



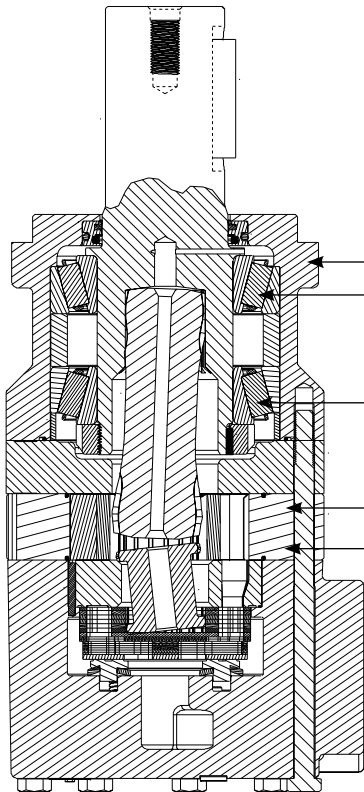
D9

SERIES HYDRAULIC MOTORS

D9

OVERVIEW

The D9 Series of motor is the largest member of the White Drive Product's family. The product is capable of producing torque values comparable to competitive motors, but with an industry leading breadth of displacements and shaft and porting options. In addition, the product incorporates dual tapered roller bearings, which improve load carrying capabilities. The motor is designed for use with a case-drain, which reduces pressure on the shaft seal and maintains lubrication to internal drive components, maximizing motor life. The series is available with industry standard mounting flanges found throughout the global market place.



KEY FEATURES

- **Industry Standard Mounting Flanges** that satisfy the global market place.
- **Dual Tapered Roller Bearings** improve load carrying capability.
- **Nine Displacement Options** provide industry leading design flexibility.
- **Roller Stator® Design** incorporates 8 lobe rotor and 9 pocket stator technology.

SPECIFICATIONS

Intermittent Ratings - 10% of Operation Peak Ratings - 1% of Operation

CODE	Displacement cc [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
260	256 [15.6]	520	700	136 [36]	182 [48]	763 [6750]	891 [7885]	207 [3000]	241 [3500]	259 [3750]
300	294 [17.9]	530	688	159 [42]	204 [54]	870 [7700]	1017 [9000]	207 [3000]	241 [3500]	259 [3750]
375	367 [22.4]	550	613	204 [54]	227 [60]	1099 [9725]	1284 [11365]	207 [3000]	241 [3500]	259 [3750]
450	455 [27.8]	445	496	204 [54]	227 [60]	1349 [11934]	1571 [13907]	207 [3000]	241 [3500]	259 [3750]
525	525 [32.1]	385	430	204 [54]	227 [60]	1569 [13888]	1824 [16143]	207 [3000]	241 [3500]	259 [3750]
625	623 [38.1]	325	361	204 [54]	227 [60]	1883 [16660]	2183 [19317]	207 [3000]	241 [3500]	259 [3750]
735	734 [44.8]	276	308	204 [54]	227 [60]	1815 [16063]	2165 [19156]	172 [2500]	207 [3000]	241 [3500]
910	911 [55.6]	223	250	204 [54]	227 [60]	2290 [20265]	2713 [24008]	172 [2500]	207 [3000]	241 [3500]
1K0	1027 [62.7]	197	220	204 [54]	227 [60]	2055 [18186]	2535 [22434]	138 [2000]	172 [2500]	207 [3000]



260

Pressure - bars [psi]						Max. Cont.	Max. Inter.
17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	241 [3500]

256 cc [15.6 in³/rev.]

Torque - Nm [lb-in], Speed rpm Intermittent Ratings - 10% of Operation

Max. Cont.	Flow - lpm [gpm]	8 [2]	23 [6]	45 [12]	68 [18]	91 [24]	114 [30]	136 [36]	159 [42]	182 [48]	Theoretical rpm	
	Max. Inter.	Torque - Nm [lb-in]	39 [341] 27	97 [858] 26	213 [1883] 24	328 [2900] 21	441 [3903] 19	552 [4886] 15	661 [5848] 12	830 [7349] 62		30
		84	108 [958] 81	233 [2058] 81	358 [3169] 78	482 [4263] 74	601 [5322] 70	718 [6351] 66	830 [7349] 62	89		
		171	112 [992] 171	241 [2134] 168	372 [3289] 164	502 [4439] 159	630 [5572] 153	755 [6679] 146	877 [7761] 139	178		
		434	110 [976] 434	241 [2132] 430	373 [3297] 425	506 [4477] 419	635 [5617] 412	764 [6760] 402	891 [7885] 388	267		
		522	105 [929] 522	236 [2091] 342	370 [3270] 338	502 [4441] 331	631 [5587] 324	761 [6738] 315	890 [7878] 306	355		
		611	97 [855] 611	229 [2024] 607	359 [3178] 601	494 [4374] 594	627 [5544] 585	757 [6700] 576	883 [7818] 838	444		
		701	87 [768] 701	218 [1933] 518	352 [3115] 512	483 [4271] 505	617 [5463] 497	750 [6633] 488	878 [7766] 477	533		
		611	76 [669] 611	206 [1827] 607	340 [3009] 601	474 [4194] 594	608 [5376] 585	738 [6535] 576	838 [7414] 838	622		
		701	62 [546] 701	193 [1712] 696	327 [2891] 690	460 [4070] 683	594 [5257] 674	726 [6426] 664	838 [7414] 838	710		

Overall Efficiency - 70 - 100% 40 - 69% 0 - 39%

Theoretical Torque - Nm [lb-in]

70 [622]	140 [1243]	281 [2486]	421 [3729]	562 [4972]	702 [6215]	843 [7458]	983 [8701]
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Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]

300

Pressure - bars [psi]						Max. Cont.	Max. Inter.
17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	241 [3500]

294 cc [17.9 in³/rev.]

Torque - Nm [lb-in], Speed rpm Intermittent Ratings - 10% of Operation

Max. Cont.	Flow - lpm [gpm]	8 [2]	23 [6]	45 [12]	68 [18]	91 [24]	114 [30]	136 [36]	159 [42]	182 [48]	204 [54]	Theoretical rpm
	Max. Inter.	Torque - Nm [lb-in]	52 [458] 23	119 [1053] 21	252 [2234] 19	382 [3379] 16	511 [4521] 12	636 [5633] 9	819 [7250] 50	949 [8398] 45	26	
		72	127 [1124] 72	268 [2376] 68	410 [3625] 65	549 [4854] 60	686 [6069] 55	819 [7250] 50	949 [8398] 45	78		
		147	130 [1152] 147	275 [2434] 143	422 [3731] 138	568 [5025] 132	713 [6313] 125	856 [7578] 119	996 [8815] 113	155		
		222	129 [1141] 222	277 [2452] 218	427 [3777] 213	575 [5092] 206	722 [6392] 199	869 [7690] 191	1013 [8961] 183	232		
		298	124 [1097] 298	274 [2422] 294	424 [3753] 288	573 [5074] 281	722 [6390] 272	871 [7707] 264	1019 [9014] 255	310		
		453	115 [1022] 453	266 [2356] 371	418 [3700] 364	569 [5032] 357	719 [6362] 348	867 [7673] 339	1016 [8987] 330	387		
		530	104 [924] 453	255 [2256] 448	407 [3601] 442	559 [4947] 434	710 [6279] 426	860 [7615] 416	1009 [8925] 405	464		
		608	92 [814] 530	242 [2144] 525	395 [3498] 517	547 [4845] 509	699 [6183] 500	848 [7506] 490	999 [8837] 480	541		
		688	78 [686] 608	227 [2011] 602	379 [3357] 595	533 [4715] 586	685 [6062] 577	838 [7414] 566	999 [8837] 480	619		
688		61 [543] 688	212 [1872] 682	364 [3219] 674	518 [4582] 665	670 [5932] 655	822 [7272] 644	999 [8837] 480	696			

