

# GE-4M End suction centrifugal pump 4 pole



(Companion flanges are optional accessories)

## Applications

- Cold and hot water circulation
- Cooling water for building and factory equipments
- Agriculture
- Industry  
(Please inquire in case drinking water application)

## Features

- Easy maintenance and inspection due to back pull out construction
- Long life mechanical seal is adopted for shaft sealing
- Simple end suction top centerline discharge position enable steady installation with high discharge pipe loading
- Wide applications for various usages.
- Less vibration and quiet operation sound because of 4 pole motor revolution (1500min<sup>-1</sup>/50Hz, 1800min<sup>-1</sup>/60Hz)
- In accordance with Japanese Industrial Standard(JISB8313)
- Evaluated item of [horizontal centrifugal pump] by (C)Public Buildings Association., Ltd.

## Standard specifications

- Liquid Clean water 0 ~ 90°C
- Materials Impeller FC or CAC406 (BC6)  
Shaft SUS403 (portion contacting liquid), Casing FC
- Construction Impeller : Close  
Shaft sealing : Mechanical seal (Sic x Carbon)  
Bearing : Sealed ball bearing
- Installation Indoor
- Flange JIS 10K

## Standard accessories

Motor, Base, coupling, coupling cover, priming plug, wedge (more than bore 50x40 models)

## Maximum back pressure...Refer to Specification table

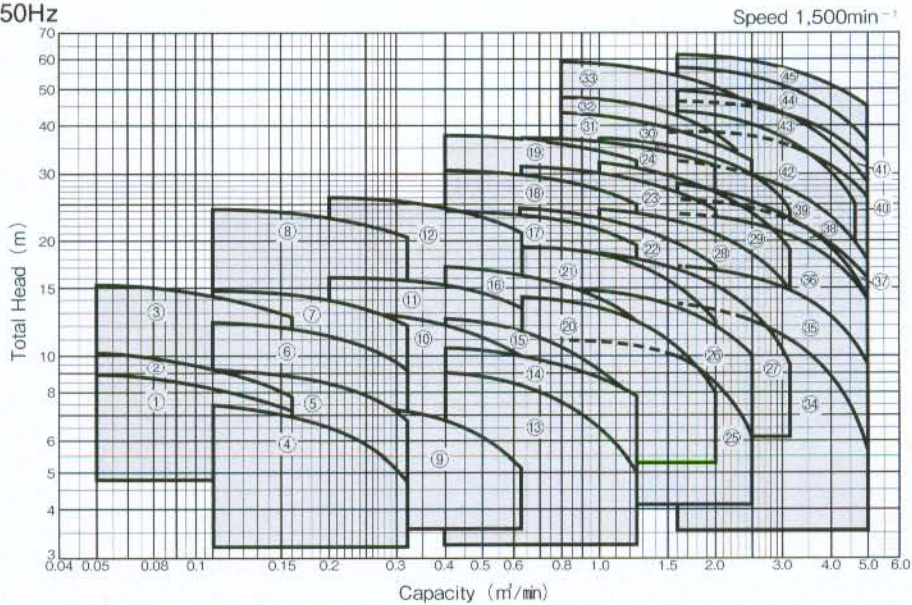
$$\left(0.98 - \frac{\text{Total head at zero flow (m)} \times 0.098}{10}\right) \text{MPa}$$

$$\left(10 - \frac{\text{Total head at zero flow (m)}}{10}\right) \text{kgf/cm}^2$$

