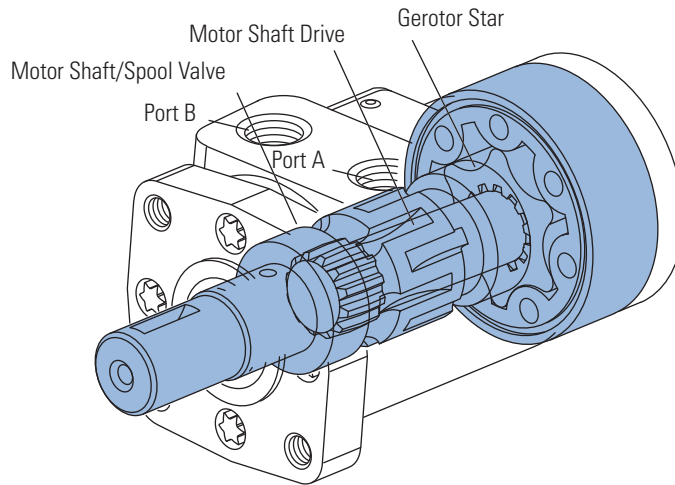


H Series (101-)

Char-Lynn H Series Hydraulic Motors are available at Northern Hydraulics. Please call 1-800-823-4937 or visit www.northernhydraulics.net

Highlights



Description

Designed for medium duty applications, these motors use industry-proven spool valve technology combined with state-of-the-art gerotors. In addition, a wide variety of mounting flanges, shafts, Ports and valving options provide design flexibility. Direction of shaft rotation and shaft speed can be controlled easily and smoothly throughout the speed range of the motor, and equipment can be driven direct, eliminating costly mechanical components.

Specifications

Gerotor Element	13 Displacements
Flow l/min [GPM]	57 [15] Continuous***
	76 [20] Intermittent**
Speed	Up to 1100 RPM
Pressure bar [PSI]	125 [1800] Cont.***
	165 [2400] Inter.**
Torque Nm [lb-in]	407 [3604] Cont.***
	520 [4600] Inter.**

*** Continuous—(Cont.) Continuous rating, motor may be run continuously at these ratings.

** Intermittent—(Inter.) Intermittent operation, 10% of every minute.

Features:

- Time-tested Char-Lynn drive set
- Three moving components (gerotor-star, drive, and shaft)
- Optimized drive running angle
- Three-zone pressure design (inlet, return and case)
- Variety of displacements, shafts and mounts
- Special options to meet customer needs

Benefits:

- High efficiency
- Powerful compact package
- Design flexibility
- Extended leak-free performance

Applications:

- Agricultural augers, harvesters, seeders
- Car wash brushes
- Food processing
- Railroad maintenance equipment
- Machine tools
- Conveyors
- Industrial sweepers and floor polishers
- Saw mill works
- Turf equipment
- Concrete and asphalt equipment
- Skid steer attachments
- Many more

B-2



Conveyor



Combine



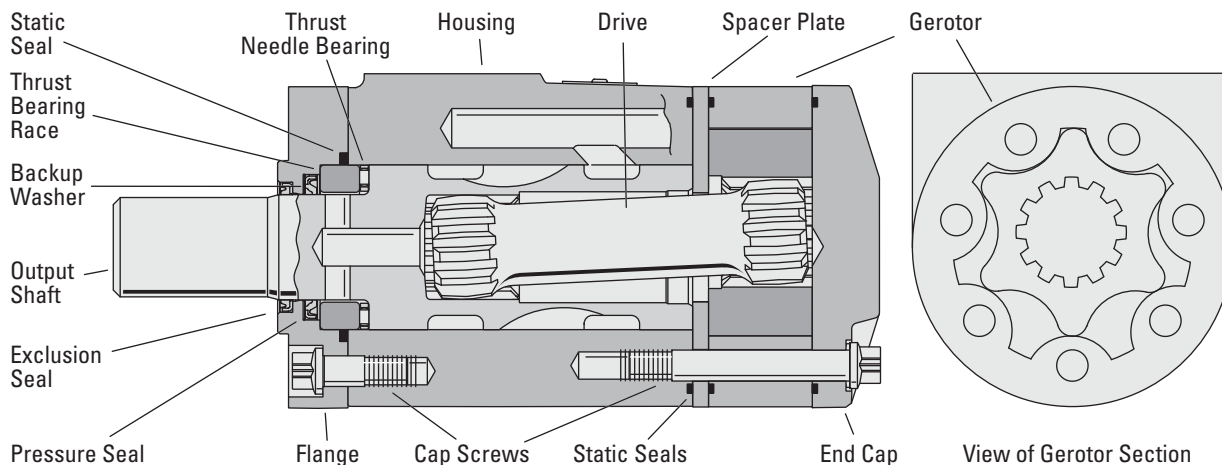
Sweeper



Salt and Sand Spreader

H Series (101-)

Specifications



SPECIFICATION DATA – H MOTORS

Displ. cm ³ /r [in ³ /r]		36 [2.2]	46 [2.8]	59 [3.6]	74 [4.5]	97 [5.9]	120 [7.3]	146 [8.9]	159 [9.7]	185 [11.3]	231 [14.1]	293 [17.9]	370 [22.6]	739 [45.1]
Max. Speed (RPM) @ Continuous Flow		1021	969	953	760	585	469	385	353	304	243	192	152	74
Flow LPM [GPM]	Continuous	38 [10]	45 [12]	57 [15]	57 [15]	57 [15]	57 [15]	57 [15]	57 [15]	57 [15]	57 [15]	57 [15]	57 [15]	57 [15]
	Intermittent	38 [10]	53 [14]	64 [17]	68 [18]	68 [18]	76 [20]	76 [20]	76 [20]	76 [20]	76 [20]	76 [20]	76 [20]	76 [20]
Torque Nm [lb-in]	Continuous	56 [497]	73 [650]	91 [802]	118 [1044]	155 [1368]	192 [1699]	221 [1954]	233 [2059]	265 [2343]	302 [2669]	351 [3110]	407 [3604]	389 [3440]
	Intermittent	75 [668]	99 [876]	122 [1076]	158 [1401]	207 [1829]	257 [2278]	300 [2653]	319 [2824]	356 [3151]	415 [3671]	466 [4121]	484 [4283]	520 [4600]
Min. Starting Torque @ Int. Pressure	@ Cont. Pressure	46 [410]	59 [520]	76 [670]	95 [840]	124 [1100]	154 [1360]	176 [1560]	186 [1650]	211 [1870]	238 [2110]	282 [2500]	330 [2920]	316 [2800]
	@ Int. Pressure	63 [560]	81 [720]	104 [920]	130 [1150]	171 [1510]	2102 [1860]	46 [2180]	262 [2320]	293 [2590]	339 [3000]	388 [3430]	408 [3610]	434 [3840]
Pressure ΔBar [Δ PSI]	Continuous	124 [1800]	124 [1800]	124 [1800]	124 [1800]	124 [1800]	124 [1800]	117 [1700]	114 [1650]	110 [1600]	100 [1450]	93 [1350]	86 [1250]	41 [600]
	Intermittent	165 [2400]	165 [2400]	165 [2400]	165 [2400]	165 [2400]	165 [2400]	159 [2300]	155 [2250]	148 [2150]	138 [2000]	124 [1800]	103 [1500]	55 [800]
End Ported Units Only														
Δ Bar [Δ PSI]	Cont. Pressure	83 [1200]	83 [1200]	76 [1100]	76 [1100]	76 [1100]	69 [1000]	69 [1000]	69 [1000]	62 [900]	55 [800]	48 [700]	57 [825]	27 [396]
	Intermittent	117 [1700]	117 [1700]	110 [1600]	110 [1600]	110 [1600]	103 [1500]	103 [1500]	103 [1500]	91 [1400]	90 [1300]	83 [1200]	68 [990]	36 [528]
Weight kg [lb]		5,1 [11.2]	5,1 [11.2]	5,2 [11.5]	5,2 [11.5]	5,4 [11.8]	5,5 [12.1]	5,6 [12.4]	5,7 [12.5]	5,8 [12.8]	6,0 [13.3]	6,3 [14.0]	6,7 [14.7]	8,4 [18,6]

A simultaneous maximum torque and maximum speed NOT recommended.

