

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 driveline lubrication for maximum motor life. Standard mounting and shaft options offer interchangeability with competitive designs. An internal drain option is also available.

FEATURES

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



SPECIFICATIONS

Displacer (in ³ /re			Max. Flow 1)Cont	```	-		essure (2)Inter.	,
Code	Max. Spee 1)Cont	ed (RPM) 2)Inter.	-		Max. Torque (lb-in) 1)Cont 2)Inter.			
	1	2	1	2	1 2	1	2	3
300 18.3	320	380	25	30	7250 8450	3000	3500	3750
375 22.8	250	300	25	30	9250 9975	3000	3250	3500
470 28.3	200	240	25	30	9475 12300	2500	3250	3500
540 32.7	180	210	25	30	11300 13500	2500	3000	3500
750 45.6	130	150	25	30	15750 18500	2500	3000	3500
930 56.7	100	120	25	30	15750 18950	2000	2500	3000
1K1 63.9	90	110	25	30	16950 20500	2000	2500	3000
1K5 91.2	60	70	25	30	18500 20500	1500	1750	2000
2K1 127.7	40	50	25	30	23550 29580	1500	1750	2000



300 18.3 in³/rev

		Press		psi (bar		1			Max. Cont.	Inte			_
Flow GPM	/ I (LPM)	250 (17)	500 (35)	1000 (69)	1500 (104)	2000 (138)	2500 (173)	3000 (207)	3500 (242)	The RP	
0	.5 (2)	476 (4	54) ′	1014 (115) 3	2100 (237) 2							7	
		415 (2256 (255)	3363 (380)							
<u> </u>	1 (4)	11 435 (9 1057 (119)	7 2278 (257)	5 3628 (410)	3 4801 (543)	5942 (671)	6983 (789)	7959 ((899)	1:	3
	2 (8)	24		23	21 2336 (264)	19 3616 (409)	15 4904 (554)	12 6202 (701)	9 7424 (839)	7 8595 (971)	20	3
	4 (15)	50		49	46	43	37	32	28	26		5	1
	6 (23)		-	1025 (116) 75	2462 (278) 69	3719 (420) 65	5019 (567) 58	6297 (712) 54	7554 (854) 51	8701 (48		76	6
	8 (30)			929 (105) 100	2222 (251) 97	3506 (396) 93	4793 (542) 86	6122 (692) 78	7353 (831) 70	8621 (69		10	1
				877 (99)	2099 (237)	3438 (388)	4857 (549)	6081 (687)	7369 (833)	8588 (970)		
10	0 (38)			126 762 (86)	122 2094 (237)	115 3342 (378)	113 4666 (527)	107 5893 (666)	96 7281 (823)	90 8523 (12	7
12	2 (45)		_	151 679 (77)	150	140 3191 (361)	135	129 5802 (656)	119 7121 (805)	11: 8420 (15	2
14	4 (53)			176	175	172	164	156	151	14	0	17	7
10	6 (61)			528 (60) 201	1845 (208) 200	3179 (359) 189	4378 (495) 185	5731 (648) 178	6999 (791) 172	8213(16		20	2
					1694 (191)	2961 (335)	4402 (497)	5592 (632)	6871 (776)	8093 (914)		
	8 (68)		-+		225 1489 (168)	222 2835 (320)	211 4083 (461)	206 5401 (610)	196 6762 (764)	18 7934 (22	8
20	20 (76)		-		251 1298 (147)	247 2675 (302)	240 3926 (444)	233 5205 (588)	228 6570 (742)	21 7810 (25	3
22	2 (83)		_		276	272	269	258	249	23	4	27	8
24	4 (91)				1086 (123) 300	2409 (272) 298	3666 (414) 296	4934 (558) 290	6264 (708) 281	7535 (27 2		30	3
2	25 (95)				958 (108) 315	2278 (257) 313	3482 (393) 308	4857 (549) 300	6139 (694) 289	7421 (28		31	6
	.5 (33)		-		315		2945 (333)		209	20	0	51	-
	10 (114)		82)	1457 (165)	2914 (329)	376 4371 (494)	372 5828 (659)	7285 (823)	8742 (988)	10199 (1152)	37	
		³ /rev						7285 (823)					
30 Tr 75 22 Flow	heo. Torqu 2.8 in ³		sure	psi (ba		4371 (494)			Max. C	cont.	<u>Inter.</u> 3250 (22		Theo
30 Tr 75 22 Flow	heo. Torqu	³ /rev	sure (17)	psi (ba	irs) [1000 (69)	4371 (494)	5828 (659) 5828 (659)		Max. C	cont.	Inter.		Theo
75 22 Flow	heo. Torqu 2.8 in ³	³ /rev 250 (574 ((17)	psi (ba 500 (35) 1272 (144 3	irs) 1000 (69) 2670 (302 2	4371 (494) 1500 (104) 3970 (449 1	5828 (659))) 2000 (138)2500 (173	Max. C	cont.	Inter.		Theo
22 Flow <u>GPM</u>	2.8 in ³	³ /rev 250 (574 (583 (583 ((17) (65)	psi (ba 500 (35) 1272 (144 3 1345 (152 8	ars) 1000 (69) 2670 (302 2 2757 (312 7	4371 (494) 1500 (104) 3970 (449 1) 4208 (475 5	5828 (659)) 2000 (138)) 5535 (625 4)2500 (173	Max. C	cont. 207)	Inter. 3250 (22	24)	Theo
5 22 Flow GPM	heo. Torqu 2.8 in ³ (1 (LPM) .5 (2)	³ /rev 250 (574 (583 (596 (1)	65) (65) (66) (67) 9	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18	rs) 1000 (69)) 2670 (302 2 2 2757 (312 7) 2907 (322 17	4371 (494) 1500 (104) 3970 (449 1) 4208 (475 5 1 4388 (496 14 14 15 15 15 15 15 15 15 15 15 15	5828 (659)) 2000 (138)) 5535 (625 4) 5695 (644 12) 2500 (173)) 7122 (805 10	Max. C) 3000 () 8524 (8	Sont. 207) 963)	Inter. 3250 (22 9288 (10 7	24)	Thee RPN 6
75 22 Flow GPM	2.8 in ³ (1(LPM) (5 (2) (1 (4) (2 (8)	³ /rev <u>Press</u> <u>250</u> <u>574</u> <u>4</u> <u>583</u> <u>596</u> <u>1</u> <u>627</u> (65) (65) (66) (667) (71)	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18 1400 (158	rs) 1000 (69) 2670 (302 2 2757 (312 7) 2907 (325 17) 2982 (337	4371 (494) 1500 (104) 3970 (449 1) 4208 (475 5 1) 4388 (496 14) 4536 (513)	5828 (659) 2000 (138 5535 (625 4 5695 (644 12 6020 (680	2500 (173) 7122 (805 10 7596 (858	Max. C) 3000 () 8524 (8) 8962 (Sont. 207) 963) 1013)	Inter. 3250 (22 9288 (10 7 9723 (10	24)	Theor RPM 6 11 21
5 22 Flow 6 1	2.8 in ³ (LLPM) (5 (2) 1 (4) 2 (8) 4 (15)	³ /rev 250 (574 (4 596 (1) 627 (4 570 (65) (17) (65) (66) (71) (71) (64)	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1400 (158 39 1334 (151	rs) 1000 (69) 2670 (302 2 7 7 2907 (325 17) 2982 (337 37) 2969 (336	4371 (494) 1500 (104) 3970 (449) 4208 (475 5 5) 4388 (496 14) 4538 (513 34 4598 (520	5828 (659) 5828 (659)) 2000 (138) 30 > 5535 (602) 6641 (602) 6141 (694) 6141	2500 (173 7122 (805 10 7596 (858 27 7704 (871	Max. C) 3000 () 8524 (8) 8962 (25) 9275 (207) 963) 1013) 1048)	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11	24)	Thee RPM 6 11 21 41
5 22 Flow 6 1	2.8 in ³ (1(LPM) (5 (2) (1 (4) (2 (8)	³ /rev 250 d 574 d 583 d 596 d 11 627 d 4	sure (17) (65) (66) (66) (71) (71) 0 (64) 0	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18 1400 (158 39 1334 (151 60	ars) 1000 (69)) 2670 (20 2757 (312 7) 2907 (325 17) 2982 (337 37) 2989 (336 58	4371 (494) 4371 (494) 1500 (104) 3970 (449 1) 4208 (475 5) 4388 (496 14) 4536 (513 34	5828 (659)) 2000 (138)) 5535 (625 4) 5695 (644 12) 6020 (680 30) 6141 (694 49	2500 (173) 7122 (805) 10 7596 (858) 27 7704 (871) 45	Max. C) 3000 () 8524 (8962 (25) 9275 (963) 1013) 1048)	Inter. 3250 (22 9288 (10 7 9723 (10 23	24) 050) 099) 115)	Theor RPM 6 11 21
5 22 Flow GPM	2.8 in ³ (LLPM) (5 (2) 1 (4) 2 (8) 4 (15)	3/rev 250 574 4 586 1 627 4 570 6 6	5000 500 5000 5	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18 1400 (158 39 1334 (151 60 1337 (151 80	ars) 1000 (69) 2670 (302 2 7 7 2907 (325 17) 2907 (325 17) 2969 (336 58) 2876 (325 78 78 78 78 78 78 78 78 78 78	4371 (494) 4371 (494) 1500 (104) 3970 (449 1) 4208 (475 5) 4388 (496 14) 4538 (513 34) 4538 (520 54) 4532 (512 73	5828 (659) 5828 (659) 2000 (138) 2000 5535 4 1 2020 (680) 30 6020 2020 (680) 30 6141 693 6143 6913 693	2500 (173 7122 (805 10 7596 (858 27 7704 (871 63 7724 (873 63	Max. C) 3000 (8524 (8962 (25) 9275 (41) 9304 (60	Sont. 207) 963) 1013) 1048) 1051)	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 41 9964 (11 59	24))50))99) (15) (26)	Theorem 11 21 41
5 2.	2.8 <i>in</i> ³ 1 (LPM) <u>5</u> (2) <u>1</u> (4) <u>2</u> (8) <u>4</u> (15) <u>6</u> (23)	³ /rev 250 574 4 589 596 12 596 12 596 4 570 627 4 570 647 6	5000 500 5000 5	psi (ba 500 (35) 1272 (144 1345 (152 1345 (154 1400 (158 39 1334 (151 60 1337 (151 80 1161 (131 101	Ins) 1000 (69) 1000 (69) 27 (302 27 (312 7 1 2907 (322 7 1 2907 (322 7 1 2908 (337 37 1 2908 (336 58 1 2876 (325 78 1 2968 (313 99	4371 (494) 4371 (494) 1500 (104) 3970 (449 1 4208 (475 5) 4388 (496 14) 4536 (513 34) 4538 (520 54) 4532 (512 73) 4439 (502 95	5828 (659) 5828 (659) 2000 (138 5535 (625 4 5695 (644 12 6020 (680 30 6141 (694 49 6113 (691 69 1695 (686 89	2500 (173) 7122 (805 10 7596 (858 27 7704 (871 45 7724 (873 63 7824 (884 82	Max. C) 3000 (88524 (8962 (25) 9275 (41) 9304 (60) 9281 (79	Sont. 207) 963) 1013) 1048) 1051) 1049) 1	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 41 9964 (11 59 0011 (11 77	24) 0550) 1999) 115) 126) 131)	The RPM 6 11 21 41 61 82
