

Description:

With torque up to 1685 Nm [15,000 in-lbs] and 150 lpm [40 gpm] continuous, this motor is packed with power operates very smoothly.

**Features:**

- 9 displacements available
- Presents a multitude of options that make this motor very “smart” and flexible to apply

Benefits:

- Very tough motor for demanding applications
- Can be used in a multitude of industries
- Very easy/flexible to integrate in a system

Applications:

- Mobile equipment
- Snow removal, mowing
- Sprayer, trencher
- Wood products

Specifications

Geroler element	9 Displacements
Flow l/min [GPM]	150 [40] Continuous** 225 [60] Intermittent*
Speed RPM	775 Cont.** 866 Inter.*
Pressure bar [PSI]	200 [3000] Cont.** 300 [4500] Inter.*
Torque Nm [lb-in]	1685 [14920] Cont.** 1875 [16580] Inter.*

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

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

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Skid steer loader



Vertical drills



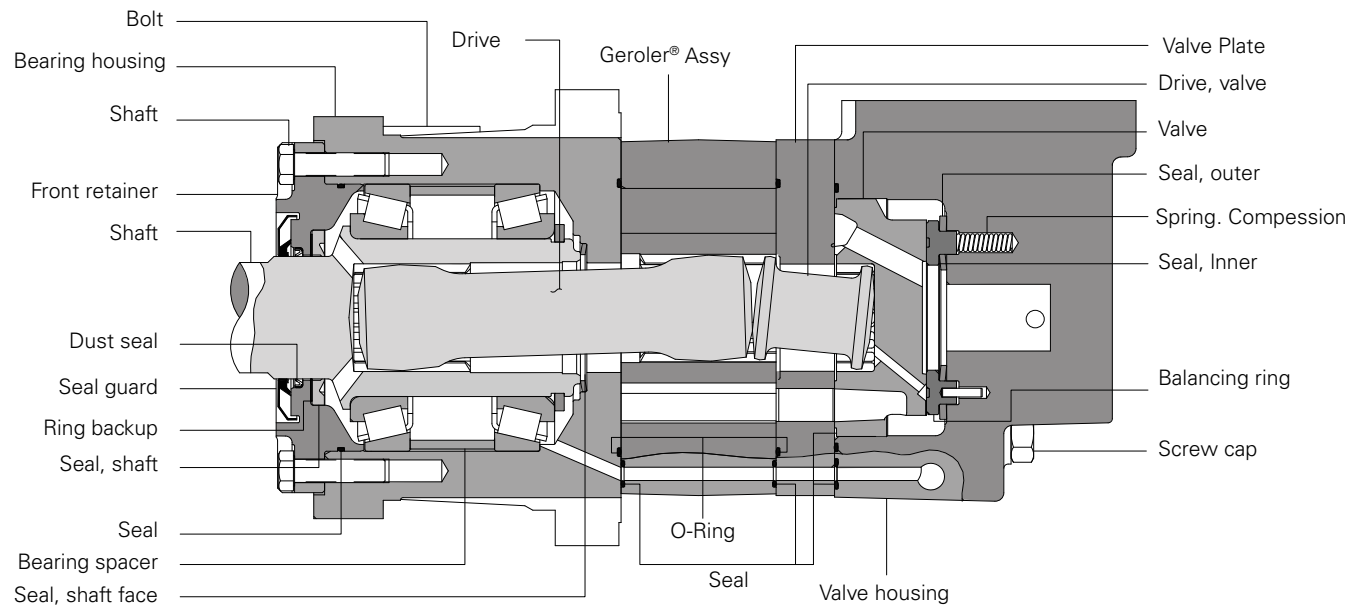
Paving equipment



Trencher

6000 Series

Specifications



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6000 series motors

Displ. cm ³ /r [in ³ /rev]	195 [11.9]	245 [15.0]	310 [19.0]	390 [23.9]	490 [30.0]	625 [38.0]	735 [45.0]	805 [49.0]	985 [60.0]	
Max speed (RPM) @ Flow	Continuous	775	615	485	387	307	241	203	187	153
	Intermittent	866	834	698	570	454	353	303	280	230
Flow l/min [GPM]	Continuous	150 [40]	150 [40]	150 [40]	150 [40]	150 [40]	150 [40]	150 [40]	150 [40]	150 [40]
	Intermittent	170 [45]	210 [55]	225 [60]	225 [60]	225[60]	225 [60]	225[60]	225[60]	225 [60]
Torque* Nm [lb - in]	Continuous	575 [5100]	735 [6510]	930 [8230]	1155 [10230]	1445 [12800]	1480 [13100]	1378 [12192]	1582 [14004]	1685 [14920]
	Intermittent	860 [7620]	1100 [9740]	1355 [11990]	1635 [14490]	1885 [16670]	1898 [16800]	1699 [15040]	1850 [16377]	1875 [16580]
Pressure Δ bar [Δ PSI]	Continuous	205 [3000]	205 [3000]	205 [3000]	205 [3000]	205 [3000]	170 [2500]	140 [2000]	140 [2000]	140 [2000]
	Intermittent	310 [4500]	310 [4500]	310 [4500]	310 [4500]	275 [4000]	221 [3200]	170 [2500]	170 [2500]	140 [2000]
	Peak	310 [4500]	310 [4500]	310 [4500]	310 [4500]	310 [4500]	240 [3500]	205 [3000]	170 [2500]	170 [2500]
Weight kg [lb]	Standard or Wheel mount	24.9 [55.0]	25.2 [55.5]	25.6 [56.5]	26.3 [58.0]	27.0 [59.5]	27.9 [61.5]	28.6 [63.0]	29 [64.0]	30.4 [67.0]
	Bearingless	20.2 [44.5]	20.4 [45.0]	20.9 [46.0]	21.5 [47.5]	22.2 [49.0]	23.1 [51.0]	23.8 [52.5]	24.3 [53.5]	25.6 [56.5]

Maximum case pressure: See case pressure seal limitation graph.

*See shaft torque ratings for limitations.

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:

310 bars (4500 PSI)

Do not exceed Δ pressure rating (see chart above).

Maximum return pressure:

310 bar [4500 PSI] with case drain line installed.

Do not exceed Δ pressure rating (see chart above).

Δ bar [Δ PSI]:

The true pressure difference between inlet port and outlet port

Continuous rating:

Motor may be run continuously at these ratings

Intermittent operation:

10% of every minute

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: 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. For best motor life select a motor to run with a torque and speed range shown 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

Peak
No operation

**Δ Pressure bar [PSI]
195 cm³/r [11.9 in³/r]**

[250]	[500]	[1000]	[1500]	[2000]	[2500]	[3000]	[3500]	[4000]	[4500]
17	34	69	103	138	172	207	241	276	310

[0.5]	[280]	[650]	[1450]	[2290]						
2	30	75	165	260						
	9	7	5	2						
[2]	[290]	[680]	[1500]	[2340]	[3100]	[3880]	[4140]			
8	35	75	170	265	350	440	470			
	38	37	35	34	30	26	18			
[4]	[300]	[710]	[1500]	[2390]	[3200]	[4030]	[4600]	[5200]	[5790]	
15	35	80	170	270	360	455	520	590	655	
	77	76	74	72	66	62	46	32	18	
[8]	[310]	[740]	[1590]	[2450]	[3280]	[4120]	[4810]	[5530]	[6250]	[6900]
30	35	85	180	275	370	465	545	625	705	780
	154	153	148	144	131	119	116	99	83	65
[14]	[320]	[750]	[1610]	[2480]	[3330]	[4190]	[4990]	[5810]	[6630]	[7320]
53	35	85	180	280	375	475	565	655	750	825
	232	230	225	221	212	203	186	167	148	118
[16]	[300]	[730]	[1600]	[2470]	[3340]	[4210]	[5090]	[5900]	[6710]	[7470]
61	35	80	180	280	375	475	575	665	760	845
	309	307	303	300	291	283	258	236	214	181
[20]	[270]	[720]	[1590]	[2460]	[3350]	[4240]	[5100]	[5950]	[6800]	[7620]
76	30	80	180	280	380	480	575	670	770	860
	387	384	379	374	365	356	332	306	280	247
[24]	[240]	[700]	[1570]	[2440]	[3330]	[4220]	[5080]	[5940]	[6810]	
91	25	80	175	275	375	475	575	670	770	
	465	462	456	450	440	429	413	388	363	
[28]	[190]	[660]	[1530]	[2400]	[3300]	[4200]	[5060]	[5940]	[6810]	
106	20	75	175	270	375	475	570	670	770	
	542	539	532	526	514	502	476	448	421	
[32]	[160]	[630]	[1500]	[2370]	[3270]	[4160]	[5040]	[5920]	[6790]	
121	20	70	170	270	370	470	570	670	765	
	620	617	609	602	589	576	542	511	480	
[36]	[120]	[620]	[1480]	[2350]	[3240]	[4130]	[5000]	[5880]	[6760]	
136	15	70	165	265	365	465	565	665	765	
	697	692	683	674	659	645	601	564	527	
[40]	[80]	[610]	[1450]	[2320]	[3210]	[4100]	[4960]	[5840]		
151	10	70	165	260	365	465	560	660		
	775	770	759	749	733	718	666	624		
[45]		[590]	[1410]	[2280]	[3170]	[4060]	[4920]	[5790]		
170		65	160	260	360	460	555	655		
		866	854	843	825	808	749	702		

[5790] } Torque [lb-in]
655 } Nm
702 } Speed RPM

6000 Series

Performance data

Motors run with high efficiency in all areas designated with a number for torque and speed. For best motor life select a motor to run with a torque and speed range shown 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.