Note:

To assure best motor life, run motor for approximately one hour at 30% of rated pressure before application to full load. Be sure motor is filled with fluid prior to any load applications.

Note:

Δ pressure is derated for end ported units.

Maximum Inlet Pressure:

172 Bar [2500 PSI] without regard to Δ Bar [Δ PSI] and/or back pressure ratings or combination thereof.

6B splined or Tapered shafts are recommended whenever operation above 282 NM [2500 lb-in] of torque, especially for those applications subject to frequent reversals.

Δ Pressure:

The true Δ bar [Δ PSI] difference between inlet port and outlet port

Continuous Rating:

Motor may be run continuously at these ratings

Intermittent Operation:

10% of every minute

Recommended Fluids:

Recommended Fluids — Premium quality, anti-wear type hydraulic oil. Minimum oil viscosity (at operating temperature) should be the highest of the following:

$$100 \text{ SUS or } \left[\frac{300 \times \text{Bar}}{\text{RPM}} = \text{SUS} \right]$$

$$\left[\frac{20 \times \text{PSI}}{\text{RPM}} = \text{SUS} \right]$$

Recommended System Operating Temp.:

-34°C to 82°C [-30°F to 180°F]

Recommended Filtration:

per ISO Cleanliness Code 4406, level 20/18/13



H Series (101-)

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Performance Data

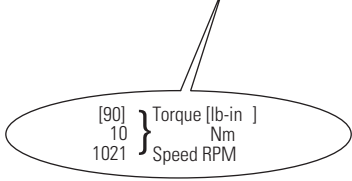
Motors run with high efficiency in all areas designated with a number for torque and speed, however for best motor life select a motor to run with a torque and speed range printed in the light shaded area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production.

 Continuous
 Intermittent

30 cm³/r [2.2 in³/r]
 Δ Pressure Bar [PSI]
 Continuous

		[200]	[400]	[600]	[800]	[1000]	[1200]	[1400]	[1600]	[1800]	Max. Continuous	Max. Intermittent
		14	28	41	55	69	83	97	110	124	[2400]	165
Flow LPM [GPM]	[2]	[49]	[103]	[162]	[189]	[270]	[325]	[379]	[432]	[489]	[650]	73
	7.6	6 204	12 201	18 198	21 194	31 189	37 184	43 177	49 170	55 162	73 122	122
	[4]	[47]	[106]	[160]	[191]	[274]	[327]	[384]	[439]	[495]	[654]	74
	15.1	5 408	12 407	18 402	22 399	31 394	37 387	43 381	50 373	56 365	74 323	323
	[6]	[44]	[102]	[158]	[188]	[272]	[328]	[383]	[440]	[496]	[661]	75
22.7	5 613	12 612	18 609	21 604	31 599	37 591	43 586	50 576	56 565	75 523	523	
[8]	[40]	[97]	[153]	[184]	[270]	[326]	[383]	[440]	[497]	[668]	75	
30.3	5 817	11 817	17 814	21 807	31 799	37 793	43 785	50 776	56 762	75 721	721	
[10]	[36]	[90]	[148]	[180]	[265]	[322]	[380]	[438]	[495]	[664]	75	
37.9	4 1021	10 1021	17 1015	20 1008	30 1001	36 991	43 981	49 969	56 959	75 920	920	



46 cm³/r [2.8 in³/r]
 Δ Pressure Bar [PSI]
 Continuous

		[200]	[400]	[600]	[800]	[1000]	[1200]	[1400]	[1600]	[1800]	Max. Continuous	Max. Intermittent
		14	28	41	55	69	83	97	110	124	[2400]	165
Flow LPM [GPM]	[2]	[64]	[136]	[212]	[284]	[355]	[426]	[497]	[567]	[641]	[852]	96
	7.6	7 161	15 158	24 156	32 153	40 148	48 145	56 139	64 133	72 127	96 95	95
	[4]	[61]	[139]	[209]	[286]	[359]	[429]	[503]	[576]	[649]	[857]	97
	15.1	7 323	16 320	24 316	32 314	41 310	48 304	57 300	65 293	73 287	97 253	253
	[6]	[58]	[134]	[207]	[282]	[356]	[430]	[502]	[577]	[650]	[867]	98
22.7	7 486	15 481	23 479	32 475	40 471	49 464	57 461	65 453	73 444	98 410	410	
[8]	[52]	[128]	[200]	[276]	[354]	[428]	[502]	[577]	[651]	[876]	99	
30.3	6 648	14 643	23 640	31 635	40 628	48 623	57 617	65 610	74 599	99 566	566	
[10]	[47]	[118]	[194]	[269]	[347]	[423]	[498]	[575]	[649]	[871]	98	
37.9	5 808	13 803	22 798	30 793	39 787	48 779	56 771	65 761	73 753	98 722	722	
[12]	[36]	[109]	[188]	[260]	[340]	[417]	[492]	[567]	[643]	[864]	98	
45.4	4 969	12 964	21 960	29 952	38 946	47 938	56 931	64 922	73 914	98 877	877	
[14]	[25]	[98]	[175]	[249]	[327]	[404]	[484]	[559]	[634]			
53.0	3 1127	11 1123	20 1115	28 1108	37 1100	46 1093	55 1086	63 1079	72 1068			

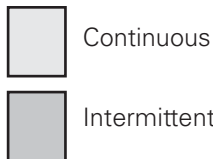
H Series (101-)