5 22 Flow GPM	heo. Torque 2.8 in ³ 1 5 1 2 1 2 1 4 4 6 8 30)	³ /rev 250 574 4 589 596 12 596 12 596 4 570 627 4 570 647 6	5000 500 5000 5	psi (ba 500 (35) 1272 (144 1345 (152 1345 (154 1400 (158 39 1334 (151 60 1337 (151 80 1161 (131 101	Ins) 1000 (69) 1000 (69) 27 (302 27 (312 7 1 2907 (322 7 1 2907 (322 7 1 2908 (337 37 1 2908 (336 58 1 2876 (325 78 1 2968 (313 99	4371 (494) 4371 (494) 1500 (104) 3970 (449)) 3970 (449)) 4308 (476)) 4388 (496)) 4388 (496)) 4588 (501) 34) 4598 (502) 54) 4598 (502) 73 3 (4439) (502)	5828 (659) 5828 (659) 2000 (138 5535 (625 4 5695 (644 12 6020 (680 30 6141 (694 49 6113 (691 69 1695 (686 89	2500 (173) 7122 (805 10 7596 (858 27 7704 (871 45 7724 (873 63 7824 (884 82	Max. C) 3000 (88524 (8962 (25) 9275 (41) 9304 (60) 9281 (79	Sont. 207) 963) 1013) 1013) 1048) 1051) 1049) 1 1053)	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 41 9964 (11 59 0011 (11	24) 0550) 1999) 115) 126) 131)	Thee RPN 6 11 21 41 61 82 102
5 2. Flow GPM 0. 11 11 1.	heo. Torque 2.8 in ³ 1 5 1 2 1 2 3 4 4 6 8 30 0 2 45)	³ /rev 250 574 4 589 596 12 596 12 596 4 570 627 4 570 647 6	5000 500 5000 5	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18 1400 (158 39 1334 (151 60 1337 (151 80 1151 (1337) 1161 (1337) 1161 (1317) 195 (112 121 878 (99)	Ins) 1000 (69) 2670 (202 2757 (312 7 2907 (325 17 2982 (337 37 2982 (337) 37 2986 (326 78 292 2758 (312) 298 (383) 2876 (325) 78 99 2725 (306) 1200 2508 (283)	4371 (494) 4371 (494) 1500 (104) 3970 (449 1) 4308 (475 5 5 1 4388 (496 14) 4598 (520 54) 4598 (520 54) 4598 (520 54) 4397 (502 95) 4375 (494 116) 4149 (469) 4149 (469) 416 (469) 416) 416 (469) 416 (469) 4	5828 (659) 5828 (659) 2000 (138) 1 5635 (625) 2 6020 (680) 1 5695 (644) 1 2000 (613) 6010 6141 (694) 6113 (691) 6075 1 699 6075 0 6075 (686) 89 6059 (685) 109 5705 (645)	2500 (173 7122 (805 10 7596 (858 27 7704 (871 45 7724 (873 7824 (884 82 7626 (862 103 7467 (844	Max. C) 3000 () 8524 (8 8) 8962 (25 9275 (41 9304 (92321 (9221 (98962 (9321 (Sont. 207) 963) 1013) 1048) 1051) 1049) 1053) 1013)	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 41 9964 (11 79 0011 (11 77 0066 (11 97 9877 (11	24) 050) 115) 126) 131)	Theorem 111 111 1111 11111111111111111111111
5 22 Flow GPM	heo. Torque 2.8 in ³ 1 (LPM) .5 (2) 1 (4) 2 (8) 4 (15) 6 (23) 8 (30) 10 (38) 12 (45) 4 (53)	³ /rev 250 574 4 589 596 12 596 12 596 4 570 627 4 570 647 6	5000 500 5000 5	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18 1400 (158 39 1334 (151 60 11337 (151 80 1161 (131 995 (112 121 878 (99) 141 662 (75)	Ins) 1000 (69) 2670 (302 2 2 7 3 7 3 2 3 3 3 2 2876 (325 78 3 2876 (325 9 2725 (306 1200 2508 (283 140 2319 (262	4371 (494) 4371 (494) 1500 (104) 3970 (449 1 4208 (475 5 14388 (496 14 14598 (520 54 14598 (520 54 14598 (520 54 14598 (520 54 14598 (520 54 14598 (520 54 146 157 16 16 16 16 16 16 16 16 16 16	5828 (659) 5828 (659) 2000 (138) 3 5535 (625) 4 30 5695 4 12 6020 (680) 3 6020 (614) (694) 40 6143 (691) 6075 (685) 109 6059 (685) 109 5705 (645) 109 5705 (643) 131 (5587) (631)	2500 (173 10 7596 (856 27 7704 (871 45 7724 (873 63 7824 (884 82 7626 (862 103 7467 (844 125 7283 (823	Max. C) 3000 () 8524 (8 8 () 8962 (25 9275 (41 9304 (9304 (600 9281 (79 9325 (9324 (9304 (9304 (9305 (117) 8930 (eont. 207) 963) 1013) 1048) 1051) 1051) 1049) 1 1053) 1 1013) 1013) 1009)	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 59 9064 (11 59 9064 (11 97 0066 (11 97 9877 (11 9877 (11 115 9859 (11)	24) 050) 099) 115) 126) 131) 137) 116)	Thee RPN 6 111 21 41 61 82 102 122 122 142
5 22 Flow GPM	heo. Torque 2.8 in ³ 1 5 1 2 1 2 3 4 4 6 8 30 0 2 45)	³ /rev 250 574 4 589 596 12 596 12 596 4 570 627 4 570 647 6	5000 500 5000 5	psi (bz) 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18 1400 (158 39 1337 (151 80 1161 (131 995 (112 121 878 (99) 141	Ins) 1000 (69) 2670 (302 2 2 2 2 2 2 2 2 2 12 7 2 90 37 99 2 768 (325 99 2 9 2 2 2 2 2 2 2 3 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4371 (494) 4371 (494) 1500 (104) 3970 (449 1) 4208 (475 5 14388 (496 14) 4536 (513 34) 4538 (520 54 12 73) 4439 (502 95) 4375 (494 116) 4149 (499 136	5828 (659) 5828 (659) 2000 (138) 3 5535 (625) 4 12 (602) 6020 (680) (6141) (694) 6030 (6141) (694) (613) 6040 (6075) (668) (689) 10075 (686) (614) (614) 109 (675) (686) (614) 109 (675) (686) (614) 109 (5765) (645) (131) 10 (587) (631) (655)	2500 (173) 7122 (805 10 7596 (858 27 7704 (871 45 7704 (871 82 7824 (884 82 7626 (862 103 7467 (844 125 7283 (823 148	Max. C) 3000 () 8524 (8 8) 8562 (25 9275 ((1) 9304 (60 9281 (93921 (9393 (93896 (111) 8393 (Sont. 207) 963) 1013) 1051) 1051) 1053) 1 1013) 1013) 1053) 1 1009) 3	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 59 0011 (11 77 0066 (11 97 9877 (11 9877 (11 115	24) 050) 115) 126) 131) 137) 116) 114)	Thece RPN 6 11 21 41 61 82 102 122 122 142
30 Tr 5 2. Flow GPM 0.	heo. Torque 2.8 in ³ 1 (LPM) .5 (2) 1 (4) 2 (8) 4 (15) 6 (23) 8 (30) 10 (38) 12 (45) 4 (53)	³ /rev 250 574 4 589 596 12 596 12 596 4 570 627 4 570 647 6	5000 500 5000 5	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18 1400 (158 39 1334 (151 60 11337 (151 80 1161 (131 995 (112 121 878 (99) 141 662 (75)	Ins) 1000 (69) 1000 (69) 2 2 7 2 7 1000 (200) 2 1000 (200) 2 1000 (200) 2 1000 (200) 37 1000 (300) 37 1000 (300) 38 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 37 1000 (300) 3100 1000 (300) 3100 1010 (300) 3100 1010 (300) 3100 1010 (300) 3	4371 (494) 4371 (494) 1500 (104) 3970 (449 1 4208 (475 5 14388 (496 14 14538 (520 54 14538 (520 54 14538 (520 54 14539 (522 95 136 14375 (494 116 13923 (443 160 13779 (427 178	5828 (659) 5828 (659) 2000 (138) 30 5535 (625) 4 1 5695 (644) 12 6020 (680) (614) (69) 6075 (685) 109 (6075) (645) 131 10 5507 (631) 1555 109 1575 (541) (552) 131 1555 109 1575 15416 (612) 175 </td <td>2500 (173 7122 (805 27 7596 (855 27 7704 (871 45 7724 (871 45 7724 (873 63 7824 (884 82 7626 (862 103 7467 (844 125 7283 (823 148 7119 (804 167</td> <td>Max. C 3000 (3000 (8524 (8962 (25) 9275 (9304 (9304 (9304 (9304 (9304 (9321 (9321 (9321 (9321 (9321 (930 (111) 8895 (166</td> <td>cont. 207) 1 963) 1 963) 1 1013) 1 1049) 1 1053) 1 1013) 1 1053) 1 1005) 1 1005) 1</td> <td>Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 59 9867 (11 59 90011 (11 77 0066 (11 97 9877 (11 9877 (11 115 9859 (11 136 9653 (10 156</td> <td>24) 050) 099) 115) 126) 131) 137) 116) 114) 091)</td> <td>Thee <u>RPPM</u> <u>6</u> <u>11</u> <u>21</u> <u>41</u> <u>61</u> <u>82</u> <u>1022</u> <u>1222</u> <u>1422</u> <u>1633</u></td>	2500 (173 7122 (805 27 7596 (855 27 7704 (871 45 7724 (871 45 7724 (873 63 7824 (884 82 7626 (862 103 7467 (844 125 7283 (823 148 7119 (804 167	Max. C 3000 (3000 (8524 (8962 (25) 9275 (9304 (9304 (9304 (9304 (9304 (9321 (9321 (9321 (9321 (9321 (930 (111) 8895 (166	cont. 207) 1 963) 1 963) 1 1013) 1 1049) 1 1053) 1 1013) 1 1053) 1 1005) 1 1005) 1	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 59 9867 (11 59 90011 (11 77 0066 (11 97 9877 (11 9877 (11 115 9859 (11 136 9653 (10 156	24) 050) 099) 115) 126) 131) 137) 116) 114) 091)	Thee <u>RPPM</u> <u>6</u> <u>11</u> <u>21</u> <u>41</u> <u>61</u> <u>82</u> <u>1022</u> <u>1222</u> <u>1422</u> <u>1633</u>