**Δ Pressure bar [PSI]
245 cm³/r [15.0 in³/r]**

[250]	[500]	[1000]	[1500]	[2000]	[2500]	[3000]	[3500]	[4000]	[4500]
17	34	69	103	138	172	207	241	276	310

Flow LPM [GPM]	[0.5]	[430]	[860]	[1890]																
	2	50 7	95 4	215 1																
	[2]	[440]	[900]	[1940]	[2990]	[3960]	[4920]	[5425]	[5930]											
	8	50 30	100 29	220 26	340 24	445 21	555 17	615 11	670 6											
	[4]	[460]	[940]	[2000]	[3060]	[4080]	[5090]	[5680]	[6630]	[7570]	[8520]									
	15	50 61	105 60	225 56	345 54	460 48	575 42	640 39	750 30	855 12	965 6									
	[8]	[470]	[960]	[2060]	[3150]	[4210]	[5260]	[6180]	[7100]	[8020]	[9020]									
	30	55 122	110 120	235 116	355 113	475 104	595 95	700 81	800 67	905 53	1020 37									
	[14]	[480]	[970]	[2080]	[3180]	[4270]	[5360]	[6390]	[7420]	[8450]	[9510]									
	53	55 183	110 182	235 178	360 174	480 165	605 157	720 141	840 125	955 109	1075 92									
	[16]	[450]	[960]	[2070]	[3180]	[4290]	[5420]	[6480]	[7490]	[8480]	[9540]									
	61	50 245	110 244	235 240	360 236	485 228	610 221	730 202	845 184	960 165	1080 145									
	[20]	[420]	[940]	[2050]	[3160]	[4290]	[5440]	[6510]	[7580]	[8660]	[9740]									
	76	45 307	105 306	230 301	355 297	485 287	615 277	735 257	855 238	980 218	1100 197									
	[24]	[380]	[920]	[2020]	[3120]	[4260]	[5400]	[6490]	[7590]	[8680]										
	91	45 368	105 365	230 361	355 358	480 348	610 338	735 316	860 294	980 271										
	[28]	[330]	[870]	[1980]	[3100]	[4240]	[5380]	[6480]	[7580]	[8670]										
	106	35 430	100 426	225 421	350 416	480 404	610 376	730 358	855 340	980 322										
	[32]	[290]	[800]	[1920]	[3050]	[4170]	[5290]	[6410]	[7520]	[8640]										
	121	35 491	90 489	215 481	345 475	470 461	600 448	725 423	850 398	975 373										
[36]	[250]	[730]	[1850]	[2980]	[4060]	[5150]	[6300]	[7440]												
136	30 556	80 549	210 543	335 537	460 524	580 509	710 482	840 456												
[40]	[200]	[690]	[1790]	[2940]	[4010]	[5130]	[6190]	[7100]												
151	25 615	80 612	200 606	330 599	455 585	580 570	700 540	800 510												
[45]		[570]	[1760]	[2860]	[3960]	[5070]	[6080]	[6690]												
170		65 688	200 682	325 674	445 658	575 641	685 608	755 574												
[50]			[1720]	[2800]	[3890]	[4920]	[5940]													
189			195 758	315 749	440 731	555 712	670 676													
[55]			[1670]	[2740]	[3820]	[4890]	[5880]													
208			190 834	310 824	430 804	550 783	665 744													

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Motors run with high efficiency in all areas designated with a number for torque and speed. For best motor life select a motor to run with a torque and speed range shown 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

Peak
No operation

Δ Pressure bar [PSI] 310 cm³/r [19.0 in³/r]

[250]	[500]	[1000]	[1500]	[2000]	[2500]	[3000]	[3500]	[4000]	[4500]
17	34	69	103	138	172	207	241	276	310

Flow LPM [GPM]	[0.5]	[530]	[1120]	[2440]																		
	2	60 6	125 4	275 1																		
	[2]	[540]	[1150]	[2460]	[3620]	[4780]	[5690]	[6670]	[7780]													
	8	60 24	130 23	280 22	410 20	540 17	645 14	755 10	880 4													
	[4]	[550]	[1180]	[2560]	[3800]	[5030]	[6050]	[7070]	[8260]	[9070]	[9530]											
	15	60 48	135 47	290 45	430 42	570 38	685 32	800 24	935 17	1025 10	1075 3											
	[8]	[560]	[1250]	[2650]	[3970]	[5280]	[6480]	[7710]	[8740]	[9770]	[10990]											
	30	65 96	140 95	300 91	450 87	595 81	730 73	870 64	985 55	1105 46	1240 35											
	[14]	[570]	[1260]	[2690]	[4050]	[5420]	[6730]	[8040]	[9260]	[10490]	[11800]											
	53	65 144	140 143	305 140	460 135	610 129	760 121	910 111	1045 99	1185 88	1335 76											
	[16]	[540]	[1230]	[2660]	[4060]	[5450]	[6800]	[8150]	[9400]	[10660]	[11990]											
	61	60 193	140 192	300 188	460 184	615 178	770 167	920 156	1060 141	1205 126	1355 109											
	[20]	[510]	[1200]	[2630]	[4040]	[5450]	[6820]	[8190]	[9520]	[10840]												
	76	60 242	135 241	295 236	455 232	615 226	770 216	925 201	1075 184	1225 167												
	[24]	[480]	[1160]	[2600]	[4020]	[5440]	[6840]	[8230]	[9560]	[10900]												
	91	55 290	130 289	295 282	455 279	615 273	775 260	930 248	1080 232	1230 215												
	[28]	[420]	[1130]	[2570]	[3990]	[5420]	[6820]	[8220]	[9520]	[10840]												
	106	45 339	130 336	290 333	450 328	610 320	770 308	930 295	1075 276	1225 257												
	[32]	[360]	[1100]	[2510]	[3920]	[5330]	[6750]	[8170]	[9440]													
	121	40 388	125 384	285 381	445 375	600 368	765 354	925 341	1065 320													
[36]	[300]	[1060]	[2440]	[3830]	[5220]	[6660]	[8100]	[9330]														
136	35 436	120 430	275 421	435 416	590 410	750 396	915 383	1055 360														
[40]	[270]	[1020]	[2400]	[3780]	[5150]	[6580]	[8020]	[9220]														
151	30 485	115 478	270 466	425 461	580 456	745 441	905 427	1040 403														
[50]		[982]	[2180]	[3420]	[4660]	[6050]	[7440]															
189		110 597	245 582	385 576	525 570	685 551	840 534															
[60]			[1960]	[3250]	[4540]	[5750]	[7080]															
227			220 698	365 691	515 684	650 661	800 641															

[5750] } Torque [lb-in]
650 } Nm
661 } Speed RPM

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6000 Series

Performance data

Motors run with high efficiency in all areas designated with a number for torque and speed. For best motor life select a motor to run with a torque and speed range shown 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.



Δ Pressure bar [PSI] 390 cm³/r [23.9 in³/r]

[250]	[500]	[1000]	[1500]	[2000]	[2500]	[3000]	[3500]	[4000]	[4500]
17	34	69	103	138	172	207	241	276	310

Flow LPM [GPM]	[1]	[760] 85 4	[1570] 175 2	[3230] 365 1							
	4										
	[2]	[780] 90 19	[1610] 180 18	[3270] 370 17	[4910] 555 16	[6440] 730 14	[7760] 875 12	[9080] 1025 9	[10590] 1195 4		
	8										
	[4]	[800] 90 38	[1640] 185 38	[3300] 375 37	[4970] 560 35	[6570] 740 33	[8160] 920 29	[9570] 1080 22	[11270] 1275 14	[12880] 1455 5	[14490] 1635 1
	15										
	[8]	[810] 90 77	[1650] 185 76	[3370] 380 74	[5080] 575 72	[6740] 760 68	[8430] 950 65	[10050] 1135 55	[11620] 1315 45	[12880] 1455 33	[14480] 1635 21
	30										
	[14]	[800] 90 115	[1620] 185 115	[3390] 385 112	[5130] 580 109	[6810] 770 105	[8520] 965 100	[10190] 1150 91	[11860] 1340 81	[13640] 1540 79	
	53										
	[16]	[750] 85 154	[1600] 180 154	[3380] 380 151	[5120] 580 147	[6820] 770 143	[8560] 965 132	[10230] 1155 126	[11920] 1345 116		
	61										
	[20]	[680] 75 193	[1580] 180 193	[3360] 380 189	[5120] 580 187	[6840] 775 182	[8590] 970 175	[10280] 1160 162	[11980] 1355 152		
	76										
	[24]	[620] 70 232	[1520] 170 230	[3280] 370 229	[5060] 570 225	[6780] 765 220	[8530] 965 212	[10240] 1155 204			
	91										
[28]	[570] 65 270	[1460] 165 268	[3210] 365 266	[5000] 565 261	[6730] 760 256	[8480] 960 248	[10200] 1150 236				
106											
[32]	[530] 60 309	[1420] 160 306	[3140] 355 304	[4930] 555 299	[6640] 750 292	[8380] 945 282	[10120] 1145 269				
121											
[36]	[450] 50 348	[1370] 155 346	[3010] 340 340	[4840] 545 336	[6500] 735 329	[8250] 930 317	[10000] 1130 301				
136											
[40]	[380] 45 387	[1320] 150 386	[2880] 325 380	[4740] 535 375	[6460] 730 368	[8120] 915 359					
151											
[50]		[1140] 130 482	[2650] 300 475	[4540] 515 469	[6440] 730 460	[8050] 910 449					
189											
[60]			[2460] 280 570	[4430] 500 562	[6360] 720 552	[7860] 890 538					
227											

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Motors run with high efficiency in all areas designated with a number for torque and speed. For best motor life select a motor to run with a torque and speed range shown 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

Peak
No operation

**Δ Pressure bar [PSI]
490 cm³/r [30.0 in³/r]**

[250]	[500]	[1000]	[1500]	[2000]	[2500]	[3000]	[3500]	[4000]
17	34	69	103	138	172	207	241	276

Flow LPM [GPM]	[1]	[1010]	[2200]	[4260]	[6140]															
	4	115	235	480	695															
		7	7	5	3															
	[2]	[1020]	[2110]	[4270]	[6280]	[8350]	[10420]	[12140]												
	8	115	240	480	710	945	1175	1370												
		15	14	13	12	11	8	3												
	[4]	[1030]	[2100]	[4280]	[6410]	[8500]	[10590]	[12500]	[14580]	[16670]										
	15	115	235	485	725	960	1195	1410	1645	1885										
		30	30	29	28	27	25	21	17	12										
	[8]	[1020]	[2090]	[4290]	[6490]	[8620]	[10740]	[12800]	[14930]											
	30	115	235	485	735	975	1215	1445	1685											
		60	60	59	57	54	51	45	38											
	[14]	[1000]	[2080]	[4290]	[6500]	[8650]	[10800]	[12890]												
	53	115	235	485	735	975	1220	1455												
		91	91	89	87	84	79	71												
	[16]	[1100]	[2060]	[4260]	[6480]	[8650]	[10820]	[12900]												
	61	124	235	480	730	975	1220	1460												
		122	122	121	118	114	109	100												
	[20]	[900]	[1980]	[4180]	[6420]	[8620]	[10820]													
76	100	225	470	725	975	1220														
	153	152	150	147	144	139														
[24]	[850]	[1930]	[4150]	[6390]	[8580]	[10770]														
91	95	220	470	720	970	1215														
	184	184	181	180	176	171														
[28]	[740]	[1840]	[4070]	[6290]	[8500]	[10720]														
106	85	210	460	710	960	1210														
	215	214	211	208	204	198														
[32]	[690]	[1710]	[3970]	[6190]	[8420]	[10660]														
121	80	195	450	700	950	1205														
	245	244	241	237	232	226														
[36]	[670]	[1560]	[3860]	[6080]	[8340]	[10420]														
136	75	175	435	685	940	1175														
	276	275	272	265	260	255														
[40]	[570]	[1400]	[3750]	[5970]	[8140]	[10180]														
151	65	160	425	675	920	1150														
	307	306	303	295	290	284														
[50]		[1140]	[3240]	[5220]	[7620]															
189		130	365	590	860															
		382	379	369	362															
[60]			[2860]	[4860]	[7140]															
227			325	550	805															
			454	442	435															

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[2860] } Torque [lb-in]
325 } Nm
454 } Speed RPM

6000 Series

Performance data

Motors run with high efficiency in all areas designated with a number for torque and speed. For best motor life select a motor to run with a torque and speed range shown 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.



