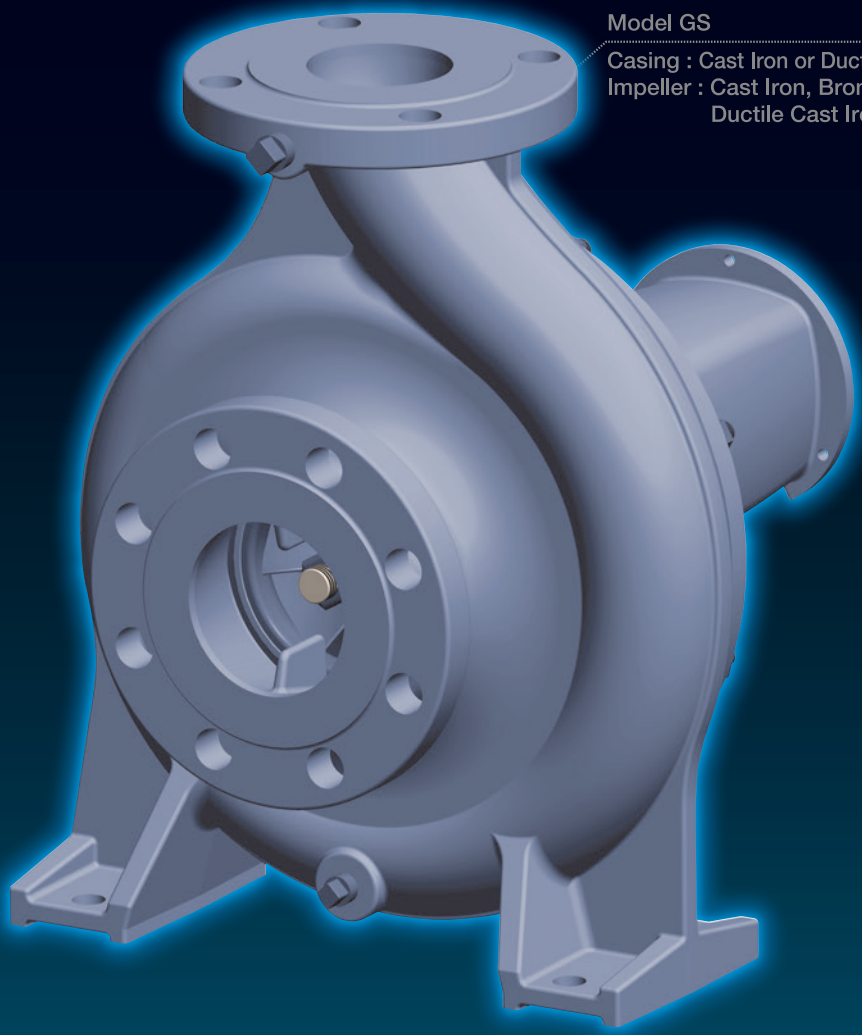
EBARA

END SUCTION VOLUTE PUMP
Model GS/GSS

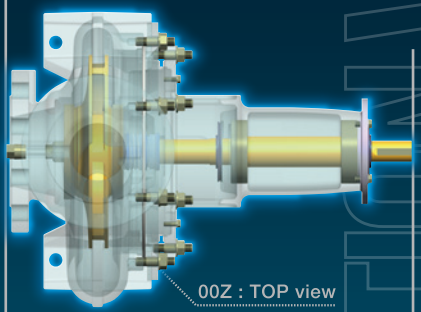


Model GS

Casing : Cast Iron or Ductile Cast Iron
Impeller : Cast Iron, Bronze or
Ductile Cast Iron

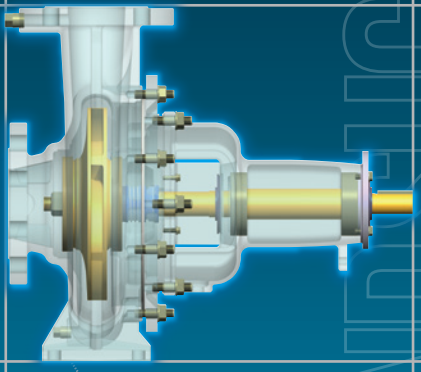
Mode GSS

Casing : 304/316 Stainless Steel
Impeller : 304/316 Stainless Steel



00Z : TOP view

00X : FRONT view



00Y : SIDE view

EBARA Corporation, Tokyo

Series Name : GS

Model : GS / GSS

Applicable Standard : EN733

"Model GS/GSS " in this catalog is our model code.

END SUCTION VOLUTE PUMP

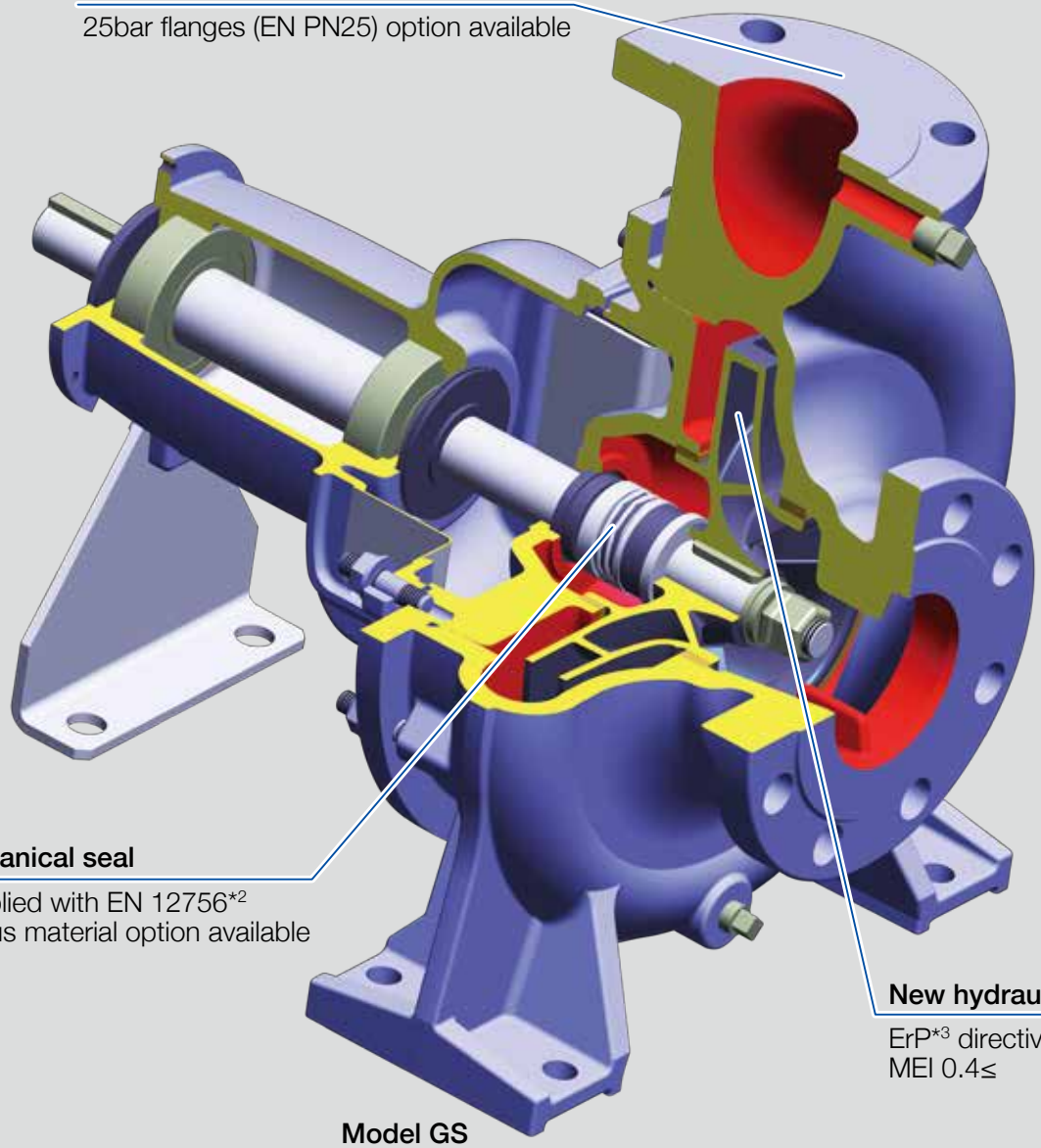
GS SERIES PUMPS

Standardized pumps

The European Standard EN733*1 complied

DIN 16bar flanges (EN PN16)

25bar flanges (EN PN25) option available



Mechanical seal

Complied with EN 12756*2
Various material option available

New hydraulic design

ErP*3 directive complied
MEI 0.4≤

Model GS

EN733*1 : End-suction centrifugal pumps, rating with 10 bar with bearing bracket - Nominal duty point, main dimensions, designation system

EN 12756*2 : Mechanical seals. Principal dimensions, designation and material codes

ErP*3 : Eco-design requirements of Energy-related Products

EBARA reserves the right to make changes without prior notice.

