

Delta Series

Highlights



Description

This wheel motor is the latest addition to the Char Lynn product line. The Delta motor provides torques up to 11,500 in-lbs. Eaton has packed this motor with many “best in class” features: the optimized geroler profile ensures smooth operation; the disc valve technology has the best performance and the bearing capacity is the highest in the industry for very demanding applications.

Delta Series

Geroler Element	12 Displacements
Flow l/min [GPM]	75 [20] Continuous**
	115 [30] Intermittent*
Speed RPM	670 Cont.**
	837 Inter.*
Pressure bar [PSI]	200 [3000] Cont.**
	275 [4000] Inter.*
Torque Nm [lb-in]	1015 [9000] Cont**.
	1185 [10500] Inter.*

** Continuous—(Cont.) Continuous rating, motor may be run continuously at these ratings.

* Intermittent—(Inter.) Intermittent operation, 10% of every minute.

Features:

- Excellent reliability with time proven Char-Lynn components
- Proven disc valve technology with the highest efficiencies in its class
- Leak resistant motor with the front bearing protecting the shaft seal
- Torque up to 10,500 lb-in intermittent duty / Flow up to 30 GPM intermittent
- 12 displacements available from 6.9 to 46 CID
- Shaft sizes up to 1-5/8 inch
- 3-1/4 inch front pilot and 5 inch rear pilot
- STC ports available

Benefits:

- Perfect replacement for Parker® TF-TG and White™ RE motors
- Lowest no load pressure drop which leads to longer life and lower temperature operation
- Highest overall efficiency: more available HP to the system than competitive motors
- The highest side load capacity with 4,500 lbs at 3” from the mount face

Applications:

- Scissor Lift
- Boom Lift
- Industrial Sweeper
- Mower

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White is a trademark of White Drive Products, Inc.



Boom Lift



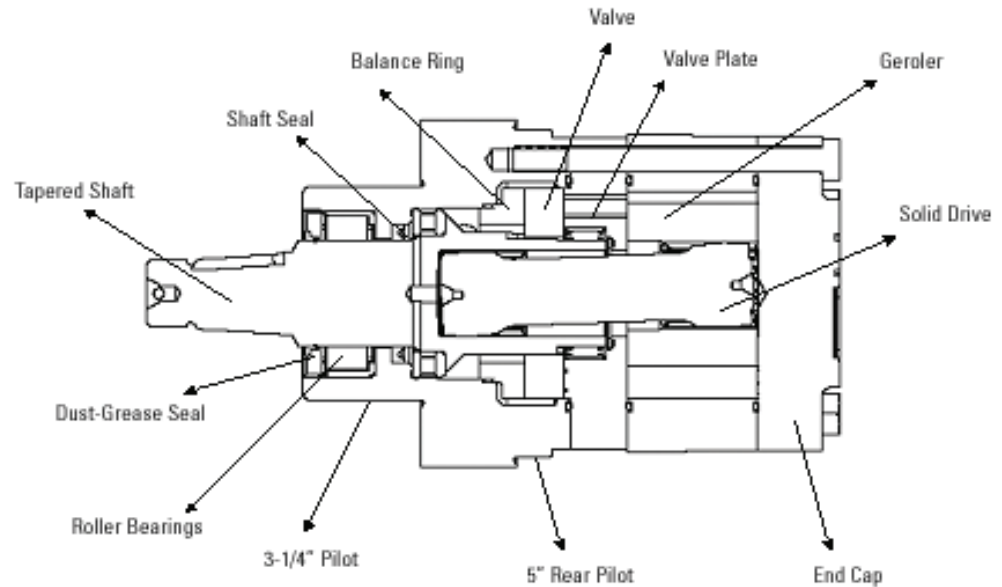
Sweeper



Mower

Delta Series

Specifications



DELTA SERIES MOTORS

Displ. cm ³ /r (in ³ /rev)		113 [6.9]	146 [8.9]	198 [12.1]	234 [14.3]	252 [15.4]	300 [18.3]	347 [21.2]	395 [24.1]	470 [28.7]	542 [33.1]	649 [39.6]	754 [46.0]
Max Speed (RPM) @Flow	Continuous	668	519	382	323	300	252	218	192	161	140	117	100
	Intermittent	831	778	516	485	450	379	327	288	241	209	175	151
Flow l/min [GPM]	Continuous	75 [20]	75 [20]	75 [20]	75 [20]	75 [20]	75 [20]	75 [20]	75 [20]	75 [20]	75 [20]	75 [20]	75 [20]
	Intermittent	95 [25]	115 [30]	115 [30]	115 [30]	115 [30]	115 [30]	115 [30]	115 [30]	115 [30]	115 [30]	115 [30]	115 [30]
Torque 1028 [9102]	Continuous	320 [2834]	429 [3800]	554 [4904]		651 [5763]		712 [6311]	844 [7472]	933 [8260]	972 [8607]	1039 [9199]	994 [8809]
	Intermittent	985 [8721]	1206 [10684]	1222 [10824]	1202 [10644]	1253 [11100]	1232 [10910]	563 [4984]	725 [6421]	852 [7543]	930 [8236]	1087 [9629]	1208
Pressure 120 [1750]	Continuous	205 [3000]	205 [3000]	205 [3000]		205 [3000]		205 [3000]	205 [3000]	205 [3000]	190 [2750]	170 [2500]	140 [2000]
	Intermittent	105 [1500]	170 [2500]	155 [2250]	140 [2000]	275 [4000]	275 [4000]	275 [4000]	275 [4000]	275 [4000]	275 [4000]	275 [4000]	275 [4000]
Weight 19,1 [42.0]	Continuous	12,7 [28.0]	12,9 [28.5]	13,8 [30.5]	14,3 [31.5]	15,0 [33.0]	15,0 [33.0]		15,4 [34.0]	16,1 [35.5]	16,8 [37.0]	17,5 [38.5]	18,4 [40.5]
	kg [lb]												

Note:

Top assure best motor life, run motor for approximately one hour at 30% of rated pressure before application to full load. Be sure motor is filled with fluid prior to any load applications.

When pressurizing B port, all displacements have a continuous rating of 2000 psi.

Maximum Inlet Pressure:

310 bars (4500 PSI)

Do not exceed Δ pressure rating (see chart above).

Recommended Fluids:

Premium quality, anti wear type hydraulic oil with a viscosity of no less than 70 SUS at operating temperature.

Recommended System Operating Temp.:

-34°C to 82°C [-30°F to 180°F]

Recommended Filtration:

Per ISO cleanliness Code 4406: 20/18/13

Delta Series

Performance Data

Motors run with high efficiency in all areas designated with a number for torque and speed. For best motor life select a motor to run with a torque and speed range shown in the light shaded area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production.

	Continuous
	Intermittent
	No operation

113cm³/r [6.9 in³/r]

Δ Pressure Bar [PSI]

	17	34	52	69	86	103	121	138	155	172	190	207	224	241	259	276
	250	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
2	204	450	686	915	1140	1355	1593	1814	2018	2197	2349	2573	2776	2975	3182	3362
7.6	23	51	77	103	129	153	180	205	228	248	265	290	313	336	359	380
	65	64	63	62	60	60	59	57	56	55	56	54	52	48	49	44
4	210	457	706	950	1194	1436	1677	1906	2129	2351	2571	2790	3010	3231	3454	3660
15	24	52	80	107	135	162	189	215	240	265	290	315	340	365	390	413
	132	131	130	129	128	127	126	125	123	122	120	118	115	113	112	110
6	196	445	696	942	1186	1432	1674	1914	2144	2367	2587	2805	3027	3252	3476	3695
23	22	50	79	106	134	162	189	216	242	267	292	317	342	367	392	417
	199	196	196	195	193	192	191	190	189	185	183	182	180	177	174	172
8	176	428	677	921	1168	1420	1666	1906	2152	2386	2616	2834	3051	3265	3481	3697
30	20	48	76	104	132	160	188	215	243	269	295	320	344	369	393	417
	266	264	263	261	261	259	257	257	255	252	250	248	246	244	241	237
10	160	407	659	901	1149	1398	1650	1894	2134	2370	2601	2823	3044	3258	3457	3654
38	18	46	74	102	130	158	186	214	241	268	294	319	344	368	390	413
	333	333	329	326	324	323	321	320	318	314	312	309	306	303	301	295
12	134	382	632	876	1122	1372	1621	1868	2111	2353	2589	2821	3046	3270	3479	3680
45	15	43	71	99	127	155	183	211	238	266	292	319	344	369	393	415
	399	398	396	393	392	389	387	386	383	381	377	374	372	370	367	364
14	111	357	608	855	1102	1350	1599	1847	2090	2330	2569	2800	3024	3250	3455	3614
53	13	40	69	97	124	152	181	208	236	263	290	316	341	367	390	408
	466	465	462	460	457	455	453	451	449	446	442	438	436	433	429	415
16	81	325	577	822	1071	1321	1572	1817	2063	2307	2549	2781	3011	3237	3436	3578
61	9	37	65	93	121	149	177	205	233	260	288	314	340	365	388	404
	533	532	529	527	524	522	520	517	516	513	509	506	503	500	496	477
18	48	295	543	790	1036	1283	1535	1781	2027	2271	2512	2751	2984	3214	3431	3597
68	5	33	61	89	117	145	173	201	229	256	284	311	337	363	387	406
	601	600	597	593	591	587	586	583	581	577	573	570	568	564	559	542
20	14	263	510	758	1005	1249	1499	1746	1988	2231	2474	2712	2945	3176	3395	3597
76	2	30	58	86	113	141	169	197	224	252	279	306	332	359	383	406
	668	666	664	661	658	654	652	649	646	644	640	637	634	630	628	621
22	228	477	725	972	1218	1468	1712	1957	2201	2447	2686	2917	3149	3350	3523	3680
83	26	54	82	110	138	166	193	221	249	276	303	329	355	378	398	398
	733	731	728	724	721	718	715	713	710	705	704	700	697	697	688	664
25	170	416	663	913	1161	1402	1646	1891	2136	2382	2622	2856	3081	3273	3452	3621
95	19	47	75	103	130	158	186	214	241	269	296	322	348	369	390	390
	831	829	827	825	821	818	815	812	809	805	803	800	794	794	776	745
30	114	429	755	1076	1400	1725	2047	2368	2687	3003	3323	3635	3942	4249	4552	4852
114	13	48	85	122	158	195	231	267	303	339	375	410	445	480	514	514
	778	777	773	770	765	759	756	753	749	746	744	742	740	737	735	735

