

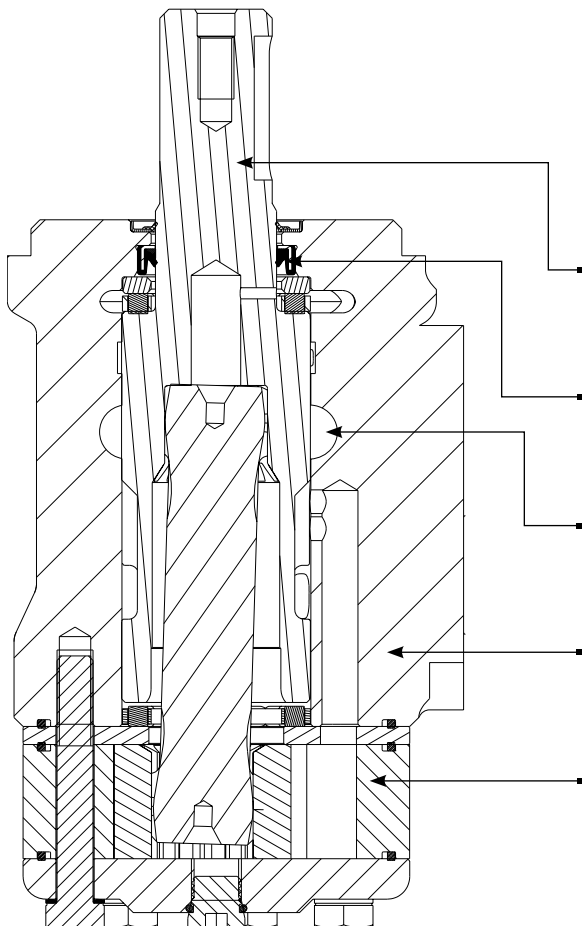
white drive products



WP

SERIES HYDRAULIC MOTORS

The WP motor series is an economical alternative to more complex geroler designs that still provides high efficiency across a wide performance range. These motors are intended for medium-duty applications requiring high torque in a compact package and are suitable for industrial and mobile applications including car wash brushes, food processing equipment, conveyors, machine tools, agricultural equipment, sweepers, skid steer attachments, and more.



KEY FEATURES

Variety of Mounts and Shafts provide flexibility in application design.

High Pressure Shaft Seal offers superior seal life and performance.

Spool Valve Design gives superior performance and smooth operation over a wide speed and torque range.

Built-In Check Valves (not shown) in the housing offers versatility and increased seal life.

Integral Roller Stator® Motor Design provides compact volume, high power & low weight.

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
050	50 [3.0]	1208	1500	60 [16]	75 [20]	91 [805]	108 [956]	140 [2030]	175 [2540]	240 [3480]
060	59 [3.6]	1185	1271	60 [16]	75 [20]	125 [1106]	136 [1204]	160 [2320]	175 [2540]	240 [3480]
080	78 [4.8]	896	960	60 [16]	75 [20]	164 [1451]	183 [1620]	160 [2320]	175 [2540]	240 [3480]
100	96 [5.9]	728	780	60 [16]	75 [20]	195 [1726]	213 [1885]	160 [2320]	175 [2540]	240 [3480]
125	125 [7.6]	559	599	60 [16]	75 [20]	258 [2285]	278 [2460]	160 [2320]	175 [2540]	240 [3480]
160	154 [9.4]	452	483	60 [16]	75 [20]	321 [2840]	362 [3205]	160 [2320]	175 [2540]	240 [3480]
200	190 [11.6]	367	385	60 [16]	75 [20]	380 [3365]	420 [3720]	150 [2180]	175 [2540]	240 [3480]
250	240 [14.6]	291	312	60 [16]	75 [20]	445 [3940]	557 [4930]	140 [2030]	175 [2540]	240 [3480]
315	303 [18.5]	228	245	60 [16]	75 [20]	460 [4071]	602 [5330]	120 [1740]	160 [2320]	200 [2900]
400	388 [23.7]	155	189	60 [16]	75 [20]	488 [4320]	625 [5532]	95 [1380]	125 [1810]	180 [2610]

**050**

Pressure - bars [psi]

Max. Cont.

Max. Inter.

30 [435]	60 [870]	80 [1160]	100 [1450]	120 [1740]	140 [2030]	160 [2320]	175 [2540]
----------	----------	-----------	------------	------------	------------	------------	------------

50 cc [3.0 in³/rev.]

Torque - Nm [lb-in], Speed rpm

Intermittent Ratings - 10% of Operation

Flow - lpm [gpm]	5 [1.3]
	10 [2.6]
	20 [5.3]
	30 [7.9]
	40 [10.6]
	50 [13.2]
Max. Cont.	60 [15.8]
	70 [18.5]
Max. Inter.	75 [19.8]

19 [168] 100	39 [345] 85	48 [425] 75	62 [549] 64	75 [664] 48			
20 [177] 197	38 [336] 196	50 [442] 174	63 [558] 159	78 [690] 146	92 [814] 127	102 [903] 101	107 [947] 97
18 [159] 400	38 [336] 386	52 [460] 371	64 [566] 355	78 [690] 341	90 [796] 314	104 [920] 292	108 [956] 290
15 [133] 600	37 [327] 585	50 [442] 571	64 [566] 560	77 [681] 540	89 [788] 516	103 [912] 499	107 [947] 495
12 [106] 808	31 [274] 800	45 [398] 790	59 [522] 770	73 [646] 766	87 [770] 733	99 [876] 703	106 [938] 697
9 [80] 1009	27 [239] 1006	41 [363] 986	55 [487] 982	68 [602] 964	84 [743] 956	98 [867] 930	105 [929] 872
6 [53] 1208	24 [212] 1200	37 [327] 1196	53 [469] 1188	64 [566] 1176	82 [726] 1160	95 [841] 1140	102 [903] 963
3 [27] 1410	17 [150] 1396	32 [283] 1382	44 [389] 1370	58 [513] 1358	80 [708] 1347	93 [823] 1334	98 [867] 1315
	15 [133] 1500	30 [265] 1488	40 [354] 1473	56 [496] 1457	77 [681] 1439	88 [779] 1412	93 [823] 1388

Theoretical rpm	101
	202
	404
	606
	808
	1010
	1212
	1414
	1515

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

Theoretical Torque - Nm [lb-in]

24 [212]	47 [416]	63 [558]	79 [699]	95 [841]	110 [973]	126 [1115]	138 [1221]
----------	----------	----------	----------	----------	-----------	------------	------------

Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]

060

Pressure - bars [psi]

Max. Cont.

Max. Inter.

30 [435]	60 [870]	80 [1160]	100 [1450]	120 [1740]	140 [2030]	160 [2320]	175 [2540]
----------	----------	-----------	------------	------------	------------	------------	------------

59 cc [3.6 in³/rev.]

Torque - Nm [lb-in], Speed rpm

Intermittent Ratings - 10% of Operation

Flow - lpm [gpm]	5 [1.3]
	10 [2.6]
	20 [5.3]
	30 [7.9]
	40 [10.6]
	50 [13.2]
Max. Cont.	60 [15.8]
	70 [18.5]
Max. Inter.	75 [19.8]

20 [177] 83	46 [407] 79	65 [575] 72	80 [708] 64	95 [841] 51	112 [991] 38		
22 [195] 169	47 [416] 164	66 [584] 155	81 [717] 142	96 [850] 135	113 [1000] 124	125 [1106] 108	136 [1204] 88
20 [177] 338	45 [398] 332	64 [566] 320	80 [708] 309	93 [823] 290	111 [982] 276	123 [1088] 245	134 [1186] 222
17 [150] 507	43 [381] 502	62 [549] 493	76 [673] 482	89 [788] 468	109 [965] 454	121 [1071] 424	131 [1159] 400
14 [124] 678	41 [363] 669	58 [513] 660	73 [646] 645	87 [770] 630	105 [929] 616	117 [1035] 594	127 [1124] 582
10 [88] 845	37 [327] 841	55 [487] 833	70 [619] 818	84 [743] 805	102 [903] 792	113 [1000] 770	122 [1080] 754
7 [62] 1014	34 [301] 1005	52 [460] 999	66 [584] 992	82 [726] 982	99 [876] 968	109 [965] 956	118 [1044] 933
4 [35] 1185	27 [239] 1182	47 [416] 1180	62 [549] 1175	76 [673] 1158	93 [823] 1144	104 [920] 1128	114 [1009] 1112
	22 [195] 1271	43 [381] 1265	58 [513] 1256	73 [646] 1241	86 [761] 1228	100 [885] 1212	110 [973] 1196

