

RS 050 Performance Data

		Pressure, psi (bars)						Max. Cont.	Max. Inter.	Theo. RPM
		250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	1500 (104)	1750 (121)	2000 (138)	
Flow GPM (LPM)	0.5 (2)	89 (10) 35	133 (15) 33	223 (25) 26	290 (33) 24	375 (42) 24	435 (49) 12			37
	1 (4)	92 (10) 69	163 (18) 68	253 (29) 68	348 (39) 67	438 (49) 54	523 (59) 49	483 (55) 4		73
	2 (8)	90 (10) 142	181 (20) 140	274 (31) 138	366 (41) 136	464 (52) 127	556 (63) 103	653 (74) 78	690 (78) 34	145
	4 (15)	85 (10) 288	154 (17) 285	251 (28) 283	355 (40) 282	465 (53) 275	572 (65) 258	669 (76) 227	764 (86) 193	289
	Max. Cont.	6 (23)	168 (19) 433	243 (27) 432	342 (39) 430	445 (50) 429	549 (62) 408	656 (74) 380	755 (85) 346	434
		8 (30)	148 (17) 576	243 (27) 574	318 (36) 570	417 (47) 568	526 (59) 554	631 (71) 535		578
	Max. Inter.	10 (38)	119 (13) 718	218 (25) 711	307 (35) 701	429 (48) 700	499 (56) 689	593 (67) 682		722
1 RPM Stall Torque			184 (21)	253 (29)	376 (42)	435 (49)	481 (54)			
Theo. Torque		127 (14)	255 (29)	382 (43)	510 (58)	637 (72)	764 (86)	892 (101)	1019 (115)	

Areas within white represent maximum motor efficiencies.

715 (81) Torque, lb-in (Nm)
748 Speed, RPM

RS 080 Performance Data

		Pressure, psi (bars)						Max. Cont.	Max. Inter.	Theo. RPM
		250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	1500 (104)	1750 (121)	2000 (138)	
Flow GPM (LPM)	0.5 (2)	107 (12) 25	227 (26) 21	341 (39) 20	456 (51) 9	509 (58) 5				26
	1 (4)	110 (12) 50	252 (29) 50	381 (43) 42	522 (59) 35	661 (75) 34	720 (81) 11			51
	2 (8)	122 (14) 100	260 (29) 99	405 (46) 99	560 (63) 93	707 (80) 82	848 (96) 73	973 (110) 48	1016 (115) 20	101
	4 (15)		263 (30) 200	416 (47) 196	574 (65) 193	726 (82) 184	871 (98) 168	1046 (118) 150	1184 (134) 121	201
	6 (23)		252 (28) 301	403 (46) 297	562 (64) 293	721 (82) 287	869 (98) 271	1020 (115) 252	1183 (134) 218	302
	8 (30)		221 (25) 400	379 (43) 399	555 (63) 393	703 (79) 390	860 (97) 375	1014 (115) 355	1172 (132) 330	402
	Max. Cont. 10 (38)			341 (39) 502	502 (57) 500	657 (74) 498	819 (93) 496	980 (111) 472	1135 (128) 443	503
	Max. Inter. 12 (45)			314 (35) 602	446 (50) 600	625 (71) 599	816 (92) 598	932 (105) 580		603
	1 RPM Stall Torque			252 (28)	359 (41)	522 (59)	664 (75)	719 (81)		
	Theo. Torque		183 (21)	366 (41)	549 (62)	732 (83)	916 (103)	1099 (124)	1282 (145)	1465 (166)

Areas within white represent maximum motor efficiencies.

