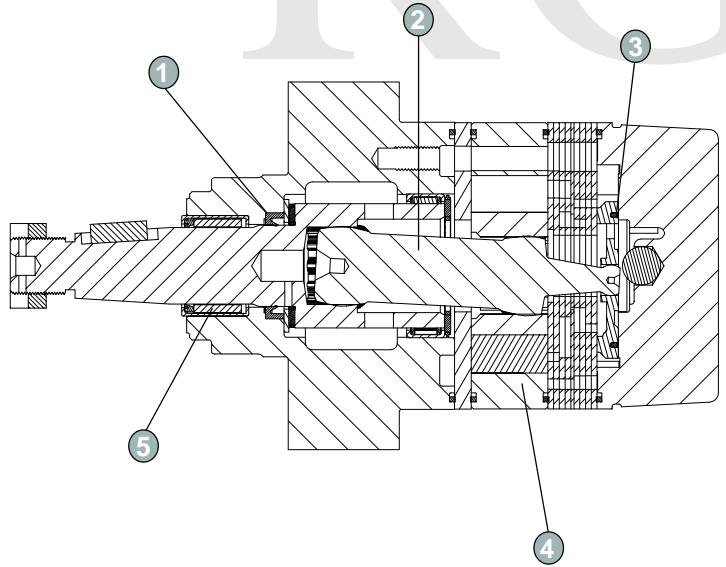


RG

FEATURES

- 1 **High Pressure Buna® Shaft Seal** offers superior seal life and performance and eliminates the need for a case drain.
- 2 **Heavy-Duty Drive Link** receives full flow lubrication to provide long life.
- 3 **Rubber Energized Steel Face Seal** does not extrude or melt under high pressure or high temperature.
- 4 **Roller Stator® Motor Design** increases efficiency and life by using roller contact versus solid, sliding contact design.
- 5 **Needle Roller Bearing** is in optimum location to allow load to be placed as close to the center line of bearing as possible.



The White Hydraulics tradition of providing motors that excel in demanding applications continues with the RG series. RG motors provide an especially solid platform for any medium-duty application where sideload may present a concern. The RG incorporates our patented Roller Stator® design which reduces friction and extends motor life. With displacements ranging from 2.5 - 19.7 in³/rev. (41 - 322 cc/rev.), this motor is made to satisfy a variety of applications. Designed to industry standard mounting configurations, the RG is a perfect fit when you require longer life and improved motor performance.



SPECIFICATIONS

Code	Displacement in ³ /rev.	Max. Speed (RPM) - 1)Cont. 2)Inter.		Max. Flow (GPM)- 1)Cont. 2)Inter.		Max. Torque (lb-in) - 1)Cont. 2)Inter.		Max. Pressure (PSI)- 1)Cont. 2)Inter. 3)Peak		
		1	2	1	2	1	2	1	2	3
040	2.5	830	1020	9	11	630	870	2000	2750	3000
045	2.7	770	940	9	11	685	955	2000	2750	3000
060	3.6	760	950	12	15	950	1320	2000	2750	3000
070	4.3	650	810	12	15	1120	1560	2000	2750	3000
090	5.4	520	650	12	15	1430	1985	2000	2750	3000
100	6.1	450	570	12	15	1640	2275	2000	2750	3000
130	7.9	350	440	12	15	2135	2960	2000	2750	3000
160	9.8	280	350	12	15	2690	3730	2000	2750	3000
200	12.2	220	280	12	15	3350	4650	2000	2750	3000
230	14.1	240	330	15	20	3380	4680	1750	2400	2900
320	19.7	175	235	15	20	4050	5300	1500	1950	2450

PERFORMANCE

040 2.5 in³/rev.

Flow GPM (LPM)	Pressure psi (bars)			Max. Cont.	Max. Inter.	Theo. RPM
	500 (35)	1000 (69)	1500 (104)	2000 (138)	2750 (190)	
0.5 (2)	117 (13) 37	259 (29) 25	401 (45) 4			47
1 (4)	126 (14) 85	276 (31) 72	427 (48) 51	577 (65) 21		93
2 (8)	134 (15) 179	293 (33) 166	453 (51) 144	612 (69) 113	852 (96) 49	186
3 (11)	136 (15) 273	299 (34) 260	462 (52) 237	625 (71) 205	869 (98) 138	279
4 (15)	136 (15) 368	300 (34) 354	464 (52) 330	628 (71) 296	874 (99) 227	372
5 (19)	134 (15) 462	298 (34) 448	462 (52) 423	626 (71) 388	872 (98) 316	464
7 (27)	129 (15) 650	291 (33) 636	454 (51) 609	617 (70) 572	861 (97) 493	650
Max. Cont.	122 (14) 835	283 (32) 824	445 (50) 796	607 (69) 755	849 (96) 671	835
Max. Inter.	115 (13) 1021	276 (31) 1012	437 (49) 982	599 (68) 939	841 (95) 849	1021
Theo.Torque	198 (22)	396 (45)	595 (67)	793 (90)	1090 (123)	

Areas within white represent maximum motor efficiencies.

