

white drive products

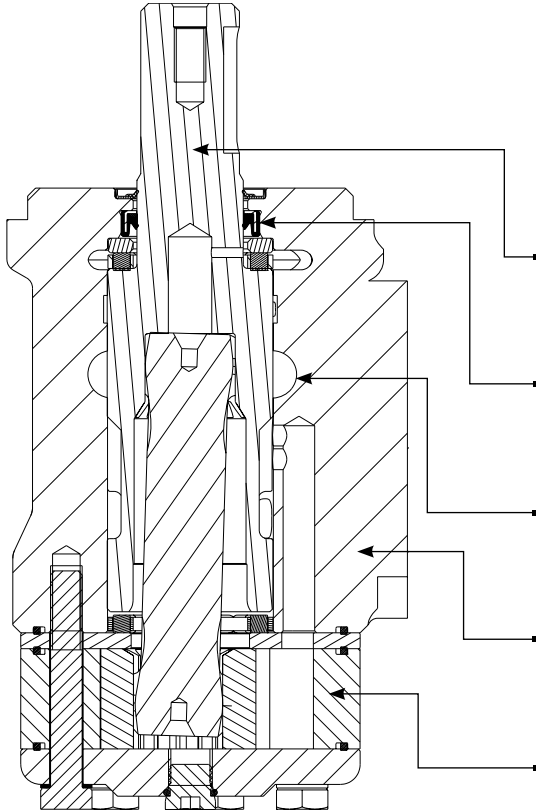


WP

SERIES HYDRAULIC MOTORS

OVERVIEW

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
025	25 [1.5]	1570	1687	40 [11]	45 [12]	35 [310]	48 [425]	100 [1450]	140 [2030]	225 [3260]
032	32 [2.0]	1550	1674	50 [13]	55 [15]	45 [398]	57 [504]	100 [1450]	140 [2030]	225 [3260]
040	40 [2.5]	1471	1670	60 [16]	70 [19]	65 [575]	74 [655]	100 [1450]	140 [2030]	225 [3260]
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]



025

Pressure - bars [psi]	Max. Cont.	Max. Inter.
30 [435] 60 [870] 80 [1160] 100 [1450] 120 [1740] 140 [2030]		

25 cc [1.5 in³/rev.]

Max. Max. Inter. Cont.	Flow - lpm [gpm]	5 [1.3]
	10 [2.6]	
	15 [4.0]	
	20 [5.3]	
	25 [6.6]	
	30 [7.9]	
	35 [9.2]	
	40 [10.6]	
	45 [11.9]	

Torque - Nm [lb-in], Speed rpm						Intermittent Ratings - 10% of Operation					
9 [80]	18 [159]	25 [221]	32 [283]	35 [664]		Theoretical rpm	200				
186	160	134	101	106			400				
10 [88]	18 [159]	26 [230]	34 [301]	37 [690]	48 [425]		600				
386	352	323	280	255	210		800				
9 [80]	19 [168]	26 [230]	35 [310]	38 [690]	44 [389]		1000				
568	537	505	467	431	390		1200				
8 [71]	19 [168]	25 [221]	33 [292]	39 [681]	45 [398]		1400				
777	736	692	660	608	566		1600				
7 [62]	18 [159]	26 [230]	32 [283]	39 [646]	45 [398]		1800				
972	920	870	840	803	756						
6 [53]	17 [150]	25 [221]	32 [283]	39 [602]	44 [389]						
1167	1122	1088	155	998	976						
5 [44]	16 [142]	24 [212]	31 [274]	37 [566]	43 [381]						
1360	1318	1282	1258	1216	1160						
5 [44]	15 [133]	22 [195]	31 [274]	36 [513]	41 [363]						
1570	1503	1476	1432	1394	1359						
	13 [115]	20 [177]	28 [248]	34 [496]	39 [345]						
	1687	1636	1600	1558	1516						

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

Theoretical Torque - Nm [lb-in]

12 [106]	24 [211]	32 [282]	40 [352]	48 [423]	56 [493]
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Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]

032

Pressure - bars [psi]	Max. Cont.	Max. Inter.
30 [435] 60 [870] 80 [1160] 100 [1450] 120 [1740] 140 [2030]		

32 cc [2.0 in³/rev.]

Max. Max. Inter. Cont.	Flow - lpm [gpm]	5 [1.3]
	10 [2.6]	
	15 [4.0]	
	20 [5.3]	
	25 [6.6]	
	30 [7.9]	
	35 [9.2]	
	40 [10.6]	
	45 [11.9]	
	50 [13.2]	
	55 [14.5]	

Torque - Nm [lb-in], Speed rpm						Intermittent Ratings - 10% of Operation					
11 [97]	24 [212]	35 [310]	37 [327]			Theoretical rpm	156				
149	135	114	94				313				
12 [106]	27 [239]	37 [327]	43 [381]	46 [407]	56 [496]		469				
308	284	270	250	240	211		625				
11 [97]	26 [230]	36 [319]	45 [398]	48 [425]	57 [504]		781				
465	444	429	398	378	355		938				
10 [88]	25 [221]	35 [310]	44 [389]	46 [407]	56 [496]		1094				
624	589	575	557	544	524		1250				
9 [80]	24 [212]	34 [301]	42 [372]	45 [398]	54 [478]		1406				
780	771	751	735	719	695		1563				
8 [71]	23 [204]	32 [283]	40 [354]	45 [398]	52 [460]		1719				
931	908	895	876	857	822						
7 [62]	20 [177]	29 [257]	39 [345]	43 [381]	51 [451]						
1086	1066	1051	1030	1012	981						
7 [62]	19 [168]	27 [239]	38 [336]	43 [381]	50 [442]						
1240	1212	1190	1178	1145	1121						
6 [53]	18 [159]	26 [230]	35 [310]	42 [372]	48 [425]						
1400	1382	1366	1340	1314	1280						
5 [44]	16 [142]	24 [212]	31 [274]	40 [354]	46 [407]						
1550	1526	1500	1478	1452	1418						
	12 [106]	20 [177]	28 [248]	34 [301]	39 [345]						
	1674	1641	1617	1584	1555						

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

Theoretical Torque - Nm [lb-in]

15 [135]	31 [271]	41 [361]	51 [451]	61 [541]	71 [631]
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Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]



PERFORMANCE

040

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

30 [435]	60 [870]	80 [1160]	100 [1450]	120 [1740]	140 [2030]
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40 cc [2.5 in³/rev.]

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

Max. Max. Inter. Cont.	Flow - lpm [gpm]	5 [1.3]	15 [133] 113	31 [274] 98	38 [336] 83	48 [425] 60	56 [496] 48		125	Theoretical rpm
		10 [2.6]	14 [124] 238	31 [274] 222	41 [363] 204	54 [478] 182	62 [549] 161	70 [619] 114	250	
		20 [5.3]	13 [115] 482	32 [283] 458	41 [363] 442	53 [469] 423	65 [575] 402	74 [655] 381	500	
		30 [7.9]	12 [106] 730	30 [265] 704	39 [345] 687	51 [451] 668	63 [558] 646	74 [655] 624	750	
		40 [10.6]	10 [88] 968	27 [239] 949	39 [345] 928	51 [451] 908	61 [540] 892	72 [637] 870	1000	
		50 [13.2]	7 [62] 1219	25 [221] 1191	37 [327] 1173	49 [434] 1150	59 [522] 1127	71 [628] 1107	1250	
		60 [15.8]	4 [35] 1471	23 [204] 1428	34 [301] 1411	46 [407] 1387	56 [496] 1369	68 [602] 1341	1500	
		70 [18.5]		16 [142] 1670	30 [265] 1653	41 [363] 1627	52 [460] 1612	64 [566] 1598	2000	

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

Theoretical Torque - Nm [lb-in]

19 [168]	38 [336]	50 [442]	64 [566]	76 [673]	89 [788]
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Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]

050

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

30 [435]	60 [870]	80 [1160]	100 [1450]	120 [1740]	140 [2030]	160 [2320]	175 [2540]
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50 cc [3.0 in³/rev.]

