B-1

Description:

Char-Lynn J Series motors provide a lot of power from a very small package. Up to 5 kW [6 1/2 HP] of power. These motors are 61 mm [2.4 in] in diameter and 104 to 130 mm [4.1 to 5.1 in] in length. The J Series motor shaft and seal allows high case pressure up to 76 bar [1100 PSI] return line pressure without case drain line. When a case drain line is used a 220 bar [3190 PSI] peak pressure is allowed in the return line.



Specifications

Geroler Element	5 Displacements
Flow l/min [GPM]	21 [5.5] Continuous***
	25 [6.5] Intermittent**
Speed	Up to 1992 RPM Cont.
	Up to 2458 RPM Inter.
Pressure bar [PSI]	140 [2030] Cont.***
	165 [2400] Inter.**
Torque Nm [lb-in]	62 [549] Cont.***
	84 [743] Inter.**

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

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

Features:

- Constant clearance Geroler set
- Integrated check valves
- Self-lubricating shaft bushing
- High-strength rigid components
- Increased valve seal lands
- High pressure seals
- Variety of displacements, shafts, mounts and special options

Benefits:

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

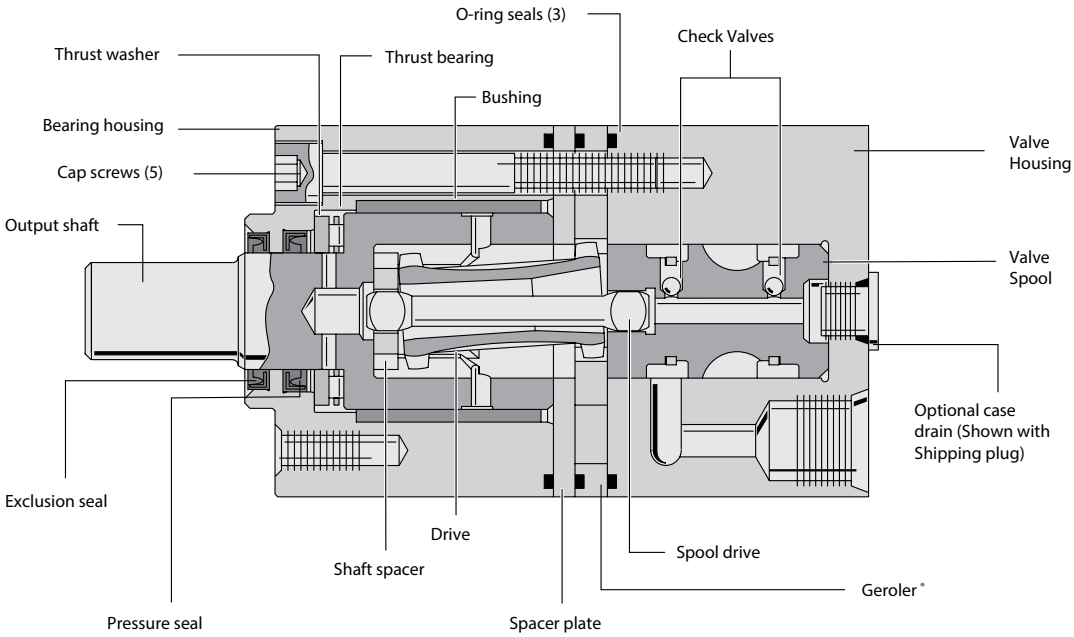
Applications:

- Agricultural augers, harvesters, seeders
- Car wash tire spray wands and brushes
- Marine bow thrusters
- Food processing
- Railroad maintenance equipment
- Machine tools
- Conveyors
- Snow blower chute rotator
- Industrial sweepers and floor polishers
- Saw mill works
- Turf equipment reel drives
- Paint stripper

J Series (129-)

Specifications

B-1



Specification data — J motors

Displ. cm³/r [in³/r]		8.2 [.50]	12.9 [.79]	19.8 [1.21]	31.6 [1.93]	50.0 [3.00]
Max. Speed (RPM) @continuous flow		1992	1575	1043	650	393
Flow l/min [GPM]	Continuous	17 [4.5]	21 [5.5]	21 [5.5]	21 [5.5]	21 [5.5]
	Intermittent	21 [5.5]	25 [6.5]	25 [6.5]	25 [6.5]	25 [6.5]
Torque Nm [lb-in]	Continuous	16 [141]	25 [225]	38 [333]	50 [446]	62 [549]
	Intermittent	19 [164]	30 [263]	46 [405]	62 [546]	84 [743]
	Peak	22 [193]	36 [321]	48 [425]	83 [733]	86 [765]
Pressure Δ bar [Δ PSI]	Continuous	140 [2030]	140 [2030]	140 [2030]	121 [1750]	97 [1400]
	Intermittent	165 [2400]	165 [2400]	165 [2400]	150 [2175]	140 [2030]
	Peak	220 [3190]	220 [3190]	220 [3190]	190 [2756]	150 [2175]
Weight kg [lbs]		2 [4.4]	2.1 [4.6]	2.2 [4.8]	2.3 [5.0]	2.4 [5.4]

Maximum case pressure: See case pressure seal limitation graph.

A simultaneous maximum torque and maximum speed NOT recommended.

Note: To assure best motor life, run motor in low speed high torque mode at approximately 30% of continuous pressure and 50% of continuous flow for 30 minutes in each direction before application of full load. Ensure that motor is filled with fluid prior to operation.

Maximum Inlet Pressure
* Maximum pressure at motor inlet port is 220 Bar [3190 PSI] without regard to Δ bar [Δ PSI] and/ or back pressure ratings or combination thereof.

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

See individual shafts for maximum torque recommendation. Splined shafts are recommended for those applications subject to frequent reversals.

Continuous rating:
Motor may be run continuously at these ratings

Intermittent operation:
10% of every minute

*See shaft torque ratings for limitations.

Peak operation:
1% of every minute

Recommended fluids:
Premium quality, anti-wear type hydraulic oil with a viscosity of not less than 13 cSt [70 SUS] at operating temperature.