045 2.7 in³/rev.

Flow GPM (LPM)	Pressure psi (bars)			Max. Cont.	Max. Inter.	Theo. RPM
	500 (35)	1000 (69)	1500 (104)	2000 (138)	2750 (190)	
0.5 (2)	131 (15) 34	285 (32) 23	438 (50) 4			43
1 (4)	140 (16) 78	303 (34) 66	467 (53) 47	631 (71) 19		86
2 (8)	148 (17) 165	322 (36) 153	496 (56) 133	669 (76) 104	930 (105) 45	172
3 (11)	151 (17) 252	328 (37) 240	506 (57) 219	683 (77) 189	950 (107) 127	257
4 (15)	150 (17) 339	329 (37) 326	508 (57) 304	687 (78) 273	955 (108) 209	343
5 (19)	147 (17) 426	326 (37) 413	505 (57) 390	685 (77) 358	953 (108) 291	428
7 (27)	140 (16) 599	318 (36) 586	496 (56) 562	674 (76) 527	942 (106) 455	599
Max. Cont.	131 (15) 770	308 (35) 760	485 (55) 734	662 (75) 696	928 (105) 619	770
Max. Inter.	121 (14) 942	298 (34) 933	475 (54) 906	652 (74) 866	918 (104) 783	942
Theo.Torque	215 (24)	430 (49)	645 (73)	860 (97)	1182 (134)	

Torque, lb-in (Nm)
Speed, RPM

DO NOT operate at maximum pressure and maximum flow simultaneously.

060 3.6 in³/rev.

Flow GPM (LPM)	Pressure psi (bars)			Max. Cont.	Max. Inter.	Theo. RPM
	500 (35)	1000 (69)	1500 (104)	2000 (138)	2750 (190)	
0.5 (2)	191 (22) 26	400 (45) 17	608 (69) 3			32
1 (4)	203 (23) 58	425 (48) 49	648 (73) 35	870 (98) 14		64
2 (8)	213 (24) 122	450 (51) 113	687 (78) 98	924 (104) 77	1280 (145) 34	127
3 (11)	214 (24) 187	458 (52) 178	702 (79) 162	945 (107) 140	1310 (148) 94	191
4 (15)	211 (24) 251	458 (52) 242	704 (80) 226	950 (107) 203	1320 (149) 155	254
5 (19)	205 (23) 316	453 (51) 306	700 (79) 289	948 (107) 265	1319 (149) 216	318
7 (27)	190 (21) 445	437 (49) 435	685 (77) 417	932 (105) 391	1304 (147) 337	445
9 (34)	170 (19) 572	417 (47) 563	664 (75) 544	912 (103) 517	1282 (145) 459	572
Max. Cont.	136 (15) 762	384 (43) 756	632 (71) 735	879 (99) 705	1251 (141) 641	762
Max. Inter.	98 (11) 952	349 (39) 949	599 (68) 926	850 (96) 893	1227 (139) 824	952
Theo.Torque	290 (33)	580 (65)	869 (98)	1159 (131)	1594 (180)	

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.

070 4.3 in³/rev.

	Pressure		psi (bars)		Max.Cont.	Max.Inter.	Theo. RPM
	500 (35)	1000 (69)	1500 (104)	2000 (138)			
Flow							
GPM (LPM)							
0.5 (2)	231 (26) 22	474 (54) 15	718 (81) 2				28
1 (4)	244 (28) 50	504 (57) 42	765 (86) 30	1025 (116) 12			55
2 (8)	255 (29) 105	534 (60) 97	812 (92) 84	1090 (123) 66	1507 (170) 29		109
3 (11)	256 (29) 160	542 (61) 152	829 (94) 139	1115 (126) 120	1544 (175) 81		164
4 (15)	251 (28) 215	541 (61) 207	831 (94) 193	1121 (127) 174	1557 (176) 133		218
5 (19)	243 (27) 271	535 (60) 262	827 (93) 248	1119 (126) 227	1556 (176) 185		272
7 (27)	222 (25) 381	514 (58) 372	807 (91) 357	1100 (124) 335	1539 (174) 289		381
9 (34)	196 (22) 490	488 (55) 483	781 (88) 466	1073 (121) 442	1512 (171) 393		490
Max. Cont.	149 (17) 653	443 (50) 648	736 (83) 630	1030 (116) 604	1470 (166) 549		653
Max. Inter.	96 (11) 816	393 (44) 813	690 (78) 793	986 (111) 765	1431 (162) 705		816
Theo.Torque	338 (38)	677 (76)	1015 (115)	1354 (153)	1861 (210)		

Areas within white represent maximum motor efficiencies.

Torque, lb-in (Nm)
Speed, RPM

090 5.4 in³/rev.