737 (83) Torque, lb-in (Nm)
689 Speed, RPM

RS 090 Performance Data

		Pressure, psi (bars)						Max. Cont.	Max. Inter.	Theo. RPM
		250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	1500 (104)	1750 (121)	2000 (138)	
Flow GPM (LPM)	0.5 (2)	206 (23) 20	376 (43) 19	559 (63) 17	743 (84) 14	864 (98) 10	933 (105) 1			22
	1 (4)		383 (43) 41	566 (64) 40	760 (86) 37	953 (108) 32	1123 (127) 25	1225 (138) 12		43
	2 (8)		388 (44) 85	561 (63) 84	739 (83) 81	937 (106) 75	1121 (127) 66	1336 (151) 51	1495 (169) 31	86
	4 (15)			538 (61) 169	754 (85) 166	920 (104) 159	1134 (128) 149	1309 (148) 133	1484 (168) 115	172
	6 (23)				720 (81) 251	902 (102) 244	1105 (125) 229	1275 (144) 213	1450 (164) 191	257
	8 (30)				686 (78) 338	867 (98) 330	1080 (122) 318	1251 (141) 300	1448 (164) 278	343
	Max. Cont. 10 (38)					824 (93) 417	1004 (113) 406	1210 (137) 386	1422 (161) 365	428
	Max. Inter. 12 (45)					715 (81) 504	766 (87) 491	998 (113) 478		514
	14 (53)						845 (95) 581	1095 (124) 566		599
	1 RPM Stall Torque			235 (27)	427 (48)	583 (66)	721 (81)	883 (100)		
Theo. Torque		215 (24)	430 (49)	645 (73)	860 (97)	1075 (121)	1290 (146)	1505 (170)	1720 (194)	

Areas within white represent maximum motor efficiencies.

1392 (157) Torque, lb-in (Nm)
687 Speed, RPM

RS 100 Performance Data

Flow GPM (LPM)	Pressure, psi (bars)					Max. Cont.	Max. Inter.	Theo. RPM	
	250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	1500 (104)	1750 (121)		2000 (138)
0.5 (2)	221 (25) 17	461 (52) 16	676 (76) 15	870 (98) 12	1020 (115) 7			19	
1 (4)	233 (26) 36	449 (51) 36	680 (77) 34	914 (103) 32	1116 (126) 28	1295 (146) 23	1473 (166) 13	1336 (151) 1	37
2 (8)		433 (49) 72	682 (77) 71	893 (101) 69	1108 (125) 65	1331 (150) 59	1538 (174) 50	1758 (199) 37	74
4 (15)			648 (73) 143	873 (99) 135	1088 (123) 124	1291 (146) 118	1504 (170) 94	1721 (195) 75	147
6 (23)			606 (69) 219	830 (94) 213	1062 (120) 203	1279 (145) 190	1463 (165) 177	1717 (194) 154	220
8 (30)				789 (89) 288	999 (113) 278	1254 (142) 264	1429 (161) 249	1658 (187) 230	294
10 (38)				693 (78) 363	905 (102) 353	1124 (127) 341	1380 (156) 322	1612 (182) 301	367
12 (45)					755 (85) 433	1049 (119) 421	1299 (147) 405	1526 (172) 384	440
14 (53)					746 (84) 507	1040 (118) 497	1198 (135) 484	1250 (141) 465	514
16 (61)						957 (108) 574	1197 (135) 566		587
1 RPM Stall Torque									
		323 (36)	529 (60)	606 (68)	856 (97)	1003 (113)			
Theo. Torque									
	251 (28)	502 (57)	752 (85)	1003 (113)	1254 (142)	1505 (170)	1756 (198)	2006 (227)	

Areas within white represent maximum motor efficiencies.

1609 (182)	Torque, lb-in (Nm)
667	Speed, RPM

RS 110 Performance Data

Flow GPM (LPM)	Pressure, psi (bars)						Max. Cont.	Max. Inter.	Theo. RPM
	250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	1500 (104)	1750 (121)	2000 (138)	
0.5 (2)	227 (26) 16	481 (54) 14	689 (78) 11	888 (100) 7	961 (109) 1				17
1 (4)	253 (29) 33	489 (55) 32	733 (83) 30	974 (110) 26	1183 (134) 20	1356 (153) 10			34
2 (8)		503 (57) 67	727 (82) 64	969 (110) 60	1199 (135) 52	1431 (162) 40	1631 (184) 20	1590 (180) 1	68
4 (15)		479 (54) 135	706 (80) 133	951 (107) 128	1190 (134) 120	1437 (162) 104	1643 (186) 88	1911 (216) 58	136
6 (23)			669 (76) 201	934 (106) 193	1144 (129) 183	1357 (153) 165	1636 (185) 141	1826 (206) 114	204
8 (30)			621 (70) 271	862 (97) 267	1092 (123) 256	1336 (151) 242	1569 (177) 220	1788 (202) 196	272
10 (38)				779 (88) 335	1025 (116) 324	1294 (146) 307	1505 (170) 289	1783 (201) 254	340
12 (45)				764 (86) 405	963 (109) 396	1226 (139) 376	1482 (168) 351	1683 (190) 330	408
Max. Cont. 14 (53)					901 (102) 463	1142 (129) 449	1378 (156) 427	1626 (184) 406	476
16 (61)					844 (95) 535	1075 (121) 523	1297 (147) 505		544
Max. Inter. 18 (68)						984 (111) 595	1205 (136) 579		612
1 RPM Stall Torque									
		395 (45)	493 (56)	788 (89)	946 (107)	1118 (126)			
Theo. Torque									
	271 (31)	541 (61)	812 (92)	1083 (122)	1354 (153)	1624 (184)	1895 (214)	2166 (245)	

Areas within white represent maximum motor efficiencies.