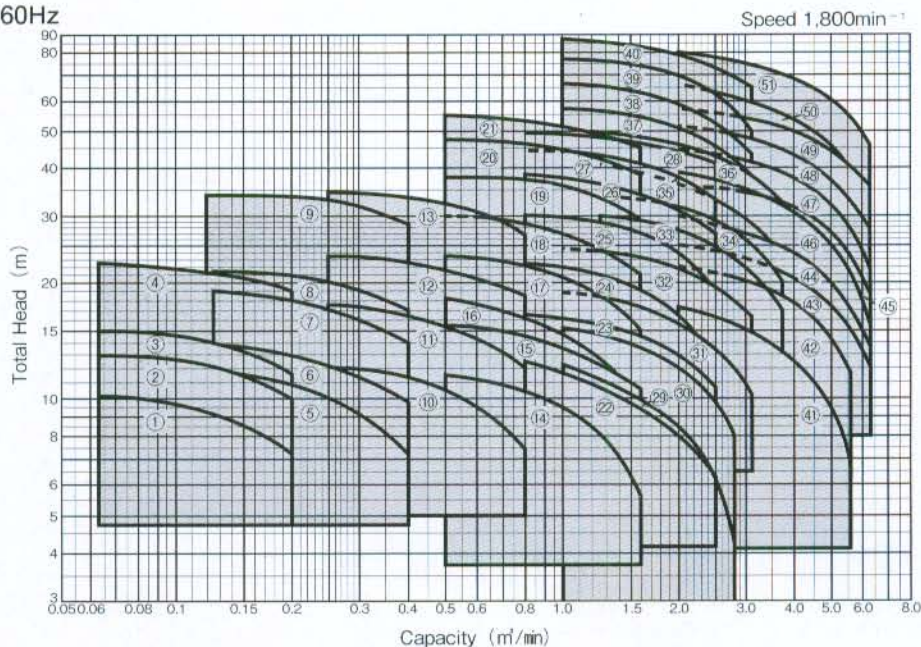
## Maximum suction head

50Hz : - 6m (GEJ-50×405M(G)-4MNO.4 : - 4.5m)  
          - 5m (GEJ-65×505M(G)-4M0.75 : - 5m)  
60Hz : - 6m (Bore 125×100mm below)  
          - 5.5m (Bore 150×125mm)

## Selection chart 50Hz



## Selection chart 60Hz



# GE-4M

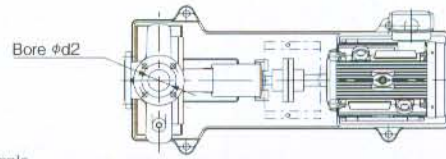
## ■ Specification & outline dimension table

Inquire specification sheets and drawings in case of actual work planning

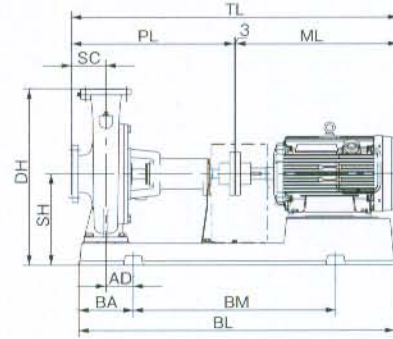
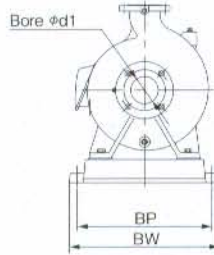
### ● GE-4M 50Hz

Flange : JIS 10K thick type

(Companion flanges are optional accessories)



