

Item	Bolt Diameter	Nut Size A/F		Wrench Opening ¹				LP Links Assemblies									
		etric	English	A/F Min	A/F Max	A/C Min	A/C Max	LP2	LP2 Rad	LP4	LP4 Radius	LP8	LP8 Radius	LP16	LP16 Radius	LP3	LP32 Radius
012	1/2"	19	3/4	0.755	0.763	0.866	0.872	2LP03-012	1.030								
013		21	13/16	0.827	0.835	0.955	0.960	2LP03-013	1.030								
014		22	7/8	0.880	0.889	1.010	1.017	2LP03-014	1.030								
015	5/8"	24	15/16	0.945	0.954	1.091	1.096	2LP03-015	1.030								
100		25	1	1.006	1.015	1.155	1.162	2LP03-100	1.030								
101		27	1 1/16	1.069	1.078	1.227	1.234	2LP03-101	1.030	4LP02-101	1.202						
102	3/4"	29	1 1/8	1.132	1.141	1.299	1.307	2LP03-102	1.030	4LP02-102	1.202						
103		30	1 3/16	1.194	1.204	1.371	1.379	2LP04-103	1.102	4LP02-M30	1.202						
104		32	1 1/4	1.265	1.275	1.443	1.461	2LP04-104	1.102	4LP02-104	1.312						
105	7/8"	33	1 5/16	1.320	1.331	1.516	1.524	2LP05-105	1.210	4LP03-105	1.312						
106		35	1 3/8	1.383	1.394	1.588	1.597	2LP05-106	1.210	4LP03-106	1.312						
M36		36	1 5/12	1.425	1.436	1.637	1.646	2LP05-M36	1.210	4LP03-M36	1.312						
107	1"	37	1 7/16	1.446	1.457	1.660	1.669	2LP05-107	1.210	4LP03-107	1.312						
108		38	1 1/2	1.509	1.520	1.732	1.742	2LP06-108	1.318	4LP04-108	1.418						
109		40	1 9/16	1.571	1.583	1.804	1.814	2LP06-109	1.318	4LP04-109	1.418						
110	1 1/8"	41	1 5/8	1.634	1.646	1.876	1.887	2LP06-110	1.318	4LP04-110	1.418						
111		43	1 11/16	1.697	1.709	1.949	1.960	2LP07-111	1.426	4LP05-111	1.526						
112		44	1 3/4	1.760	1.773	2.021	2.032	2LP07-112	1.426	4LP05-112	1.526						
M45	1 1/4"	45	1 7/9	1.780	1.792	2.053	2.070	2LP07-M45	1.426	4LP05-M45	1.526						
113		46	1 13/16	1.823	1.836	2.093	2.105	2LP07-113	1.426	4LP05-113	1.526						
114		47	1 7/8	1.885	1.899	2.165	2.177	2LP08-114	1.535	4LP06-114	1.635						
115	1 1/2"	49	1 15/16	1.948	1.962	2.237	2.250	2LP08-115	1.535	4LP06-115	1.635						
M50		50	1 31/32	1.979	1.993	2.273	2.286	2LP08-M50	1.535	4LP06-M50	1.635						
200		51	2	2.011	2.025	2.309	2.322	2LP08-200	1.535	4LP06-200	1.635	8LP03-200	1.725				
201	1 3/8"	52	2 1/16	2.074	2.088	2.382	2.395	2LP09-201	1.643	4LP07-201	1.743	8LP04-201	1.833				
202		54	2 1/8	2.137	2.151	2.454	2.467	2LP09-202	1.643	4LP07-202	1.743	8LP04-202	1.833				
M55		55	2 1/6	2.177	2.192	2.500	2.514	2LP09-M55	1.643	4LP07-M55	1.743	8LP04-M55	1.833				
203	1 1/2"	56	2 3/16	2.199	2.214	2.526	2.540	2LP09-203	1.643	4LP07-203	1.743	8LP04-203	1.833				
204		57	2 1/4	2.262	2.278	2.598	2.612	2LP10-204	1.751	4LP08-204	1.851	8LP05-204	1.941				
205		59	2 5/16	2.325	2.341	2.670	2.685	2LP10-205	1.751	4LP08-205	1.851	8LP05-205	1.941				
206	1 5/8"	60	2 3/8	2.388	2.404	2.742	2.757	2LP10-206	1.751	4LP08-206	1.851	8LP05-206	1.941				
207		62	2 7/16	2.451	2.467	2.815	2.830			4LP09-207	1.959	8LP06-207	2.049				
208		63	2 1/2	2.514	2.530	2.887	2.902			4LP09-208	1.959	8LP06-208	2.049				