	Pressure		psi (bars)		Max. Cont.	Max. Inter.	Theo. RPM
	500 (35)	1000 (69)	1500 (104)	2000 (138)			
Flow							
GPM (LPM)							
0.5 (2)	301 (34) 17	609 (69) 12	917 (104) 2				22
1 (4)	318 (36) 39	647 (73) 33	976 (110) 24	1305 (147) 10			44
2 (8)	331 (37) 83	684 (77) 77	1036 (117) 67	1388 (157) 52	1917 (217) 23		87
3 (11)	331 (37) 127	694 (78) 121	1058 (120) 110	1421 (161) 95	1966 (222) 64		130
4 (15)	323 (37) 171	692 (78) 165	1061 (120) 154	1430 (162) 138	1984 (224) 106		173
5 (19)	312 (35) 215	683 (77) 208	1055 (119) 197	1427 (161) 181	1984 (224) 147		216
7 (27)	280 (32) 303	654 (74) 296	1028 (116) 284	1402 (158) 266	1962 (222) 230		303
9 (34)	242 (27) 389	616 (70) 383	990 (112) 370	1365 (154) 351	1926 (218) 312		389
Max. Cont.	173 (20) 519	549 (62) 515	925 (105) 500	1301 (147) 480	1864 (211) 436		519
Max. Inter.	94 (11) 648	473 (53) 646	853 (96) 630	1232 (139) 608	1801 (203) 560		648
Theo.Torque	426 (48)	852 (96)	1278 (144)	1704 (193)	2343 (265)		

DO NOT 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.

RGG

PERFORMANCE



100 6.1 in³/rev.

Flow GPM (LPM)	Pressure psi (bars)		Max.Cont.	Max.Inter.	Theo. RPM
	500 (35)	1000 (69)			
0.5 (2)	350 (40) 15	701 (79) 10	1052 (119) 2		19
1 (4)	369 (42) 35	744 (84) 29	1120 (127) 21	1496 (169) 9	38
2 (8)	383 (43) 73	786 (89) 68	1189 (134) 59	1592 (180) 46	76
3 (11)	382 (43) 112	798 (90) 106	1214 (137) 97	1630 (184) 83	114
4 (15)	372 (42) 150	795 (90) 144	1218 (138) 135	1641 (185) 121	152
5 (19)	358 (40) 189	784 (89) 183	1211 (137) 173	1637 (185) 158	190
7 (27)	320 (36) 266	749 (85) 260	1178 (133) 249	1607 (182) 233	266
9 (34)	273 (31) 341	703 (79) 336	1133 (128) 325	1564 (177) 308	341
Max. Cont.	190 (21) 455	622 (70) 451	1053 (119) 439	1485 (168) 421	455
Max. Inter.	93 (10) 569	528 (60) 566	964 (109) 553	1399 (158) 533	569
Theo.Torque	486 (55)	971 (110)	1457 (165)	1943 (220)	2671 (302)

Areas within white represent maximum motor efficiencies.

130 7.9 in³/rev.

Flow GPM (LPM)	Pressure psi (bars)		Max.Cont.	Max.Inter.	Theo. RPM
	500 (35)	1000 (69)			
0.5 (2)	463 (52) 12	917 (104) 8	1370 (155) 1		15
1 (4)	487 (55) 27	972 (110) 23	1458 (165) 16	1943 (220) 7	30
2 (8)	505 (57) 57	1026 (116) 53	1548 (175) 46	2069 (234) 36	59
3 (11)	502 (57) 87	1041 (118) 82	1580 (179) 75	2120 (240) 65	89
4 (15)	488 (55) 116	1037 (117) 112	1586 (179) 105	2134 (241) 94	118
5 (19)	467 (53) 146	1021 (115) 142	1576 (178) 134	2130 (241) 123	147
7 (27)	413 (47) 206	972 (110) 201	1531 (173) 193	2091 (236) 181	206
9 (34)	347 (39) 265	908 (103) 261	1469 (166) 252	2030 (229) 239	265
Max. Cont.	228 (26) 353	792 (89) 350	1355 (153) 341	1919 (217) 326	353
Max. Inter.	89 (10) 441	657 (74) 440	1224 (138) 429	1792 (202) 414	441
Theo. Torque	626 (71)	1252 (141)	1877 (212)	2503 (283)	3442 (389)

Torque, lb-in (Nm)
Speed, RPM

DO NOT 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.

160 9.8 in³/rev.