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

Max. Max. Inter. Cont.	Flow - lpm [gpm]	5 [1.3]	19 [168] 100	39 [345] 85	48 [425] 75	62 [549] 64	75 [664] 48			101	
		10 [2.6]	20 [177] 197	38 [336] 196	50 [442] 174	63 [558] 159	78 [690] 146	92 [814] 127	102 [903] 101	107 [947] 97	202
		20 [5.3]	18 [159] 400	38 [336] 386	52 [460] 371	64 [566] 355	78 [690] 341	90 [796] 314	104 [920] 292	108 [956] 290	404
		30 [7.9]	15 [133] 600	37 [327] 585	50 [442] 571	64 [566] 560	77 [681] 540	89 [788] 516	103 [912] 499	107 [947] 495	606
		40 [10.6]	12 [106] 808	31 [274] 800	45 [398] 790	59 [522] 770	73 [646] 766	87 [770] 733	99 [876] 703	106 [938] 697	808
		50 [13.2]	9 [80] 1009	27 [239] 1006	41 [363] 986	55 [487] 982	68 [602] 964	84 [743] 956	98 [867] 930	105 [929] 872	1010
		60 [15.8]	6 [53] 1208	24 [212] 1200	37 [327] 1196	53 [469] 1188	64 [566] 1176	82 [726] 1160	95 [841] 1140	102 [903] 963	1212
		70 [18.5]	3 [27] 1410	17 [150] 1396	32 [283] 1382	44 [389] 1370	58 [513] 1358	80 [708] 1347	93 [823] 1334	98 [867] 1315	1414
75 [19.8]		15 [133] 1500	30 [265] 1488	40 [354] 1473	56 [496] 1457	77 [681] 1439	88 [779] 1412	93 [823] 1388	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]
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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

Max. Cont.	Flow - lpm [gpm]	5 [1.3]	20 [177] 83	46 [407] 79	65 [575] 72	80 [708] 64	95 [841] 51	112 [991] 38			Theoretical rpm
	10 [2.6]	22 [195] 169	47 [416] 164	66 [584] 155	81 [717] 142	96 [850] 135	113 [1000] 124	125 [1106] 108	136 [1204] 88	85	
	20 [5.3]	20 [177] 338	45 [398] 332	64 [566] 320	80 [708] 309	93 [823] 290	111 [982] 276	123 [1088] 245	134 [1186] 222	170	
	30 [7.9]	17 [150] 507	43 [381] 502	62 [549] 493	76 [673] 482	89 [788] 468	109 [965] 454	121 [1071] 424	131 [1159] 400	339	
	40 [10.6]	14 [124] 678	41 [363] 669	58 [513] 660	73 [646] 645	87 [770] 630	105 [929] 616	117 [1035] 594	127 [1124] 582	509	
	50 [13.2]	10 [88] 845	37 [327] 841	55 [487] 833	70 [619] 818	84 [743] 805	102 [903] 792	113 [1000] 770	122 [1080] 754	678	
	60 [15.8]	7 [62] 1014	34 [301] 1005	52 [460] 999	66 [584] 992	82 [726] 982	99 [876] 968	109 [965] 956	118 [1044] 933	848	
	70 [18.5]	4 [35] 1185	27 [239] 1182	47 [416] 1180	62 [549] 1175	76 [673] 1158	93 [823] 1144	104 [920] 1128	114 [1009] 1112	1017	
	75 [19.8]		22 [195] 1271	43 [381] 1265	58 [513] 1256	73 [646] 1241	86 [761] 1228	100 [885] 1212	110 [973] 1196	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]
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Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]

080

Pressure - bars [psi]							Max. Cont.	Max. Inter.
30 [435]	60 [870]	80 [1160]	100 [1450]	120 [1740]	140 [2030]	160 [2320]	175 [2540]	

78 cc [4.8 in³/rev.]

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

Max. Cont.	Flow - lpm [gpm]	5 [1.3]	32 [283] 60	62 [549] 56	80 [708] 50	106 [938] 42	125 [1106] 30			Theoretical rpm	
	10 [2.6]	31 [274] 125	64 [566] 118	84 [743] 112	104 [920] 104	120 [1062] 98	142 [1257] 82	162 [1434] 67	175 [1549] 50		64
	20 [5.3]	26 [230] 254	60 [531] 245	84 [743] 236	102 [903] 228	125 [1106] 215	144 [1274] 204	164 [1451] 190	183 [1619] 175		128
	30 [7.9]	24 [212] 384	56 [496] 374	81 [717] 366	100 [885] 358	122 [1080] 346	142 [1257] 335	160 [1416] 318	175 [1549] 305		256
	40 [10.6]	19 [168] 512	53 [469] 505	75 [664] 494	96 [850] 483	118 [1044] 473	140 [1239] 462	158 [1398] 450	170 [1504] 438		385
	50 [13.2]	14 [124] 638	46 [407] 630	70 [619] 625	92 [814] 615	110 [973] 606	135 [1195] 593	156 [1381] 580	168 [1487] 568		513
	60 [15.8]	10 [88] 768	42 [372] 762	66 [584] 756	86 [761] 748	106 [938] 738	128 [1133] 728	150 [1327] 717	164 [1451] 694		641
	70 [18.5]	6 [53] 896	36 [319] 890	56 [496] 882	78 [690] 872	98 [867] 860	118 [1044] 846	140 [1239] 830	160 [1416] 816		769
	75 [19.8]	3 [27] 960	27 [239] 955	50 [442] 948	74 [655] 938	92 [814] 926	113 [1000] 916	133 [1177] 896	148 [1310] 802		897
											962

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

Theoretical Torque - Nm [lb-in]

37 [327]	75 [664]	100 [885]	125 [1106]	149 [1319]	174 [1540]	199 [1761]	218 [1929]
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Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]



PERFORMANCE

		Pressure - bars [psi]							Max. Cont.	Max. Inter.	
100		30 [435]	60 [870]	80 [1160]	100 [1450]	120 [1740]	140 [2030]	160 [2320]	175 [2540]		
96 cc [5.9 in ³ /rev.]		Torque - Nm [lb-in], Speed rpm							Intermittent Ratings - 10% of Operation		
Max. Cont.	Flow - lpm [gpm]	43 [381] 51	82 [726] 42	109 [965] 35	131 [1159] 25					52	Theoretical rpm
	10 [2.6]	43 [381] 99	84 [743] 93	108 [956] 84	133 [1177] 72	152 [1345] 62	180 [1593] 48	197 [1743] 24		104	
	20 [5.3]	41 [363] 205	79 [699] 202	107 [947] 197	127 [1124] 192	154 [1363] 182	178 [1575] 172	200 [1770] 140	212 [1876] 118	208	
	30 [7.9]	39 [345] 311	74 [655] 307	101 [894] 301	126 [1115] 294	152 [1345] 283	176 [1558] 271	198 [1752] 258	213 [1885] 240	313	
	40 [10.6]	29 [257] 413	63 [558] 410	93 [823] 406	121 [1071] 399	150 [1327] 388	172 [1522] 379	195 [1726] 368	208 [1841] 347	417	
	50 [13.2]	20 [177] 519	52 [460] 515	85 [752] 510	115 [1018] 503	148 [1310] 492	169 [1496] 480	193 [1708] 464	203 [1796] 446	521	
	60 [15.8]	17 [150] 624	53 [469] 620	83 [735] 615	111 [982] 608	138 [1221] 600	165 [1460] 582	183 [1619] 565	193 [1708] 548	625	
	70 [18.5]	11 [97] 728	42 [372] 726	73 [646] 723	93 [823] 714	126 [1115] 706	159 [1407] 684	172 [1522] 668	183 [1619] 646	729	
Max. Inter.	75 [19.8]	6 [53] 780	35 [310] 771	61 [540] 764	89 [788] 755	118 [1044] 736	145 [1283] 724	156 [1381] 712	176 [1558] 699	781	
		Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input checked="" type="checkbox"/>									
		Theoretical Torque - Nm [lb-in]									
		46 [407]	92 [814]	122 [1080]	153 [1354]	183 [1623]	214 [1894]	245 [2168]	268 [2372]		
		Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]									

		Pressure - bars [psi]							Max. Cont.	Max. Inter.	
125		30 [435]	60 [870]	80 [1160]	100 [1450]	120 [1740]	140 [2030]	160 [2320]	175 [2540]		
125 cc [7.6 in ³ /rev.]		Torque - Nm [lb-in], Speed rpm							Intermittent Ratings - 10% of Operation		
Max. Cont.	Flow - lpm [gpm]	52 [460] 38	95 [841] 35	135 [1195] 32	168 [1487] 27					40	Theoretical rpm
	10 [2.6]	50 [442] 78	98 [867] 74	138 [1221] 69	172 [1522] 62	190 [1681] 54	234 [2071] 45	258 [2283] 35		80	
	20 [5.3]	50 [442] 158	96 [850] 152	132 [1168] 144	168 [1487] 135	202 [1788] 124	236 [2088] 110	256 [2265] 94	278 [2460] 78	160	
	30 [7.9]	44 [389] 238	92 [814] 232	126 [1115] 225	164 [1451] 215	198 [1752] 210	232 [2053] 198	262 [2319] 168	268 [2372] 155	240	
	40 [10.6]	35 [310] 319	82 [726] 316	118 [1044] 312	160 [1416] 308	193 [1708] 300	226 [2000] 288	252 [2230] 262	266 [2354] 238	320	
	50 [13.2]	31 [274] 399	77 [681] 396	108 [956] 392	155 [1372] 383	182 [1611] 368	220 [1947] 354	238 [2106] 338	262 [2319] 326	400	
	60 [15.8]	15 [133] 479	64 [566] 478	97 [858] 475	146 [1292] 470	166 [1469] 463	210 [1858] 454	224 [1982] 443	256 [2265] 434	480	
	70 [18.5]	8 [71] 559	50 [442] 555	90 [796] 548	140 [1239] 538	162 [1434] 524	204 [1805] 516	209 [1850] 500	236 [2088] 488	560	
Max. Inter.	75 [19.8]		40 [354] 599	71 [628] 594	128 [1133] 588	158 [1398] 576	192 [1699] 565	199 [1761] 536	224 [1982] 524	600	
		Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input checked="" type="checkbox"/>									
		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