PRODUCT FEATURES

1 ENERGY-SAVING DESIGN

- World top class pump efficiency achieved.
- Major improvement over our previous models by impeller designed using our proprietary 3D inverse design technology.
- Higher efficiency means lower energy consumption and motor output, and more compact size.

2 SIMPLE MAINTENANCE

- Back pull-out structure enables disassembly and inspection without removal of suction and discharge piping.
- Shield bearings eliminate need for adding or exchanging lubricating oil.
- Shaft seal flushing and quenching piping not required for the standard application.
- Air-bleeding not required.
- Simplified bearings and shaft seal enable easy assembly.

3 PUMP SPECIFICATIONS

- Maximum operating pressure: 25 bar
- Liquid temperature range expansion:-25°C to 140°C
- Compatible with multiple flange standards.
- Able to meet customer specifications with many combinations of shaft seals and materials.

4 INTERNATIONAL STANDARDS

- Pump dimensions adopt EN733
- Mechanical seal adopts EN12756
- Protector fitted in accordance with EN294.

PUMP GENERAL SPECIFICATION

MODEL GS

Casing Material: **Cast Iron**

Description		
Liquid temperature		**-10°C to ~~140~~°C 120 °C**
Max. Operating Pressure		**Up to 16bar(1.6MPa) / for standard flange DIN-PN16** Up to 14bar(1.4MPa) / for standard flange JIS10K
Flange Standard		**EN1092-2** , JIS B 2239
Construction	Impeller	**Closed**
	Shaft seal	**Mechanical Seal , Gland Packing**
	Flushing	**N/A** , Self , External
	Ball bearing	**Shield ball bearing (grease lubrication)**
Material (*3)	Casing	**Cast iron**
	Impeller	**Cast iron or Ductile cast irons** (*1) **Bronze** , 304 Stainless steel
	Shaft	**Cr.steel** , Duplex stainless steel (*2)
	Case wear ring	**Bronze** , Cast iron
	Shaft sleeve	**N/A** , 304 Stainless steel (Gland packing or some mechanical seal)
	O-ring	**NBR** , FKM , EPDM

Bold characters are applied for standard specification

(*1) Impellers made of ductile cast iron are applied only the pumps model GS100-400, 125-400, 125-500, 150-400, 150-500, 200-400 and 200-500.

(*2) Wetted part only

(*3) Please see P24 and P25 for specific materials

MODEL GS

Casing Material: **Ductile Cast Irons (Larger than pump model 100X80)**

Description		
Liquid temperature		**-10°C to 140°C**
Max. Operating Pressure		**Up to 25bar(2.5MPa) / for standard flange DIN-PN25** Up to 25bar(2.5MPa) / for standard flange JIS20K
Flange Standard		**EN1092-2** , JIS B 2239
Construction	Impeller	**Closed**
	Shaft seal	**Mechanical Seal**
	Flushing	**N/A** , Self , External
	Ball bearing	**Shield ball bearing (grease lubrication)**
Material (*3)	Casing	**Ductile cast irons**
	Impeller	**Cast iron or Ductile cast irons** (*1) **Bronze** , 304 Stainless steel
	Shaft	**Cr.steel** , Duplex stainless steel (*2)
	Case wear ring	**Bronze** , Cast iron
	Shaft sleeve	**N/A** , 304 Stainless steel (in case of some mechanical seal)
	O-ring	**NBR** , FKM , EPDM

Bold characters are applied for standard specification

(*1) Impellers made of ductile cast iron are applied only the pumps model GS100-400, 125-400, 125-500, 150-400, 150-500, 200-400 and 200-500.

(*2) Wetted part only

(*3) Please see P24 and P25 for specific materials

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PUMP GENERAL SPECIFICATION

MODEL GSS

Casing Material: **Stainless Steel**

Description		
Liquid temperature		**-10°C to 140°C**
Max. Operating Pressure		**Up to 16bar(1.6MPa) / for standard flange DIN-PN16** Up to 14bar(1.4MPa) / for standard flange JIS10K
Flange Standard		**EN1092-2** , JIS B 2239
Construction	Impeller	**Closed**
	Shaft seal	**Mechanical Seal , Gland Packing**
	Flushing	**N/A** , Self , External
	Ball bearing	**Shield ball bearing (grease lubrication)**
Material (*2)	Casing	**304 Stainless steel** , 316 Stainless steel
	Impeller	**304 Stainless steel** , 316 Stainless steel
	Shaft	**Duplex stainless steel** (*1)
	Case wear ring	**316 Stainless steel**
	Shaft sleeve	**N/A** , 304/316 Stainless steel (in case of Gland packing or some mechanical seal)
	O-ring	**FKM** , EPDM

Bold characters are applied for standard specification

(*1) Wetted part only

(*2) Please see P24 and P25 for specific materials

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APPLICATIONS

BUILDING

- **Air conditioning-District heating & cooling**
  General water supply
  Brine (antifreeze liquid)
  Hot water circulation
  High pressure booster

WATER SUPPLY

- **Water supply duties for municipalities**
- **Irrigation**
- **Drainage clean water**
- **Fire fighting protection**
- **Swimming pool**

GENERAL INDUSTRY

- **Semiconductor Industry**
  Pure water
- **Food Industry**
  General water (Cooling water, Recycling water, Filtered water)
  CIP (Cleaning In Place)
- **Pulp and Paper Industry**
  White water (bellow pulp conc.of 0.3%)
- **Automotive Industry**
  Water (without slurry)
- **Steel Industry-Non-ferrous metals Industry**
  Coolant
  Cooling Water
- **Garbage incineration**
  Cooling Water
  Deaerater
  Condensate water
- **Other Chemical**
- **Diesel Oil, Fuel Oil, Lubricants Oil**

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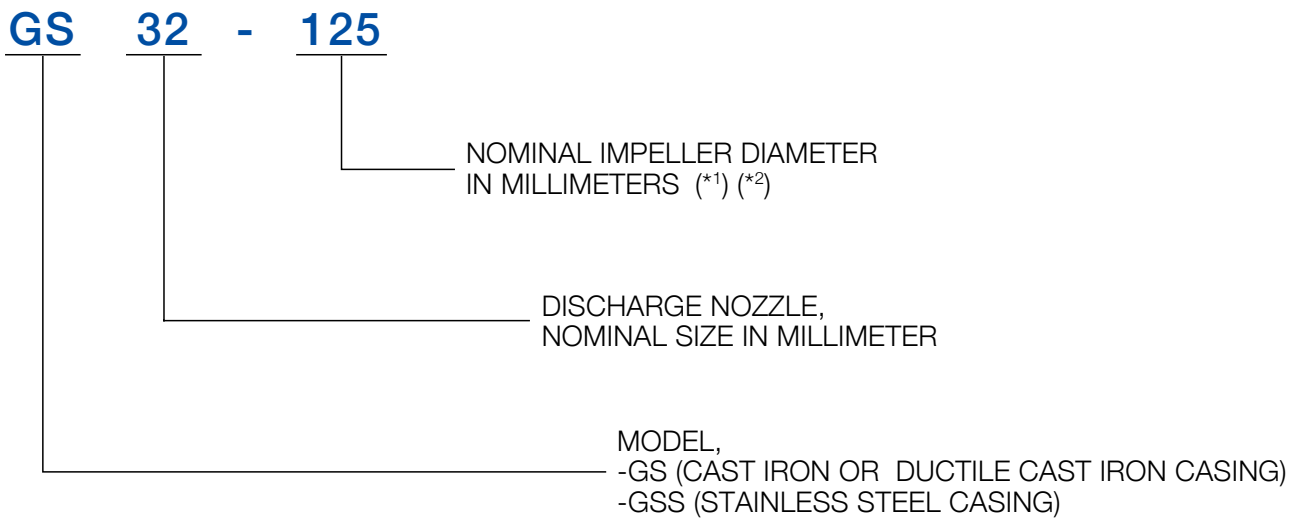
MODEL CODE

The following designation is system according to EN733.

