



D9

SERIES HYDRAULIC MOTORS

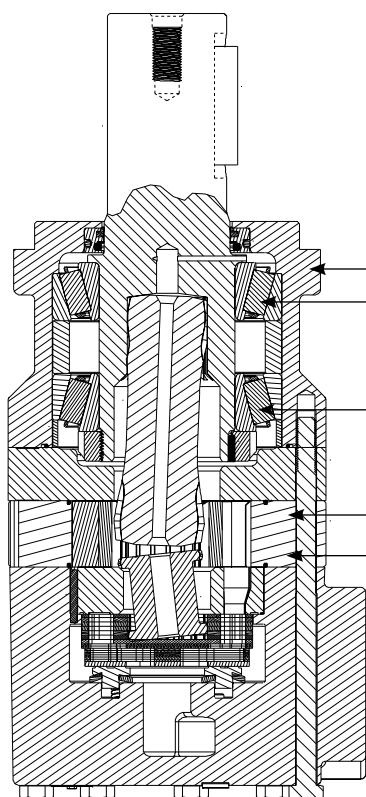
苏州帕凯德自动化有限公司

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.

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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]
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256 cc [15.6 in³/rev.]

Torque - Nm [lb-in], Speed rpm

Intermittent Ratings - 10% of Operation

Flow - lpm [gpm]	8 [2]
	23 [6]
	45 [12]
	68 [18]
	91 [24]
	114 [30]
Max. Cont.	136 [36]
Max. Inter.	159 [42]
	182 [48]

39 [341]	97 [858]	213 [1883]	328 [2900]	441 [3903]	552 [4886]	661 [5848]	
27	26	24	21	19	15	12	
	108 [958]	233 [2058]	358 [3169]	482 [4263]	601 [5322]	718 [6351]	830 [7349]
	84	81	78	74	70	66	62
	112 [992]	241 [2134]	372 [3289]	502 [4439]	630 [5572]	755 [6679]	877 [7761]
	171	168	164	159	153	146	139
	110 [976]	241 [2132]	373 [3297]	506 [4477]	635 [5617]	764 [6760]	891 [7885]
	258	255	250	245	237	230	222
	105 [929]	236 [2091]	370 [3270]	502 [4441]	631 [5587]	761 [6738]	890 [7878]
	346	342	338	331	324	315	306
	97 [855]	229 [2024]	359 [3178]	494 [4374]	627 [5544]	757 [6700]	883 [7818]
	434	430	425	419	412	402	388
	87 [768]	218 [1933]	352 [3115]	483 [4271]	617 [5463]	750 [6633]	878 [7766]
	522	518	512	505	497	488	477
	76 [669]	206 [1827]	340 [3009]	474 [4194]	608 [5376]	738 [6535]	
	611	607	601	594	585	576	
	62 [546]	193 [1712]	327 [2891]	460 [4070]	594 [5257]	726 [6426]	
	701	696	690	683	674	664	

Theoretical rpm	30
	89
	178
	267
	355
	444
	533
	622
	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]
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294 cc [17.9 in³/rev.]

Torque - Nm [lb-in], Speed rpm

Intermittent Ratings - 10% of Operation

Flow - lpm [gpm]	8 [2]
	23 [6]
	45 [12]
	68 [18]
	91 [24]
	114 [30]
Max. Cont.	136 [36]
Max. Inter.	159 [42]
	182 [48]
	204 [54]

52 [458]	119 [1053]	252 [2234]	382 [3379]	511 [4521]	636 [5633]		
23	21	19	16	12	9		
	127 [1124]	268 [2376]	410 [3625]	549 [4854]	686 [6069]	819 [7250]	949 [8398]
	72	68	65	60	55	50	45
	130 [1152]	275 [2434]	422 [3731]	568 [5025]	713 [6313]	856 [7578]	996 [8815]
	147	143	138	132	125	119	113
	129 [1141]	277 [2452]	427 [3777]	575 [5092]	722 [6392]	869 [7690]	1013 [8961]
	222	218	213	206	199	191	183
	124 [1097]	274 [2422]	424 [3753]	573 [5074]	722 [6390]	871 [7707]	1019 [9014]
	298	294	288	281	272	264	255
	115 [1022]	266 [2356]	418 [3700]	569 [5032]	719 [6362]	867 [7673]	1016 [8987]
	375	371	364	357	348	339	330
	104 [924]	255 [2256]	407 [3601]	559 [4947]	710 [6279]	860 [7615]	1009 [8925]
	453	448	442	434	426	416	405
	92 [814]	242 [2144]	395 [3498]	547 [4845]	699 [6183]	848 [7506]	999 [8837]
	530	525	517	509	500	490	480
	78 [686]	227 [2011]	379 [3357]	533 [4715]	685 [6062]	838 [7414]	
	608	602	595	586	577	566	
	61 [543]	212 [1872]	364 [3219]	518 [4582]	670 [5932]	822 [7272]	
	688	682	674	665	655	644	