114 } Torque [lb-in]
13 } Nm
778 } Speed RPM

146cm³/r [8.9 in³/r]

Δ Pressure Bar [PSI]

	17	34	52	69	86	103	121	138	155	172	190	207	224	241	259	276
	250	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
2	288	596	907	1184	1445	1718	1992	2247	2537	2810	3039	3290	3595	3846	3996	4265
7.6	32	67	102	134	163	194	225	254	286	317	343	371	406	434	451	482
	50	48	46	42	44	43	40	39	38	37	36	34	32	31	25	28
4	289	619	947	1267	1593	1914	2227	2482	2755	3042	3295	3615	3916	4135	4456	4680
15	33	70	107	143	180	216	251	280	311	343	372	408	442	467	503	528
	102	100	98	96	95	95	94	93	91	88	84	81	79	76	74	70
6	275	604	934	1259	1588	1908	2232	2552	2869	3181	3497	3800	4102	4397	4680	4955
23	31	68	105	142	179	215	252	288	324	359	395	429	463	496	528	559
	154	151	149	148	146	145	144	143	141	137	135	133	130	128	125	123
8	256	580	909	1235	1566	1887	2209	2528	2845	3160	3475	3783	4091	4397	4692	4984
30	29	66	103	139	177	213	249	285	321	357	392	427	462	496	530	563
	206	204	201	200	198	198	196	195	190	187	185	182	179	179	176	173
10	227	553	879	1204	1535	1861	2184	2504	2820	3133	3447	3757	4061	4369	4667	4963
38	26	62	99	136	173	210	247	283	318	354	389	424	459	493	527	560
	258	256	253	251	250	249	248	246	241	238	236	233	231	229	228	225
12	199	521	850	1172	1501	1825	2148	2469	2780	3091	3402	3714	4017	4324	4627	4922
45	23	59	96	132	170	206	243	279	314	349	384	419	454	488	522	556
	310	308	305	303	301	300	299	297	292	290	287	284	282	281	278	276
14	157	480	809	1130	1458	1784	2104	2426	2743	3057	3369	3679	3983	4291	4593	4892
53	18	54	91	128	165	201	238	274	310	345	380	415	450	484	519	552
	362	360	356	354	353	352	351	346	344	341	339	337	335	332	331	329
16	132	457	780	1102	1429	1753	2081	2397	2714	3025	3335	3645	3947	4255	4558	4857
61	15	52	88	124	161	198	235	271	306	342	377	412	446	480	515	548
	414	412	408	406	405	403	402	398	395	392	389	387	384	382	380	377
18	98	414	742	1065	1390	1715	2039	2360	2675	2986	3295	3605	3906	4213	4518	4817
68	11	47	84	120	157	194	230	266	302	337	372	407	441	476	510	544
	467	465	461	459	457	456	453	450	447	444	442	439	437	435	432	430
20	42	373	700	1020	1347	1670	1989	2308	2628	2944	3255	3568	3866	4172	4475	4774
76	5	42	79	115	152	189	225	261	297	332	368	403	436	471	505	539
	519	517	514	511	509	507	503	500	498	495	492	489	488	485	484	482
22	16	328	659	978	1306	1628	1950	2268	2586	2900	3211	3522	3823	4128	4429	4732
83	2	37	74	110	147	184	220	256	292	327	362	398	432	466	500	534
	571	569	565	562	559	555	555	552	549	546	544	541	538	536	534	531
25	253	576	899	1221	1544	1864	2179	2500	2811	3120	3433	3736	4036	4337	4639	4939
95	29	65	102	138	174	210	246	282	317	352	388	422	456	490	524	554
	647	645	641	639	637	633	629	626	624	621	618	616	613	612	612	609
30	114	429	755	1076	1400	1725	2047	2368	2687	3003	3					

Delta Series

Performance Data

198cm³/r [12.1 in³/r]
ΔPressure Bar [PSI]

	17 250	34 500	52 750	69 1000	86 1250	103 1500	121 1750	138 2000	155 2250	172 2500	190 2750	207 3000	224 3250	241 3500	259 3750	276 4000
2	313	732	1113	1480	1870	2249	2668	3059	3447	3822	4189	4544	4875	5194	5508	5848
7.6	35	83	126	167	211	254	301	345	389	432	473	513	550	586	622	671
4	367	809	1228	1640	2038	2437	2844	3234	3623	4010	4398	4779	5164	5545	5917	6275
15	41	91	139	185	230	275	321	365	409	453	497	540	583	626	668	708
6	365	799	1231	1654	2066	2473	2878	3270	3665	4056	4446	4833	5215	5598	5975	6347
23	41	90	139	187	233	279	325	369	414	458	502	546	589	632	675	717
8	343	782	1219	1648	2069	2484	2898	3300	3702	4093	4482	4865	5237	5607	5976	6349
30	39	88	138	186	234	280	327	373	418	462	506	549	591	633	675	717
10	322	759	1201	1633	2063	2483	2904	3316	3726	4125	4515	4904	5290	5672	6048	6421
38	36	86	136	184	233	280	328	374	421	466	510	554	597	640	683	725
12	283	719	1158	1590	2020	2448	2868	3279	3691	4096	4492	4883	5265	5644	6015	6385
45	32	81	131	180	228	276	324	370	417	462	507	551	594	637	679	721
14	238	671	1110	1538	1970	2396	2816	3228	3644	4050	4451	4846	5231	5613	5982	6357
53	27	76	125	174	222	271	318	364	411	457	503	547	591	634	675	718
16	191	625	1063	1493	1923	2345	2768	3182	3596	4003	4403	4801	5191	5576	5947	6316
61	22	71	120	169	217	265	312	359	406	452	497	542	586	630	671	713
18	139	567	1006	1438	1871	2299	2720	3133	3547	3956	4359	4760	5128	5492	5871	6247
68	16	64	114	162	211	260	307	354	400	447	492	537	579	620	663	705
20	99	457	886	1315	1745	2168	2590	3006	3418	3822	4224	4622	5018	5418	5816	6208
76	11	52	100	148	197	245	292	339	386	432	477	522	567	612	657	701
22	15	383	810	1243	1676	2096	2520	2938	3351	3759	4161	4558	4953	5339	5722	6095
83	2	43	91	140	189	237	284	332	378	424	470	515	559	603	646	688
25		272	700	1131	1559	1985	2408	2823	3231	3639	4042	4443	4842	5229	5617	5992
95		31	79	128	176	224	272	319	365	411	456	502	547	590	634	677
30		163	600	1037	1474	1902	2315	2723	3134	3536	3933	4338	4737	5125	5516	5899
114		18	68	117	166	215	261	307	354	399	444	490	535	579	623	666
		516	506	494	487	484	488	494	501	506	511	514	515	516	515	514

163 } Torque lb-in
 18 } Nm
 516 } Speed RPM

234cm³/r [14.3 in³/r]
ΔPressure Bar [PSI]