Max. Cont.	Flow - lpm [gpm]	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]	Theoretical rpm	
	Max. Inter.	56 [496]	112 [991]	154 [1363]	201 [1779]							32
		30	25	18	10							65
	Max. Cont.	58 [513]	115 [1018]	156 [1381]	205 [1814]	245 [2168]	285 [2522]					130
		63	60	56	52	48	37					194
	Max. Inter.	60 [532]	123 [1089]	162 [1434]	202 [1788]	242 [2142]	282 [2496]	327 [2894]	360 [3186]			258
		128	125	121	116	110	100	86	78			323
	Max. Cont.	50 [443]	117 [1035]	157 [1389]	197 [1743]	238 [2106]	278 [2460]	322 [2850]	358 [3168]			387
		193	190	187	183	179	173	160	144			453
	Max. Inter.	48 [425]	113 [1000]	155 [1372]	195 [1726]	236 [2089]	273 [2416]	318 [2814]	355 [3142]			485
257		255	248	244	239	224	211					
Max. Cont.	32 [283]	106 [938]	149 [1319]	188 [1664]	235 [2080]	267 [2363]	313 [2770]	352 [3115]				
	323	320	316	312	306	299	288	275				
Max. Inter.	23 [204]	88 [779]	133 [1177]	178 [1575]	212 [1876]	260 [2301]	308 [2726]	342 [3027]				
	387	384	380	375	371	366	358	346				
Max. Cont.	16 [142]	82 [726]	128 [1133]	170 [1505]	206 [1823]	255 [2257]	302 [2673]	331 [2929]				
	452	451	448	444	436	430	423	412				
Max. Inter.	10 [89]	79 [699]	124 [1097]	164 [1451]	201 [1779]	248 [2195]	296 [2620]	319 [2823]				
	483	481	477	472	466	460	450	436				

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

200

Pressure - bars [psi]							Max. Cont.	Max. Inter.
30 [435]	60 [870]	80 [1160]	100 [1450]	115 [1670]	140 [2030]	150 [2180]	175 [2540]	

190 cc [11.6 in³/rev.]

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

Max. Cont.	Flow - lpm [gpm]	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]	Theoretical rpm	
	Max. Inter.	75 [664]	158 [1398]	200 [1770]	241 [2133]							26
		25	22	20	10							53
	Max. Cont.	78 [690]	160 [1416]	204 [1805]	252 [2230]	291 [2575]	348 [3080]	377 [3336]				105
		51	49	45	39	35	29	22				158
	Max. Inter.	74 [655]	156 [1381]	200 [1770]	246 [2177]	293 [2593]	354 [3133]	380 [3363]	416 [3681]			211
		104	102	99	95	89	83	76	65			263
	Max. Cont.	70 [619]	152 [1345]	196 [1735]	240 [2124]	290 [2566]	352 [3115]	378 [3345]	420 [3717]			316
		157	155	152	148	143	137	130	118			368
	Max. Inter.	65 [575]	147 [1301]	190 [1681]	228 [2018]	286 [2531]	340 [3009]	376 [3327]	418 [3699]			395
210		208	205	200	193	186	178	168				
Max. Cont.	54 [478]	142 [1257]	180 [1593]	222 [1965]	277 [2451]	333 [2947]	356 [3150]	402 [3558]				
	262	260	258	254	249	243	235	223				
Max. Inter.	36 [319]	128 [1133]	166 [1469]	210 [1858]	266 [2354]	322 [2850]	350 [3097]	400 [3540]				
	315	313	309	305	299	293	284	268				
Max. Cont.	15 [133]	102 [903]	158 [1398]	202 [1788]	254 [2248]	302 [2673]	327 [2894]	376 [3327]				
	367	365	362	358	352	336	330	316				
Max. Inter.		94 [832]	146 [1292]	194 [1717]	230 [2035]	290 [2566]	317 [2805]	364 [3221]				
		394	390	385	380	374	365	352				

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

Theoretical Torque - Nm [lb-in]

91 [803]	182 [1611]	242 [2142]	303 [2677]	348 [3079]	424 [3748]	454 [4016]	529 [4685]
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Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]



250

Pressure - bars [psi]				Max. Cont.		Max. Inter.	
30 [435]	60 [870]	85 [1230]	100 [1450]	125 [1810]	140 [2030]	160 [2320]	175 [2540]

240 cc [14.6 in³/rev.]

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

Torque - Nm [lb-in], Speed rpm		Intermittent Ratings - 10% of Operation						
89 [788] 19	194 [1717] 16	264 [2336] 10	326 [2885] 6					
92 [814] 40	196 [1735] 36	268 [2372] 32	329 [2912] 21	394 [3487] 10				
90 [796] 81	192 [1699] 77	264 [2336] 72	321 [2841] 65	397 [3513] 50	445 [3938] 42	510 [4513] 36	554 [4903] 23	
86 [761] 124	185 [1637] 121	256 [2265] 115	314 [2779] 106	392 [3469] 94	439 [3855] 84	502 [4442] 76	557 [4929] 61	
82 [726] 165	179 [1584] 162	248 [2195] 158	305 [2699] 153	384 [3398] 144	431 [3814] 135	486 [4301] 125	545 [4823] 113	
69 [611] 207	169 [1496] 203	243 [2150] 195	293 [2593] 189	378 [3345] 183	421 [3726] 170	475 [4204] 157	526 [4655] 138	
48 [425] 250	152 [1345] 247	230 [2035] 243	282 [2496] 236	364 [3221] 222	407 [3602] 216	456 [4035] 205	508 [4496] 188	
37 [327] 291	139 [1230] 285	219 [1938] 278	263 [2327] 271	343 [3035] 256	386 [3416] 249	441 [3903] 234	496 [4389] 221	
26 [230] 312	128 [1133] 310	205 [1814] 307	245 [2168] 302	328 [2903] 294	374 [3310] 270	428 [3788] 254	481 [4257] 242	

21
42
83
125
167
208
250
292
313

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

Theoretical Torque - Nm [lb-in]

115 [1018]	229 [2027]	325 [2875]	382 [3381]	478 [4230]	535 [4735]	611 [5407]	669 [5920]
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Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]

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.]

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

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

Max. Cont.	Flow - lpm [gpm]	5 [1.3]	144 [1274] 11	220 [1947] 10	270 [2389] 7	338 [2991] 5					Theoretical rpm
		10 [2.6]	146 [1292] 25	223 [1973] 23	272 [2407] 20	340 [3009] 16	412 [3646] 10	488 [4319] 6			
		20 [5.3]	145 [1283] 51	219 [1938] 50	269 [2381] 48	333 [2347] 45	408 [3611] 40	484 [4283] 35	548 [4850] 27		
		30 [7.9]	138 [1221] 76	215 [1903] 75	262 [2319] 73	322 [2850] 70	402 [3558] 67	472 [4177] 59	546 [4832] 47	625 [5531] 36	
		40 [10.6]	120 [1062] 103	204 [1805] 102	250 [2212] 100	310 [2743] 96	393 [3478] 89	458 [4053] 82	535 [4735] 73	618 [5469] 62	
		50 [13.2]	100 [885] 129	186 [1646] 128	238 [2106] 125	295 [2611] 123	374 [3310] 119	446 [3947] 112	520 [4602] 102	600 [5310] 91	
		60 [15.8]	76 [673] 155	166 [1469] 153	222 [1965] 150	282 [2496] 148	358 [3168] 143	427 [3779] 139	496 [4389] 130	576 [5097] 121	
		70 [18.5]	50 [442] 179	145 [1283] 177	194 [1717] 174	250 [2212] 170	334 [2956] 165	402 [3558] 158	472 [4177] 152	540 [4779] 144	
		75 [19.8]	42 [372] 189	135 [1195] 187	176 [1558] 184	226 [2000] 180	306 [2708] 175	373 [3301] 167	445 [3938] 160	520 [4602] 150	

