2400		1200	2000		1600	900	1200		1200					900						
312 STD																							3000			2400						2400																				
312 LRG																																																				
412 STD																																																				
412 LRG																																																				
Coil Accessibility <sup>c</sup>																																																				
Tubing Size (inches)	2-7/8	2-7/8	3-1/2	2-7/8	2-7/8	3-1/2	2-7/8	3-1/2	2-7/8	3-1/2	2-7/8	3-1/2	2-7/8	2-7/8	2-7/8	4-1/2	3-1/2	3-1/2	2-7/8	3-1/2	3-1/2	4-1/2	4-1/2	3-1/2	4-1/2	4-1/2	3-1/2	3-1/2	4-1/2	5-1/2	4-1/2	4-1/2	4-1/2	4-1/2	4-1/2	4-1/2	4-1/2	4-1/2	4-1/2	5-1/2	4-1/2	4-1/2	4-1/2	5-1/2	5-1/2	4-1/2	4-1/2	5-1/2	4-1/2	4-1/2		

<b>190 LRG</b> 1.900 in. tubing 2.25 in. maximum Stator tube OD 4 in. minimum CSG for pump Drift 2-7/8 in. insertable	<b>238 STD</b> 2-3/8 in. tubing 2.8 in. maximum Stator tube OD 4-1/2 in. minimum CSG for pump Drift 3-1/2 in. insertable	<b>238 LRG</b> 2-3/8 in. tubing 3.5 in. maximum Stator tube OD 4-1/2 in. minimum CSG for pump Drift 4-1/2 in. insertable	<b>278 STD</b> 2-7/8 in. tubing 3.75 in. maximum Stator tube OD 4-1/2 in. minimum CSG for pump Drift 4-1/2 in. insertable	<b>278 LRG</b> 2-7/8 in. tubing 4.25 in. maximum Stator tube OD 5-1/2 in. minimum CSG for pump Drift 5-1/2 in. insertable	<b>312 STD</b> 3-1/2 in. tubing 4.5 in. maximum Stator tube OD 5-1/2 in. minimum CSG for pump Drift 5-1/2 in. insertable	<b>312 LRG</b> 3-1/2 in. tubing 5 in. maximum Stator tube OD 7 in. minimum CSG for pump Drift N/A insertable	<b>412 STD</b> 4-1/2 in. tubing 5.5 in. maximum Stator tube OD 7 in. minimum CSG for pump Drift N/A insertable	<b>412 LRG</b> 4-1/2 in. tubing 6 in. maximum Stator tube OD 7-5/8 in. minimum CSG for pump Drift N/A insertable
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<sup>a</sup>N - New, FB - Fat Boy PCP.  
<sup>b</sup>Maximum pump lift takes into consideration the rotor torque rating, manufacturing and shipping constraints. Please contact your Weatherford representative for additional information.  
<sup>c</sup>Coil accessibility between PCP rotor and production tubing only, based on clean API 2-3/8 in. EUE 4.70 lb/ft, 2-7/8 in. EUE 6.50 lb/ft, 3-1/2 in. EUE 9.30 lb/ft, 4-1/2 in. EUE 12.75 lb/ft, 5-1/2 in. LTC 17.00 lb/ft production tubing ID, nominal 0.750 in. OD coiled tubing, nominal rotor drift with default threaded connection, and minimum 0.06 in. clearance. Coil accessibility does not account for equipment such as rod couplings, shears, centralizers, drains, swages, or clearance through the PCP stator or tag bar. For more detailed analysis contact your Weatherford representative. Pump model can fit in a smaller product family in certain applications. Please consult with a Weatherford PCP Application Specialist for details, including maximum lift available.