

DT Series

Heavy Duty Hydraulic Motor



DT (All Series)

For Heavy Duty Applications

OVERVIEW

The most amazing aspect of the DT Series motor is its huge torque potential from its relatively small size. The DT Series motor is capable of producing output torque comparable to competitive designs, but from a package that is both shorter and lighter. The savings in space and weight in no way compromises durability, as the motor uses massive shafts, bearings and drive links to transmit the torque produced by this powerful package. The use of a case drain allows reduced pressure on the shaft seal while maintaining drive-line lubrication for maximum motor life. Standard mounting and shaft options offer interchangeability with competitive designs. An internal drain option is also available.

FEATURES / BENEFITS

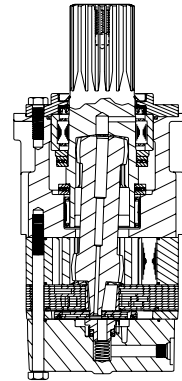
- Heavy-Duty Roller Bearing supports high side loads and receives forced lubrication for cooling and increased life.
- Compact Housing contributes to high power-to-weight ratio of motor and offers front and rear mounting flanges.
- Heavy-Duty Drive Link receives forced lubrication for long life and is capable of extreme duty cycles.
- Roller Stator® Motor available in displacements up to 2093 cm³ [127.7 in³] for high torque output.
- Three-Zone Orbiting Valve precisely meters oil to produce exceptional volumetric efficiencies.

TYPICAL APPLICATIONS

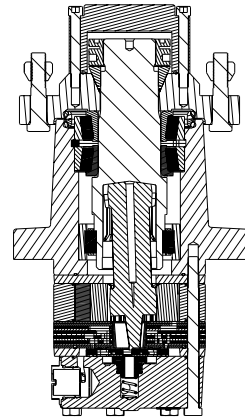
Heavy-duty wheel drives, augers, mixers, pumping units, conveyors, boring machines, rotators, mining equipment, forestry equipment and more and more

SERIES DESCRIPTIONS

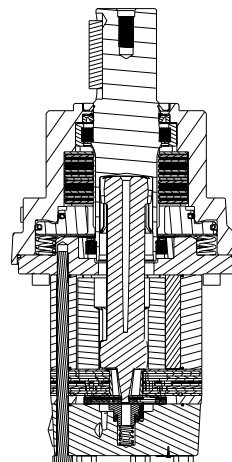
700 - Hydraulic Motor
Standard



740 - Hydraulic Motor
With Wheel Hub



710 - Hydraulic Motor
With Integral Hydraulic Brake



SPECIFICATIONS

CODE	Displacement cm ³ [in ³ /rev]	Max. Speed rpm		Max. Flow lpm [gpm]		Max. Torque Nm [lb-in]		Max. Pressure bar [psi]		
		cont.	inter.	cont.	inter.	cont.	inter.	cont.	inter.	peak
300	300 [18.3]	320	380	95 [25]	114 [30]	819 [7250]	955 [8450]	207 [3000]	241 [3500]	259 [3750]
375	374 [22.8]	250	300	95 [25]	114 [30]	1045 [9250]	1127 [9975]	207 [3000]	224 [3250]	241 [3500]
470	464 [28.3]	200	240	95 [25]	114 [30]	1071 [9475]	1390 [12300]	172 [2500]	224 [3250]	241 [3500]
540	536 [32.7]	180	210	95 [25]	114 [30]	1277 [11300]	1525 [13500]	172 [2500]	207 [3000]	241 [3500]
750	747 [45.6]	130	150	95 [25]	114 [30]	1780 [15750]	2090 [18500]	172 [2500]	207 [3000]	241 [3500]
930	929 [56.7]	100	120	95 [25]	114 [30]	1780 [15750]	2141 [18950]	138 [2000]	172 [2500]	207 [3000]
1K1	1047 [63.9]	90	110	95 [25]	114 [30]	1915 [16950]	2316 [20500]	138 [2000]	172 [2500]	207 [3000]
1K5	1495 [91.2]	60	70	95 [25]	114 [30]	2090 [18500]	2316 [20500]	103 [1500]	121 [1750]	138 [2000]
2K1	2093 [127.7]	40	50	95 [25]	114 [30]	2661 [23550]	3342 [29580]	103 [1500]	121 [1750]	138 [2000]

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 9 for additional information on product testing. Running at intermittent ratings should not exceed 10% of every minute of operation.

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DISPLACEMENT PERFORMANCE

		Pressure - bar [psi]						Max. Cont.	Max. Inter.	
300		17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	241 [3500]	
300 cm ³ [18.3 in ³] / rev								Intermittent Ratings - 10% of Operation		
Flow - lpm [gpm]	2 [0.5]	54 [476] 3	115 [1014] 4	237 [2100] 2					7	
	4 [1]	47 [415] 11	108 [952] 5	255 [2256] 3	380 [3363] 5	486 [4304] 3			13	
	8 [2]	49 [435] 24	119 [1057] 23	257 [2278] 21	410 [3628] 19	543 [4801] 15	671 [5942] 12	789 [6983] 9	899 [7959] 7	
	15 [4]	49 [430] 50	120 [1064] 49	264 [2336] 46	409 [3616] 43	554 [4904] 37	701 [6202] 32	839 [7424] 28	971 [8595] 26	
	23 [6]		116 [1025] 75	278 [2462] 69	420 [3719] 65	567 [5019] 58	712 [6297] 54	854 [7554] 51	983 [8701] 46	
	30 [8]		105 [929] 100	251 [2222] 97	396 [3506] 93	542 [4793] 56	692 [6122] 54	831 [7353] 50	974 [8621] 46	
	38 [10]		99 [877] 126	237 [2099] 122	388 [3438] 115	549 [4857] 113	687 [6081] 107	833 [7369] 96	970 [8588] 90	
	45 [12]		88 [762] 151	237 [2094] 150	378 [3342] 140	527 [4666] 135	666 [5893] 129	823 [7281] 119	963 [8523] 113	
	53 [14]		77 [679] 176	211 [1864] 175	361 [3191] 172	506 [4478] 164	656 [5802] 156	805 [7121] 151	951 [8420] 140	
	61 [16]		60 [528] 201	208 [1845] 200	359 [3179] 189	495 [4378] 185	648 [5731] 178	791 [6999] 172	928 [8213] 165	
	68 [18]			191 [1694] 225	335 [2961] 222	497 [4402] 211	632 [5592] 206	776 [6871] 196	914 [8093] 189	
	76 [20]			168 [1489] 251	320 [2835] 247	461 [4083] 240	610 [5401] 233	764 [6762] 228	897 [7934] 216	
	83 [22]			147 [1298] 276	302 [2675] 272	444 [3926] 269	588 [5205] 258	742 [6570] 249	883 [7810] 234	
	91 [24]			123 [1086] 300	272 [2409] 278	414 [3666] 296	558 [4934] 290	708 [6264] 281	851 [7535] 272	
95 [25]			108 [958] 315	257 [2278] 313	393 [3482] 308	549 [4857] 300	694 [6139] 289	839 [7421] 280		
114 [30]				186 [1642] 376	333 [2945] 372	473 [4189] 369				
Rotor Width		Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐								
25.4 [1.000]		Theoretical Torque - Nm [lb-in]								
mm [in]		82 [729]	165 [1457]	329 [2914]	494 [4371]	659 [5828]	823 [7285]	988 [8742]	1152 [10199]	
		Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]								
		Pressure - bar [psi]						Max. Cont.	Max. Inter.	
375		17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	224 [3250]	
375 cm ³ [22.8 in ³] / rev								Intermittent Ratings - 10% of Operation		
Flow - lpm [gpm]	2 [0.5]	65 [574] 4	144 [1272] 3	302 [2670] 2	449 [3970] 1				6	
	4 [1]	66 [583] 9	152 [1345] 8	312 [2757] 7	475 [4208] 4	625 [5535] 4			11	
	8 [2]	67 [596] 19	154 [1365] 18	329 [2907] 17	496 [4388] 14	644 [5695] 12	805 [7122] 10	963 [8524] 8	1050 [9288] 7	
	15 [4]	71 [627] 40	158 [1400] 39	337 [2982] 37	513 [4536] 34	680 [6020] 30	858 [7596] 27	1013 [8962] 25	1099 [9723] 23	
	23 [6]	64 [570] 60	151 [1334] 60	336 [2969] 58	520 [4598] 54	694 [6141] 49	871 [7704] 74	1048 [9275] 41	1115 [9867] 41	
	30 [8]	53 [467] 81	151 [1337] 80	325 [2876] 78	512 [4532] 47	691 [6113] 69	873 [7724] 63	1051 [9304] 60	1126 [9964] 59	
	38 [10]		131 [1161] 101	313 [2768] 99	502 [4439] 95	686 [6075] 89	884 [7824] 82	1049 [9281] 79	1131 [10011] 77	
	45 [12]		112 [995] 121	308 [2725] 120	494 [4375] 116	685 [6059] 109	862 [7626] 103	1053 [9321] 98	1137 [10066] 97	
	53 [14]		99 [878] 141	283 [2508] 140	469 [4149] 136	645 [5705] 131	844 [7467] 125	1013 [8965] 117	1116 [9877] 115	
	61 [16]		75 [662] 162	262 [2319] 161	443 [3923] 160	631 [5587] 155	823 [7283] 148	1009 [8930] 143	1114 [9859] 136	
	68 [18]			248 [2198] 181	427 [3779] 178	612 [5416] 175	804 [7119] 167	1005 [8895] 160	1091 [9653] 156	
	76 [20]			218 [1925] 202	403 [3568] 200	583 [5161] 195	778 [6886] 189	966 [8549] 178	1071 [9474] 173	
	83 [22]			189 [1676] 222	375 [3318] 221	561 [4967] 217	754 [6669] 211	942 [8335] 201	1036 [9171] 196	
	91 [24]			155 [1374] 242	344 [3041] 240	535 [4732] 237	724 [6410] 229			
95 [25]				321 [2839] 252	519 [4596] 249	710 [6283] 241				
114 [30]				238 [2110] 303	432 [3820] 301	622 [5503] 296				
Rotor Width		Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐								
31.8 [1.252]		Theoretical Torque - Nm [lb-in]								
mm [in]		103 [908]	205 [1815]	410 [3631]	615 [5446]	821 [7261]	1026 [9076]	1231 [10892]	1333 [11799]	
		Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]								