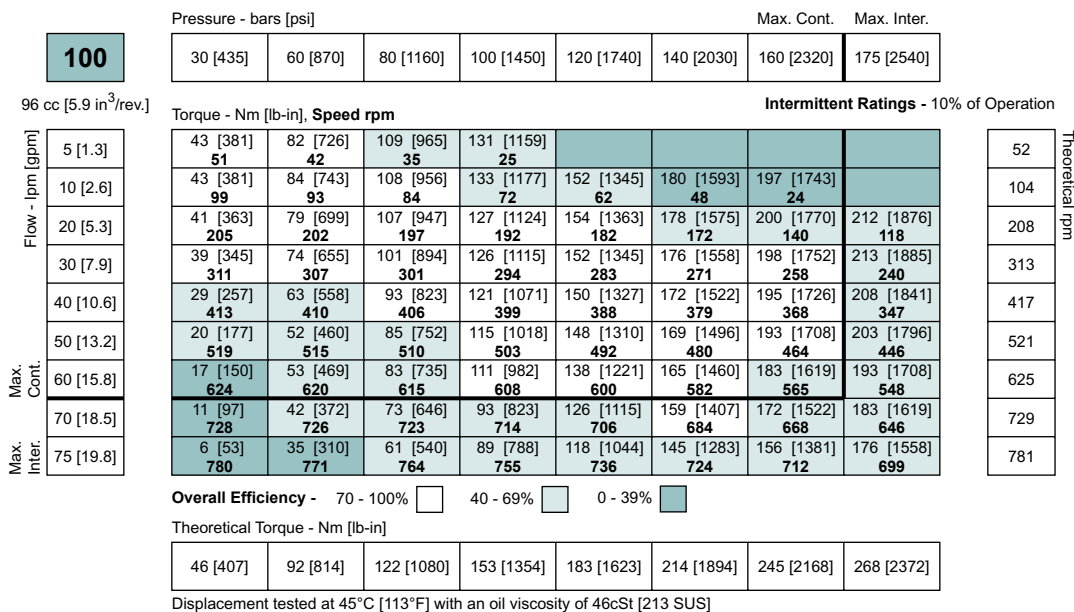
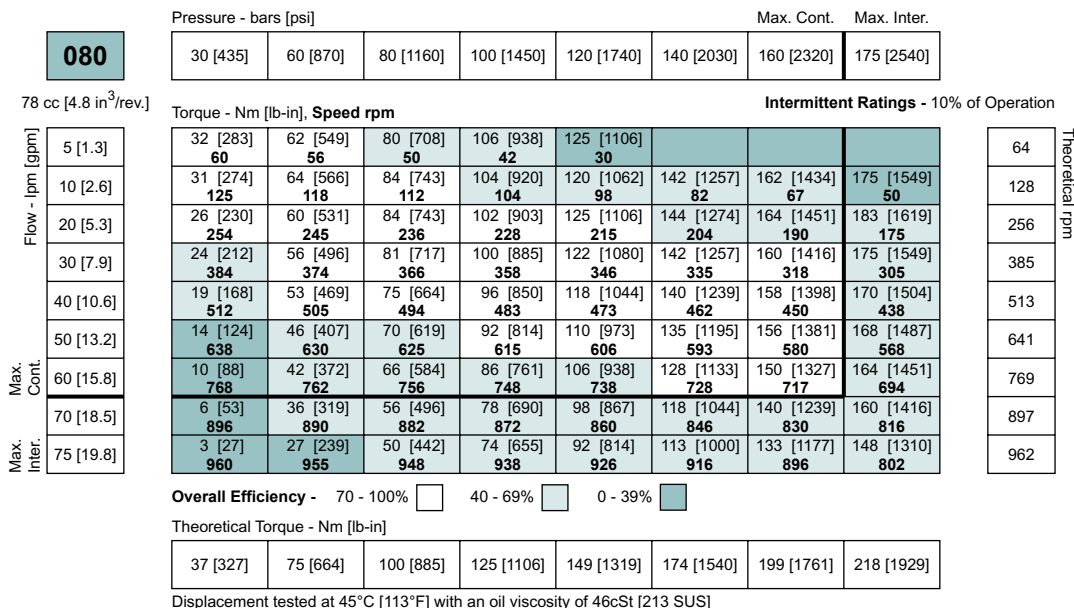
Theoretical rpm	85
	170
	339
	509
	678
	848
	1017
	1186
	1271

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

Theoretical Torque - Nm [lb-in]

28 [249]	56 [499]	75 [665]	94 [831]	113 [998]	132 [1164]	150 [1330]	164 [1455]
----------	----------	----------	----------	-----------	------------	------------	------------

Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]



**125**

Pressure - bars [psi]

Max. Cont. Max. Inter.

30 [435]	60 [870]	80 [1160]	100 [1450]	120 [1740]	140 [2030]	160 [2320]	175 [2540]
----------	----------	-----------	------------	------------	------------	------------	------------

125 cc [7.6 in³/rev.]

Torque - Nm [lb-in], Speed rpm

Intermittent Ratings - 10% of Operation

Flow - lpm [gpm]	5 [1.3]
	10 [2.6]
	20 [5.3]
	30 [7.9]
	40 [10.6]
	50 [13.2]
Max. Cont.	60 [15.8]
	70 [18.5]
Max. Inter.	75 [19.8]

52 [460] 38	95 [841] 35	135 [1195] 32	168 [1487] 27				
50 [442] 78	98 [867] 74	138 [1221] 69	172 [1522] 62	190 [1681] 54	234 [2071] 45	258 [2283] 35	
50 [442] 158	96 [850] 152	132 [1168] 144	168 [1487] 135	202 [1788] 124	236 [2088] 110	256 [2265] 94	278 [2460] 78
44 [389] 238	92 [814] 232	126 [1115] 225	164 [1451] 215	198 [1752] 210	232 [2053] 198	262 [2319] 168	268 [2372] 155
35 [310] 319	82 [726] 316	118 [1044] 312	160 [1416] 308	193 [1708] 300	226 [2000] 288	252 [2230] 262	266 [2354] 238
31 [274] 399	77 [681] 396	108 [956] 392	155 [1372] 383	182 [1611] 368	220 [1947] 354	238 [2106] 338	262 [2319] 326
15 [133] 479	64 [566] 478	97 [858] 475	146 [1292] 470	166 [1469] 463	210 [1858] 454	224 [1982] 443	256 [2265] 434
8 [71] 559	50 [442] 555	90 [796] 548	140 [1239] 538	162 [1434] 524	204 [1805] 516	209 [1850] 500	236 [2088] 488
	40 [354] 599	71 [628] 594	128 [1133] 588	158 [1398] 576	192 [1699] 565	199 [1761] 536	224 [1982] 524

Theoretical rpm	40
	80
	160
	240
	320
	400
	480
	560
	600

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

Theoretical Torque - Nm [lb-in]

60 [531]	119 [1053]	159 [1407]	199 [1761]	239 [2115]	279 [2469]	318 [2814]	348 [3080]
----------	------------	------------	------------	------------	------------	------------	------------

Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]

160

Pressure - bars [psi]

Max. Cont. Max. Inter.

30 [435]	60 [870]	80 [1160]	100 [1450]	120 [1740]	140 [2030]	160 [2320]	175 [2540]
----------	----------	-----------	------------	------------	------------	------------	------------

160 cc [9.4 in³/rev.]

Torque - Nm [lb-in], Speed rpm

Intermittent Ratings - 10% of Operation

Flow - lpm [gpm]	5 [1.3]
	10 [2.6]
	20 [5.3]
	30 [7.9]
	40 [10.6]
	50 [13.2]
Max. Cont.	60 [15.8]
	70 [18.5]
Max. Inter.	75 [19.8]

56 [496] 30	112 [991] 25	154 [1363] 18	201 [1779] 10				
58 [513] 63	115 [1018] 60	156 [1381] 56	205 [1814] 52	245 [2168] 48	285 [2522] 37		
60 [532] 128	123 [1089] 125	162 [1434] 121	202 [1788] 116	242 [2142] 110	282 [2496] 100	327 [2894] 86	360 [3186] 78
50 [443] 193	117 [1035] 190	157 [1389] 187	197 [1743] 183	238 [2106] 179	278 [2460] 173	322 [2850] 160	358 [3168] 144
48 [425] 257	113 [1000] 255	155 [1372] 252	195 [1726] 248	236 [2089] 244	273 [2416] 239	318 [2814] 224	355 [3142] 211
32 [283] 323	106 [938] 320	149 [1319] 316	188 [1664] 312	235 [2080] 306	267 [2363] 299	313 [2770] 288	352 [3115] 275
23 [204] 387	88 [779] 384	133 [1177] 380	178 [1575] 375	212 [1876] 371	260 [2301] 366	308 [2726] 358	342 [3027] 346
16 [142] 452	82 [726] 451	128 [1133] 448	170 [1505] 444	206 [1823] 436	255 [2257] 430	302 [2673] 423	331 [2929] 412
10 [89] 483	79 [699] 481	124 [1097] 477	164 [1451] 472	201 [1779] 466	248 [2195] 460	296 [2620] 450	319 [2823] 436