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

Thermal shock warning:

Do not operate the motor with fluid that is 70F or more above the motor temperature.

Minimum delta pressure warning:

Motors must not run with equal inlet and outlet pressure 50 PSID minimum delta pressure between motor ports is required at all times (expect when switching direction of rotation)

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 25 cSt [120 SUS]. Actual data may vary slightly from unit to unit in production

Continuous

Intermittent

8.2 cm ³/r [.50 in ³/r]

Δ Pressure bar [PSI]

Flow LPM [GPM]	[200]	[400]	[500]	[600]	[700]	[800]	[1000]	[1400]	[1500]	[2000]	[2030] Max. Continuous	[2400] Max. Intermittent
	14	28	34	41	48	55	69	97	103	138	140	166
[1]	[11]	[25]	[33]	[40]	[47]	[55]	[69]	[96]	[102]	[130]	[132]	[146]
	1	3	4	5	5	6	8	11	12	15	15	16
4	456	444	437	429	422	412	394	347	332	250	239	170
[2]	[9]	[24]	[31]	[38]	[46]	[53]	[68]	[97]	[105]	[139]	[141]	[163]
	1	3	4	4	5	6	8	11	12	16	16	18
8	897	886	877	867	860	847	823	768	749	657	647	557
[3]	[6]	[20]	[28]	[35]	[44]	[51]	[65]	[94]	[102]	[137]	[139]	[164]
	1	2	3	4	5	6	7	11	12	15	16	19
11	1349	1331	1318	1309	1296	1285	1261	1198	1176	1070	1060	959
[4.25]		[16]	[23]	[30]	[36]	[44]	[60]	[90]	[97]	[133]	[135]	[160]
		2	3	3	4	5	7	10	11	15	15	18
16		1902	1885	1873	1858	1846	1817	1750	1721	1599	1585	1475
[4.5] Max. Continuous		[16]	[23]	[29]	[36]	[43]	[59]	[89]	[96]	[131]	[134]	[160]
		2	3	3	4	5	7	10	11	15	15	18
17		1992	1979	1964	1947	1929	1900	1833	1808	1684	1673	1553
[5.5] Max. Intermittent		[12]	[18]	[26]	[33]	[40]	[54]	[83]	[92]	[124]	[129]	[154]
		1	2	3	4	5	6	9	10	14	15	17
21		2458	2437	2420	2405	2387	2353	2272	2255	2134	2115	1994

12.9 cm ³/r [0.79 in ³/r]

Δ Pressure bar [PSI]

Flow LPM [GPM]	[200]	[400]	[500]	[600]	[700]	[800]	[1000]	[1400]	[1450]	[1500]	[2000]	2030 Max. Continuous	[2400] Max. Intermittent
	14	28	34	41	48	55	69	97	100	103	138	140	166
[1]	[19]	[43]	[54]	[65]	[76]	[88]	[109]	[154]	[159]	[164]	[214]	[217]	[250]
	2	5	6	7	9	10	12	17	18	19	24	25	28
4	290	285	281	277	273	268	260	237	234	230	194	189	151
[2]	[16]	[39]	[51]	[63]	[74]	[86]	[109]	[155]	[160]	[165]	[221]	[225]	[263]
	2	4	6	7	8	10	12	18	18	19	25	25	30
8	573	566	561	555	549	544	534	501	496	490	442	437	396
[3]	[11]	[35]	[47]	[58]	[70]	[82]	[105]	[152]	[157]	[163]	[219]	[223]	[263]
	1	4	5	7	8	9	12	17	18	18	25	25	30
11	859	849	843	838	832	825	810	777	771	763	708	701	652
[4]	[6]	[30]	[41]	[53]	[64]	[76]	[99]	[146]	[152]	[157]	[214]	[217]	[260]
	1	3	5	6	7	9	11	16	17	18	24	25	29
15	1153	1140	1135	1129	1124	1117	1101	1060	1051	1044	982	975	924
[5.5]		[19]	[30]	[42]	[54]	[65]	[89]	[136]	[142]	[148]	[205]	[209]	[251]
		2	3	5	6	7	10	15	16	17	23	24	28
21		1575	1566	1556	1547	1539	1521	1473	1466	1457	1396	1387	1330
[6.5]		[11]	[23]	[35]	[46]	[56]	[81]	[130]	[135]	[140]	[198]	[202]	[243]
		1	3	4	5	6	9	15	15	16	22	23	27
25		1859	1841	1842	1831	1820	1804	1755	1743	1734	1670	1663	1599

Max. Continuous

Max. Intermittent

[42] Torque [lb-in]
5 Nm
1556 Speed RPM

J Series (129-)

Performance data

B-1

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.

Continuous

Intermittent

Performance data is typical at 25 cSt [120 SUS]. Actual data may vary slightly from unit to unit in production

19.8 cm ³/r [1.21 in ³/r]

Δ Pressure bar [PSI]

Flow LPM [GPM]	[200]	[400]	[500]	[600]	[700]	[800]	[1000]	[1400]	[1450]	[1500]	[2000]	[2030] Max. Continuous	[2400] Max. Intermittent
	14	28	34	41	48	55	69	97	100	103	138	140	166
[1]	[32]	[67]	[85]	[102]	[119]	[136]	[170]	[236]	[244]	[253]	[321]	[325]	[374]
	4	8	10	12	13	15	19	27	28	29	36	37	42
4	189	187	186	185	183	182	179	172	170	169	141	138	114
[2]	[30]	[65]	[83]	[101]	[119]	[136]	[172]	[223]	[248]	[257]	[328]	[333]	[388]
	3	7	9	11	13	15	19	25	28	29	37	38	44
8	379	375	373	370	368	366	361	351	349	347	312	309	285
[3]	[21]	[57]	[75]	[93]	[111]	[128]	[163]	[231]	[240]	[248]	[325]	[330]	[405]
	2	6	8	11	13	14	18	26	27	28	37	37	46
11	569	565	563	560	558	556	551	529	526	523	487	484	459
[4]	[12]	[47]	[65]	[83]	[101]	[119]	[154]	[221]	[230]	[239]	[316]	[320]	[382]
	1	5	7	9	11	13	17	25	26	27	36	36	43
15	761	758	754	751	749	746	741	717	711	707	660	656	628
[5.5] Max. Continuous		[31]	[49]	[67]	[84]	[101]	[137]	[202]	[211]	[218]	[295]	[299]	[365]
		4	6	8	9	11	15	23	24	25	33	34	41
21		1043	1040	1035	1033	1028	1021	997	993	990	938	934	899
[6.5] Max. Intermittent		[21]	[38]	[56]	[74]	[91]	[126]	[189]	[196]	[206]	[278]	[283]	[347]
		2	4	6	8	10	14	21	22	23	31	32	39
25		1226	1222	1219	1215	1211	1204	1179	1174	1169	1121	1117	1079