	17 250	34 500	52 750	69 1000	86 1250	103 1500	121 1750	138 2000	155 2250	172 2500	190 2750	207 3000	224 3250	241 3500	259 3750	276 4000
2	470	971	1457	1921	2414	2877	3348	3821	4275	4730	5164	5630	5997	6446	6863	7217
7.6	53	110	164	217	273	325	378	431	483	534	583	636	677	728	775	815
4	468	988	1504	1989	2482	2964	3447	3916	4384	4843	5302	5763	6213	6668	7113	7543
15	53	112	170	225	280	335	389	442	495	547	599	651	701	753	803	852
6	449	966	1484	1980	2470	2953	3445	3922	4397	4851	5304	5750	6197	6643	7085	7524
23	51	109	168	224	279	333	389	443	496	548	599	649	700	750	800	849
8	416	931	1446	1954	2458	2948	3438	3909	4381	4835	5280	5714	6150	6584	7015	7445
30	47	105	163	221	277	333	388	441	495	546	596	645	694	743	792	841
10	380	896	1410	1917	2425	2919	3412	3890	4373	4831	5280	5716	6148	6586	7017	7452
38	43	101	159	216	274	330	385	439	494	545	596	645	694	744	792	841
12	341	856	1366	1876	2384	2880	3370	3843	4319	4782	5229	5665	6102	6537	6962	7392
45	39	97	154	212	269	325	380	434	488	540	590	640	689	738	786	835
14	290	804	1312	1813	2320	2821	3315	3793	4268	4732	5181	5623	6057	6485	6907	7327
53	33	91	148	205	262	318	374	428	482	534	585	635	684	732	780	827
16	239	743	1249	1756	2264	2759	3255	3735	4207	4669	5122	5568	6004	6432	6845	7268
61	27	84	141	198	256	312	367	422	475	527	578	629	678	726	773	820
18	176	688	1187	1694	2203	2698	3195	3676	4146	4603	5055	5497	5930	6358	6774	7194
68	20	78	134	191	249	305	361	415	468	520	571	621	669	718	765	812
20	108	614	1121	1623	2124	2620	3118	3603	4077	4541	4990	5430	5865	6301	6720	7139
76	12	69	127	183	240	296	352	407	460	513	563	613	662	711	759	806
22	28	535	1081	1582	2082	2579	3071	3550	4018	4483	4943	5406	5855	6300	6723	7139
83	3	60	122	179	235	291	347	401	454	506	558	610	661	711	759	806
25		410	956	1460	1959	2454	2941	3419	3892	4356	4806	5251	5683	6117	6531	6939
95		46	108	165	221	277	332	386	439	492	543	593	642	691	737	783
30		404	404	402	401	399	398	397	394	392	391	390	390	389	390	389
114		171	700	1297	1735	2226	2718	3204	3689	4162	4623	5079	5519	5959	6377	6781
		19	79	146	196	251	307	362	417	470	522	573	623	673	720	766
		485	485	485	483	481	480	478	476	474	472	471	471	471	471	471

Delta Series

Performance Data

252cm³/r [15.4 in³/r]
ΔPressure Bar [PSI]

	17	34	52	69	86	103	121	138	155	172	190	207	224	241	259	276
	250	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
2	485	1011	1520	2032	2564	3059	3569	4065	4561	5085	5589	6054	6536	6891	7388	7872
	55	114	172	229	289	345	403	459	515	574	631	683	738	778	834	889
7.6	28	27	26	26	25	24	23	23	22	23	23	22	22	19	19	20
4	504	1062	1609	2145	2684	3213	3744	4263	4780	5294	5804	6311	6811	7308	7787	8236
	57	120	182	242	303	363	423	481	540	598	655	712	769	825	879	930
15	59	57	56	56	55	55	54	54	53	53	53	51	51	49	49	47
6	478	1031	1585	2132	2670	3195	3717	4222	4726	5222	5721	6211	6700	7179	7658	8118
	54	116	179	241	301	361	420	477	534	590	646	701	756	810	865	917
23	89	88	86	85	85	84	84	84	84	84	83	82	82	80	78	78
8	453	1012	1571	2115	2664	3191	3717	4224	4725	5215	5706	6194	6678	7161	7628	8076
	51	114	177	239	301	360	420	477	533	589	644	699	754	808	861	912
30	120	118	117	115	114	113	113	112	113	113	113	112	111	110	109	108
10	398	957	1516	2063	2609	3137	3668	4181	4678	5157	5636	6116	6589	7059	7522	7974
	45	108	171	233	295	354	414	472	528	582	636	690	744	797	849	900
38	149	148	147	145	144	143	142	142	142	143	142	142	141	140	139	138
12	370	914	1468	2011	2557	3085	3614	4125	4622	5102	5577	6059	6538	7017	7497	7966
	42	103	166	227	289	348	408	466	522	576	630	684	738	792	846	899
45	180	179	178	176	174	173	172	172	172	172	172	172	171	171	170	169
14	290	842	1399	1948	2496	3024	3552	4065	4571	5056	5525	5987	6445	6905	7359	7813
	33	95	158	220	282	341	401	459	516	571	624	676	728	780	831	882
53	210	209	208	206	205	203	202	201	200	199	199	200	200	200	200	199
16	239	795	1346	1891	2434	2962	3494	4003	4511	4995	5461	5919	6382	6841	7292	7743
	27	90	152	213	275	334	395	452	509	564	616	668	720	772	823	874
61	240	240	238	237	235	233	232	231	229	228	229	230	230	230	230	230
18	157	716	1265	1810	2355	2881	3408	3921	4431	4924	5401	5860	6310	6749	7184	7627
	18	81	143	204	266	325	385	443	500	556	610	662	712	762	811	861
68	270	270	269	267	265	264	261	261	258	256	256	258	259	260	260	260
20	96	650	1203	1750	2294	2820	3345	3857	4366	4865	5340	5801	6242	6686	7122	7553
	11	73	136	198	259	318	378	435	493	549	603	655	705	755	804	853
76	300	300	299	297	295	293	292	289	287	286	286	287	289	290	291	290
22	26	569	1111	1656	2195	2725	3250	3763	4268	4769	5259	5733	6182	6609	7030	7459
	3	64	125	187	248	308	367	425	482	538	594	647	698	746	794	842
83	330	330	330	328	327	324	322	320	316	314	313	314	316	318	320	320
25		425	967	1508	2042	2574	3093	3605	4110	4602	5084	5561	6028	6482	6899	7316
		48	109	170	231	291	349	407	464	520	574	628	681	732	779	826
95		375	375	374	372	369	366	364	361	358	357	356	358	361	364	364
30		179	723	1266	1800	2330	2852	3364	3868	4368	4856	5338	5811	6269	6701	7096
		20	82	143	203	263	322	380	437	493	548	603	656	708	757	801
114		450	450	450	449	447	443	439	436	433	430	430	431	434	437	438

179 } Torque lb-in
 20 } Nm
 450 } Speed RPM

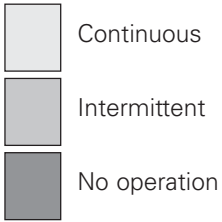
300cm³/r [18.3 in³/r]
ΔPressure Bar [PSI]