Theoretical rpm	26
	78
	155
	232
	310
	387
	464
	541
	619
	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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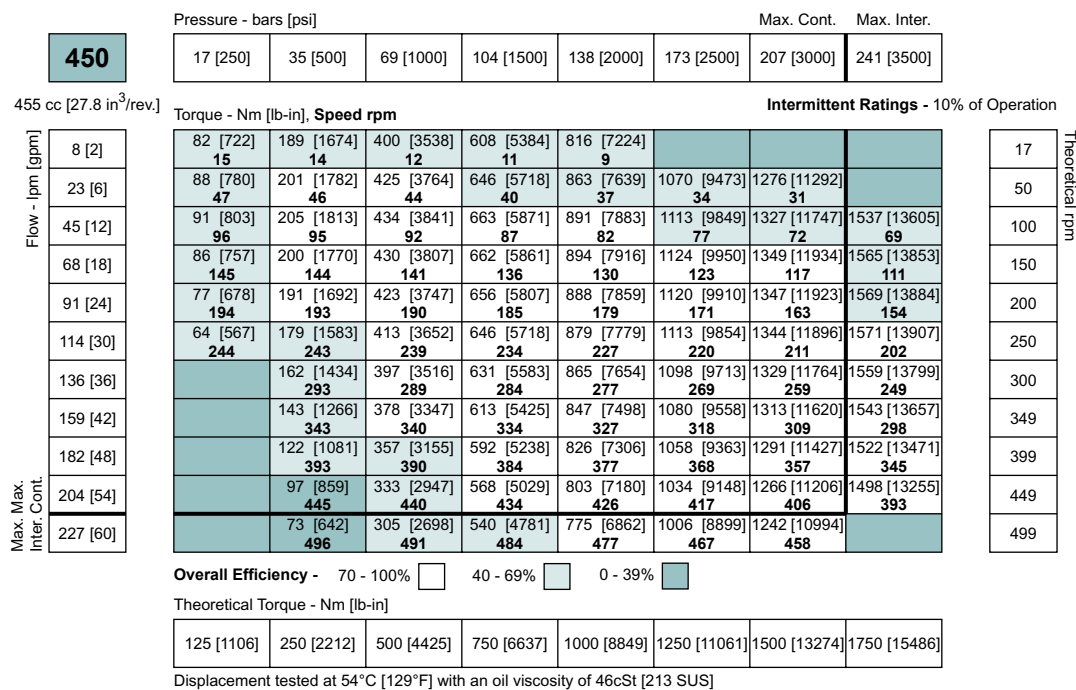
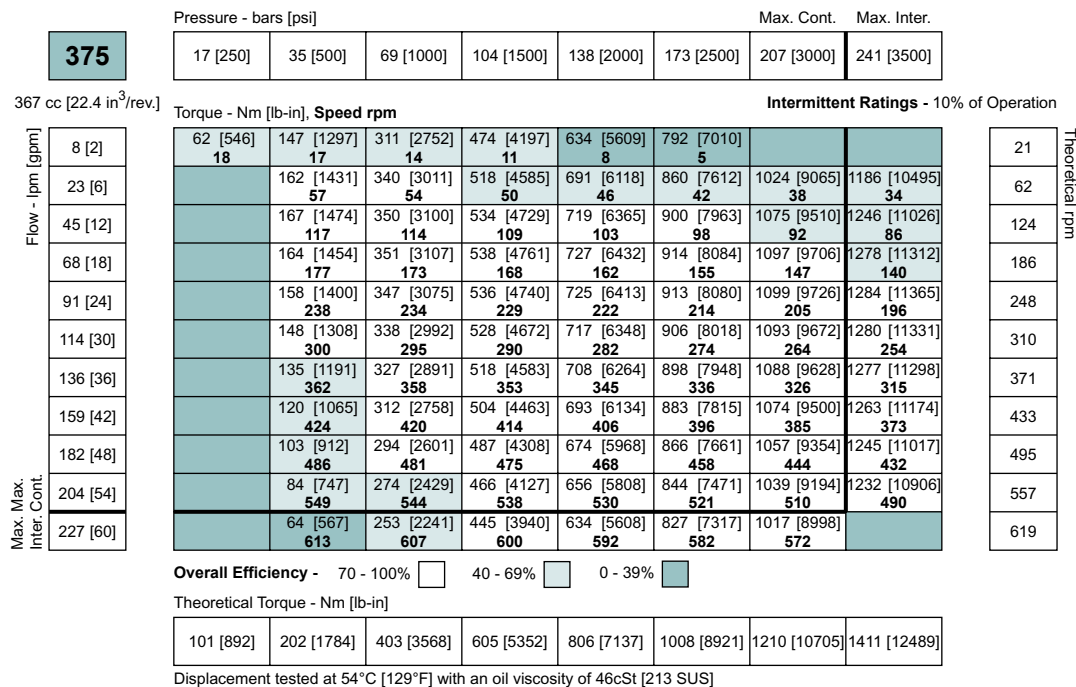
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]

D9

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PERFORMANCE



**525**

Pressure - bars [psi]

Max. Cont. Max. Inter.

17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	241 [3500]
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525 cc [32.1 in³/rev.]

Torque - Nm [lb-in], Speed rpm

Intermittent Ratings - 10% of Operation

Flow - lpm [gpm]	8 [2]	105 [929] 13	230 [2031] 12	472 [4175] 10	707 [6257] 8	940 [8317] 6			15	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	44	
	45 [12]	112 [989] 83	245 [2165] 82	512 [4529] 78	778 [6887] 74	1041 [9212] 68	1296 [11468] 63	1543 [13653] 59	87	
	68 [18]	105 [927] 125	238 [2107] 124	508 [4497] 120	779 [6890] 115	1045 [9251] 109	1306 [11560] 102	1560 [13804] 95	130	
	91 [24]	93 [824] 168	226 [2002] 166	496 [4394] 163	767 [6789] 158	1038 [9189] 151	1306 [11558] 144	1569 [13888] 136	173	
	114 [30]	79 [696] 211	212 [1874] 209	484 [4283] 205	755 [6683] 200	1026 [9079] 193	1295 [11457] 185	1560 [13809] 177	217	
	136 [36]		193 [1710] 253	465 [4414] 249	736 [6513] 243	1007 [8912] 236	1279 [11318] 228	1549 [13706] 219	260	
	159 [42]		170 [1504] 296	444 [3925] 292	715 [6330] 287	986 [8726] 280	1257 [11125] 272	1526 [13507] 262	303	
	182 [48]		147 [1305] 339	420 [3716] 335	692 [6120] 328	961 [8509] 321	1233 [10914] 314	1505 [13321] 303	346	
	204 [54]		118 [1041] 384	390 [3450] 379	661 [5850] 374	934 [8269] 366	1205 [10660] 358	1475 [13050] 348	389	
Max. Max. Inter. Cont.	227 [60]		88 [778] 429	359 [3181] 423	631 [5582] 417	902 [7980] 409	1174 [10386] 400	1443 [12768] 391	433	

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]
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623 cc [38.1 in³/rev.]