30 Th Flow GPM 0. 	heo. Torque 2.8 in ³ 1 (LPM) .5 (2) 1 (4) 2 (8) 4 (15) 6 (23) 8 (30) 10 (38) 12 (45) 4 (53) 16 (61)	³ /rev 250 574 4 589 596 12 596 12 596 4 570 627 4 570 647 6	5000 500 5000 5	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18 1400 (158 39 1334 (151 60 11337 (151 80 1161 (131 995 (112 121 878 (99) 141 662 (75)	Ins) 1000 (69) 1000 (69) 2 2757 (312 7 2907 (325 7 1 2907 (325 7 1 2907 (325 7 1 2908 (336 37 2969 (336 58 1 2876 (325 78 1 275 (306 913 1 275 (306 140 2508 (263 140 2319 (262 161 1 1925 (218 181 1 1925 (215 202	4371 (494) 4371 (494) 1500 (104 13970 (449 1 4208 (475 5 14208 (496 14 14532 (512 73 1438 (502 95 14375 (494 1459 (452 136 1449 (466) 1449 (466) 144 (466) 1449 (466) 1449 (466) 1449 (466) 1449 (466) 1449 (466) 1449 (466) 1449 (466) 1449 (466) 1440 (466) 1440 (466) 144 (466) 1440 (466) 144 (46) 144 (466) 144 (466) 144 (466) 144 (466) 1	5828 (659) 5828 (659) 2000 (138) 3 5535 (625) 4 12 (602) 6 613 (69) 6 13 (69) 6 059 (644) 9 6013 (69) 6 13 (69) 6 059 (685) 109 5705 (644) 1558 109 5705 5 15416 (612) 175 54416 (612) 175 5416 (158) 195 5161 (583)	2500 (173 7122 (805 10 7596 (858 27 7704 (871 45 7724 (873 63 7824 (884 82 7626 (862 103 7467 (844 125 7283 (823 148 7119 (804 167 6886 (778 189 189 189 189 199 199 199 19	Max. C) 3000 () 8524 (8 8) 8962 (25 9) 9275 (41 9304 (60 9281 (9281 (9390 (117 8895 (143 () 8895 (146 () 8549 (207) 207) 963) 1013) 1048) 1051) 1049) 1053) 1003) 1003) 1003) 1005) 966)	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 41 9964 (11 77 0011 (11 97 9877 (11 115 9859 (11 136 9653 (10 156 9474 (10 173	24) 250) 299) 115) 126) 131) 137) 116) 114) 291) 2071)	Thec RPN 6 111 21 41 61 82 102 122 142 163 183
30 Tr Flow GPM 0.	heo. Torque 2.8 in ³ 1 (LPM) .5 (2) 1 (4) 2 (8) 4 (15) 6 (23) 8 (30) 0 (38) 2 (45) 4 (53) 16 (61) 8 (68) 20 (76)	³ /rev 250 574 4 589 596 12 596 12 596 4 570 627 4 570 647 6	5000 500 5000 5	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18 1400 (158 39 1334 (151 60 11337 (151 80 1161 (131 995 (112 121 878 (99) 141 662 (75)	Ins) 1000 (69) 1000 (69) 2 277 (32) 2 77 (32) 7 1 2907 (322) 7 1 2907 (322) 7 1 2907 (322) 7 1 2908 (333) 37 1 2908 (333) 9 1 2725 (306) 120 2508 (283) 140 2119 (262) 161 1 1928 (248) 181 1 925 (218) 202 1 676 (185) 1676	4371 (494) 4371 (494) 1500 (104) 3970 (449 1) 4208 (475 5) 4388 (496 14) 4532 (512 34) 4538 (520 54) 4538 (520 54) 4538 (520 95) 4375 (494 116) 4149 (469 136) 3923 (443 116) 3923 (443 116) 3179 (427 178) 3568 (403 200) 3318 (375)	5828 (659) 5828 (659) 2000 (138 3 5535 (625 4 1 5695 4 10 5695 4 10 5602 30 0 6141 602 (680 30 0 6141 (694 9 6075 (685 109 5705 (645 155 1561 (5416 155 5161 (583 9 5416 (6117 95 5161 (583 94967 (561	2500 (173 7122 (805 10 7596 (858 27 7704 (871 45 7724 (873 63 7824 (883 82 7626 (862 103 7467 (844 125 7283 (823 148 7119 (804 167 6886 (778 189 6669 (754	Max. C 3000 (3000 (8524 (8 8962 (25 9275 (41 9304 (60 9321 (9321 (9330 (117 8930 (142 8895 (160 83549 (1776 8357 (cont. 207) 963) 1013) 1013) 1049) 1051) 1049) 1013) 1049) 1013) 1049) 1013) 1009) 3 1005) 966) 9942)	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 9964 (11 59 0011 (11 77 0066 (11 97 9877 (11 136 9853 (10 136 9454 (10 173 9474 (10 175 9477 (11 176 176 176 177 9477 (11 176 176 176 176 177 176 176 1	24) 250) 299) 115) 126) 131) 137) 116) 114) 291) 2071)	Thee RPM 6 11 21 41 61 82 102 122 142 163 183 203
30 Th Flow GPM 0.	heo. Torqu heo. Torqu 2.8 1 (LPM) .5 1 2 1 2 1 2 1 2 1 2 3 4 15) 6 6 10 (38) 12 (4 (53) 16 (61) 18 (68) (20 (22 (83)	³ /rev 250 574 4 589 596 12 596 12 596 4 570 627 4 570 647 6	5000 500 5000 5	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18 1400 (158 39 1334 (151 60 11337 (151 80 1161 (131 995 (112 121 878 (99) 141 662 (75)	Ins) 1000 (69) 2670 (302 2 2 2757 (312 7) 2907 (325 17) 2907 (325 17) 2907 (325 17) 2982 (337 37 39) 2768 (312) 99) 2768 (312) 99) 2768 (312) 120 2508 (283) 140 2319 (262) 161 1925 (218) 1925 (218) 1925 (218) 1925 (218) 1925 (216) 181 1925 (216) 1925 (216) 181 1925 (216) 1925 (216) 1374 (155)	4371 (494) 4371 (494) 1500 (104) 3970 (449) 1 3970 1 4208 1 4308 1 4308 1 4598 1 4598 1 4598 1 4598 1 4598 1 4598 1 4598 1 4598 1 4598 1 4305 1 4305 1 4305 1 361 1 362 1 360 1 3709 1 3668 1 3041 1 3041	5828 (659) 5828 (659) 2000 (138) 5535 (645) 4 5695 4 5695 6020 (641) 6020 (641) 6030 6075 6040 89 6075 (645) 109 (5587 5416 (612) 155 (546 195 5416 195 4967 217 2173 4732 (535)	2500 (173 7122 (805 10 7596 (858 27 7704 (871 45 7724 (873 7824 (884 82 7626 (862 103 7467 (844 125 7283 (823 148 7119 (804 167 6686 (778 189 6669 (754 189 6669 (754 189 6669 (754 199 199 10 10 10 10 10 10 10 10 10 10	Max. C 3000 (3000 (8524 (8962 (25 9275 (9275 (9271 (9281 (9283 (1930 4 (9281 (9281 (9895 (143 8895 (166 8549 (177 () 8335 (201	cont. 207) 963) 1013) 1013) 1049) 1051) 1049) 1013) 1049) 1013) 1049) 1013) 1009) 3 1005) 966) 9942)	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 41 9964 (11 77 0011 (11 97 9877 (11 115 9859 (11 136 9653 (10 156 9474 (10 173	24) 250) 299) 115) 126) 131) 137) 116) 114) 291) 2071)	Thec RPM 6 111 211 411 611 82 1022 1422 1633 1833 2033 2233
30 Th Flow GPM 0.	heo. Torque 2.8 in ³ 1 (LPM) .5 (2) 1 (4) 2 (8) 4 (15) 6 (23) 8 (30) 0 (38) 2 (45) 4 (53) 16 (61) 8 (68) 20 (76)	³ /rev 250 574 4 589 596 12 596 12 596 4 570 627 4 570 647 6	5000 500 5000 5	psi (ba 500 (35) 1272 (144 3 1345 (152 8 1365 (154 18 1400 (158 39 1334 (151 60 11337 (151 80 1161 (131 995 (112 121 878 (99) 141 662 (75)	Inspace 1000 (69) 2670 (302 2 2757 (312 7 2907 (325 17 2907 (325 17 2907 (325 17 2982 (337 37 2969 (336 (313) 99 2768 (313) 99 2768 (313) 99 2508 (283) 140 2319 (265) 181 1925 (218) 202 1616 (185) 202	4371 (494) 4371 (494) 4371 (494) 1500 (104)) 3970 (449 1 4208) 4208 (475) 4538 (496 14) 4536) 4538 (502 95)) 4539 (502 95)) 4375 (494) 116)) 4532 (432 136 (403) 3759 (427) 178)) 3568 (403 200)) 3118 (375 221)) 3041 200)	5828 (659) 5828 (659) 2000 (138) 2000 (138) 2000 (138) 2000 (138) 2000 (630) 2010 (630) 2011 (691) 2011 (691) 2011 (691) 2011 (691) 2015 (614) 2016 (613) 2017 (636) 2018 (613) 2019 (570) 5161 (583) 195 (5416) 2017 (561) 2016 (561) 2017 (561) 2017 (561) 2017 (561) 2017 (561) 2017 (561)	2500 (173 7122 (805 10 7596 (858 27 7704 (871 45 7724 (873 63 7824 (884 82 7626 (862 7467 (844 125 7283 (823 148 7119 (804 167 6886 (778 189 6669 (754 211 6410 (724 228)	Max. C) 3000 (8 8) 8524 (8 8) 9275 (41 9304 (0 9221 (9323 (9323 (9330 (143) 8895 (166 (8649 (177) 8335 (201 201	cont. 207) 963) 1013) 1013) 1049) 1051) 1049) 1013) 1049) 1013) 1049) 1013) 1009) 3 1005) 966) 9942)	Inter. 3250 (22 9288 (10 7 9723 (10 23 9867 (11 9964 (11 59 0011 (11 77 0066 (11 97 9877 (11 136 9853 (10 136 9454 (10 173 9474 (10 175 9477 (11 176 176 176 177 9477 (11 176 176 176 176 177 176 176 1	24) 250) 299) 115) 126) 131) 137) 116) 114) 291) 2071)	Theor RPM 6 11 21 41 61