Overall Efficiency - 70 - 100% 40 - 69% 0 - 39%

Theoretical Torque - Nm [lb-in]

81 [714]	161 [1428]	323 [2855]	484 [4283]	645 [5710]	807 [7138]	968 [8566]	1129 [9993]
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Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]

D9



PERFORMANCE

375

Pressure - bars [psi]								Max. Cont.	Max. Inter.
17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	241 [3500]		

367 cc [22.4 in³/rev.]

Flow - lpm [gpm]	Torque - Nm [lb-in], Speed rpm								Intermittent Ratings - 10% of Operation	
	62 [546]	147 [1297]	311 [2752]	474 [4197]	634 [5609]	792 [7010]				
8 [2]	18	17	14	11	8	5				21
23 [6]		57	54	50	46	42	38	34		62
45 [12]		117	114	109	103	98	92	86		124
68 [18]		177	173	168	162	155	147	140		186
91 [24]		238	234	229	222	214	205	196		248
114 [30]		300	295	290	282	274	264	254		310
136 [36]		362	358	353	345	336	326	315		371
159 [42]		424	420	414	406	396	385	373		433
182 [48]		486	481	475	468	458	444	432		495
204 [54]		549	544	538	530	521	510	490		557
227 [60]		613	607	600	592	582	572			619

Overall Efficiency - 70 - 100% 40 - 69% 0 - 39%

Theoretical Torque - Nm [lb-in]

101 [892]	202 [1784]	403 [3568]	605 [5352]	806 [7137]	1008 [8921]	1210 [10705]	1411 [12489]
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Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]

450

Pressure - bars [psi]								Max. Cont.	Max. Inter.
17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	241 [3500]		

455 cc [27.8 in³/rev.]

Flow - lpm [gpm]	Torque - Nm [lb-in], Speed rpm								Intermittent Ratings - 10% of Operation	
	82 [722]	189 [1674]	400 [3538]	608 [5384]	816 [7224]					
8 [2]	15	14	12	11	9					17
23 [6]		47	44	40	37	34	31			50
45 [12]		96	92	87	82	77	72	69		100
68 [18]		145	144	141	136	130	123	117		150
91 [24]		194	193	190	185	179	171	163		200
114 [30]		244	243	239	234	227	220	211		250
136 [36]		293	289	284	277	269	259	249		300
159 [42]		343	340	334	327	318	309	298		349
182 [48]		393	390	384	377	368	357	345		399
204 [54]		445	440	434	426	417	406	393		449
227 [60]		496	491	484	477	467	458			499

Overall Efficiency - 70 - 100% 40 - 69% 0 - 39%

Theoretical Torque - Nm [lb-in]

125 [1106]	250 [2212]	500 [4425]	750 [6637]	1000 [8849]	1250 [11061]	1500 [13274]	1750 [15486]
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Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]



525

Pressure - bars [psi]							Max. Cont.	Max. Inter.
17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	241 [3500]	

525 cc [32.1 in³/rev.]

Torque - Nm [lb-in], Speed rpm Intermittent Ratings - 10% of Operation

Max. Max. Inter. Cont.	Flow - lpm [gpm]	8 [2]	105 [929] 13	230 [2031] 12	472 [4175] 10	707 [6257] 8	940 [8317] 6				Theoretical rpm	
		23 [6]	112 [995] 41	243 [2148] 39	504 [4460] 36	755 [6683] 33	1004 [8886] 29	1240 [10976] 25	1479 [13087] 17			15
		45 [12]	112 [989] 83	245 [2165] 82	512 [4529] 78	778 [6887] 74	1041 [9212] 68	1296 [11468] 63	1543 [13653] 59			44
		68 [18]	105 [927] 125	238 [2107] 124	508 [4497] 120	779 [6890] 115	1045 [9251] 109	1306 [11560] 102	1560 [13804] 95	1793 [15869] 89		87
		91 [24]	93 [824] 168	226 [2002] 166	496 [4394] 163	767 [6789] 158	1038 [9189] 151	1306 [11558] 144	1569 [13888] 136	1824 [16143] 128		130
		114 [30]	79 [696] 211	212 [1874] 209	484 [4283] 205	755 [6683] 200	1026 [9079] 193	1295 [11457] 185	1560 [13809] 177	1819 [16097] 167		173
		136 [36]		193 [1710] 253	465 [4414] 249	736 [6513] 243	1007 [8912] 236	1279 [11318] 228	1549 [13706] 219	1811 [16023] 210		217
		159 [42]		170 [1504] 296	444 [3925] 292	715 [6330] 287	986 [8726] 280	1257 [11125] 272	1526 [13507] 262	1793 [15864] 252		260
		182 [48]		147 [1305] 339	420 [3716] 335	692 [6120] 328	961 [8509] 321	1233 [10914] 314	1505 [13321] 303	1772 [15682] 294		303
		204 [54]		118 [1041] 384	390 [3450] 379	661 [5850] 374	934 [8269] 366	1205 [10660] 358	1475 [13050] 348	1741 [15411] 338		346
		227 [60]		88 [778] 429	359 [3181] 423	631 [5582] 417	902 [7980] 409	1174 [10386] 400	1443 [12768] 391			389

Overall Efficiency - 70 - 100% 40 - 69% 0 - 39%

Theoretical Torque - Nm [lb-in]

114 [1276]	288 [2553]	577 [5106]	865 [7659]	1154 [10211]	1442 [12764]	1731 [15317]	2019 [17870]
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Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]

625

Pressure - bars [psi]							Max. Cont.	Max. Inter.
17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	241 [3500]	

623 cc [38.1 in³/rev.]