The drawing shows example complete with TEFC motor



Hz	Suction Bore mm	Discharge Bore mm	P.C. No.	Model	Motor kW	Performance				Maximum Back pressure MPa (kgf/cm <sup>2</sup> )	Dimensions (mm)										Weight kg
						Capacity m <sup>3</sup> /min	Head m	Capacity m <sup>3</sup> /min	Head m		SC	BL	BA	BM	BP	BW	DH	SH	TL	AD	
40	32	1	GEJ-40 × 325M-4MN0.4	0.4	0.05	9	0.16	7.2	0.88	9.0	80	647	111	420	290	336	347	187	681	45	46
		2	GEK-40 × 325M-4MN0.4	0.4	0.05	10.2	0.16	7.8	0.86	8.8	80	654	112	420	290	336	395	215	681	45	53
		3	GEK-405M-4MN0.75	0.75	0.05	15.2	0.16	12.5	0.81	8.3	80	733	122	480	290	336	395	215	746	55	64
50	40	4	GEJ-50 × 405M-4MN0.4	0.4	0.1	7.5	0.32	4.8	0.89	9.1	80	647	111	420	290	336	347	187	681	45	47
		5	GEJ-505M-4MN0.75	0.75	0.1	9.2	0.32	6.8	0.88	9.0	80	727	121	480	290	336	347	187	741	55	54
		6	GEK-505M-4MN0.75	0.75	0.1	12.2	0.32	9.2	0.85	8.7	100	733	122	480	320	366	395	215	766	55	63
		7	GEK-505M-4MN1.5	1.5	0.1	14.8	0.32	12	0.82	8.4	100	731	122	480	320	366	395	215	778	55	69
		8	GEL-505M-4MN2.2	2.2	0.1	24.2	0.32	20.5	0.73	7.4	100	825	138	540	290	366	470	245	842	55	96
65	50	9	GEJ-655M-4MN0.75	0.75	0.2	8	0.63	5.2	0.89	9.1	100	733	122	480	320	366	395	215	766	55	66
		10	GEK-655M-4MN1.5	1.5	0.2	13	0.63	10	0.84	8.6	100	731	122	480	320	366	415	215	778	55	75
		11	GEK-655M-4MN2.2	2.2	0.2	16	0.63	13.2	0.8	8.2	100	731	122	480	320	366	425	225	819	55	81
		12	GEL-655M-4MN3.7	3.7	0.2	26	0.63	21	0.72	7.3	100	825	138	540	290	366	470	245	842	55	108
80	65	13	GEJ-805M-4MN1.5	1.5	0.4	9	1.25	5	0.87	8.9	100	732	122	480	350	396	415	215	778	40	72
		14	GEJ-805M-4MN2.2	2.2	0.4	10.5	1.25	7.8	0.86	8.8	100	822	138	540	350	396	425	225	839	55	85
		15	GEK-805M-4MN2.2	2.2	0.4	12.5	1.25	7.5	0.84	8.6	100	825	138	540	400	458	470	245	842	55	89
		16	GEK-805M-4MN3.7	3.7	0.4	17	1.25	12.2	0.79	8.1	100	823	138	540	400	458	470	245	840	55	104
		17	GEL-805M-4MN5.5	5.5	0.4	24.2	1.25	19.2	0.74	7.5	100	923	158	600	440	498	515	265	1001	60	129
		18	GEM-805M-4MN7.5	7.5	0.4	30.5	1.25	24.5	0.68	6.9	125	1029	180	660	490	548	590	310	1064	80	159
		19	GEM-805M-4MN11	11	0.4	38	1.25	32	0.6	6.1	125	1146	199	740	490	548	590	310	1172	100	197
100	80	20	GEK-1005M-4MN3.7	3.7	0.63	14.2	2.0	8	0.85	8.7	125	921	158	600	440	498	495	245	970	75	127
		21	GEL-1005M-4MN5.5	5.5	0.63	19.2	2.0	12.2	0.78	8.0	125	1029	180	660	490	548	590	310	1054	80	164