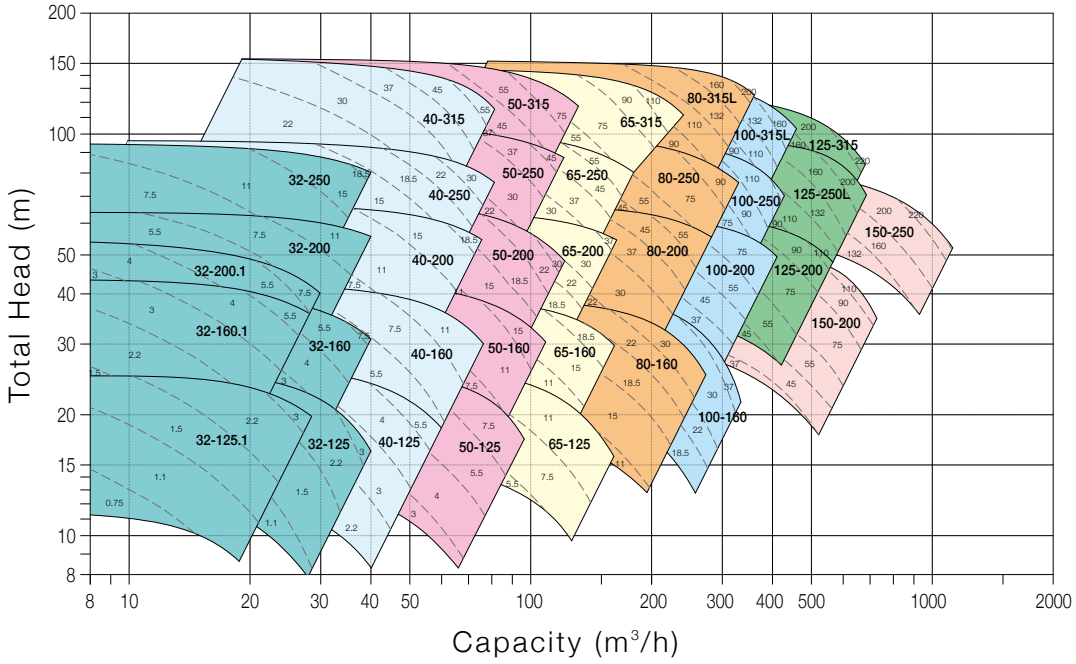


(*1) The letter “L” following the impeller classification code indicates different bearing designs. To give an example, GS80-315 and GS80-315L have different bearing designs and shaft size.

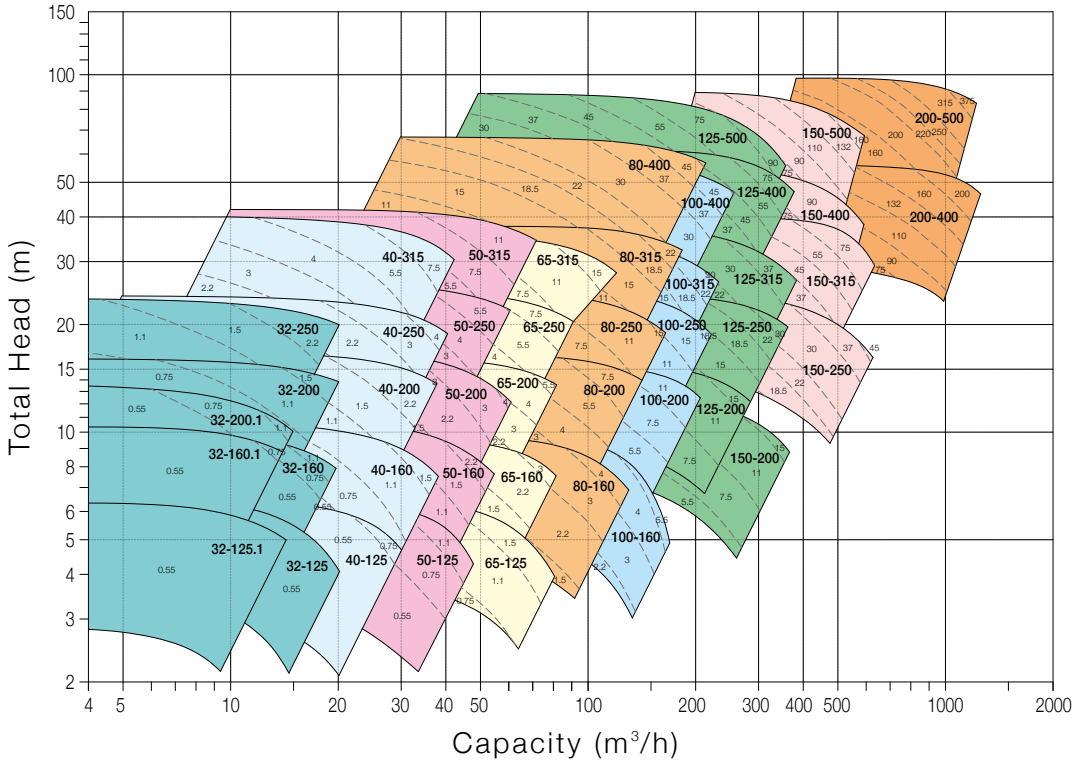
(*2) The letter “.1” following the impeller classification code indicates different casing and impeller designs. To give an example, GS32-125 and GS32-125.1 have different casing and impeller designs from one another.