Theoretical rpm	32
	65
	130
	194
	258
	323
	387
	453
	485

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

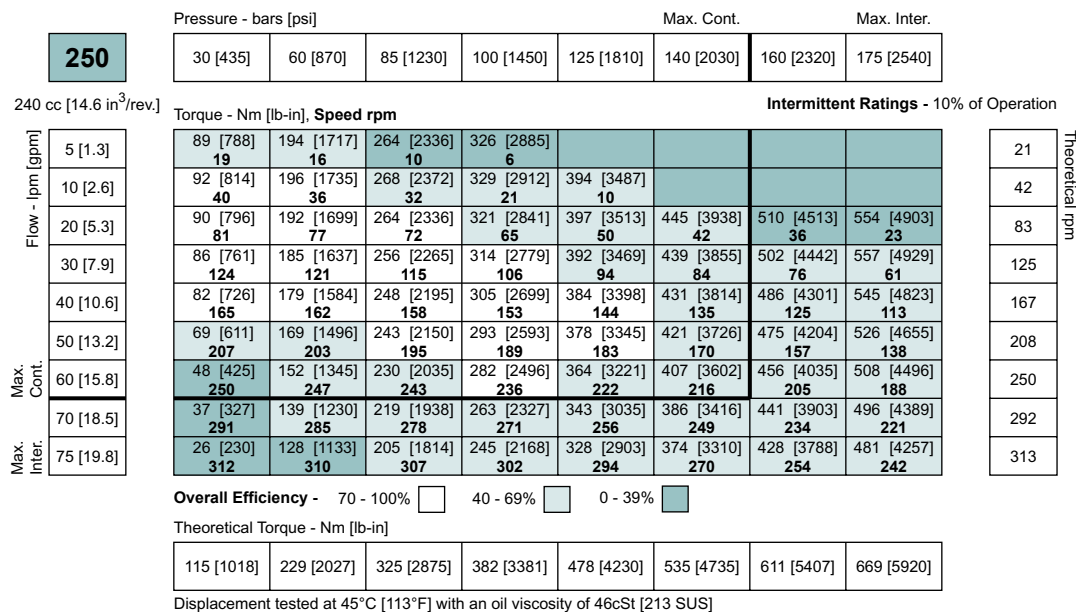
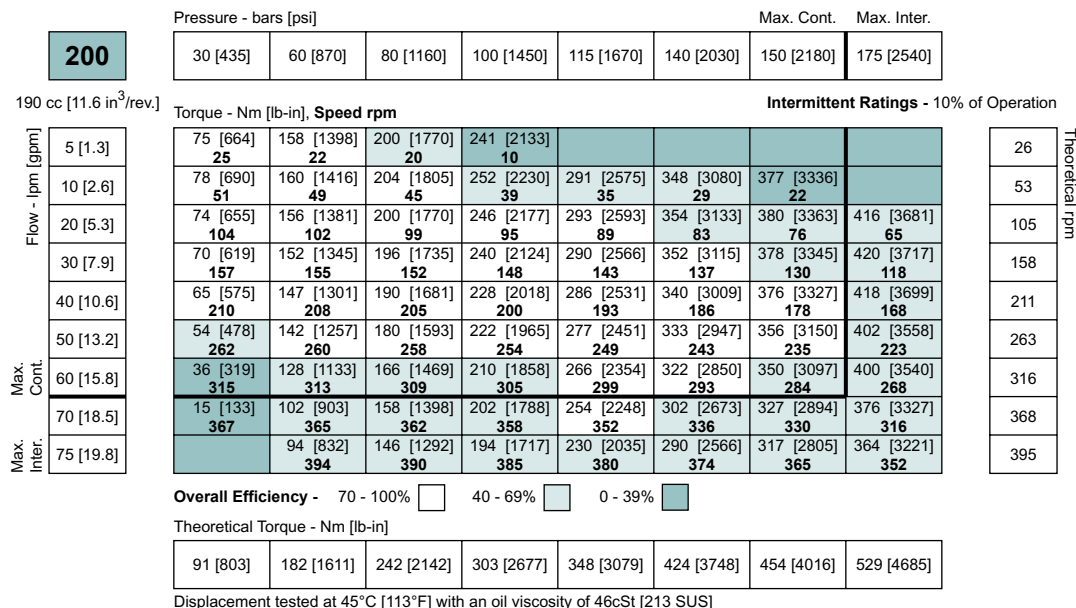
Theoretical Torque - Nm [lb-in]

74 [651]	147 [1302]	196 [1736]	245 [2170]	282 [2496]	343 [3038]	392 [3472]	429 [3798]
----------	------------	------------	------------	------------	------------	------------	------------

Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]



PERFORMANCE





315

Pressure - bars [psi]

Max. Cont.

Max. Inter.

30 [435]	50 [725]	70 [1015]	85 [1230]	100 [1450]	120 [1740]	140 [2030]	160 [2320]
----------	----------	-----------	-----------	------------	------------	------------	------------

303 cc [18.5 in³/rev.]

Torque - Nm [lb-in], Speed rpm

Intermittent Ratings - 10% of Operation

5 [1.3]
10 [2.6]
20 [5.3]
30 [7.9]
40 [10.6]
50 [13.2]
60 [15.8]
70 [18.5]
75 [19.8]

123 [1089] 16	200 [1770] 13	282 [2496] 10	344 [3044] 6				
117 [1035] 31	194 [1717] 29	277 [2451] 25	342 [3027] 21	399 [3531] 17			
112 [991] 64	196 [1735] 62	275 [2434] 58	340 [3009] 54	397 [3513] 49	460 [4071] 43	526 [4655] 32	605 [5354] 23
104 [920] 98	183 [1620] 94	267 [2363] 90	322 [2850] 85	390 [3452] 79	448 [3965] 70	520 [4602] 62	602 [5328] 56
86 [761] 129	168 [1487] 126	252 [2230] 122	304 [2690] 118	365 [3230] 113	440 [3894] 106	515 [4558] 99	588 [5204] 76
73 [646] 164	156 [1381] 160	238 [2106] 155	288 [2549] 150	350 [3098] 144	424 [3752] 136	500 [4425] 127	571 [5053] 119
60 [531] 195	140 [1239] 192	223 [1974] 188	270 [2390] 183	325 [2876] 176	396 [3505] 170	480 [4248] 164	546 [4832] 157
37 [327] 228	122 [1080] 226	186 [1646] 223	254 [2248] 218	309 [2735] 212	368 [3257] 206	455 [4027] 196	527 [4664] 188
23 [204] 245	100 [885] 242	174 [1540] 238	237 [2097] 233	293 [2593] 228	359 [3177] 222	444 [3929] 215	516 [4567] 206

17
33
66
99
132
165
198
231
248

Overall Efficiency - 60 - 100% ☐ 40 - 59% ☐ 0 - 39% ☐

Theoretical Torque - Nm [lb-in]

145 [1283]	241 [2133]	338 [2991]	410 [3628]	482 [4265]	579 [5124]	675 [5973]	772 [6832]
------------	------------	------------	------------	------------	------------	------------	------------

Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]

400

Pressure - bars [psi]

Max. Cont.

Max. Inter.

30 [435]	45 [650]	55 [800]	65 [940]	80 [1160]	95 [1380]	110 [1595]	125 [1810]
----------	----------	----------	----------	-----------	-----------	------------	------------

388 cc [23.7 in³/rev.]

Torque - Nm [lb-in], Speed rpm

Intermittent Ratings - 10% of Operation

5 [1.3]
10 [2.6]
20 [5.3]
30 [7.9]
40 [10.6]
50 [13.2]
60 [15.8]
70 [18.5]
75 [19.8]

144 [1274] 11	220 [1947] 10	270 [2389] 7	338 [2991] 5				
146 [1292] 25	223 [1973] 23	272 [2407] 20	340 [3009] 16	412 [3646] 10	488 [4319] 6		
145 [1283] 51	219 [1938] 50	269 [2381] 48	333 [2347] 45	408 [3611] 40	484 [4283] 35	548 [4850] 27	
138 [1221] 76	215 [1903] 75	262 [2319] 73	322 [2850] 70	402 [3558] 67	472 [4177] 59	546 [4832] 47	625 [5531] 36
120 [1062] 103	204 [1805] 102	250 [2212] 100	310 [2743] 96	393 [3478] 89	458 [4053] 82	535 [4735] 73	618 [5469] 62
100 [885] 129	186 [1646] 128	238 [2106] 125	295 [2611] 123	374 [3310] 119	446 [3947] 112	520 [4602] 102	600 [5310] 91
76 [673] 155	166 [1469] 153	222 [1965] 150	282 [2496] 148	358 [3168] 143	427 [3779] 139	496 [4389] 130	576 [5097] 121
50 [442] 179	145 [1283] 177	194 [1717] 174	250 [2212] 170	334 [2956] 165	402 [3558] 158	472 [4177] 152	540 [4779] 144
42 [372] 189	135 [1195] 187	176 [1558] 184	226 [2000] 180	306 [2708] 175	373 [3301] 167	445 [3938] 160	520 [4602] 150

13
26
52
77
103
129
155
180
190

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

Theoretical Torque - Nm [lb-in]

185 [1640]	278 [2460]	340 [3007]	402 [3554]	494 [4374]	587 [5194]	680 [6014]	772 [6834]
------------	------------	------------	------------	------------	------------	------------	------------

Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]