Torque - Nm [lb-in], Speed rpm Intermittent Ratings - 10% of Operation

Max. Max. Inter. Cont.	Flow - lpm [gpm]	8 [2]	132 [1169] 10	273 [2419] 10	553 [4896] 8	832 [7365] 7	1105 [9778] 6				Theoretical rpm	
		23 [6]	144 [1273] 34	300 [2656] 34	609 [5393] 32	916 [8102] 31	1204 [10655] 28	1479 [13090] 21				13
		45 [12]	141 [1247] 70	303 [2682] 69	624 [5521] 67	945 [8362] 66	1249 [11049] 56	1559 [13797] 58	1846 [16339] 53			37
		68 [18]	133 [1179] 106	295 [2613] 105	619 [5478] 104	942 [8340] 101	1263 [11180] 98	1576 [13949] 93	1877 [16607] 86	2166 [19168] 79		73
		91 [24]	120 [1061] 142	281 [2486] 141	607 [5368] 140	932 [8251] 137	1255 [11102] 133	1572 [13913] 128	1882 [16659] 121	2183 [19317] 113		110
		114 [30]	100 [886] 178	261 [2309] 177	586 [5183] 175	910 [8053] 172	1234 [10916] 167	1552 [13738] 161	1860 [16456] 155	2172 [19220] 148		146
		136 [36]	78 [694] 214	238 [2106] 213	562 [4971] 211	888 [7859] 208	1213 [10731] 203	1533 [13571] 197	1839 [16274] 190	2189 [19369] 181		183
		159 [42]	53 [469] 251	210 [1855] 250	532 [4711] 248	857 [7585] 245	1183 [10471] 240	1506 [13325] 234	1827 [16171] 227	2143 [18968] 219		219
		182 [48]		180 [1591] 287	503 [4453] 285	827 [7315] 281	1151 [10189] 277	1475 [13050] 270	1795 [15888] 262	2114 [18706] 254		255
		204 [54]		146 [1295] 324	470 [4155] 322	793 [7021] 318	1118 [9898] 313	1440 [12742] 306	1758 [15558] 299	2078 [18392] 291		292
		227 [60]		111 [982] 361	433 [3829] 359	756 [6693] 355	1080 [9555] 349	1401 [12401] 343	1722 [15238] 335			328

Overall Efficiency - 70 - 100% 40 - 69% 0 - 39%

Theoretical Torque - Nm [lb-in]

171 [1514]	342 [3029]	684 [6057]	1027 [9086]	1369 [12115]	1711 [15144]	2053 [18172]	2396 [21201]
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Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]

D9



PERFORMANCE

735

Pressure - bars [psi]						Max. Cont.	Max. Inter.
17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	

734 cc [44.8 in³/rev.]

Flow - lpm [gpm]	Torque - Nm [lb-in], Speed rpm							Intermittent Ratings - 10% of Operation	
	17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	Max. Cont.	Max. Inter.
8 [2]	158 [1395] 9	328 [2900] 9	667 [5904] 8	1006 [8902] 7	1344 [11890] 6				11
23 [6]	165 [1460] 29	347 [3074] 29	710 [6282] 27	1061 [9389] 26	1401 [12397] 20	1739 [15391] 13			31
45 [12]	163 [1445] 60	350 [3095] 59	722 [6387] 57	1089 [9635] 54	1440 [12747] 51	1775 [15711] 37			62
68 [18]	155 [1374] 90	343 [3036] 89	721 [6377] 87	1093 [9675] 84	1458 [12900] 79	1813 [16045] 75	2162 [19136] 71		93
91 [24]	141 [1245] 120	329 [2914] 119	708 [6267] 117	1085 [9606] 113	1455 [12872] 108	1815 [16063] 103	2165 [19156] 98		124
114 [30]	119 [1050] 151	307 [2714] 150	685 [6065] 147	1063 [9409] 143	1435 [12699] 137	1799 [15917] 131	2153 [19051] 124		155
136 [36]	93 [823] 182	282 [2491] 181	660 [5841] 178	1039 [9191] 173	1413 [12504] 167	1779 [15740] 160	2135 [18897] 152		186
159 [42]		248 [2193] 213	629 [5562] 209	1010 [8934] 205	1388 [12280] 198	1760 [15574] 191	2122 [18778] 183		217
182 [48]		215 [1905] 244	595 [5263] 240	975 [8626] 235	1356 [11998] 228	1732 [15330] 221	2098 [18570] 213		248
204 [54]		176 [1558] 276	555 [4913] 272	936 [8286] 267	1319 [11671] 260	1694 [14992] 252	2065 [18274] 244		279
227 [60]		132 [1171] 308	511 [4521] 304	892 [7892] 298	1273 [11267] 291	1649 [14589] 283			310

Overall Efficiency - 70 - 100% 40 - 69% 0 - 39%

Theoretical Torque - Nm [lb-in]

201 [1783]	403 [3565]	806 [7130]	1209 [10695]	1611 [14260]	2014 [17825]	2417 [21390]
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Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]

910

Pressure - bars [psi]						Max. Cont.	Max. Inter.
17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	

911 cc [55.6 in³/rev.]

Flow - lpm [gpm]	Torque - Nm [lb-in], Speed rpm							Intermittent Ratings - 10% of Operation	
	17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	Max. Cont.	Max. Inter.
8 [2]	210 [1860] 7	425 [3761] 7	842 [7455] 6	1245 [11022] 5					9
23 [6]	221 [1955] 24	451 [3989] 23	905 [8005] 21	1334 [11807] 17	1737 [15368] 8				25
45 [12]	218 [1931] 48	456 [4036] 47	929 [8223] 45	1389 [12295] 42	1826 [16161] 36	2224 [19682] 13			50
68 [18]	205 [1812] 73	445 [3937] 72	924 [8174] 69	1395 [12346] 66	1855 [16415] 59	2277 [20148] 53	2693 [23835] 48		75
91 [24]	182 [1607] 97	421 [3728] 97	901 [7969] 94	1376 [12174] 89	1841 [16295] 83	2290 [20265] 74	2713 [24008] 66		100
114 [30]	145 [1282] 122	381 [3376] 122	858 [7591] 119	1330 [11766] 114	1795 [15881] 107	2248 [19895] 99	2680 [23720] 90		125
136 [36]	90 [797] 148	318 [2813] 146	784 [6938] 142	1244 [11010] 136	1701 [15056] 128	2146 [18995] 119	2572 [22758] 108		150
159 [42]	54 [478] 173	279 [2465] 171	740 [6553] 167	1202 [10633] 160	1658 [14668] 152	2105 [18629] 143	2538 [22461] 133		175
182 [48]		233 [2061] 197	691 [6115] 192	1150 [10173] 185	1607 [14220] 177	2060 [18230] 168	2500 [22119] 158		200
204 [54]		173 [1527] 223	629 [5569] 219	1088 [9628] 212	1546 [13682] 203	2001 [17705] 194	2447 [21656] 184		225
227 [60]		113 [998] 250	571 [5056] 244	1028 [9095] 236	1485 [13145] 228	1946 [17223] 219			250

Overall Efficiency - 70 - 100% 40 - 69% 0 - 39%

Theoretical Torque - Nm [lb-in]

250 [2213]	500 [4426]	1000 [8852]	1500 [13278]	2001 [17704]	2501 [22130]	3001 [26557]
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Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]



1K0

Pressure - bars [psi]				Max. Cont.	Max. Inter.
17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]

1027 cc [62.7 in³/rev.]