Torque - Nm [lb-in], Speed rpm

Intermittent Ratings - 10% of Operation

Flow - lpm [gpm]	8 [2]	132 [1169] 10	273 [2419] 10	553 [4896] 8	832 [7365] 7	1105 [9778] 6			13	Theoretical rpm
	23 [6]	144 [1273] 34	300 [2656] 34	609 [5393] 32	916 [8102] 31	1204 [10655] 28	1479 [13090] 21		37	
	45 [12]	141 [1247] 70	303 [2682] 69	624 [5521] 67	945 [8362] 66	1249 [11049] 56	1559 [13797] 58	1846 [16339] 53	73	
	68 [18]	133 [1179] 106	295 [2613] 105	619 [5478] 104	942 [8340] 101	1263 [11180] 98	1576 [13949] 93	1877 [16607] 86	110	
	91 [24]	120 [1061] 142	281 [2486] 141	607 [5368] 140	932 [8251] 137	1255 [11102] 133	1572 [13913] 128	1882 [16659] 121	146	
	114 [30]	100 [886] 178	261 [2309] 177	586 [5183] 175	910 [8053] 172	1234 [10916] 167	1552 [13738] 161	1860 [16456] 155	183	
	136 [36]	78 [694] 214	238 [2106] 213	562 [4971] 211	888 [7859] 208	1213 [10731] 203	1533 [13571] 197	1839 [16274] 190	219	
	159 [42]	53 [469] 251	210 [1855] 250	532 [4711] 248	857 [7585] 245	1183 [10471] 240	1506 [13325] 234	1827 [16171] 227	255	
	182 [48]		180 [1591] 287	503 [4453] 285	827 [7315] 281	1151 [10189] 277	1475 [13050] 270	1795 [15888] 262	292	
	204 [54]		146 [1295] 324	470 [4155] 322	793 [7021] 318	1118 [9898] 313	1440 [12742] 306	1758 [15558] 299	328	
Max. Max. Inter. Cont.	227 [60]		111 [982] 361	433 [3829] 359	756 [6693] 355	1080 [9555] 349	1401 [12401] 343	1722 [15238] 335	365	

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

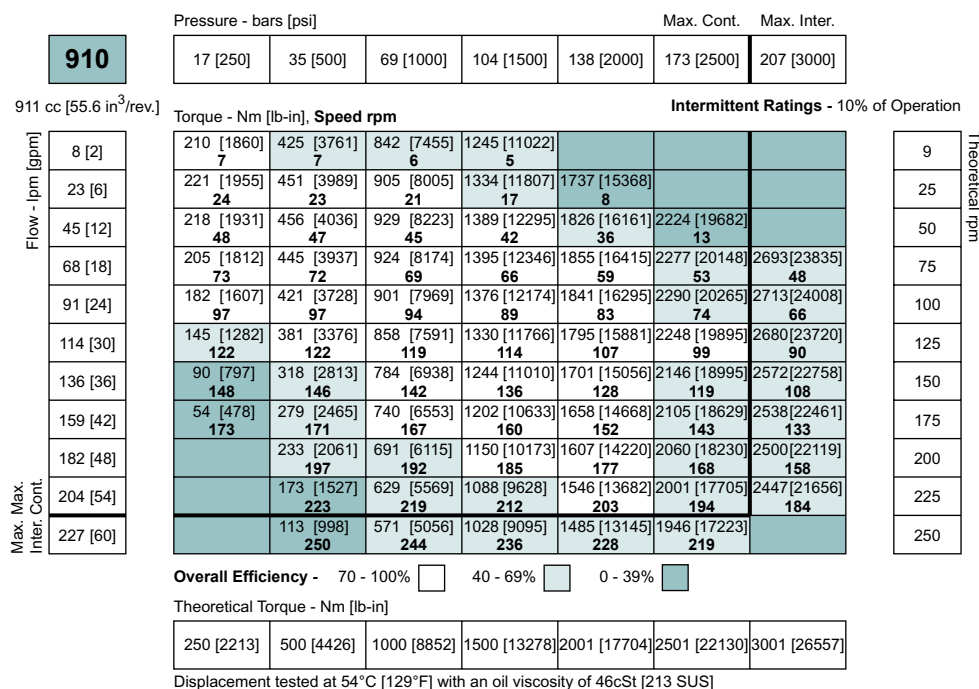
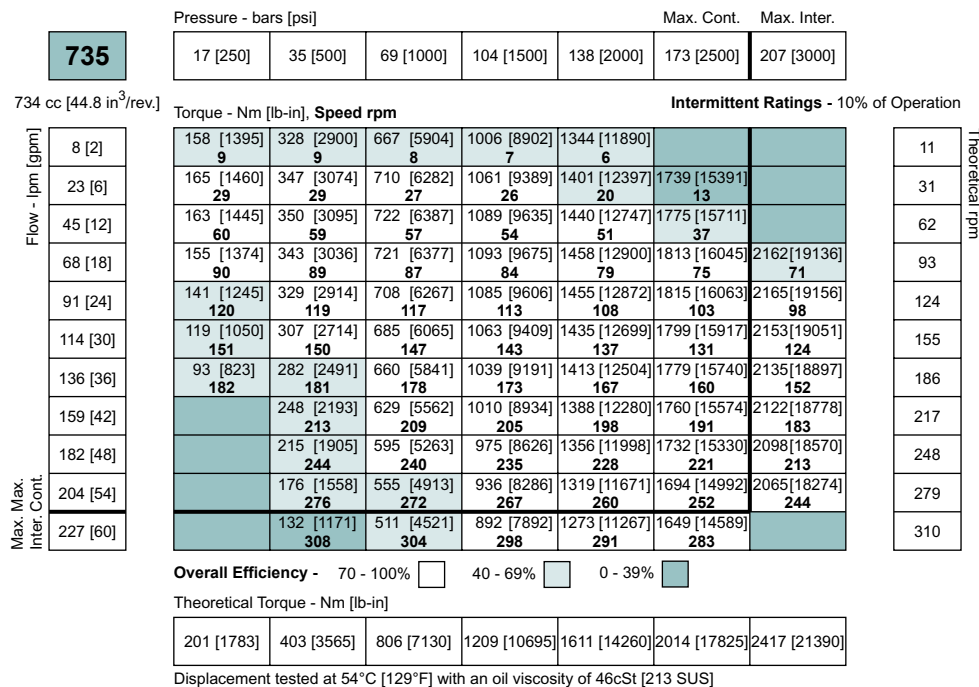
Theoretical Torque - Nm [lb-in]

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]



PERFORMANCE





1K0

Pressure - bars [psi] Max. Cont. Max. Inter.