Flow GPM (LPM)	Pressure psi (bars)			Max. Cont.	Max. Inter.	Theo. RPM
	500 (35)	1000 (69)	1500 (104)	2000 (138)	2750 (190)	
0.5 (2)	590 (67) 9	1158 (131) 6	1726 (195) 1			12
1 (4)	620 (70) 21	1228 (139) 18	1836 (207) 13	2445 (276) 5		24
2 (8)	641 (72) 45	1295 (146) 42	1949 (220) 36	2604 (294) 29	3585 (405) 12	47
3 (11)	636 (72) 69	1313 (148) 66	1991 (225) 60	2668 (301) 52	3684 (416) 35	71
4 (15)	617 (70) 93	1307 (148) 90	1997 (226) 84	2687 (304) 75	3722 (421) 57	94
5 (19)	590 (67) 117	1287 (145) 113	1984 (224) 107	2682 (303) 98	3728 (421) 80	118
7 (27)	518 (59) 165	1222 (138) 161	1927 (218) 154	2631 (297) 145	3688 (417) 125	165
9 (34)	429 (49) 212	1137 (128) 209	1845 (208) 202	2552 (288) 191	3614 (408) 170	212
Max. Cont.	271 (31) 282	982 (111) 280	1693 (191) 272	2404 (272) 261	3471 (392) 237	282
Max. Inter.	85 (10) 353	800 (90) 351	1516 (171) 343	2231 (252) 331	3305 (373) 305	353
Theo. Torque	783 (88)	1565 (177)	2348 (265)	3131 (354)	4305 (486)	

Areas within white represent maximum motor efficiencies.

200 12.2 in³/rev.

Flow GPM (LPM)	Pressure psi (bars)			Max. Cont.	Max. Inter.	Theo. RPM
	500 (35)	1000 (69)	1500 (104)	2000 (138)	2750 (190)	
0.5 (2)	742 (84) 8	1447 (164) 5	2152 (243) 1			10
1 (4)	778 (88) 17	1534 (173) 15	2289 (259) 10	3045 (344) 4		19
2 (8)	804 (91) 37	1617 (183) 34	2430 (275) 29	3244 (367) 23	4464 (504) 10	38
3 (11)	796 (90) 56	1639 (185) 53	2482 (280) 48	3325 (376) 42	4589 (519) 28	57
4 (15)	772 (87) 75	1631 (184) 72	2490 (281) 67	3349 (378) 61	4638 (524) 46	76
5 (19)	736 (83) 94	1605 (181) 91	2474 (280) 86	3343 (378) 79	4646 (525) 64	95
7 (27)	643 (73) 133	1522 (172) 130	2400 (271) 124	3279 (371) 117	4597 (519) 101	133
9 (34)	528 (60) 171	1411 (159) 168	2295 (259) 163	3178 (359) 154	4503 (509) 137	171
Max. Cont.	322 (36) 228	1210 (137) 226	2098 (237) 220	2985 (337) 210	4317 (488) 192	228
Max. Inter.	80 (9) 285	973 (110) 283	1865 (211) 277	2758 (312) 267	4097 (463) 246	285
Theo. Torque	971 (110)	1941 (219)	2912 (329)	3882 (439)	5338 (603)	

Torque, lb-in (Nm)
Speed, RPM

DO NOT 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.

PERFORMANCE

230 14.1 in³/rev.

Flow GPM (LPM)	Pressure psi (bars)		Max. Cont.		Max. Inter.		Theo. RPM
	500 (35)	1000 (69)	1500 (104)	1750 (121)	2000 (138)	2400 (166)	
0.5 (2)	864 (98) 7	1678 (190) 4	2493 (282) 1				9
1 (4)	905 (102) 15	1779 (201) 13	2652 (300) 9	3089 (349) 7	3526 (398) 4		17
2 (8)	934 (106) 32	1875 (212) 29	2816 (318) 25	3286 (371) 23	3757 (425) 20	4509 (510) 14	33
3 (11)	925 (104) 48	1900 (215) 46	2876 (325) 42	3363 (380) 39	3851 (435) 36	4631 (523) 30	50
4 (15)	895 (101) 65	1890 (214) 63	2885 (326) 58	3382 (382) 56	3880 (438) 52	4675 (528) 46	66
5 (19)	853 (96) 82	1860 (210) 79	2866 (324) 75	3369 (381) 72	3872 (438) 69	4677 (529) 62	83
7 (27)	743 (84) 115	1761 (199) 112	2780 (314) 108	3289 (372) 105	3798 (429) 101	4612 (521) 94	115
9 (34)	607 (69) 148	1631 (184) 146	2655 (300) 141	3167 (358) 137	3679 (416) 134	4498 (508) 126	148
12 (45)	364 (41) 197	1393 (157) 196	2422 (274) 190	2936 (332) 186	3451 (390) 182	4274 (483) 174	197
Max. Cont. 15 (57)	76 (9) 247	1111 (125) 245	2145 (242) 240	2662 (301) 236	3180 (359) 231	4007 (453) 222	247
Max. Inter. 20 (76)		551 (62) 328	1600 (181) 322	2124 (240) 317	2648 (299) 312	3487 (394) 302	329
Theo. Torque	1121 (127)	2242 (253)	3363 (380)	3924 (443)	4484 (507)	5381 (608)	

Torque, lb-in (Nm)
Speed, RPM

320 19.7 in³/rev.