Torque - Nm [lb-in], Speed rpm Intermittent Ratings - 10% of Operation

Flow - lpm [gpm]	8 [2]	227 [2006] 7	467 [4134] 6	945 [8363] 6	1416 [12528] 6	1884 [16673] 5		8	Theoretical rpm
	23 [6]	239 [2118] 21	495 [4380] 21	1000 [8851] 20	1487 [13156] 16	1947 [17228] 9		23	
	45 [12]	238 [2102] 43	503 [4454] 42	1030 [9111] 41	1544 [13666] 39	2013 [17815] 19		45	
	68 [18]	225 [1988] 65	494 [4373] 64	1029 [9105] 63	1556 [13770] 60	2055 [18186] 55	2526 [22350] 50	67	
	91 [24]	198 [1753] 86	467 [4135] 86	1007 [8911] 84	1539 [13615] 81	2048 [18127] 75	2531 [22399] 68	89	
	114 [30]	167 [1479] 108	437 [3871] 108	978 [8651] 106	1512 [13384] 103	2037 [18025] 97	2535 [22434] 89	111	
	136 [36]	129 [1139] 131	399 [3527] 130	940 [8319] 128	1477 [13069] 124	2004 [17733] 118	2513 [22235] 110	133	
	159 [42]	87 [773] 153	353 [3124] 152	894 [7910] 150	1432 [12671] 146	1964 [17381] 140	2465 [21818] 129	155	
	182 [48]		303 [2684] 175	844 [7472] 172	1383 [12241] 168	1917 [16964] 162	2435 [21550] 154	177	
	204 [54]		246 [2180] 197	785 [6950] 195	1324 [11718] 190	1856 [16429] 184	2360 [20883] 177	199	
	227 [60]		183 [1617] 220	723 [6400] 217	1260 [11150] 213	1793 [15872] 206	2319 [20522] 198	222	

Overall Efficiency - 70 - 100% 40 - 69% 0 - 39%

Theoretical Torque - Nm [lb-in]

282 [2495]	564 [4990]	1128 [9981]	1692 [14971]	2256 [19961]	2820 [24952]
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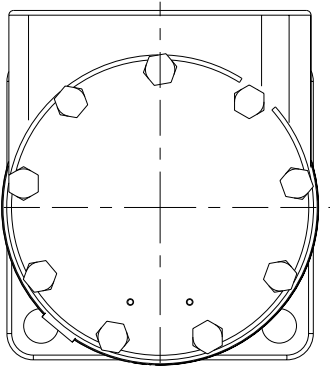
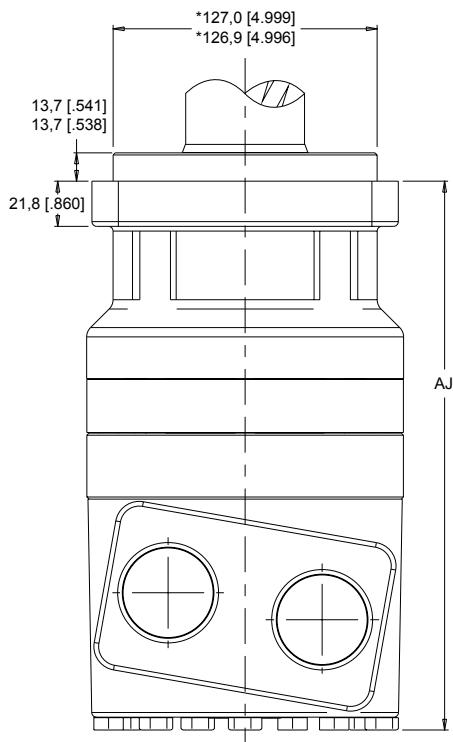
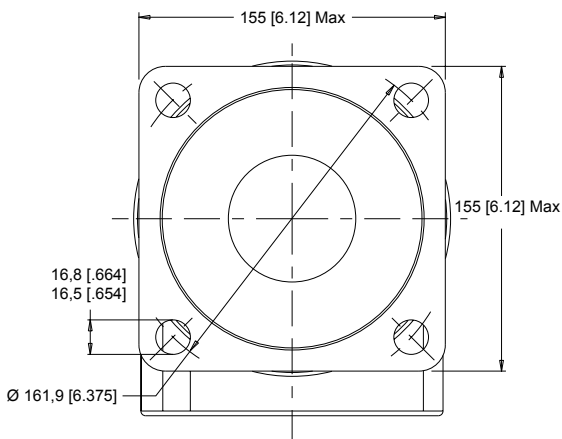
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]



NOTE: Dimensions shown are without paint. Paint thickness can be up to 0,13 [.005]

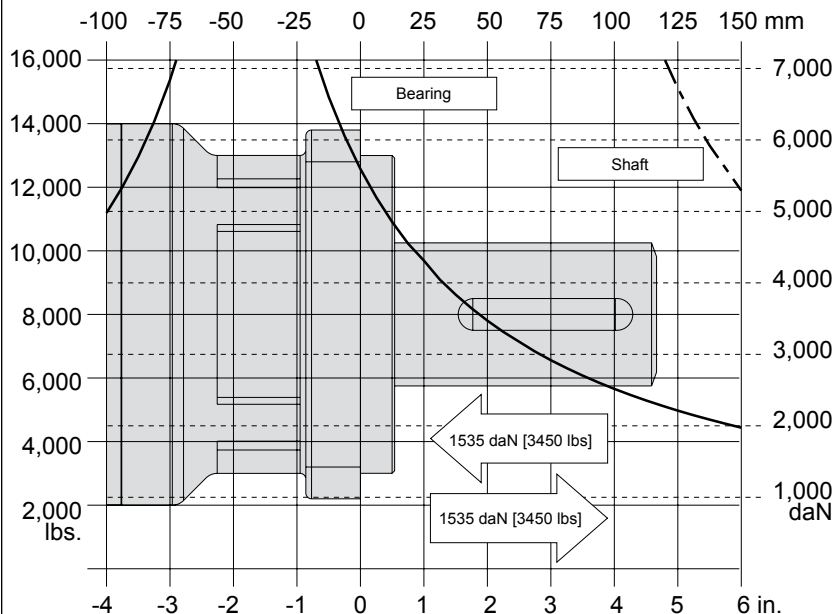
800 & 801 SERIES HOUSINGS

- C8** 4-Hole SAE C Mount 5" Pilot Side Ports
- E8** 4-Hole SAE C Mount 125mm Pilot Side Ports



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.

SAE C MOUNT



LENGTH / WEIGHT CHART		
SAE C Mount - Dimension AJ		
Code	mm [in]	kg [lb]
260	255 [10.03]	32,0 [70.5]
300	258 [10.16]	32,5 [71.4]
375	264 [10.41]	33,2 [73.1]
450	272 [10.71]	34,1 [75.1]
525	278 [10.95]	34,9 [76.8]
625	287 [11.29]	35,9 [78.9]
735	296 [11.66]	37,0 [81.4]
910	311 [12.26]	38,8 [85.4]
1K0	322 [12.67]	40,0 [88.0]

NOTE: D9 motor weights vary \pm 2,3 kg [5 lb] depending upon motor configuration.