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



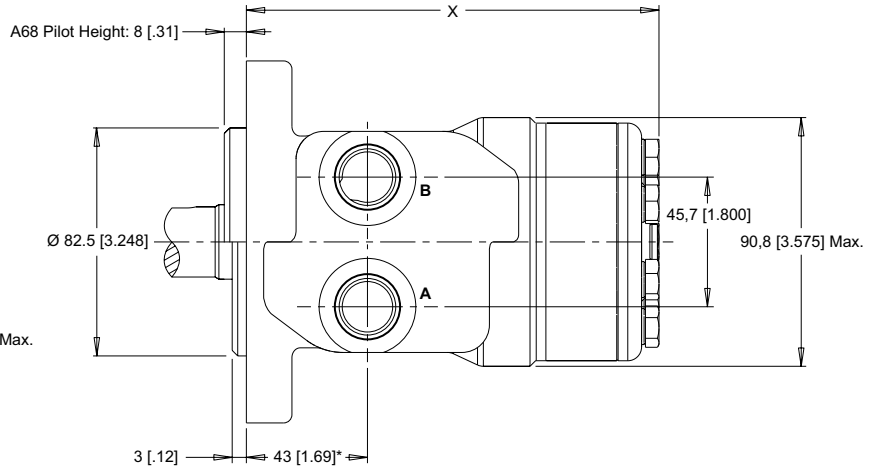
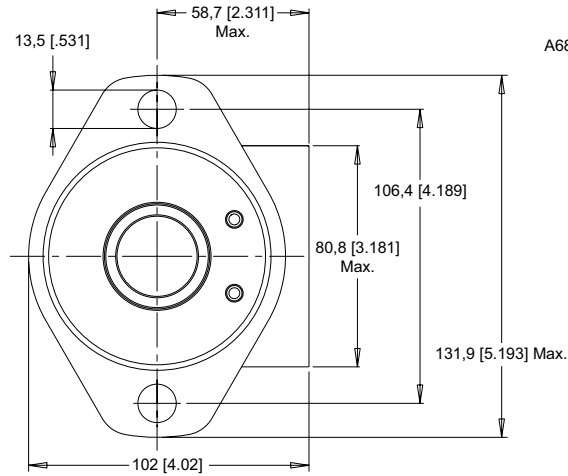
155 & 156 SERIES HOUSINGS (SAE A & MAGNETO MOUNTS)

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*

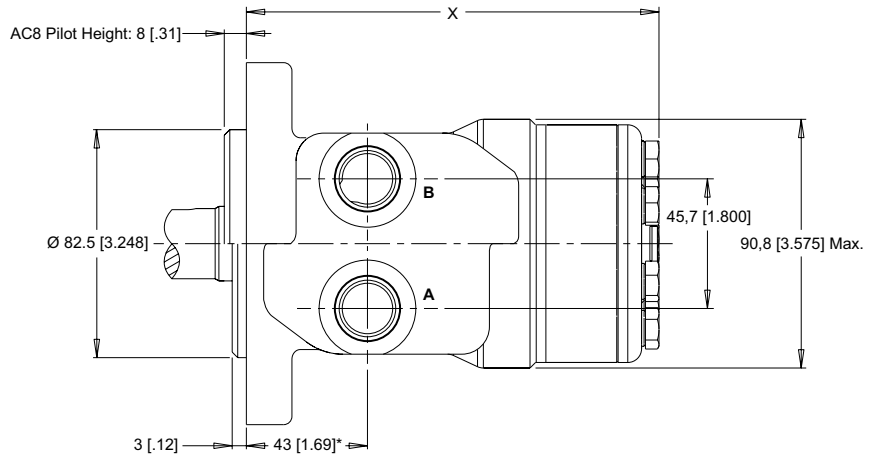
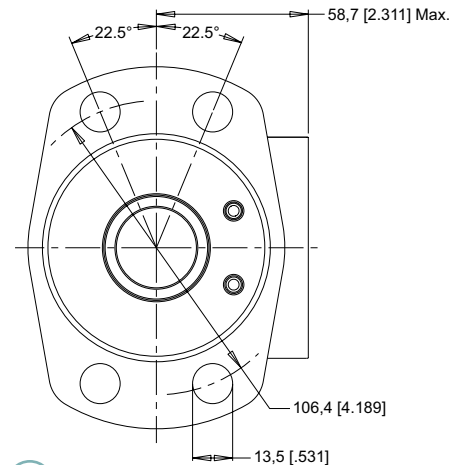


NOTE: Dimension X is found on page 15. * Add 5 [.20] to dimension for the A10, A11, & A18 housings.

A30 4-Hole 1/2" NPT Aligned Ports

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

AC8 4-Hole 1/2" BSP.F Aligned Ports

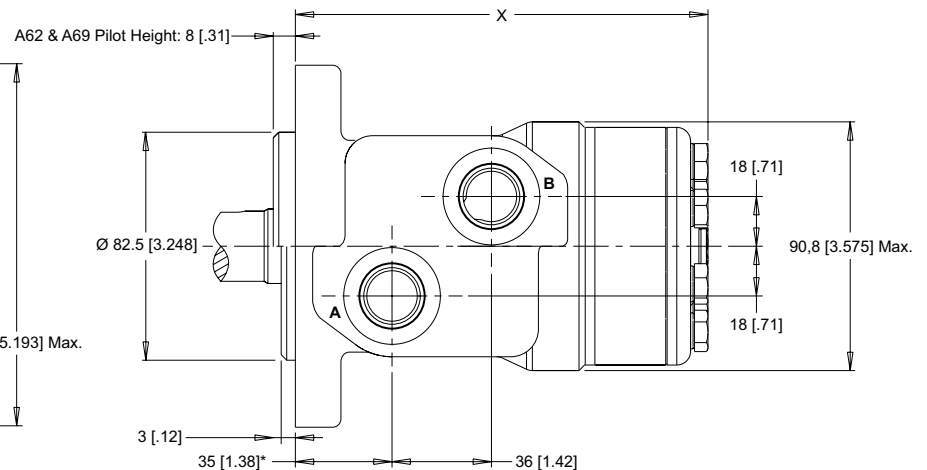
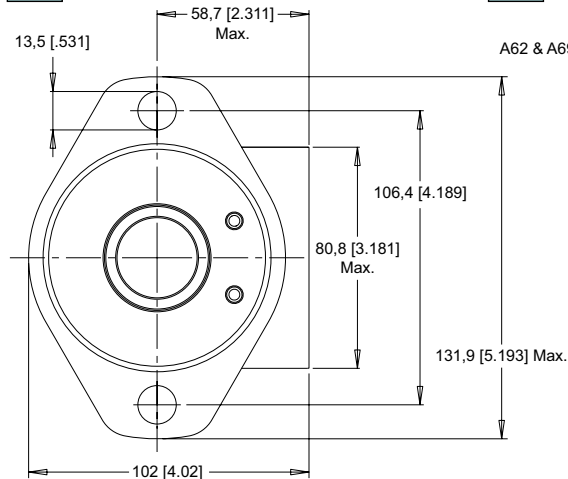


NOTE: Dimension X is found on page 15. * Add 5 [.20] to dimension for the A30 & A31 housings.

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

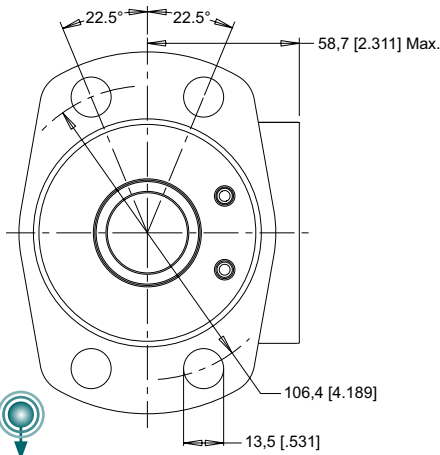


NOTE: Dimension X is found on page 15. * Add 5 [.20] to dimension for the A12 housing.