**Δ Pressure bar [PSI]
625 cm³/r [38.0 in³/r]**



[250]	[500]	[1000]	[1500]	[2000]	[2500]	[3000]	[3200]
17	34	69	103	138	172	207	221


Flow LPM [GPM]	[1]	[1060]	[2205]	[4515]	[6690]				
	4	120	250	510	755				
		5	5	4	2				
	[2]	[1090]	[2300]	[4720]	[7025]	[9360]			
	8	125	260	535	795	1060			
		12	12	12	10	6			
	[4]	[1145]	[2450]	[5052]	[7520]	[10090]	[12700]		
	15	130	275	570	850	1140	1434		
		24	24	24	21	16	13		
	[8]	[1195]	[2600]	[5350]	[8195]	[11220]	[13100]	[15800]	[16800]
	30	135	295	605	925	1270	1480	1785	1898
		45	45	44	42	37	35	32	30
	[14]	[1200]	[2600]	[5390]	[8145]	[10570]	[13000]	[15700]	
	53	135	295	610	920	1195	1469	1774	
		72	72	71	68	64	60	56	
	[16]	[1120]	[2530]	[5340]	[8105]	[10530]	[13000]		
61	125	285	605	915	1190	1469			
	94	94	92	89	85	83			
[20]	[1050]	[2465]	[5285]	[8080]	[11725]				
76	120	280	595	915	1325				
	120	119	117	115	110				
[24]	[950]	[2365]	[5180]	[7990]	[11705]				
91	105	265	585	905	1320				
	144	143	140	138	132				
[28]	[855]	[2255]	[5080]	[7915]	[11640]				
106	95	255	575	895	1315				
	169	168	165	162	156				
[32]	[730]	[2140]	[4960]	[7775]	[11505]				
121	80	240	560	880	1300				
	193	192	188	185	179				
[36]	[555]	[1965]	[4780]	[7585]					
136	65	220	540	855					
	217	216	213	210					
[40]	[380]	[1790]	[4600]	[7395]					
151	45	200	520	835					
	241	240	238	236					
[50]			[4180]	[6985]					
189			470	790					
			296	290					
[60]			[3800]	[6600]					
227			430	745					
			353	345					

C-5

Motors run with high efficiency in all areas designated with a number for torque and speed. For best motor life select a motor to run with a torque and speed range shown 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

 Peak
 No operation

**Δ Pressure bar [PSI]
735 cm³/r [45.0 in³/r]**

[250]	[500]	[750]	[1000]	[1250]	[1500]	[1750]	[2000]	[2250]	[2500]
17	34	52	69	86	103	121	138	155	172

Flow LPM [GPM]	[1]	[1311]	[2775]	[4200]	[5480]	[7000]							
	4	148	314	475	619	791							
		4	4	3	3	2							
	[2]	[1340]	[2856]	[4535]	[6020]	[7551]	[8685]	[10182]	[11121]				
	8	151	323	512	680	853	981	1150	1257				
		10	10	10	10	9	7	6	5				
	[4]	[1253]	[2854]	[4363]	[5813]	[7272]	[8714]	[10135]	[11537]	[12970]	[15040]		
	15	142	322	493	657	822	985	1145	1303	1465	1699		
		20	20	19	18	17	16	14	13	11	11		
	[8]	[1290]	[2889]	[4540]	[6130]	[7703]	[9202]	[10666]	[12192]	[13713]			
	30	146	326	513	693	870	1040	1205	1378	1549			
		40	39	38	38	37	37	35	33	32			
	[14]	[1277]	[2821]	[4528]	[6180]	[7795]	[9338]	[10877]	[12419]				
	53	144	319	512	698	881	1055	1229	1403				
		61	60	59	58	57	56	54	52				
	[16]	[1196]	[2753]	[4478]	[6148]	[7768]	[9376]	[10984]					
	61	135	311	506	695	878	1059	1241					
		82	80	79	78	77	76	74					
	[20]	[1092]	[2794]	[4320]	[6021]	[7697]	[9311]	[10907]					
76	123	316	488	680	870	1052	1232						
	102	101	101	99	97	96	93						
[24]	[1206]	[2556]	[4162]	[5871]	[7564]	[9289]							
91	136	289	470	663	855	1049							
	123	122	120	119	118	116							
[28]	[1083]	[2338]	[4040]	[5666]	[7365]	[9022]							
106	122	264	456	640	832	1019							
	145	142	141	139	137	135							
[32]	[950]	[2110]	[3795]	[5457]	[7122]	[8828]							
121	107	238	429	617	805	997							
	163	162	162	159	159	156							
[36]	[726]	[1845]	[3517]	[5223]	[6853]								
136	82	208	397	590	774								
	184	183	182	181	179								
[40]	[515]	[2227]	[3270]	[4965]	[6672]								
151	58	252	369	561	754								
	203	202	202	201	199								
[50]			[3869]	[4870]	[5850]								
189			437	550	661								
			254	252	250								
[60]				[4856]	[6604]								
227				549	746								
				303	301								

[6604] } Torque [lb-in]
 746 } Nm
 301 } Speed RPM

C-5

6000 Series

Performance data

Motors run with high efficiency in all areas designated with a number for torque and speed. For best motor life select a motor to run with a torque and speed range shown 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.



Δ Pressure bar [PSI] 805 cm³/r [49.0 in³/r]

[250]	[500]	[750]	[1000]	[1250]	[1500]	[1750]	[2000]	[2250]	[2500]
17	34	52	69	86	103	121	138	155	172

C-5

Flow LPM [GPM]


[1]	[1455]	[3100]	[4680]	[6031]	[7799]																
4	164	350	529	681	881																
	4	4	2	2	1																
[2]	[1483]	[3173]	[5121]	[6432]	[8510]	[9633]	[11319]	[12127]													
8	168	359	579	727	961	1088	1279	1370													
	9	9	9	8	7	6	5	5													
[4]	[1547]	[3331]	[5292]	[7000]	[8714]	[10075]	[11352]	[12965]	[14564]	[16377]											
15	175	376	598	790	984	1138	1283	1465	1645	1850											
	19	19	18	17	16	15	14	12	11	10											
[8]	[1599]	[3473]	[5415]	[7170]	[8934]	[10629]	[12300]	[14004]	[15441]												
30	181	392	612	810	1009	1201	1390	1582	1745												
	35	35	34	33	32	31	29	29	28												
[14]	[1599]	[3469]	[5415]	[7093]	[9024]	[10658]	[12283]	[13726]													
53	181	392	612	801	1020	1204	1388	1551													
	56	56	55	53	53	52	50	50													
[16]	[1543]	[3395]	[5357]	[7032]	[8983]	[10640]	[12010]														
61	174	384	605	794	1015	1202	1357														
	73	73	72	70	69	68	67														
[20]	[1457]	[3312]	[5292]	[6968]	[8943]	[10583]	[12146]														
76	165	374	598	787	1010	1196	1372														
	93	92	91	89	88	87	86														
[24]	[1352]	[3183]	[5088]	[6811]	[8812]	[10411]															
91	153	360	575	769	996	1176															
	112	112	111	110	108	106															
[28]	[1213]	[3055]	[5047]	[6713]	[8681]	[10411]															
106	137	345	570	758	981	1176															
	131	131	131	129	128	127															
[32]	[1075]	[2907]	[4884]	[6546]	[8395]	[10060]															
121	121	328	552	740	949	1137															
	150	149	149	146	145	144															
[36]	[823]	[2692]	[4663]	[6320]	[8118]																
136	93	304	527	714	917																
	168	168	168	167	165																
[40]	[592]	[2477]	[4426]	[6085]	[7832]																
151	67	280	500	688	885																
	187	186	186	185	184																
[50]		[2730]	[4214]	[5849]	[7603]																
189		308	476	661	859																
		234	233	231	230																
[60]			[3806]	[5459]	[7407]																
227			430	617	837																
			280	277	275																


Motors run with high efficiency in all areas designated with a number for torque and speed. For best motor life select a motor to run with a torque and speed range shown 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