31.6 cm ³/r [1.93 in ³/r]

Δ Pressure bar [PSI]

Flow LPM [GPM]	[200]	[400]	[500]	[600]	[700]	[800]	[1000]	[1450]	[1450]	[1500]	[1750] Max. Continuous	[2175] Max. Intermittent
	14	28	34	41	48	55	69	97	100	103	121	150
[1]	[51]	[106]	[133]	[160]	[187]	[213]	[265]	[362]	[372]	[383]	[439]	
	6	12	15	18	21	24	30	41	42	43	50	
4	118	116	115	113	112	111	107	91	85	81	70	
[2]	[46]	[103]	[132]	[159]	[187]	[214]	[269]	[362]	[374]	[387]	[446]	[546]
	5	12	15	18	21	24	30	41	42	44	50	62
8	236	234	232	230	228	225	221	187	179	175	165	145
[3]	[36]	[94]	[122]	[149]	[177]	[205]	[259]	[351]	[364]	[377]	[440]	[542]
	4	11	14	17	20	23	29	40	41	43	50	61
11	355	352	349	347	345	342	336	296	292	287	273	245
[4]	[24]	[79]	[107]	[135]	[162]	[190]	[246]	[337]	[349]	[362]	[425]	[528]
	3	9	12	15	18	21	28	38	39	41	48	60
15	474	472	469	466	462	460	452	404	397	393	373	346
[5.5] Max. Continuous		[55]	[83]	[111]	[139]	[167]	[221]	[307]	[320]	[334]	[400]	[505]
		6	9	13	16	19	25	35	36	38	45	57
21		650	647	645	640	636	629	584	580	575	550	513
[6.5] Max. Intermittent		[35]	[64]	[93]	[121]	[150]	[204]	[279]	[294]	[308]	[378]	[485]
		4	7	11	14	17	23	32	33	35	43	55
25		767	764	760	755	751	742	712	707	701	675	637

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 25 cSt [120 SUS]. Actual data may vary slightly from unit to unit in production

Continuous

Intermittent

50.0 cm³/r [3.00 in³/r]

Δ Pressure bar [PSI]

Flow LPM [GPM]

	[200]	[400]	[500]	[600]	[700]	[800]	[1000]	[1100]	[1200]	[1300]	[1400]	[2030]
	14	28	34	41	48	55	69	76	83	90	97	140
[1]	[82]	[167]	[211]									
	9	19	24									
4	75	72	72									
[2]	[70]	[156]	[201]	[243]	[286]	[327]						
	8	18	23	28	32	37						
8	149	147	145	144	143	142						
[3]	[53]	[140]	[184]	[227]	[271]	[311]	[396]	[441]	[484]	[521]	[549]	
	6	16	21	26	31	35	45	50	55	59	62	
11	221	220	218	217	215	213	209	205	201	200	191	
[4]	[30]	[120]	[162]	[204]	[250]	[292]	[374]	[419]	[460]	[501]	[541]	[743]
	3	14	18	23	28	33	42	47	52	57	61	84
15	296	292	289	286	284	282	273	270	265	263	259	213
[5.5]		[81]	[127]	[170]	[214]	[254]	[339]	[379]	[422]	[463]	[506]	[702]
		9	14	19	24	29	38	43	48	52	57	79
21		393	392	389	387	383	377	372	369	364	358	302
[6.5]		[47]	[90]	[133]	[176]	[219]	[307]	[345]	[385]	[429]	[467]	[685]
		5	10	15	20	25	35	39	43	48	53	77
25		465	462	460	458	455	448	445	440	435	430	364

Max. Continuous

Max. Intermittent

[81] Torque [lb-in]
9 Nm
393 Speed RPM

J Series (129-)