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Performance Data

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		59 cm ³ /r [3.6 in ³ /r]											
		Δ Pressure Bar [PSI]											
		Continuous											
		[200]	[400]	[600]	[800]	[1000]	[1200]	[1400]	[1600]	[1800]			
		14	28	41	55	69	83	97	110	124		Max. Continuous	Max. Intermittent
Flow LPM [GPM]	[2]	[79]	[169]	[260]	[305]	[437]	[526]	[616]	[704]	[796]			[1055]
	7,6	9	19	29	34	49	59	70	80	90			119
		127	125	123	121	117	114	109	103	96			65
	[4]	[76]	[168]	[257]	[307]	[441]	[529]	[620]	[710]	[800]			[1065]
	15,1	9	19	29	35	50	60	70	80	90			120
		254	254	251	249	246	241	236	230	224			193
	[6]	[73]	[161]	[252]	[303]	[439]	[529]	[618]	[709]	[802]			[1069]
	22,7	8	18	28	34	50	60	70	80	91			121
		381	381	380	377	373	368	364	358	349			319
	[8]	[64]	[151]	[243]	[294]	[428]	[519]	[609]	[701]	[794]			[1076]
	30,3	7	17	27	33	48	59	69	79	90			122
		508	508	508	504	500	496	491	484	476			446
	[10]	[57]	[141]	[234]	[283]	[419]	[512]	[602]	[693]	[786]			[1071]
	37,9	6	16	26	32	47	58	68	78	89			121
		635	635	634	630	626	621	614	608	601			571
[12]	[45]	[131]	[227]	[274]	[409]	[505]	[593]	[684]	[778]			[1058]	
45,4	5	15	26	31	46	57	67	77	88			120	
	762	762	762	757	753	747	741	734	728			694	
[14]	[33]	[118]	[213]	[266]	[396]	[492]	[583]	[676]	[770]			[1055]	
53,0	4	13	24	30	45	56	66	76	87			119	
	889	889	887	882	877	872	866	860	851			813	
Max. Continuous	[15]	[29]	[111]	[205]	[260]	[389]	[486]	[576]	[670]	[765]			[1055]
	3	13	23	29	44	55	65	76	86			119	
	56,8	953	953	951	945	940	935	929	921	913			872
Max. Intermittent	[20]	[17]	[98]	[192]	[252]	[377]	[475]	[567]	[660]	[757]			
	2	11	22	28	43	54	64	75	86				
	75,7	1080	1080	1077	1071	1067	1062	1055	1049	1040			



		74 cm ³ /r [4.5 in ³ /r]											
		Δ Pressure Bar [PSI]											
		Continuous											
		[200]	[400]	[600]	[800]	[1000]	[1200]	[1400]	[1600]	[1800]			
		14	28	41	55	69	83	97	110	124		Max. Continuous	Max. Intermittent
Flow LPM [GPM]	[2]	[103]	[220]	[339]	[454]	[569]	[685]	[801]	[916]	[1036]			[1373]
	7,6	12	25	38	51	64	77	91	103	117			155
		101	99	98	96	93	90	86	81	76			51
	[4]	[99]	[219]	[335]	[457]	[574]	[689]	[808]	[925]	[1042]			[1386]
	15,1	11	25	38	52	65	78	91	105	118			157
		203	201	199	197	194	191	187	182	177			153
	[6]	[94]	[210]	[328]	[451]	[571]	[689]	[805]	[924]	[1044]			[1392]
	22,7	11	24	37	51	65	78	91	104	118			157
		305	303	301	298	296	292	288	283	276			252
	[8]	[86]	[196]	[319]	[438]	[558]	[676]	[793]	[913]	[1033]			[1401]
	30,3	10	22	36	49	63	76	90	103	117			158
		406	404	402	399	396	393	388	383	377			352
	[10]	[74]	[183]	[310]	[422]	[545]	[667]	[784]	[903]	[1024]			[1394]
	37,9	8	21	35	48	62	75	89	102	116			158
		507	505	502	499	496	492	486	482	476			452
[12]	[58]	[171]	[295]	[408]	[533]	[657]	[773]	[891]	[1013]			[1377]	
45,4	7	19	33	46	60	74	87	101	114			156	
	608	606	603	600	596	591	587	581	576			549	
[14]	[43]	[154]	[277]	[396]	[515]	[640]	[760]	[880]	[1002]			[1374]	
53,0	5	17	31	45	58	72	86	99	113			155	
	709	706	702	698	694	691	686	681	674			643	
Max. Continuous	[15]	[36]	[145]	[268]	[387]	[506]	[632]	[750]	[873]	[996]			[1373]
	4	16	30	44	57	71	85	99	113			155	
	56,8	760	757	753	749	744	740	735	729	723			690
Max. Intermittent	[20]	[14]	[121]	[233]	[351]	[482]	[609]	[725]	[856]	[981]			
	2	14	26	40	54	69	82	97	111				
	75,7	904	902	898	895	891	887	882	877	869			

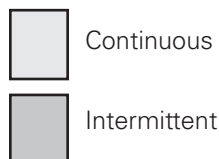
H Series (101-)

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Performance Data

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		97 cm ³ /r [5.9 in ³ /r]										Max. Continuous	Max. Intermittent
		Δ Pressure Bar [PSI]											
		Continuous											
		[200]	[400]	[600]	[800]	[1000]	[1200]	[1400]	[1600]	[1800]	[2400]		
		14	28	41	55	69	83	97	110	124		165	
Flow LPM [GPM]	[2]	[134]	[292]	[442]	[593]	[746]	[899]	[1054]	[1209]	[1365]	[1806]		
	7,6	15 78	33 76	50 75	67 73	84 71	102 68	119 65	137 61	154 55	204 33		
	[4]	[131]	[281]	[436]	[596]	[750]	[903]	[1059]	[1212]	[1367]	[1828]		
	15,1	15 156	32 155	49 153	67 151	85 149	102 147	120 143	137 139	154 134	207 113		
	[6]	[126]	[269]	[425]	[588]	[747]	[900]	[1054]	[1206]	[1368]	[1823]		
	22,7	14 234	30 233	48 231	66 230	84 228	102 224	119 221	136 217	155 210	206 189		
	[8]	[110]	[246]	[408]	[566]	[718]	[873]	[1023]	[1177]	[1339]	[1829]		
	30,3	12 312	28 311	46 310	64 308	81 305	99 303	116 300	133 295	151 291	207 269		
	[10]	[96]	[231]	[392]	[539]	[699]	[859]	[1005]	[1156]	[1318]	[1821]		
	37,9	11 390	26 389	44 387	61 385	79 383	97 380	114 376	131 373	149 368	206 346		
[12]	[77]	[218]	[378]	[522]	[681]	[844]	[990]	[1142]	[1301]	[1792]			
45,4	9 468	25 467	43 465	59 463	77 460	95 457	112 453	129 449	147 445	202 421			
[14]	[60]	[197]	[358]	[513]	[662]	[828]	[973]	[1131]	[1293]	[1776]			
53,0	7 546	22 544	40 542	58 539	75 537	94 535	110 531	128 526	146 521	201 499			
Max. Continuous	[15]	[52]	[189]	[346]	[495]	[651]	[819]	[963]	[1126]	[1286]	[1778]		
	56,8	6 585	21 583	39 581	56 578	74 575	93 573	109 569	127 564	145 559	201 536		
Max. Intermittent	[20]	[25]	[157]	[311]	[455]	[625]	[790]	[941]	[1110]	[1272]			
	75,7	3 701	18 700	35 697	51 694	71 691	89 688	106 684	125 681	144 674			