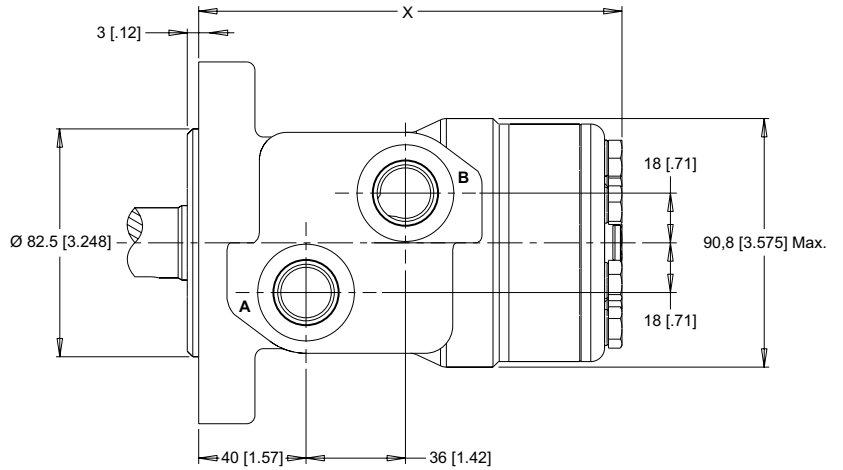


155 & 156 SERIES HOUSINGS (SAE A & MAGNETO MOUNTS)

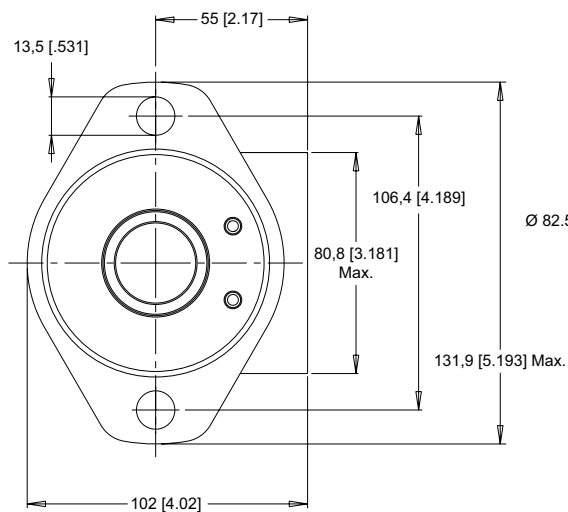
A32 4-Hole 1/2" BSP.F Offset Ports



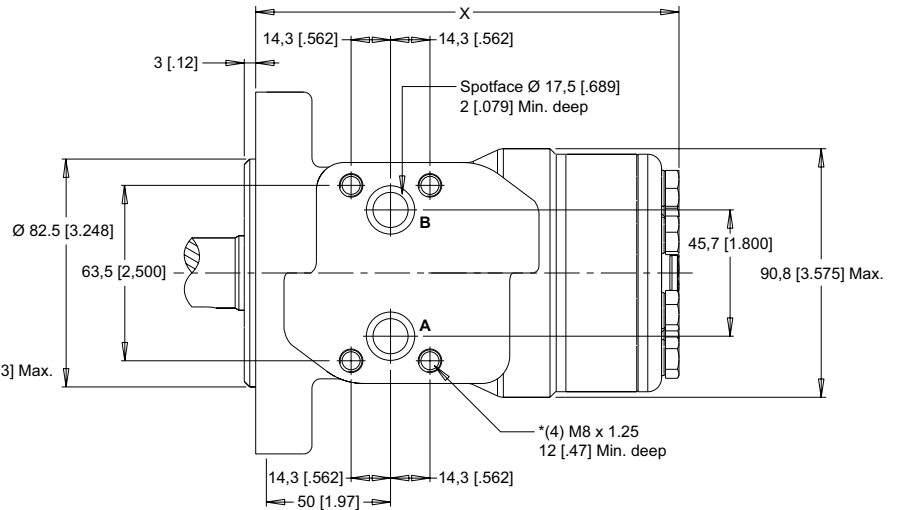
NOTE: Dimension X is found on page 15.



A17 2-Hole Manifold Ports

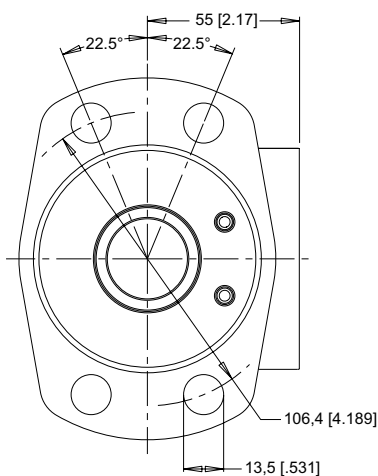


G17 2-Hole Manifold Ports

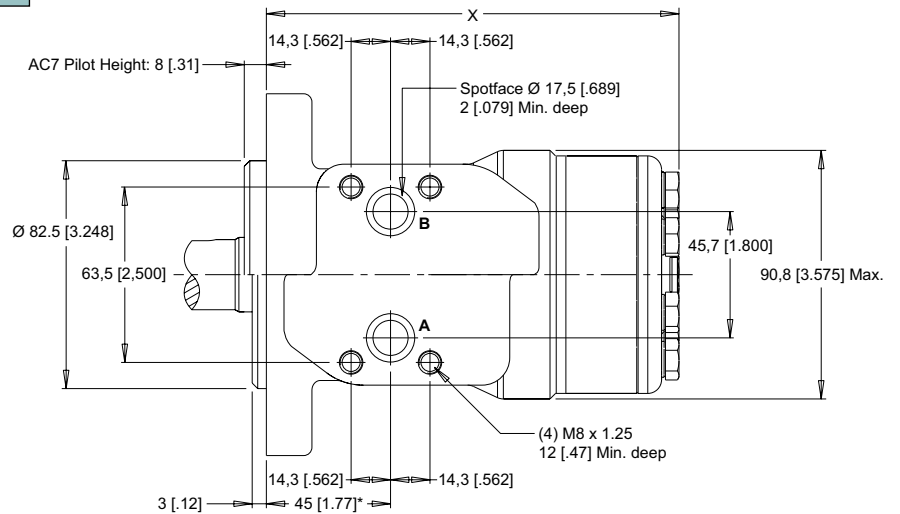


NOTE: Dimension X is found on page 15. * The four (4) mounting holes on the A17 housing are 5/16-18 UNC at the same depth.

A37 4-Hole Manifold Ports



AC7 4-Hole Manifold Ports



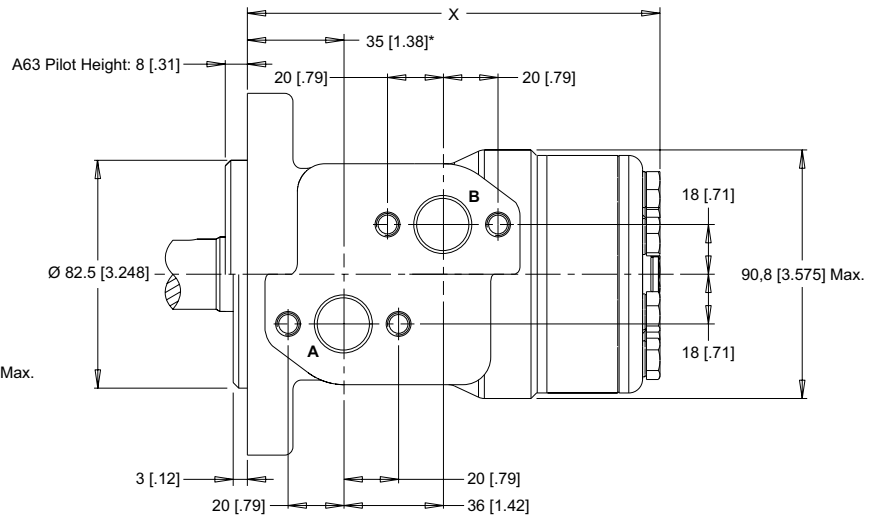
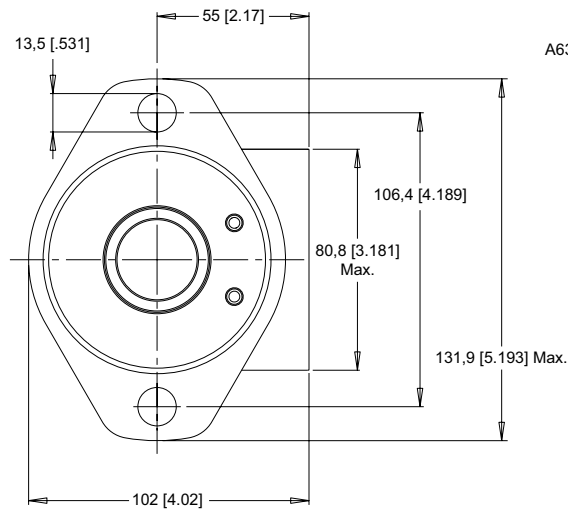
NOTE: Dimension X is found on page 15. * Pilot height is 3 [.12] for the A37 housing. ** Add 5 [.20] to dimension for the A37 housing.