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 10.03 for additional information on product testing.



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DISPLACEMENT PERFORMANCE

Pressure - bar [psi]										Max. Cont.		Max. Inter.					
470										17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	224 [3250]
465 cm³ [28.3 in³] / rev										Intermittent Ratings - 10% of Operation							
Flow - lpm [gpm]	Torque - Nm [lb-in], Speed rpm																
	2 [0.5]	86 [762] 3	201 [1780] 7	401 [3553] 2													5
	4 [1]	92 [817] 7	195 [1728] 6	406 [3597] 5	610 [5395] 13	806 [7137] 4											9
	8 [2]	94 [835] 15	199 [1761] 14	418 [3702] 13	631 [5580] 11	832 [7365] 9	1042 [9226] 21	1239 [10961] 8								17	
	15 [4]	92 [815] 48	202 [1784] 32	426 [3769] 46	646 [5717] 50	849 [7513] 24	1066 [9430] 43	1272 [11256] 21	1381 [12217] 19							33	
	23 [6]	82 [729] 48	203 [1799] 46	423 [3744] 53	647 [5725] 59	855 [7565] 43	1070 [9473] 36	1275 [11287] 34	1365 [12083] 32							49	
	30 [8]	67 [595] 65	185 [1641] 79	414 [3663] 63	642 [5683] 78	867 [7671] 50	1078 [9538] 47	1300 [11508] 46	1398 [12367] 44							66	
	38 [10]	52 [459] 81	170 [1503] 81	399 [3532] 96	630 [5573] 93	857 [7584] 69	1077 [9531] 77	1283 [11352] 61	1393 [12323] 58							82	
	45 [12]		153 [1354] 97	380 [3366] 96	613 [5422] 93	842 [7454] 88	1072 [9488] 83	1302 [11523] 74	1394 [12334] 68							98	
53 [14]		127 [1121] 114	359 [3173] 113	591 [5229] 110	823 [7282] 104	1057 [9350] 97	1270 [11242] 89	1392 [12318] 85							115		
61 [16]		100 [888] 160	335 [2964] 129	564 [4993] 127	798 [7061] 119	1030 [9118] 114	1254 [11101] 108	1369 [12118] 102							131		
68 [18]		67 [595] 146	304 [2689] 145	535 [4734] 143	765 [6772] 137	1003 [8875] 132	1229 [10877] 120	1348 [11926] 114							147		
76 [20]			274 [2428] 162	504 [4458] 160	733 [6485] 155	965 [8536] 148	1197 [10592] 139	1318 [11668] 136							164		
83 [22]			226 [2003] 178	458 [4050] 175	691 [6118] 172	928 [8215] 165	1150 [10181] 156	1266 [11200] 154							180		
91 [24]			176 [1554] 194	415 [3670] 192	669 [5917] 190	885 [7833] 183										196	
95 [25]				389 [3442] 203	632 [5589] 198	867 [7676] 190										205	
114 [30]				277 [2451] 243	514 [4549] 240	755 [6684] 235										245	
Rotor Width																	
39.4 [1.553]																	
mm [in]																	
Theoretical Torque - Nm [lb-in]																	
127 [1127] 255 [2253] 509 [4506] 764 [6760] 1018 [9013] 1273 [1126] 1528 [13519] 1655 [14646]																	
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]																	
Pressure - bar [psi]										Max. Cont.		Max. Inter.					
540										17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	
536 cm³ [32.7 in³] / rev										Intermittent Ratings - 10% of Operation							
Flow - lpm [gpm]	Torque - Nm [lb-in], Speed rpm																
	2 [0.5]	103 [908] 2	215 [1607] 5	421 [3722] 1													4
	4 [1]	104 [917] 6	228 [2016] 13	454 [4015] 4	666 [5897] 3	874 [7730] 1											8
	8 [2]	108 [954] 13	231 [2043] 12	474 [4191] 11	704 [6231] 9	925 [8190] 5	1153 [10201] 4									15	
	15 [4]	102 [906] 27	232 [2052] 26	503 [4448] 24	756 [6692] 21	994 [8799] 18	1221 [10806] 15	1461 [12930] 13								29	
	23 [6]	98 [866] 42	230 [2038] 41	498 [4404] 39	766 [6774] 36	1023 [9049] 30	1268 [11225] 27	1494 [13219] 24								43	
	30 [8]	84 [744] 56	213 [1883] 55	484 [4280] 53	754 [6669] 51	1032 [9130] 42	1273 [11262] 38	1524 [13486] 34								57	
	38 [10]	63 [561] 70	195 [1727] 69	466 [4122] 68	737 [6519] 64	1006 [8903] 57	1285 [11374] 49	1532 [13556] 46								71	
	45 [12]	42 [373] 84	179 [1586] 83	444 [3928] 82	717 [6349] 76	984 [8710] 72	1274 [11277] 65	1518 [13436] 57								85	
53 [14]		146 [1295] 97	421 [3722] 95	694 [6139] 93	964 [8529] 87	1253 [11091] 80	1512 [13381] 70								99		
61 [16]		116 [1025] 113	391 [3460] 111	663 [5865] 108	930 [8230] 103	1206 [10675] 97	1479 [13086] 84								114		
68 [18]		90 [798] 127	356 [3153] 125	629 [5563] 123	900 [7969] 116	1192 [10550] 107	1451 [12841] 100								128		
76 [20]		56 [498] 141	330 [2923] 139	595 [5265] 137	887 [7850] 133	1158 [10250] 123	1421 [12578] 114								142		
83 [22]			278 [2464] 155	549 [4859] 153	822 [7271] 148	1121 [9919] 136	1388 [12283] 133								156		
91 [24]			243 [2154] 169	508 [4494] 166	794 [7024] 164	1054 [9325] 156										170	
95 [25]			220 [1948] 176	486 [4299] 174	762 [6741] 169	1025 [9075] 163										177	
114 [30]			90 [800] 211	366 [3237] 210	638 [5649] 207	920 [8144] 203										212	
Rotor Width																	
45.5 [1.791]																	
mm [in]																	
Theoretical Torque - Nm [lb-in]																	
147 [1302] 294 [2604] 588 [5207] 883 [7811] 1177 [10414] 1471 [13018] 1765 [15621]																	
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]																	
Rotor Width																	
45.5 [1.791]																	
mm [in]																	

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 10.03 for additional information on product testing.