17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]
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1027 cc [62.7 in³/rev.]

Torque - Nm [lb-in], Speed rpm

Intermittent Ratings - 10% of Operation

Flow - lpm [gpm]	8 [2]	227 [2006]	467 [4134]	945 [8363]	1416 [12528]	1884 [16673]		8	Theoretical rpm
	23 [6]	239 [2118]	495 [4380]	1000 [8851]	1487 [13156]	1947 [17228]		23	
	45 [12]	238 [2102]	503 [4454]	1030 [9111]	1544 [13666]	2013 [17815]		45	
	68 [18]	225 [1988]	494 [4373]	1029 [9105]	1556 [13770]	2055 [18186]	2526 [22350]	67	
	91 [24]	198 [1753]	467 [4135]	1007 [8911]	1539 [13615]	2048 [18127]	2531 [22399]	89	
	114 [30]	167 [1479]	437 [3871]	978 [8651]	1512 [13384]	2037 [18025]	2535 [22434]	111	
	136 [36]	129 [1139]	399 [3527]	940 [8319]	1477 [13069]	2004 [17733]	2513 [22235]	133	
	159 [42]	87 [773]	353 [3124]	894 [7910]	1432 [12671]	1964 [17381]	2465 [21818]	155	
	182 [48]		303 [2684]	844 [7472]	1383 [12241]	1917 [16964]	2435 [21550]	177	
	204 [54]		246 [2180]	785 [6950]	1324 [11718]	1856 [16429]	2360 [20883]	199	
Max. Max. Inter. Cont.	227 [60]		183 [1617]	723 [6400]	1260 [11150]	1793 [15872]	2319 [20522]	222	
			220	217	213	206	198		

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

Theoretical Torque - Nm [lb-in]

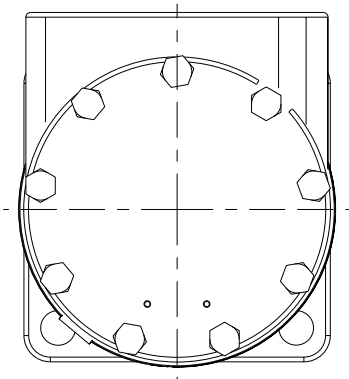
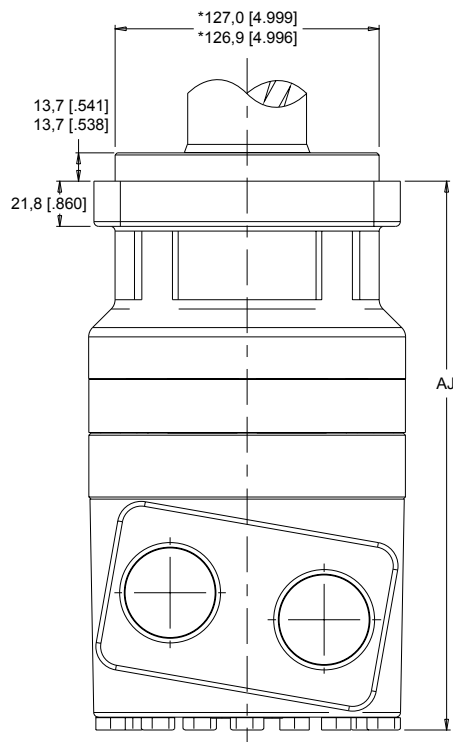
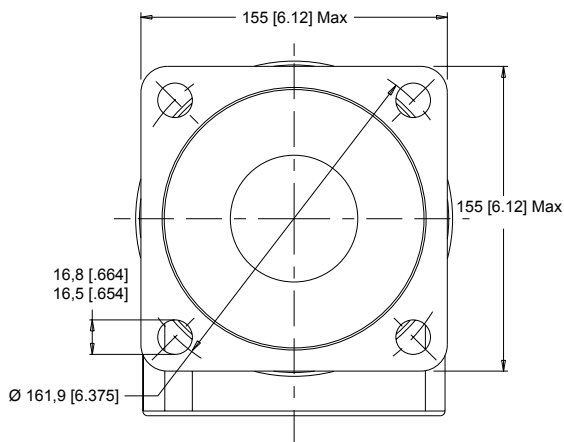
282 [2495]	564 [4990]	1128 [9981]	1692 [14971]	2256 [19961]	2820 [24952]
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Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]