PERFORMANCE CHART

Model GS 2P/50Hz



Model GS 4P/50Hz



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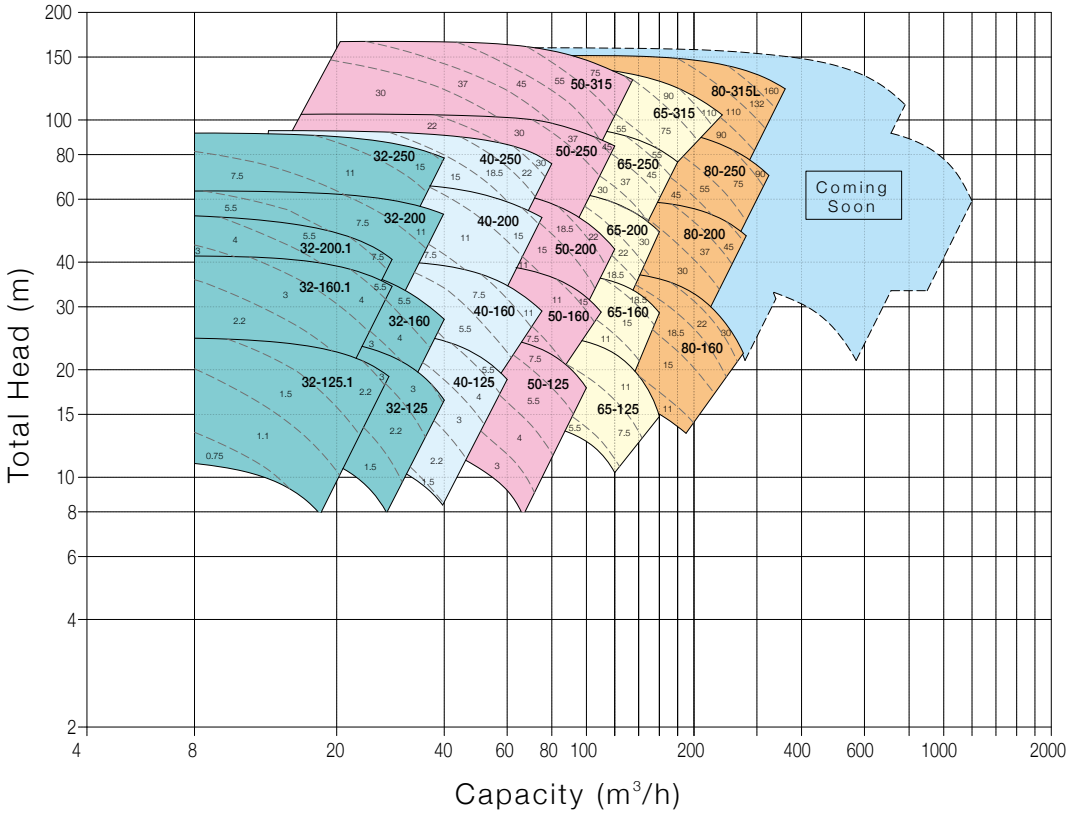
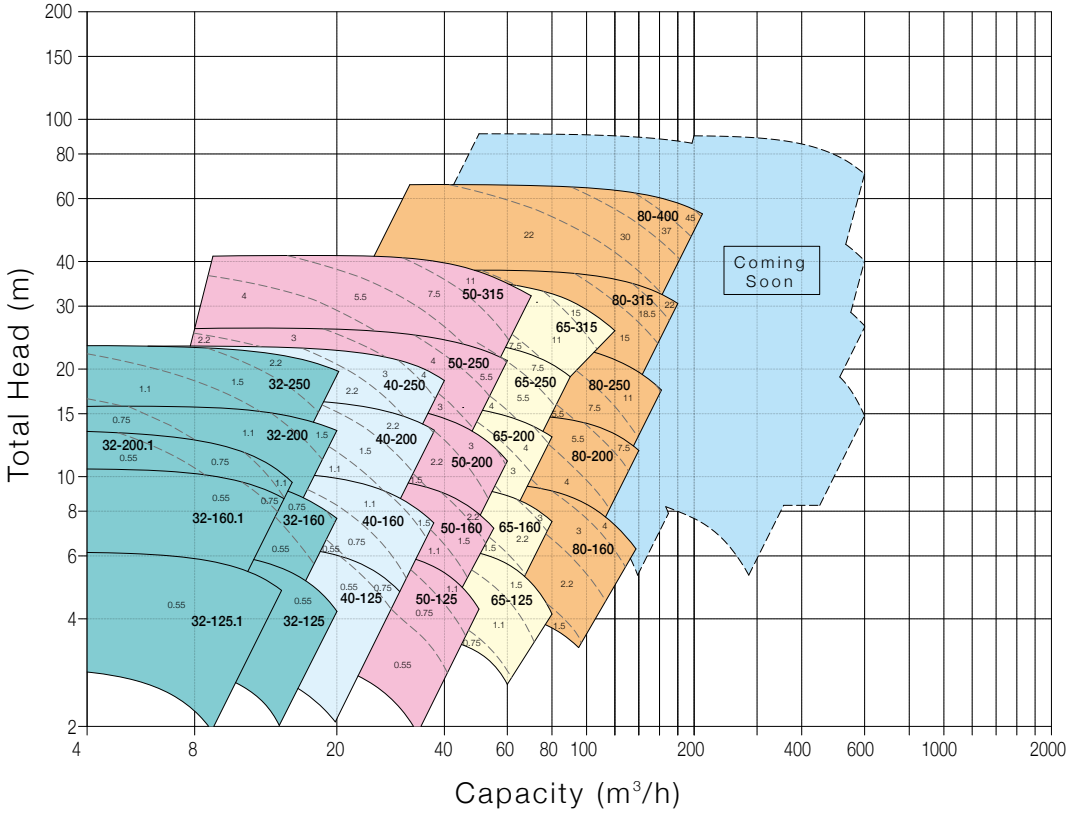
PERFORMANCE CHART