	17	34	52	69	86	103	121	138	155	172	190	207	224	241	259	276
	250	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
2	608	1257	1919	2553	3196	3824	4475	5087	5707	6307	6901	7472	8015	8484	8962	9413
	69	142	217	288	361	432	505	574	644	712	779	844	905	958	1012	1063
7.6	24	23	23	22	21	21	21	20	19	18	17	16	15	13	11	11
4	612	1283	1940	2587	3227	3856	4483	5094	5693	6293	6881	7462	8024	8574	9113	9629
	69	145	219	292	364	435	506	575	643	710	777	842	906	968	1029	1087
15	50	48	47	46	45	44	44	44	43	42	41	40	40	39	38	37
6	570	1248	1906	2547	3178	3800	4420	5025	5619	6203	6773	7345	7899	8449	8992	9525
	64	141	215	288	359	429	499	567	634	700	765	829	892	954	1015	1075
23	76	74	73	71	70	69	68	68	69	68	68	67	66	65	64	63
8	540	1210	1871	2522	3152	3781	4404	5008	5607	6186	6749	7319	7879	8433	8977	9512
	61	137	211	285	356	427	497	565	633	698	762	826	890	952	1013	1074
30	101	100	98	96	94	93	92	92	92	93	93	93	93	92	91	91
10	496	1161	1825	2471	3110	3733	4362	4968	5574	6157	6721	7274	7811	8356	8887	9416
	56	131	206	279	351	421	492	561	629	695	759	821	882	943	1003	1063
38	126	126	124	122	120	118	115	113	113	113	114	116	116	113	117	117
12	443	1108	1768	2418	3059	3688	4307	4918	5526	6114	6681	7239	7786	8338	8876	9411
	50	125	200	273	345	416	486	555	624	690	754	817	879	941	1002	1062
45	151	151	150	148	145	143	141	140	139	139	140	142	142	144	144	144
14	387	1034	1701	2346	2985	3610	4227	4839	5452	6050	6622	7184	7723	8269	8816	9362
	44	117	192	265	337	408	477	546	615	683	748	811	872	934	995	1057
53	177	177	176	173	171	168	166	165	163	163	165	167	169	171	170	170
16	366	961	1620	2264	2903	3530	4147	4753	5366	5960	6540	7098	7642	8169	8685	9211
	41	109	183	256	328	399	468	537	606	673	738	801	863	922	980	1040
61	202	202	201	199	197	195	192	190	189	188	188	189	191	194	196	196
18	291	893	1546	2187	2829	3450	4067	4678	5283	5873	6451	7005	7537	8064	8580	9103
	33	101	175	247	319	390	459	528	596	663	728	791	851	910	969	1028
68	227	227	227	224	222	219	217	215	213	211	212	214	217	220	221	221
20	204	797	1444	2094	2736	3361	3974	4585	5184	5775	6353	6907	7448	7974	8489	8992
	23	90	163	236	309	380	449	518	585	652	717	780	841	900	958	1015
76	252	252	252	251	249	246	243	241	239	238	238	239	242	245	247	248
22	102	710	1366	2013	2651	3270	3885	4496	5096	5689	6271	6831	7362	7877	8375	8880
	12	80	154	227	299	369	439	508	575	642	708	771	831	889	9	

Delta Series

Performance Data

347cm³/r [21.2 in³/r]
ΔPressure Bar [PSI]



Flow LPM [GPM]	347cm ³ /r [21.2 in ³ /r] ΔPressure Bar [PSI]															
	17 250	34 500	52 750	69 1000	86 1250	103 1500	121 1750	138 2000	155 2250	172 2500	190 2750	207 3000	224 3250	241 3500	259 3750	276 4000
2	687 78 20	1415 160 19	2128 240 18	2824 319 18	3532 399 17	4248 480 18	4947 558 17	5633 636 17	6298 711 16	6964 786 15	7575 855 14	8182 924 13	8743 987 12	9209 1040 9	9624 1087 8	10081 1138 4
4	689 78 42	1443 163 41	2179 246 41	2891 326 40	3606 407 39	4302 486 37	4986 563 38	5653 638 38	6316 713 39	6965 786 38	7615 860 38	8260 933 37	8891 1004 37	9515 1074 35	10120 1143 33	10698 1208 31
6	648 73 64	1406 159 64	2154 243 63	2866 324 61	3580 404 60	4276 483 58	4970 561 57	5641 637 57	6290 710 59	6921 781 60	7563 854 60	8190 925 59	8812 995 58	9427 1064 57	10029 1132 56	10630 1200 55
8	606 68 87	1356 153 86	2105 238 85	2825 319 84	3545 400 82	4241 479 81	4943 558 79	5621 635 78	6274 708 79	6899 779 81	7522 849 82	8144 919 81	8768 990 81	9388 1060 80	9998 1129 78	10598 1196 77
10	550 62 109	1295 146 108	2041 230 107	2765 312 106	3488 394 104	4188 473 103	4891 552 100	5585 631 98	6264 707 97	6899 779 98	7505 847 100	8091 913 103	8672 979 103	9283 1048 103	9885 1116 102	10488 1184 101
12	478 54 131	1227 139 130	1976 223 130	2698 305 129	3411 385 127	4108 464 125	4802 542 122	5479 619 119	6146 694 117	6782 766 115	7396 835 115	7992 902 119	8585 969 123	9176 1036 125	9767 1103 125	10345 1168 124
14	409 46 153	1151 130 153	1896 214 152	2624 296 152	3344 378 149	4048 457 147	4742 535 145	5418 612 142	6083 687 140	6722 759 139	7339 829 139	7939 896 143	8541 964 147	9142 1032 148	9738 1099 147	10318 1165 147
16	339 38 174	1033 117 174	1774 200 174	2494 282 174	3209 362 172	3907 441 169	4605 520 166	5280 596 164	5956 672 162	6610 746 159	7243 818 159	7850 886 160	8438 953 165	9014 1018 168	9592 1083 170	10166 1148 170
18	245 28 196	943 106 196	1676 189 196	2401 271 195	3113 351 193	3809 430 192	4500 508 189	5175 584 187	5837 659 185	6477 731 183	7107 802 181	7711 871 182	8308 938 185	8895 1004 188	9466 1069 192	10040 1133 193
20	143 16 218	832 94 218	1571 177 218	2290 259 218	3003 339 216	3697 417 214	4386 495 212	5050 570 209	5715 645 207	6351 717 205	6968 787 203	7569 855 203	8147 920 205	8721 985 210	9297 1050 214	9855 1113 215
22	34 4 240	715 81 240	1454 164 240	2175 246 240	2896 327 240	3594 406 238	4280 483 236	4950 559 233	5602 632 230	6236 704 228	6854 774 226	7449 841 226	8027 906 228	8590 970 231	9150 1033 237	9705 1096 240
25	523 59 272	1251 141 272	1969 222 272	2693 304 272	3395 383 272	4081 461 269	4756 537 266	5414 611 263	6057 684 261	6687 755 259	7296 824 259	7882 890 261	8457 955 265	9011 1017 270	9534 1076 272	
30	152 17 327	1072 121 327	1749 197 327	2434 275 327	3123 353 327	3802 429 323	4468 504 319	5114 577 315	5763 651 314	6400 723 313	7018 792 315	7633 862 319	8232 929 323	8819 996 327	9397 1016 327	

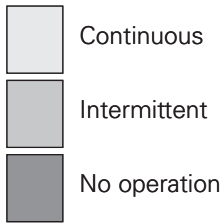
152 } Torque lb-in
 17 } Nm
 327 } Speed RPM

395cm³/r [24.1 in³/r]
ΔPressure Bar [PSI]

Flow LPM [GPM]	395cm ³ /r [24.1 in ³ /r] ΔPressure Bar [PSI]															
	17 250	34 500	52 750	69 1000	86 1250	103 1500	121 1750	138 2000	155 2250	172 2500	190 2750	207 3000	224 3250	241 3500	259 3750	276 4000
2	782 88 18	1622 183 17	2436 275 17	3237 365 16	4034 455 16	4837 546 16	5650 638 17	6428 726 16	7213 814 15	7911 893 15	8607 972 15	9235 1043 14	9798 1106 13	10439 1179 12		
4	770 87 38	1643 186 37	2476 280 36	3287 371 35	4088 462 33	4860 549 33	5617 634 35	6357 718 36	7103 802 36	7838 885 35	8566 967 35	9285 1048 34	9990 1128 34	10684 1206 33		
6	746 84 58	1609 182 57	2460 278 55	3280 370 54	4083 461 52	4867 549 51	5644 637 50	6384 721 51	7103 802 53	7811 882 54	8520 962 55	9232 1042 54	9930 1121 53	10616 1199 53		
8	699 79 77	1561 176 76	2430 274 75	3249 367 74	4062 459 72	4852 548 70	5638 637 68	6398 722 67	7126 805 69	7820 883 72	8506 960 74	9198 1038 74	9884 1116 74	10565 1193 73		
10	630 71 96	1489 168 96	2345 265 95	3180 359 93	4008 453 91	4819 544 90	5622 635 87	6397 722 85	7142 806 83	7856 887 83	8525 962 88	9142 1032 93	9776 1104 93	10438 1178 93		
12	556 63 115	1412 159 115	2264 256 115	3090 349 113	3898 440 111	4689 529 109	5473 618 107	6225 703 105	6976 788 102	7710 870 100	8415 950 100	9081 1025 105	9681 1093 110	10304 1163 113		
14	469 53 134	1325 150 134	2178 246 134	2999 339 133	3819 431 131	4611 521 128	5391 609 126	6137 693 124	6867 775 122	7581 856 120	8270 934 119	8942 1010 123	9598 1084 133	10234 1155 134		
16	360 41 153	1220 138 153	2069 234 153	2894 327 153	3715 419 151	4506 509 148	5290 597 145	6048 683 143	6782 766 140	7495 846 138	8190 925 138	8873 1002 139	9534 1076 145	10181 1149 151		
18	334 38 173	1098 124 173	1951 220 173	2777 314 173	3591 405 171	4386 495 169	5172 584 166	5924 669 162	6665 752 161	7387 834 159	8087 913 157	8763 989 158	9418 1063 162	10048 1134 169		
20	221 25 192	993 112 192	1837 207 192	2660 300 192	3479 393 191	4259 481 189	5030 568 186	5780 653 183	6518 736 181	7238 817 179	7939 896 177	8613 972 178	9258 1045 182	9892 1117 188		
22	115 13 211	862 97 211	1698 192 211	2521 285 211	3337 377 211	4135 467 209	4895 553 206	5641 637 203	6366 719 201	7067 798 200	7752 875 199	8414 950 200	9062 1023 204	9702 1095 209		
25	637 72 240	1473 166 240	2296 259 240	3117 352 240	3909 441 238	4687 529 235	5434 613 232	6163 696 229	6861 775 227	7536 851 227	8192 925 228	8829 997 228	9475 1070 233	10181 1149 240		
30	211 24 288	1079 122 288	1903 215 288	2725 308 288	3526 398 286	4311 487 283	5079 573 280	5824 658 277	6547 739 274	7240 817 273	7921 894 275	8577 968 280	9228 1042 287			