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

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

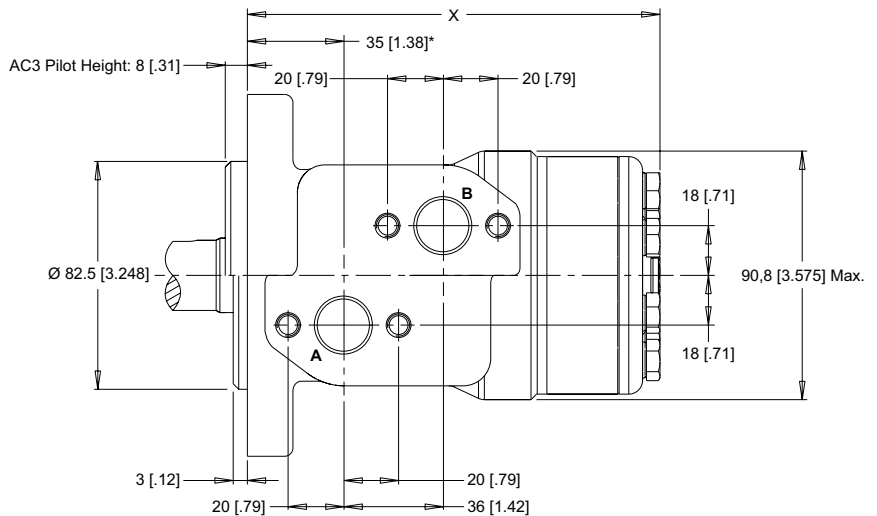
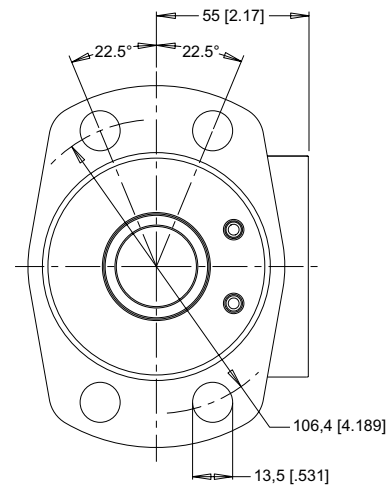
A63 2-Hole 1/2" BSP.F Offset Manifold Ports



NOTE: Dimension X is found on page 15. * 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

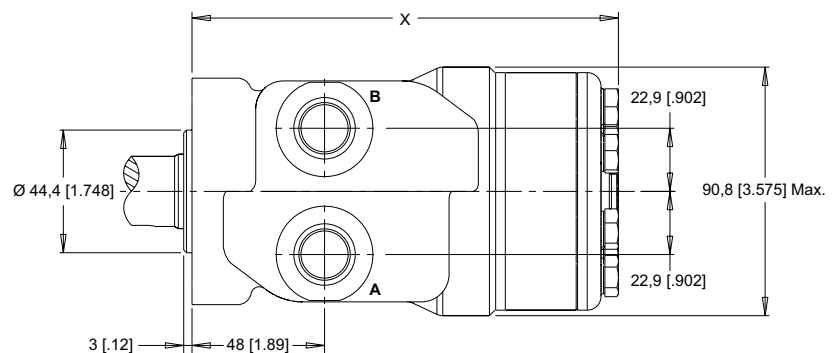
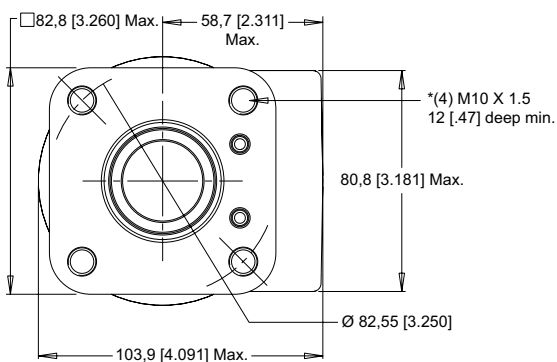


NOTE: Dimension X is found on page 15. * Add 5 [.20] to dimension for the A3D housing.

F30 4-Hole 1/2" NPT Aligned Ports

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

F38 4-Hole 1/2" BSP.F Aligned Ports

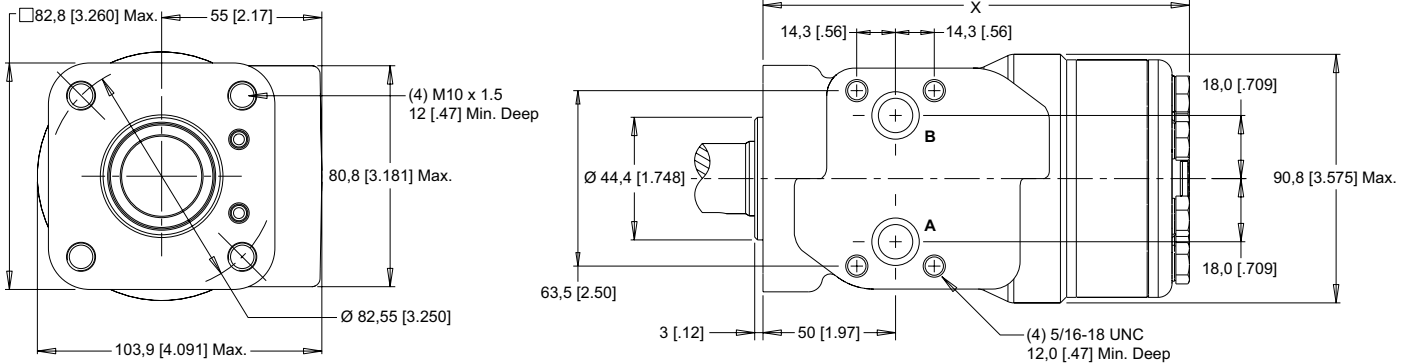


NOTE: Dimension X is found on page 15. * The four (4) mounting holes on the F30 & F31 housings are 3/8-16 UNC at the same depth.



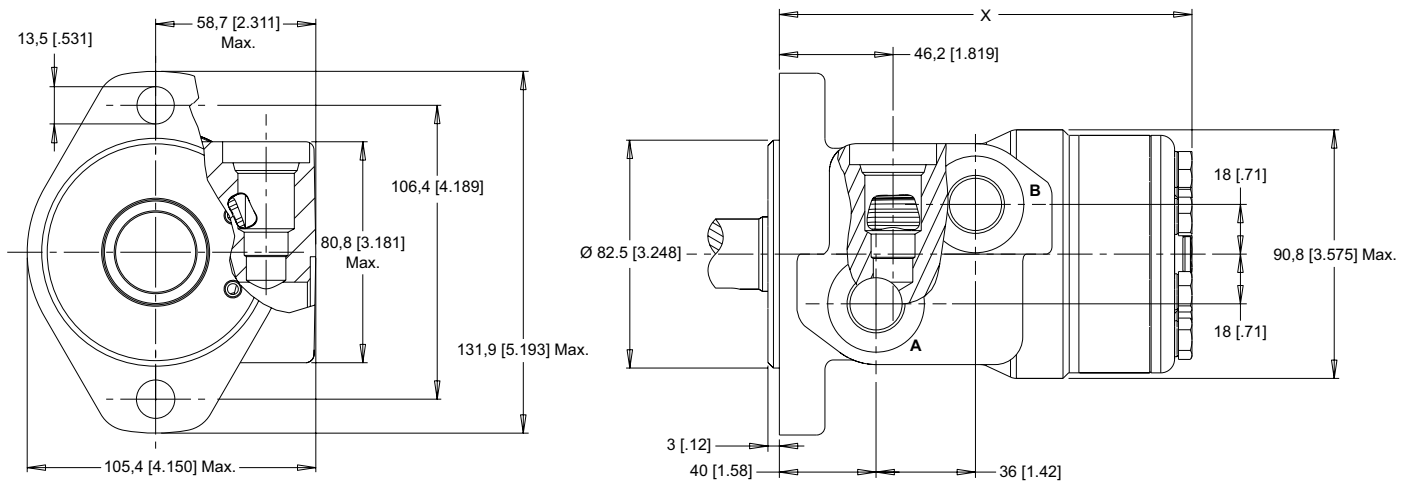
155 & 156 SERIES HOUSINGS (SAE A & MAGNETO MOUNTS WITH RELIEF CAVITY)

F37 4-Hole Manifold Ports



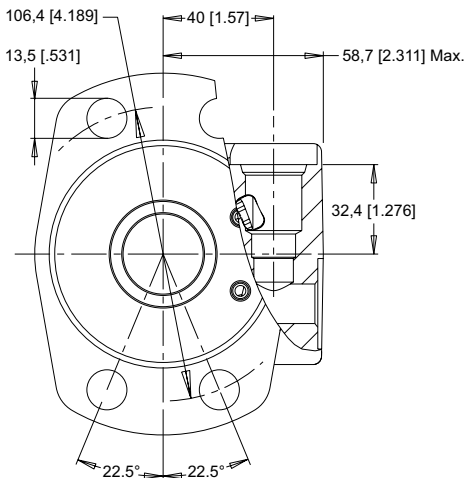
NOTE: Dimension X is found on page 15.