Model GSS 2P/50Hz

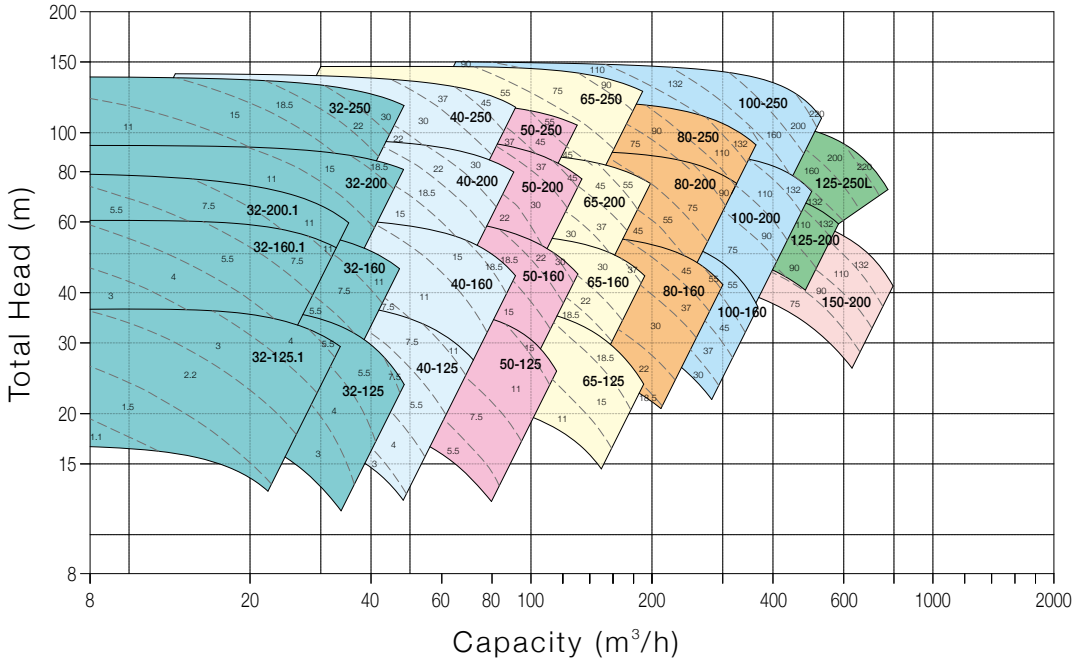


Model GSS 4P/50Hz

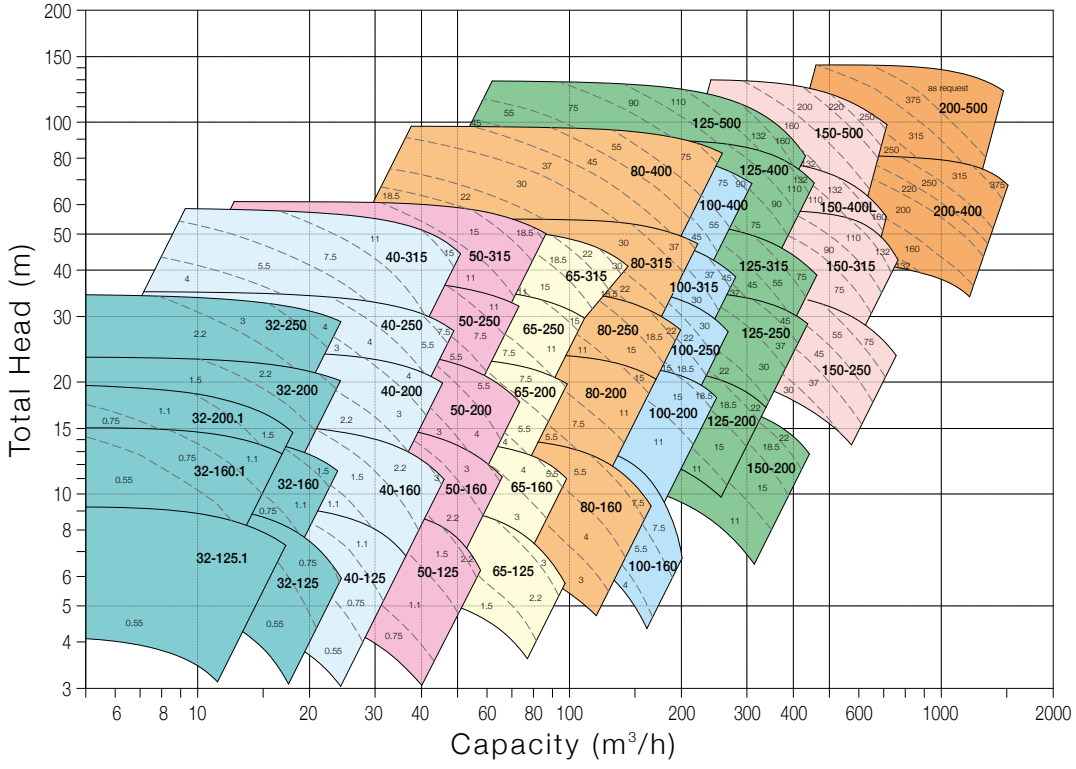


PERFORMANCE CHART

Model GS 2P/60Hz



Model GS 4P/60Hz

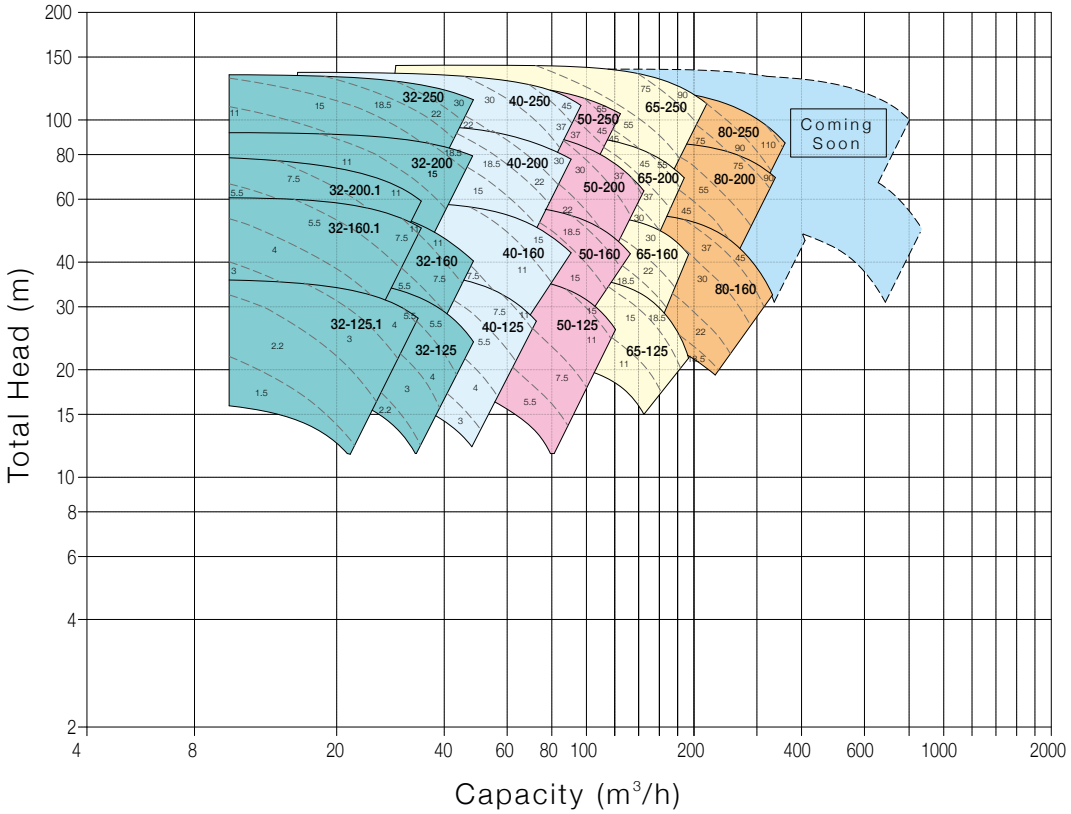


EBARA

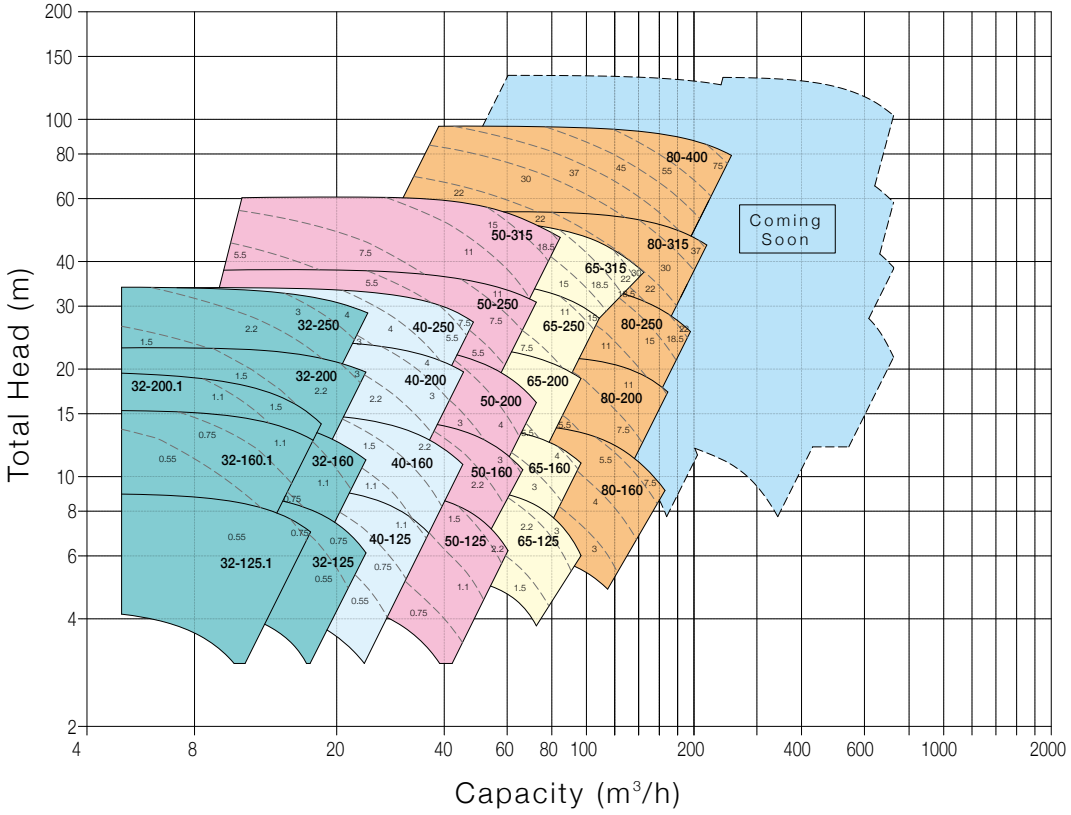
EBARA reserves the right to make changes without prior notice.

