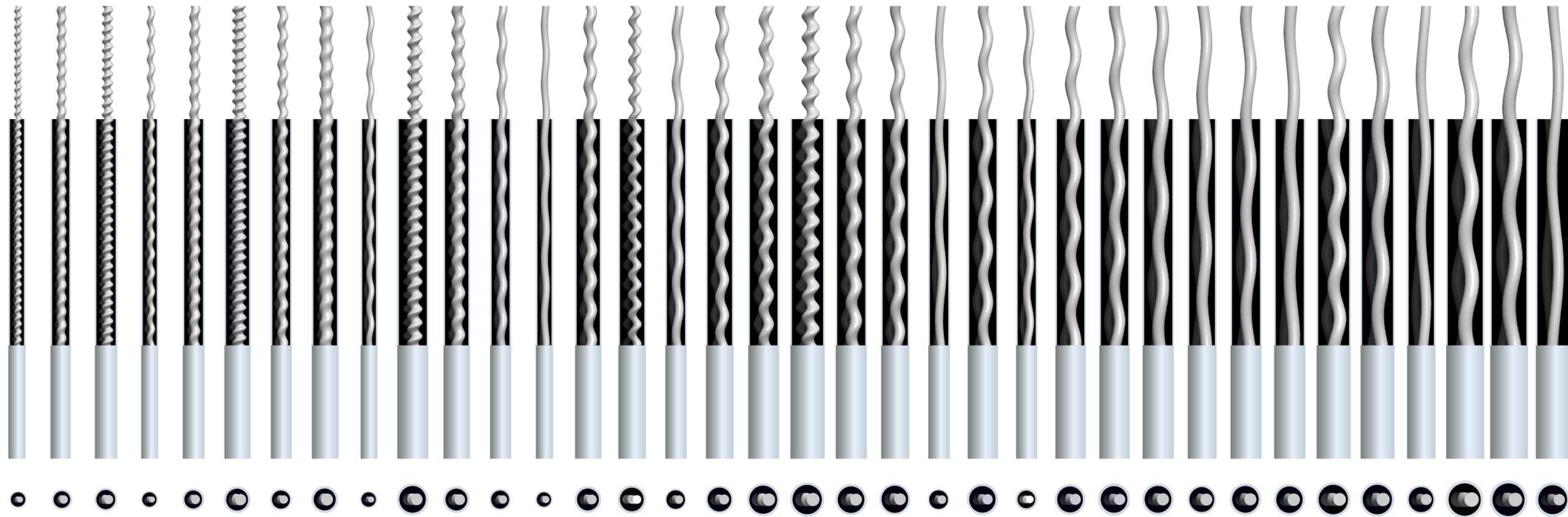


# PROGRESSING CAVITY PUMPS



Pump Model	2	4N <sup>a</sup>	5FB <sup>a</sup>	6	7	8FB <sup>a</sup>	9	10	11	13FB <sup>a</sup>	15	17N <sup>a</sup>	18	24	25FB <sup>a</sup>	30	32	33	35FB <sup>a</sup>	43	47	57	59	60N <sup>a</sup>	75	90	106	120	123	144	150	160	185	190	205	302			
m <sup>3</sup> /day/100 rpm	2	4	5	6	7	8	9	10	11	13	15	17	18	24	25	30	32	33	35	43	47	57	59	60	75	90	106	120	123	144	150	160	185	190	205	302			
bbbl/day/100 rpm	13	25	31	38	45	50	57	60	69	82	95	107	113	151	158	189	200	208	220	270	296	359	371	377	472	566	667	750	774	906	944	1000	1164	1195	1290	1900			
Product Family & Maximum Pump Lift <sup>b</sup> (metres)																																							
190 LRG	3600			3000						1800			1800																										
238 STD		3600			2800		3600					2500				1800						1000																	
238 LRG			3000					3000						2800			3000							1800															
278 LRG						3000				3000						2100			2400					3000	1800			2400	2400	2000	1600	900	1200	1200			900		
312 STD																																							
312 LRG																																							
Coil Accessibility Tubing Size <sup>c</sup> (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	3-1/2	2-7/8	2-7/8	3-1/2	3-1/2	2-7/8	3-1/2	3-1/2	4-1/2	4-1/2	3-1/2	3-1/2	3-1/2	2-7/8	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	4-1/2	4-1/2	4-1/2	4-1/2		
Deployment Type	C/I	C	C	I	C	C	I	C	I	C	C/I	I	I	C	C	I	C/I	C	C	C	C	I	C	C	C	C	C	C	C	C	C	C	C	C	I	C	C	C	

<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 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

DEPLOYMENT TYPE	
C	Conventional
I	Insertable

<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. 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.