Dimensions

B-1

Ports

Code: A 9/16-18 UNF-2B SAE O-ring ports, End ported

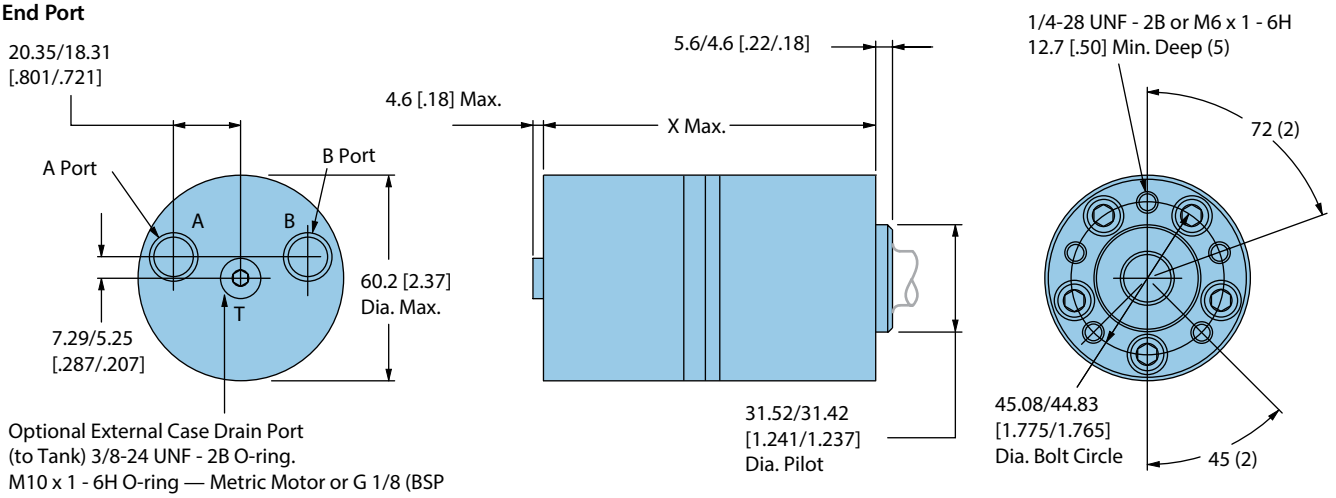
Code: C M14 x 1.5-6H O-ring, End ported

Standard rotation viewed from shaft end

Port A Pressurized — CW

Port B Pressurized — CCW

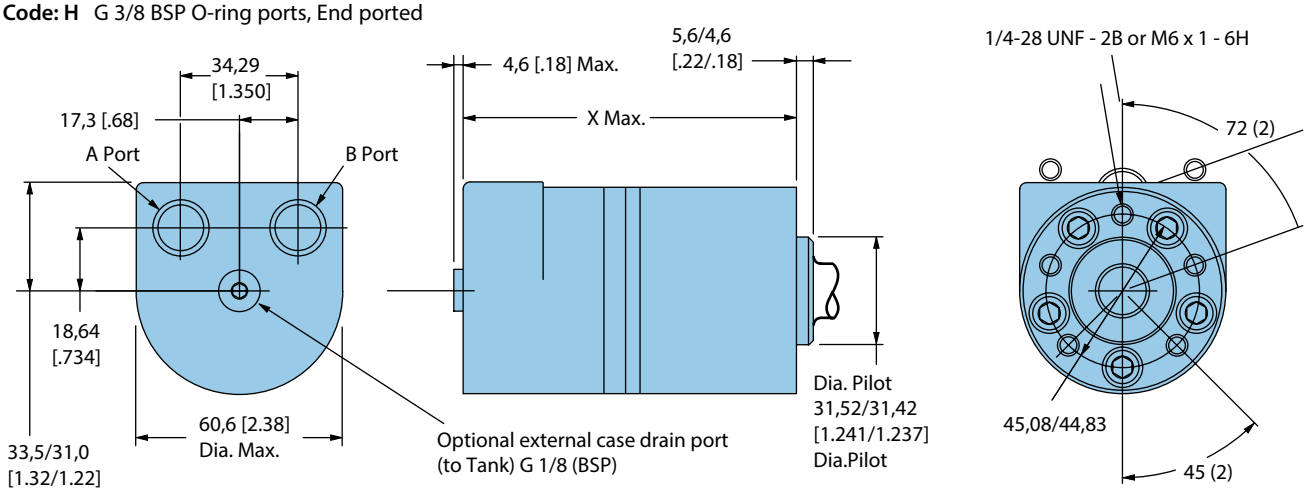
End Port



End port dimensions

Displacement cm³/r [in³/r]	X mm [inch]
8.2 [.50]	103.9 [4.09]
12.9 [.79]	106.9 [4.21]
19.8 [1.21]	112.5 [4.38]
31.6 [1.93]	118.9 [4.68]
50.0 [3.00]	130.3 [5.13]

Code: H G 3/8 BSP O-ring ports, End ported



End port dimensions

Displacement cm³/r [in³/r]	X mm [inch]
8.2 [.50]	103.9 [4.09]
12.9 [.79]	106.9 [4.21]
19.8 [1.21]	112.5 [4.38]
31.6 [1.93]	118.9 [4.68]
50.0 [3.00]	130.0 [5.12]
160.5 [6.32]	132.3 [5.21]

B-1

Ports

Code: D 9/16-18 UNF-2B SAE O-ring ports, Side ported

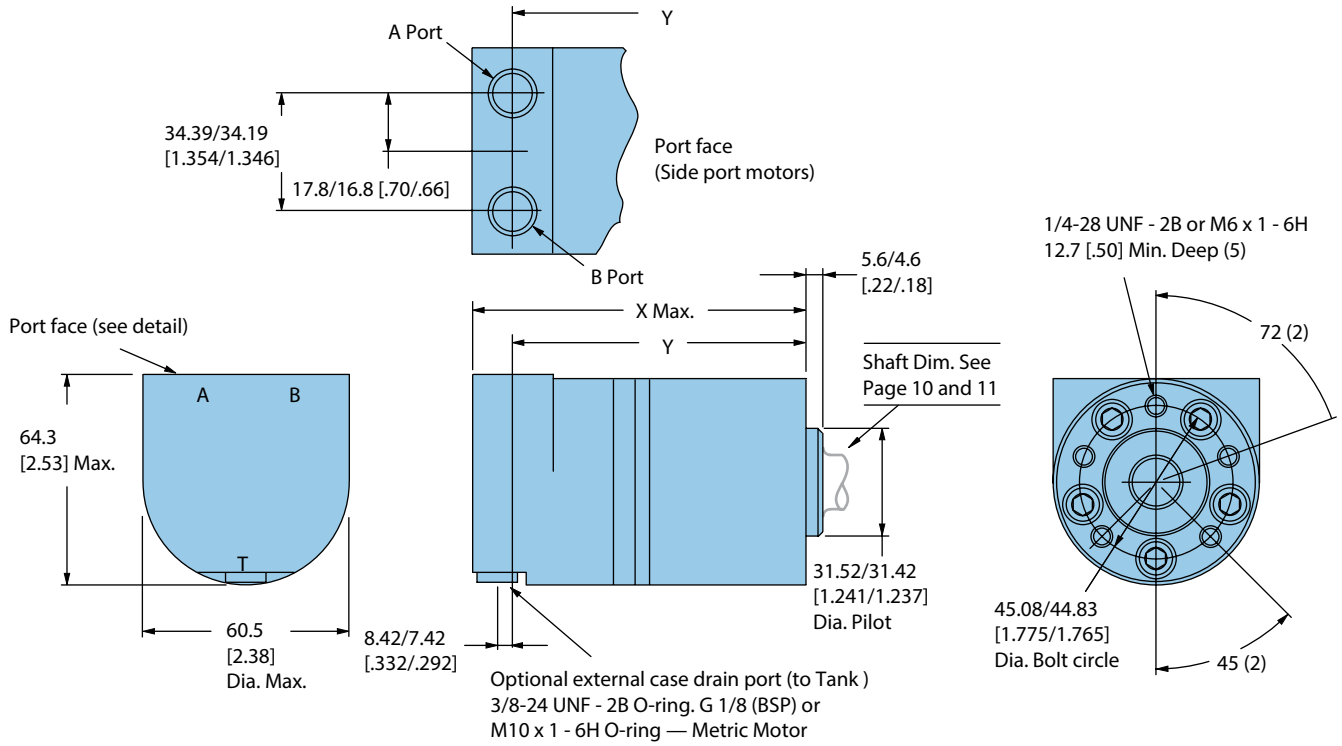
Code: E G 3/8 BSP O-ring ports, Side ported