Flow GPM (LPM)	Pressure psi (bars)		Max. Cont.		Max. Inter.		Theo. RPM
	500 (35)	1000 (69)	1500 (104)	1950 (135)			
1 (4)	1280 (145) 11	2501 (283) 9					12
2 (8)	1319 (149) 23	2635 (298) 21	3951 (447) 18	5136 (580) 15			24
3 (11)	1304 (147) 35	2670 (302) 33	4036 (456) 30	5265 (595) 26			36
4 (15)	1260 (142) 47	2654 (300) 45	4049 (457) 42	5303 (599) 38			48
5 (19)	1199 (135) 59	2610 (295) 57	4021 (454) 54	5291 (598) 50			59
7 (27)	1039 (117) 82	2468 (279) 81	3897 (440) 77	5184 (586) 73			83
9 (34)	841 (95) 106	2279 (258) 104	3717 (420) 101	5012 (566) 96			106
12 (45)	485 (55) 142	1931 (218) 140	3377 (382) 136	4678 (529) 131			142
Max. Cont. 15 (57)	64 (7) 177	1517 (171) 176	2970 (336) 172	4277 (483) 166			177
Max. Inter. 20 (76)		692 (78) 235	2160 (244) 231	3480 (393) 224			236
Theo. Torque	1564 (177)	3129 (354)	4693 (530)	6102 (689)			

Areas within white represent maximum motor efficiencies.

DO NOT operate at maximum pressure and maximum flow simultaneously.

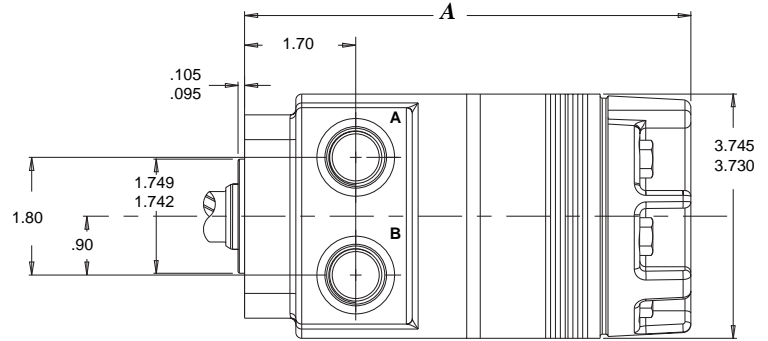
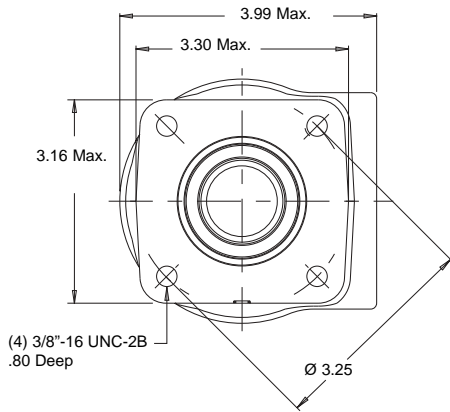
Tested at 129°F with an oil viscosity of 213 SUS

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

4-HOLE FLANGE, SAE A FLANGE, & WHEEL MOUNT

- F30** 4-Hole Front Ports 1/2" NPT
- F31** 4-Hole Front Ports 7/8" O-Ring

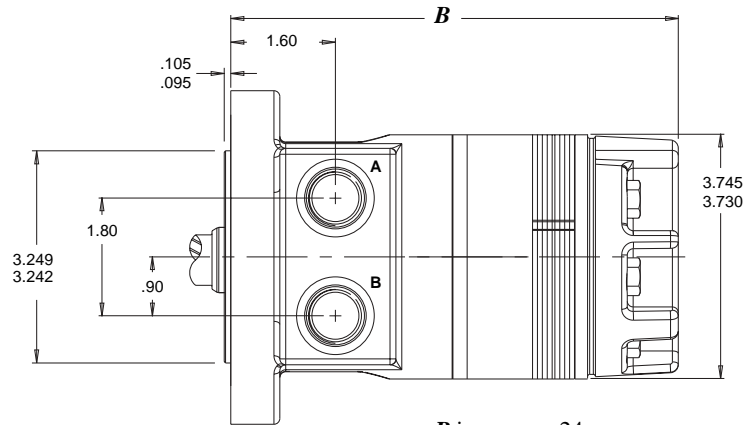
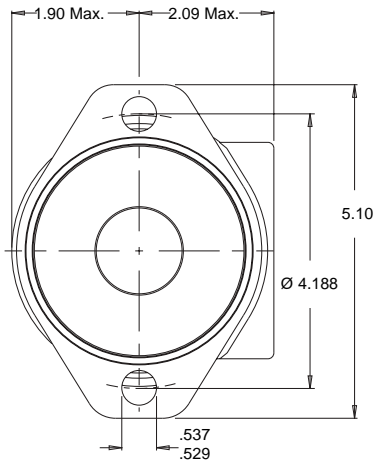
- F38** 4-Hole Front Ports 1/2" BSP.F
- F26** 4-Hole End Ports 3/4" O-Ring (See page 25 for porting dimensions.)