1847 (209)	Torque, lb-in (Nm)
571	Speed, RPM

RS 125 Performance Data

Flow GPM (LPM)	Pressure, psi (bars)						Max. Cont.	Max. Inter.	Theo. RPM
	250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	1500 (104)	1750 (121)		
0.5 (2)	255 (29) 14	534 (60) 12	758 (86) 10	990 (112) 7	1145 (129) 2			15	
1 (4)	251 (28) 29	545 (62) 28	819 (93) 26	1073 (121) 23	1319 (149) 18	1531 (173) 10	1559 (176) 1	30	
2 (8)		537 (61) 58	816 (92) 57	1103 (125) 54	1356 (153) 49	1609 (182) 41	1856 (210) 29	60	
4 (15)		538 (61) 118	797 (90) 115	1084 (123) 108	1338 (151) 99	1602 (181) 84	1860 (210) 65	120	
6 (23)			771 (87) 177	1032 (117) 168	1321 (149) 158	1566 (177) 145	1838 (208) 123	180	
8 (30)			722 (82) 234	987 (112) 229	1257 (142) 215	1548 (175) 203	1781 (201) 186	240	
10 (38)				927 (105) 290	1214 (137) 277	1474 (167) 263	1720 (194) 244	300	
12 (45)				859 (97) 349	1066 (120) 339	1386 (157) 322	1622 (183) 306	360	
Max. Cont. 14 (53)				787 (89) 409	1051 (119) 385	1295 (146) 376	1536 (174) 367	420	
16 (61)					879 (99) 471	1163 (131) 459		480	
Max. Inter. 18 (68)					885 (100) 528	1053 (119) 512		540	
1 RPM Stall Torque		423 (48)	604 (68)	924 (104)	1099 (124)	1333 (151)			
Theo. Torque	307 (35)	613 (69)	920 (104)	1226 (139)	1533 (173)	1839 (208)	2146 (242)		

Areas within white represent maximum motor efficiencies.

1547 (175)	Torque, lb-in (Nm)
646	Speed, RPM

RS 160 Performance Data

Flow GPM (LPM)	Pressure, psi (bars)					Max. Cont.	Max. Inter.	Theo. RPM
	250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	1500 (104)	1750 (121)	
0.5 (2)	281 (32) 11	630 (71) 10	908 (103) 8	1247 (141) 6	1481 (167) 2			12
1 (4)	308 (35) 22	677 (76) 21	983 (111) 20	1245 (141) 20	1615 (182) 16	1867 (211) 11	2070 (234) 3	24
2 (8)	320 (36) 45	694 (78) 45	1023 (116) 44	1403 (159) 42	1707 (193) 39	1974 (223) 34	2279 (257) 27	47
4 (15)		633 (72) 91	1007 (114) 90	1375 (155) 86	1679 (190) 80	1998 (226) 71	2319 (262) 56	93
6 (23)		608 (69) 138	961 (109) 137	1318 (149) 132	1667 (188) 125	1979 (224) 114	2359 (267) 101	139
8 (30)		573 (65) 184	921 (104) 183	1233 (139) 180	1597 (181) 171	1941 (219) 161	2284 (258) 148	185
10 (38)			837 (95) 230	1184 (134) 229	1531 (173) 221	1874 (212) 211	2220 (251) 197	231
12 (45)			736 (83) 276	1095 (124) 275	1432 (162) 270	1796 (203) 259	2133 (241) 245	278
14 (53)			643 (73) 322	1010 (114) 321	1366 (154) 320	1714 (194) 310	2045 (231) 295	324
Max. Cont. 16 (61)				901 (102) 369	1255 (142) 368	1585 (179) 362	1936 (219) 345	370
18 (68)				824 (93) 415	1121 (127) 414	1447 (164) 410		416
Max. Inter. 20 (76)					980 (111) 460	1348 (152) 460		462
1 RPM Stall Torque			527 (60)	913 (103)	1157 (131)	1396 (158)	1770 (200)	
Theo. Torque		398 (45)	796 (90)	1194 (135)	1592 (180)	1990 (225)	2389 (270)	2787 (315)

Areas within white represent maximum motor efficiencies.