PERFORMANCE CHART

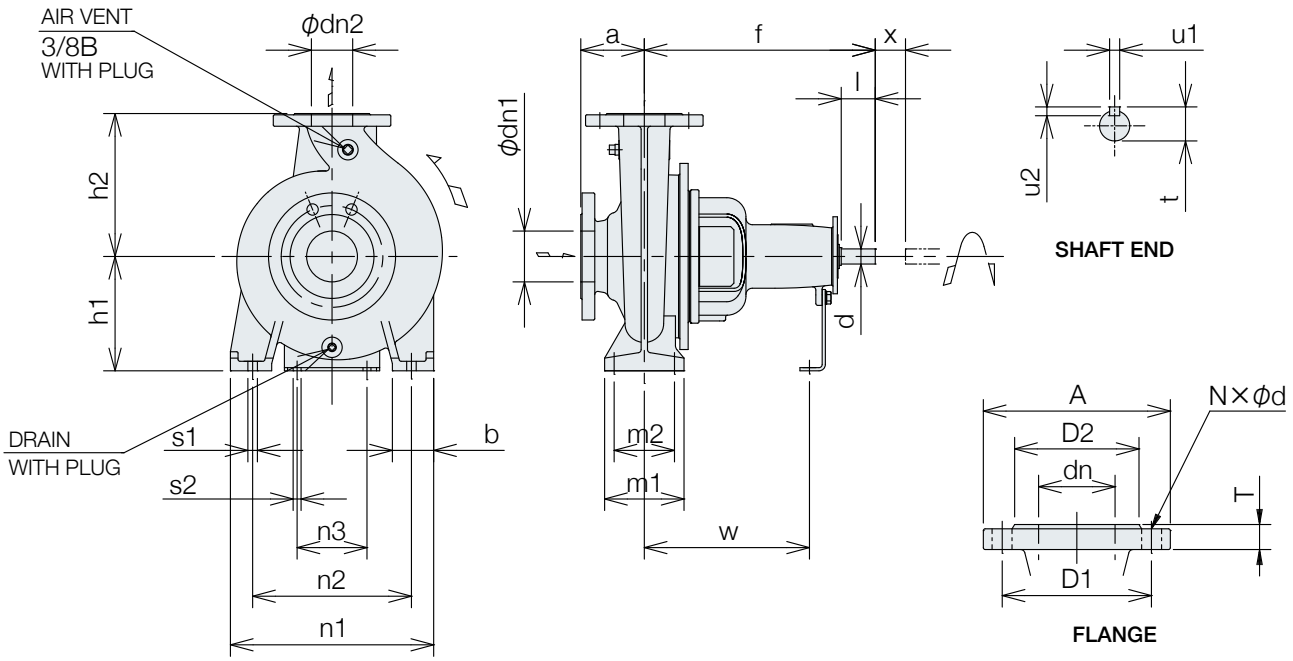
Model GSS 2P/60Hz



Model GSS 4P/60Hz



DIMENSIONS



Flange Dimension

Material: Cast Iron

Flange Standard: **EN PN16**

Unit: mm

MODEL	Suction flange							Discharge flange						
	dn1	A	D1	D2	T	N	d	dn2	A	D1	D2	T	N	d
GS32	50	165	125	99	20	4	19	32	140	100	76	18	4	19
GS40	65	185	145	118	20	4	19	40	150	110	84	18	4	19
GS50	65	185	145	118	20	4	19	50	165	125	99	20	4	19
GS65	80	200	160	132	22	8	19	65	185	145	118	20	4	19
GS80	100	220	180	156	24	8	19	80	200	160	132	22	8	19
GS100	125	250	210	184	26	8	19	100	220	180	156	24	8	19
GS125	150	285	240	211	26	8	23	125	250	210	184	26	8	19
GS150	200	340	295	266	30	12	23	150	285	240	211	26	8	23
GS200	250	405	355	319	32	12	28	200	340	295	266	30	12	23

Flange Standard: **JIS 10K**

Unit: mm

MODEL	Suction flange							Discharge flange						
	dn1	A	D1	D2	T	N	d	dn2	A	D1	D2	T	N	d
GS32	50	155	120	96	20	4	19	32	135	100	76	20	4	19
GS40	65	175	140	116	22	4	19	40	140	105	81	20	4	19
GS50	65	175	140	116	22	4	19	50	155	120	96	20	4	19
GS65	80	185	150	126	22	8	19	65	175	140	116	22	4	19
GS80	100	210	175	151	24	8	19	80	185	150	126	22	8	19
GS100	125	250	210	182	24	8	23	100	210	175	151	24	8	19
GS125	150	280	240	212	26	8	23	125	250	210	182	24	8	23
GS150	200	330	290	262	26	12	23	150	280	240	212	26	8	23
GS200	250	400	355	324	30	12	25	200	330	290	262	26	12	23

Material: Ductile Cast Iron

Flange Standard: **EN PN25**

Unit: mm

MODEL	Suction flange							Discharge flange						
	dn1	A	D1	D2	T	N	d	dn2	A	D1	D2	T	N	d
GS80	100	235	190	156	19	8	23	80	200	160	132	19	8	19
GS100	125	270	220	184	19	8	28	100	235	190	156	19	8	23
GS125	150	300	250	211	20	8	28	125	270	220	184	19	8	28
GS150	200	360	310	274	22	12	28	150	300	250	211	20	8	28
GS200	250	425	370	330	24.5	12	31	200	360	310	274	22	12	28

Flange Standard: **JIS 20K**

Unit: mm

MODEL	Suction flange							Discharge flange						
	dn1	A	D1	D2	T	N	d	dn2	A	D1	D2	T	N	d
GS80	100	225	185	160	24	8	23	80	200	160	132	22	8	23
GS100	125	270	225	195	26	8	25	100	225	185	160	24	8	23
GS125	150	305	260	230	28	12	25	125	270	225	195	26	8	25
GS150	200	350	305	275	30	12	25	150	305	260	230	28	12	25
GS200	250	430	380	345	34	12	27	200	350	305	275	30	12	25

EBARA reserves the right to make changes without prior notice.