Stand ard rotation viewed from shaftend

Port A Pressurized — CW

Port B Pressurized — CCW

Side port



Side port motors

Displacement cm³/r [in³/r]	X mm [inch]	Y mm [inch]
8.2 [.50]	103.9 [4.09]	89.4/ 87.4 [3.52/3.44]
12.9 [.79]	106.9 [4.21]	92.5/ 90.4 [3.64/3.56]
19.8 [1.21]	112.5 [4.38]	96.8/ 94.7 [3.81/3.73]
31.6 [1.93]	118.9 [4.68]	104.4/102.4 [4.11/4.03]
50.0 [3.00]	130.0 [5.12]	115.7/113.9 [4.56/4.48]

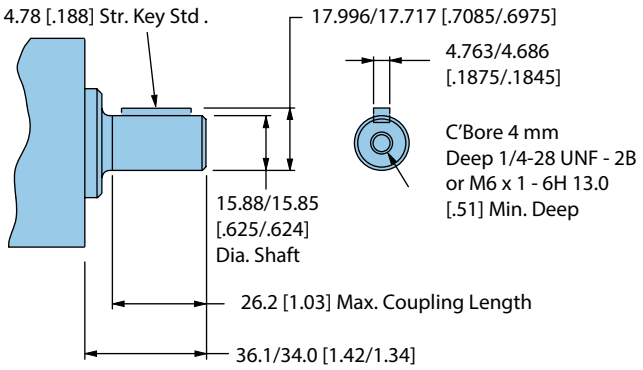
J Series (129-)

Dimensions

Shafts

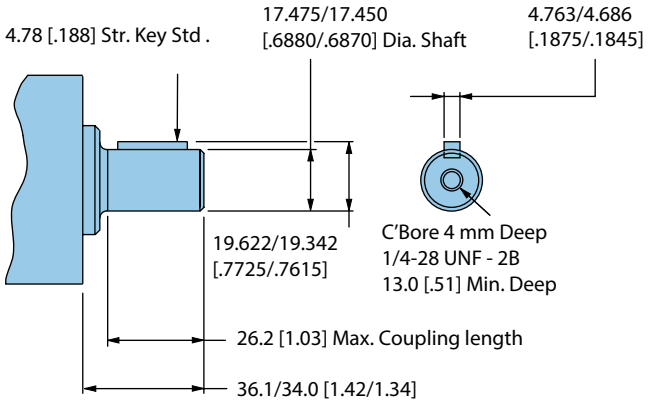
B-1

5/8 inch straight keyed



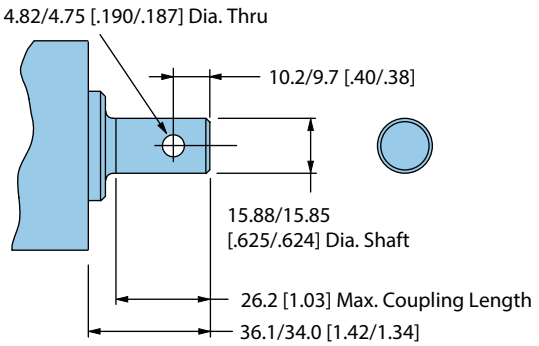
Max. Torque continuous Duty 39 Nm [350 lb-in]

11/16 inch straight keyed



Max. Torque continuous Duty 52 Nm [465 lb-in]

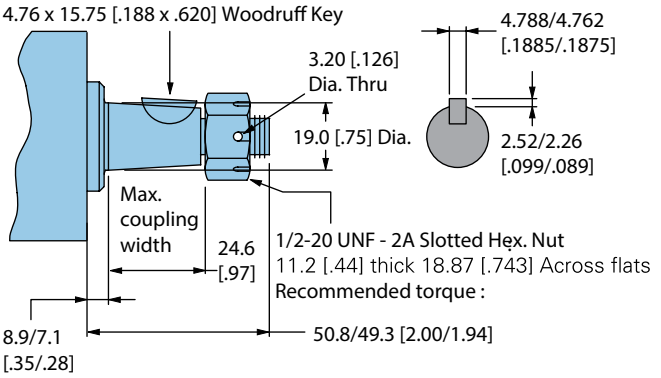
5/8 Inch straight keyed w/crosshole



Max. Torque Continuous
Duty 39 Nm [350 lb-in]

3/4 inch tapered

(Tapered shaft end per SAE J744 except as specified - 1.5 : 12 Ratio)

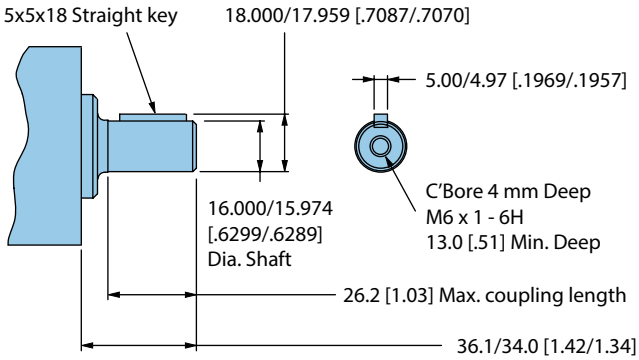


Max. Torque continuous
Duty 68 Nm [600 lb-in]