DT (All Series)
For Heavy Duty Applications

DISPLACEMENT PERFORMANCE

		Pressure - bar [psi]						Max. Cont.	Max. Inter.		
750		17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]			
748 cm³ [45.6 in³] / rev											
		Torque - Nm [lb-in], Speed rpm						Intermittent Ratings - 10% of Operation			
Flow - lpm [gpm]	2 [0.5]	144 [1276] 1	290 [2566] 1						3		
	4 [1]	154 [1367] 4	323 [2863] 3	669 [5917] 2	931 [8242] 2				6		
	8 [2]	162 [1435] 9	341 [3015] 9	712 [6302] 9	1021 [9038] 7	1305 [11550] 3			11		
	15 [4]	158 [1400] 19	348 [3080] 19	723 [6399] 17	1082 [9578] 15	1402 [12410] 11			21		
	23 [6]	144 [1273] 30	331 [2927] 30	714 [6317] 27	1083 [9583] 24	1433 [12678] 20	1744 [15430] 16		31		
	30 [8]	126 [1116] 40	328 [2900] 34	697 [6167] 37	1072 [9486] 34	1451 [12843] 25	1769 [15658] 20		41		
	38 [10]	104 [922] 50	291 [2574] 50	675 [5976] 47	1055 [9334] 44	1445 [12785] 36	1786 [15805] 28	2076 [18373] 19	51		
	45 [12]	77 [682] 60	269 [2382] 59	655 [5792] 58	1032 [9136] 54	1431 [12668] 49	1786 [15801] 36	2094 [18528] 30	61		
	53 [14]	46 [410] 70	239 [2116] 69	627 [5545] 68	1003 [8880] 65	1407 [12451] 59	1767 [15634] 45	2099 [18578] 37	71		
	61 [16]		201 [1780] 81	584 [5164] 79	971 [8592] 76	1345 [11907] 70	1743 [15422] 57	2065 [18271] 44	82		
	68 [18]		161 [1421] 91	545 [4819] 90	928 [8209] 86	1306 [11556] 80	1709 [15120] 69		92		
	76 [20]		120 [1058] 101	497 [4395] 100	863 [7635] 97	1260 [11154] 90			102		
	83 [22]			444 [3926] 110	831 [7351] 108	1213 [10737] 101			112		
	91 [24]			389 [3447] 121	785 [6947] 117	1196 [10581] 111			122		
	95 [25]			368 [3255] 126	757 [6697] 124	1144 [10126] 120			127		
114 [30]			205 [1813] 151	613 [5428] 149	979 [8665] 146			152			
Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐											
Theoretical Torque - Nm [lb-in]											
Rotor Width											
63.5 [2.501]		205 [1815] 410 [3631] 821 [7261] 1231 [10892] 1641 [14522] 2051 [18153] 2462 [21783]									
mm [in]											
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]											
		Pressure - bar [psi]						Max. Cont.	Max. Inter.		
930		17 [250]	35 [500]	52 [750]	69 [1000]	86 [1250]	104 [1500]	121 [1750]	138 [2000]	155 [2250]	173 [2500]
929 cm³ [56.7 in³] / rev											
		Torque - Nm [lb-in], Speed rpm						Intermittent Ratings - 10% of Operation			
Flow - lpm [gpm]	2 [0.5]	180 [1590] 1	387 [3423] 1	607 [5368] 1	801 [7089] 1						3
	4 [1]	196 [1734] 4	418 [3696] 3	653 [5780] 3	864 [7649] 3	1067 [9447] 3	1294 [11451] 3				5
	8 [2]	205 [1816] 8	442 [3907] 7	680 [6015] 7	877 [7764] 7	1117 [9886] 7	1300 [11501] 6	1510 [13365] 5			9
	15 [4]	198 [1753] 16	432 [3825] 16	664 [5878] 15	906 [8021] 15	1121 [9924] 15	1338 [11840] 14	1556 [13769] 13	1730 [15306] 11		17
	23 [6]	185 [1633] 24	420 [3719] 24	651 [5765] 24	908 [8034] 24	1123 [9935] 23	1355 [11991] 22	1543 [13651] 20	1794 [15873] 18	1981 [17532] 16	25
	30 [8]	162 [1438] 32	404 [3576] 31	636 [5624] 30	893 [7900] 30	1107 [9800] 29	1340 [11854] 28	1581 [13988] 27	1776 [15716] 24	1985 [17570] 22	33
	38 [10]	125 [1109] 40	368 [3253] 40	626 [5536] 39	845 [7476] 38	1087 [9620] 38	1314 [11625] 36	1497 [13251] 34	1736 [15364] 31	1956 [17306] 28	41
	45 [12]	91 [807] 48	341 [3018] 47	578 [5111] 46	815 [7213] 45	1072 [9487] 44	1314 [11630] 42	1525 [13492] 41	1713 [15159] 36	1946 [17222] 33	49
	53 [14]	35 [310] 57	290 [2565] 56	533 [4715] 55	765 [6772] 54	1024 [9059] 52	1240 [10974] 50	1487 [13155] 49	1727 [15287] 45	1945 [17261] 43	58
	61 [16]		239 [2118] 64	484 [4281] 63	726 [6429] 62	959 [8488] 61	1210 [10708] 59	1450 [12830] 57	1696 [15008] 54	1925 [17039] 50	66
	68 [18]		205 [1811] 72	440 [3891] 72	701 [6202] 70	920 [8143] 69	1177 [10418] 67	1422 [12580] 65	1643 [14538] 64	1893 [16741] 58	74
	76 [20]		150 [1325] 81	409 [3616] 80	632 [5590] 79	801 [7091] 78	1100 [9733] 76	1505 [12135] 75	1599 [14148] 72	1859 [16454] 67	82
	83 [22]		99 [875] 89	336 [2977] 88	581 [5139] 87	837 [7403] 86	1056 [9342] 83	1305 [11553] 83	1561 [13816] 80	1799 [15755] 77	90
	91 [24]			282 [2497] 97	501 [4438] 96	766 [6778] 94	1021 [9038] 93	1266 [11201] 92	1489 [13179] 89	1752 [15507] 86	98
	95 [25]			241 [2137] 101	496 [4389] 100	722 [6390] 100	974 [8621] 97	1214 [10743] 96	1454 [12863] 93	1727 [15286] 89	102
114 [30]			66 [582] 122	300 [2652] 121	532 [4711] 120	781 [6914] 118	1044 [9235] 118	1271 [11248] 116		123	
Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐											
Theoretical Torque - Nm [lb-in]											
Rotor Width											
78.9 [3.106]		255 [2257] 510 [4514] 765 [6771] 1020 [9029] 1275 [11286] 1530 [13543] 1785 [15800] 2040 [18057] 2296 [20314] 2551 [22572]									
mm [in]											
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]											

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 10.03 for additional information on product testing.

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 10.03 for additional information on product testing.