Areas within white represent maximum motor efficiencies.

DO NOT operate at maximum pressure and maximum flow simultaneously.

Torque, lb-in (Nm) Speed, RPM

Tested at 129°F with an oil viscosity of 213 SUS

Note: Performance data is typical. Performance of production units varies slightly from one motor to another.

304

 Theo. Torque
 908
 (103)
 1815
 (205)
 3631
 (410)
 5446
 (615)
 7261
 (821)
 9076
 (1026)
 10892
 (1231)
 11799
 (1333)

2110 (238) 3820 (432) 5503 (622) 303 301 296

Inter.

C

30 (114)



470 28.3 in³/rev

Flow	Pressure 250 (17)	psi (bars) 500 (35)		1500 (104)	2000 (128)	Max. Cont. 2500 (173)	3000 (207)	Inter. 3250 (224)
GPM (LPM)	250 (17)	500 (55)	1000 (69)	1500 (104)	2000 (136)	2500 (175)	3000 (207)	3230 (224)
	762 (86)	1790 (201)	3553 (401)					
0.5 (2)	3	2	2					
0.5 (2)	817 (92)			5395 (610)	7137 (806)			
1 (4)	7	7	6 6	5	4			
	835 (94)		3702 (418)			9226 (1042)	10961 (1239)	
2 (8)	15	15	14	13	11	9	8	
	815 (92)	1784 (202)	3769 (426)	5717 (646)	7513 (849)	9430 (1066)	11256 (1272)	12217 (1381
4 (15)	32	32	30	28	24	23	21	19
	729 (82)	1799 (203)	3744 (423)	5725 (647)	7565 (855)	9473 (1070)	11287 (1275)	12083 (1365
6 (23)	48	47	46	43	39	36	34	32
	595 (67)	1641 (185)	3663 (414)		7671 (867)	9538 (1078)	11508 (1300)	12367 (1398
8 (30)	65	64	63	60	54	47	46	44
	459 (52)				7584 (857)	9531 (1077)	11352 (1283)	12323 (1393
10 (38)	81	80	79	76	69	63	61	58
			3366 (380)			9488 (1072)	11523 (1302)	
12 (45)		97	96	93	88	77	74	68
					7282 (823)	9350 (1057)	11242 (1270)	12318 (1392
14 (53)		114	113	110	104	97	89	85
		888 (100)			7061 (798)			12118 (1369
16 (61)		130	129	127	119	114	108	102
10 (00)		595 (67)		· · ·	6772 (765)	8875 (1003)	· · ·	11926 (1348
18 (68)		146	145	143	137	132	120	114
00 (70)			2428 (274) 162	4458 (504) 160	6485 (733) 155	8536 (965) 148	10592 (1197) 139	11668 (1318 136
20 (76)				4050 (458)		8215 (928)	10181 (1150)	11200 (1266
22 (83)			2003 (226) 178	4050 (458) 175	172	165 (920)	10181 (1150) 156	11200 (1200 154
22 (03)				3670 (415)		7833 (885)	150	134
24 (91)			194	192	190	183 (885)		
24 (31)			134		5589 (632)	7676 (867)		
25 (95)				203	198	190		
` <u></u>					4549 (514)	6684 (755)		
30 (114)				2431 (277) 243	240	235		
00 (111)				_ 10	_ 10	_30		

Areas within white represent maximum motor efficiencies.

Theo. RPM 5

9

98

115

205

245

DO NOT operate at maximum pressure and maximum flow simultaneously.

> Torque, Ib-in (Nm) Speed, RPM

540 *32.7 in³/rev*

Max.

Cont

Inter.