Delta Series

Performance Data



470cm³/r [28.7 in³/r]

ΔPressure Bar [PSI]

	17 250	34 500	52 750	69 1000	86 1250	103 1500	121 1750	138 2000	155 2250	172 2500	190 2750	207 3000
2	925 104 14	1885 213 14	2820 318 13	3727 421 12	4639 524 12	5526 624 12	6404 723 11	7270 821 10	8129 918 9	8978 1014 9	9794 1106 8	10551 1191 7
7.6												
4	942 106 31	1942 219 30	2917 329 29	3849 435 29	4776 539 28	5692 643 27	6594 744 27	7488 845 26	8352 943 25	9199 1039 24	10014 1131 23	10824 1222 23
15												
6	906 102 47	1921 217 46	2892 327 45	3833 433 45	4772 539 44	5676 641 43	6572 742 43	7440 840 42	8309 938 42	9152 1033 41	9974 1126 41	10786 1218 40
23												
8	856 97 63	1866 211 62	2853 322 62	3795 428 61	4730 534 60	5634 636 58	6520 736 57	7379 833 57	8230 929 56	9075 1025 55	9895 1117 54	10693 1207 53
30												
10	780 88 79	1799 203 79	2800 316 78	3745 423 77	4685 529 76	5594 632 75	6479 731 74	7337 828 72	8177 923 72	9009 1017 71	9843 1111 70	10638 1201 69
38												
12	699 79 96	1709 193 95	2711 306 94	3661 413 93	4597 519 92	5508 622 91	6403 723 90	7258 819 89	8101 915 89	8916 1007 88	9719 1097 87	10506 1186 86
45												
14	596 67 112	1612 182 111	2609 295 111	3561 402 110	4490 507 109	5390 608 107	6268 708 106	7112 803 104	7941 897 103	8743 987 101	9519 1075 101	10282 1161 100
53												
16	467 53 129	1486 168 128	2480 280 127	3440 388 126	4371 493 125	5268 595 123	6152 695 122	6992 789 120	7810 882 119	8601 971 117	9370 1058 116	10118 1142 116
61												
18	332 37 145	1353 153 145	2357 266 144	3317 375 143	4256 481 142	5157 582 140	6043 682 138	6892 778 136	7713 871 135	8501 960 134	9270 1047 132	10026 1132 133
68												
20	304 34 161	1226 138 161	2218 250 160	3172 358 159	4102 463 158	4994 564 157	5873 663 155	6731 760 153	7557 853 152	8365 944 150	9147 1033 149	9922 1120 150
76												
22	137 15 177	1059 120 177	2048 231 176	3004 339 176	3945 445 175	4840 546 174	5727 647 172	6576 742 170	7399 835 169	8198 926 167	8967 1012 166	9715 1097 166
83												
25		833 94 201	1816 205 201	2765 312 201	3680 415 200	4575 517 198	5455 616 196	6313 713 194	7133 805 193	7928 895 191	8691 981 191	9436 1065 192
95												
30		491 55 241	1318 149 241	2295 259 241	3232 365 241	4142 468 240	5022 567 237	5881 664 236	6721 759 236	7522 849 233	8300 937 232	9320 1052 227
114												

491 } Torque lb-in
55 } Nm
241 } Speed RPM




542cm³/r [33.1 in³/r]

ΔPressure Bar [PSI]

	17 250	34 500	52 750	69 1000	86 1250	103 1500	121 1750	138 2000	155 2250	172 2500
2	1131 128 13	2304 260 12	3433 388 11	4558 515 11	5668 640 11	6725 759 11	7732 873 10	8683 980 8	9645 1089 8	10457 1181 7
7.6										
4	1139 129 27	2352 266 26	3515 397 25	4638 524 25	5735 648 25	6781 766 25	7819 883 24	8809 994 23	9752 1101 23	10644 1202 22
15										
6	1063 120 41	2267 256 40	3433 388 39	4549 514 38	5645 637 38	6694 756 38	7697 869 39	8675 979 38	9630 1087 37	10557 1192 36
23										
8	992 112 56	2186 247 55	3354 379 54	4475 505 53	5578 630 52	6646 750 52	7665 865 51	8608 972 52	9535 1076 52	10449 1180 51
30										
10	897 101 70	2090 236 69	3259 368 68	4378 494 67	5482 619 67	6555 740 65	7602 858 64	8578 968 64	9482 1071 64	10343 1168 65
38										
12	807 91 84	1980 224 83	3138 354 83	4256 481 81	5365 606 80	6440 727 79	7494 846 78	8481 957 77	9403 1062 76	10275 1160 77
45										
14	693 78 98	1873 211 98	3028 342 97	4138 467 96	5218 589 95	6268 708 93	7318 826 91	8304 937 90	9235 1043 91	10105 1141 92
53										
16	554 63 112	1732 196 112	2882 325 111	3993 451 110	5083 574 109	6107 689 108	7118 804 106	8089 913 104	9032 1020 104	9928 1121 106
61										
18	409 46 126	1582 179 126	2738 309 126	3844 434 125	4924 556 124	5952 672 123	6956 785 121	7928 895 119	8874 1002 119	9772 1103 121
68										
20	355 40 140	1428 161 140	2587 292 140	3696 417 139	4767 538 138	5804 655 137	6813 769 136	7786 879 134	8732 986 134	9624 1087 135
76										
22	310 35 154	1259 142 154	2412 272 154	3518 397 154	4595 519 152	5619 634 151	6618 747 150	7589 857 148	8536 964 148	9438 1065 149
83										
25		958 108 174	2107 238 174	3215 363 174	4281 483 174	5310 599 173	6305 712 171	7264 820 170	8204 926 168	9110 1029 169
95										
30		521 59 209	1599 181 209	2696 304 209	3769 425 209	4804 542 208	5809 656 207	6776 765 207	7705 870 205	8617 973 205
114										

Delta Series

Performance Data

-  Continuous
-  Intermittent
-  No operation

649cm³/r [39.6 in³/r]
ΔPressure Bar [PSI]

	17 250	34 500	52 750	69 1000	86 1250	103 1500	121 1750	138 2000	155 2250
2	1365 154	2787 315	4156 469	5488 620	6775 765	7949 897	9102 1028	10174 1149	11100 1253
7.6	10	10	10	9	9	8	7	6	3
4	1326 150	2770 313	4113 464	5400 610	6632 749	7819 883	8973 1013	10030 1132	11015 1244
15	22	22	21	20	21	20	19	19	18
6	1258 142	2663 301	3998 451	5270 595	6521 736	7692 868	8774 991	9808 1107	10809 1220
23	35	34	33	32	32	32	32	32	31
8	1154 130	2558 289	3902 441	5195 587	6455 729	7659 865	8775 991	9770 1103	10708 1209
30	47	46	45	44	42	42	42	43	43
10	1045 118	2442 276	3787 428	5076 573	6331 715	7541 851	8691 981	9685 1093	10573 1194
38	58	58	57	56	55	53	53	54	55
12	928 105	2321 262	3662 413	4939 558	6193 699	7385 834	8536 964	9577 1081	10469 1182
45	70	70	70	68	67	66	65	65	66
14	740 84	2127 240	3469 392	4746 536	5989 676	7188 812	8352 943	9433 1065	10439 1179
53	82	82	82	81	80	79	77	76	76
16	614 69	1990 225	3318 375	4588 518	5795 654	6942 784	8081 912	9154 1033	10141 1145
61	93	93	93	93	92	91	90	89	90
18	448 51	1830 207	3158 356	4414 498	5619 634	6754 763	7853 887	8890 1004	9873 1115
68	105	105	105	105	104	103	102	102	104
20	281 32	1618 183	2944 332	4198 474	5410 611	6551 740	7653 864	8689 981	9676 1092
76	117	117	117	117	117	116	114	114	115
22	276 31	1518 171	2842 321	4099 463	5313 600	6453 728	7554 853	8596 970	9576 1081
83	128	128	128	128	128	128	126	125	126
25		1079	2393	3646	4834	5969	7071	8112	9105
95		122	270	412	546	674	798	916	1028
		146	146	146	146	146	145	144	144
30		436	1747	3013	4225	5356	6454	7489	8479
		49	197	340	477	605	729	845	957
		175	175	175	175	175	174	174	175