DT (All Series)
For Heavy Duty Applications

DISPLACEMENT PERFORMANCE

Pressure - bar [psi]										Max. Cont.		Max. Inter.								
1K1										17 [250]	35 [500]	52 [750]	69 [1000]	86 [1250]	104 [1500]	121 [1750]	138 [2000]	155 [2250]	173 [2500]	
1047 cm³ [63.9 in³] / rev										Intermittent Ratings - 10% of Operation										
Torque - Nm [lb-in], Speed rpm																				
Flow - lpm [gpm]	2 [0.5]	217 [1918]	455 [4026]	671 [5940]	890 [7879]															2
	4 [1]	206 [1821]	498 [4410]	706 [6251]	935 [8273]	1189 [10518]														4
	8 [2]	224 [1985]	498 [4407]	754 [6672]	983 [8700]	1222 [10810]	1428 [12635]													8
	15 [4]	224 [1980]	472 [4180]	754 [6669]	1011 [8946]	1262 [11169]	1486 [13147]	1697 [15014]												15
	23 [6]	170 [1500]	487 [4314]	739 [6538]	1020 [9023]	1238 [10956]	1501 [13286]	1695 [14998]	1914 [16936]											22
	30 [8]	164 [1451]	431 [3814]	709 [6270]	970 [8580]	1241 [10986]	1481 [13106]	1727 [15280]	1942 [17185]	2144 [18971]										29
	38 [10]	129 [1143]	401 [3546]	675 [5975]	944 [8356]	1208 [10688]	1455 [12879]	1714 [15168]	1919 [16982]	2145 [18983]										37
	45 [12]	98 [871]	359 [3176]	624 [5526]	894 [7915]	1148 [10163]	1420 [12569]	1693 [14981]	1893 [16756]	2133 [18879]	2311 [20456]									44
	53 [14]	44 [390]	312 [2761]	580 [5129]	851 [7535]	1122 [9933]	1383 [12237]	1612 [14263]	1856 [16424]	2098 [18569]	2327 [20596]									51
	61 [16]		251 [2220]	516 [4569]	776 [6871]	1062 [9402]	1320 [11678]	1587 [14045]	1837 [16261]	2082 [18426]	2291 [20275]									58
Max. Max. Inter. Cont.	68 [18]		190 [1678]	458 [4053]	706 [6252]	1002 [8869]	1272 [11252]	1552 [13738]	1794 [15877]	2051 [18147]	2275 [20130]									66
	76 [20]		117 [1033]	390 [3453]	652 [5774]	930 [8227]	1187 [10502]	1596 [12874]	1723 [15246]	2001 [17705]	2228 [19716]									73
	83 [22]		50 [444]	310 [2741]	569 [5034]	847 [7493]	1113 [9846]	1380 [12214]	1650 [14589]	1927 [17055]	2138 [18924]									80
	91 [24]			210 [1862]	491 [4346]	755 [6677]	1018 [9007]	1288 [11398]	1557 [13777]	1827 [16164]	2101 [18591]									87
	95 [25]			185 [1635]	463 [4096]	710 [6281]	963 [8519]	1232 [10901]	1497 [13247]	1790 [15844]	2028 [17950]									91
	114 [30]				202 [1789]	477 [4217]	730 [6460]	1013 [8962]	1237 [10947]											109
Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐																				
Theoretical Torque - Nm [lb-in]																				
88.9 [3.502]										287 [2544] 575 [5088] 862 [7631] 1150 [10175] 1437 [12719] 1725 [15263] 2012 [17807] 2300 [20350] 2587 [22894] 2874 [25438]										
mm [in]																				
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]																				
Pressure - bar [psi]										Max. Cont.		Max. Inter.								
1K5										17 [250]	35 [500]	52 [750]	69 [1000]	86 [1250]	104 [1500]	121 [1750]				
1495 cm³ [91.2 in³] / rev										Intermittent Ratings - 10% of Operation										
Torque - Nm [lb-in], Speed rpm																				
Flow - lpm [gpm]	2 [0.5]	305 [2703]	648 [5736]																	2
	4 [1]	336 [2978]	693 [6128]																	3
	8 [2]	351 [3106]	729 [6454]																	6
	15 [4]	331 [2925]	712 [6304]																	11
	23 [6]	297 [2629]	681 [6023]																	16
	30 [8]	247 [2183]	640 [5662]																	21
	38 [10]	197 [1740]	583 [5159]																	26
	45 [12]	131 [1157]	531 [4695]																	31
	53 [14]	67 [594]	484 [4282]																	36
	61 [16]		391 [3457]																	41
Max. Max. Inter. Cont.	68 [18]		294 [2602]																	46
	76 [20]		182 [1607]																	51
	83 [22]		87 [770]																	56
	91 [24]																			61
	95 [25]																			64
	114 [30]																			76
Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐																				
Theoretical Torque - Nm [lb-in]																				
127.1 [5.003]										410 [3631] 821 [7261] 1231 [10892] 1641 [14522] 2051 [18153] 2462 [21783] 2872 [25414]										
mm [in]																				
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]																				

► Performance data is typical of production units varies by motor to another. See page information on product test

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 10.03 for additional information on product testing.

DT Series

Heavy Duty Hydraulic Motor



DT (All Series) For Heavy Duty Applications

DISPLACEMENT PERFORMANCE

		Pressure - bar [psi]					Max. Cont.	Max. Inter.
2K1		17 [250]	35 [500]	52 [750]	69 [1000]	86 [1250]	104 [1500]	121 [1750]
2094 cm ³ [127.7 in ³] / rev		Intermittent Ratings - 10% of Operation						
Flow - lpm [gpm]		Torque - Nm [lb-in]		Speed rpm				Theoretical rpm
2 [0.5]		438 [3878] 0.8	892 [7894] 0.8					1
4 [1]		440 [3891] 1	922 [8162] 1	1398 [12375] 1				2
8 [2]		460 [4073] 3	956 [8458] 3	1460 [12923] 3				4
15 [4]		443 [3920] 7	963 [8525] 7	1491 [13192] 6	1980 [17520] 6			8
23 [6]		402 [3560] 10	924 [8179] 10	1470 [13012] 10	1963 [17370] 9			11
30 [8]		337 [2985] 14	884 [7824] 14	1425 [12613] 14	1920 [16995] 13	2390 [21152] 9	2668 [23613] 8	15
38 [10]		275 [2431] 17	814 [7205] 17	1350 [11944] 16	1869 [16538] 16	2343 [20733] 13	2663 [23564] 9	19
45 [12]		173 [1535] 21	723 [6398] 21	1262 [11171] 21	1795 [15886] 20	2286 [20232] 17	2665 [23588] 12	22
53 [14]		66 [587] 25	619 [5479] 24	1155 [10221] 24	1702 [15063] 23	2206 [19519] 21	2637 [23333] 13	26
61 [16]			496 [4391] 28	1018 [9009] 28	1587 [14046] 27	2107 [18645] 26	2574 [22777] 20	29
68 [18]			368 [3257] 32	910 [8052] 32	1466 [12973] 31	1980 [17527] 30	2471 [21866] 26	33
76 [20]			225 [1991] 36	755 [6686] 36	1304 [11537] 36	1859 [16449] 35	2359 [20878] 30	37
83 [22]			71 [628] 39	622 [5507] 39	1171 [10367] 39	1682 [14885] 38	2212 [19575] 36	40
91 [24]				429 [3794] 43	984 [8704] 43	1544 [13665] 42	2067 [18291] 40	44
95 [25]				354 [3129] 45	891 [7883] 45	1428 [12636] 45	1971 [17445] 43	46
114 [30]					430 [3803] 54	959 [8485] 54	1492 [13207] 53	55
Max. Max. Inter. Cont.		Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☒						
Rotor Width		Theoretical Torque - Nm [lb-in]						
177.9 [7.003] mm [in]		574 [5084]	1149 [10167]	1723 [15251]	2298 [20334]	2872 [25418]	3447 [30502]	4021 [35585]
		Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]						

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 10.03 for additional information on product testing.

DT Series

Heavy Duty Hydraulic Motor



DT (All Series) For Heavy Duty Applications

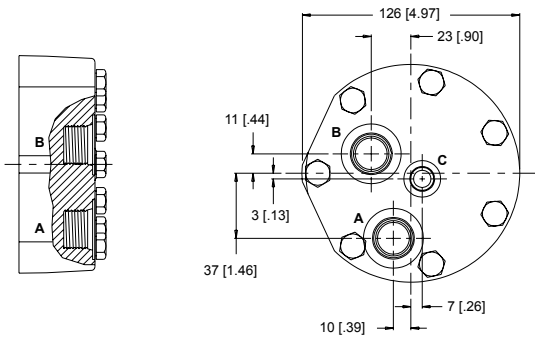
PORTING

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

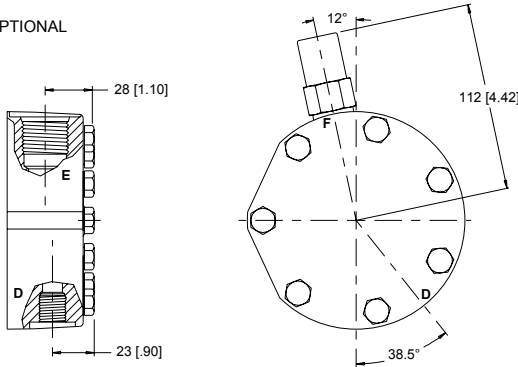
END PORTED - OFFSET

- 1
- Main Ports **A, B:** 7/8-14 UNF
Drain Port **C:** 7/16-20 UNF

STANDARD



OPTIONAL

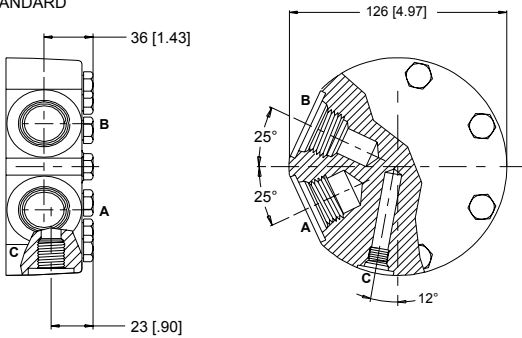


D: Internal Drain E: 10 Series/2-Way Valve Cavity 7/8-14 UNF F: Valve Cartridge Installed