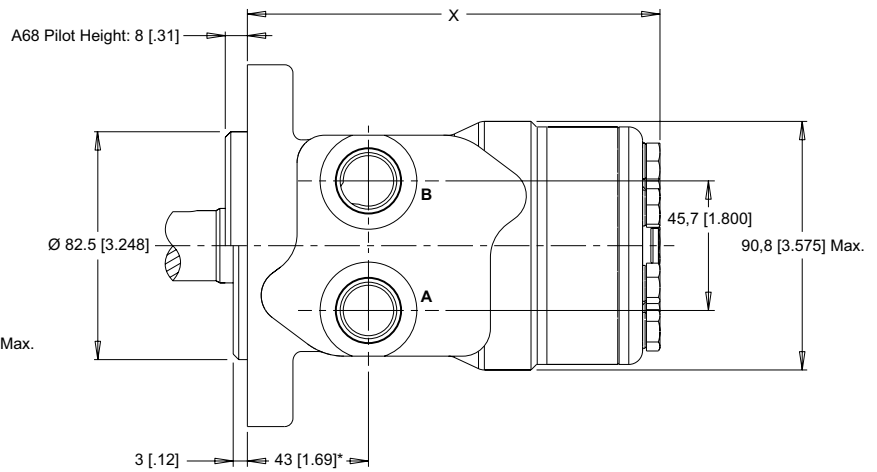
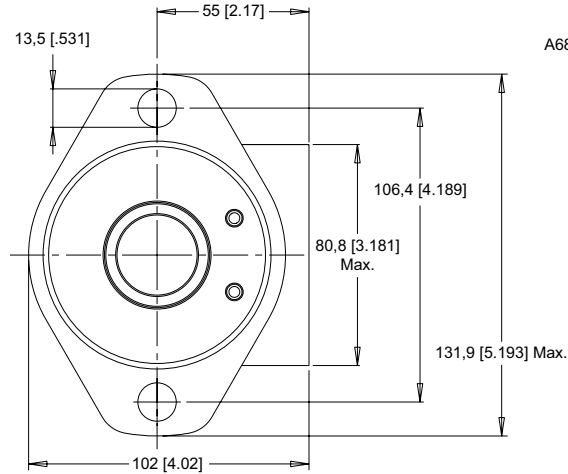
155 & 156 SERIES HOUSINGS (SAE A & MAGNETO MOUNTS)

A10 2-Hole 1/2" NPT Aligned Ports

A11 2-Hole 7/8" O-Ring Aligned Ports

A18 2-Hole 1/2" BSP.F Aligned Ports

A68 2-Hole 1/2" BSP.F Aligned Ports*

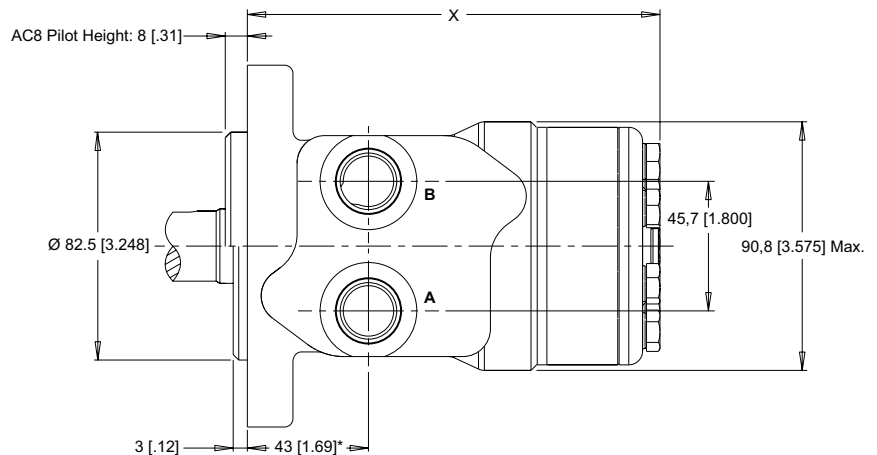
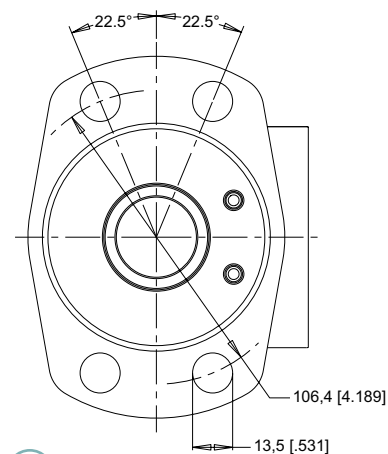


NOTE: Dimension X is found on page 12. * Add 5 [.20] to dimension for the A10, A11, & A18 housings.

A30 4-Hole 1/2" NPT Aligned Ports

A31 4-Hole 7/8" O-Ring Aligned Ports

AC8 2-Hole 1/2" BSP.F Aligned Ports

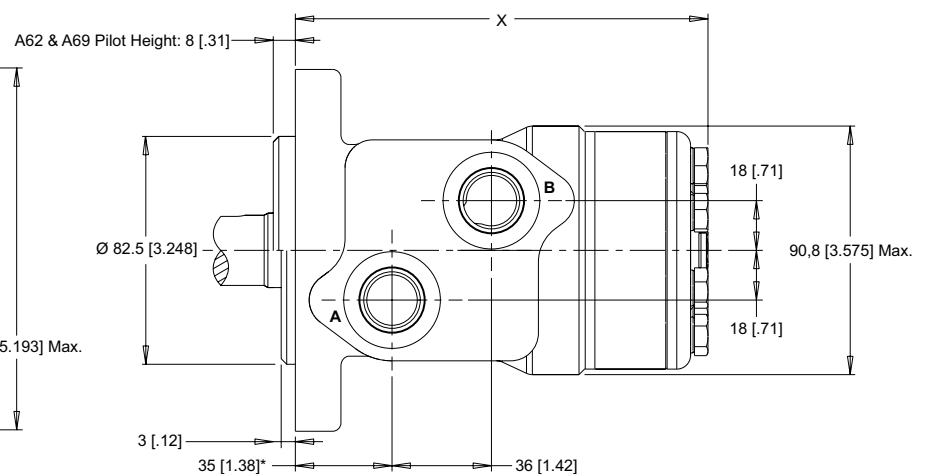
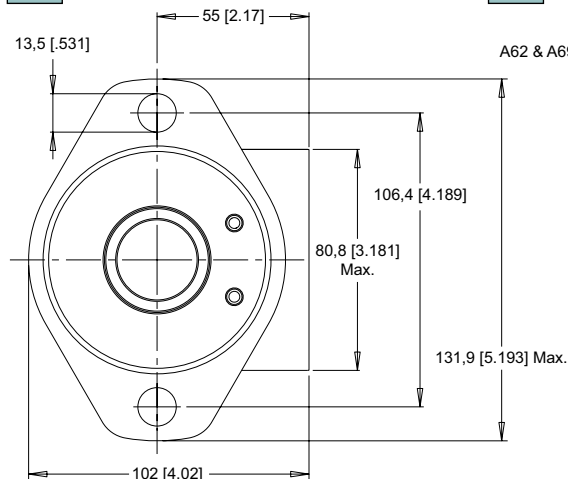


NOTE: Dimension X is found on page 12. * Add 5 [.20] to dimension for the A30 & A31 housings.

A12 2-Hole 1/2" BSP.F Offset Ports

A62 2-Hole 1/2" BSP.F Offset Ports

A69 2-Hole 7/8" O-Ring Offset Ports

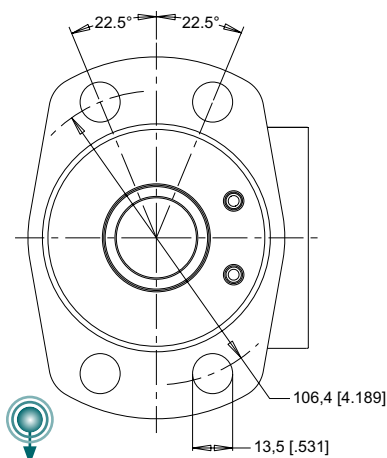


NOTE: Dimension X is found on page 12. * Add 5 [.20] to dimension for the A12 housing.