 Peak

 Intermittent

 No operation

**Δ Pressure bar [PSI]
985 cm³/r [60.0 in³/r]**

[250]	[500]	[750]	[1000]	[1250]	[1500]	[1750]	[2000]
17	34	52	69	86	103	121	138

Flow LPM [GPM]	[1]	[1890]	[4110]	[5730]	[7640]	[9550]			
	4	215	465	645	865	1080			
		3	3	2	2	1			
	[2]	[1910]	[4140]	[6270]	[8300]	[10420]	[12500]	[13860]	[14920]
	8	215	470	710	940	1175	1410	1565	1685
		8	8	7	7	6	5	4	3
	[4]	[1980]	[4290]	[6480]	[8540]	[10670]	[12800]	[13900]	[15850]
	15	225	485	730	965	1205	1445	1570	1790
		15	15	15	14	14	13	13	12
	[8]	[2030]	[4400]	[6630]	[8790]	[10940]	[13090]	[14500]	[16580]
	30	230	495	750	995	1235	1480	1640	1875
		30	30	30	29	28	27	26	25
	[14]	[2020]	[4390]	[6630]	[8860]	[11050]	[13240]	[15040]	
	53	230	495	750	1000	1250	1495	1700	
		45	45	45	44	43	42	41	
	[16]	[2010]	[4320]	[6560]	[8790]	[11000]	[13260]		
	61	225	490	740	995	1245	1500		
		61	61	61	60	59	58		
	[20]	[1910]	[4220]	[6480]	[8720]	[10950]	[13160]		
76	215	475	730	985	1235	1485			
	77	77	76	76	75	74			
[24]	[1810]	[4060]	[6230]	[8500]	[10790]	[12990]			
91	205	460	705	960	1220	1470			
	92	92	92	91	90	89			
[28]	[1620]	[3920]	[6180]	[8420]	[10630]	[12820]			
106	185	445	700	950	1200	1450			
	107	107	107	106	105	103			
[32]	[1480]	[3740]	[5980]	[8200]	[10280]				
121	165	425	675	925	1160				
	123	123	122	121	120				
[36]	[1140]	[3490]	[5710]	[7930]	[9940]				
136	130	395	645	895	1125				
	138	138	138	137	135				
[40]	[850]	[3240]	[5420]	[7640]	[9590]				
151	95	365	610	865	1085				
	153	153	152	151	150				
[50]		[2960]	[5160]	[7350]	[9310]				
189		325	585	830	1050				
		191	190	189	188				
[60]			[4660]	[7160]	[9070]				
227			525	810	1025				
			230	229	226				

[7160] } Torque [lb-in]
810 } Nm
229 } Speed RPM

C-5

6000 Series

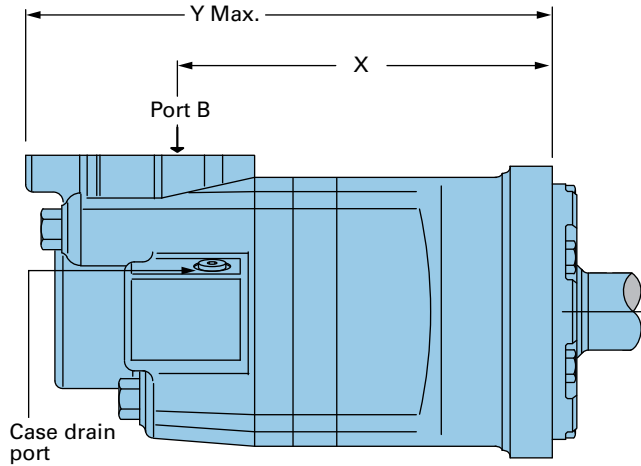
Dimensions

Standard mount

Ports

- 1 5/16 -12 UN-2B SAE O-ring staggered ports (2)
- 7/16 -20 UNF-2B SAE O-ring case drain port (1)
- 4 Bolt 3/4 inch Split flange ports (2)
- 7/16 -20 UNF-2B SAE O-ring case drain port (1)
- G 1 (BSP) Staggered ports (2)
- G 1/4 (BSP) Case drain port (1)
- 1 5/16 UN-2B SAE O-ring staggered ports (2) with shuttle
- 9/16 -20 UNF-2B SAE O-ring case drain port (1)

Standard mount



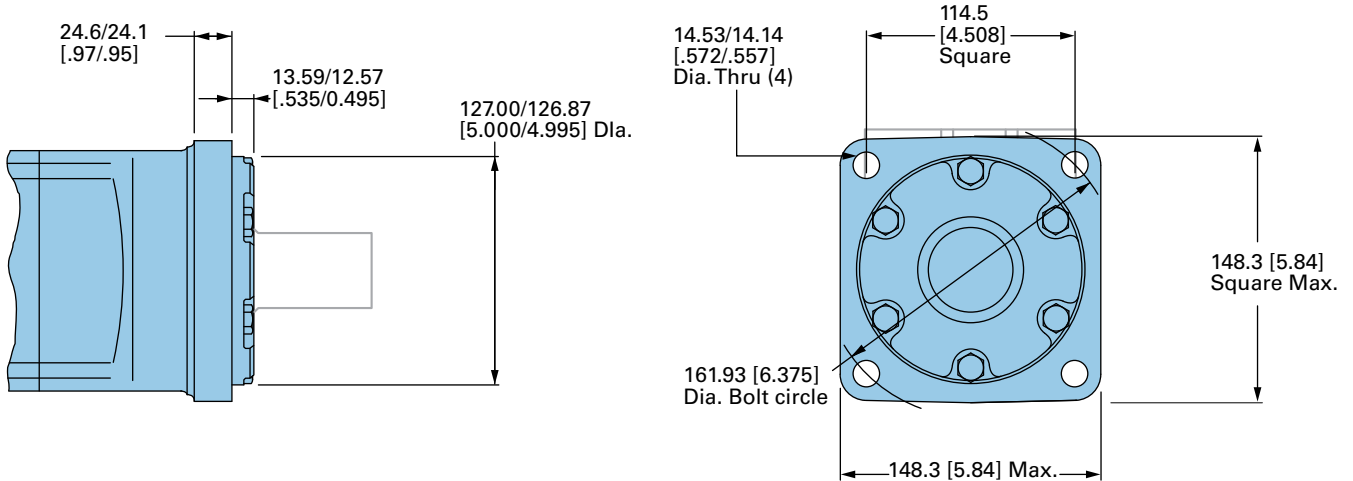
Standard rotation viewed from shaft end

- Port A pressurized — CW
- Port B pressurized — CCW

Standard motor mount dimensions

Displacement cm ³ /r [in ³ /r]	X mm [inch]	Y mm [inch]
195 [11.9]	187.7 [7.39]	270.4 [10.65]
245 [15.0]	193.3 [7.61]	276.0 [10.87]
310 [19.0]	200.7 [7.9]	283.3 [11.15]
390 [23.9]	209.3 [8.24]	292.1 [11.50]
490 [30.0]	220.5 [8.68]	303.2 [11.94]
625 [38.0]	235.0 [9.25]	317.9 [12.52]
735 [45.0]	247.5 [9.74]	330.5 [13.01]
805 [49]	254.89 [10.035]	337.8 [13.30]
985 [60.0]	274.9 [10.82]	357.6 [14.08]

Standard SAE CC Flange



Wheel mount

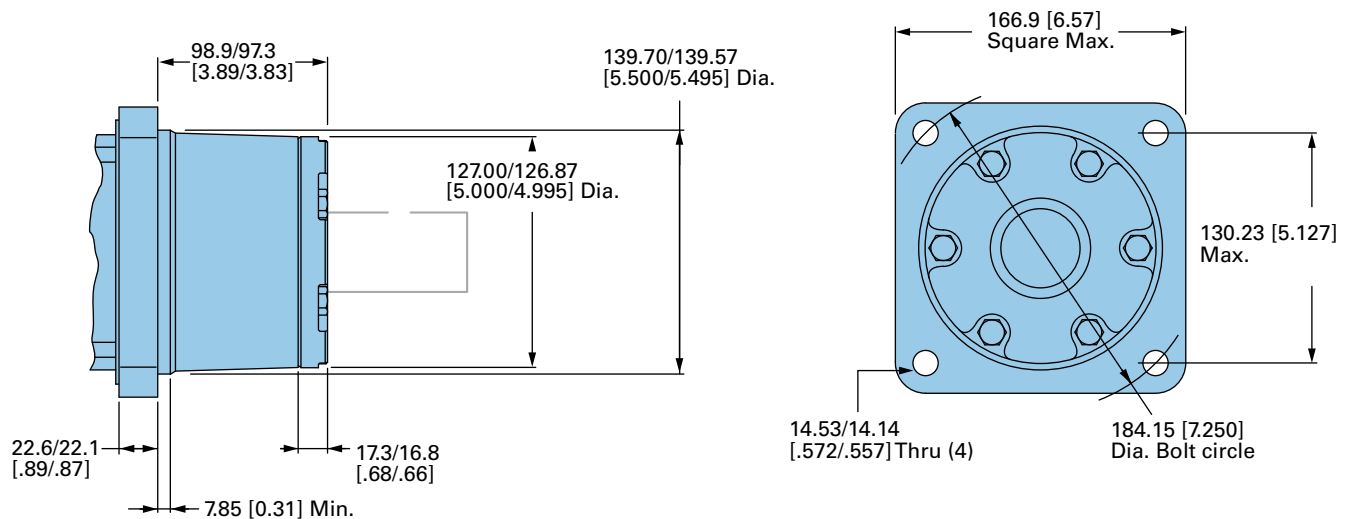
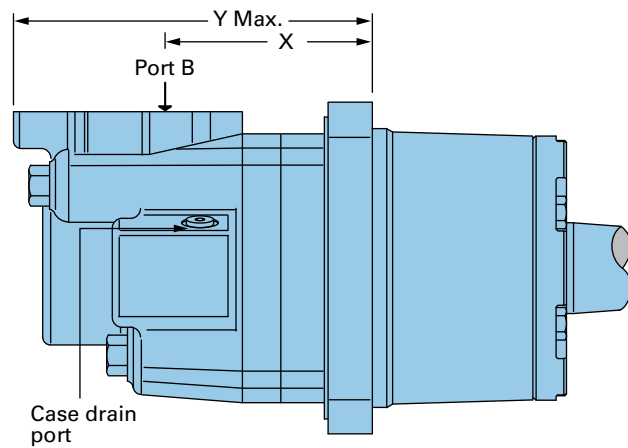
Ports

- 1 5/16 -12 UN-2B SAE O-ring staggered ports (2)
- 7/16 -20 UNF-2B SAE O-ring case drain port (1)
- 4 Bolt 3/4 inch split flange ports (2)
- 7/16 -20 UNF-2B SAE O-ring Case drain port (1)
- G 1 (BSP) Staggered ports (2)
- G 1/4 (BSP) Case drain port (1)
- 1 5/16 UN-2B SAE O-ring staggered ports (2) with shuttle
- 9/16 -20 UNF-2B SAE O-ring case drain port (1)