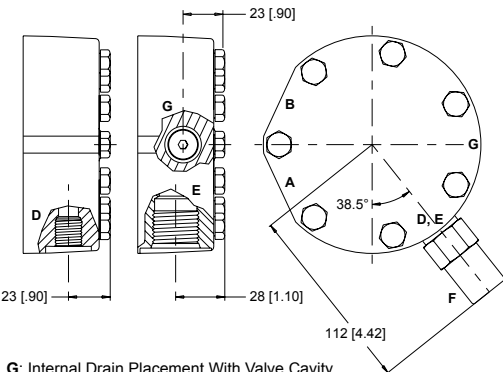
SIDE PORTED - RADIAL

- 2
- Main Ports **A, B:** G 3/4
Drain Port **C:** G 1/4

STANDARD



OPTIONAL



D: Internal Drain E: 10 Series/2-Way Valve Cavity 7/8-14 UNF F: Valve Cartridge Installed G: Internal Drain Placement With Valve Cavity

DT Series

Heavy Duty Hydraulic Motor



DT (All Series) For Heavy Duty Applications

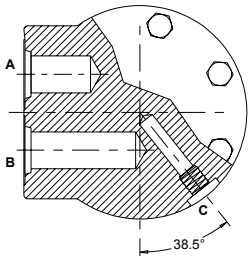
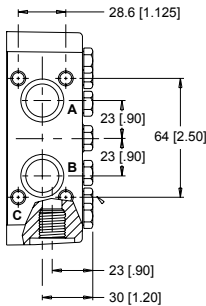
PORTING

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

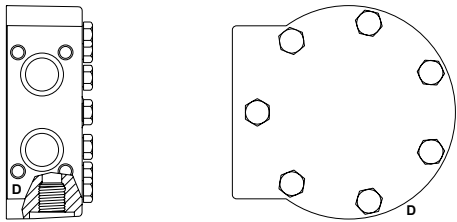
SIDE PORTED - MANIFOLD ALIGNED

- 3
- Main Ports **A, B:** 11/16" Drilled
Drain Port **C:** 7/16-20 UNF

STANDARD



OPTIONAL



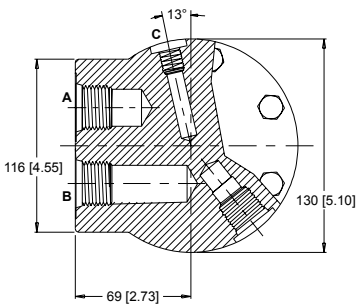
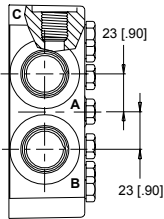
D: Internal Drain

SIDE PORTED - ALIGNED

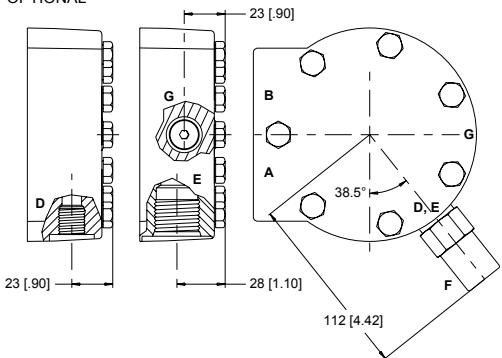
- 6
- Main Ports **A, B:** 1 1/16-20 UN
Drain Port **C:** 7/16-20 UNF

- 7
- Main Ports **A, B:** G 3/4
Drain Port **C:** G 1/4

STANDARD



OPTIONAL



D: Internal Drain E: 10 Series/2-Way Valve Cavity 7/8-14 UNF F: Valve Cartridge Installed G: Internal Drain Placement With Valve Cavity

DT Series

Heavy Duty Hydraulic Motor



DT (700 Series) Hydraulic Motor

HOUSINGS

4-HOLE, SAE C MOUNT

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

C2

End Ports

C8

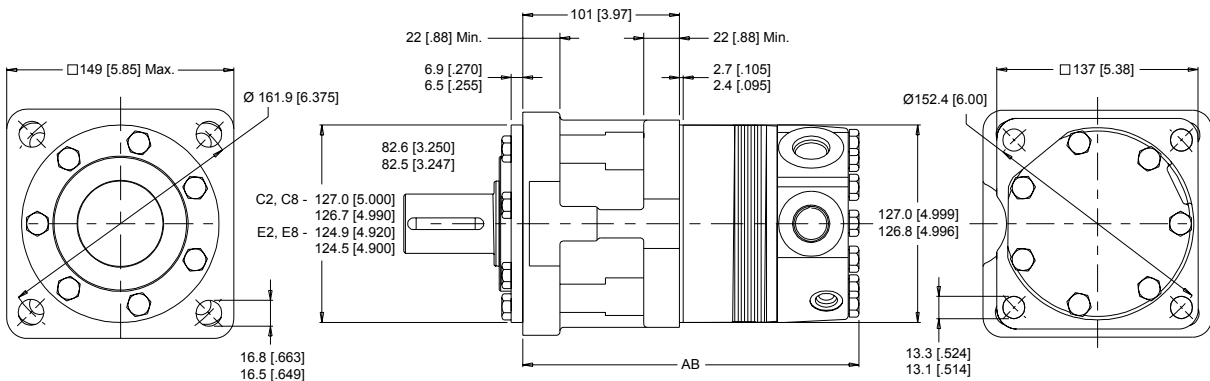
Side Ports

E2

End Ports

E8

Side Ports



► Porting options listed on pages 10.157 - 10.158.

TECHNICAL INFORMATION

ALLOWABLE SHAFT LOAD / BEARING CURVE

The bearing curve represents allowable bearing loads based on ISO 281 bearing capacity for an L_{10} life of 2,000 hours at 100 rpm. Radial loads for speeds other than 100 rpm may be calculated using the multiplication factor table on page 10.04.

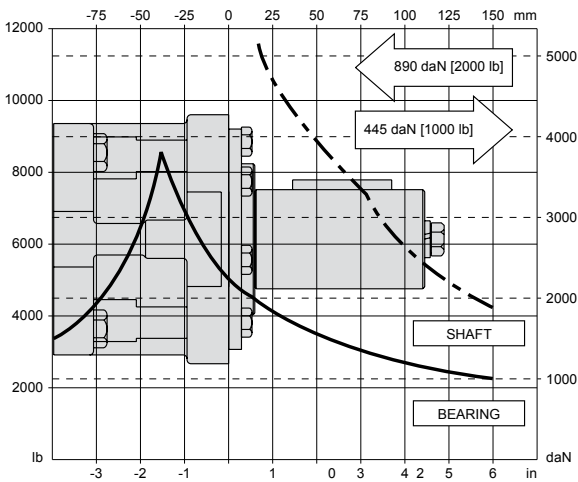
LENGTH & WEIGHT CHART

Dimension AB is the overall motor length from the rear of the motor to the mounting surface.

AB	Endcovers on pg. 217	Endcovers on pg. 218	Weight
#	mm [in]	mm [in]	kg [lb]
300	206 [8.14]	209 [8.25]	20.2 [44.6]
375	213 [8.39]	216 [8.50]	20.8 [45.8]
470	220 [8.69]	223 [8.80]	21.4 [47.1]
540	227 [8.93]	230 [9.04]	21.9 [48.2]
750	245 [9.64]	248 [9.75]	23.3 [51.3]
930	260 [10.24]	263 [10.35]	24.4 [53.8]
1K1	270 [10.64]	273 [10.75]	25.3 [55.7]
1K5	308 [12.14]	311 [12.25]	28.3 [62.5]
2K1	359 [14.14]	362 [14.25]	32.3 [71.3]

► All DT series motor weights can vary ± 1.4 kg [3 lb] depending on model configurations such as housing, shaft, endcover, options etc.

SAE C MOUNTS



DT (700 Series) Hydraulic Motor

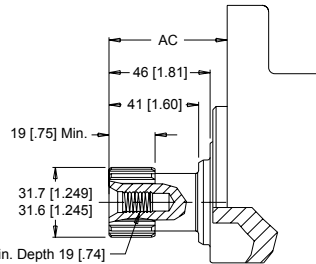
SHAFTS

09 14 Tooth Spline Extended

14 tooth 12/24 Pitch
Std. ANSI B92.1-1996 Spline

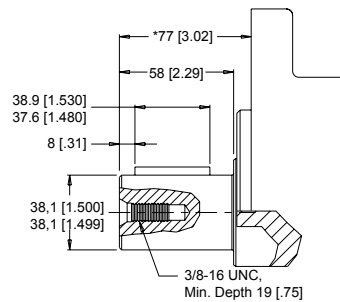
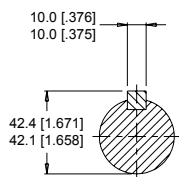


23 14 Tooth Spline



Max. Torque: 2070 Nm [18400 lb-in]

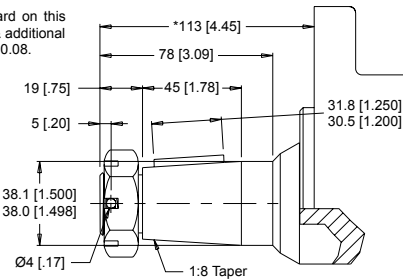
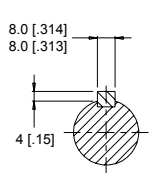
30 1-1/2" Straight



Max. Torque: 2230 Nm [19800 lb-in]

31 1-1/2" Tapered

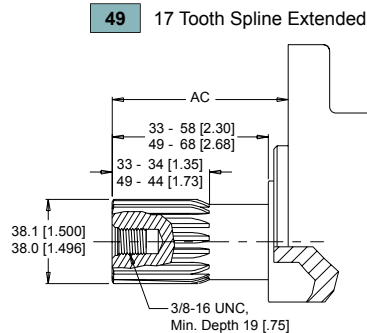
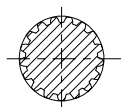
▶ A slotted hex nut is standard on this shaft. Dimensional details & additional options are listed on page 10.08.