		22	GEL-1005M-4MN7.5	7.5	0.63	24	2.0	17	0.75	7.6	125	1029	180	660	490	548	590	310	1064	80	174
		23	GEM-1005M-4MN11	11	0.63	31	2.0	24	0.69	7.0	125	1146	199	740	490	548	650	335	1172	100	213
		24	GEM-1005M-4MN15	15	0.63	37	2.0	31	0.62	6.3	125	1146	199	740	490	548	650	335	1193	100	233
125	100	25	GEK-1255M-4MN3.7	3.7	0.8	11.8	2.5	6.2	0.84	8.6	125	927	158	600	440	498	545	265	970	60	144
		26	GEK-1255M-4MN5.5	5.5	0.8	15	2.5	10	0.81	8.3	125	923	158	600	440	498	545	265	1026	60	134
		27	GEL-1255BM-4MN7.5	7.5	1.0	18.5	3.1	10	0.80	8.2	140	1029	180	660	490	548	590	310	1079	80	179
		28	GEL-1255BM-4MN11	11	1.0	24	3.15	15.5	0.76	7.7	140	1146	199	740	490	548	590	310	1187	100	202
		29	GEM-1255BM-4MN15	15	1.0	32	3.15	19.5	0.66	6.7	140	1146	199	740	490	548	650	335	1208	100	245
		30	GEM-1255BM-4M18	18.5	1.0	37	3.15	24	0.62	6.3	140	1146	199	740	490	548	650	335	1190	100	293
		31	GEM-125 × 1005M-4M18	18.5	0.8	42.5	2.5	30.8	0.55	5.6	140	1146	199	740	490	548	650	335	1190	100	282
		32	GEO-1255M-4M22	22	0.8	47	2.5	31.5	0.52	5.3	140	1276	214	840	600	668	720	365	1297	95	422
		33	GEO-1255M-4M30	30	0.8	59	2.5	45	0.41	4.2	140	1276	214	840	600	668	720	365	1297	95	439
150	125	34	GEK-1505M-4MN7.5	7.5	1.6	13.5	5.0	4.8	0.85	8.7	140	1029	180	660	490	548	650	335	1079	80	172
		35	GEK-1505M-4MN11	11	1.6	17.2	5.0	9.5	0.82	8.4	140	1146	199	740	490	548	650	335	1187	100	213
		36	GEL-1505M-4MN15	15	1.6	23.5	5.0	13.5	0.76	7.8	140	1146	199	740	490	548	690	335	1208	100	246
		37	GEL-1505M-4M18	18.5	1.6	25.2	5.0	16	0.75	7.6	140	1146	199	740	490	548	690	335	1190	100	290
		38	GEM-1505M-4M18	18.5	1.6	28	5.0	13.5	0.69	7.0	140	1280	214	840	600	668	720	365	1301	95	367
		39	GEM-1505M-4M22	22	1.6	32	5.0	17.5	0.65	6.6	140	1276	214	840	600	668	720	365	1297	95	412
		40	GEM-1505M-4M30	30	1.6	39	5.0	26	0.58	5.9	140	1276	214	840	600	668	720	365	1297	95	429
		41	GEM-1505M-4M37	37	1.6	45.5	5.0	32	0.51	5.2	140	1276	214	840	600	668	720	365	1452	95	481
		42	GEO-1505M-4M30	30	1.6	44.5	4.6	25	0.54	5.5	140	1280	214	840	600	668	805	405	1301	95	476
		43	GEO-1505M-4M37	37	1.6	49.5	5.0	28	0.49	5.0	140	1280	214	840	600	668	805	405	1452	95	553
		44	GEO-1505M-4M45	45	1.6	56.5	5.0	35	0.42	4.3	140	1280	214	840	600	668	805	405	1452	95	561
		45	GEO-1505M-4M55	55	1.6	61	5.0	45	0.38	3.9	140	1280	214	840	600	668	805	405	1493	95	610