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

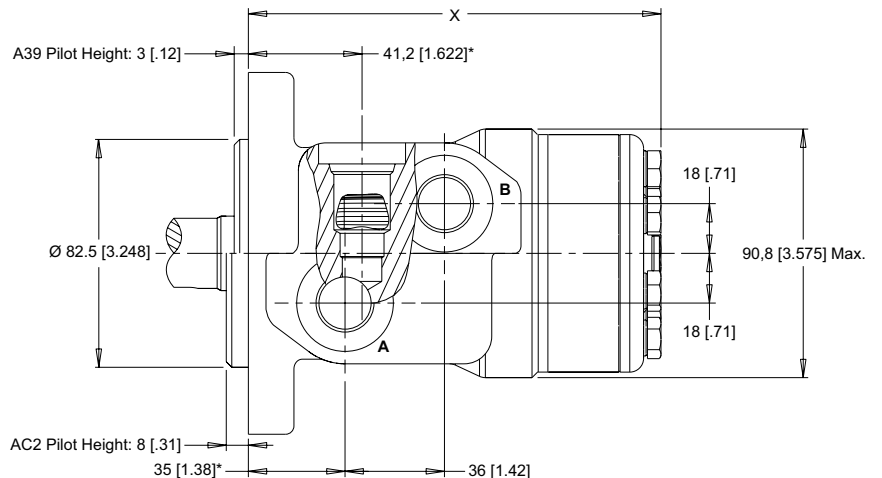


NOTE: Dimension X is found on page 15.

A39 4-Hole 7/8" O-Ring Offset Ports



AC2 4-Hole 1/2" BSP.F Offset Ports

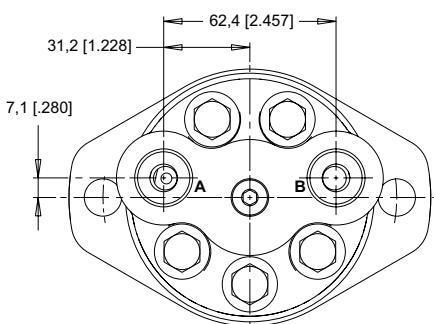
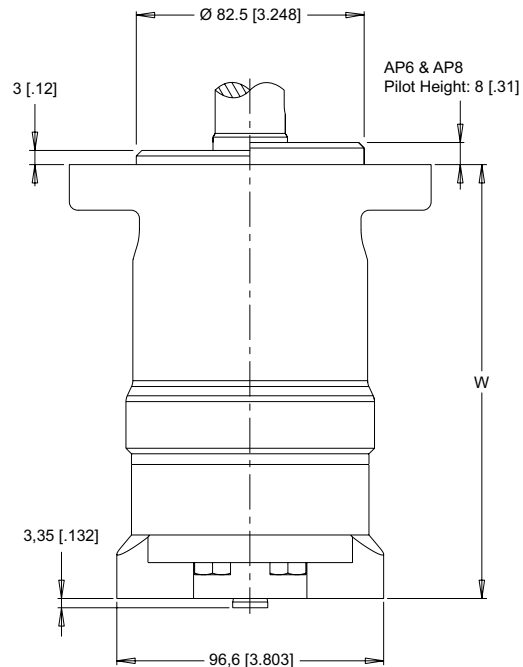
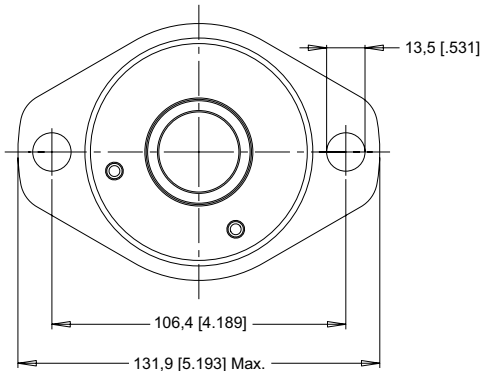


NOTE: Dimension X is found on page 15. * Add 5 [0.20] to dimension for the A39 housing.



155 & 156 SERIES HOUSINGS (SAE A MOUNT WITH END PORTS)

- A06** 2-Hole 3/4" O-Ring Ports With 3mm Pilot
- A08** 2-Hole 1/2" BSP.F Ports With 3mm Pilot
- AP6** 2-Hole 3/4" O-Ring Ports With 8mm Pilot
- AP8** 2-Hole 1/2" BSP.F Ports With 8mm Pilot



LENGTH / WEIGHT CHART		
3mm Pilot Mounts - Dimension W		
Code	mm [in]	kg [lb]
025	145 [5.71]	5.9 [13.0]
032	146 [5.75]	6.0 [13.2]
040	148 [5.83]	6.1 [13.4]
050	148 [5.83]	6.1 [13.4]
060	149 [5.87]	6.1 [13.4]
080	152 [5.98]	6.2 [13.6]
100	154 [6.06]	6.3 [13.9]
125	158 [6.22]	6.4 [14.1]
160	162 [6.38]	6.5 [14.3]
200	167 [6.57]	6.7 [14.7]
250	174 [6.85]	6.9 [15.2]
315	182 [7.17]	7.2 [15.8]
400	193 [7.60]	7.5 [16.5]

NOTE:
WP motor weights vary $\pm 0,5$ kg [1 lb] depending upon motor configuration.

LENGTH / WEIGHT CHART		
8mm Pilot Mounts - Dimension W		
Code	mm [in]	kg [lb]
025	140 [5.51]	5.8 [12.1]
032	141 [5.55]	5.9 [13.0]
040	143 [5.63]	6.0 [13.2]
050	143 [5.63]	6.0 [13.2]
060	144 [5.67]	6.0 [13.2]
080	147 [5.79]	6.1 [13.4]
100	149 [5.87]	6.2 [13.6]
125	153 [6.02]	6.3 [13.9]
160	157 [6.18]	6.4 [14.1]
200	162 [6.38]	6.6 [14.5]
250	169 [6.65]	6.8 [15.0]
315	177 [6.97]	7.1 [15.6]
400	188 [7.40]	7.4 [16.3]

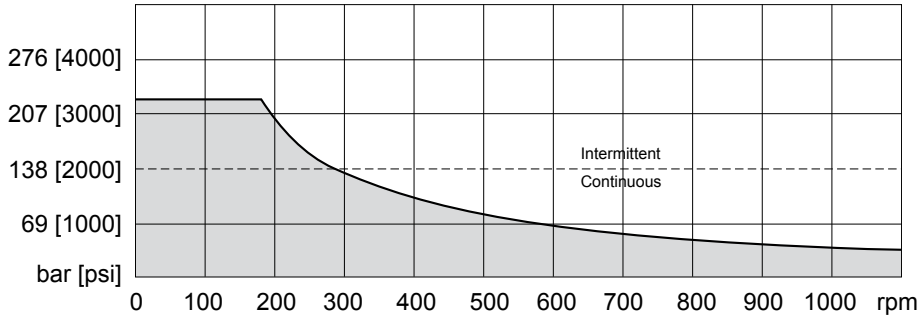
NOTE:
WP motor weights vary $\pm 0,5$ kg [1 lb] depending upon motor configuration.



155 & 156 SERIES TECHNICAL INFORMATION

PERMISSIBLE SHAFT SEAL PRESSURE

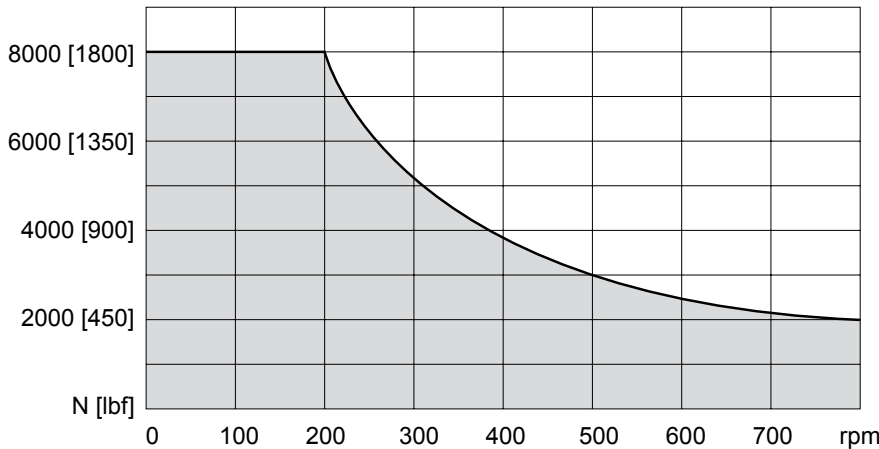
The curve below represents allowable seal pressure at various speeds. Operation in the gray area results in maintaining the rated life of the shaft seal. Actual shaft seal pressure depends on motor configuration (see below).