A is on page 24

- A10** 2-Hole Front Ports 1/2" NPT
- A11** 2-Hole Front Ports 7/8" O-Ring

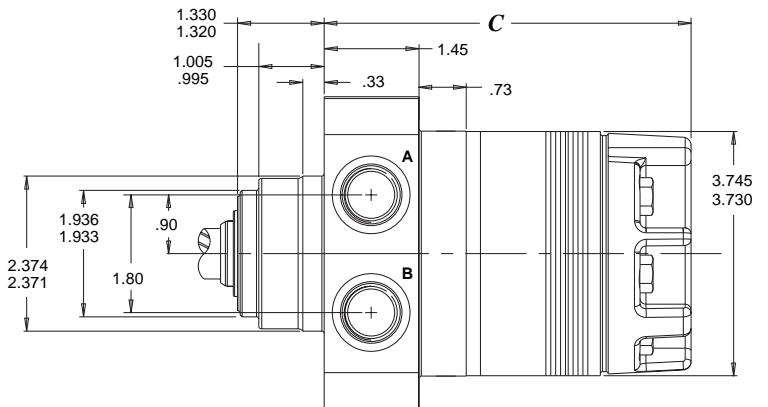
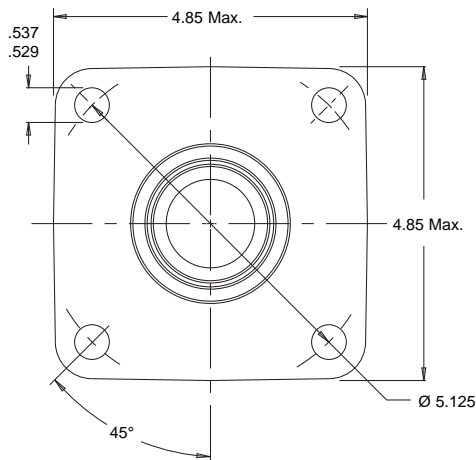
- A18** 2-Hole Front Ports 1/2" BSP.F
- A06** 2-Hole End Ports 3/4" O-Ring (See page 25 for porting dimensions.)



B is on page 24

- W30** 4-Hole Front Ports 1/2" NPT
- W31** 4-Hole Front Ports 7/8" O-Ring

- W38** 4-Hole Front Ports 1/2" BSP.F
- W26** 4-Hole End Ports 3/4" O-Ring (See page 25 for porting dimensions.)