DIMENSIONS

Dimensions of Bare Shaft Pump

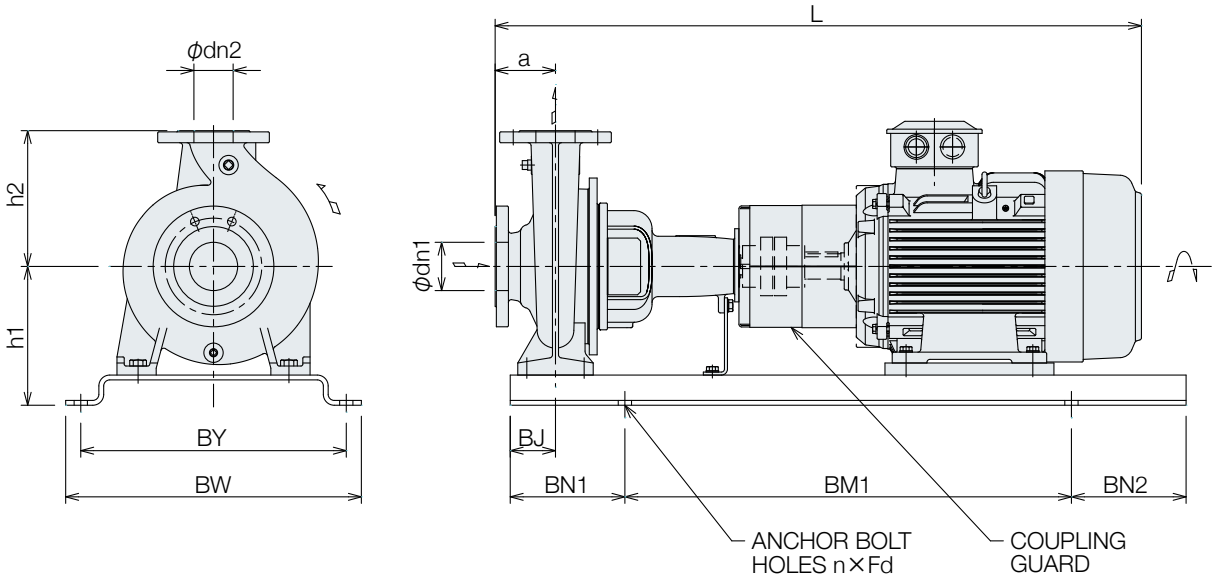
Unit: mm

MODEL	Nominal Diameter		Pump					Support									Shaft end					1)	Weight kg	
	dn1	dn2	a	f	h1	h2	DRAIN PLUG	b	m1	m2	n1	n2	n3	W	s1	s2	d	l	t	u1	u2	X	GS	GSS
32-125.1	50	32	80	360	112	140	1/4B	50	100	70	190	140	110	260	M12	M12	24	50	27	8	7	100	28	30
32-125																						100	28	27
32-160.1					132	160					240	190										100	29	28
32-160																						100	29	28
32-200.1					160	180																100	39	38
32-200																						100	39	37
32-250			100		180	225		65	125	95	320	250										100	46	46
40-125	65	40	80	360	112	140	1/4B	50	100	70	210	160	110	260	-	M12	24	50	27	8	7	100	30	29
40-160					132	160					240	190										100	31	30
40-200			100		160	180					265	212										100	41	40
40-250					180	225		65	125	95	320	250										100	48	48
40-315			125	470	225	250					345	280		340			32	80	35	10	8	100	82	83
50-125	65	50	100	360	132	160	1/4B	50	100	70	240	190	110	260	M12	M12	24	50	27	8	7	100	33	34
50-160					160	180					265	212										100	33	33
50-200					160	200																100	44	43
50-250					180	225		65	125	95	320	250										100	50	49
50-315			125	470	225	280					345	280		340			32	80	35	10	8	100	86	86
65-125	80	65	100	360	160	180	1/4B	65	125	95	280	212	110	260	M12	M12	24	50	27	8	7	100	37	37
65-160						200																100	41	43
65-200					180	225					320	250										140	47	45
65-250				470	200	250		80	160	120	360	280		340	M16		32	80	35	10	8	140	73	72
65-315			125		225	280					400	315										140	90	89
80-160	100	80	125	360	180	225	1/4B	65	125	95	320	250	110	260	M12	M12	24	50	27	8	7	140	46	48
80-200				470		250					345	280		340			32	80	35	10	8	140	67	67
80-250					200	280		80	160	120	400	315			M16							140	77	77
80-315					250	315																140	101	102
80-315L				530										370			42	110	45	12		140	112	112
80-400					280	355					435	355										140	162	160
100-160	125	100	125	470	200	250	3/8B	80	160	120	360	280	110	340	M16	M12	32	80	35	10	8	140	91	future
100-200						280																140	103	
100-250			140		225						400	315										140	108	
100-250L				530										370			42	110	45	12		140	120	
100-315				470	250	315								340			32	80	35	10		140	109	
100-315L				530										370			42	110	45	12		140	134	
100-400					280	355		100	200	150	500	400			M20							140	189	
125-200	150	125	140	470	250	315	3/8B	80	160	120	400	315	110	340	M16	M12	32	80	35	10	8	140	120	future
125-250						355																140	131	
125-250L				530										370			42	110	45	12		140	148	
125-315					280						500	400			M20							140	176	
125-400			140		315	400		100	200	150												140	218	
125-500			180	670	375	450					550	450	140	500		M16	48		51.5	14	9	140	365	
150-200	200	150	160	470	280	355	3/8B	100	200	150	500	400	110	340	M20	M12	32	80	35	10	8	140	154	future
150-250				530		375								370			42	110	45	12		140	171	
150-315					315	400					550	450										140	225	
150-400						450	1/2B															140	339	
150-400L				670									140	500		M16	48		51.5	14	9	140	363	
150-500			180		375	560											60		64	18	11	180	491	
200-400	250	200	180	670	385	560	1/2B	100	315	250	660	560	140	500	M20	M16	60	110	64	18	11	180	508	future
200-500			200	820	435	630							160	630	M24		75	125	79.5	20	12	180	645	

1) Dimension to be considered by the manufacturer in respect of removal of inner parts of the Pump. The dimension X must not be idential with the distance between the shafts of the pump and the driving machine. The given dimension considers the use of flexible shaft couplings with spacer sleeve. The gap is necessary for the withdrawal of the rotor toward the driven side.

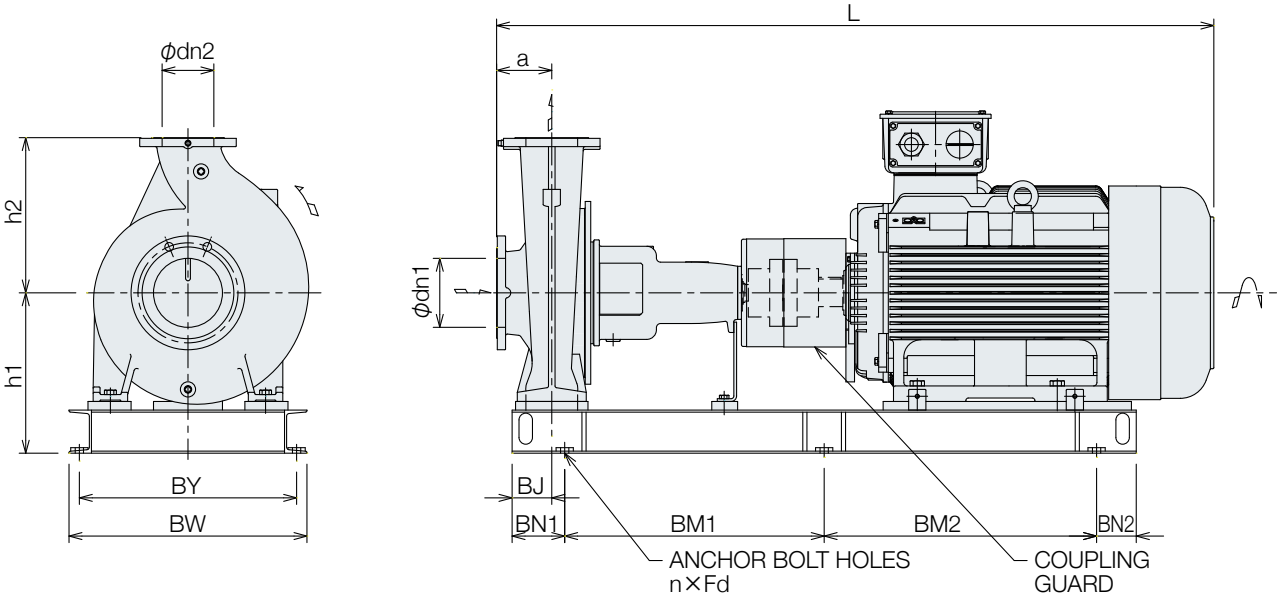
DIMENSIONS

Model GS/GSS with Motor ISO BASE (Fig. A)



*This base is not necessary to grout.
Special base can be provided for grouting.

CHANNEL BASE (Fig. B)