8479 } Torque lb-in
 957 } Nm
 175 } Speed RPM

754cm³/r [46.0 in³/r]
ΔPressure Bar [PSI]

	17 250	34 500	52 750	69 1000	86 1250	103 1500	121 1750	138 2000
2	1561 176	3128 353	4605 520	6014 679	7422 838	8721 985	9978 1127	10910 1232
7.6	9	8	8	8	7	7	6	5
4	1548 175	3142 355	4650 525	6029 681	7350 830	8605 971	9785 1105	10892 1230
15	19	18	18	18	18	18	17	17
6	1470 166	3084 348	4608 520	6022 680	7346 829	8555 966	9722 1098	10850 1225
23	30	29	28	27	27	27	27	27
8	1359 153	2975 336	4504 509	5925 669	7263 820	8488 958	9638 1088	10694 1207
30	40	39	38	38	37	36	37	38
10	1240 140	2844 321	4364 493	5815 656	7185 811	8458 955	9603 1084	10584 1195
38	50	50	49	48	47	46	46	47
12	1079 122	2686 303	4207 475	5641 637	7008 791	8248 931	9390 1060	10400 1174
45	60	60	60	59	58	57	57	57
14	932 105	2512 284	4038 456	5477 618	6850 773	8124 917	9274 1047	10286 1161
53	70	70	70	70	69	68	67	67
16	753 85	2328 263	3834 433	5246 592	6577 742	7831 884	8999 1016	10040 1133
61	80	80	80	80	80	79	78	78
18	547 62	2119 239	3632 410	5024 567	6320 714	7551 852	8706 983	9721 1097
68	90	90	90	90	90	90	90	90
20	310 35	1919 217	3430 387	4826 545	6126 692	7339 829	8466 956	9430 1065
76	100	100	100	100	100	100	100	100
22	248 28	1666 188	3172 358	4571 516	5878 664	7102 802	8254 932	9269 1046
83	110	110	110	110	110	110	110	110
25		1261	2784	4191	5504	6727	7873	8911
95		142	314	473	621	759	889	1006
		126	126	126	126	126	126	126
30		545	2055	3474	4800	6036	7175	8231
		62	232	392	542	681	810	929
		151	151	151	151	151	151	151

Delta Series

Dimensions

Wheel Mount

Ports

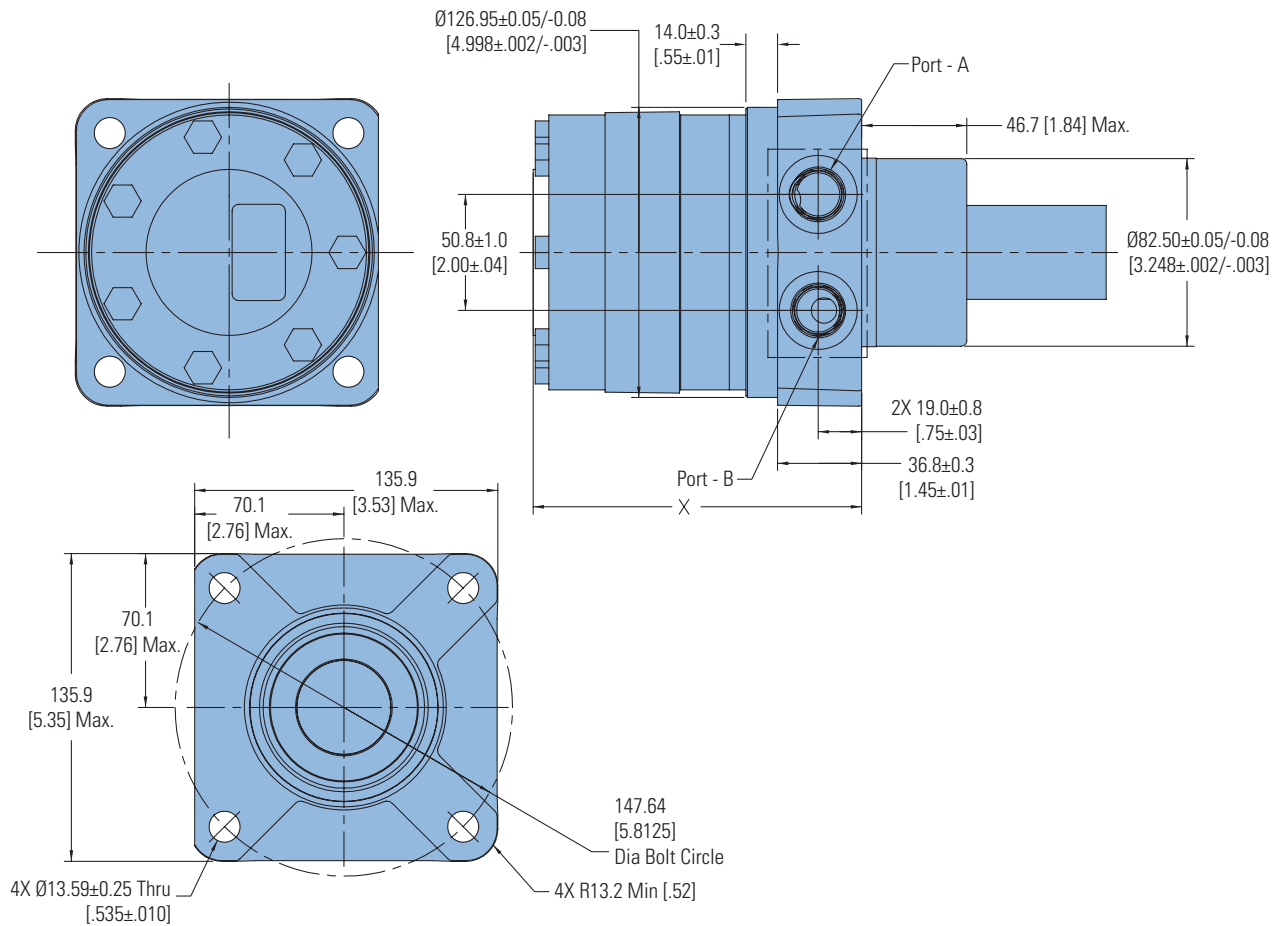
7/8 -14 UNF-2B SAE O-ring Ports

G 1/2 (BSP) Ports

Standard Rotation Viewed from Shaft End

Port A Pressurized — CCW

Port B Pressurized — CW



DISPLACEMENT CODE	X MAX	CODE	MAX
069	130.6 [5.14]	212	156.5 [6.16]
089	135.9 [5.35]	241	162.6 [6.40]
121	144.3 [5.68]	287	172.5 [6.79]
143	150.4 [5.92]	331	181.9 [7.16]
154	153.2 [6.03]	396	195.6 [7.70]
183	150.4 [5.92]	460	209.0 [8.23]