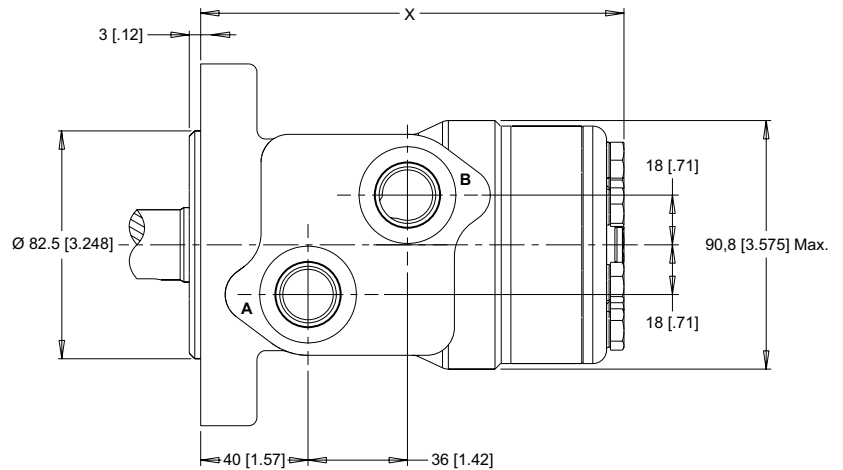


155 & 156 SERIES HOUSINGS (SAE A & MAGNETO MOUNTS)

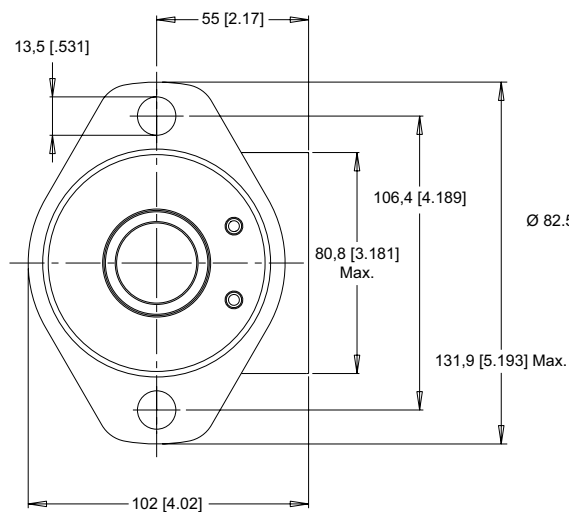
A32 2-Hole 1/2" BSP.F Offset Ports



NOTE: Dimension X is found on page 12.

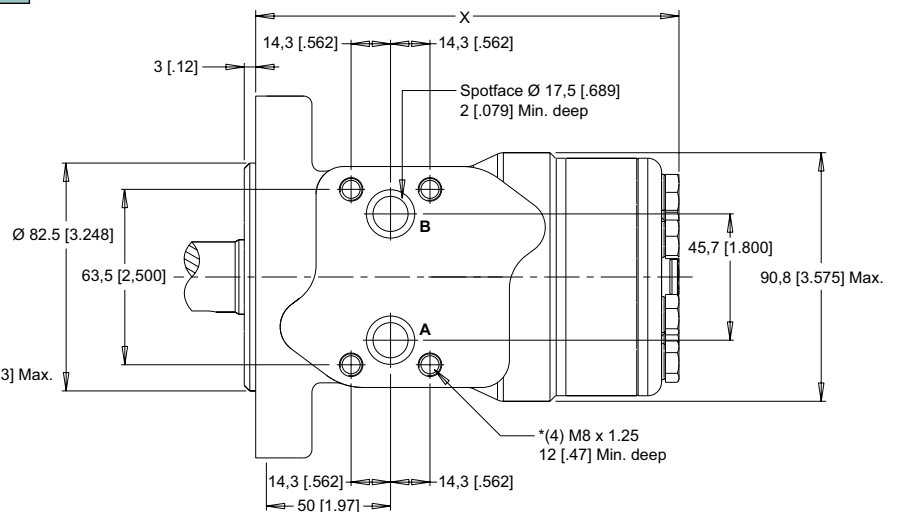


A17 2-Hole Manifold Ports

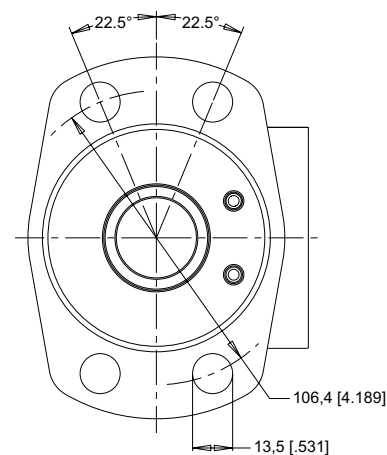


NOTE: Dimension X is found on page 12. * The four (4) mounting holes on the A17 housing are 5/16-18 UNC at the same depth.

G17 2-Hole Manifold Ports

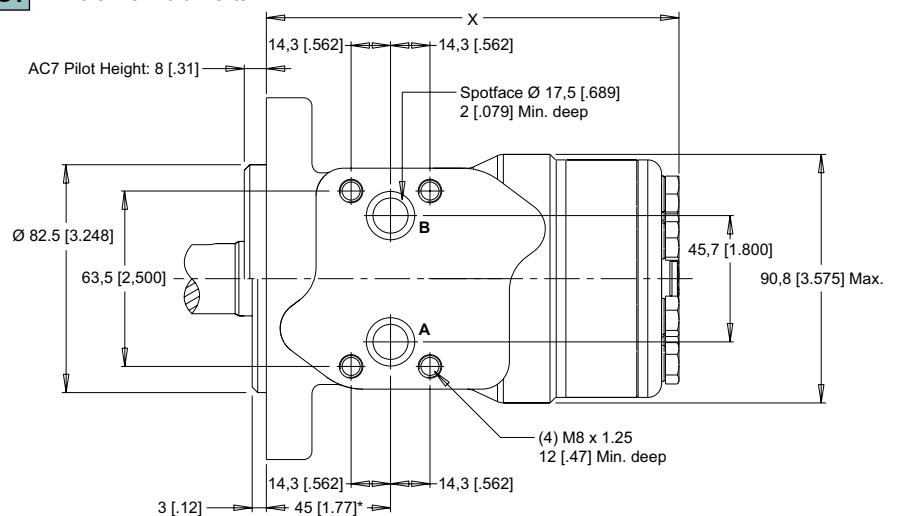


A37 4-Hole Manifold Ports



NOTE: Dimension X is found on page 12. * Pilot height is 3 [.12] for the A37 housing. ** Add 5 [.20] to dimension for the A37 housing.

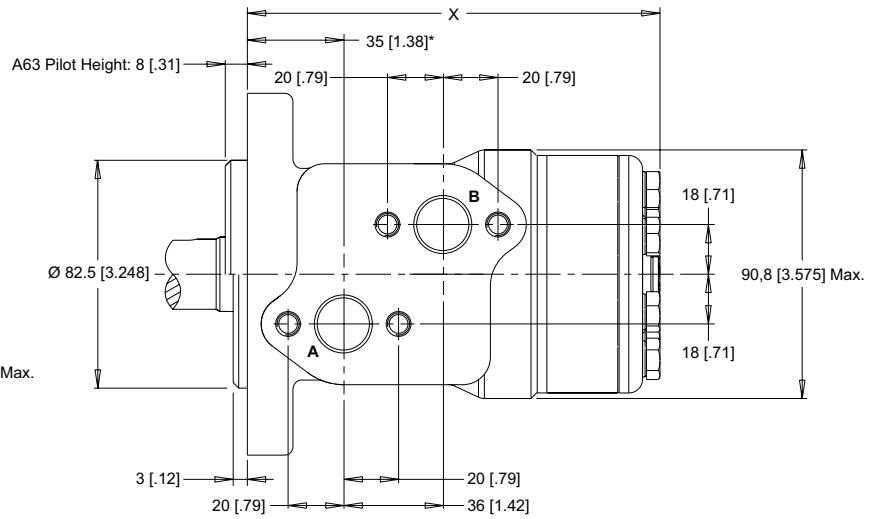
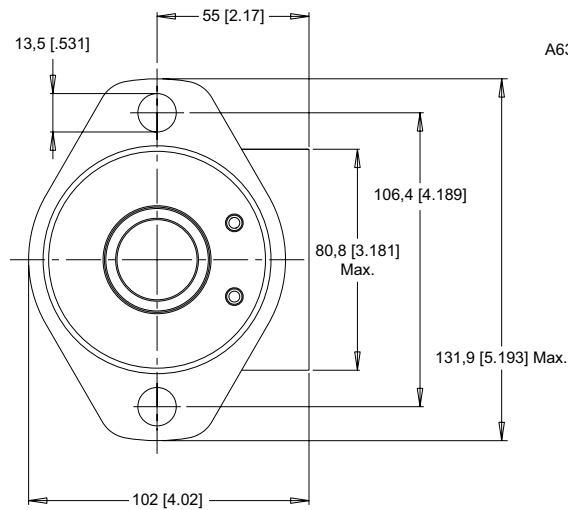
AC7 4-Hole Manifold Ports



155 & 156 SERIES HOUSINGS (SAE A, MAGNETO, 4-HOLE SQUARE MOUNTS)