		120 cm ³ /r [7.3 in ³ /r]										Max. Continuous	Max. Intermittent
		Δ Pressure Bar [PSI]											
		Continuous											
		[200]	[400]	[600]	[800]	[1000]	[1200]	[1400]	[1600]	[1800]	[2400]		
		14	28	41	55	69	83	97	110	124		165	
Flow LPM [GPM]	[2]	[162]	[357]	[544]	[736]	[927]	[1116]	[1305]	[1498]	[1687]	[2231]		
	7,6	18 62	40 61	61 61	83 59	105 58	126 55	147 53	169 49	191 45	252 26		
	[4]	[160]	[348]	[539]	[736]	[930]	[1119]	[1316]	[1506]	[1698]	[2268]		
	15,1	18 125	39 124	61 123	83 121	105 120	126 119	149 116	170 114	192 110	256 90		
	[6]	[155]	[338]	[530]	[729]	[923]	[1116]	[1310]	[1500]	[1699]	[2271]		
	22,7	18 188	38 187	60 186	82 185	104 183	126 180	148 178	169 175	192 170	257 152		
	[8]	[139]	[319]	[515]	[710]	[901]	[1094]	[1283]	[1476]	[1673]	[2278]		
	30,3	16 250	36 250	58 249	80 247	102 245	124 243	145 241	167 237	189 233	257 216		
	[10]	[121]	[303]	[497]	[686]	[883]	[1081]	[1267]	[1460]	[1655]	[2268]		
	37,9	14 313	34 312	56 311	78 309	100 308	122 306	143 302	165 300	187 296	256 278		
[12]	[102]	[288]	[480]	[664]	[862]	[1060]	[1246]	[1440]	[1640]	[2232]			
45,4	12 375	33 374	54 373	75 371	97 370	120 367	141 365	163 361	185 358	252 338			
[14]	[78]	[263]	[458]	[652]	[841]	[1041]	[1228]	[1420]	[1616]	[2213]			
53,0	9 438	30 437	52 435	74 433	95 431	118 430	139 427	160 423	183 419	250 401			
Max. Continuous	[15]	[67]	[253]	[446]	[632]	[828]	[1030]	[1214]	[1411]	[1608]	[2205]		
	56,8	8 469	29 468	50 466	71 464	94 462	116 460	137 458	159 454	182 450	249 430		
Max. Intermittent	[20]	[20]	[202]	[384]	[581]	[778]	[971]	[1169]	[1356]	[1559]			
	75,7	2 626	23 624	43 621	66 618	88 617	110 614	132 611	153 609	176 606			

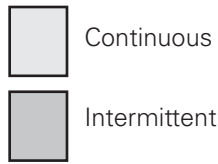
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Performance Data

Motors run with high efficiency in all areas designated with a number for torque and speed, however for best motor life select a motor to run with a torque and speed range printed in the light shaded area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production.



		146 cm ³ /r [8.9 in ³ /r] Δ Pressure Bar [PSI] Continuous									Max. Continuous	Max. Intermittent
		[200]	[400]	[600]	[800]	[1000]	[1200]	[1400]	[1600]	[1700]	[2300]	
		14	28	41	55	69	83	97	110	117	159	
Flow LPM [GPM]	[2]	[198]	[435]	[664]	[897]	[1130]	[1361]	[1591]	[1827]	[1942]	[2611]	
	7,6	22 51	49 50	75 50	101 49	128 47	154 45	180 43	206 40	219 39	295 24	
	[4]	[196]	[424]	[657]	[898]	[1133]	[1365]	[1604]	[1836]	[1954]	[2648]	
	15,1	22 103	48 102	74 101	101 99	128 99	154 97	181 95	207 93	221 92	299 78	
	[6]	[189]	[412]	[646]	[889]	[1125]	[1361]	[1598]	[1829]	[1951]	[2653]	
	22,7	21 154	47 153	73 152	100 151	127 150	154 148	181 146	207 143	220 141	300 128	
	[8]	[169]	[389]	[628]	[866]	[1098]	[1333]	[1564]	[1799]	[1919]	[2649]	
	30,3	19 205	44 205	71 204	98 203	124 201	151 200	177 197	203 195	217 193	299 180	
	[10]	[148]	[369]	[605]	[836]	[1076]	[1318]	[1544]	[1780]	[1899]	[2789]	
	37,9	17 257	42 256	68 255	94 253	122 252	149 251	174 248	201 246	215 244	315 231	
[12]	[125]	[351]	[586]	[810]	[1051]	[1293]	[1519]	[1756]	[1878]	[2606]		
45,4	14 308	40 307	66 306	92 305	119 303	146 301	172 299	198 296	212 295	294 281		
[14]	[95]	[321]	[558]	[795]	[1026]	[1290]	[1497]	[1731]	[1851]	[2580]		
53,0	11 359	36 358	63 357	90 355	116 354	146 352	169 350	196 347	209 346	292 331		
Max. Continuous	[15]	[82]	[308]	[544]	[771]	[1010]	[1256]	[1480]	[1720]	[1840]	[2569]	
56,8	9 85	35 384	61 383	87 381	114 379	142 378	167 375	194 373	208 371	290 356		
Max. Intermittent	[20]	[24]	[246]	[468]	[708]	[948]	[1184]	[1425]	[1653]	[1780]		
75,7	3 513	28 512	53 509	80 507	107 506	134 504	161 501	187 499	201 498			

		159 cm ³ /r [9.7 in ³ /r] Δ Pressure Bar [PSI] Continuous									Max. Continuous	Max. Intermittent
		[200]	[400]	[600]	[800]	[1000]	[1200]	[1400]	[1600]	[1650]	[2250]	
		14	28	41	55	69	83	97	110	134	155	
Flow LPM [GPM]	[2]	[209]	[465]	[715]	[973]	[1228]	[1478]	[1724]	[1981]	[2046]	[2764]	
	7,6	24 47	53 46	81 46	110 45	139 44	167 42	195 40	224 38	231 37	312 23	
	[4]	[210]	[460]	[710]	[971]	[1229]	[1480]	[1745]	[1996]	[2059]	[2813]	
	15,1	24 94	52 94	80 93	110 91	139 91	167 90	197 89	226 87	233 87	318 76	
	[6]	[205]	[454]	[704]	[965]	[1216]	[1477]	[1738]	[1991]	[2055]	[2824]	
	22,7	23 141	51 141	80 140	109 139	137 138	167 136	196 134	225 132	232 132	319 119	
	[8]	[186]	[440]	[693]	[951]	[1205]	[1461]	[1716]	[1973]	[2038]	[2808]	
	30,3	21 188	50 188	78 187	107 186	136 185	165 183	194 181	223 179	230 178	317 166	
	[10]	[164]	[422]	[671]	[930]	[1189]	[1451]	[1702]	[1965]	[2032]	[2789]	
	37,9	19 235	48 234	76 234	105 232	134 232	164 230	192 228	219 226	230 225	315 213	
[12]	[144]	[404]	[652]	[900]	[1163]	[1421]	[1674]	[1937]	[2004]	[2770]		
45,4	16 282	46 281	74 281	102 279	131 279	161 277	189 275	219 273	226 272	313 260		
[14]	[109]	[374]	[623]	[883]	[1140]	[1396]	[1653]	[1900]	[1963]	[2727]		
53,0	12 330	42 329	70 328	100 327	129 325	158 323	187 322	215 319	222 319	308 306		
Max. Continuous	[15]	[92]	[359]	[612]	[861]	[1123]	[1381]	[1633]	[1886]	[1950]	[2712]	
56,8	10 353	41 352	69 351	97 350	127 348	156 347	185 345	213 343	220 342	306 330		
Max. Intermittent	[20]	[26]	[268]	[510]	[772]	[1034]	[1290]	[1553]	[1802]	[1865]		
75,7	3 471	30 470	58 467	87 465	117 464	146 462	175 460	204 458	211 458			





H Series (101-) Please call 1-800-823-4937 or visit www.northernhydraulics.net

Performance Data

Motors run with high efficiency in all areas designated with a number for torque and speed, however for best motor life select a motor to run with a torque and speed range printed in the light shaded area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production.