B-1

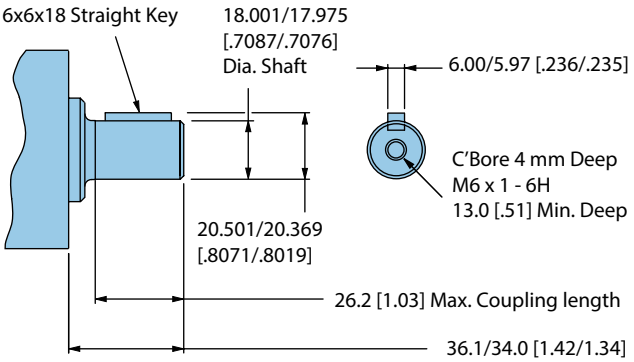
Shafts and flange kit

16 mm Straight keyed



Max. Torque continuous duty 39 Nm [350 lb-in]

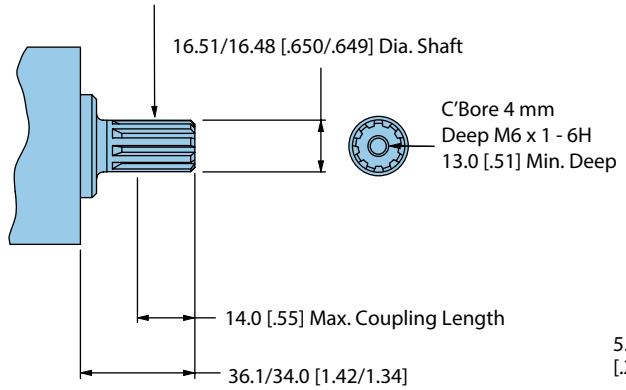
18 mm Straight keyed



Max. Torque continuous duty 58 Nm [510 lb-in]

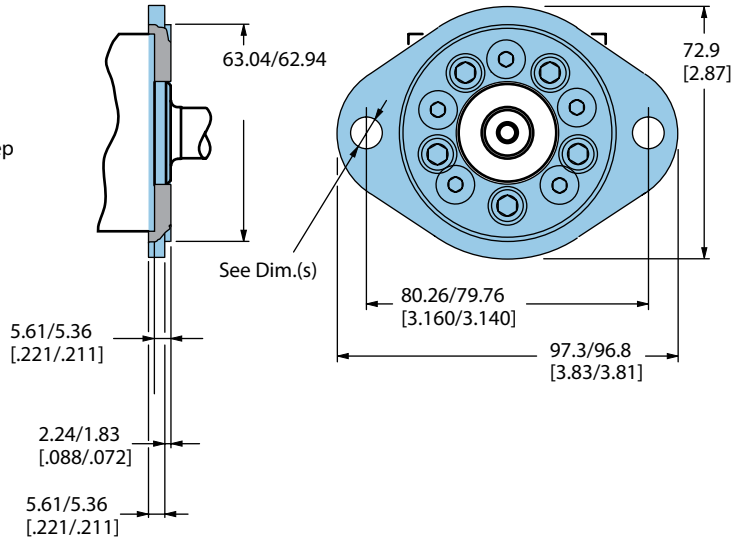
Involute 9T splined — metric

Involute splined shaft external B17x14 DIN 5482



Max. Torque Continuous Duty 44 Nm [390 lb-in]

2 Bolt flange kits (2)



Note: Kit 60552 for 3/8 Dia. Mounting Bolts (10.49/10.24 [.413/.403] Dia. Thru) 1/4-28 UNF screws for attaching flange to motor (5)
Kit 60553 for M8 Dia. Mounting Bolts (9.12/8.86 [.359/.349] Dia. Thru) M6 x 1 -6H screws for attaching flange to motor (5)

J Series (129-)

Product numbers

B-1

Use digit prefix —

129- plus four digit number from charts for complete product number— Example 129-0479. Orders will not be accepted without three digit prefix.

Orders will not be accepted without three digit prefix.

End port

Mounting	Shaft	Port size	Displ. cm ³/r [in ³/r] / Product Number				
			8.2 [.50]	**12.9 [.79]**	**19.8 [1.21]**	**31.6 [1.93]**	**50.0 [3.00]**
1/4-28 UNF 2B	5/8 inch Straight		129-0291	-0292	-0293	-0294	-0458
	11/16 inch Straight	9/16 -18 UNF	129-0295	-0296	-0297	-0298	-0459
	Splined — Metric	2B O-Ring (2)	129-0009	-0010	–	-0302	-0460
	3/4 inch Tapered		–				
M6 x 1 - 6H	16 mm Straight	M14 x 1,5 -	129-0041	-0042	-0043	-0044	–
	18 mm Straight	6H O-Ring (2)	129-0045	-0046	-0047	-0048	–
	Splined — Metric		129-0045	-0050	-0313	-0052	–
	16 mm Straight		129-0315	-0316	-0317	-0318	-0464
	18 mm Straight	G 1/4 (BSP) (2)	129-0137	-0320	-0321	-0322	–
	Splined — Metric		129-0323	-0324	-0325	-0326	–
	16 mm Straight		129-0327	-0328	-0329	-0330	-0467
	18 mm Straight	G 3/8 (BSP) (2)*	129-0331	–	-0159 or -0649	-0160	–
	Splined — Metric		129-0141	-0336	-0143	–	-0469

Note: *The same casting used for side ports is required for G 3/8 (BSP) end ports