	Pressure	psi (bars)			Max. Cont.	Inter	
Flow	250 (17)	500 (35)		1500 (104)	2000 (138)	2500 (173)	3000 (207)	Theo.
GPM (LPM)		• • • • •			• • • • •	• • • •		RPM
	908 (103)	1907 (215)	3722 (421)					
0.5 (2)	2	2	1					4
	917 (104)	2016 (228)	4015 (454)	5897 (666)	7730 (874)			
1 (4)	6	5	4	3	1			8
	954 (108)	2043 (231)	4191 (474)	6231 (704)	8190 (925)	10201 (1153)		
2 (8)	13	12	11	9	5	4		15
	906 (102)	2052 (232)	4448 (503)	6692 (756)	8799 (994)	10806 (1221)	12930 (1461)	
4 (15)	27	26	24	21	18	15	13	29
	866 (98)	2038 (230)	4404 (498)	6774 (766)	9049 (1023)	11225 (1268)	13219 (1494)	
6 (23)	42	41	39	36	30	27	24	43
	744 (84)		4280 (484)				13486 (1524)	
8 (30)	56	55	53	49	42	38	34	57
	561 (63)		4122 (466)	6519 (737)	8903 (1006)	11374 (1285)	13556 (1532)	
10 (38)	70	69	68	64	57	49	46	71
	373 (42)		3928 (444)	. ,	8710 (984)		13436 (1518)	
12 (45)	84	83	82	79	72	65	57	85
			3722 (421)		8529 (964)		13381 (1512)	
14 (53)		97	95	93	87	80	70	99
		1025 (116)			8230 (930)		13086 (1479)	
16 (61)		113	111	108	103	97	84	114
		798 (90)	3153 (356)		7969 (900)		12841 (1451)	
18 (68)		127	125	123	116	107	100	128
		498 (56)	2923 (330)		7850 (887)		12578 (1421)	
20 (76)		141	139	137	133	123	114	142
				4859 (549)	7271 (822)		12283 (1388)	
22 (83)			155	153	148	136	133	156
				4494 (508)	7024 (794)	9325 (1054)		
24 (91)			169	166	164	156		170
				4299 (486)	6741 (762)	9075 (1025)		
25 (95)			176	174	169	163		177
			800 (90)	3237 (366)	5649 (638)	8144 (920)		
30 (114)			211	210	207	203		212
Theo, Torque	1200 (147)	2604 (204)	E007 (E00)	7044 (002)	10414 (1177)	12010 (1474)	15621 (1765)	1
i ineo, iorque	≠ I ISUZ (147)	∠004 (294)	JZU/ (300)	1011 (003)	10414 (11//)	13010 (14/1)	10021 (1705)	1

RPM	
4	
8	
15	
29	
43	
57	
71	
85	
99	
114	
128	
142	
156	
170	

Tested at 129°F with an oil viscosity of 213 SUS

Note: Performance data is typical. Performance of production units varies slightly from one motor to another.



750 45.6 in³/rev

		Pressure	psi (bars))			Max. Cont.	inter.		
	Flow	250 (17)	500 (35)	1000 (69)	1500 (104)	2000 (138)	2500 (173)	3000 (207)	Theo.	Areas within white represent
	GPM (LPM)								RPM	maximum motor efficiencies.
		1276 (144)	2566 (290)							maximum motor emclencies.
	0.5 (2)	1	1						3	
		1367 (154)	2863 (323)	5917 (669)	8242 (931)					
	1 (4)	4	3	2	2				6	
		1435 (162)	3015 (341)	6302 (712)	9038 (1021)	11550 (1305)				
	2 (8)	9	9	7	6	3			11	DO NOT operate at maximum
	. /	1400 (158)	3080 (348)	6399 (723)	9578 (1082)	12410 (1402)				•
	4 (15)	19	19	17	15	11			21	pressure and maximum flow
-	. ()			6317 (714)		12678 (1433)	15430 (1744)			simultaneously.
	6 (23)	30	29	27	24	20	16		31	Simulaneously.
ŀ	0 (20)			6167 (697)		12843 (1451)				
	8 (30)	40	39	37	34	25	20		41	
-	0 (00)			5976 (675)				18373 (2076)		
	10 (38)	50	50	47	44	36	28	19	51	
-	10 (30)	682 (77)		5792 (655)		12668 (1431)			- 51	Tested at 129°F with an oil
	12 (45)	60 60	59	57 52 (000)	54 54	49	36	30	61	
-	12 (43)		2116 (239)					18578 (2099)	01	viscosity of 213 SUS
	44 (50)	410 (46)	· · · ·	· /	. ,	` '	· · · ·	· · · · ·		·
-	14 (53)		69	68	65	59	45	37	71	
	10 (01)			5164 (584)	. ,	11907 (1345)	· · · ·	· · · · ·		
-	16 (61)		81	79	76	70	57	44	82	
				4819 (545)	8209 (928)	11556 (1306)				
	18 (68)		91	90	86	80	69		92	Note: Performance data is
				4395 (497)	7635 (863)	11154 (1260)				
-	20 (76)		101	100	97	90			102	typical. Performance of
				3926 (444)	7351 (831)	10737 (1213)				production units varies slightly
	22 (83)			110	108	101			112	
				3447 (389)	6947 (785)	10581 (1196)				from one motor to another.
	24 (91)			121	117	111			122	
Max.				3255 (368)	6697 (757)	10126 (1144)				
Cont.	25 (95)			126	124	120			127	
ſ				1813 (205)	5428 (613)	8665 (979)				
Inter.	30 (114)			151	149	146			152	
-	· / /									
	Theo. Torque	1815 (205)	3631 (410)	7261 (821)	10892 (1231)	14522 (1641)	18153 (2051)	21783 (2462)		
										Torque, lb-in (Nm)

Torque, lb-in (Nm) Speed, RPM

930 56.7 in³/rev

	Pressure	psi (ba						Max. Cont.		Inter.
low	250(17)	500 (35)	750 (52)	1000(69)	1250(86)	1500(104)	1750(121)	2000(138)	2250(155)	2500(173)
<u>GPM (LPM)</u>										
. [1590(180)	3423(387)	5368(607)	7089(801)						
0.5(2)	1	1	1	1						
	1734(196)	3696(418)	5780(653)	7649(864)	9447(1067)	11451(1294)				
1(4)	4	3	3	3	3	3				
	1816(205)	3907(442)	6015(680)	7764(877)	9886(1117)	11501(1300)	13365(1510)			
2 (8)	8	7	7	7	7	6	5			
	1753(198)	3825(432)	5878(664)	8021(906)	9924(1121)	11840(1338)	13769(1556)	15306(1730)		
4 (15)	16	16	15	15	15	14	13	11		
	1633(185)	3719(420)	5765(651)	8034(908)	9935(1123)	11991 (1355)	13651(1543)	15873(1794)	17532(1981)	
6 (23)	24	24	24	24	23	22	20	18	16	
	1438(162)	3576(404)	5624(636)	7900(893)	9800(1107)	11854(1340)	13988(1581)	15716(1776)	17570(1985)	18632(2105)
8 (30)	32	31	30	30	29	28	27	24	22	17
	1109(125)	3253(368)	5536(626)	7476(845)	9620(1087)	11625(1314)	1325(11497)	15364(1736)	17306(1956)	19054(2153)
10(38)	40	40 (39	38	38	36	34	31	28	24
	807 (91)	3018(341)	5111(578)	7213(815)	9487(1072)	11630(1314)	13492(1525)	15159(1713)	17222(1946)	18873(2133)
12(45)	48	47	46	45	44	42	41	36	33	32
	310(35)	2565(290)	4715(533)	6772(765)	9059(1024)	10974(1240)	13155(1487)	15287(1727)	17216(1945)	19188(2168)
14(53)	. ,	56	55	54	52	50	49	45	43	36
		2118 (239)	4281(484)	6429(726)	8488(959)	10708(1210)	12830(1450)	15008(1696)	17039(1925)	18934(2140)
16(61)		64	63	62	61	59	57	54	50	46
		1811(205)	3891(440)	6202(701)	8143(920)	10418(1177)	12580(1422)	14538(1643)	16741(1892)	18625(2105)
18(68)		72	72	70	69	67	65	64	58	55
		1325(150)	3616(409)	5590(632)	7091(801)	9733 (1100)	12135(1505)	14148(1599)	16454(1859)	18230(2060)
20 (76)		81	80	79	78	76	75	72	67	63
		875 (99)	2977(336)	5139(581)	7403(837)	9342(1056)	11553(1305)	13816(1561)	15918(1799)	17925(2025)
22 (83)		89	88	87	86	83	83	80	77	71
			2497(282)	4438(501)	6778(766)	9038(1021)	11201(1266)	13179(1489)	15505(1752)	17427(1969)
24 (91)			97	96	94	93	92	89	86	82
			2137 (241)	4389(496)	6390(722)	8621(974)	10743(1214)	12863(1454)	15286(1727)	17309(1956)
25 (95)			101	100	100	97	96	93	89	84
			582 (66)	2652(300)	4711 (532)	6914(781)	9235(1044)	11248 (1271)		
30 (114)			122	121	120	118	118	116		
									20314(2296)	