BEARING LOAD MULTIPLICATION FACTOR TABLE			
RPM	FACTOR	RPM	FACTOR
50	1.23	500	0.62
100	1.00	600	0.58
200	0.81	700	0.56
300	0.72	800	0.50
400	0.66		

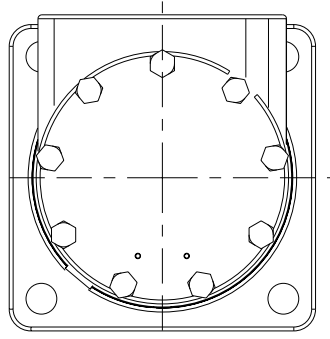
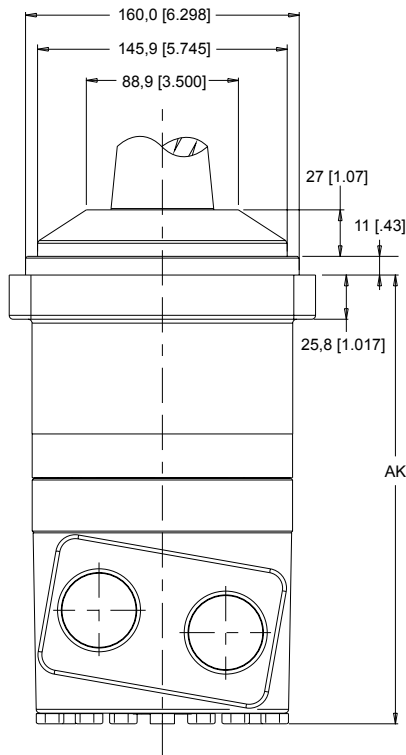
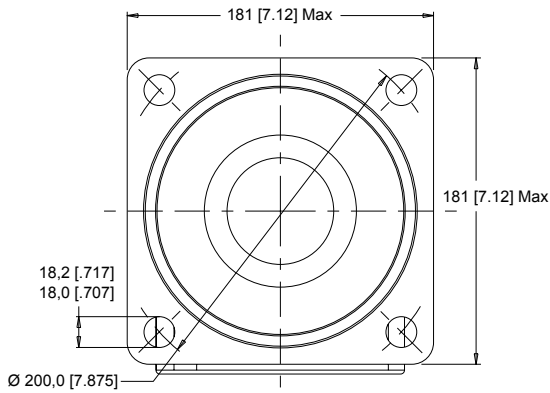


NOTE: *The E8 Housing has a 125mm [4.92 in] pilot diameter.



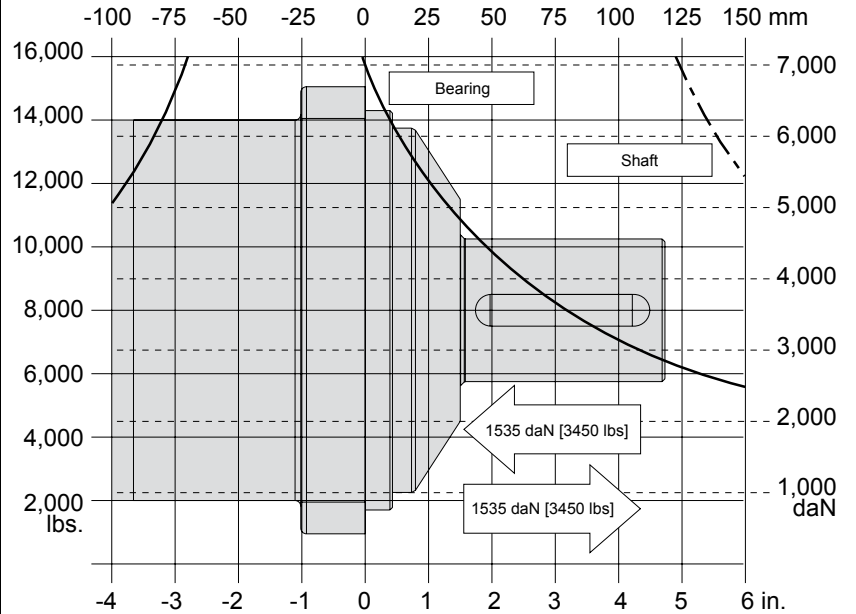
800 & 801 SERIES HOUSINGS

D8 4-Hole 160mm Pilot Side Ports



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 8.

160MM PILOT HOUSING



LENGTH / WEIGHT CHART
160mm Pilot - Dimension AK

Code	mm [in]	kg [lb]
260	252 [9.93]	37,6 [82.8]
300	256 [10.06]	38,0 [83.7]
375	262 [10.31]	38,8 [85.4]
450	269 [10.61]	39,7 [87.4]
525	276 [10.85]	40,5 [89.0]
625	284 [11.19]	41,5 [91.2]
735	294 [11.56]	42,6 [93.7]
910	309 [12.16]	44,4 [97.7]
1K0	319 [12.57]	45,6 [100.3]

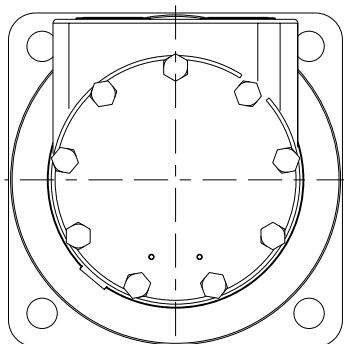
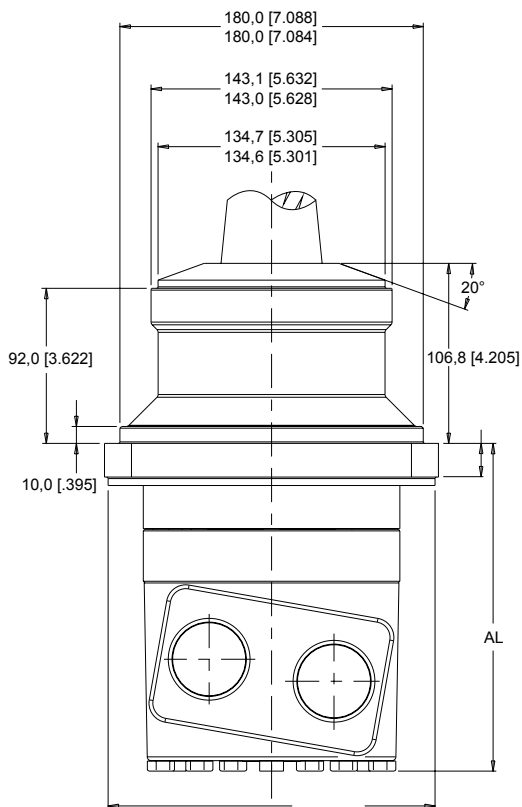
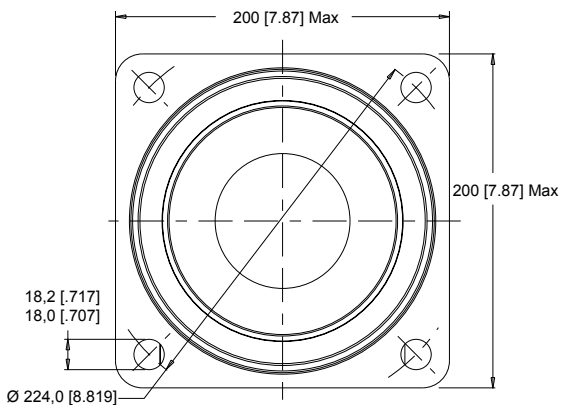
NOTE:
D9 motor weights vary $\pm 2,3$ kg [5 lb] depending upon motor configuration.