Delta Series

Dimensions

Standard Mount

Ports

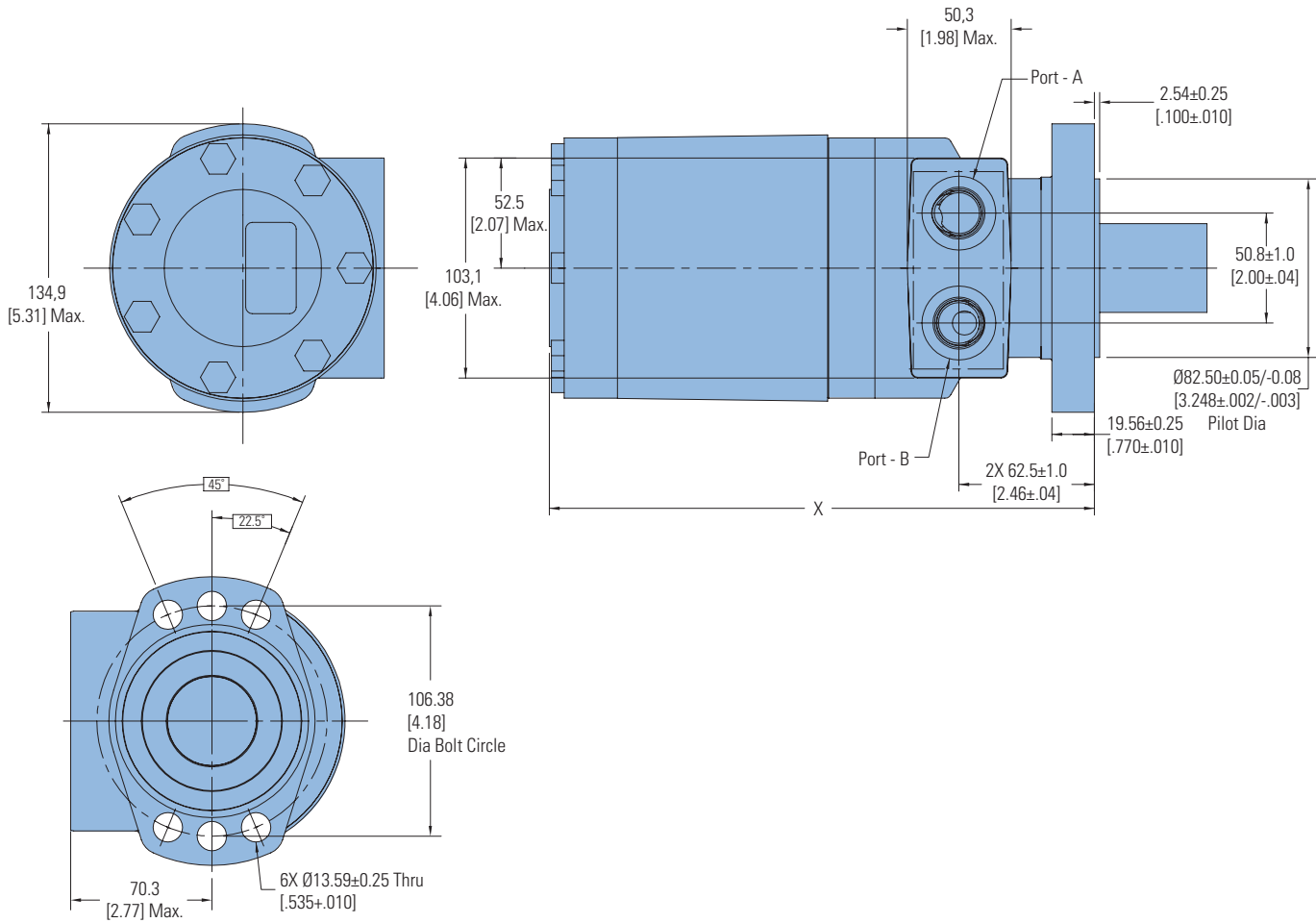
7/8 -14 UNF-2B SAE O-ring Ports

G 1/2 (BSP) Ports

Standard Rotation Viewed from Shaft End

Port A Pressurized — CCW

Port B Pressurized — CW



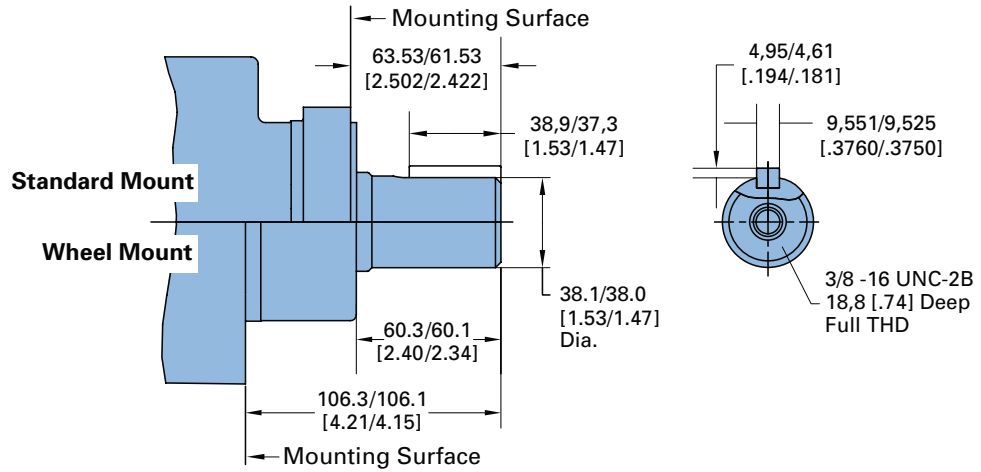
DISPLACEMENT CODE	X MAX	CODE	MAX
069	173.8 [6.84]	212	199.8 [7.87]
089	179.7 [7.08]	241	206.0 [8.11]
121	187.7 [7.39]	287	215.8 [8.50]
143	193.7 [7.63]	331	225.1 [8.86]
154	196.5 [7.74]	396	238.8 [9.40]
183	193.7 [7.63]	460	252.3 [9.93]

Delta Series

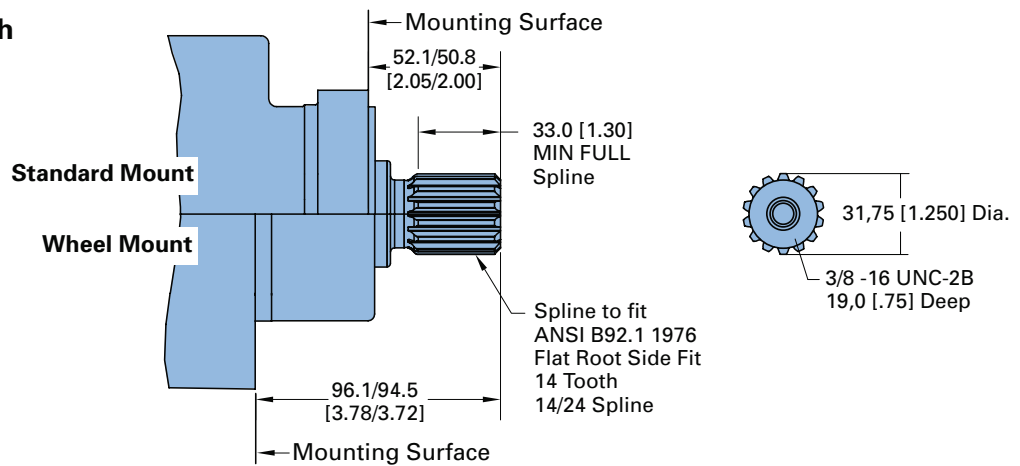
Dimensions

Shafts

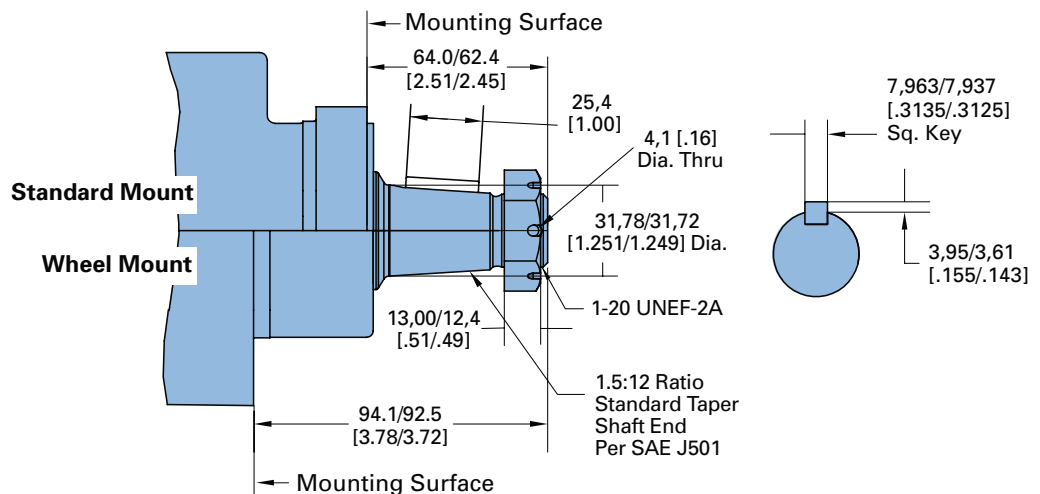
1 1/2 Inch Straight



1 1/4 Inch 14 Tooth Splined



1 1/4 Inch Tapered



Delta Series

Shaft Side Load Capacity

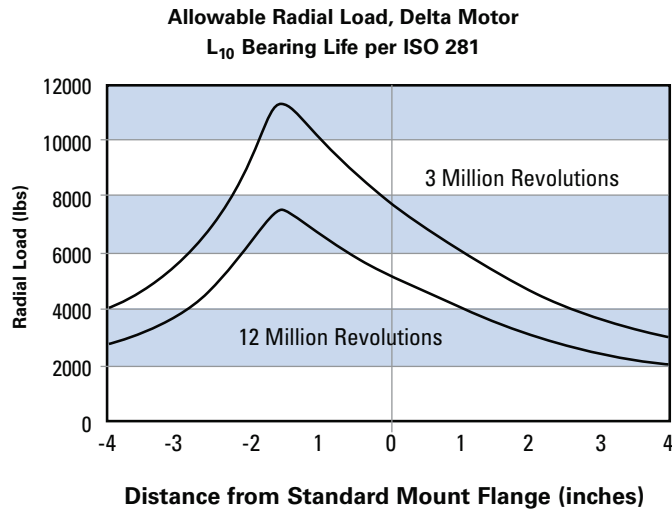
These curves indicate the radial load capacity on the motor shaft(s) at various locations.