 Continuous
 Intermittent

		185 cm ³ /r [11.3 in ³ /r]								Max. Continuous	Max. Intermittent
		Δ Pressure Bar [PSI]									
		Continuous									
		[200]	[400]	[600]	[800]	[1000]	[1200]	[1400]	[1600]		
		14	28	41	55	69	83	97	110		[2150] 148
Flow LPM [GPM]	[2]	[257] 29 40	[554] 63 40	[847] 96 39	[1150] 130 38	[1447] 163 37	[1739] 196 36	[2035] 230 33	[2320] 262 29		[3103] 351 12
	[4]	[254] 29 81	[546] 62 81	[845] 95 80	[1145] 129 79	[1448] 164 78	[1744] 197 77	[2049] 232 76	[2343] 265 74		[3147] 356 63
	[6]	[246] 28 121	[540] 61 121	[834] 94 120	[1137] 128 120	[1434] 162 119	[1736] 196 117	[2036] 230 115	[2337] 264 112		[3151] 356 100
	[8]	[224] 25 162	[520] 59 162	[820] 93 161	[1117] 126 160	[1414] 160 159	[1716] 194 157	[2014] 228 155	[2315] 262 152		[3133] 354 140
	[10]	[202] 23 202	[499] 56 202	[793] 90 201	[1095] 124 201	[1394] 158 200	[1699] 192 198	[1997] 226 196	[2299] 260 193		[3112] 352 181
	[12]	[176] 20 243	[475] 54 242	[767] 87 242	[1063] 120 241	[1368] 155 240	[1664] 188 238	[1969] 222 236	[2268] 256 234		[3088] 349 222
	[14]	[140] 16 283	[443] 50 283	[735] 83 282	[1035] 117 281	[1340] 151 280	[1637] 185 279	[1936] 219 277	[2227] 252 274		[3051] 345 262
Max. Continuous	[15]	[120] 14 304	[425] 48 303	[719] 81 302	[1014] 115 301	[1320] 149 300	[1618] 183 299	[1914] 216 297	[2205] 249 294		[3023] 342 283
Max. Intermittent	[20]	[27] 3 405	[321] 36 404	[612] 69 402	[911] 103 401	[1211] 137 400	[1504] 170 398	[1795] 203 397			

		231 cm ³ /r [14.1 in ³ /r]								Max. Continuous	Max. Intermittent
		Δ Pressure Bar [PSI]									
		Continuous									
		[200]	[400]	[600]	[800]	[1000]	[1200]	[1400]	[1450]		
		14	28	41	55	69	83	97	100		[2000] 138
Flow LPM [GPM]	[2]	[338] 38 32	[707] 80 32	[1074] 121 31	[1456] 165 30	[1827] 206 30	[2192] 248 28	[2572] 291 26	[2657] 300 25		
	[4]	[328] 37 65	[695] 79 65	[1076] 122 64	[1447] 163 63	[1827] 206 62	[2201] 249 62	[2577] 291 60	[2669] 302 60		[3671] 415 50
	[6]	[317] 36 97	[687] 78 97	[1057] 119 97	[1434] 162 96	[1811] 205 95	[2186] 247 94	[2555] 289 92	[2650] 299 91		[3668] 414 80
	[8]	[289] 33 130	[659] 74 130	[1038] 117 130	[1406] 159 129	[1777] 201 128	[2160] 244 127	[2531] 286 124	[2625] 297 124		[3644] 412 112
	[10]	[265] 30 162	[631] 71 162	[1004] 113 162	[1381] 156 162	[1751] 198 160	[2131] 241 158	[2510] 284 156	[2602] 294 156		[3608] 408 145
	[12]	[230] 26 195	[599] 68 195	[968] 109 194	[1345] 152 194	[1722] 195 193	[2088] 236 192	[2480] 280 189	[2571] 290 189		[3571] 403 178
	[14]	[191] 22 227	[563] 64 227	[927] 105 227	[1299] 147 226	[1686] 190 226	[2058] 233 224	[2428] 274 222	[2519] 285 221		[3532] 399 212
Max. Continuous	[15]	[167] 19 243	[538] 61 243	[904] 102 243	[1279] 145 242	[1661] 188 242	[2030] 229 240	[2404] 272 238	[2493] 282 238		[3488] 394 229
Max. Intermittent	[20]	[29] 3 324	[411] 46 324	[785] 89 323	[1152] 130 322	[1520] 172 322	[1877] 212 320	[2222] 251 319	[2318] 262 318		

 Torque [lb-in]
 Nm
 Speed RPM

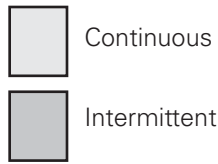
H Series (101-)

Char-Lynn H Series Hydraulic Motors are available at Northern Hydraulics.
Please call 1-800-823-4937 or visit www.northernhydraulics.net

Performance Data

Motors run with high efficiency in all areas designated with a number for torque and speed, however for best motor life select a motor to run with a torque and speed range printed in the light shaded area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production.



		293 cm ³ /r [17.9 in ³ /r]						Max. Continuous	Max. Intermittent
		Δ Pressure Bar [PSI]							
		[200]	[400]	[600]	[800]	[1000]	[1200]	[1350]	[1800]
		14	28	41	55	69	83	93	124
Flow LPM [GPM]	[2]	[427]	[893]	[1361]	[1829]	[2293]	[2672]	[2977]	
	7,6	48 26	101 25	154 25	207 24	259 22	302 16	336 13	
	[4]	[419]	[886]	[1362]	[1833]	[2305]	[2771]	[3110]	[4107]
	15,1	47 51	100 51	154 51	207 50	260 49	313 47	351 44	464 22
	[6]	[402]	[872]	[1342]	[1819]	[2291]	[2757]	[3098]	[4121]
	22,7	45 77	99 77	152 76	206 76	259 74	312 71	350 68	466 54
	[8]	[367]	[838]	[1316]	[1785]	[2252]	[2723]	[3070]	[4086]
	30,3	41 102	95 102	149 102	202 101	254 100	308 98	347 95	462 84
	[10]	[332]	[803]	[1276]	[1749]	[2215]	[2684]	[3034]	[4061]
	37,9	38 128	91 128	144 128	198 127	250 126	303 123	343 120	459 108
[12]	[289]	[760]	[1230]	[1706]	[2177]	[2634]	[2989]	[4012]	
45,4	33 153	86 153	139 153	193 153	246 151	298 149	338 146	453 135	
[14]	[241]	[712]	[1176]	[1650]	[2126]	[2592]	[2935]	[3963]	
53,0	27 179	80 179	133 179	186 179	240 177	293 175	332 172	448 161	
Max. Continuous	[15]	[211]	[683]	[1149]	[1623]	[2096]	[2558]	[2905]	[3914]
	56,8	24 192	77 192	130 192	183 191	237 190	289 188	328 174	442 174
Max. Intermittent	[20]	[43]	[527]	[1001]	[1463]	[1919]	[2375]	[2720]	
	75,7	5 256	60 256	113 255	165 255	217 254	268 252	307 249	