Standard rotation viewed from shaft end

- Port A pressurized — CW
- Port B pressurized — CCW

Wheel mount



Wheel mount motor dimensions

Displacement cm ³ /r [in ³ /r]	X mm [inch]	Y mm [inch]
195 [11.9]	102.6 [4.04]	185.6 [7.31]
245 [15.0]	108.2 [4.26]	191.3 [7.53]
310 [19.0]	115.6 [4.55]	198.5 [7.82]
390 [23.9]	124.5 [4.90]	207.3 [8.16]
490 [30.0]	135.4 [5.33]	218.4 [8.60]
625 [38.0]	150.1 [5.91]	233.1 [9.18]
735 [45]	162.8 [6.41]	245.7 [9.67]
805 [49]	169.9 [6.9]	253 [9.96]
985 [60.0]	189.7 [7.47]	272.8 [10.74]

6000 Series

Dimensions

Global mount (ISO)

Ports

- 1 5/16 -12 UN-2B SAE O-ring staggered ports (2)
- 7/16 -20 UNF-2B SAE O-ring case drain port (1)
- 4 Bolt 3/4 inch Split flange ports (2)
- 7/16 -20 UNF-2B SAE O-ring case drain port (1)
- G 1 (BSP) Staggered ports (2)
- G 1/4 (BSP) Case drain port (1)
- 1 5/16 UN-2B SAE O-ring staggered ports (2) with shuttle
- 9/16 -20 UNF-2B SAE O-ring case drain port (1)

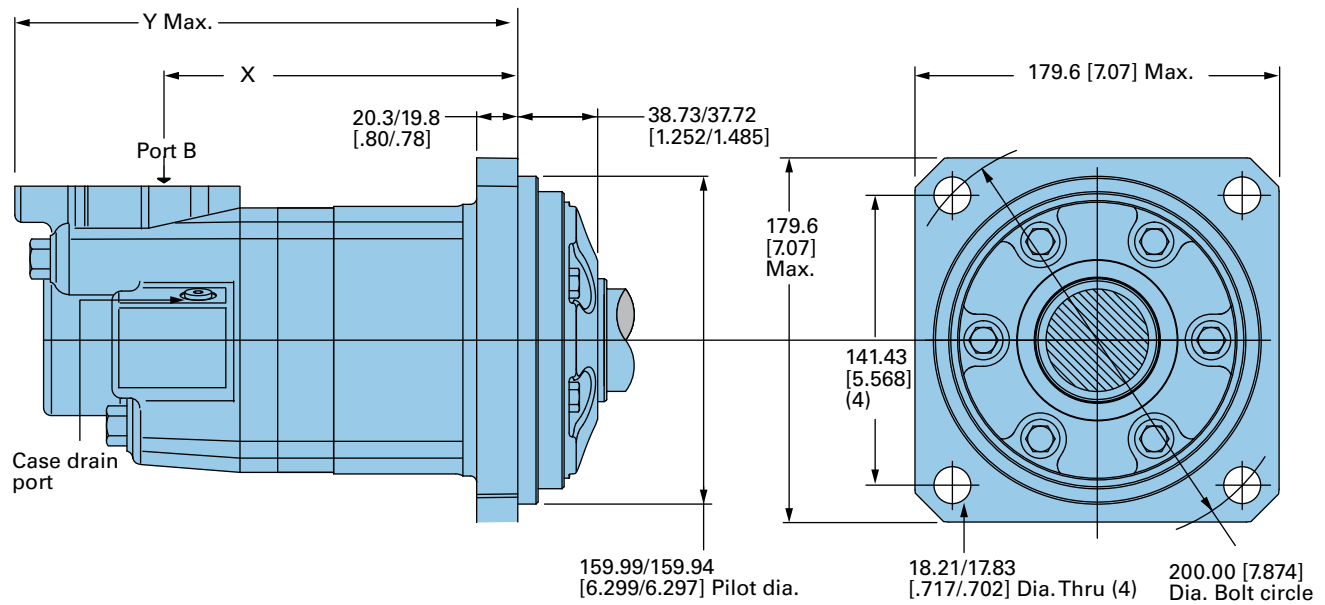
Global mount motor dimensions

Displacement cm ³ /r [in ³ /r]	X mm [inch]	Y mm [inch]
310 [19.0]	182.4 [7.18]	264.9 [10.43]
390 [24.0]	191.0 [7.52]	273.6 [10.77]
490 [30.0]	202.2 [7.96]	284.7 [11.21]
625 [38.0]	216.9 [8.54]	299.5 [11.79]
800 [45.0]	229.4 [9.03]	312.2 [12.29]
800 [49.0]	236.7 [9.32]	319.3 [12.57]
985 [60.0]	256.5 [10.10]	339.1 [13.35]

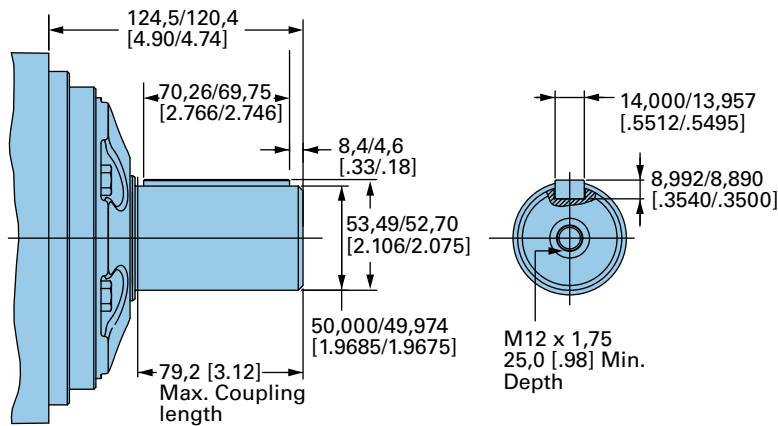
Standard rotation viewed from shaft end

- Port A pressurized — CW
- Port B pressurized — CCW

Global mount (ISO)



50 mm Dia. Straight shaft



Bearingless

Ports

- 1 5/16 -12 UN-2B SAE O-ring staggered ports (2)
- 7/16 -20 UNF-2B SAE O-ring case drain port (1)
- 4 Bolt 3/4 inch split flange ports (2)
- 7/16 -20 UNF-2B SAE O-ring case drain port (1)
- G 1 (BSP) staggered ports (2)
- G 1/4 (BSP) case drain port (1)
- 1 5/16 UN-2B SAE O-ring staggered ports (2) with shuttle
- 9/16 -20 UNF-2B SAE O-ring case drain port (1)

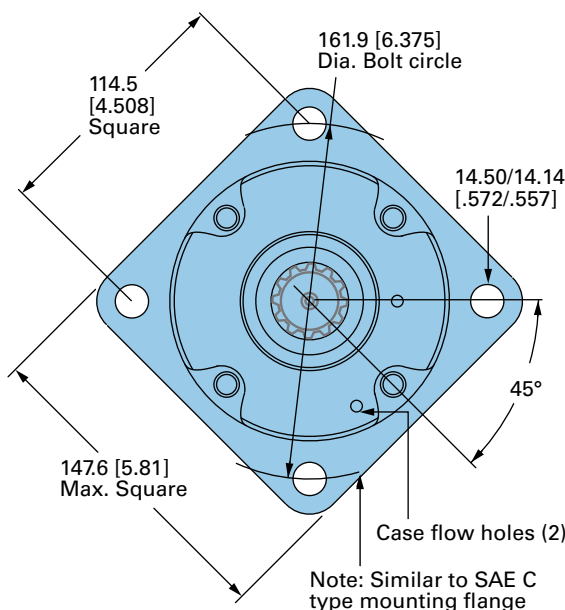
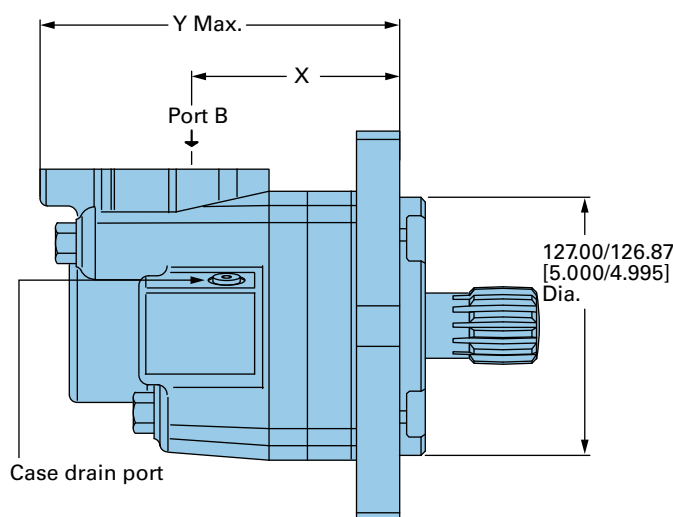
Standard rotation viewed from drive end

- Port A pressurized — CW
- Port B pressurized — CCW

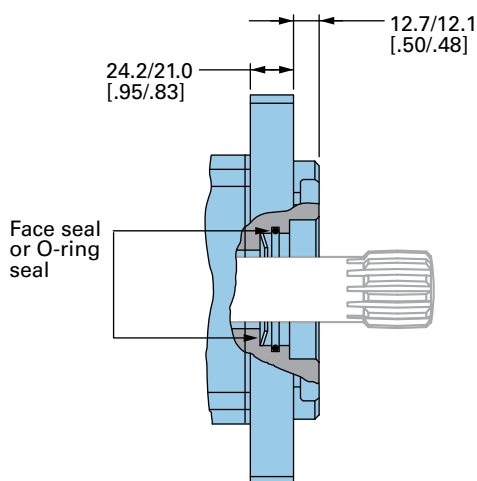
Bearingless motor dimensions

Displacement cm ³ /r [in ³ /r]	X mm [inch]	Y mm [inch]
195 [11.9]	105.4 [4.15]	188.0 [7.40]
245 [15.0]	111.0 [4.37]	193.5 [7.62]
310 [19.0]	118.4 [4.66]	200.7 [7.90]
390 [23.9]	127.3 [5.01]	209.6 [8.25]
490 [30.0]	138.2 [5.44]	220.7 [8.69]
625 [38.0]	152.9 [6.02]	235.5 [9.27]
735 [45]	166.1 [6.54]	248.2 [9.77]
805 [49]	172.85 [6.805]	255.3 [10.05]
985 [60.0]	192.8 [7.59]	275.1 [10.83]

Bearingless

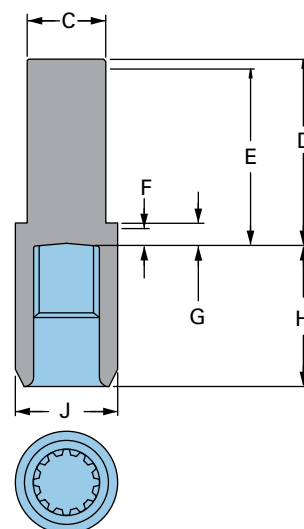


For 6000 bearingless motor application information, contact your Eaton representative (mating coupling blanks available from Eaton Hydraulics).