Each curve is based on B 10 bearing life (2000 hours of 12,000,000 shaft revolutions at 100 RPM) at rated output torque.

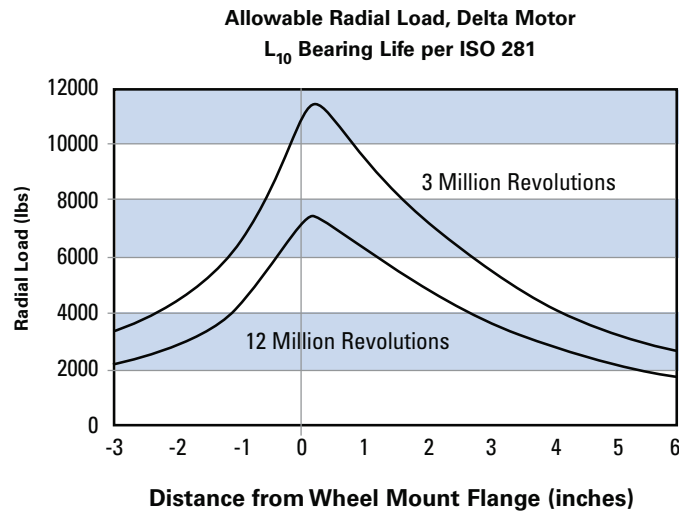
To determine radial load at speeds other than 100 RPM, multiply the load values given on the bearing curve by the factors in the chart below.

RPM	Multiplication Factor
50	1.23
100	1.00
200	0.81
300	0.72
400	0.66
500	0.62
600	0.58
700	0.56
800	0.54

Side Load Chart for Standard Mount



Side Load Chart for Wheel Mount



Delta Series

Product Numbers

Note:

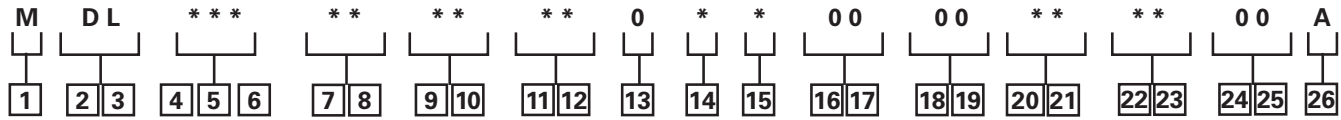
For Delta Series Motors with a configuration **Not Shown** in the charts below contact your Eaton Representative.

Mounting	Shaft	Port Size	Timing	Displacement cm^3/r [in^3/r] / Product Number				
				113 [6.9]	146 [8.9]	198 [12.1]	234 [14.3]	
Wheel Motor	1-1/4 Inch Tapered	7/8" O-ring	Standard -CCW	184-0005-002	184-0006-002	184-0002-002	184-0001-002	
			Standard -CW	184-0025-002	184-0026-002	184-0027-002	184-0028-002	
	1-1/2 Inch 17 T Splined	7/8" O-ring	Standard -CCW	184-0013-002	184-0014-002	184-0015-002	184-0016-002	
			Standard -CW	184-0037-002	184-0038-002	184-0039-002	184-0040-002	
					252 [15.4]	300 [18.3]	347 [21.2]	395 [24.1]
	1-1/4 Inch Tapered	7/8" O-ring	Standard -CCW	184-0003-002	184-0004-002	184-0007-002	184-0008-002	
			Standard -CW	184-0029-002	184-0030-002	184-0031-002	184-0032-002	
		1-1/2 Inch 17 T Splined	7/8" O-ring	Standard -CCW	184-0017-002	184-0018-002	184-0019-002	184-0020-002
				Standard -CW	184-0041-002	184-0042-002	184-0043-002	184-0044-002
					470 [28.7]	542 [33.1]	649 [39.6]	754 [46.0]
	1-1/4 Inch Tapered	7/8" O-ring	Standard -CCW	184-0009-002	184-0010-002	184-0011-002	184-0012-002	
			Standard -CW	184-0033-002	184-0034-002	184-0035-002	184-0036-002	
1-1/2 Inch 17 T Splined		7/8" O-ring	Standard -CCW	184-0021-002	184-0022-002	184-0023-002	184-0024-002	
			Standard -CW	184-0045-002	184-0046-002	184-0047-002	184-0048-002	

Delta Series

Model Code

The following 26-digit coding system has been developed to identify all of the configuration options for the Delta Low Speed High Torque motor. Use this model code to specify a motor with the desired features. All 26 digits of the code must be present when ordering. You may want to photocopy the matrix below to ensure that each number is entered in the correct box.



1 Product

M – Motor

2, 3 Series

DL – Delta Series

4, 5, 6 Displacement

cm³/r [in³/r]

069 – 113 [6.9]

089 – 146 [8.9]

121 – 198 [12.1]

143 – 234 [14.3]

154 – 252 [15.4]

183 – 300 [18.3]

212 – 347 [21.2]

241 – 395 [24.1]

287 – 470 [28.7]

331 – 542 [33.1]

396 – 649 [39.6]

460 – 754 [46.0]

7, 8 Mounting Type

AA – Wheel, 4 Bolt: 82.6 [3.25] Pilot Dia. 13.59 [.535] Dia. Holes On 147.6 [5.81] Dia. Bolt Circle. 127.0 [5.00] Dia. Rear Mount Pilot

AB – Standard, 6 Bolt: 82.6 [3.25] Pilot Dia. 13.59 [.535] Dia. Holes on 106.4 [4.19] Dia. Bolt Circle. .100 [2.54] Pilot Length. Sae A, Magneto

AC – Standard, 6 Bolt: 82.6 [3.25] Pilot Dia. 13.59 [.535] Dia. Holes on 106.4 [4.19] Dia. Bolt Circle. .250 [6.35] Pilot Length. SAE A, Magneto

9, 10 Output Shaft

01 – 38.10 [1.500] Dia. Straight with .375-16 UNC-2B Thread, and 9.52 [.375] Sq x 25.40 [1.000] Straight Key

02 – 31.75 [1.250] Dia. .125:1 Tapered Shaft per SAE J501 with 1.000-20 UNEF-2A Threaded Shaft End and Slotted Hex Nut, 7.938 [.3125] Sq x 25.40 [1.000] Straight Key

03 – 41.30 [1.626] Dia. .125:1 Tapered Shaft per SAE J501 with 1.250-18 UNEF-2A Threaded Shaft End and Slotted Hex Nut, 11.125 [.4380] Sq x 34.04 [1.340] Straight Key

04 – 31.75 [1.250] Dia. Flat Root Side Fit, 14 Tooth, 12/24 DP 30 Deg. Involute Spline with .375-16 UNC-2B Thread in End, 33.0 [1.30] Minimum Full Spline Length

05 – 38.10 [1.500] Dia. Flat Root Side Fit, 17 Tooth, 12/24 DP 30 Deg. Involute Spline, 31.8 [1.25] Minimum Full Spline Length, with .375-16 UNC-2B Thread in End

06 – 38.10 [1.500] Dia. Tapered Shaft per SAE J501 with 1.000-20 UNEF-2A Thread in End, 7.938 [.3125] Sq x 31.75 [1.250] Key

11, 12 Ports

AA – .875-14 UNF-2B SAE O-Ring

AC – G 1/2 BSP Straight Thread

13 Pressure/Flow Option

0 – None

14 Geroler Option

0 – Standard

B – Tight Fitting Geroler

15 Seal Option

00 – Standard Seals

02 – Seal Guard

03 – Viton Seals

04 – Viton Shaft Seal

11 – High pressure shaft seal, slinger seal

19 – Extreme duty seal guard

16, 17 Accessories

00 – None

18, 19 Special Features (Hardware)

00 – None

20, 21 Special Features (Assembly)

00 – Standard Rotation - CCW

01 – Standard Rotation - CW

22, 23 Paint/Packaging

AA – No Paint, Individual Box

AB – Low Gloss Black Primer, Individual Box

AC – Epoxy Coated (Frost Gray), Individual Box

AE – No Paint, Bulk Box

AF – Low Gloss Black Primer, Bulk Box

24, 25 Customer Identification

00 – None

26 Design Code

B – Two (2)

Feature in **bold** are preferred and allow for shorter lead time.