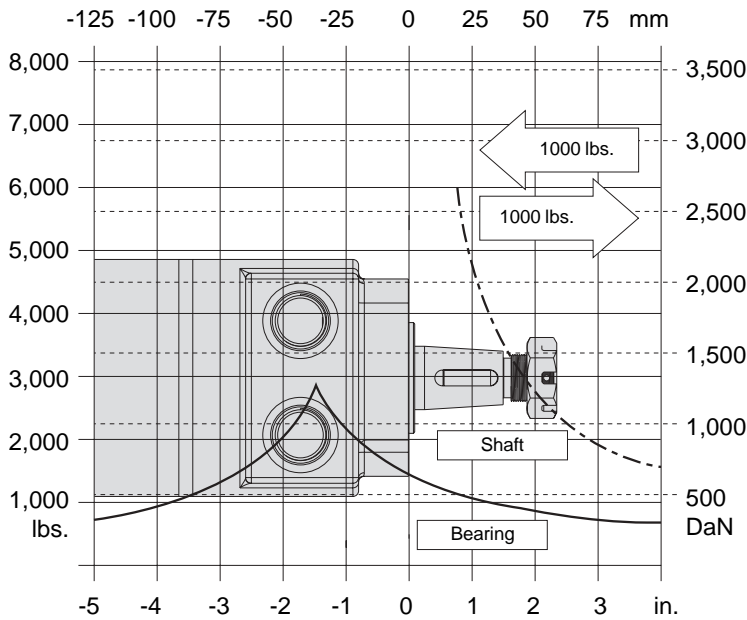
C is on page 25

TECHNICAL

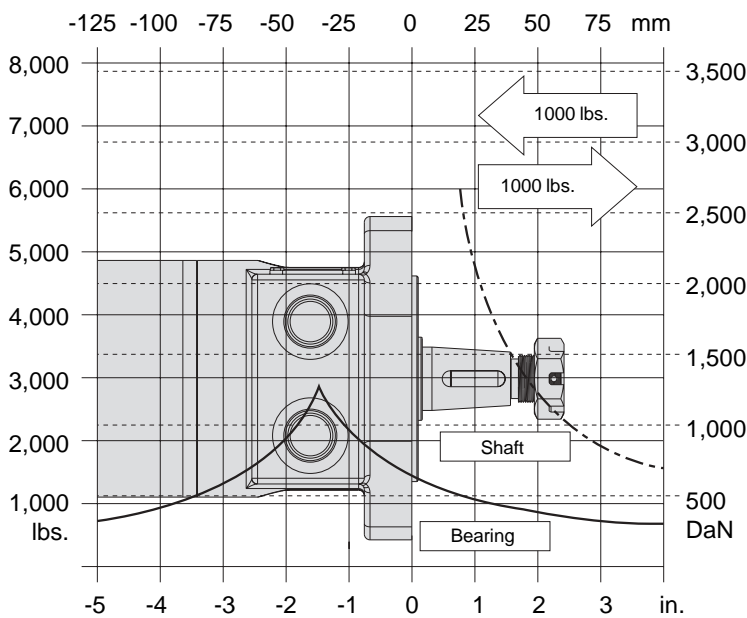
ALLOWABLE BEARING AND SHAFT LOADS

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 below.

4-HOLE



SAE A FLANGE



LENGTH AND WEIGHT TABLES

4-Hole Square Mount

Code	A in.	Weight lbs.
040	6.16	15.2
045	6.19	15.3
060	6.31	15.6
070	6.38	15.7
090	6.52	16.1
100	6.62	16.3
130	6.84	16.8
160	7.09	17.3
200	7.39	18.0
230	7.63	18.5
320	8.34	20.1

SAE A Flange

Code	B in.	Weight lbs.
040	6.16	15.9
045	6.19	16.0
060	6.31	16.3
070	6.38	16.4
090	6.52	16.8
100	6.62	17.0
130	6.84	17.5
160	7.09	18.0
200	7.39	18.7
230	7.63	19.2
320	8.34	20.8

RG motor weights vary ± 1 lbs. depending upon motor configuration.

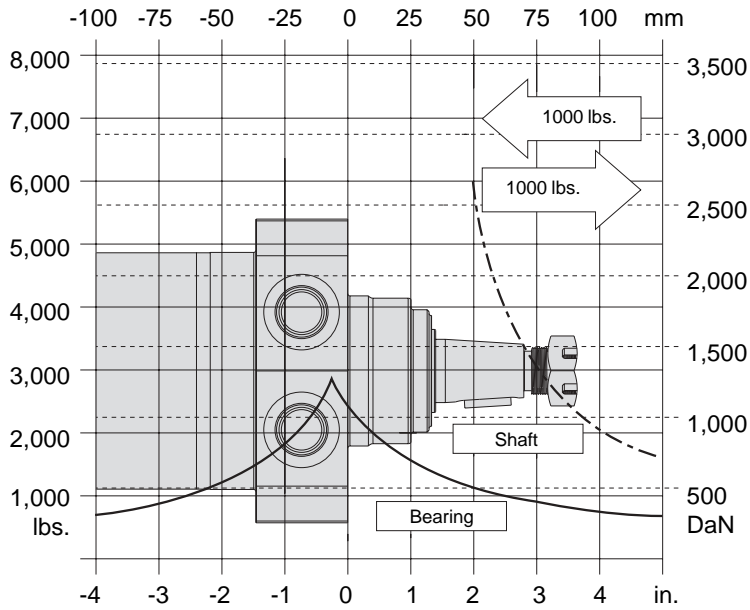
BEARING LOAD MULTIPLICATION FACTOR TABLE

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	0.50

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.

WHEEL MOUNT

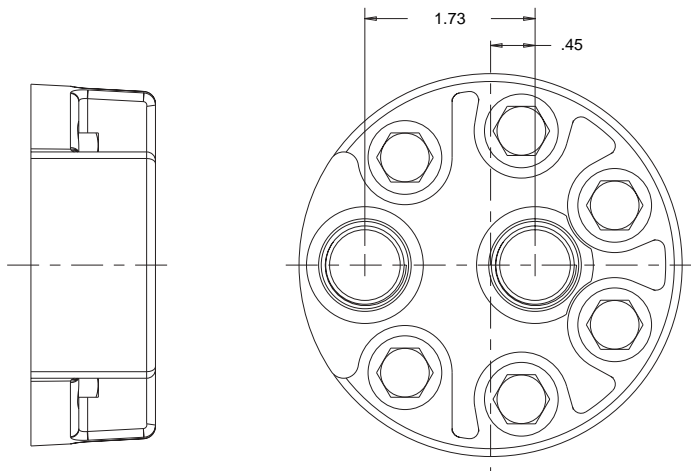


LENGTH AND WEIGHT TABLES

Wheel Mount		
Code	C in.	Weight lbs.
040	4.93	16.7
045	4.95	16.8
060	5.07	17.0
070	5.15	17.2
090	5.29	17.5
100	5.39	17.7
130	5.61	18.2
160	5.86	18.8
200	6.16	19.5
230	6.40	20.0
320	7.11	21.6

RG motor weights vary ± 1 lbs (0.45) kg depending upon motor configuration.