Bearingless blank dimensions

- C 47.2 [1.86] Dia.
- D 112.5 [4.39] Max.
- E 106.4 [4.19]
Full form dia.
- F 6.9 [.27] Min.
Full form dia.
- G 10.2 [.40] Max.
- H 86.1 [3.39] Max.
- J 66.5 [2.62] Dia.



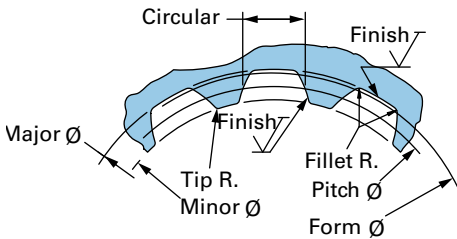
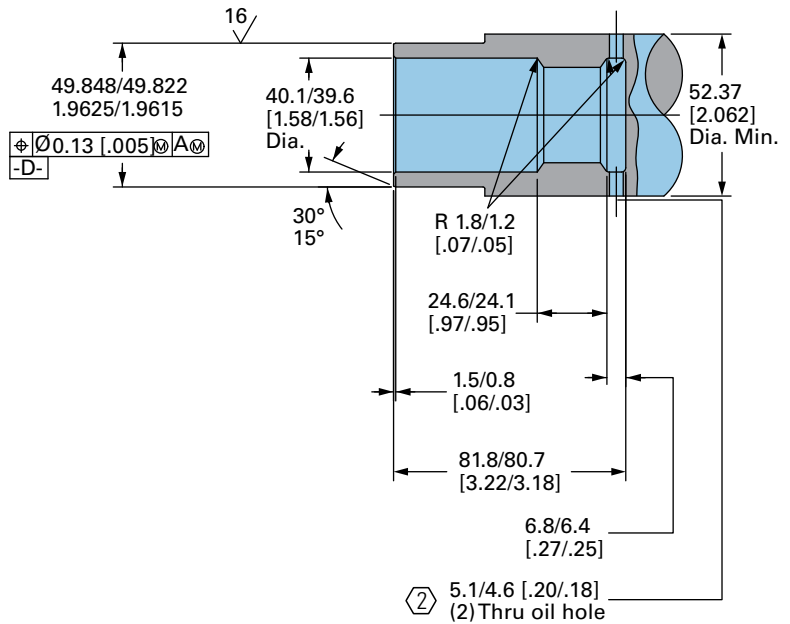
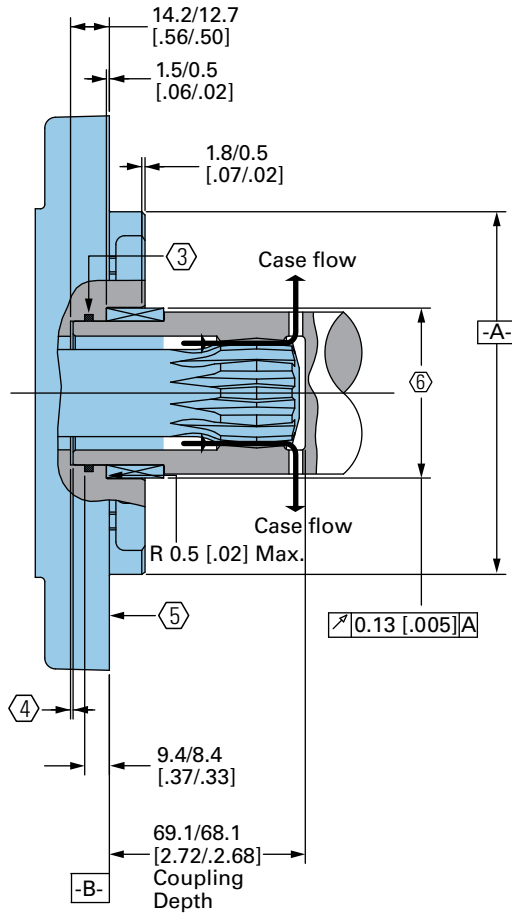
Mating coupling blank Eaton Part no. 12778-002

6000 Series

Installation information

Bearingless

C-5



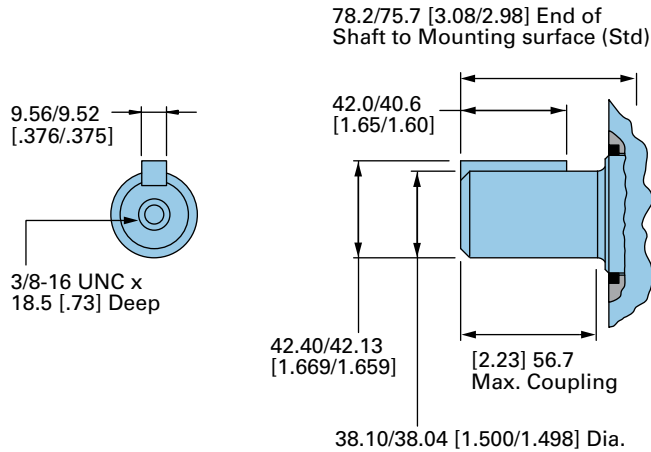
- Internal spline in mating part to be as follows: Material to be ASTM A304, 8620H. Carbonize to a hardness of 60-64 HRc with case depth (to 50HRc) of 0.076 - 1.02 [.030 - .040] (dimensions apply after heat treat).
- Mating part to have critical dimensions as shown. Oil holes must be provided and open for proper oil circulation.
- Seal to be furnished with motor for proper oil circulation thru splines.
- Some means of maintaining clearance between shaft and mounting flange must be provided.
- Similar to SAE "C" Four Bolt Flange.
- Counterbore designed to adapt to a standard sleeve bearing 50.010 - 50.038 [1.9689 - 1.9700] ID by 60.051 - 60.079 [2.3642 - 2.3653] O.D. (Oilite bronze sleeve bearing).

Spline pitch	8.5/17
Pressure angle	30°
Number of teeth	12
Class of fit	Ref. 5
Type of fit	Side
Pitch diameter	Ref. 35.858823 [1.4117647]
Base diameter	Ref. 31.054652 [1.2226241] $\sqrt{0.21 [0.008] D}$
Major diameter	39.17 [1.542] Max. 38.97 [1.534] Min.
Min. Minor diameter	33.30 - 33.48 [1.311 - 1.318]
Form diameter, Min	38.33 [1.509]
Fillet radius	0.64 - 0.76 [.025 - .030]
Tip radius	0.25 - 0.51 [.010 - .020]
Finish	1.6 (63)
Involute profile variation	+0.000 -0.025 [+0.0000 -0.0010]
Total index variation	0.038 [.0015]
Lead variation	0.038 [.0015]
Circular space width:	
Maximum actual	5.898 [.2322]
Minimum effective	5.804 [.2285]
Maximum effective	Ref. 5.857 [.2306]
Minimum actual	Ref. 5.834 [.2297]
Dimension between two pins	Ref. 26.929 - 27.084 [1.0602 - 1.0663]
Pin diameter	6.223 [.2450] Pins to Have 4.0 [.160]
	Wide flat for root clearance

Shafts splined

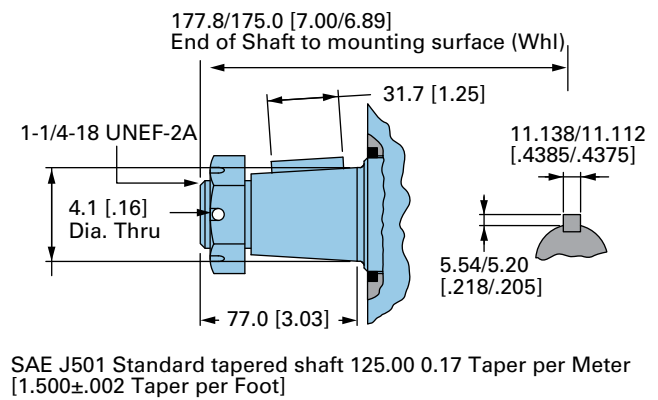
Code: 01 1 1/2 Inch Straight

1328 [11750] Max. Torque Nm [lb-in]



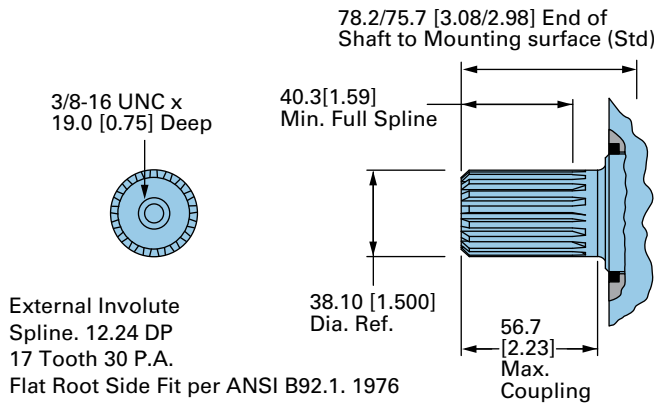
Code: 02 1 3/4 Inch tapered

2107 [18650] Max. Torque Nm [lb-in]

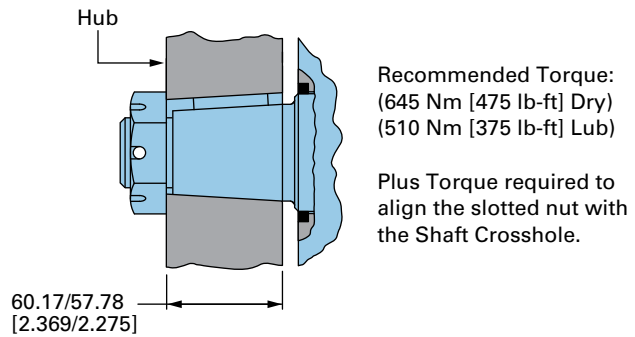


Code: 03 1 1/2 Inch 17 Tooth splined

1328 [11750] Max. Torque Nm [lb-in]