1K1 63.9 in³/rev

	Pressure							Max. Cont.		Inter.	
Flow GPM (LPM)	250(17)	500 (35)	750 (52)	1000 (69)	1250 (86)	1500 (104)	1750 (121)	2000 (138)	2250 (155)	2500 (173)	Th RF
	1918(217)	4026(455)	5940(671)	7879(890)							
0.5(2)	1	1 1	0.9	0.6							
1 (4)	1821(206)	4410(498)	6251(706)	8273(935)	10518 (1189)						
1(4)	3 1985(224)	4407(498)	∠ 6672(754)	∠ 8700(983)	10810 (1222)	12635 (1428)					$i \vdash$
2 (8)	6	6 ′	6 ′	5 ´	5	4 (
4 (45)			· · · · /	· · · · · · · · · · · · · · · · · · ·	11169 (1262)	13147 (1486)	15014 (1697)				
4 (15)	14 1500(170)	13 4314(487)	13 6538(730)	13 0023 (1020)	10056/1238)	10 13286 <i>(</i> 1501)	9 1/008/1605)	16936 (1914)			1
6 (23)	21	21	20 20	19 19	18	16	14990(1093) 14	10930 (1914) 12			2
		3814(431)	6270(709)	8580(970)	10986(1241)	13106 (1481)	15280(1727)	17185 (1942)	18971 (2144)		
8 (30)	28	28	28	27	26	23	20	16	9		2
10(38)	1143(129) 36	3546(401) 36	35 35 3975	3356(944) 34	10688(1208) 32	12879 (1455) 29	15168(1714) 26	16982 (1919) 26	18983 (2145) 17		
10(00)									18879 (2133)	20456 (2311)	
12(45)	43	43	42	41	40	37	31	25	22	19 (4
44(50)	390 (44)									20596(2327)	
14(53)		50 2220(251)	49 4569 (516)	49 6871 (776)	47 9402 (1062)	44 11678 (1320)	40 14045(1587)	33 16261 (1837)	29 18426 (2082)	20 275 (2291)	
16(61)		57	56	56	55	52	50	38 (30	29	
10(00)									18147 (2051)	20130 (2275)	
18(68)		65 1022 (117)	65 2452(200)	64	62 8227(020)	60 10502(1197)	59 12974 (1506)	52	41	33 19716 (2228)	6
20 (76)		72	71	71	70	69	64	58	57	45	7
			2741(310)	5034(569)	7493(847)	9846 (1113)	12214(1380)	14599 (1650)	17055 (1927)	18924 (2138)	
22 (83)		79	79	78	77	76	74	67	<u>62</u>	51	8
24 (91)			1862 (210) 86	4346(491) 85	84	83 83	11398(1288) 81	13///(155/) 76	(1827) 40101 71	18591 (2101) 61	6
x.									15844 (1790)	17950 (2028)	
nt. 25 (95)			9Ò ´	90 (89	88	85	82	76	71	
er. 30 (114)				1789(202) 108	4217(477) 107	6460(730) 106	8962(1013) 105	10947 (1237) 104			1

Theo. Torque [2544 (287)]5088 (575)]7631 (862)10175 (1150)]12719 (1437)[15263 (1725)]17807 (2012)[20350 (2300)]22894 (2587)]25438 (2874)]

Torque, Ib-in (Nm) Speed, RPM

1K5 91.2 in³/rev

Flow	250 (17)	psi (bars) 500 (35)	750 (52)	1000 (69)	1250 (86)	Max. Cont. 1500 (104)	Inter. 1750 (121)	
GPM (LPM)	250 (17)	500 (55)	750 (52)	1000 (09)	1250 (60)	1500 (104)	1750 (121)	
	2702 (205)	5736 (648)						
0.5 (2)	2703 (303) 0.9	0.6						
0.5 (2)		6128 (693)	8942 (1011)					
4.40								
1 (4)	2	1 6454 (729)	1	40070 (4004)				
0 (0)				12072 (1364)				
2 (8)	4	4	3	3	45000 (4774)			
		6304 (712)			15668 (1771)			
4 (15)	9	9	8	7	7			
- ()		6023 (681)		12952 (1464)				
6 (23)	15	14	13	12	10			
		5662 (640)			15864 (1793)			
8 (30)	20	19	18	17	15	9		
		5159 (583)			15479 (1749)			
10 (38)	25	24	23	22	19	14		
		4695 (531)	8315 (940)		15066 (1702)			
12 (45)	30	29	28	27	24	19	14	
	594 (67)	4282 (484)	7689 (869)		14532 (1642)			
14 (53)		35	33	32	30	24	15	
		3457 (391)	6805 (769)		13866 (1567)			
16 (61)		40	39	37	36	32	21	
		2602 (294)	6072 (686)				19366 (2188)	
18 (68)		45	44	43	40	38	27	
		1607 (182)	5435 (614)	8746 (988)			18553 (2301)	
20 (76)		50	49	48	47	44	37	
		770 (87)	4310 (487)	7720 (872)	11356 (1283)	14442 (1632)	17883 (2021)	
22 (83)		55	54	53	52	48	46	
			4032 (456)	6632 (749)	10143 (1146)	13570 (1533)	16568 (1872)	
24 (91)			60	60	58	58	50	
			2589 (293)	6232 (704)	9313 (1052)	12961 (1465)	16306 (1843)	
25 (95)			63	62	62	59	53	
				2174 (246)	5711 (645)	9265 (1047)		
30 (114)				75	74	73		

Areas within white represent maximum motor efficiencies.
DO NOT operate at maximun

וטא טע operate at maximum pressure and maximum flow simultaneously.

Tested at 129°F with an oil viscosity of 213 SUS

Note: Performance data is typical. Performance of production units varies slightly from one motor to another.



	Pressure	psi (bars)				Max. Cont.	Inter.
ow	250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	1500 (104)	1750 (121)
PM (LPM)							
	3878 (438)	7894 (892)					
0.5 (2)	0.8	0.8					
	3891 (440)	8162 (922)	12375 (1398)				
1 (4)	1	1	1				
	4073 (460)	8458 (956)	12923 (1460)				
2 (8)	3	3	3				
	3920 (443)	8525 (963)	13192 (1491)	17520 (1980)			
4 (15)	7	7	6	6			
	3560 (402)	8179 (924)	13012 (1470)	17370 (1963)			
6 (23)	10	10	10	9			
	2985 (337)	7824 (884)	12613 (1425)	16995 (1920)	21152 (2390)	23613 (2668)	
8 (30)	14	14	14	13	9	8	
<u>, , , , , , , , , , , , , , , , , , , </u>	2431 (275)	7205 (814)	11944 (1350)	16538 (1869)	20733 (2343)	23564 (2663)	
10 (38)	17	17	16	16	13	8	
	1535 (173)	6398 (723)	11171 (1262)	15886 (1795)	20232 (2286)	23588 (2665)	
12 (45)	21	21	21	20	17	12	
	587 (66)	5479 (619)	10221 (1155)	15063 (1702)	19519 (2206)	23333 (2637)	
14 (53)	```	24	24	23	21	13 1	
		4391 (496)	9009 (1018)	14046 (1587)	18645 (2107)	22777 (2574)	
16 (61)		28	28	27	26	20	
		3257 (368)	8052 (910)	12973 (1466)	17527 (1980)	21866 (2471)	
18 (68)		32	32	31	30	26	
- (/		1991 (225)	6686 (755)		16449 (1859)		
20 (76)		36	36	36	35	30	
		628 (71)	5507 (622)		14885 (1682)		
22 (83)		39	39	39	38	36	
/			3794 (429)	8704 (984)	13665 (1544)	18291 (2067)	
24 (91)			43	43	42	40	
()			3129 (354)	7883 (891)		17445 (1971)	
25 (95)			45	45	45	43	
				3803 (430)	8485 (959)	13207 (1492)	
30 (114)				5803 (430) 54	54 54	53	
30 (114)				34	34	1 33	
Theo. Torque	E094 (E74)	40407 (4440)	45054 (4700)	20224 (2200)	05440 (0070)	20502 (2447)	35585 (4021)

Areas within white represent
maximum motor efficiencies.

DO NOT operate at maximum pressure and maximum flow simultaneously.

Torque, lb-in (Nm) Speed, RPM

Tested at 129°F with an oil viscosity of 213 SUS

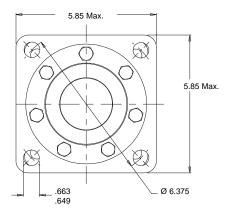
Note: Performance data is typical. Performance of production units varies slightly from one motor to another.

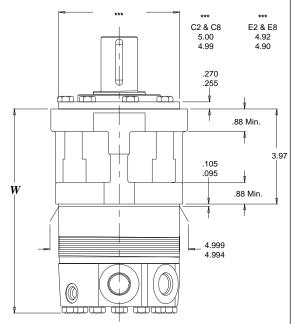


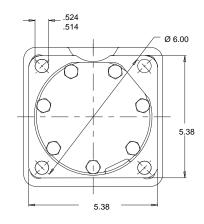
C2 E2 C8 E8

Standard Mount 5" Pilot End Ports Standard Mount 125mm Pilot End Ports

Standard Mount 5" Pilot Side Ports Standard Mount 125mm Pilot Side Ports





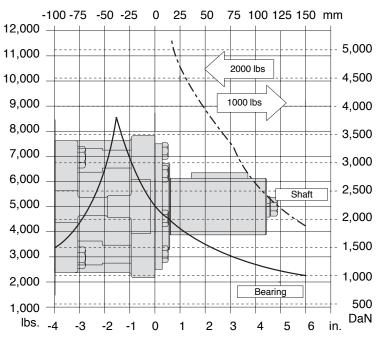


ALLOWABLE BEARING AND SHAFT LOADS

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 located on page 24.