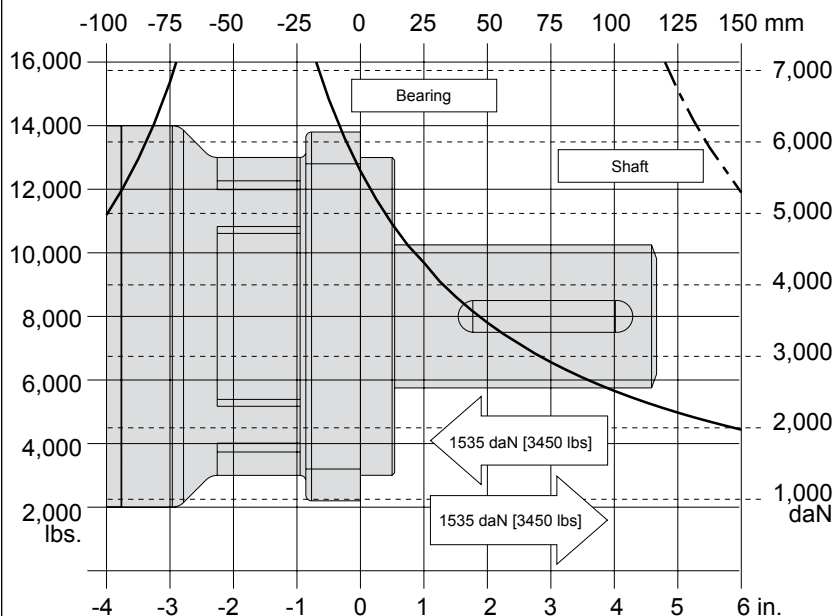
800 & 801 SERIES HOUSINGS

- 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

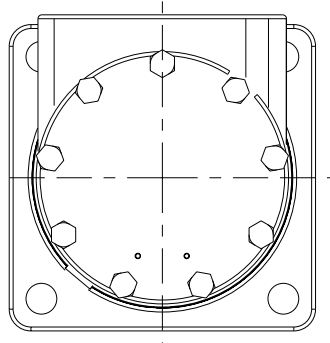
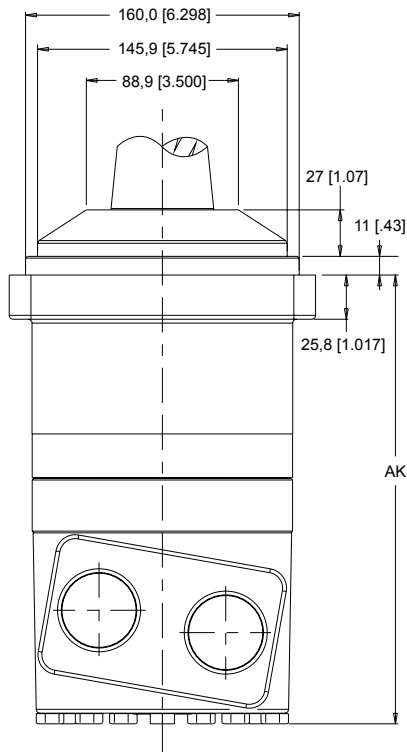
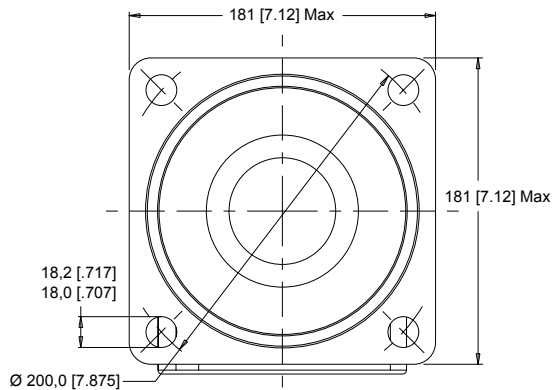
RPM	FACTOR	RPM	FACTOR
50	1.23	500	0.62
100	1.00	600	0.58
200	0.81	700	0.56
300	0.72	800	0.50
400	0.66		

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



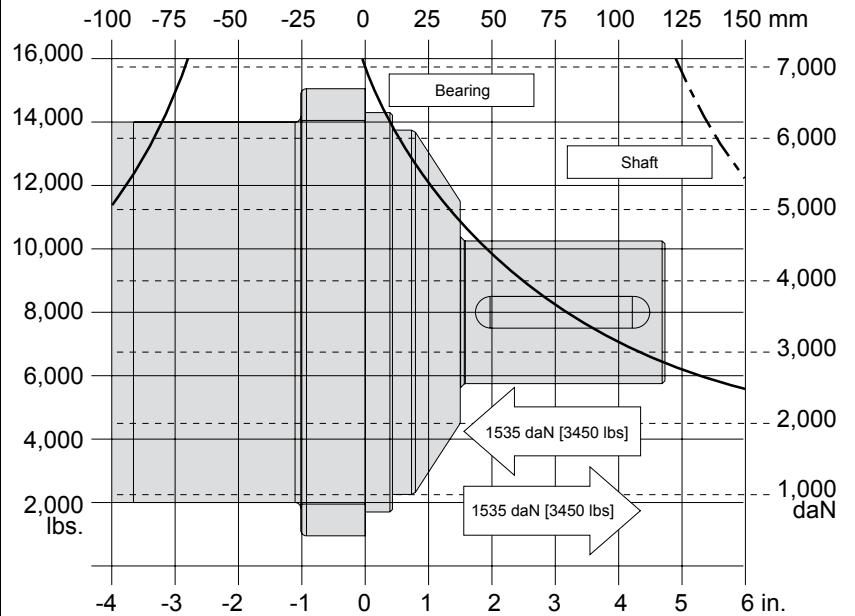
800 & 801 SERIES HOUSINGS

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.

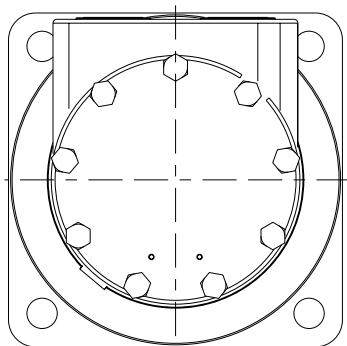
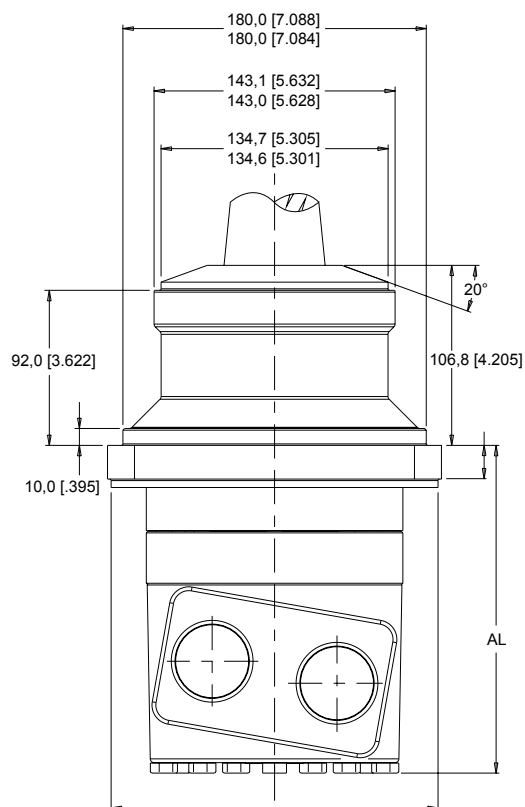
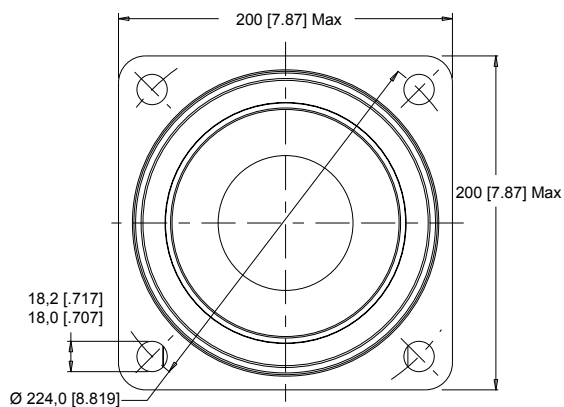
D9