A13 2-Hole 1/2" BSP.F Offset Manifold Ports

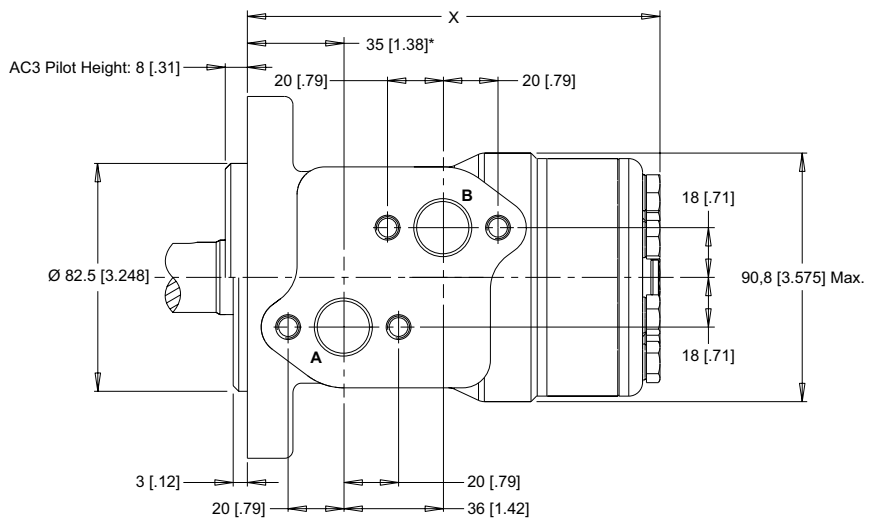
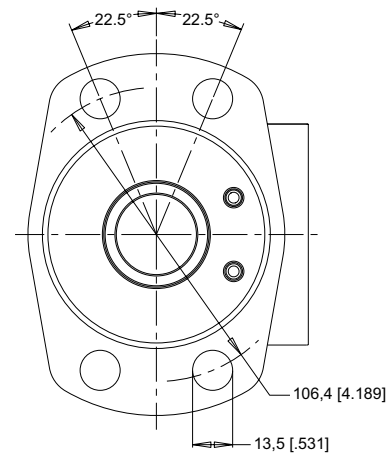
A63 2-Hole 1/2" BSP.F Offset Manifold Ports



NOTE: Dimension X is found on page 12. * Add 5 [.20] to dimension for the A13 housing.

AC3 4-Hole 1/2" BSP.F Offset Manifold Ports

A3D 4-Hole 7/8" O-Ring Offset Manifold Ports

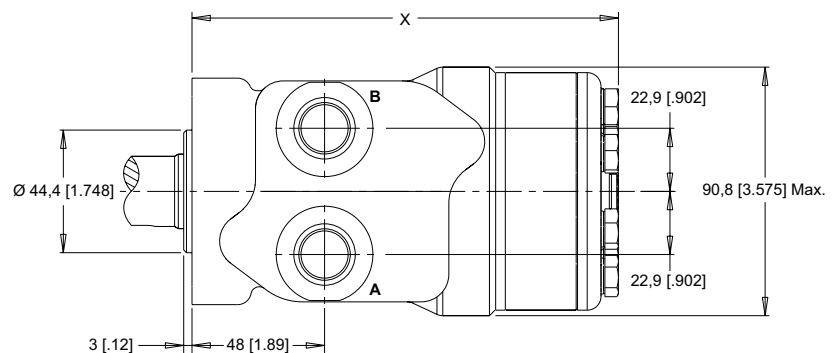
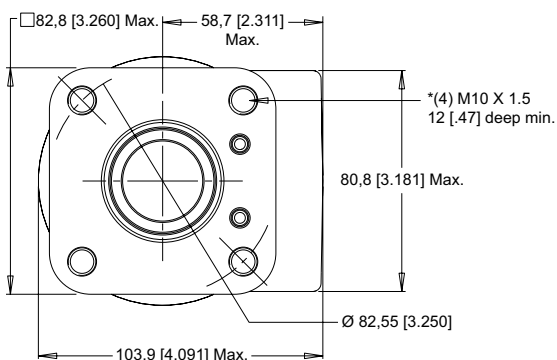


NOTE: Dimension X is found on page 12. * Add 5 [.20] to dimension for the A3D housing.

F30 4-Hole 1/2" NPT Aligned Ports

F31 4-Hole 7/8" O-Ring Aligned Ports

F38 2-Hole 1/2" BSP.F Aligned Ports

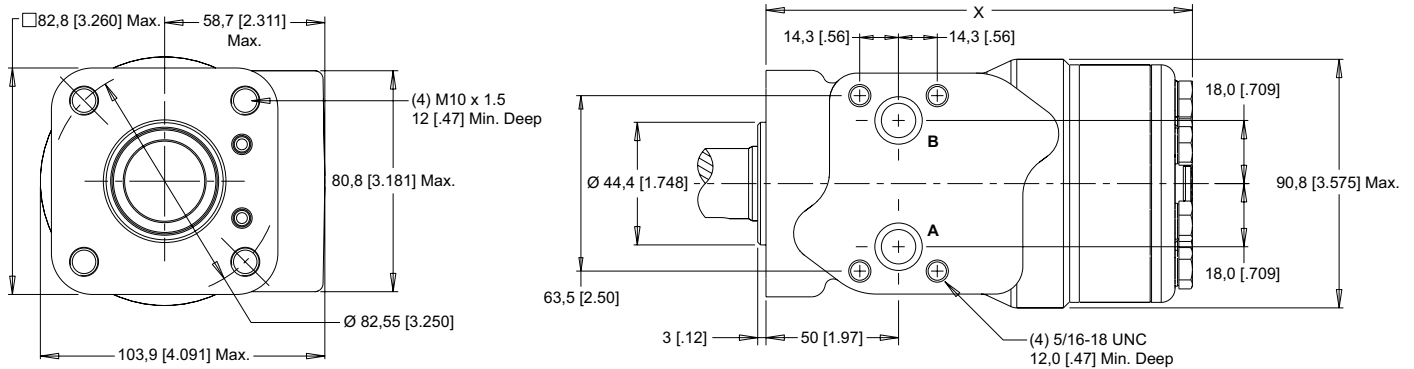


NOTE: Dimension X is found on page 12. * The four (4) mounting holes on the F30 & F31 housings are 3/8-16 UNC at the same depth.



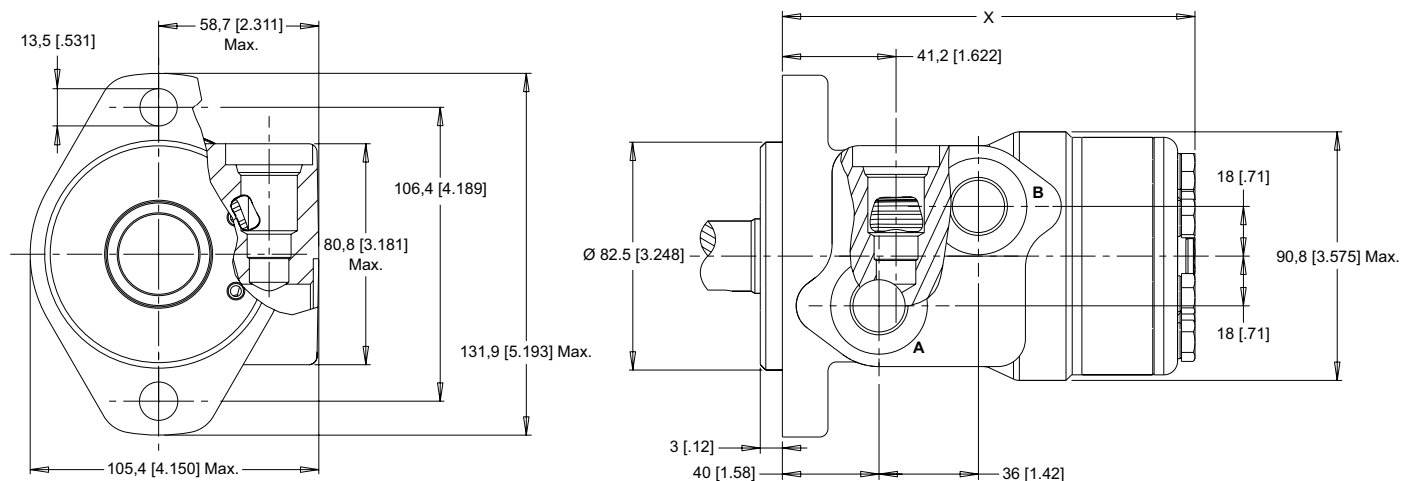
155 & 156 SERIES HOUSINGS (SAE A & MAGNETO MOUNTS WITH RELIEF CAVITY)

F37 4-Hole Manifold Ports



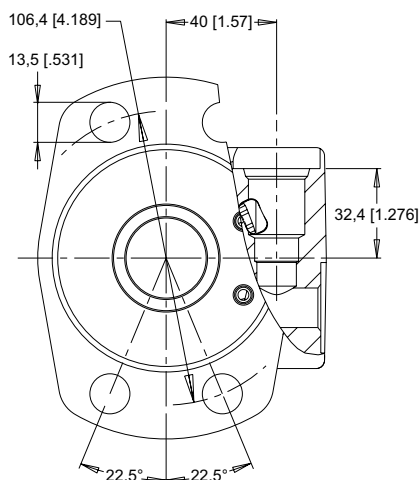
NOTE: Dimension X is found on page 12.