※ BP, BW : upper ... pump side dimension, lower ... motor side dimension

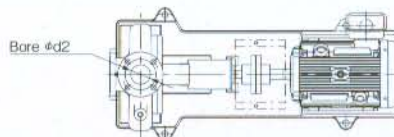
## Specification & outline dimension table

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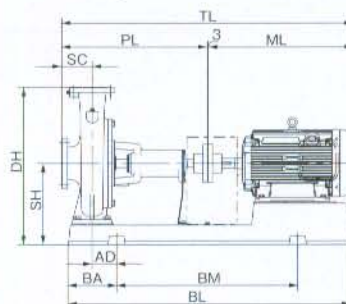
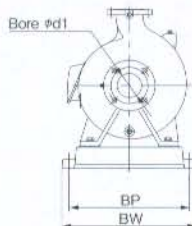
● GE-4M 50Hz

Flange : JIS 10K thick type

(Companion flanges are optional accessories)



The drawing shows example complete with TEFC motor



Hz	Suction Bore mm	Discharge Bore mm	Ref No.	Model	Motor		Performance		Maximum		Dimensions (mm)										Weight kg	
					kW	m <sup>3</sup> /min	m	m <sup>3</sup> /min	m	MPa	[kgf/cm <sup>2</sup> ]	SC	BL	BA	BM	BP	BW	DH	SH	TL		AD
40	32	1	GEJ-40×326M-4MN0.4	0.4	0.063	10.2	0.2	7.2	0.86	[8.8]	80	647	111	420	298	336	347	187	681	45	47	
		2	GEJ-406M-4MN0.75	0.75	0.063	13	0.2	10	0.84	[8.6]	80	727	121	480	298	336	347	187	741	55	54	
		3	GEK-406M-4MN0.75	0.75	0.063	15	0.2	11.5	0.81	[8.3]	80	733	122	480	290	336	395	215	746	55	63	
		4	GEK-406M-4MN1.5	1.5	0.063	22.5	0.2	19	0.74	[7.5]	80	734	123	480	290	336	405	225	758	55	69	
50	40	5	GEJ-506M-4MN0.75	0.75	0.125	11.8	0.4	7.2	0.85	[8.7]	80	727	121	480	298	336	347	187	741	55	54	
		6	GEJ-506M-4MN1.5	1.5	0.125	13.8	0.4	9.8	0.83	[8.5]	80	722	120	480	290	336	347	187	758	55	59	
		7	GEK-506M-4MN1.5	1.5	0.125	19	0.4	14	0.77	[7.9]	100	731	122	480	320	366	395	215	778	55	69	
		8	GEK-506M-4MN2.2	2.2	0.125	21.5	0.4	17	0.75	[7.6]	100	731	122	480	320	366	405	225	819	55	77	
		9	GEL-506M-4MN3.7	3.7	0.12	34.5	0.4	28.5	0.62	[6.3]	100	825	138	540	330	378	470	245	842	55	106	
65	50	10	GEJ-656M-4MN1.5	1.5	0.25	12.5	0.8	7.5	0.84	[8.6]	100	731	122	480	320	366	395	215	778	55	72	
		11	GEK-656M-4MN2.2	2.2	0.25	17.5	0.8	12	0.78	[8.0]	100	731	122	480	320	366	425	225	819	55	83	
		12	GEK-656M-4MN3.7	3.7	0.25	23.2	0.8	18.5	0.74	[7.5]	100	821	138	540	320	366	425	225	853	70	106	
		13	GEL-656M-4MN5.5	5.5	0.25	34.5	0.8	27	0.63	[6.4]	100	825	140	540	330	378	490	265	891	55	108	
80	65	14	GEJ-806M-4MN2.2	2.2	0.5	11.5	1.6	5.5	0.84	[8.6]	100	822	138	540	350	396	425	225	839	55	85	
		15	GEJ-806M-4MN3.7	3.7	0.5	15.2	1.6	10.5	0.81	[8.3]	100	823	139	540	350	396	437	237	839	55	100	
		16	GEK-806M-4MN3.7	3.7	0.5	18.2	1.6	9.5	0.78	[8.0]	100	823	138	540	330	378	470	245	840	55	104	
		17	GEK-806M-4MN5.5	5.5	0.5	23.2	1.6	15.2	0.74	[7.5]	100	825	140	540	330	378	490	265	891	55	97	
		18	GEL-806M-4MN7.5	7.5	0.5	30	1.6	21	0.68	[6.9]	100	1029	179	660	340	488	535	285	1039	80	146	
		19	GEL-806M-4MN11	11	0.5	37.5	1.6	29.5	0.6	[6.1]	100	1140	199	740	440	498	535	285	1141	100	169	
		20	GEM-806M-4MN15	15	0.5	48	1.6	38	0.49	[5.0]	125	1146	199	740	480	548	590	310	1193	100	208	
		21	GEM-80×656M-4M18	18.5	0.5	54.5	1.6	45	0.43	[4.4]	125	1146	199	740	480	548	590	310	1175	100	252	
60	100	22	GEJ-1006M-4MN3.7	3.7	0.8	12.5	2.5	6.2	0.86	[8.7]	125	823	138	540	350	378	470	245	865	55	110	