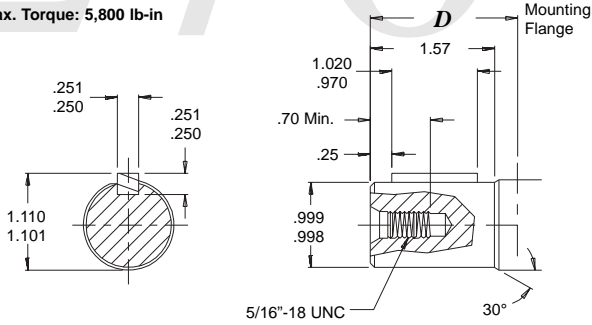
PORTING DIMENSIONS - REAR PORTED MOTOR



SHAFTS

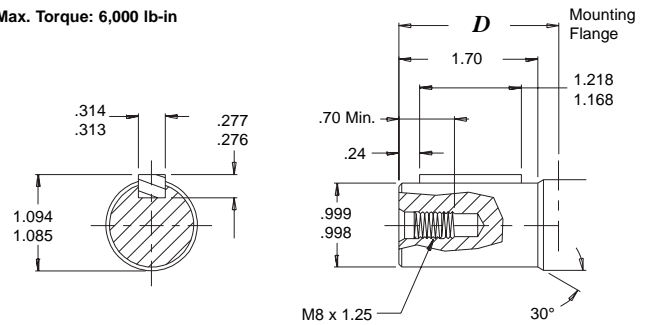
10 1" Straight

Max. Torque: 5,800 lb-in



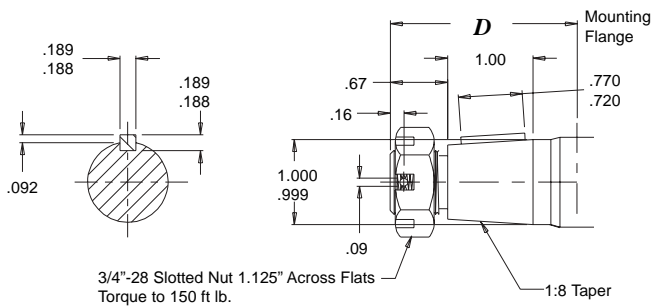
12 25mm Straight

Max. Torque: 6,000 lb-in



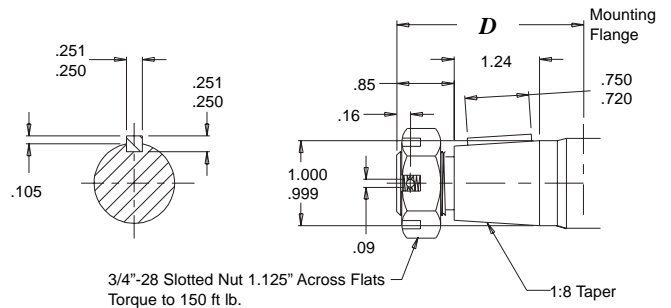
13 1" Tapered

Max. Torque: 5,800 lb-in



14 1" Tapered Extended

Max. Torque: 5,800 lb-in



SHAFT LENGTHS

D	Code	SAE A Flange in.	4-Hole Flange in.	Wheel Mount in.
	10	1.73	1.73	2.96
	12	1.90	1.90	3.13
	13	2.17	2.17	3.40
	14	2.37	2.37	3.60

ORDERING INFORMATION

SERIES

270

OPTIONS

DISPLACEMENT

HOUSING

SHAFT

MISCELLANEOUS

Code	Displacements
040	2.5 in ³ /rev.
045	2.7 in ³ /rev.
060	3.6 in ³ /rev.
070	4.3 in ³ /rev.
090	5.4 in ³ /rev.
100	6.1 in ³ /rev.
130	7.9 in ³ /rev.
160	9.8 in ³ /rev.
200	12.2 in ³ /rev.
230	14.1 in ³ /rev.
320	19.7 in ³ /rev.

Code	Housings
A06	2-Hole 3/4" O-Ring End Ports
A10	2-Hole 1/2" NPT Front Ports
A11	2-Hole 7/8" O-Ring Front Ports
A18	2-Hole 1/2" BSP.F Front Ports
F26	4-Hole 3/4" O-Ring End Ports
F30	4-Hole 1/2" NPT Front Ports
F31	4-Hole 7/8" O-Ring Front Ports
F38	4-Hole 1/2" BSP.F Front Ports
W26	4-Hole 3/4" O-Ring End Ports
W30	4-Hole 1/2" NPT Front Ports
W31	4-Hole 7/8" O-Ring Front Ports
W38	4-Hole 1/2" BSP.F Front Ports

Code	Shafts
10	1" Straight
12	25mm Straight
13	1" Tapered
14	1" Tapered Ext.

PAINT

Code	Options
A	Dark Metallic Gray
B	Dark Metallic Gray (Unpainted Flange Face)
C	Black
D	Black (Unpainted Flange Face)
Z	No Paint

Code	Options
AA	None

ADD ONS

Code	Options
A	Standard
B	Lock Nut
C	Solid Hex Nut

CAVITY

Code	Options
A	None