800 & 801 SERIES HOUSINGS

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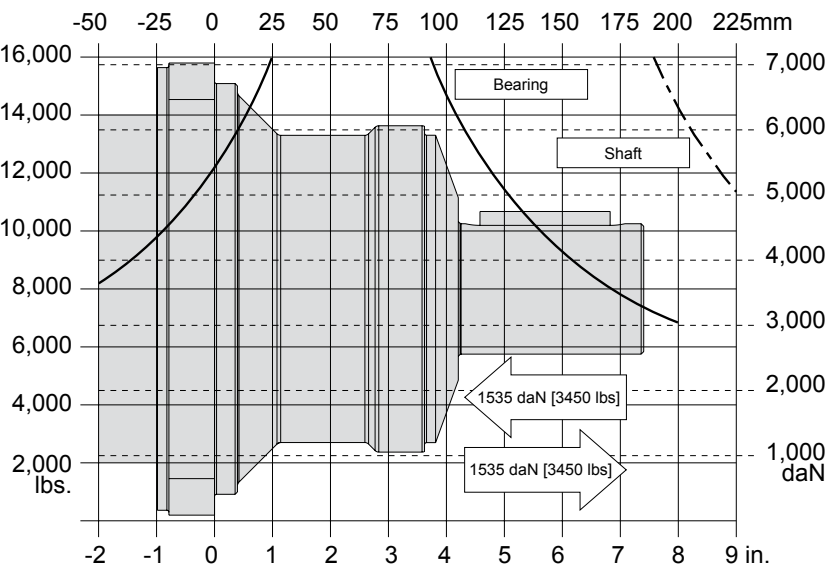


W8 4-Hole Wheel Mount Side Ports



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]

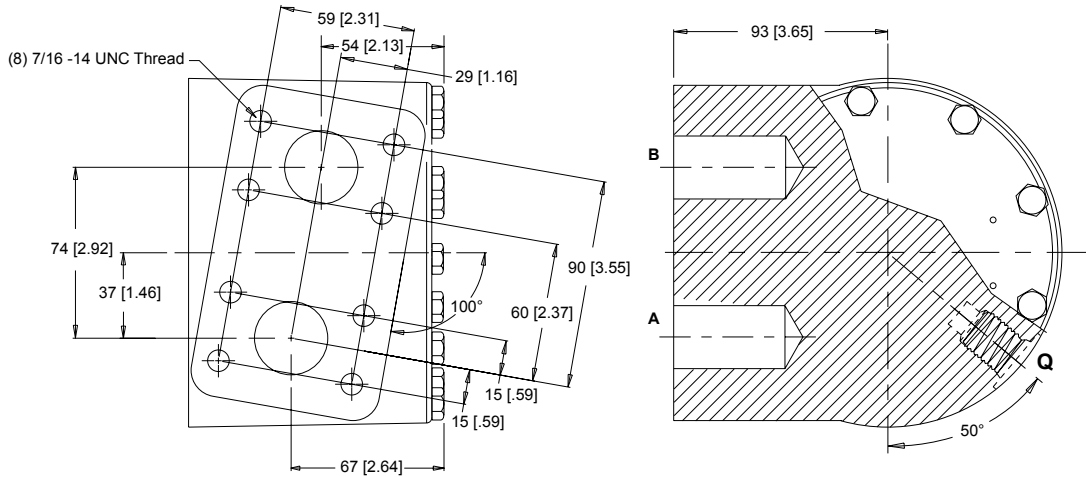
NOTE:

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

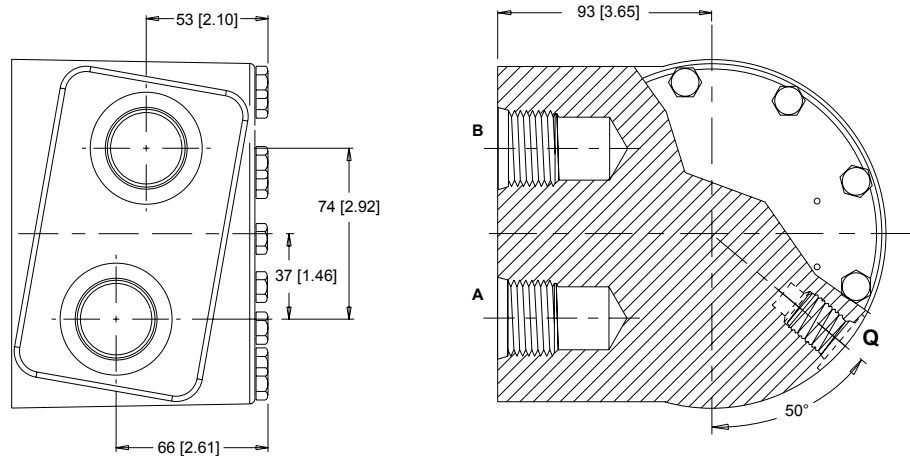


800 & 801 SERIES PORTING OPTIONS

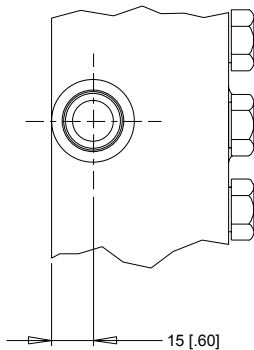
0 1-1/4" Split Flange with 3/4" O-Ring Drain Port