		23	GEJ-1006M-4MN5.5	5.5	0.8	16.5	2.5	10.5	0.83	[8.5]	125	825	140	540	330	378	490	265	916	55	117	
		24	GEK-1006M-4MN7.5	7.5	0.8	22.5	2.5	13	0.77	[7.9]	125	1021	178	660	440	498	495	245	1064	95	138	
		25	GEL-1006M-4MN11	11	0.8	30	2.5	19	0.66	[6.7]	125	1146	199	740	480	548	590	310	1172	100	199	
		26	GEL-1006M-4MN15	15	0.8	38	2.5	27	0.6	[6.1]	125	1146	199	740	480	548	590	310	1193	100	220	
		27	GEM-1006M-4M18	18.5	0.8	44.5	2.5	33	0.55	[5.6]	125	1146	199	740	480	548	650	335	1175	100	276	
		28	GEM-1006M-4M22	22	0.8	49.5	2.5	39	0.5	[5.1]	125	1146	199	740	490	548	650	335	1207	100	331	
		125	100	29	GEJ-1256M-4MN3.7	3.7	1.0	12.2	2.8	4.2	0.84	[8.6]	125	927	158	600	440	498	515	265	970	60
30	GEJ-1256M-4MN5.5			5.5	1.0	15.2	2.8	8	0.81	[8.3]	125	923	158	600	440	498	515	265	1026	60	123	
31	GEK-1256M-4MN7.5			7.5	1.0	19	3.15	9.8	0.77	[7.9]	125	1026	179	660	450	498	565	285	1064	80	148	
32	GEK-1256M-4MN11			11	1.0	24.2	3.15	16.2	0.73	[7.4]	125	1140	199	740	440	498	565	285	1166	100	178	
33	GEL-1256BM-4MN15			15	1.25	30	3.8	16.5	0.69	[7.0]	140	1146	199	740	480	548	590	310	1208	100	228	
34	GEL-1256BM-4M18			18.5	1.25	34	3.8	21.5	0.65	[6.6]	140	1146	199	740	480	548	590	310	1190	100	274	
35	GEM-1256BM-4M22			22	1.25	41.5	3.8	23.5	0.56	[5.7]	140	1146	199	740	490	548	650	335	1222	100	347	
36	GEM-1256BM-4M30			30	1.25	51	3.8	32.5	0.47	[4.7]	140	1146	199	740	480	548	650	335	1222	100	362	
37	GEM-125×1006M-4M30			30	1.0	57	3.15	37.5	0.4	[4.1]	140	1146	199	740	490	548	650	335	1222	100	357	
38	GEO-1256M-4M37			37	1.0	67	3.15	44	0.32	[3.3]	140	1276	214	840	490	558	720	365	1452	95	486	
39	GEO-1256M-4M45			45	1.0	77	3.15	55	0.23	[2.3]	140	1276	214	840	490	558	720	365	1452	95	507	
40	GEO-1256M-4M55			55	1.0	86	3.15	66	0.14	[1.4]	140	1276	214	840	490	558	720	365	1493	95	560	
150	125	41	GEK-1506M-4MN11	11	2.0	17.2	5.6	6.2	0.81	[8.3]	140	1146	199	740	460	548	650	335	1187	100	213	
		42	GEK-1506M-4MN15	15	2.0	22	5.6	11.8	0.77	[7.9]	140	1146	199	740	460	548	650	335	1208	100	224	
		43	GEK-1506M-4M18	18.5	2.0	24.8	6.3	12	0.75	[7.7]	140	1146	199	740	490	548	650	335	1190	100	268	
		44	GEL-1506M-4M22	22	2.0	30	6.3	12.5	0.7	[7.1]	140	1146	199	740	490	548	690	335	1222	100	357	
		45	GEL-1506M-4M30	30	2.0	36	6.3	18.5	0.64	[6.5]	140	1146	199	740	490	548	690	335	1222	100	384	
		46	GEM-1506M-4M30	30	2.0	39	6.3	14	0.56	[5.7]	140	1276	214	840	490	558	720	365	1297	95	426	
		47	GEM-1506M-4M37	37	2.0	45	6.3	21.5	0.51	[5.2]	140	1276	214	840	490	558	720	365	1452	95	476	
		48	GEM-1506M-4M45	45	2.0	51	6.3	27.5	0.46	[4.7]	140	1276	214	840	490	558	720	365	1452	95	497	
		49	GEM-1506M-4M55	55	2.0	57	6.3	35.5	0.40	[4.1]	140	1276	214	840	490	558	720	365	1493	95	550	
		50	GEO-1506M-4M55	55	2.0	66	5.6	38	0.32	[3.3]	140	1280	214	840	490	558	805	405	1493	95	608	
		51	GEO-1506M-4M75	75	2.0	80	6.3	46	0.19	[1.9]	140	1432	241	940	490	570	820	420	1540	120	738	

※ BP, BW : upper ... pump side dimension, lower ... motor side dimension