A19 2-Hole 7/8" O-Ring Offset Ports

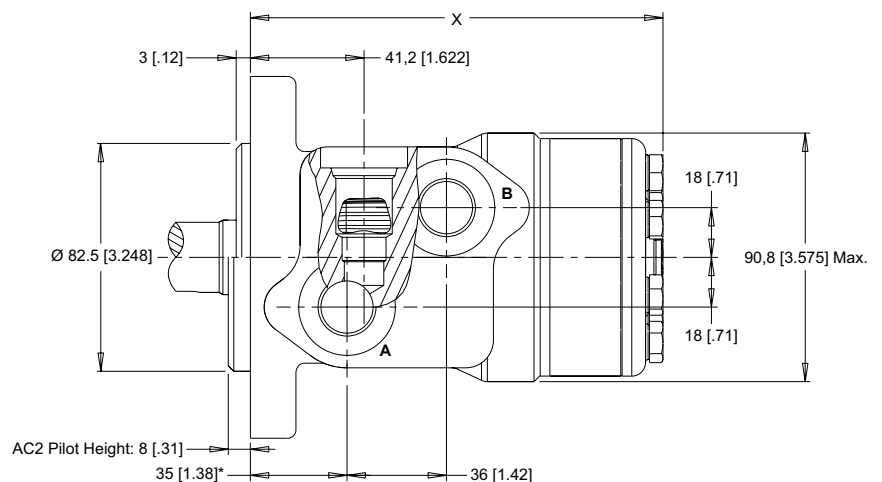


NOTE: Dimension X is found on page 12.

A39 2-Hole 7/8" O-Ring Offset Ports



AC2 2-Hole 1/2" BSP.F Offset Ports



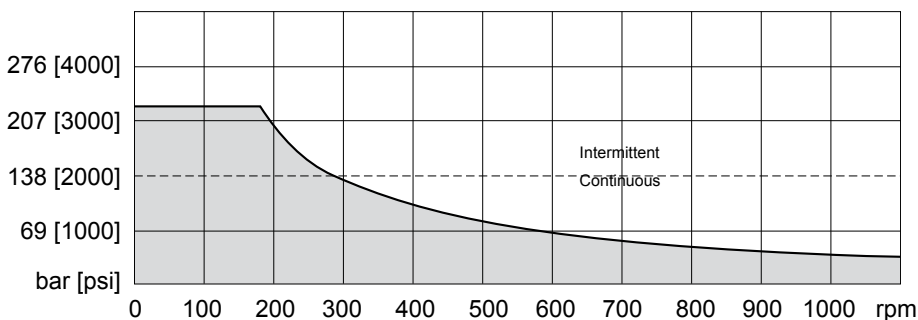
NOTE: Dimension X is found on page 12. * Add 5 [20] to dimension for the A39 housing.



155 & 156 SERIES TECHNICAL INFORMATION

PERMISSIBLE SHAFT SEAL PRESSURE

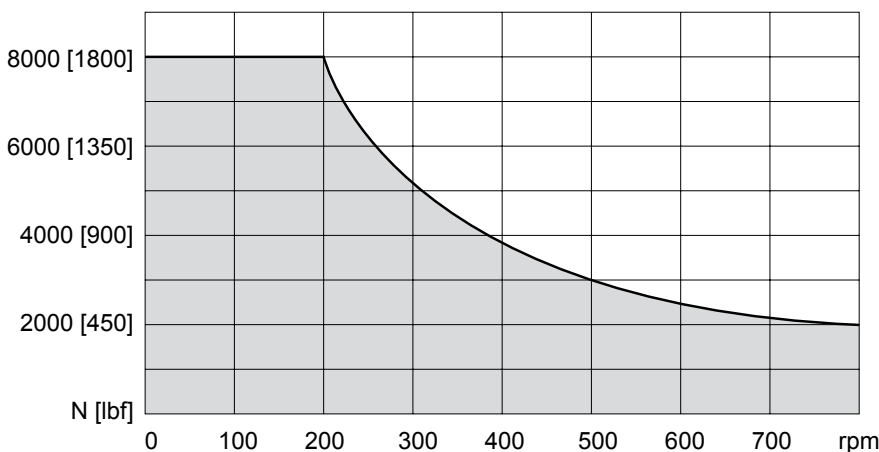
The curve below represents allowable seal pressure at various speeds. Operation in the gray area results in maintaining the rated life of the shaft seal. Actual shaft seal pressure depends on motor configuration (see below).



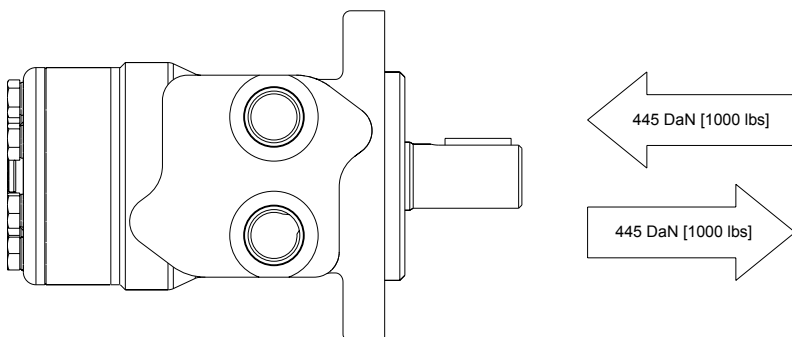
With check valves and drain connection, the shaft seal pressure equals pressure in the drain line. With check valves and no drain connection, shaft seal pressure is identical to output pressure. No check valves and no drain connection, the shaft seal pressure is identical to the average value of input and output pressure.

ALLOWABLE SHAFT LOAD / BEARING CURVE

The bearing curve below represents the side load capacity of the motor at the centerline of the key for various motor speeds. Operating conditions within the shaded area will maintain acceptable oil film lubrication with recommended fluids. Operating conditions outside the shaded area are susceptible to motor failure due to oil starvation and/or excessive heat generation. Fluids with low lubricity or low viscosity may require the maximum load and speed ratings to be derated to provide acceptable motor life and performance.



THRUST LOAD



LENGTH / WEIGHT CHART All Mounts - Dimension X		
Code	mm [in]	kg [lb]
050	136 [5.34]	6.5 [14.2]
060	137 [5.40]	6.5 [14.3]
080	139 [5.49]	6.6 [14.5]
100	142 [5.59]	6.7 [14.7]
125	146 [5.74]	6.8 [14.9]
160	150 [5.90]	6.9 [15.2]
200	155 [6.10]	7.1 [15.6]
250	162 [6.36]	7.3 [16.1]
315	170 [6.69]	7.6 [16.7]
400	181 [7.13]	7.9 [17.5]

NOTE:

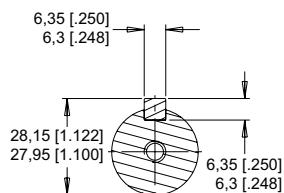
WP motor weights vary ± 0.5 kg [1 lb] depending upon motor configuration.



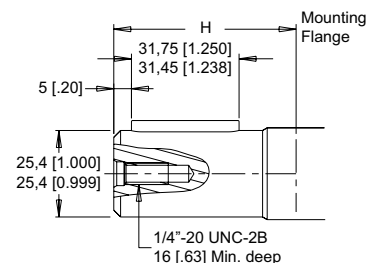
155 & 156 SERIES SHAFTS

10 1" Straight

Max. Torque: 655 Nm [5800 lb-in]



15 1" Straight Extended

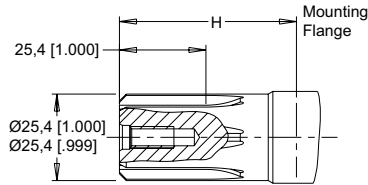


02 6B Spline (1/4" UNC Tap)

Max. Torque: 429 Nm [3800 lb-in]



04 6B Spline (M8 x 1.25 Tap)



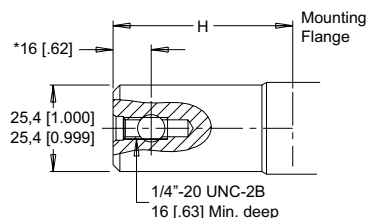
05 1" Pinhole (.375")

66 1" Pinhole (8mm)

Max. Torque: 678 Nm [6000 lb-in]



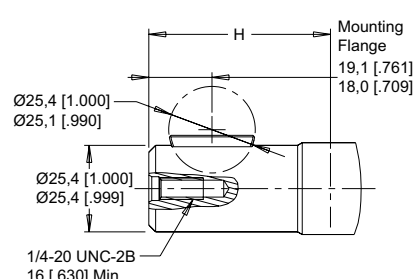
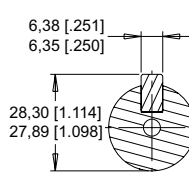
53 1" Pinhole (.406")



NOTE: *For 66 shaft subtract 4,6 [.18] from this dimension.