209	1 3/4"	65	2 9/16	2.576	2.593	2.959	2.975			4LP09-209	1.959	8LP06-209	2.049	16LP02-209	2.478		
210		67	2 5/8	2.639	2.656	3.031	3.047			4LP10-210	2.068	8LP07-210	2.158	16LP02-210	2.478		
211		68	2 11/16	2.702	2.719	3.103	3.120			4LP10-211	2.068	8LP07-211	2.158	16LP02-211	2.478		
212	1 7/8"	70	2 3/4	2.765	2.783	3.182	3.193			4LP10-212	2.068	8LP07-212	2.158	16LP02-212	2.478		
213		71	2 13/16	2.828	2.846	3.248	3.265			4LP11-213	2.185	8LP08-213	2.275	16LP05-213	2.775		
214		73	2 7/8	2.890	2.909	3.320	3.338			4LP11-214	2.185	8LP08-214	2.275	16LP05-214	2.775		
215	2"	75	2 15/16	2.953	2.972	3.392	3.410			4LP11-215	2.185	8LP08-215	2.275	16LP05-215	2.775		
300		76	3	3.016	3.035	3.464	3.483			4LP12-300	2.302	8LP09-300	2.392	16LP05-300	2.775		
301		78	3 1/16	3.079	3.098	3.536	3.555			4LP12-301	2.302	8LP09-301	2.392	16LP05-301	2.775		
302	2 1/8"	79	3 1/8	3.142	3.161	3.609	3.628			4LP12-302	2.302	8LP09-302	2.392	16LP05-302	2.775		
M80		80	3 3/20	3.156	3.176	3.630	3.640					8LP10-M80	2.519	16LP05-M80	2.775		
303		81	3 3/16	3.204	3.224	3.681	3.700					8LP10-303	2.519	16LP05-303	2.775		
304	2 1/4"	83	3 1/4	3.267	3.288	3.753	3.773					8LP10-304	2.519	16LP05-304	2.775		
305		84	3 5/16	3.330	3.351	3.825	3.845					8LP10-305	2.519	16LP06-305	2.889		
M85		85	3 9/26	3.356	3.366	3.864	3.875					8LP10-M85	2.519	16LP06-M85	2.889		
306	2 3/8"	86	3 3/8	3.400	3.421	3.897	3.926					8LP10-306	2.519	16LP06-306	2.889		
307		87	3 7/16	3.456	3.477	3.969	3.990					8LP11-307	2.627	16LP06-307	2.889		
308		89	3 1/2	3.519	3.540	4.042	4.063					8LP11-308	2.627	16LP06-308	2.889		
308	2 3/8"	89	3 1/2	3.519	3.540	4.042	4.063							16LP08-308	3.163		
309		90	3 9/16	3.556	3.567	4.100	4.116							16LP05-M90	2.775		
309		90	3 9/16	3.556	3.567	4.100	4.116					8LP12-309	2.735	16LP07-309	3.003		
310	2 3/8"	92	3 5/8	3.644	3.666	4.186	4.208					8LP12-310	2.735	16LP07-310	3.003		
311		94	3 11/16	3.707	3.729	4.258	4.281					8LP12-311	2.735	16LP07-311	3.003		

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		Americ	English	A/F Min	A/F Max	A/C Min	A/C Max	LP2	LP2 Rad.	LP4	LP4 Radius	LP8	LP8 Radius	LP16	LP16 Radius	LP32	LP32 Radius	
312	2 1/2"	95	3 3/4	3.770	3.793	4.330	4.353					8LP12-312	2.735	16LP07-312	3.003			
312		95	3 3/4	3.770	3.793	4.330	4.353							16LP08-312	3.163			
313		97	3 13/16	3.833	3.856	4.402	4.426						8LP13-313	2.843	16LP08-313	3.163		
314		98	3 7/8	3.895	3.919	4.475	4.498						8LP13-314	2.843	16LP08-314	3.163		
315	2 5/8"	100	3 15/16	3.950	3.966	4.540	4.555					8LP14-315	2.952	16LP09-315	3.277			
400		101	4	4.021	4.045	4.619	4.643					8LP14-400	2.952	16LP09-400	3.277			
400		101	4	4.021	4.045	4.619	4.643							16LP12-400	3.632			
401		103	4 1/16	4.084	4.108	4.691	4.716					8LP14-401	2.952	16LP09-401	3.277			
402	2 3/4"	105	4 1/8	4.147	4.157	4.760	4.780					8LP14-402	2.952	16LP09-402	3.277			
403		106	4 3/16	4.209	4.234	4.835	4.861					8LP15-403		16LP10-403	3.391			