129-0336

Side port

Mounting	Shaft	Port size	Displ. cm ³/r [in ³/r] / Product Number				
			8.2 [.50]	**12.9 [.79]**	**19.8 [1.21]**	**31.6 [1.93]**	**50.0 [3.00]**
1/4-28 UNF 2B	5/8 inch Straight		129-0339	-0340	-0341	-0342	-0470
	11/16 inch Straight	9/16 -18 UNF	129-0343	-0344	-0345	-0346	-0471
	Splined — Metric	2B O-Ring (2)	129-0347	-0348	-0031	-0350	-0472
	3/4 inch Tapered		129-0481				
M6 x 1 - 6H	16 mm Straight	M14 x 1,5 -	129-0053	-0054	-0055	-0056	-0650
	18 mm Straight	6H O-Ring (2)	–	-0058	-0059	-0060	–
	Splined — Metric		–	–	-0063	–	–
	16 mm Straight		129-0363	-0364	-0365	-0366	–
	18 mm Straight	G 1/4 (BSP) (2)					
	Splined — Metric		–	–	–	-0370	-0477
	16 mm Straight		129-0371	-0372	-0373	-0374	-0403
	18 mm Straight	G 3/8 (BSP) (2)	129-0375	-0376	-0377	-0378	-0478
	Splined — Metric		129-0379	-0034	-0381	-0036	-0479

Two bolt mounting flange kit (for 3/8 inch mounting bolts) — kit number 60552 (includes 5 screws — 1/4 -28 UNF-2B)

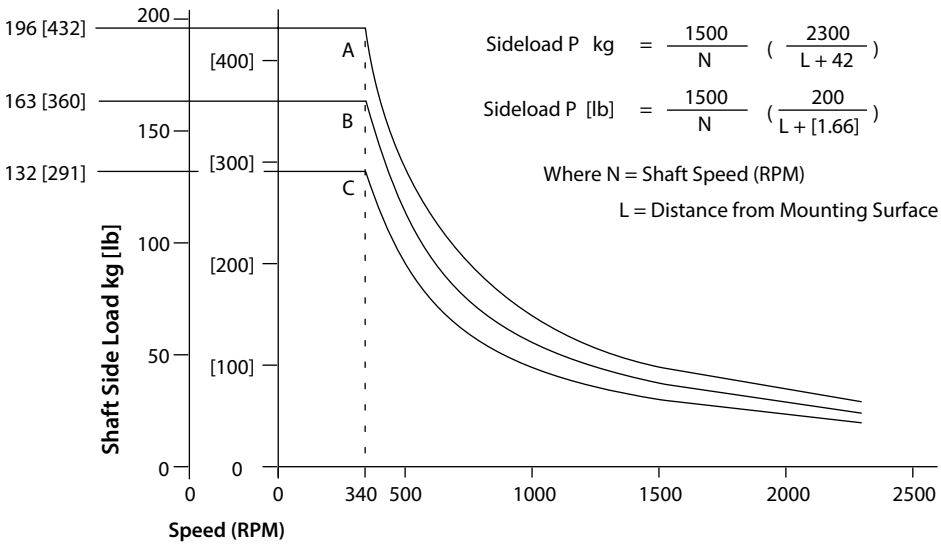
Two bolt mounting flange kit (for M8 mounting bolts) — kit number 60553 (includes 5 screws — M6 x 1-6H)

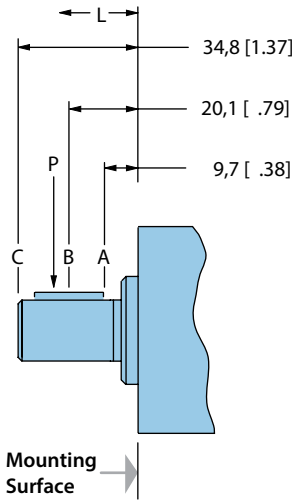
The hydrodynamic bearing has infinite life when shaft load ratings are not exceeded. Hence, the shaft side load capacity is more than adequate to handle most externally applied loads (such as belts, chains, etc.), providing the motor to shaft size is applied within its torque rating.

Allowable side load chart, shaft load location drawing (right) and load curves (below) are based on the side or radial loads being applied to shaft at locations A, B, and C, to determine the shaft side load capacity at locations other than those shown use the formula (shown below). For more information about shaft side loads on Char-Lynn motors contact your Danfoss representative.

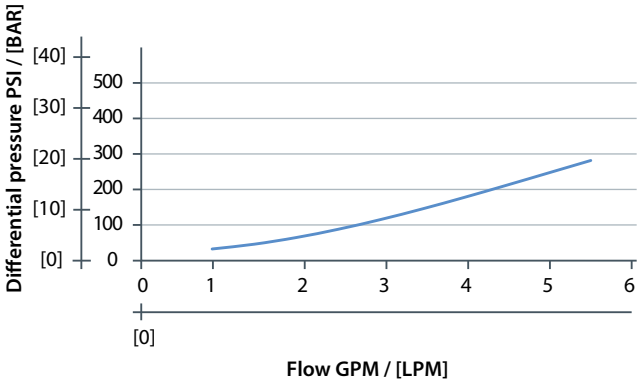
Allowable side load — kg [lb]

RPM	A	B	C
2300	29 [64]	24 [53]	20 [43]
1500	44 [98]	37 [82]	30 [66]
1250	54 [118]	44 [98]	36 [79]
1000	67 [147]	55 [122]	45 [99]
750	89 [196]	74 [163]	60 [132]
600	111 [245]	93 [204]	75 [165]
500	133 [294]	111 [245]	90 [198]
400	167 [368]	139 [306]	112 [248]
340	196 [432]	163 [360]	132 [291]





J Series NLPD - no load pressure drop



J Series (129-)

Case pressure and case drain

B-1

The J Series offers check valves in the motor as a standard feature. This addition reduces the case pressure in the motor to the return pressure of the system when the case drain is not used. For return pressures higher than the rated pressures (see chart) the external case drain can be connected. If the case drain line is needed, connect drain line to assure that the motor will always remain full of fluid.

Case drain advantage

In addition to providing lower case pressures for motors connected in series, there are advantages for adding an external case drain line to motors with normal case pressures as well. These advantages are:

Contamination Control — flushing the motor case.