		370 cm ³ /r [22.6 in ³ /r]						Max. Continuous	Max. Intermittent			739 cm ³ /r [45.1 in ³ /r]			Max. Continuous	Max. Intermittent	
		Δ Pressure Bar [PSI]										Δ Pressure Bar [PSI]					
		[200]	[400]	[600]	[800]	[1000]	[1200]	[1250]	[1500]			[200]	[400]	[600]	[800]		
		14	28	41	55	69	83	86	103			14	28	41	55		
Flow LPM [GPM]	[2]	[537]	[1121]	[1715]	[2285]	[2862]						[2]	[1080]	[2250]	[3440]	[4570]	
	7,6	61 20	127 20	194 20	258 19	323 16						7,6	122 10	254 10	389 10	516 9	
	[4]	[532]	[1123]	[1715]	[2308]	[2893]	[3467]	[3604]	[4274]			[4]	[1070]	[2250]	[3440]	[4600]	
	15,1	60 40	127 40	194 40	261 39	327 38	392 36	407 35	483 27			15,1	121 20	254 20	389 19	520 18	
	[6]	[508]	[1100]	[1693]	[2294]	[2884]	[3458]	[3598]	[4283]			[6]	[1020]	[2200]	[3390]	[4590]	
	22,7	57 61	124 61	191 61	259 60	326 58	391 55	407 53	484 47			22,7	115 30	249 30	383 29	519 27	
	[8]	[463]	[1060]	[1661]	[2255]	[2840]	[3414]	[3557]	[4254]			[8]	[945]	[2135]	[3330]	[4515]	
	30,3	52 81	120 81	188 81	255 80	321 79	386 76	402 74	481 68			30,3	107 40	241 40	376 39	510 37	
	[10]	[414]	[1017]	[1613]	[2203]	[2788]	[3363]	[3506]	[4212]			[10]	[840]	[2050]	[3250]	[4430]	
	37,9	47 101	115 101	182 101	249 101	315 99	380 96	396 94	476 88			37,9	95 50	232 50	367 48	501 46	
[12]	[363]	[960]	[1553]	[2152]	[2737]	[3305]	[3446]	[4152]			[12]	[740]	[1945]	[3130]	[4320]		
45,4	41 121	108 121	175 121	243 121	309 119	373 116	389 115	469 109			45,4	84 60	220 59	354 58	488 55		
[14]	[303]	[897]	[1484]	[2086]	[2667]	[3246]	[3386]	[4092]			[14]	[630]	[1820]	[3005]	[4195]		
53,0	34 142	101 142	168 142	236 142	301 140	367 137	383 136	462 130			53,0	71 69	206 68	340 68	474 66		
Max. Continuous	[15]	[266]	[862]	[1452]	[2050]	[2630]	[3206]	[3347]	[4054]			Max. Continuous	[15]	[540]	[1735]	[2905]	[4130]
	56,8	30 152	97 152	164 152	232 152	297 150	362 148	378 147	458 140			56,8	61 74	196 74	328 73	467 72	
Max. Intermittent	[20]	[61]	[671]	[1269]	[1847]	[2410]	[2987]	[3119]			Max. Intermittent	[20]	[143]	[1350]	[2565]	[3705]	
	75,7	7 202	76 202	143 202	209 202	272 202	337 199	352 198			75,7	16 99	153 98	290 97	419 96		



H Series (101-)

Standard Rotation Viewed from Shaft End

Dimensions

(Refer to pages B-4-19 thru B-4-22 for shaft and port dimensions.)

Port A Pressurized — CW

Port B Pressurized — CCW

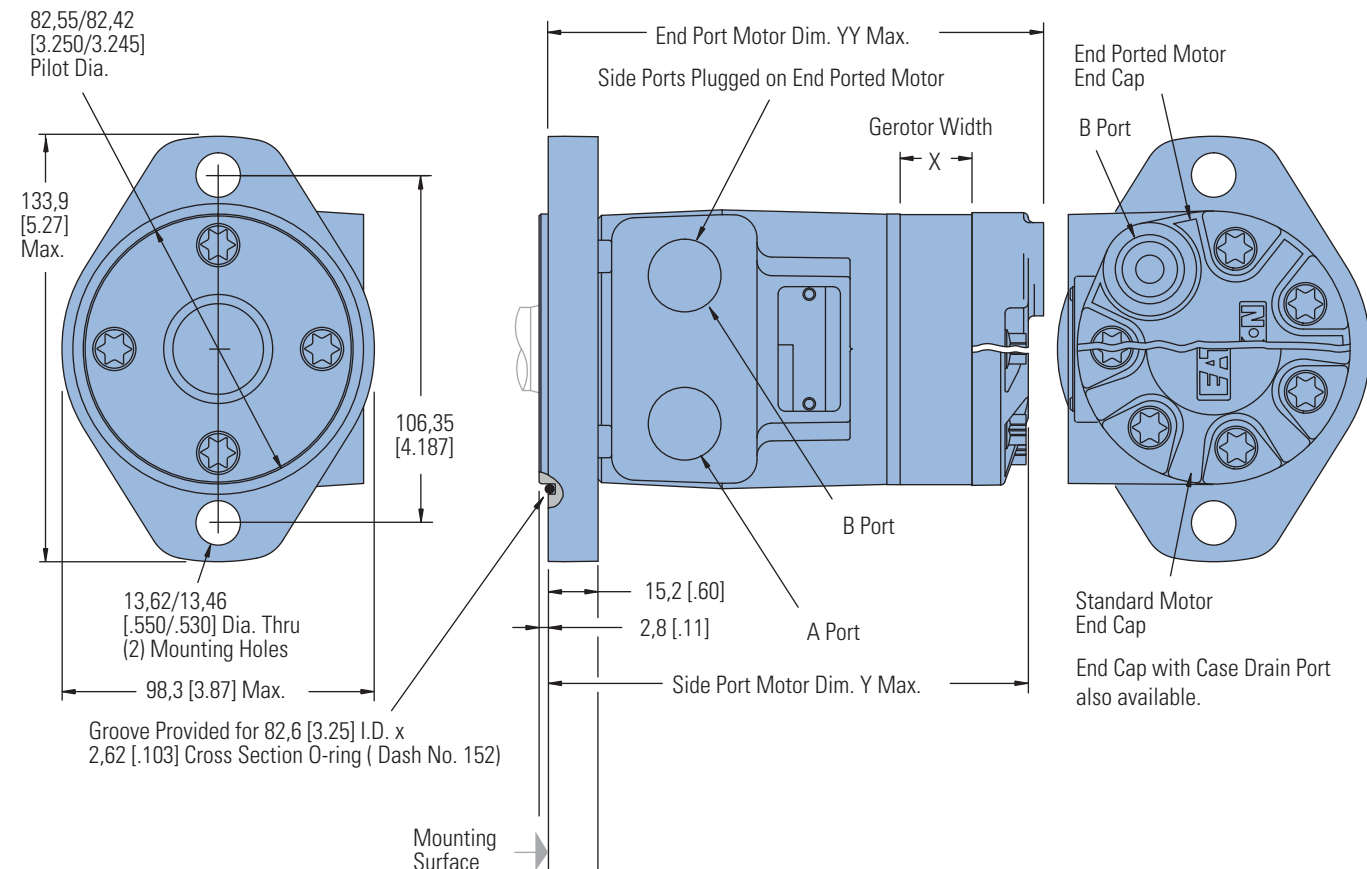
Note:

Mounting surface flatness requirement is ∇ , 13 mm [.005 inch] Max.