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



Q - Case Drain



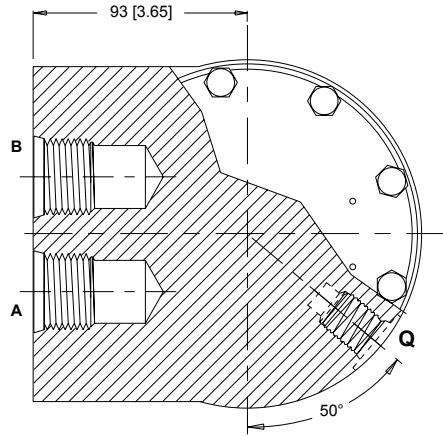
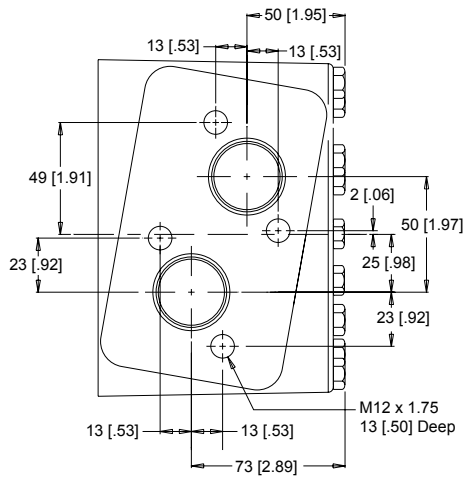
NOTE: The D9 is designed to run with a case drain. Sealing off the case drain can over-pressurize the shaft seal causing seal failure.



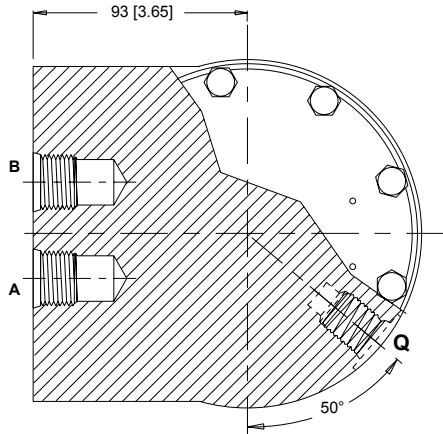
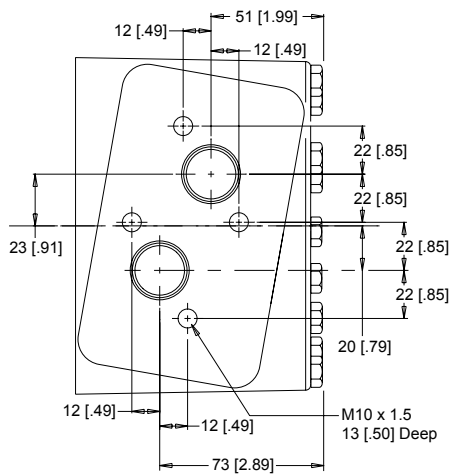
D9

800 & 801 SERIES PORTING OPTIONS

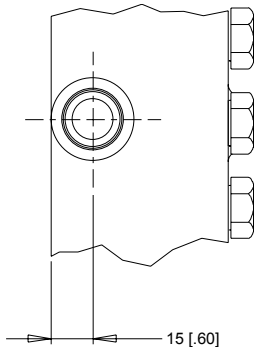
8 1" BSP.F with 1/4" BSP.F Drain Port



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



Q - Case Drain



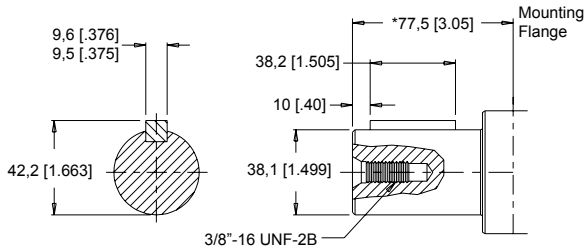
NOTE: The D9 is designed to run with a case drain. Sealing off the case drain can over-pressurize the shaft seal causing seal failure.