Max. Torque: 2250 Nm [19900 lb-in]

33 17 Tooth Spline

17 tooth 12/24 Pitch
SAE Std. Spline

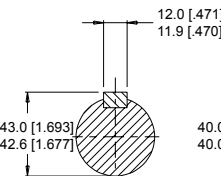


Max. Torque: 2250 Nm [19900 lb-in]

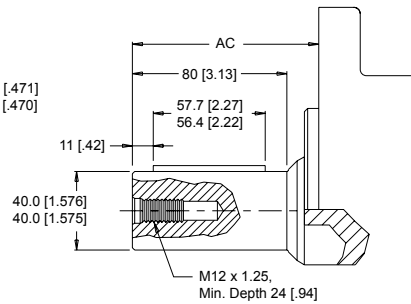
▶ Dimension AC is charted on page 10.161.

49 17 Tooth Spline Extended

36 40mm Straight

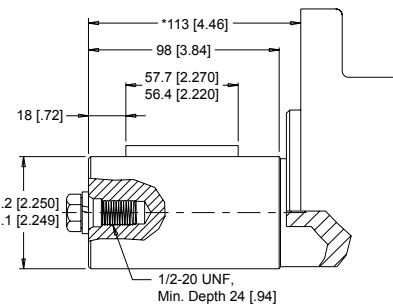
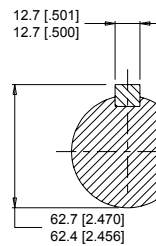


54 40mm Straight Extended



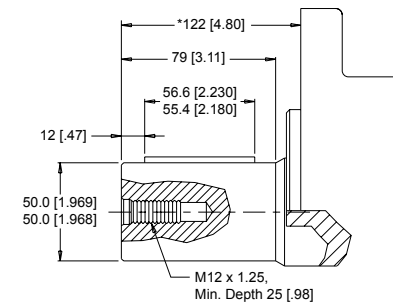
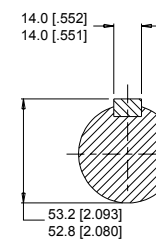
Max. Torque: 2700 Nm [24000 lb-in]

40 2-1/4" Straight



Max. Torque: 2700 Nm [24000 lb-in]

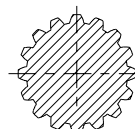
41 50mm Straight



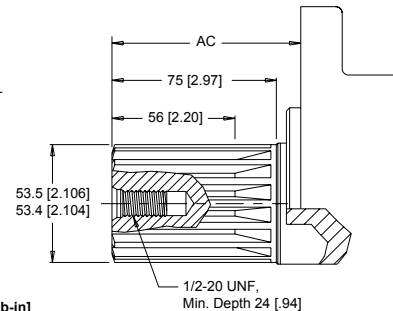
Max. Torque: 2700 Nm [24000 lb-in]

42 16 Tooth Spline

16 tooth 8/16 Pitch
Std. ANSI B92.1-1996 Spline -
Deviates From Standard



48 16 Tooth Spline Extended

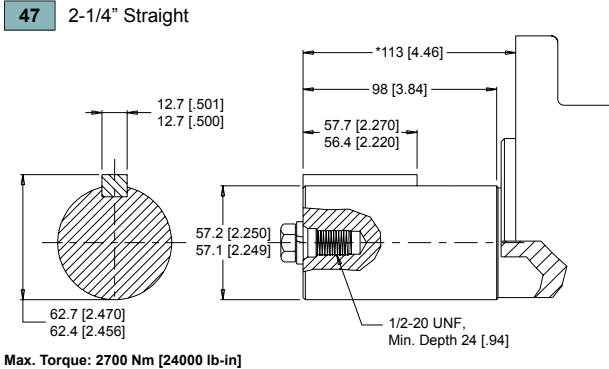
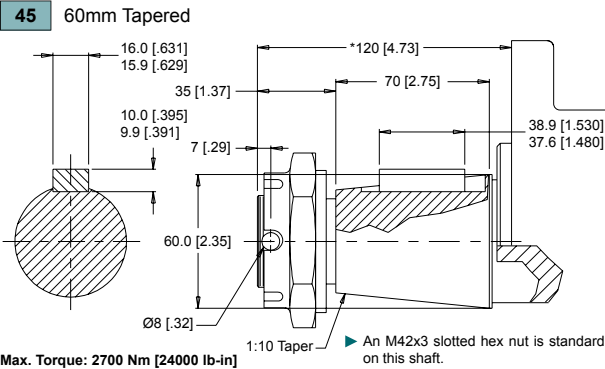


Max. Torque: 2700 Nm [24000 lb-in]



DT (700 Series)
Hydraulic Motor

SHAFTS



MOUNTING / SHAFT LENGTH CHART

Dimension AC is the overall distance from the motor mounting surface to the end of the shaft and is referenced on detailed shaft drawings on page 10.160.

► Shaft lengths vary ± 0.8 mm [0.030 in.]

AC	Length	AC	Length
#	mm [in]	#	mm [in]
09	86 [3.38]	42	91 [3.57]
23	56 [2.19]	48	121 [4.77]
33	68 [2.69]	49	99 [3.89]
36	113 [4.45]	54	121 [4.78]

DT Series

Heavy Duty Hydraulic Motor



DT (700 Series)

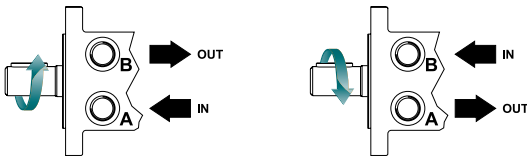
Hydraulic Motor

ORDERING INFORMATION

1			2		3a		

1. CHOOSE SERIES DESIGNATION

700 Standard Motor



► The 700 series is bi-directional. Reversing the inlet hose will reverse shaft rotation.

2. SELECT A DISPLACEMENT OPTION

300	300 cm ³ /rev [18.3 in ³ /rev]	930	929 cm ³ /rev [56.7 in ³ /rev]
375	374 cm ³ /rev [22.8 in ³ /rev]	1K1	1047 cm ³ /rev [63.9 in ³ /rev]
470	464 cm ³ /rev [28.3 in ³ /rev]	1K5	1495 cm ³ /rev [91.2 in ³ /rev]
540	536 cm ³ /rev [32.7 in ³ /rev]	2K1	2093 cm ³ /rev [127.7 in ³ /rev]
750	747 cm ³ /rev [45.6 in ³ /rev]		

3a. SELECT MOUNT TYPE

▼ END MOUNTS

C2	SAE C Mount (5" Pilot)
E2	SAE C Mount (125mm Pilot)

▼ SIDE MOUNTS

C8	SAE C Mount (5" Pilot)
E8	SAE C Mount (125mm Pilot)

3b. SELECT PORT SIZE

▼ END PORT OPTIONS

1	7/8-14 UNF Offset
----------	-------------------

▼ SIDE PORT OPTIONS

2	G 3/4, Radial
3	1 1/16" Hole, Aligned Manifold
5	1 1/16-20 UN, Radial
6	1 1/16-20 UN, Aligned
7	G 3/4, Radial

4. SELECT A SHAFT OPTION

09	14 Tooth Spline Extended	41	50mm Straight
23	14 Tooth Spline	42	16 Tooth Spline
30	1-1/2" Straight	45	60mm Tapered
31	1-1/2" Tapered	47	2-1/4" Straight
33	17 Tooth Spline	48	16 Tooth Spline Extended
36	40mm Straight	49	17 Tooth Spline Extended
40	2-1/4" Straight	54	40mm Straight Extended

► The #47 and extended shafts are designed for use with one of the speed sensor options listed in STEP 7.