NOTE: Dimensions shown are without paint. Paint thickness can be up to 0,13 [.005]

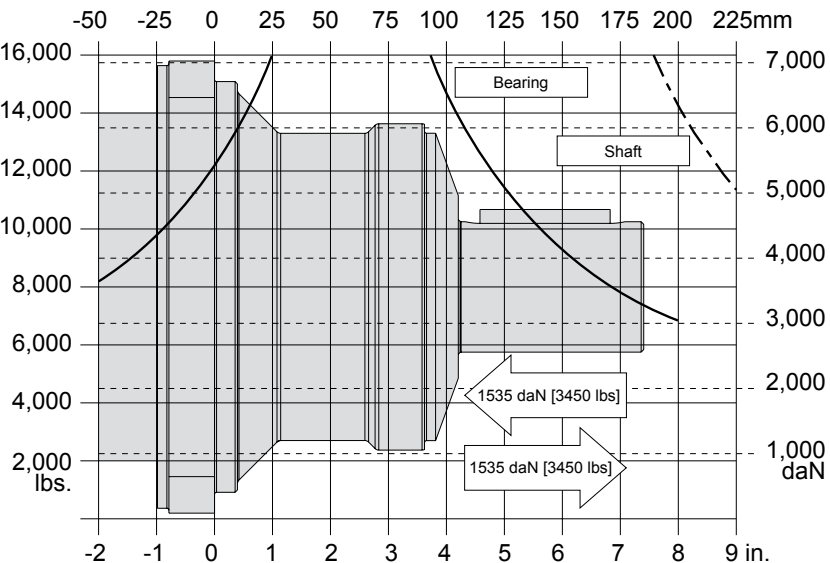
800 & 801 SERIES HOUSINGS

W8 4-Hole Wheel Mount Side Ports



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 8.

WHEEL MOUNT

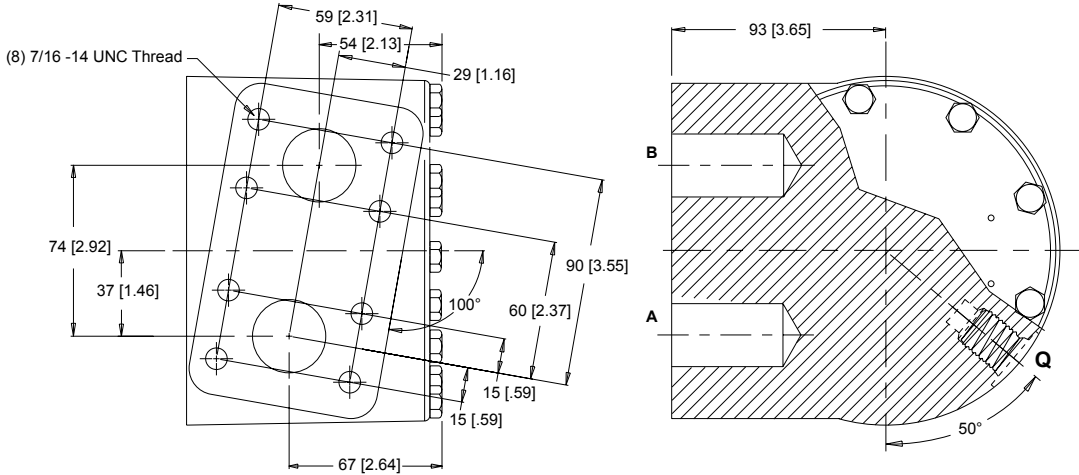


LENGTH / WEIGHT CHART		
Wheel Mount - Dimension AL		
Code	mm [in]	kg [lb]
260	184 [7.26]	37,7 [83.0]
300	188 [7.39]	38,1 [83.9]
375	194 [7.64]	38,9 [85.5]
450	202 [7.94]	39,8 [87.5]
525	208 [8.18]	40,5 [89.1]
625	216 [8.51]	41,5 [91.4]
735	226 [8.89]	42,7 [93.9]
910	241 [9.49]	44,8 [97.8]
1K0	251 [9.89]	45,7 [100.5]

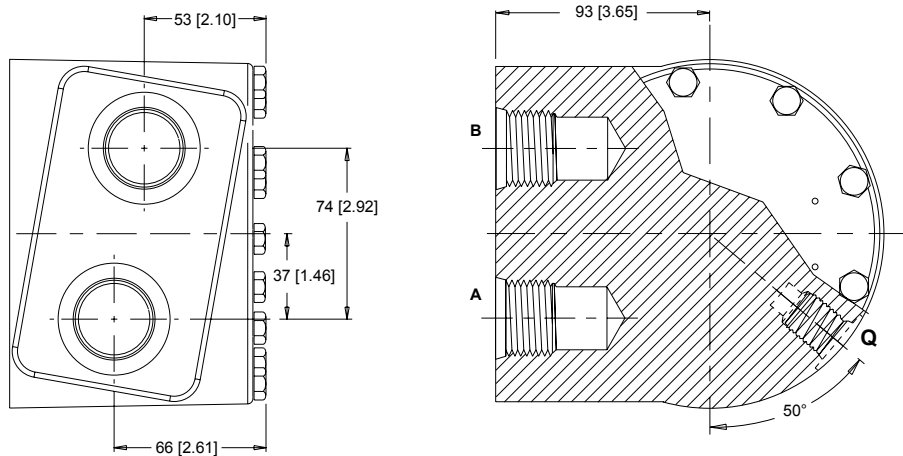
NOTE:
D9 motor weights vary $\pm 2,3$ kg [5 lb] depending upon motor configuration.



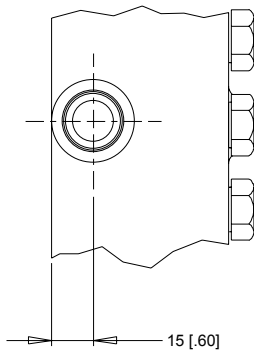
0 1-1/4" Split Flange with 3/4" O-Ring Drain Port



9 1-5/16" O-Ring with 3/4" O-Ring Drain Port



Q - Case Drain



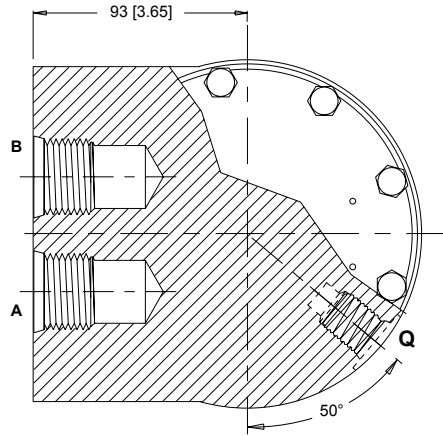
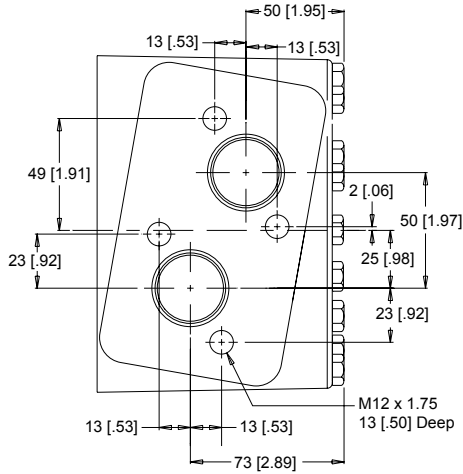
NOTE: The D9 is designed to run with a case drain. Sealing off the case drain can over-pressurize the shaft seal causing seal failure.