800 & 801 SERIES SHAFTS

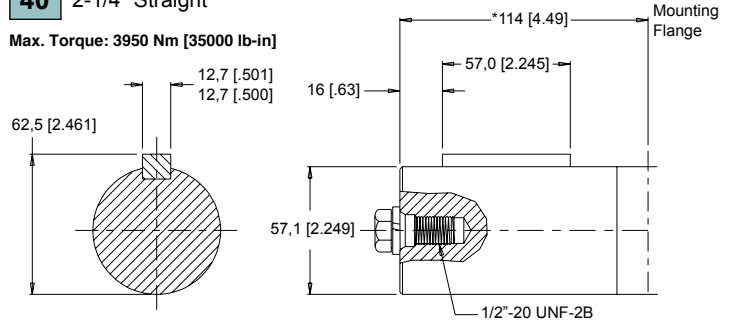
30 1-1/2" Straight

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



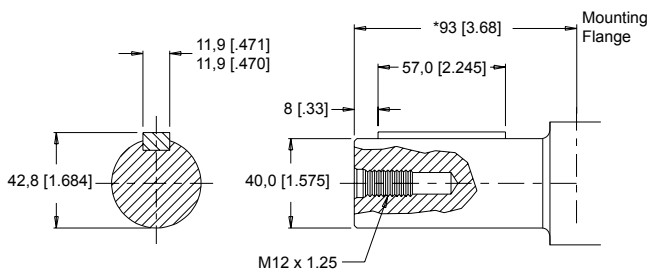
40 2-1/4" Straight

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



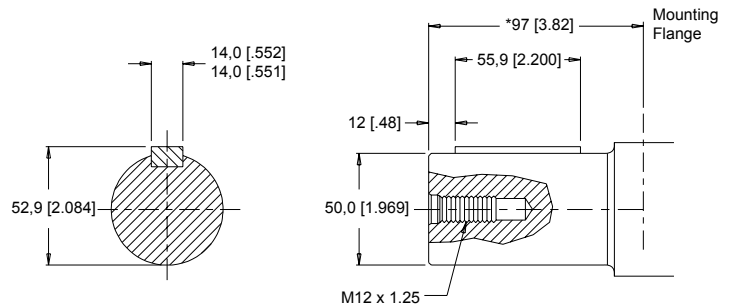
36 40mm Straight

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



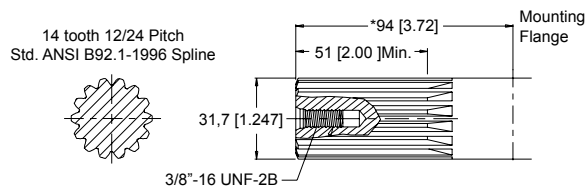
41 50mm Straight

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



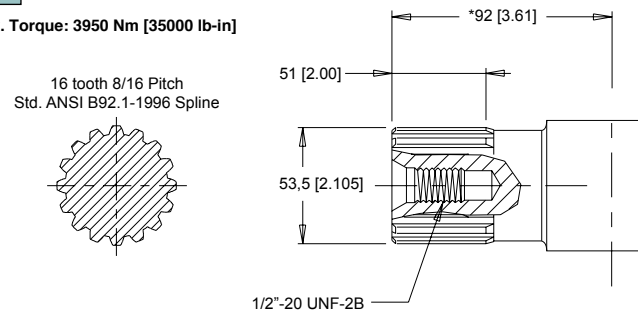
23 14 Tooth Spline

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



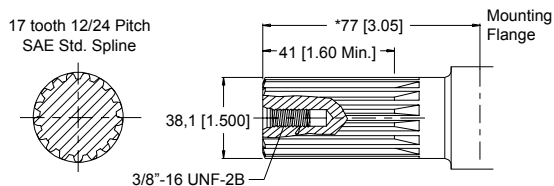
42 16 Tooth Spline

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].

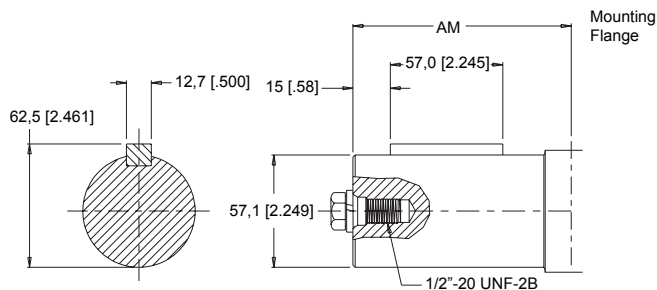


D9

800 & 801 SERIES SHAFTS

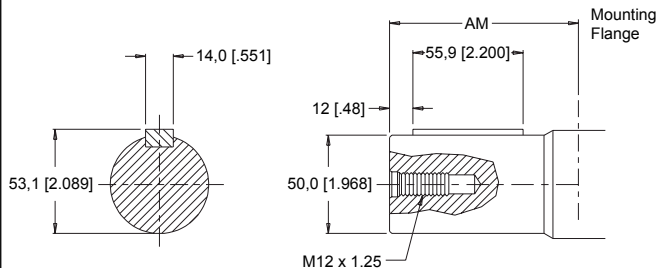
47 2-1/4" Straight Extended

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



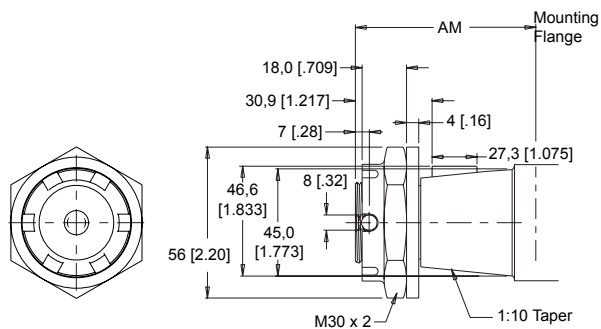
68 50mm Straight Extended

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



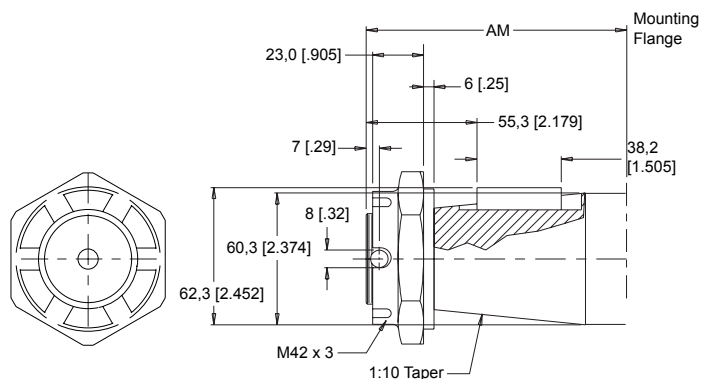
38 45mm Tapered

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 $\pm 0,8$ [0.030].

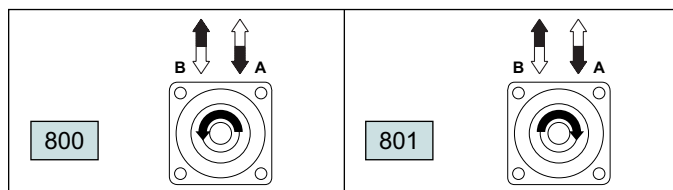


800 & 801 SERIES MODEL CODE BUILDER

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
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STEP 7 - Select an add on option

A	Standard
---	----------

STEP 8 - Select a miscellaneous option

AA	None
----	------



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