2010 (227)	Torque, lb-in (Nm)
542	Speed, RPM

RS 200 Performance Data

Flow GPM (LPM)	Pressure, psi (bars)						Max. Cont.	Max. Inter.	Theo. RPM
	250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	1500 (104)	1750 (121)		
0.5 (2)	414 (47) 8	846 (96) 7	1250 (141) 6	1621 (183) 5	1983 (224) 3			10	
1 (4)	432 (49) 17	865 (98) 17	1360 (154) 15	1732 (196) 14	2136 (241) 11	2517 (284) 9	2811 (318) 5	19	
2 (8)	416 (47) 36	927 (105) 36	1386 (157) 34	1809 (204) 31	2166 (245) 29	2642 (299) 23	3019 (341) 17	37	
4 (15)	380 (43) 73	849 (96) 73	1349 (152) 72	1798 (203) 68	2204 (249) 65	2641 (298) 60	3094 (350) 52	74	
6 (23)		795 (90) 110	1322 (149) 110	1721 (194) 106	2207 (249) 103	2634 (298) 96	3007 (340) 90	111	
8 (30)		734 (83) 147	1228 (139) 146	1697 (192) 144	2102 (238) 142	2621 (296) 133	2997 (339) 126	148	
10 (38)		666 (75) 184	1134 (128) 183	1546 (175) 183	2013 (227) 181	2482 (280) 172	2910 (329) 166	185	
12 (45)			1026 (116) 221	1475 (167) 220	1924 (217) 218	2322 (262) 214	2795 (316) 205	222	
14 (53)			862 (97) 258	1358 (153) 257	1811 (205) 256	2218 (251) 252	2656 (300) 249	259	
Max. Cont. 16 (61)			752 (85) 295	1212 (137) 295	1687 (191) 294	2127 (240) 291	2583 (292) 284	296	
18 (68)				1079 (122) 332	1541 (174) 331	1981 (224) 330		333	
Max. Inter. 20 (76)				924 (104) 369	1366 (154) 368	1833 (207) 367		370	
1 RPM Stall Torque	339 (38)	658 (74)	1164 (132)	1436 (162)	1884 (213)	2294 (259)			
Theo. Torque	498 (56)	995 (112)	1493 (169)	1990 (225)	2488 (281)	2986 (337)	3483 (394)		

Areas within white represent maximum motor efficiencies.

2711 (306) 442	Torque, lb-in (Nm) Speed, RPM
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RS 250 Performance Data

Flow GPM (LPM)	Pressure, psi (bars)				Max. Cont.	Max. Inter.	Theo. RPM
	250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	1500 (104)	
0.5 (2)	457 (52) 6	919 (104) 4	1327 (150) 2				8
1 (4)	458 (52) 14	988 (112) 12	1491 (168) 10	1966 (222) 7	2361 (267) 4	2658 (300) 1	15
2 (8)	490 (55) 29	1018 (115) 27	1512 (171) 24	2041 (231) 20	2547 (288) 14	2856 (323) 9	30
4 (15)	437 (49) 59	1028 (116) 58	1517 (171) 56	2064 (233) 51	2551 (288) 44	3040 (344) 34	60
6 (23)	398 (45) 88	930 (105) 88	1440 (163) 87	1966 (222) 82	2512 (284) 76	3051 (345) 62	90
8 (30)		795 (90) 118	1305 (147) 117	1649 (186) 115	2372 (268) 106	2918 (330) 96	120
10 (38)		676 (76) 148	1253 (142) 147	1738 (196) 146	2263 (256) 140	2754 (311) 133	150
12 (45)		225 (25) 178	1098 (124) 177	1642 (186) 176	2071 (234) 173	2499 (282) 163	179
14 (53)			784 (89) 208	1386 (157) 206	1962 (222) 204	2460 (278) 194	209
16 (61)			722 (82) 237	1256 (142) 236	1786 (202) 234	2306 (261) 228	239
18 (68)				1096 (124) 266	1618 (183) 264	2126 (240) 259	269
20 (76)	Max. Cont.			842 (95) 297	1387 (157) 295	1919 (217) 293	299
22 (83)					1147 (130) 327		328
24 (91)	Max. Inter.				874 (99) 356		358
1 RPM Stall Torque							
	353 (40)	862 (97)	1385 (157)	1860 (210)	2280 (258)	2702 (305)	
Theo. Torque							
	617 (70)	1234 (139)	1851 (209)	2468 (279)	3085 (349)	3702 (418)	

Areas within white represent maximum motor efficiencies.