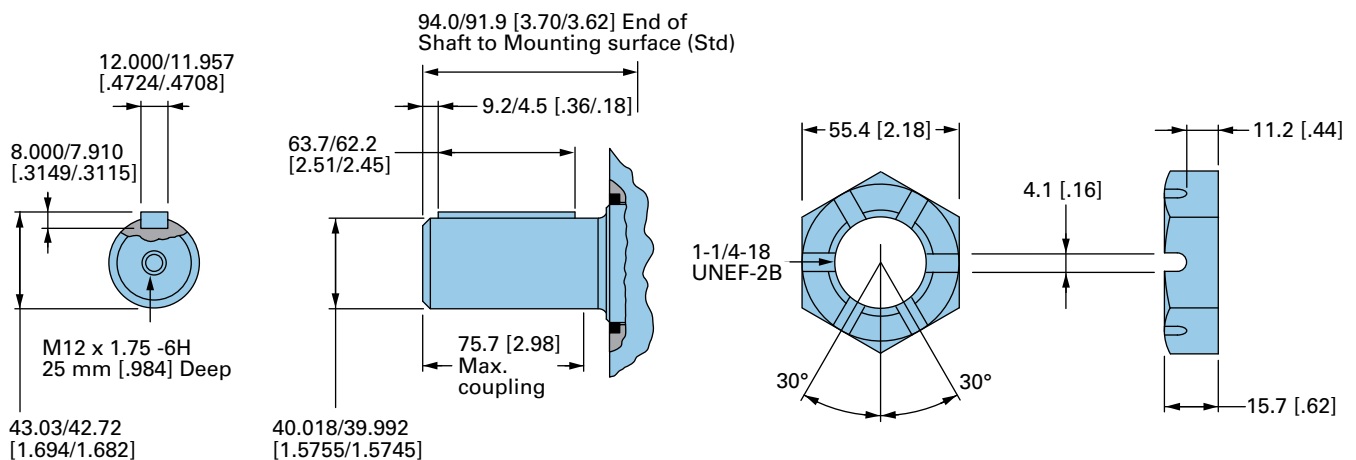


Tapered shaft hub data



Code: 04 40 mm Straight

1328 [11750] Max. Torque Nm [lb-in]



6000 Series

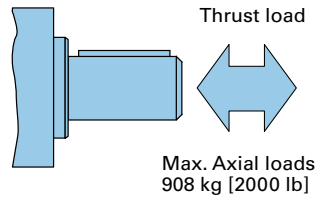
Shaft side load capacity

These curves indicate the radial load capacity on the motor shaft(s) at various locations with an external thrust load of 454 kg [1000 lb]. The maximum allowable thrust load is 908 kg [2000 lb].

Note: Case pressure will increase the allowable inward thrust load and decrease the allowable outward thrust load. Case pressure will push outward on the shaft at 109 kg/7 Bar [241 lb/100 PSI].

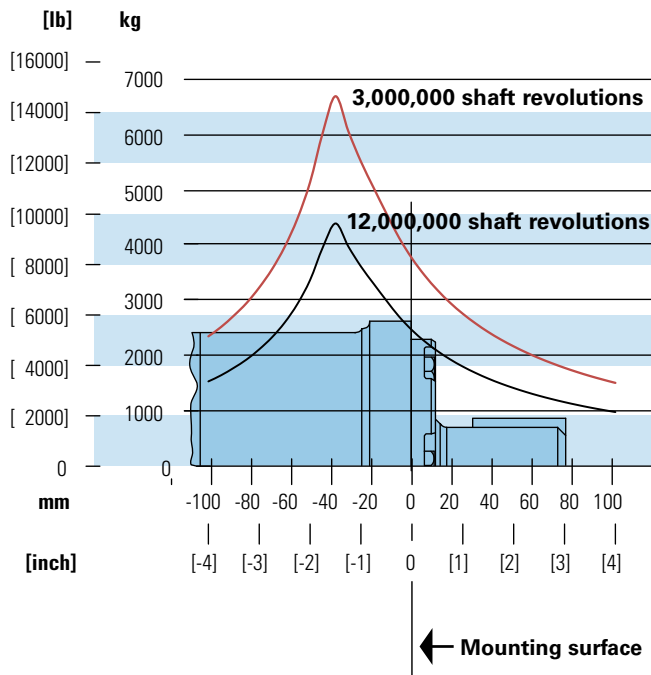
Each curve is based on B10 bearing life (2000 hours of 12,000,000 shaft revolutions at 100 RPM) at rated output torque.

To determine radial load at speeds other than 100 RPM, multiply the load values given on the bearing curve by the factors in the chart below.

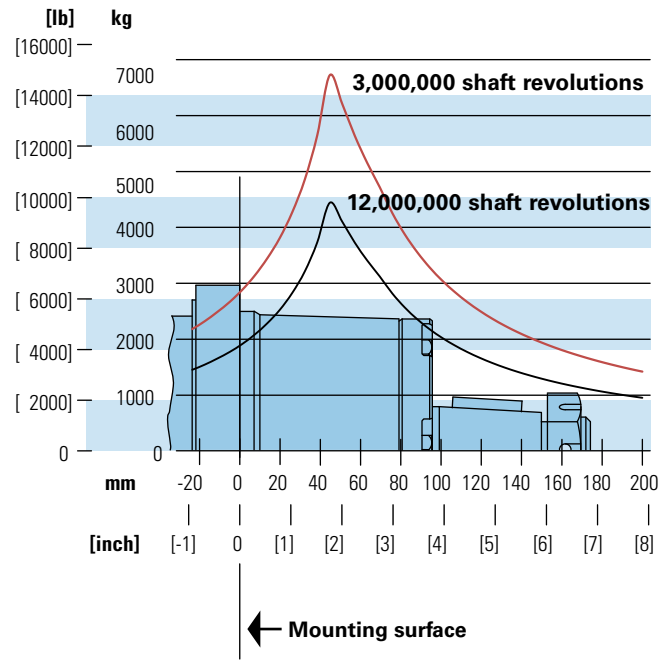


RPM	Multiplication factor
50	1.23
100	1.00
200	0.81
300	0.72
400	0.66
500	0.62
600	0.58
700	0.56
800	0.54

Standard motor straight and splined shafts



Wheel motor tapered shaft



C-5

Char-Lynn 6000 Series motors are durable and have long life as long as the recommended case pressure is not exceeded. Allowable case pressure is highest at low shaft speeds. Consequently, motor life will be shortened if case pressure exceeds these ratings (acceptability may vary with application). Determine if an external case drain is required from the case pressure seal limitation chart.

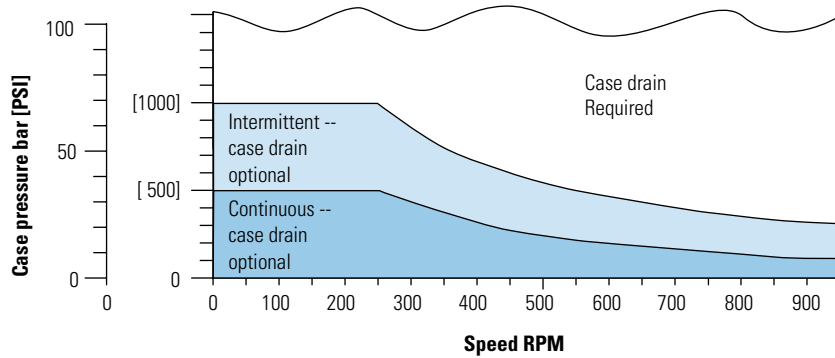
Case porting advantage

Contamination control — flushing the motor case.

Cooler motor — exiting oil draws motor heat away.

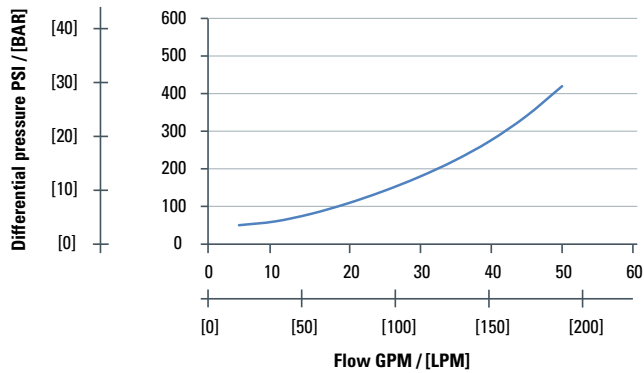
Extend motor seal life — maintain low case pressure with a preset restriction in the case drain line.