404		108	4 1/4	4.272	4.298	4.908	4.933					8LP15-404		16LP10-404	3.391			
404		108	4 1/4	4.272	4.298	4.908	4.933							16LP12-404	3.632			
405	2 7/8"	110	4 5/16	4.335	4.355	4.995	5.006					8LP15-405		16LP11-405	3.505	32LP04-405	3.690	
406		111	4 3/8	4.398	4.424	5.052	5.078					8LP15-406		16LP11-406	3.505	32LP04-406	3.690	
407		113	4 7/16	4.461	4.487	5.124	5.151					8LP15-407		16LP11-407	3.505	32LP04-407	3.690	
408		114	4 1/2	4.524	4.550	5.196	5.223					8LP15-408		16LP11-408	3.505	32LP04-408	3.690	
M115	3"	115	4 48/91	4.540	4.550	5.228	5.242					8LP15-M115		16LP11-M115	3.505	32LP04-M115	3.690	
409		116	4 9/16	4.586	4.613	5.268	5.296							16LP11-409	3.505	32LP04-409	3.690	
410		117	4 5/8	4.649	4.676	5.341	5.369							16LP11-410	3.505	32LP04-410	3.690	
410		117	4 5/8	4.649	4.676	5.341	5.369							16LP12-410	3.632			
411	3 1/8"	119	4 11/16	4.712	4.739	5.413	5.441							16LP12-411	3.632	32LP07-411	4.021	
M120		120	4 71/98	4.739	4.750	5.455	5.472							16LP12-M120	3.632	32LP07-M120	4.021	
412		121	4 3/4	4.775	4.803	5.485	5.514							16LP12-412	3.632	32LP07-412	4.021	
413		122	4 13/16	4.838	4.866	5.557	5.586							16LP12-413	3.632	32LP07-413	4.021	
414	3 1/4"	124	4 7/8	4.900	4.929	5.629	5.659							16LP12-414	3.632	32LP07-414	4.021	
415		125	4 15/16	4.940	4.950	5.702	5.704							16LP12-415	3.632	32LP07-415	4.021	
500		127	5	5.026	5.055	5.774	5.804							16LP12-500	3.632	32LP07-500	4.021	
501		128	5 1/16	5.089	5.118	5.846	5.876									32LP07-501	4.021	
502	3 3/8"	130	5 1/8	5.136	5.146	5.918	5.931									32LP07-502	4.021	
503		132	5 3/16	5.214	5.244	5.990	6.021									32LP10-503	4.566	
504		133	5 1/4	5.277	5.308	6.062	6.094									32LP10-504	4.566	
505		135	5 5/16	5.328	5.339	6.135	6.152									32LP10-505	4.566	
506	3 1/2"	136.5	5 3/8	5.403	5.434	6.207	6.239									32LP10-506	4.566	
507		138	5 7/16	5.466	5.497	6.279	6.311									32LP10-507	4.566	
508		140	5 1/2	5.529	5.544	6.351	6.384									32LP10-508	4.566	
509		141	5 9/16	5.591	5.623	6.423	6.456									32LP10-509	4.566	
510	3 3/4"	143	5 5/8	5.654	5.686	6.495	6.529									32LP10-510	4.566	
511		144	5 11/16	5.717	5.749	6.568	6.602									32LP10-511	4.566	
M145		145	5 17/24	5.718	5.729	6.592	6.603									32LP10-M145	4.566	
512		146	5 3/4	5.780	5.813	6.640	6.674									32LP10-512	4.566	
513	3 7/8"	148	5 13/16	5.843	5.876	6.712	6.747											
514		150	5 7/8	5.912	5.925	6.819	6.839											
515		151	5 15/16	5.968	6.002	6.856	6.892											
600		152	6	6.031	6.065	6.928	6.964										32LP12-600	5.060
601	4"	154	6 1/16	6.094	6.128	7.001	7.037										32LP12-601	5.060
M155		155	6 4/39	6.114	6.130	7.047	7.060										32LP12-M155	5.060
602		156	6 1/8	6.157	6.191	7.073	7.109										32LP12-602	5.060
608		4 1/4"	165	6 1/2	6.534	6.570	7.506	7.544									32LP12-608	5.060

¹-Values are based on ANSI / ASME B18.2.2-1987 (R 1999)