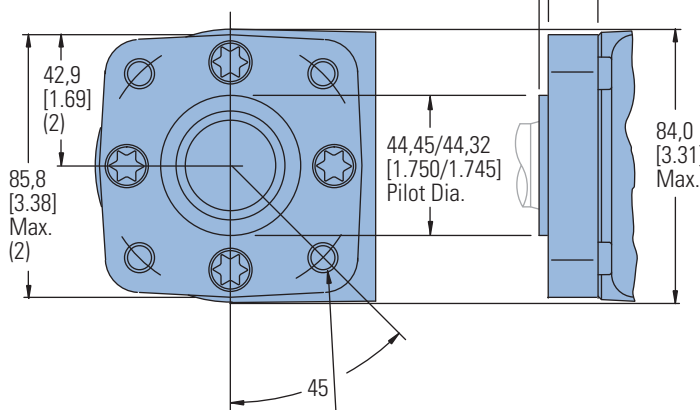
Note:

End ported motor pressure is derated. Reference page B-2-2 for ratings.

2 Bolt Flange



4 Bolt Flange



3/8-16 UNC (15,2 [.60] Max. Bolt Thread Engagement) Mounting Holes (4) Equally Spaced on 82,6 [3.25] Dia. Bolt Circle or M10 x 1,5 (15,2 [.60] Max. Bolt Thread Engagement) Mounting Holes (4) Equally Spaced on 82,6 [3.25] Dia. Bolt Circle

2 AND 4 BOLT FLANGE

Displacement cm ³ /r [in ³ /r]	X mm [inch]	Y mm [inch]	YY mm [inch]
36 [2.2]	6,4 [.25]	132,1 [5.20]	138,5 [5.45]
46 [2.8]	6,4 [.25]	132,1 [5.20]	138,5 [5.45]
59 [3.6]	10,2 [.40]	135,9 [5.35]	142,3 [5.60]
74 [4.5]	10,2 [.40]	135,9 [5.35]	142,3 [5.60]
97 [5.9]	13,2 [.52]	139,0 [5.47]	145,3 [5.72]
120 [7.3]	16,5 [.65]	142,3 [5.60]	148,6 [5.85]
146 [8.9]	20,1 [.79]	145,8 [5.74]	152,2 [5.99]
159 [9.7]	21,9 [.86]	147,6 [5.81]	154,0 [6.06]
185 [11.3]	25,4 [1.00]	151,2 [5.95]	157,5 [6.20]
231 [14.1]	31,8 [1.25]	157,5 [6.20]	
293 [17.9]	40,4 [1.59]	166,2 [6.54]	
370 [22.6]	50,8 [2.00]	176,6 [6.95]	
739 [45.1]	101,6 [4.00]	227,4 [8.95]	

H Series (101-)

Char-Lynn H Series Hydraulic Motors
are available at Northern Hydraulics.
Please call 1-800-823-4937 or visit www.northernhydraulics.net

Use digit prefix —101- plus
four digit number from
charts for complete product
number—Example 101-1001.
Orders will not be accepted
without three digit prefix.

Product Numbers

2 Bolt Flange

SHAFT	PORT SIZE	DISPL. cm ³ /r [in ³ /r] / PRODUCT NUMBER													
		36 [2.2]	46 [2.8]	59 [3.6]	74 [4.5]	97 [5.9]	120 [7.3]	146 [8.9]	159 [9.7]	185 [11.3]	231 [14.1]	293 [17.9]	370 [22.6]	740 [45.0]	
.1 in. Straight w/Woodruff key	7/8-14 O-Ring	101-1700	-1033	-1701	-1034	-1035	-1702	-1703	-1036	-1037	-1038	-1039	-1040	—	
	1/2 NPTF	101-1704	-1025	-1705	-1026	-1027	-1706	-1707	-1028	-1029	-1030	-1031	-1032	—	
	Manifold*	101-1708	-1041	-1709	-1042	-1043	-1710	-1711	-1044	-1045	-1046	-1047	-1048	—	
1 in. SAE 6B Splined	7/8-14 O-Ring	101-1721	-1081	-1722	-1082	-1083	-1723	-1724	-1084	-1085	-1086	-1087	-1088	—	
	1/2 NPTF	101-1725	-1073	-1726	-1074	-1075	-1727	-1728	-1076	-1077	-1078	-1079	-1080	—	
	Manifold*	101-1729	-1089	-1730	-1090	-1091	-1731	-1732	-1092	-1093	-1094	-1095	-1096	—	
1 in. Straight w/ .31 Dia. Crosshole	7/8-14 O-Ring	101-1796	-1797	-1798	-1799	-1800	-1801	-1802	-1803	—	—	—	—	—	
	1/2 NPTF	101-1804	-1805	-1806	-1807	-1808	-1870	-1809	-1810	—	—	—	—	—	
	Manifold*	101-1811	-1812	-1813	-1814	-1815	-1816	-1817	-1818	—	—	—	—	—	
1 in. Straight w/ .40 Dia. Crosshole	7/8-14 O-Ring	101-1819	-1323	-1820	-1324	-1325	-1821	-1822	-1326	—	—	—	—	—	
	1/2 NPTF	101-1823	-1319	-1824	-1320	-1825	-1826	-1827	-1828	—	—	—	—	—	
	Manifold*	101-1829	-1463	-1830	-1831	-1832	-1833	-1834	-1871	—	—	—	—	—	

101-1834

4 Bolt Flange

SHAFT	PORT SIZE	DISPL. cm ³ /r [in ³ /r] / PRODUCT NUMBER													
		36 [2.2]	46 [2.8]	59 [3.6]	74 [4.5]	97 [5.9]	120 [7.3]	146 [8.9]	159 [9.7]	185 [11.3]	231 [14.1]	293 [17.9]	370 [22.6]	740 [45.0]	
1 in. Straight w/ Woodruff key O-Ring	7/8-14 O-Ring	101-1749	-1009	-1750	-1010	-1011	-1751	-1752	-1012	-1013	-1014	-1015	-1016	—	
	1/2 NPTF	101-1753	-1001	-1754	-1002	-1003	-1755	-1756	-1004	-1005	-1006	-1007	-1008	—	
	Manifold*	101-1757	-1017	-1758	-1018	-1019	-1759	-1760	-1020	-1021	-1022	-1023	-1024	—	
1 in. SAE 6B Splined	7/8-14 O-Ring	101-1761	-1057	-1762	-1058	-1059	-1872	-1763	-1060	-1061	-1062	-1063	-1064	—	
	1/2 NPTF	101-1764	-1049	-1765	-1050	-1051	-1766	-1767	-1052	-1053	-1054	-1055	-1056	—	
	Manifold*	101-1768	-1065	-1769	-1066	-1067	-1770	-1771	-1068	-1069	-1070	-1071	-1072	—	
1 in. Straight w/ .31 Dia. Crosshole	7/8-14 O-Ring	101-1835	-1836	-1837	-1838	-1839	-1840	-1841	-1842	—	—	—	—	—	
	1/2 NPTF	101-1843	-1497	-1844	-1449	-1352	-1845	-1846	-1847	—	—	—	—	—	
	Manifold*	101-1848	-1466	-1849	-1459	-1850	-1851	-1852	-1853	—	—	—	—	—	
1 in. Straight w/ .40 Dia. Crosshole	7/8-14 O-Ring	101-1854	-1311	-1855	-1856	-1857	-1858	-1859	-1860	—	—	—	—	—	
	1/2 NPTF	101-1861	-1313	-1862	-1312	-1314	-1863	-1864	-1315	—	—	—	—	—	
	Manifold*	101-1865	-1305	-1866	-1306	-1307	-1867	-1868	-1869	—	—	—	—	—	