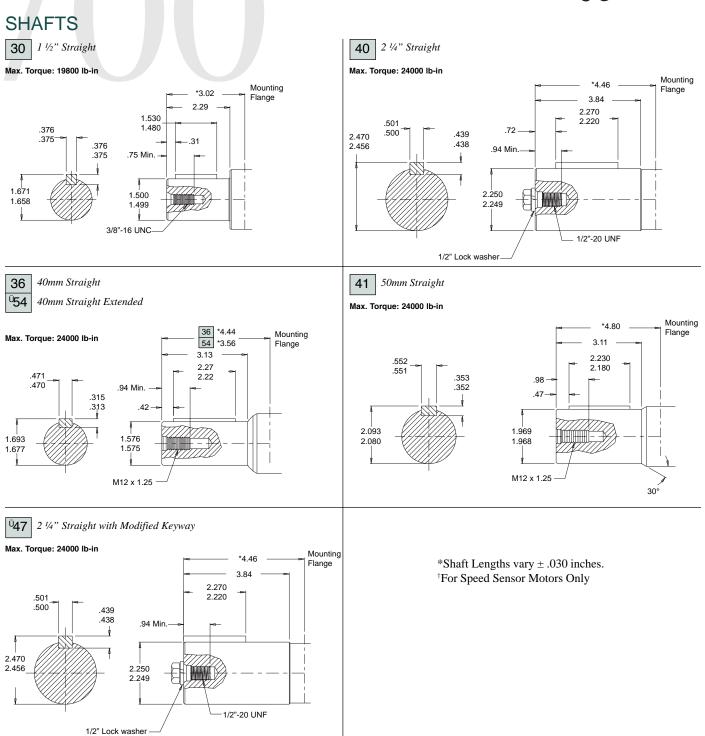
TECHNICAL

STANDARD

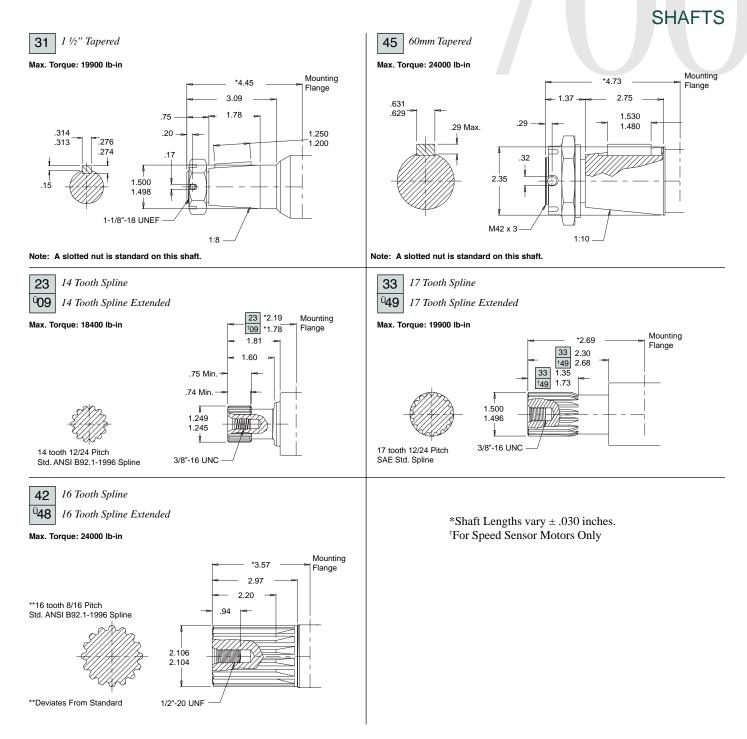


Wheel Mount		
	W	Weight
Code	in	lbs
300	8.25	44.6
375	8.50	45.8
470	8.80	47.1
540	9.04	48.2
750	9.75	51.3
930	10.35	53.8
1K1	10.75	55.7
1K5	12.25	62.5
2K1	14.25	71.3
DT motor weights vary ±3 lbs depending upon motor configuration. Subtract .11 in. from W for motors using		