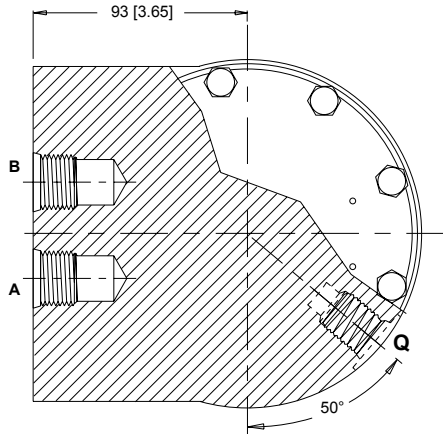
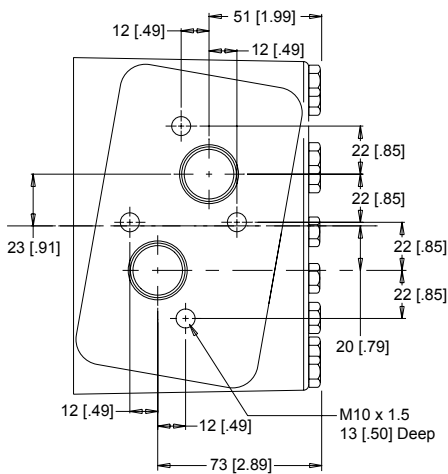
D9

800 & 801 SERIES PORTING OPTIONS

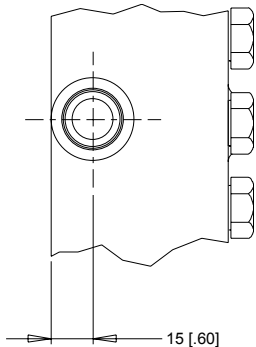
8 1" BSP.F with 1/4" BSP.F Drain Port



7 3/4" BSP.F with 1/4" BSP.F Drain Port



Q - Case Drain



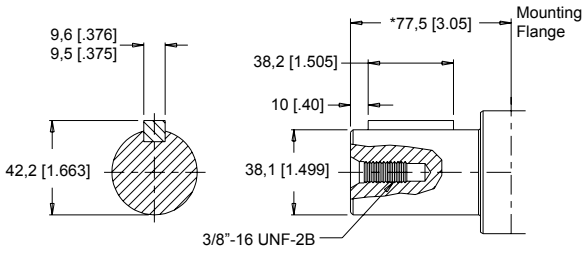
NOTE: The D9 is designed to run with a case drain. Sealing off the case drain can over-pressurize the shaft seal causing seal failure.



800 & 801 SERIES SHAFTS

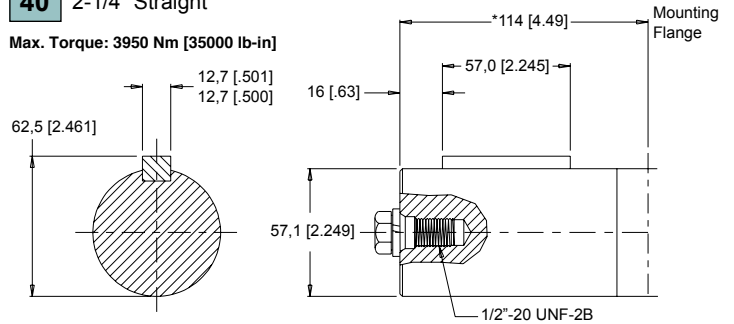
30 1-1/2" Straight

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



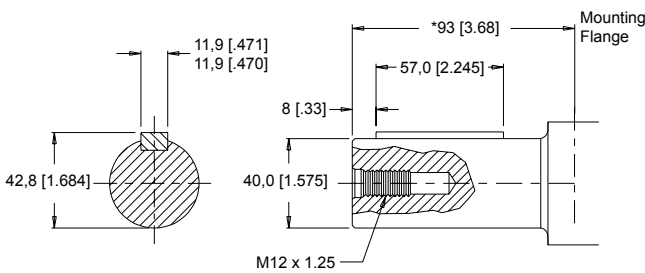
40 2-1/4" Straight

Max. Torque: 3950 Nm [35000 lb-in]



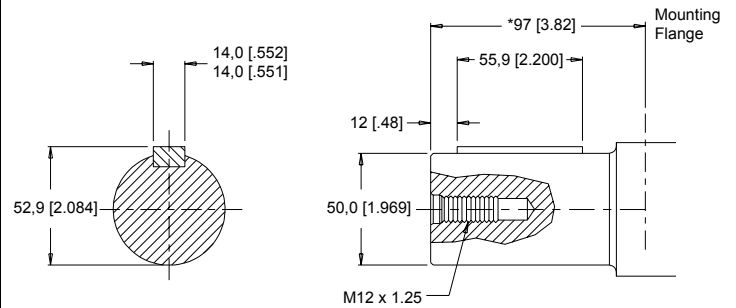
36 40mm Straight

Max. Torque: 3950 Nm [35000 lb-in]



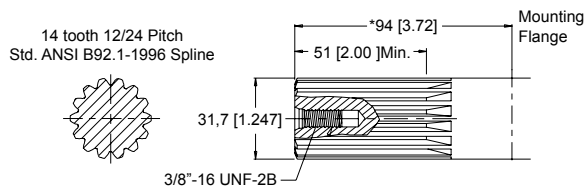
41 50mm Straight

Max. Torque: 3950 Nm [35000 lb-in]



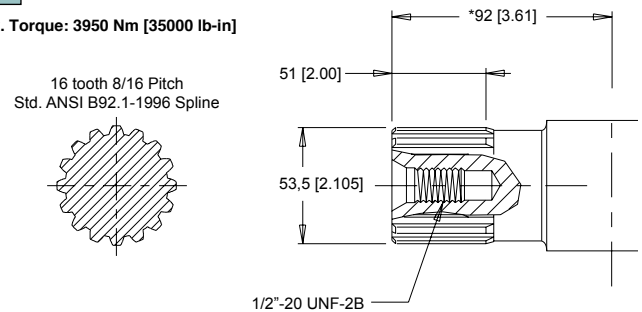
23 14 Tooth Spline

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



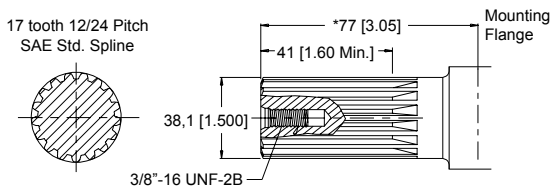
42 16 Tooth Spline

Max. Torque: 3950 Nm [35000 lb-in]



33 17 Tooth Spline

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



NOTE: Shafts listed on this page are only available on the C8 & E8 housings only. *Shaft lengths vary ± 0.8 [0.030].