2176 (246) Torque, lb-in (Nm)
358 Speed, RPM

RS 300 Performance Data

Flow GPM (LPM)	Pressure, psi (bars)			Max. Cont.	Max. Inter.	Theo. RPM
	250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	
0.5 (2)	516 (58) 5	1111 (126) 5	1638 (185) 5			7
1 (4)	563 (64) 12	1096 (124) 12	1673 (189) 11	2325 (263) 10	2912 (329) 9	13
2 (8)	564 (64) 25	1180 (133) 25	1758 (199) 24	2375 (268) 23	3033 (343) 21	26
4 (15)	524 (59) 51	1193 (135) 51	1773 (200) 50	2384 (269) 50	3145 (355) 47	52
6 (23)	468 (53) 76	1116 (126) 76	1728 (195) 75	2463 (278) 75	3096 (350) 74	78
8 (30)		954 (108) 102	1650 (186) 101	2218 (251) 101	3000 (339) 100	104
10 (38)		887 (100) 128	1503 (170) 128	2132 (241) 127	2824 (319) 126	130
12 (45)		698 (79) 154	1381 (156) 154	1944 (220) 153	2660 (301) 152	155
14 (53)		558 (63) 180	1206 (136) 180	1780 (201) 179	2512 (284) 179	181
16 (61)			1000 (113) 205	1630 (184) 204	2213 (250) 203	207
18 (68)				1382 (156) 231	1915 (216) 230	233
20 (76)				1054 (119) 257	1679 (190) 256	259
22 (83)				738 (83) 283		284
24 (91)						310
1 RPM Stall Torque						
	447 (51)	1141 (129)	1751 (198)	2109 (238)		
Theo. Torque						
	713 (81)	1425 (161)	2138 (242)	2850 (322)	3563 (403)	

Areas within white represent maximum motor efficiencies.

2082 (235) Torque, lb-in (Nm)
318 Speed, RPM

RS 400 Performance Data

Flow GPM (LPM)	Pressure, psi (bars)			Max. Cont.	Max. Inter.	Theo. RPM
	250 (17)	500 (35)	750 (52)	1000 (69)	1250 (86)	
0.5 (2)	767 (87) 3	1656 (187) 2				5
1 (4)	793 (90) 8	1597 (180) 8	2425 (274) 6	3270 (369) 6	3951 (446) 3	10
2 (8)	777 (88) 18	1550 (175) 17	2528 (286) 16	3309 (374) 15	4124 (466) 12	19
4 (15)	753 (85) 37	1565 (177) 36	2540 (287) 35	3384 (382) 33	4153 (469) 29	38
6 (23)	631 (71) 55	1498 (169) 55	2477 (280) 54	3273 (370) 52	4122 (466) 49	56
8 (30)	516 (58) 73	1396 (158) 71	2274 (257) 70	3119 (352) 69	3901 (441) 68	75
10 (38)		1247 (141) 92	2103 (238) 91	2906 (328) 90	3837 (434) 87	93
12 (45)		1042 (118) 110	1989 (225) 109	2682 (303) 108	3613 (408) 107	112
14 (53)		792 (89) 129	1670 (189) 128	2463 (278) 126	3251 (367) 124	130
16 (61)		520 (59) 147	1359 (154) 146	2204 (249) 144	2954 (334) 143	149
18 (68)			1027 (116) 166	1934 (219) 165	2746 (310) 164	167
20 (76)			790 (89) 185	1663 (188) 184	2336 (264) 183	186
22 (83)				1242 (140) 204		205
24 (91)				824 (93) 222		223
1 RPM Stall Torque						
	739 (84)	1545 (175)	2146 (242)	3201 (362)		
Theo. Torque						
	991 (112)	1982 (224)	2974 (336)	3965 (448)	4956 (560)	

Areas within white represent maximum motor efficiencies.

1187 (134) Torque, lb-in (Nm)
277 Speed, RPM