3b	4	5	6	7	8		

5. SELECT A PAINT OPTION

A	Black
B	Black, Unpainted Mounting Surface
Z	No Paint

6. SELECT A VALVE CAVITY / CARTRIDGE OPTION

A	None	F	121 bar [1750 psi] Relief
B	Valve Cavity Only	G	138 bar [2000 psi] Relief
C	69 bar [1000 psi] Relief	J	173 bar [2500 psi] Relief
D	86 bar [1250 psi] Relief	L	207 bar [3000 psi] Relief
E	104 bar [1500 psi] Relief		

► Valve cavity is not available on port option 3.

7. SELECT AN ADD-ON OPTION

A	Standard
B	Lock Nut
C	Solid Hex Nut
W	Speed Sensor, Dual, 4-Pin Male Weatherpack Connector
X	Speed Sensor, Dual, 4-Pin M12 Male Connector
Y	Speed Sensor, Single, 3-Pin Male Weatherpack Connector
Z	Speed Sensor, Single, 4-Pin M12 Male Connector

8. SELECT A MISCELLANEOUS OPTION

AA	None
AB	Internal Drain
AC	Freeturning Rotor
AD	Internal Drain & Freeturning Rotor

Heavy Duty Hydraulic Motor

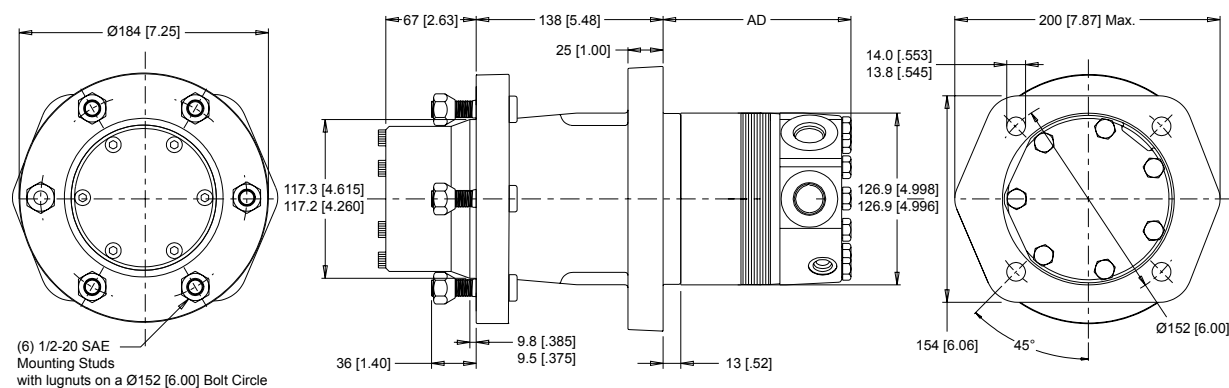


HOUSINGS

4-HOLE, WHEEL HUB MOUNT

W2 End Ports

W8 Side Ports



TECHNICAL INFORMATION

ALLOWABLE SHAFT LOAD / BEARING CURVE

The bearing curve represents allowable bearing loads based on ISO 281 bearing capacity for an L_{10} life of 2,000 hours at 100 rpm. Radial loads for speeds other than 100 rpm may be calculated using the multiplication factor table on page 10.04.

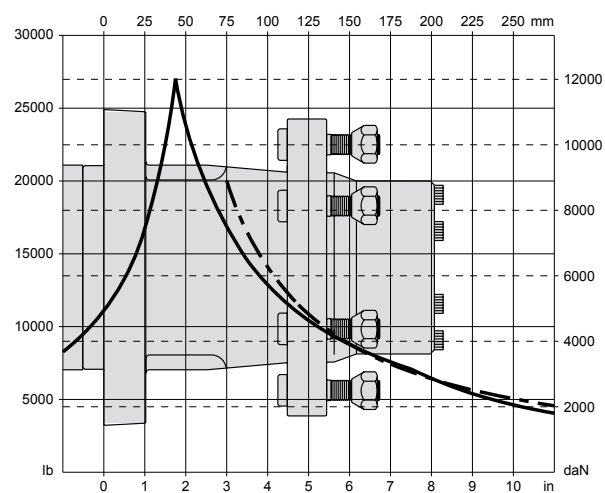
LENGTH & WEIGHT CHART

Dimension AD is the overall motor length from the rear of the motor to the mounting surface.

AD	Endcovers on p. 217	Endcovers on p. 218	Weight
#	mm [in.]	mm [in.]	kg [lb]
300	117 [4.63]	120 [4.74]	28.4 [62.6]
375	124 [4.88]	127 [4.99]	28.9 [63.8]
470	131 [5.18]	134 [5.29]	29.5 [65.1]
540	137 [5.42]	140 [5.53]	30.1 [66.2]
750	155 [6.13]	158 [6.24]	31.0 [69.2]
930	171 [6.73]	174 [6.84]	32.6 [71.8]
1K1	181 [7.13]	184 [7.24]	33.4 [73.7]
1K5	219 [8.63]	222 [8.74]	36.5 [80.5]
2K1	270 [10.63]	273 [10.74]	40.5 [89.3]

► All DT series motor weights can vary ± 1.4 kg [3 lb] depending on model configurations such as housing, shaft, endcover, options etc.

WHEEL HUB MOUNTS



DT Series

Heavy Duty Hydraulic Motor



DT (740 Series) Hydraulic Motor With Wheel Hub

ORDERING INFORMATION

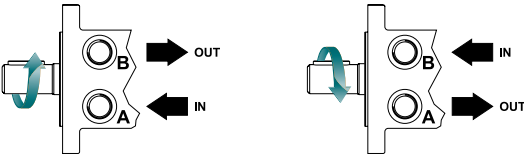
1

2

3a

1. CHOOSE SERIES DESIGNATION

740 Hydraulic Motor With Wheel Hub



► The 740 series is bi-directional. Reversing the inlet hose will reverse shaft rotation.

2. SELECT A DISPLACEMENT OPTION

300	300 cm ³ /rev [18.3 in ³ /rev]	930	929 cm ³ /rev [56.7 in ³ /rev]
375	374 cm ³ /rev [22.8 in ³ /rev]	1K1	1047 cm ³ /rev [63.9 in ³ /rev]
470	464 cm ³ /rev [28.3 in ³ /rev]	1K5	1495 cm ³ /rev [91.2 in ³ /rev]
540	536 cm ³ /rev [32.7 in ³ /rev]	2K1	2093 cm ³ /rev [127.7 in ³ /rev]
750	747 cm ³ /rev [45.6 in ³ /rev]		

3a. SELECT MOUNT TYPE

- ▼ END MOUNTS
- W2** Wheel Hub Mount
- ▼ SIDE MOUNTS
- W8** Wheel Hub Mount

3b. SELECT PORT SIZE

- ▼ END PORT OPTIONS
- 1** 7/8-14 UNF Offset
- ▼ SIDE PORT OPTIONS
- 2** G 3/4, Radial
- 5** 1 1/16-20 UN, Radial

3b

4

5

6

7

8

4. SELECT A SHAFT OPTION

61 6-Bolt Wheel Flange

5. SELECT A PAINT OPTION

- A** Black
- Z** No Paint

6. SELECT A VALVE CAVITY / CARTRIDGE OPTION

A	None	F	121 bar [1750 psi] Relief
B	Valve Cavity Only	G	138 bar [2000 psi] Relief
C	69 bar [1000 psi] Relief	J	173 bar [2500 psi] Relief
D	86 bar [1250 psi] Relief	L	207 bar [3000 psi] Relief
E	104 bar [1500 psi] Relief		