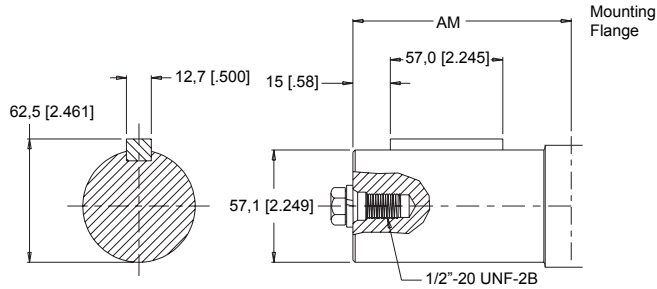
D9

800 & 801 SERIES SHAFTS



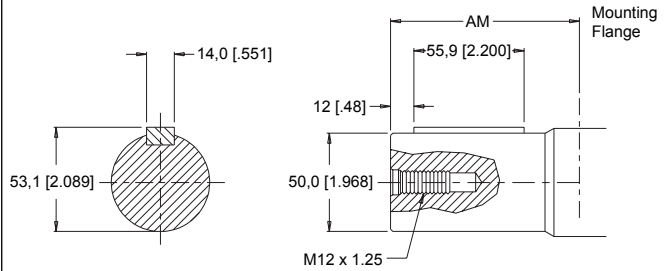
47 2-1/4" Straight Extended

Max. Torque: 3950 Nm [35000 lb-in]



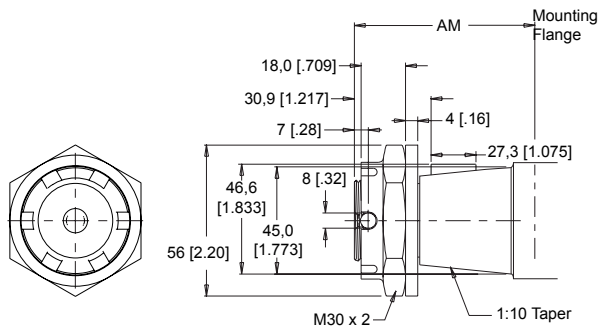
68 50mm Straight Extended

Max. Torque: 3950 Nm [35000 lb-in]



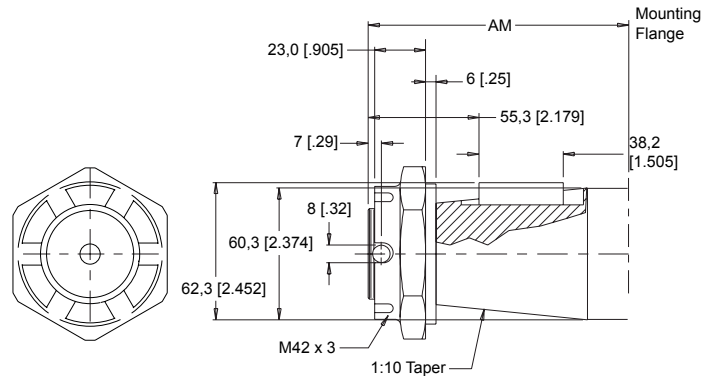
38 45mm Tapered

Max. Torque: 3950 Nm [35000 lb-in]



D3 60mm Tapered

Max. Torque: 3950 Nm [35000 lb-in]



NOTE: A slotted nut is standard on all tapered shafts. Shafts listed on this page are only available on the D8 & W8 housings only.

MOUNTING FLANGE TO SHAFT END Dimension AM		
Code	160mm Pilots mm [in]	Wheel Mount mm [in]
38	121 [4.78]	189 [7.45]
47	120 [4.73]	188 [7.40]
68	120 [4.73]	188 [7.40]
D3	144 [5.67]	212 [8.34]

Shaft lengths vary $\pm 0,8$ [.030].

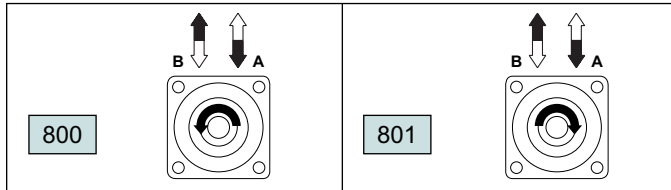


800 & 801 SERIES MODEL CODE BUILDER

SERIES	DISPLACEMENT	HOUSING	SHAFT	PAINT	CAVITY	ADD ON	MISCELLANEOUS
STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6	STEP 7	STEP 8

STEP 1 - Select a series

- 800 Counterclockwise Rotation
- 801 Clockwise Rotation



STEP 2 - Select a displacement option

260	256 cc	[15.6 in ³ /rev]	625	623 cc	[38.1 in ³ /rev]
300	294 cc	[17.9 in ³ /rev]	735	734 cc	[44.8 in ³ /rev]
375	367 cc	[22.4 in ³ /rev]	910	911 cc	[55.6 in ³ /rev]
450	455 cc	[27.8 in ³ /rev]	1K0	1027 cc	[62.7 in ³ /rev]
525	525 cc	[32.1 in ³ /rev]			

STEP 3 - Select a mounting option

NOTE: To complete the three (3) digit D9 Series housing code a two (2) digit mounting option must be followed with the single (1) digit porting option found in STEP 3 part II. Side port mounting options need side port porting options and end port mounting options need end port porting options.

- C8 4-Hole SAE C Mount 5" Pilot Side Ports
- E8 4-Hole SAE C Mount 125mm Pilot Side Ports
- D8 4-Hole 160mm Pilot Side Ports
- W8 4-Hole Wheel Mount Side Ports

STEP 3 (part II) - Select a porting option

END PORTS

N/A

SIDE PORTS

- 0 1-1/4" Split Flange with 3/4" O-Ring Drain Port
- 7 3/4" BSP.F with 1/4" BSP.F Drain Port
- 8 1" BSP.F with 1/4" BSP.F Drain Port
- 9 1-5/16" O-Ring with 3/4" O-Ring Drain Port

STEP 4 - Select a shaft option

- | | | | |
|----|------------------|----|----------------------------|
| 23 | 14 Tooth Spline* | 41 | 50mm Straight* |
| 30 | 1-1/2" Straight* | 42 | 16 Tooth Spline* |
| 33 | 17 Tooth Spline* | 47 | 2-1/4" Straight Extended** |
| 36 | 40mm Straight* | 68 | 50mm Straight Extended** |
| 38 | 45mm Tapered** | D3 | 60mm Tapered** |
| 40 | 2-1/4" Straight* | | |

NOTE: * These shafts available on the C8 & E8 housings only. ** These housings available on the D8 & W8 housings only.

STEP 5 - Select a paint option

- A Black
- B Black (unpainted flange face)
- Z No Paint

STEP 6 - Select a valve cavity option

- A None

STEP 7 - Select an add on option

- A Standard

STEP 8 - Select a miscellaneous option

- AA None



Delivering The Power To Get Work Done.

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