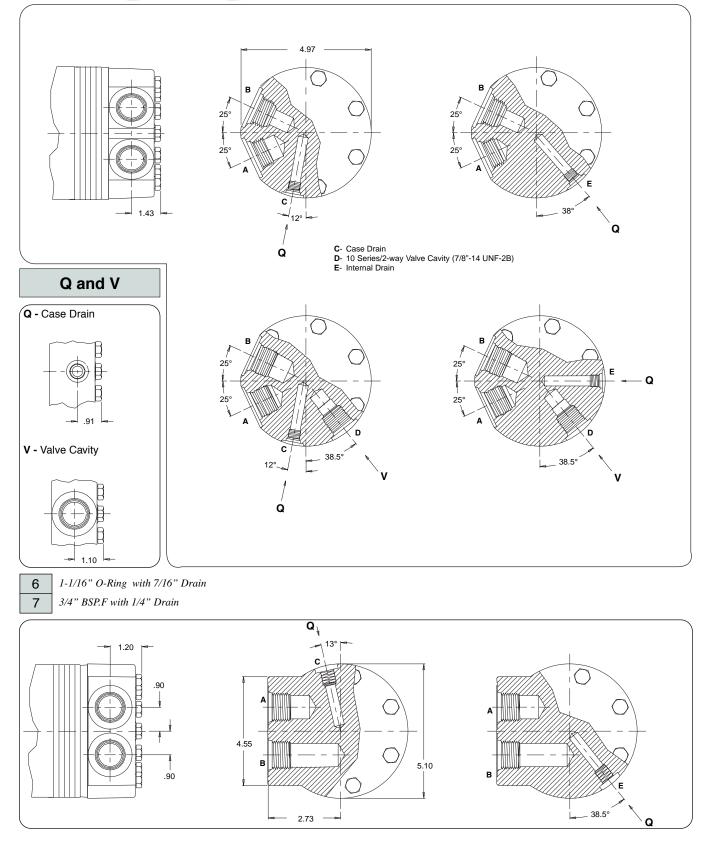


PORTING



1-1/16" O-Ring with 7/16" Drain 3/4" BSP.F with 1/4" Drain

SIDE PORTS



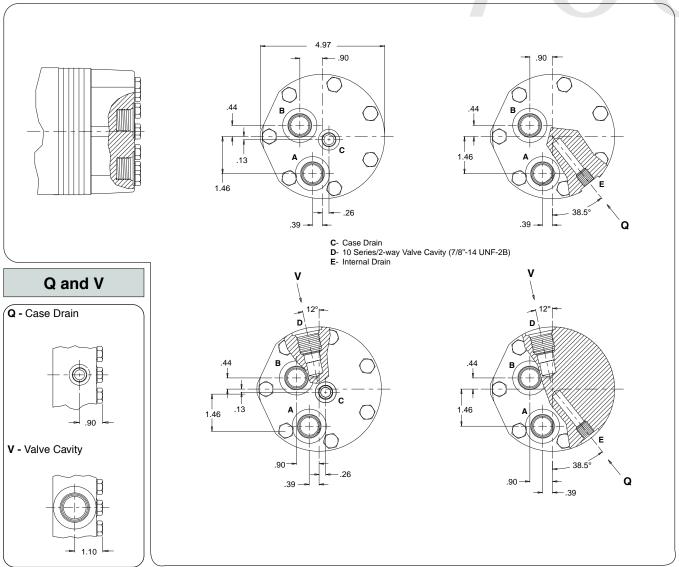


1

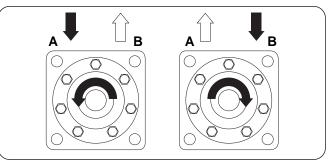
7/8" O-Ring with 7/16" Drain



END PORTS



DT ROTATION SELECTION





2500 psi Relief Valve

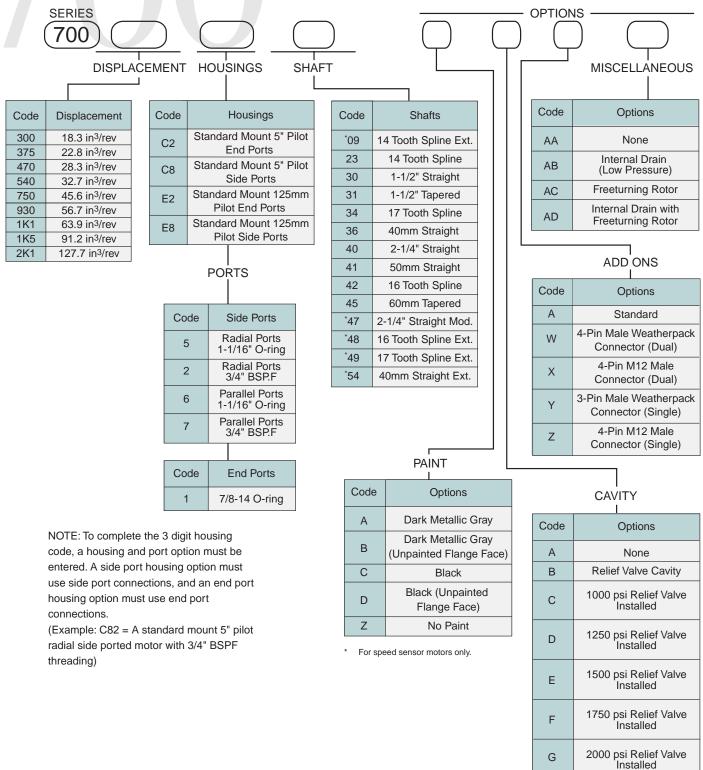
Installed

3000 psi Relief Valve Installed

J

L

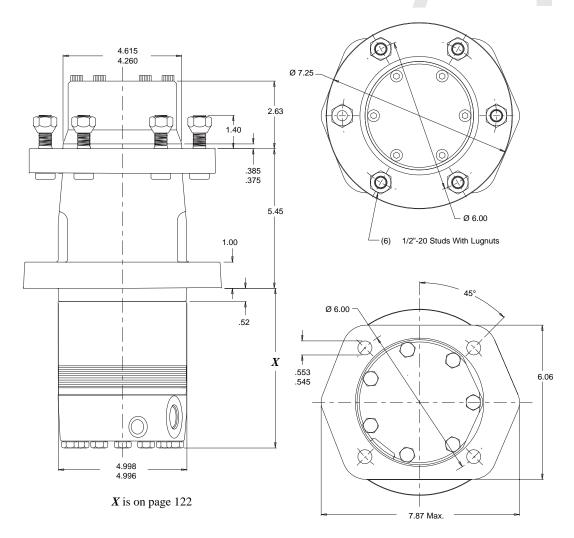
ORDERING INFORMATION





W24-Hole End PortsW84-Hole Side Ports

HOUSINGS



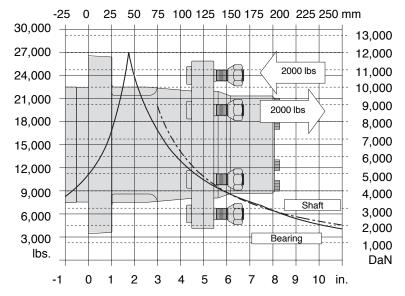
Note: The DT40 Series motor is not available with the internal drain option. Drain line pressure must be maintained below 25 psi. A dedicated line from the motor drain port to the reservoir is recommended.



TECHNICAL ALLOWABLE BEARING AND SHAFT LOADS

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 located on page 24.

DT40



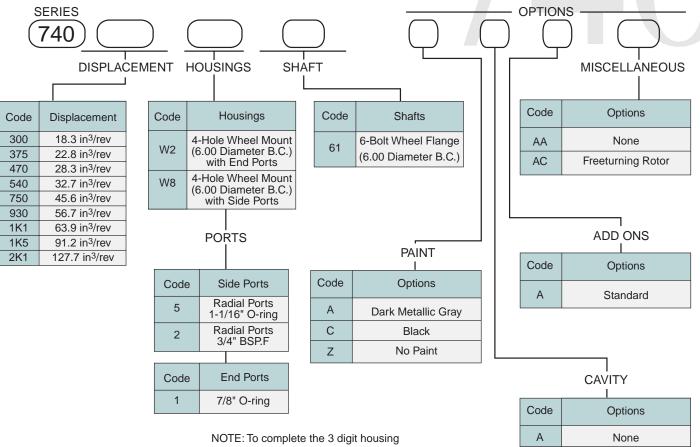
LENGTHAND WEIGHT TABLES		
Wheel Mount		
Code	X in	Weight Ibs
300	4.74	62.6
375	4.99	63.8
470	5.29	65.1
540	5.53	66.2
750	6.24	69.2
930	6.84	71.8
1K1	7.24	73.7
1K5	8.74	80.5
2K1	10.74	89.3

DT motor weights vary ±3 lbs depending upon motor configuration. Subtract .11 in. from X for motors using the 1, 2 or 5 Endcover.

(LENGTH AND WEIGHT TABLES



ORDERING INFORMATION



code, a housing and port option must be entered. A side port housing option must use side port connections, and an end port housing option must use end port connections.

(Example: W21 = A 4-Hole wheel mount end ported motor with 7/8" threading.)

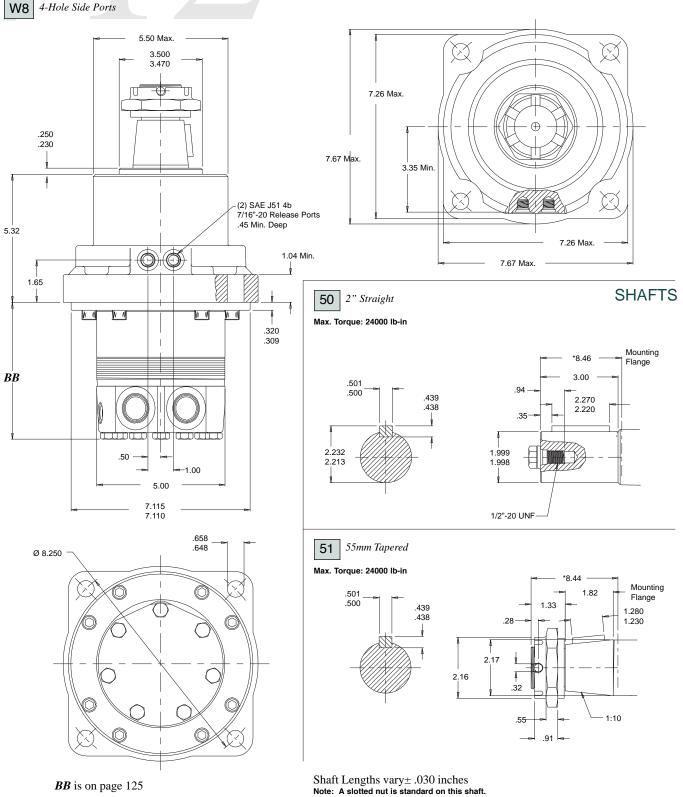
CAVITY	
Code	Options
А	None
В	Relief Valve Cavity
С	1000 psi Relief Valve Installed
D	1250 psi Relief Valve Installed
E	1500 psi Relief Valve Installed
F	1750 psi Relief Valve Installed
G	2000 psi Relief Valve Installed
J	2500 psi Relief Valve Installed
L	3000 psi Relief Valve Installed



HOUSING

W2 4-Hole End Ports

4-Hole Side Ports

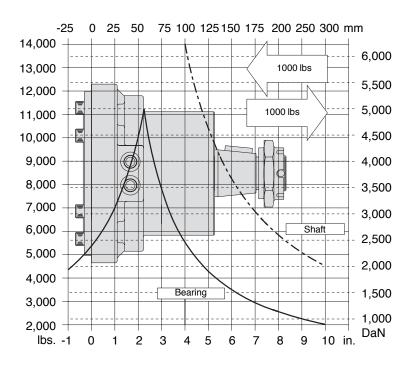


CAUTION: It is vital that all operating recommendations on page 43 be followed. Failure to do so could result in injury or death.



ALLOWABLE BEARING AND SHAFT LOADS

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 located on page 24.



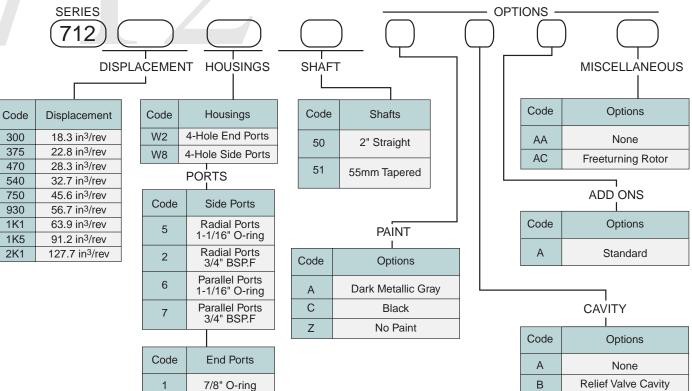
LENGTH AND WEIGHT TABLES

Code	BB in	Weight Ibs
300	4.54	60.0
375	4.79	61.2
470	5.09	62.5
540	5.33	63.6
750	6.04	66.7
930	6.64	69.2
1K1	7.04	71.1
1K5	8.54	77.9
2K1	10.54	86.7

Rated brake torque	14,000 lb-in
Initial release pressure	
Full release pressure	
Maximum release pressure	
Release volume	0.8-1.0 cu.in.
	,



ORDERING INFORMATION



NOTE: To complete the 3 digit housing code, a housing and port option must be entered. A side port housing option must use side port connections, and an end port housing option must use end port connections.

(Example: W82 = A 4-Hole radial ported motor with 3/4" BSP.F threading)

CAVITY		
Code	Options	
А	None	
В	Relief Valve Cavity	
С	1000 psi Relief Valve Installed	
D	1250 psi Relief Valve Installed	
E	1500 psi Relief Valve Installed	
F	1750 psi Relief Valve Installed	
G	2000 psi Relief Valve Installed	
J	2500 psi Relief Valve Installed	
L	3000 psi Relief Valve Installed	