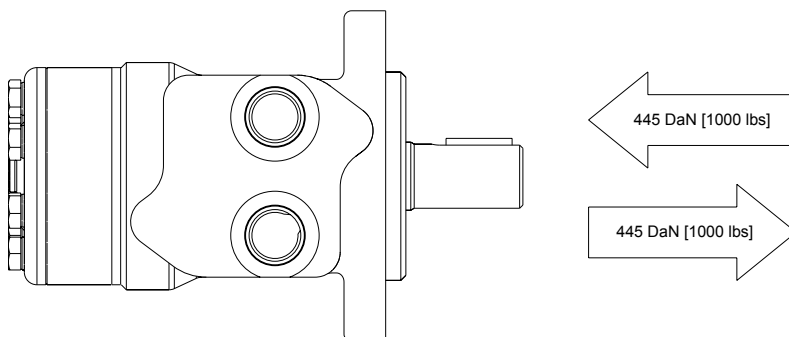
With check valves and drain connection, the shaft seal pressure equals pressure in the drain line. With check valves and no drain connection, shaft seal pressure is identical to output pressure. No check valves and no drain connection, the shaft seal pressure is identical to the average value of input 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
3mm Pilot Mounts - Dimension X

Code	mm [in]	kg [lb]
025	133 [5.24]	6.3 [13.9]
032	134 [5.28]	6.4 [14.1]
040	136 [5.34]	6.5 [14.2]
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.

LENGTH / WEIGHT CHART
8mm Pilot Mounts - Dimension X

Code	mm [in]	kg [lb]
025	128 [5.04]	6.2 [13.6]
032	129 [5.08]	6.3 [13.9]
040	131 [5.16]	6.4 [14.1]
050	131 [5.16]	6.4 [14.1]
060	132 [5.20]	6.4 [14.1]
080	134 [5.28]	6.5 [14.3]
100	137 [5.39]	6.6 [14.5]
125	141 [5.55]	6.7 [14.7]
160	145 [5.71]	6.8 [15.0]
200	150 [5.91]	7.0 [15.4]
250	157 [6.18]	7.2 [15.8]
315	165 [6.50]	7.5 [16.5]
400	176 [6.93]	7.8 [17.2]

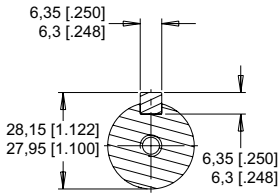
NOTE:
WP motor weights vary ± 0,5 kg [1 lb] depending upon motor configuration.



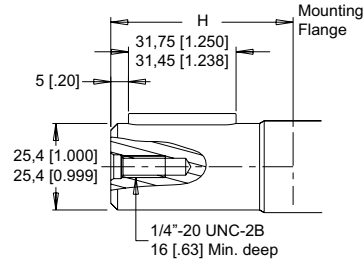
155 & 156 SERIES SHAFTS

10 1" Straight

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



15 1" Straight Extended

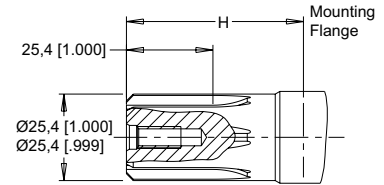


02 6B Spline (1/4" UNC Tap)

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



04 6B Spline (M8 x 1.25 Tap)



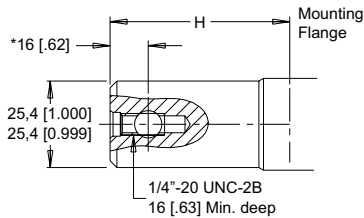
05 1" Pinhole 9,5 [.375]

66 1" Pinhole 8,0 [.315]

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

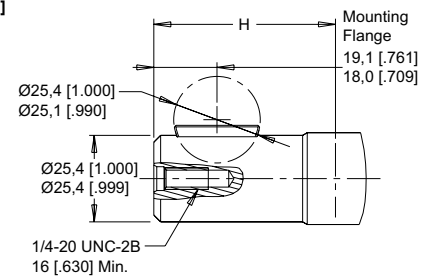
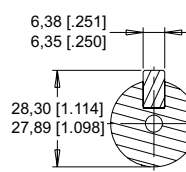


53 1" Pinhole 10,3 [.406]



B1 1" Straight with Woodruff Key

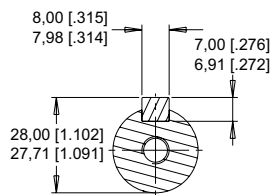
Max. Torque: 655 Nm [5800 lb-in]



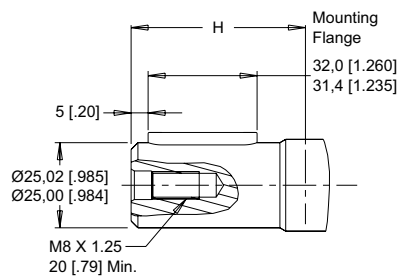
NOTE: *For 66 shaft subtract 4,6 [.18] from this dimension.

12 25mm Straight

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

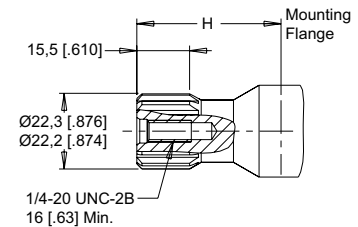


16 25mm Straight Extended



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]	15	67,1 [2.642]
02	50,3 [1.980]	16	67,6 [2.661]
04	50,3 [1.980]	53	50,3 [1.980]
05	50,3 [1.980]	66	55,3 [2.177]
10	50,3 [1.980]	B1	50,3 [1.980]
12	55,3 [2.177]		

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

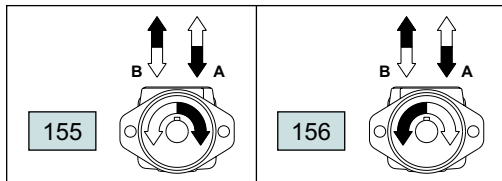


155 & 156 SERIES MODEL CODE BUILDER

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

025	25 cc	[1.5 in ³ /rev]	125	125 cc	[7.6 in ³ /rev]
032	32 cc	[2.0 in ³ /rev]	160	154 cc	[9.4 in ³ /rev]
040	40 cc	[2.5 in ³ /rev]	200	190 cc	[11.6 in ³ /rev]
050	50 cc	[3.0 in ³ /rev]	250	240 cc	[14.6 in ³ /rev]
060	59 cc	[3.6 in ³ /rev]	315	303 cc	[18.5 in ³ /rev]
080	78 cc	[4.8 in ³ /rev]	400	388 cc	[23.7 in ³ /rev]
100	96 cc	[5.9 in ³ /rev]			

STEP 3 - Select a housing option

A06	2-Hole 3/4" O-Ring With End Ports (S)
A08	2-Hole 1/2" BSP.F With End Ports (S)
AP6	2-Hole 3/4" O-Ring With End Ports 8mm Pilot
AP8	2-Hole 1/2" BSP.F With End Ports 8mm Pilot
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 8mm Pilot
A63	2-Hole 1/2" BSP.F Offset Manifold 8mm Pilot
A68	2-Hole 1/2" BSP.F Aligned 8mm Pilot
A69	2-Hole 7/8" O-Ring Offset Ports 8mm Pilot
AC2	4-Hole 1/2" BSP.F Offset Ports 8mm Pilot Valve Cavity
AC3	4-Hole 1/2" BSP.F Offset Manifold 8mm Pilot

STEP 3 (Continued) - Select a housing option

AC7	4-Hole Manifold Ports 8mm Pilot
AC8	4-Hole 1/2" BSP.F Aligned Ports 8mm Pilot
F30	4-Hole 1/2" NPT Aligned Ports (S)
F31	4-Hole 7/8" O-ring Aligned Ports (S)
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)

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)

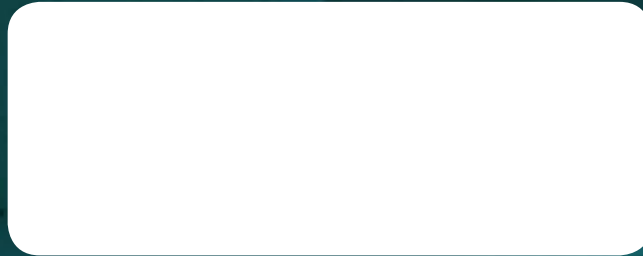
NOTE: (S) - STEP 3 Housings available for use with speed sensors. STEP 4 Shafts available for use with speed sensors. STEP 7 Speed sensor options.

STEP 8 - Select a miscellaneous option

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

Delivering The Power To Get Work Done.

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