Case pressure seal limitation



C-5

6000 Series NLPD - No load pressure drop



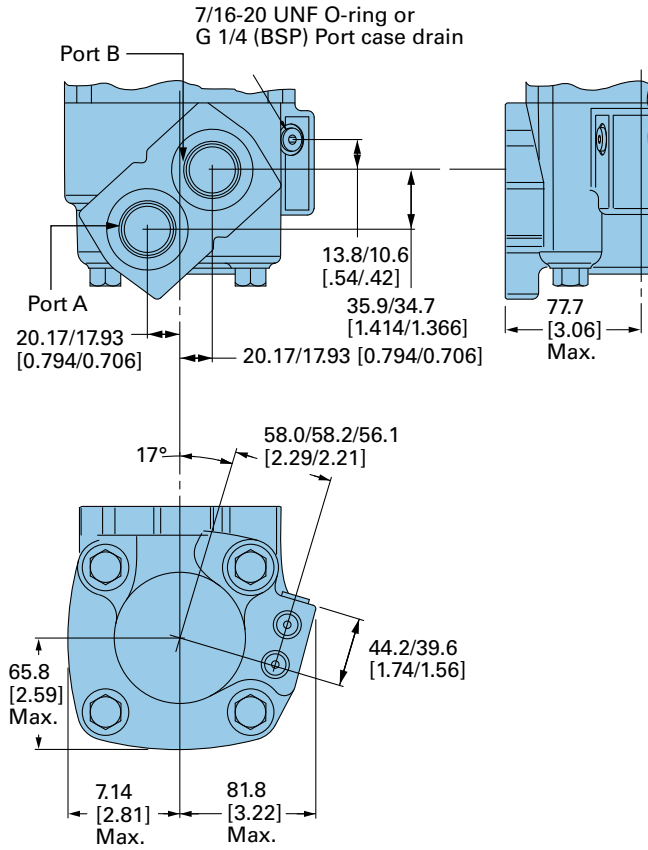
6000 Series

Dimensions

Ports

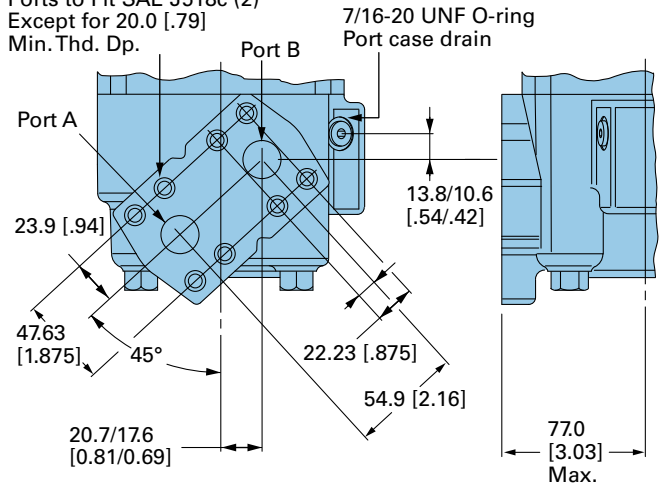
Code: AA 1-5/16-12 O-ring ports

Code: AC G 1 (BSP) ports

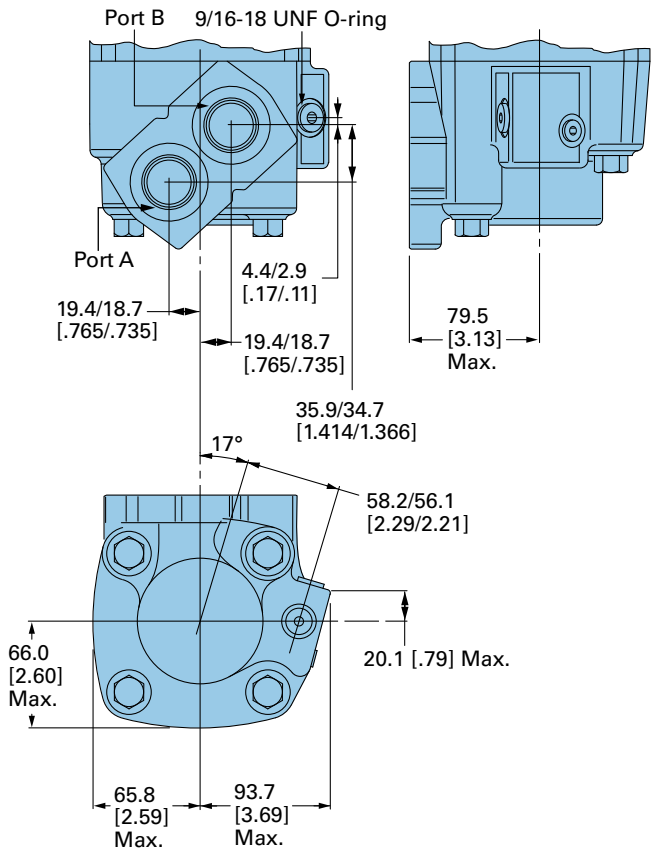


Code: AB 4 Bolt 3/4 Inch split flange

Ports to Fit SAE J518c (2)
Except for 20.0 [.79]
Min. Thd. Dp.



Code: AA 1 5/16 -12 O-ring ports (2) with shuttle



C-5

Note: For 6000 Series Motors with a configuration Not Shown in the charts above: Use model code number system on the next page to specify product in detail.

Use digit prefix — 112-, 113-, or 114 - plus four digit number from charts for complete product number— Example 114-1047.

Orders will not be accepted without three digit prefix.

Mounting	Shaft	Port size	Displ. cm ³ /r [in ³ /r] / product number								
			195 [11.9]	245 [15.0]	310 [19.0]	390 [23.9]	490 [30.0]	625 [38.0]	735* [45.0]	805* [49.0]	985 [60.0]
Standard	1 1/2 inch Straight	1 5/16 O-ring	112-1064	-1065	-1066	-1067	-1068	-1107	-1145	—	-1069
	40 mm Straight	G 1 (BSP)	112-1094	-1095	-1096	-1097	-1098	—	—	—	-1099
	1 1/2 Inch	1 5/16 O-ring	112-1058	-1059	-1060	-1061	-1062	-1109	-1163	—	-1063
	17 T Splined	G 1 (BSP)	112-1088	-1089	-1090	-1091	-1092	—	—	—	-1093
Wheel motor	40 mm Straight	G 1 (BSP)	113-1082	-1083	-1084	-1085	-1086	-1100	—	—	-1087
	1-3/4 Inch Tapered	1 5/16 O-ring	113-1070	-1071	-1072	-1073	-1074	-1093	—	—	-1075
Bearingless		1 5/16 O-ring	114-1031	-1032	-1033	-1034	-1035	-1055	—	—	-1036
		G 1 (BSP)	114-1043	-1044	-1045	-1046	-1047	—	—	—	-1048

*New release

↑
114-1047

Mounting type - Standard (Code AH), 4 Bolt:

- 160.0 [6.30] Pilot Dia.
- 18.01 [.709] Dia. Mounting holes
- 200.0 [7.87] Dia. Bolt circle

Use digit prefix — 112- plus four digit number from charts for complete product number— Example 112-1215.

Orders will not be accepted without three digit prefix.

C-5

Output shaft - straight (code 12)

Ports - G1 (BSP) staggered G 1/4 case drain Code: (AC & 03)

Paint - Low gloss black (code AA)

Mounting	Shaft	Port size	Displ. cm ³ /r [in ³ /r] / product number						
			310 [19.0]	390 [23.9]	490 [30.0]	625 [38.0]	735 [45.0]	805 [49.0]	985 [60.0]
Standard	50 mm Straight	G 1 (BSP)	112-1217	-1218	-1215	-1216	-1247	-1219	-1220

↑
112-1215

6000 Series

Model code

The following 30-digit coding system has been developed to identify all of the configuration options for the 6000 Series motor. Use this model code to specify a motor with the desired features. All 30-digits of the code must be present when ordering.

M	06	***	**	**	**	**	*	00	*	*	00	00	**	**	00	F													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

1	Product
M	Motor

2	3	Series
06	6000 Series	

4	5	6	Displacement cm³/r [in³/r]
120	195.8	[11.95]	
150	246.5	[15.04]	
190	312.0	[19.04]	
239	391.7	[23.90]	
300	491.4	[29.99]	
381	624.2	[38.09]	
450	737.4	[45.00]	
490	803.4	[49.03]	
600	982.7	[59.97]	

7	8	Mounting type
AA	Bearingless, 4 Bolt: 127,0 [5.00] Pilot Dia. and 14,35 [.565] Dia. Holes 162,0 [6.38] Dia. Bolt circle	
AB	Standard, 4 bolt (SAE CC): 127,0 [5.00] pilot Dia. and 14,35 [.565] Dia. Holes on 162,0 [6.38] Dia. B.C.	
AC	Wheel, 4 Bolt 139,7 [5.50] Pilot Dia. and 14,35 [.565] Dia. Holes on 184,2 [7.25] Dia. Bolt circle	
AH	Standard, 4 Bolt: 160.0 [6.30] pilot Dia. 18,01 [.709] Dia. Holes on 200.0 [7.87] Dia. Bolt circle.	
AL	Wheel, 4 Bolt: 160.0 [6.30] Pilot Dia. with 5.8 [.23] pilot length and 18.00 [.709] Dia. Holes on 200.0 [7.874] Bolt circle (ISO compatible)	

9	10	Output shaft description
00	None (Bearingless)	
01	38,10 [1.50] Dia. Straight shaft with .375-16 UNC-2B Thread in End, 9,52 [.375] Sq x 41,28 [1.625] straight key	
02	44,45 [1.75] Dia. .125:1 tapered shaft per SAE J501 with 1.25-18 UNEF-2A threaded shaft end, 11,11 [.4375] Sq. x 31,8 [1.25] straight key	
03	38,10 [1.50] Dia. Flat root side fit, 17 tooth, 12/24 DP 30 DEG. Involute spline with .375-16 UNC-2B thread in end 40.4 [1.59] minimum full spline length	
04	40,00 [1.575] Dia. Straight shaft with M12 x 1.75-6H thread in end, 12W x 8H x 63L [.472W x .313H x 2.480L] Key	
12	49,99 [1.968] Dia. Straight shaft with M12 x 1.75-6H thread in End, 14W x 9H x 70L [.550W x .354H x 2.756L] Key	

11	12	Ports description
AA	1.3125-12 UNF-2B SAE O-Ring ports--staggered ports	
AB	SAE 19.05 [.750] Dia. 4-Bolt split flange - staggered ports	
AC	G 1 Staggered Ports	
AG	.750-16 UNF-2B SAE O-ring ports - staggered	

13	14	Case flow
00	None	
02	.4375-20 UNF-2B SAE O-Ring port with check valve	
03	G 1/4 BSP straight thread port with check valve	
06	.5625-18 UNF-2B SAE O-Ring port with shuttle valve	

15	Low pressure relief
0	None
A	Set at 4.5 [65 lbf/in ²]
B	Set at 15.2 [220 lbf/in ²]

16	17	Pressure/flow option
00	None	

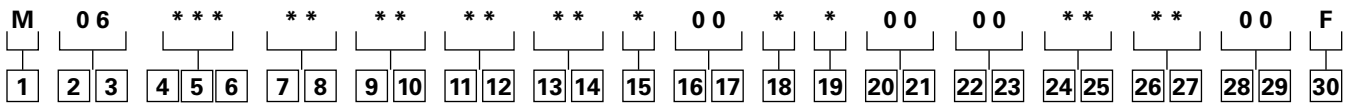
18	Geroler option
0	Standard
2	Tight fitting

19	Seal option
0	Standard
1	Viton
2	Viton Shaft Seal
3	Seal Guard
5	Heavy Duty Seal Guard
6	Extreme Duty Seal Guard

20	21	Accessories
00	None	

22	23	Special features (hardware)
00	None	

24	25	Special features (assembly)
00	None	
AA	Reverse rotation	



26 27

Paint/Packaging

- 00** No Paint, Individual box
- AA** Low gloss black primer
- AD** No Paint, Bulk box option
- AE** Low gloss black primer, Bulk box option
- AK** Epoxy coated black

See Eatonpowersource.com/ for more options and configurations.

28 29

Customer ID

- 00** None

30

Design code

- F** Sixth