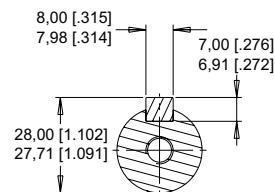
B1 1" Straight with Woodruff Key

Max. Torque: 655 Nm [5800 lb-in]

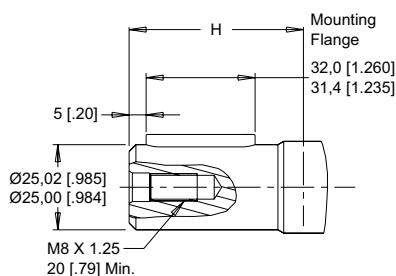


12 25mm Straight

Max. Torque: 678 Nm [6000 lb-in]

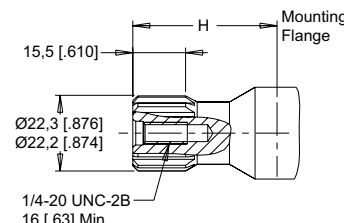
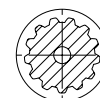


16 25mm Straight Extended



01 13 Tooth Spline

Max. Torque: 170 Nm [1500 lb-in]



MOUNTING FLANGE TO SHAFT END Dimension H

Code	8mm Pilot	Code	8mm Pilot
01	48,3 [1.902]	14	67,1 [2.642]
02	50,3 [1.980]	15	67,1 [2.642]
04	50,3 [1.980]	16	67,6 [2.661]
05	50,3 [1.980]	53	50,3 [1.980]
10	50,3 [1.980]	66	55,3 [2.177]
12	55,3 [2.177]	B1	50,3 [1.980]



NOTE: For 3mm pilot housings subtract 5,0 [.197] from dimension. Shaft lengths vary ± 0,8 [.030].

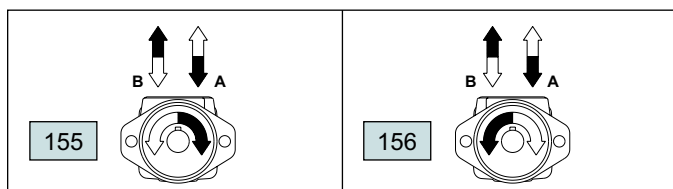


155 & 156 SERIES MODEL CODE BUILDER

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

- 155 Clockwise Rotation
- 156 Counterclockwise Rotation



NOTE: To obtain the desired direction of shaft rotation, use the graphic above to determine the rotation code for the motor.

STEP 2 - Select a displacement option

050	50 cc	[3.0 in ³ /rev]	160	154 cc	[9.4 in ³ /rev]
060	59 cc	[3.6 in ³ /rev]	200	190 cc	[11.6 in ³ /rev]
080	78 cc	[4.8 in ³ /rev]	250	240 cc	[14.6 in ³ /rev]
100	96 cc	[5.9 in ³ /rev]	315	303 cc	[18.5 in ³ /rev]
125	125 cc	[7.6 in ³ /rev]	400	388 cc	[23.7 in ³ /rev]

STEP 3 - Select a housing option

A10	2-Hole 1/2" NPT Aligned Ports (S)
A11	2-Hole 7/8" O-ring Aligned Ports (S)
A12	2-Hole 1/2" BSP.F Offset Ports (S)
A13	2-Hole 1/2" BSP.F Offset Manifold (S)
A17	2-Hole Manifold Ports (S)
A18	2-Hole 1/2" BSP.F Aligned (S)
A19	2-Hole 7/8" O-ring With Valve Cavity (S)
A30	4-Hole 1/2" NPT Aligned Ports
A31	4-Hole 7/8" O-ring Aligned Ports
A32	4-Hole 1/2" BSP.F Offset Ports
A37	4-Hole Manifold Ports
A39	4-Hole 7/8" O-ring With Valve Cavity
A3D	4-Hole 7/8" O-ring Offset Manifold Ports
A62	2-Hole 1/2" BSP.F Offset w/8mm Pilot
A63	2-Hole 1/2" BSP.F Offset Manifold w/8mm Pilot
A68	2-Hole 1/2" BSP.F Aligned w/8mm Pilot
A69	2-Hole 7/8" O-Ring Offset Ports w/8mm Pilot
AC2	4-Hole 1/2" BSP.F Offset Ports w/8mm Pilot
AC3	4-Hole 1/2" BSP.F Offset Manifold w/8mm Pilot
AC7	4-Hole Manifold Ports w/8mm Pilot
AC8	4-Hole 1/2" BSP.F Aligned Ports w/8mm Pilot
F30	4-Hole 1/2" NPT Aligned Ports (S)
F31	4-Hole 7/8" O-ring Aligned Ports (S)

STEP 3 (Continued) - Select a housing option

- F37 4-Hole Manifold Ports (S)
- F38 4-Hole 1/2" BSP.F Aligned Ports (S)
- G17 2-Hole Manifold Ports (S)

STEP 4 - Select a shaft option

01	13 Tooth Spline	15	1" Straight Ext. (S)
02	6B (1/4" UNC Tap)	16	25mm Straight Ext. (S)
04	6B (M8 x 1.25 Tap)	53	1" Pinhole (.406")
05	1" Pinhole (.375")	66	1" Pinhole (8mm)
10	1" Straight	B1	1" Straight (Woodruff Key)
12	25mm Straight		

STEP 5 - Select a paint option

- A Black
- B Black (unpainted flange face)

STEP 6 - Select a valve cavity option and installed valve

A	None	F	121 bar [1750 psi]
B	Relief Valve Cavity	G	138 bar [2000 psi]
C	69 bar [1000 psi]	J	173 bar [2500 psi]
D	86 bar [1250 psi]	L	207 bar [3000 psi]
E	104 bar [1500 psi]		

NOTE: Valve cavity is only available on the A19, A39, A62 & AC2 housings. The B option will not have a valve cartridge listed above installed.

STEP 7 - Select an add on option

A	Standard
B	Lock Nut
C	Solid Hex Nut
W	4-Pin Dual Male Weatherpack Connector (S)
X	4-Pin M12 Dual Male Connector (S)
Y	3-Pin Single Male Weatherpack Connector (S)
Z	4-Pin M12 Single Male Connector (S)

NOTE: (S) - STEP 3 Housings available for use with speed sensors. STEP 4 Shafts available for use with speed sensors. STEP 7 Speed sensor options.

STEP 8 - Select a miscellaneous option

- AA None
- AC Freeturning Rotor
- FB No Check Valves Installed In Motor

Important Information

Before selecting or using a White Drive Products' product, it is important that all information concerning the product warranty, limitation of liability and responsibility of the customer be reviewed. This information is located below. Please direct any questions regarding this information to your White Drive Products representative.

Disclaimer

This catalog provides product options for further investigation by customers having technical expertise with respect to the use of such products. It is the responsibility of the customer to thoroughly analyze all aspects of the customer's application and to review the information concerning the product in the current product catalog. Due to the diversity of possible applications, the customer is solely responsible for making the final selection of the product(s) to be used and to assure that all performance, safety and warning requirements of the application are met. The customer is further responsible for all testing to verify acceptable life and performance of White Drive Products' products under actual operating conditions.

White Drive Products has made all reasonable efforts to present accurate information in this catalog and shall not be responsible for any incorrect information which may result from unintentional oversight. Due to continuous product improvement, the product specifications as stated in this catalog are subject to change by White Drive Products at any time without notice. The customer should consult a sales representative of White Drive Products for detailed information and to determine any changes in the information in this catalog.

Improper selection or improper use of the products described herein can result in death, personal injury and/or property damage. White Drive Products, Inc.'s sole responsibility with respect to its products is set forth in the warranty/limitation of liability policy state herein.

Warranty

White Drive Products' products are sold subject to a limited warranty and a limitation of remedies policy, both of which constitute part of any and all agreements to purchase White Drive Products' products. White Drive Products makes no other warranties or promises other than those specifically noted in its written policies, and no White Drive Products employee or agent has the power to alter those policies other than in writing.

OTHER FINE PRODUCTS AVAILABLE FROM WHITE DRIVE PRODUCTS



**A COMPLETE RANGE
OF LSHT HYDRAULIC
MOTORS**



**HYDRAULIC
CONTROLLED
PRESSURE
RELEASED BRAKES**

Delivering The Power To Get Work Done.

Distributed by:



United States

White Drive Products, Inc.
P.O. Box 1127
Hopkinsville, KY. USA 42241
Phone: +1.270.885.1110
Fax: +1.270.886.8462
infousa@whitedriveproducts.com

Germany

White Drive Products GmbH
Halskestrasse 15
D-40880 Ratingen, Germany
Phone: +49 2102-1237770
Fax: +49 2102-1237779
infoeu@whitedriveproducts.com

China

White (China) Drive Products Co., Ltd.
1-8 Ning Zhen Gong Lu
Zhenjiang, 212021, Jiangsu, China
Phone: +86 511 5729988
Fax: +86 511 5728921
infochina@whitedriveproducts.com

Hong Kong

White Drive Products, Inc.
Asian Distribution Center
Unit 18, 9/F., Corporation Park
11 on Lai Street, Siu Lek Yuen
Shatin, N.T. Hong Kong
Phone: +852 2637 6682
Fax: +852 2637 6978
infohk@whitedriveproducts.com



whitedriveproducts

www.whitedriveproducts.com