7. SELECT AN ADD-ON OPTION

A Standard

8. SELECT A MISCELLANEOUS OPTION

- AA** None
- AC** Freeturning Rotor

DT Series

Heavy Duty Hydraulic Motor



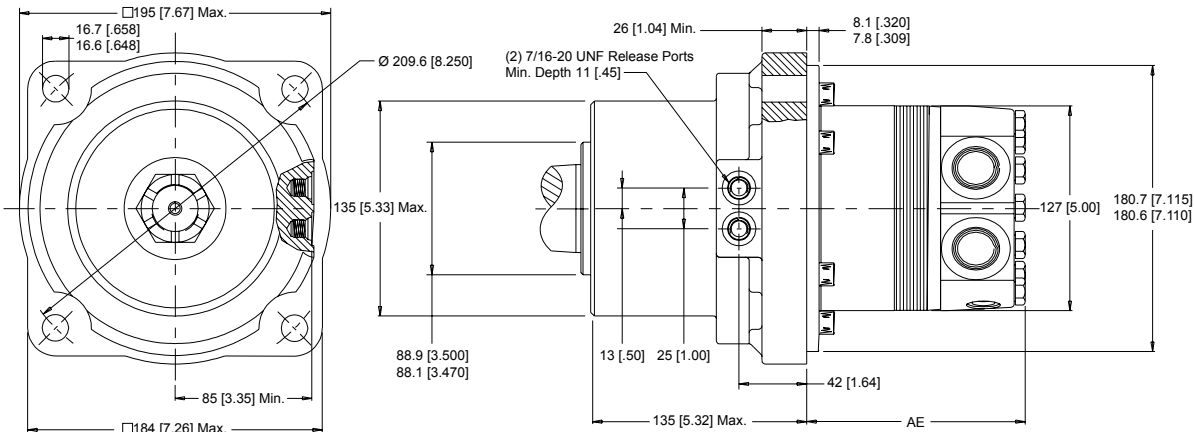
DT (710 Series) Hydraulic Motor With Integral Spring Applied, Hydraulic Released Brake

HOUSINGS

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

4-HOLE, WHEEL BRAKE MOUNT

W2 End Ports **W8** Side Ports



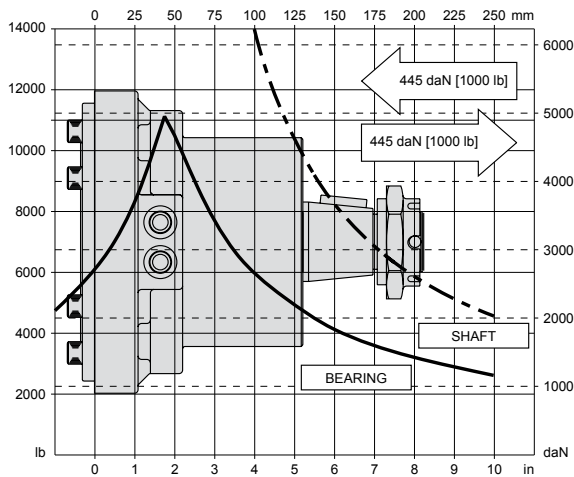
► Porting options listed on pages 10.157 - 10.158.

TECHNICAL INFORMATION

ALLOWABLE SHAFT LOAD / BEARING CURVE

The bearing curve represents allowable bearing loads based on ISO 281 bearing capacity for an L_{10} life of 2,000 hours at 100 rpm. Radial loads for speeds other than 100 rpm may be calculated using the multiplication factor table on page 10.04.

WHEEL BRAKE MOUNTS



SPECIFICATIONS

Rated brake torque..... 1582 Nm [14000 lb-in]
Initial release pressure19 bar [275 psi]
Full release pressure33 bar [475 psi]
Maximum release pressure207 bar [3000 psi]
Release volume..... 13-16 cm³ [0.8 - 1.0 in³]

► The DT 710 series motor/brakes are available with different holding torque specifications. For additional information please contact Cross Hydraulics Customer Service & Technical Support or your local Cross distributor.

LENGTH & WEIGHT CHART

Dimension AE is the overall motor length from the rear of the motor to the mounting surface.

AE	Endcovers on pg. 217	Endcovers on pg. 218	Weight
#	mm [in]	mm [in]	kg [lb]
300	112 [4.43]	115 [4.54]	27.2 [60.0]
375	119 [4.68]	122 [4.79]	27.8 [61.2]
470	126 [4.98]	129 [5.09]	28.3 [62.5]
540	132 [5.22]	135 [5.33]	28.8 [63.6]
750	150 [5.93]	153 [6.04]	30.3 [66.7]
930	166 [6.53]	169 [6.64]	31.4 [69.2]
1K1	176 [6.93]	179 [7.04]	32.2 [71.1]
1K5	214 [8.43]	217 [8.54]	35.3 [77.9]
2K1	265 [10.43]	268 [10.54]	39.3 [86.7]

► All DT series motor weights can vary ± 1.4 kg [3 lb] depending on model configurations such as housing, shaft, endcover, options etc.

DT Series

Heavy Duty Hydraulic Motor

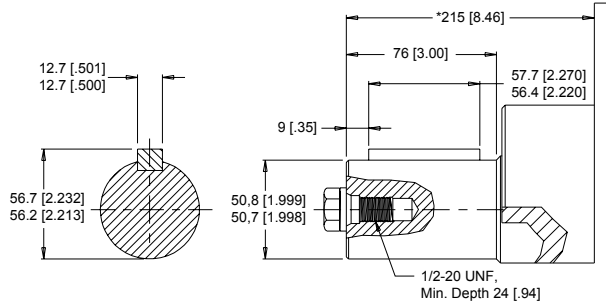


DT (710 Series)

Hydraulic Motor With Integral Spring Applied, Hydraulic Released Brake

SHAFTS

50 2" Straight

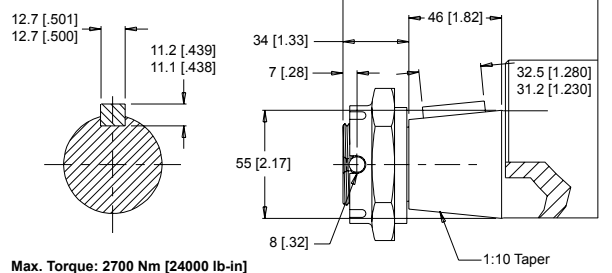


Max. Torque: 2700 Nm [24000 lb-in]

► Shaft lengths vary ± 0.8 mm [.030 in.]

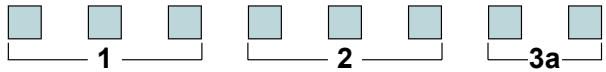
51 55mm Tapered

► An M42x3 slotted hex nut is standard on this shaft.



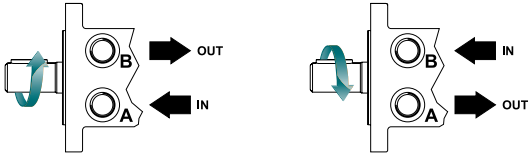
Max. Torque: 2700 Nm [24000 lb-in]

ORDERING INFORMATION



1. CHOOSE SERIES DESIGNATION

710 Hydraulic Motor With Integral Brake



► The 710 series is bi-directional. Reversing the inlet hose will reverse shaft rotation.

2. SELECT A DISPLACEMENT OPTION

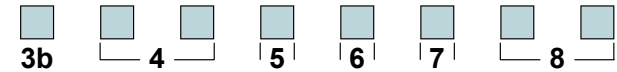
300	300 cm ³ /rev [18.3 in ³ /rev]	930	929 cm ³ /rev [56.7 in ³ /rev]
375	374 cm ³ /rev [22.8 in ³ /rev]	1K1	1047 cm ³ /rev [63.9 in ³ /rev]
470	464 cm ³ /rev [28.3 in ³ /rev]	1K5	1495 cm ³ /rev [91.2 in ³ /rev]
540	536 cm ³ /rev [32.7 in ³ /rev]	2K1	2093 cm ³ /rev [127.7 in ³ /rev]
750	747 cm ³ /rev [45.6 in ³ /rev]		

3a. SELECT MOUNT TYPE

- ▼ END MOUNTS
- W2** Wheel Brake Mount
- ▼ SIDE MOUNTS
- W8** Wheel Brake Mount

3b. SELECT PORT SIZE

- ▼ END PORT OPTIONS
- 1** 7/8-14 UNF Offset
- ▼ SIDE PORT OPTIONS
- 2** G 3/4, Radial
- 3** 1 1/16" Hole, Aligned Manifold
- 5** 1 1/16-20 UN, Radial
- 6** 1 1/16-20 UN, Aligned
- 7** G 3/4, Radial



4. SELECT A SHAFT OPTION

50 2" Straight **51** 55mm Tapered

5. SELECT A PAINT OPTION

- A** Black
- Z** No Paint

6. SELECT A VALVE CAVITY / CARTRIDGE OPTION

A	None	F	121 bar [1750 psi] Relief
B	Valve Cavity Only	G	138 bar [2000 psi] Relief
C	69 bar [1000 psi] Relief	J	173 bar [2500 psi] Relief
D	86 bar [1250 psi] Relief	L	207 bar [3000 psi] Relief
E	104 bar [1500 psi] Relief		

► Valve cavity is not available on port option 3.

7. SELECT AN ADD-ON OPTION

- A** Standard

8. SELECT A MISCELLANEOUS OPTION

- AA** None
- AC** Freeturning Rotor