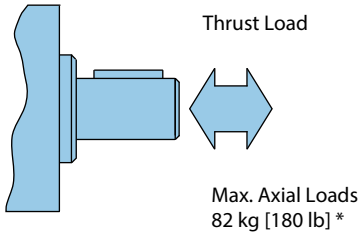
Motor Cooler — exiting oil draws motor heat away.

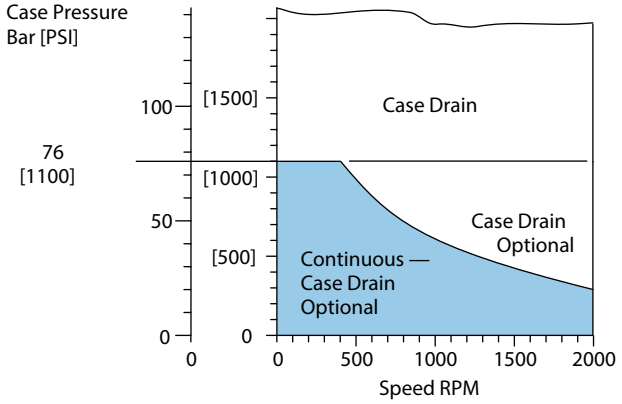
Extend Motor Seal Life — maintain low case pressure with a preset restriction installed in the case drain line

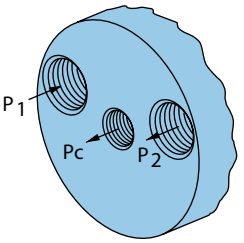
Example: A 14 Bar case pressure will cause a load of 40 kg, so the allowable thrust load will be 82 kg plus 40 = 120 kg kg pushing inward on shaft. Tension load is 82 kg under all case pressure conditions.

Example: A 200 PSI case pressure will cause a load of 88 lbs, so the allowable thrust load will be 180 lbs plus 88 = 268 lbs pushing inward on shaft. Tension load is 180 lb under all case pressure conditions

Note: J Series motors can be connected in parallel or in series. Case pressure will add to the allowable compressive thrust load. Case pressure will push outward on the shaft at 20 kg/7 Bar [44 lb/100 PSI].



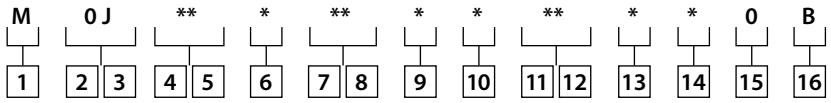




Case Pressure Seal Limitation

B-1

The following 16-digit coding system has been developed to identify all of the configuration options for the J motor. Use this model code to specify a motor with the desired features. All 16-digits of the code must be present when ordering.



1 Product

M Motor

2 3 Series

0J J Series

4 5 Displacement cm ³/r [in ³/r]

05 8.2 [.50]
08 12.9 [.79]
12 19.8 [1.21]
19 31.6 [1.93]
30 50.0 [3.00]

6 Mounting type

A 5 Bolt: Dia. 31,47 [1.239] x 5,1 [.20] Pilot 1/4-28 UNF 2B Mounting Holes on 45 [1.77] Dia. Bolt Circle
B 5 Bolt: Dia. 31,47 [1.239] x 5,1 [.20] Pilot M6 x 1- 6H Mounting Holes on 45 [1.77] Dia. Bolt Circle
C 2 Bolt: Dia. 62,99 [2.480] x 2,0 [.08] Pilot 10,36[.408] Mounting Holes on 80,0 [3.150] Dia. Bolt Circle

7 8 Output shaft

01 5/8 inch Dia. straight with 4,72 [.186] square key and 1/4-28 UNF - 2B threaded hole
02 16 mm Dia. Straight with 5,00 [.197] square key with M6 x 1 - 6H threaded hole
04 11/16 inch Dia. straight with 4,72 [.186] square key and 1/4-28 UNF - 2B threaded hole
05 18 mm Dia. straight with 5,92 [.233] square key with M6 x 1 - 6H threaded hole
06 Involute splined 9T— metric 16,50 [.650] Dia. (B17 x 14 DIN 5482) M6 x 1 - 6H threaded hole
07 5/8 inch straight key w/ crosshole

9 Ports

A 9/16 -18 UNF - 2B O-Ring end ported
C M14 x 1,5 - 6H O-Ring port, end ported
D 9/16 -18 UNF - 2B O-Ring side ported
E G 3/8 (BSP) side ported
H G 3/8 (BSP) end ported

10 Case flow options

0 No case drain
1 3/8 -24 UNF - 2B O-Ring
2 G 1/8 (BSP)
3 M10 x 1 - 6H O-Ring

11 12 Special features (hardware)

00 None
08 Digital speed pickup (15 pulse), M12 connector (A=Power, B=Common, C=Signal)

13 Special features (assembly)

0 None
1 Reverse rotation

14 Paint/special packaging

0 No paint, individual box
A Low gloss black primer, individual box
B Environmental coated black
E Nickel plated motor (excluding shaft)

15 Danfoss assigned code when applicable

0 None

16 Danfoss assigned design code

B Two

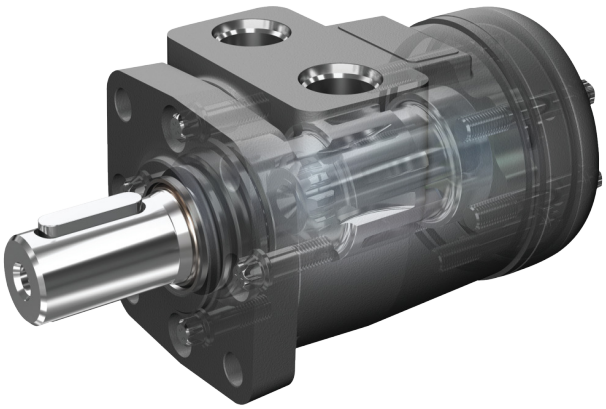
H Series (101-)

Highlights

B-2

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]	61[16]Continuous***
	76 [20] Intermittent**
Speed	Up to 1021 RPM
Pressure bar [PSI]	141[2050] Cont.***
	177[2565] 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