101-1868

4 Bolt Flange with Corrosion Protection

SHAFT	PORT SIZE	DISPL. cm ³ /r [in ³ /r] / PRODUCT NUMBER													
		36 [2.2]	46 [2.8]	59 [3.6]	74 [4.5]	97 [5.9]	120 [7.3]	146 [8.9]	159 [9.7]	185 [11.3]	231 [14.1]	293 [17.9]	370 [22.6]	740 [45.0]	
1 in. Straight w/ Woodruff Key	1/2 NPTF	101-2032	-2014	-2093	-2027	-2013	-2094	-2095	-2015	-2028	-2029	-2030	-2031	—	
	Manifold*		-2067							-2068	-2069				

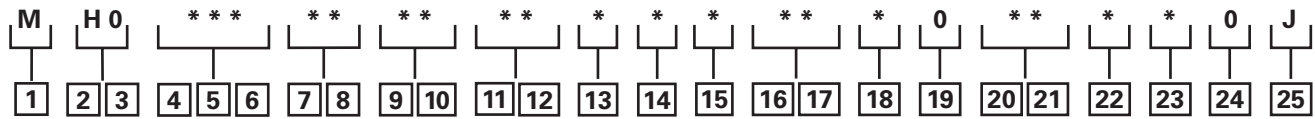
*Manifold product numbers shown are for
motors with four 5/16-18 port face mounting
threads. Manifold, manifold mounting
O-Rings and bolts are NOT included.

For H Series Motors with a
configuration Not Shown in
the charts above: Use the
model code system on page
B-2-11 to specify the product
in detail.

The following 25-digit coding system has been developed to provide a wide range of options for the H motor. Use this model code to specify a motor with the desired features. All 25-digits of the code must be present when ordering. You may want to photocopy the matrix below to ensure that each number is entered in the correct box.

H Series (101-)

Model Code



1 Product

M - Motor

2, 3 Series

H0 - H Motor

4, 5, 6 Displacement cm³/r [in³/r]

022 - 36 [2.2]†

028 - 46 [2.8]

035 - 58 [3.5]†

045 - 74 [4.5]

059 - 96 [5.9]

073 - 120 [7.3]

089 - 146 [8.9]

097 - 159 [9.7]

113 - 185 [11.3]

141 - 231 [14.1]

179 - 294 [17.9]

226 - 370 [22.6]

451 - 739 [45.1]

†The H Series motors with displacement code "022" or "035" must also specify free running gerotor (option "AA" in position 11,12).

7, 8 Mounting Type

AA - 2 Bolt (Standard)
82.50 [3.248] Dia. x 3.05 [.120] Pilot, 13.59 [.535] Dia. Mounting Holes on 106.35 [4.187] Dia. B.C.

BA - 4 Bolt (Standard)
44.40 [1.748] Dia. x 3.05 [.120] Pilot, .375-16 UNC-2B Mounting Holes on 82.55 [3.250] Dia. B.C.

CA - 2 Bolt (Standard)
82.50 [3.248] Dia. x 6.10 [.240] Pilot, 10.41 [.410] Dia. Mounting Holes on 106.35 [4.187] Dia. B.C. (SAE A)

DD - 2 Bolt (Standard)
101.60 [4.000] Dia. x 6.10 [.240] Pilot, 14.35 [.565] Dia. Mounting Holes on 146.05 [5.750] Dia. B.C. (SAE B)

FA - 4 Bolt (Standard)
44.40 [1.748] Dia. x 3.05 [.120] Pilot, M10 x 1.5-6H Mounting Holes on 82.55 [3.250] Dia. B.C.

GA - 4 Bolt (Round) 82.50 [3.248] Dia. x 6.35 [.250] Pilot, 19.05 [.750] Dia. Mounting Holes on 109.48 [4.310] Dia. B.C.

MA - 2 Bolt (Standard)
82.50 [3.248] Dia. x 8.13 [.320] Pilot, 13.59 [.535] Dia. Mounting Holes on 106.35 [4.187] Dia. B.C., w/o O-ring Groove

9, 10 Output Shaft

01 - 25.4 [1.00] Dia. Straight, Woodruff Key, .250-20 UNC-2B Hole in Shaft End

02 - 25.4 [1.00] Dia. SAE 6B Spline, .250-20 UNC-2B Hole in Shaft End

07 - 25.4 [1.00] Dia. Straight, 8.03 [.316] Dia. Cross Hole 11.2 [.44] from End, 5.6 [.22] Extra Length

08 - 25.4 [1.00] Dia. Straight, 10.31 [.406] Dia. Cross Hole 15.7 [.62] from End, .250-20 UNC-2B Hole in Shaft End

16 - 22.22 [.875] Dia. SAE 13 Tooth Spline (SAE B)

17 - 22.22 [.875] Dia. Straight, 6.4 [.25] x 19.0 [.75] Square Key (SAE B)

18 - 25.4 [1.00] Dia. Tapered, Woodruff Key and Nut, 34.92 [1.375] Taper Length

24 - 25.00 [.984] Dia. Straight, 8.00 [.315] KEY, M8 x 1.25-6H Hole in Shaft End

39 - 25.00 [.984] Dia. Straight (k6), 8.00 [.315] Key, M8 x 1.25-6H Hole in Shaft End

11, 12 Ports

AA - .875-14 UNF-2B SAE O-Ring Ports

AB - .500-14 NPTF Dry Seal Pipe Thread Ports

AC - Manifold Ports (.3125-18 UNC-2B Mounting Holes)

AD - Manifold Ports (M8 x 1.25-6H Mounting Holes)

AF - G 1/2 BSP Straight Thread Ports

EB†† - End Ports: .750-16 UNF-2B SAE O-Ring Ports

EC†† - End Ports: G 1/2 BSP Straight Thread Ports

†† Note: End ported motor pressure is derated. Reference page B-2-2 for ratings.

13 Case Flow Options

0 - None

1 - .4375-20 UNF-2B SAE O-Ring Port (End Cap)

2 - G 1/4 BSP Straight THD Port (End Cap)

A - Internal Check Valves

14 Gerotor Options

0 - None

A - Free Running

15 Shaft Options

0 - None

N - Electroless Nickel Plated

16, 17 Seal Options

00 - Standard Seals

02 - Seal Guard

03 - Viton Seals

04 - Viton Shaft Seal

05 - Vented Two-Stage Seal

07 - High Pressure Shaft Seal

18 Speed Sensor Options

0 - None

A - Digital Speed Pickup

(15 Pulse), No Lead Wire with M12 Connector (A=Power, B=Common, C=Signal)

B - Magnetic Speed Pickup (60 Pulse by Quadrature), No Lead Wire with M12 Connector (A=Power, B=Common, C=Signal)

19 Manifold Block Options

0 - None

* - Contact your Eaton Sales Representative for available options.

20, 21 Special Features (Hardware)

00 - None

AB - Low Speed Valving

SS - Stainless Steel Flange Bolts

22 Special Features (Assembly)

0 - None

1 - Reverse Rotation

2 - Flange Rotated 90°

23 Paint/ Special Packaging

0 - No Paint

A - Low Gloss Black Primer

D - Environmental Coated Gloss White

F - Environmental Coated Black

24 Eaton Assigned Code when Applicable

0 - Assigned Code

25 Eaton Assigned Design Code

J - Nine (9)

Feature in **bold** are preferred and allow for shorter lead time.