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DIMENSIONS

DIMENSION-Model GS/GSS Pump with Moter-2P 50Hz/60Hz

Model	Pole	Hz		Power	Fig	Size		Pump				Motor※		Base									Total (Approx.)		
		50	60	kW		dn1	dn2	a	h2	wt(kg)		Frame	wt(kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	wt(kg)	L	Weight kg
										GS	GSS														GS / GSS
32-125.1	2	✓		0.75	A	50	32	80	140	28	30	80M	16.5	162	60	540	–	130	130	320	360	4xM16	21	736	76 / 78
		✓	✓	1.1								80M	18												78 / 80
		✓	✓	1.5								90S	23											787	82 / 84
		✓	✓	2.2								90L	27											812	87 / 89
		✓	✓	3								100L	37.5											835	98 / 100
			✓	4								112M	47.5							350	390		23	855	110 / 112
			✓	5.5								132S	61	182		600		150	150				25	909	132 / 134
32-125	2	✓		0.75	A	50	32	80	140	28	27	80M	16.5	162	60	540	–	130	130	320	360	4xM16	21	736	76 / 75
		✓		1.1								80M	18												78 / 77
		✓	✓	1.5								90S	23											787	82 / 81
		✓	✓	2.2								90L	27											812	87 / 86
		✓	✓	3								100L	37.5											835	98 / 97
		✓	✓	4								112M	47.5											855	110 / 109
			✓	5.5								132S	61	182		600		150	150	350	390		25	909	132 / 131
			✓	7.5								132S	65												136 / 135
32-160.1	2	✓		1.5	A	50	32	80	160	29	28	90S	23	182	60	540	–	130	130	350	390	4xM16	23	787	88 / 87
		✓		2.2								90L	27											812	92 / 91
		✓	✓	3								100L	37.5											835	105 / 104
		✓	✓	4								112M	47.5											855	114 / 113
		✓	✓	5.5								132S	61			600		150	150				25	909	131 / 130
			✓	7.5								132S	65												136 / 135
			✓	11								160M	105	210		660		170	170	400	450	4xM20	32	1051	189 / 188
32-160	2	✓		2.2	A	50	32	80	160	29	28	90L	27	182	60	540	–	130	130	350	390	4xM16	23	812	92 / 91
		✓		3								100L	37.5											835	105 / 104
		✓	✓	4								112M	47.5											855	114 / 113
		✓	✓	5.5								132S	61			600		150	150				25	909	131 / 130
		✓	✓	7.5								132S	65												136 / 135
			✓	11								160M	105	210		660		170	170	400	450	4xM20	32	1051	189 / 188
			✓	15								160M	120												206 / 205
32-200.1	2	✓		3	A	50	32	80	180	39	38	100L	37.5	210	60	540	–	130	130	350	390	4xM16	23	835	117 / 116
		✓		4								112M	47.5											855	129 / 128
		✓	✓	5.5								132S	61			600		150	150				25	909	145 / 144
		✓	✓	7.5								132S	65												150 / 149
			✓	11								160M	105			660		170	170	400	450	4xM20	32	1051	199 / 198
			✓	15								160M	120												215 / 214
32-200	2	✓		5.5	A	50	32	80	180	39	37	132S	61	210	60	600	–	150	150	350	390	4xM16	25	909	145 / 143
		✓		7.5								132S	65												150 / 148
		✓	✓	11								160M	105			660		170	170	400	450	4xM20	32	1051	199 / 197
		✓	✓	15								160M	120												215 / 213
			✓	18.5								160L	135											1095	232 / 230
			✓	22								180M	175	230						440	490		35	1116	282 / 280
32-250	2	✓		7.5	A	50	32	100	225	46	46	132S	65	230	75	600	–	150	150	440	490	4xM20	31	929	169 / 169
		✓	✓	11								160M	105											1071	215 / 215
		✓	✓	15								160M	120			660		170	170				35		231 / 231
		✓	✓	18.5								160L	135											1115	248 / 248
			✓	22								180M	175											1136	288 / 288
			✓	30								200L	240	250		740		190	190	490	540		42	1234	370 / 370
40-125	2	✓		1.5	A	65	40	80	140	30	29	90S	23	162	60	540	–	130	130	320	360	4xM16	21	787	84 / 83
		✓		2.2								90L	27											812	89 / 88
		✓	✓	3								100L	37.5											835	100 / 99
		✓	✓	4								112M	47.5											855	112 / 111
		✓	✓	5.5								132S	61	182		600		150	150	350	390		25	909	134 / 133
			✓	7.5								132S	65												138 / 137
			✓	11								160M	105	210		660		170	170	400	450	4xM20	32	1051	192 / 191
40-160	2	✓		4	A	65	40	80	160	31	30	112M	47.5	182	60	540	–	130	130	350	390	4xM16	23	855	116 / 115
		✓	✓	5.5								132S	61			600		150	150				25	909	134 / 133
		✓	✓	7.5								132S	65												138 / 137
		✓	✓	11								160M	105												192 / 191
			✓	15								160M	120	210		660		170	170	400	450	4xM20	32	1051	208 / 207
			✓	18.5								160L	135											1095	225 / 224
40-200	2	✓		7.5	A	65	40	100	180	41	40	132S	65	210	60	600	–	150	150	350	390	4xM16	25	929	152 / 151
		✓		11								160M	105			660		170	170	400	450	4xM20	32	1071	201 / 200
		✓	✓	15								160M	120												217 / 216
		✓	✓	18.5								160L	135											1115	234 / 233
			✓	22								180M	175	230						440	490		35	1136	284 / 283
			✓	30								200L	240	250		740		190	190	490	540		42	1234	369 / 368
			✓	37								200L	270												402 / 401
40-250	2	✓		11	A	65	40	100	225	48	48	160M	105	230	75	660	–	170	170	440	490	4xM20	35	1071	217 / 217
		✓		15								160M	120												233 / 233
		✓		18.5								160L	135											1115	250 / 250
		✓	✓	22								180M	175											1136	291 / 291
		✓	✓	30								200L	240	250		740		190	190	490	540		42	1234	376 / 376
			✓	37								200L	270												409 / 409
			✓	45								225MA	315	300		840		205	205	550	610	4xM24	66	1275	488 / 488
			✓	55								250MA	405	325		940		230	230	600	660		79	1385	609 / 609
40-315	2	✓		22	A	65	40	125	250	82	83	180M	175	275	75	840	–	205	205	490	540	4xM20	47	1271	355 / 356
		✓		30								200L	240											1369	425 / 426
		✓		37								200L	270												458 / 459
		✓		45								225MA	315	300						550	610		66	1410	520 / 521
		✓		55								250MA	405	325		940		230	230	600	660	4xM24	79	1520	641 / 642
		✓		75								280SA	515	380		1060		270	270	670	730		104	1636	802 / 803

DIMENSIONS

Model	Pole	Hz		Power	Fig	Size		Pump				Motor※		Base									Total (Approx.)		
		50	60	kW		dn1	dn2	a	h2	wt(kg)		Frame	wt(kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	wt(kg)	L	Weight kg	
										GS	GSS														GS	GSS
50–125	2	✓		2.2	A	65	50	100	160	33	34	90L	27	182	60	540	–	130	130	350	390	4xM16	23	832	97	98
		✓		3								100L	37.5											855	110	111
		✓	✓	4								112M	47.5											875	118	119
		✓	✓	5.5								132S	61			600		150	150				25	929	136	137
		✓	✓	7.5								132S	65												140	141
		✓	✓	11								160M	105	210		660		170	170	400	450	4xM20	32	1071	194	195
			✓	15								160M	120												210	211
50–160	2	✓		5.5	A	65	50	100	180	33	33	132S	61	210	60	600	–	150	150	350	390	4xM16	25	929	139	139
		✓	✓	7.5								132S	65												143	143
		✓	✓	11								160M	105			660		170	170	400	450	4xM20	32	1071	192	192
		✓	✓	15								160M	120												209	209
			✓	18.5								160L	135											1115	225	225
			✓	22								180M	175	230						440	490		35	1136	275	275
			✓	30								200L	240	250		740		190	190	490	540		42	1234	360	360
50–200	2	✓		11	A	65	50	100	200	44	43	160M	105	210	60	660	–	170	170	400	450	4xM20	32	1071	204	203
		✓		15								160M	120												221	220
		✓	✓	18.5								160L	135											1115	237	236
		✓	✓	22								180M	175	230						440	490		35	1136	287	286
		✓	✓	30								200L	240	250		740		190	190	490	540		42	1234	372	371
			✓	37								200L	270												405	404
			✓	45								225MA	315	300		840		205	205	550	610	4xM24	66	1275	482	481
50–250	2	✓		22	A	65	50	100	225	50	49	180M	175	230	75	660	–	170	170	440	490	4xM20	35	1136	293	292
		✓	✓	30								200L	240	250		740		190	190	490	540		42	1234	378	377
		✓	✓	37								200L	270												411	410
		✓	✓	45								225MA	315	300		840		205	205	550	610	4xM24	66	1275	490	489
			✓	55								250MA	405	325		940		230	230	600	660		79	1385	611	610
50–315	2	✓		30	A	65	50	125	280	86	86	200L	240	275	75	840	–	205	205	490	540	4xM20	47	1369	430	430
		✓		37								200L	270												463	463
		✓		45								225MA	315	300						550	610		66	1410	524	524
		✓		55								250MA	405	325		940		230	230	600	660	4xM24	79	1520	645	645
		✓		75								280SA	515	380		1060		270	270	670	730		104	1636	797	797
		✓		90								280MA	552											1686	847	847
65–125	2	✓		4	A	80	65	100	180	37	37	112M	47.5	210	75	540	–	130	130	400	450	4xM20	26	875	130	130
		✓		5.5								132S	61			660		170	170				32	929	151	151
		✓	✓	7.5								132S	65												155	155
		✓	✓	11								160M	105											1071	196	196
			✓	15								160M	120												213	213
			✓	18.5								160L	135											1115	229	229
			✓	22								180M	175	230						440	490		35	1136	281	281
65–160	2	✓		7.5	A	80	65	100	200	41	43	132S	65	210	75	660	–	170	170	400	450	4xM20	32	929	160	162
		✓	✓	11								160M	105											1071	201	203
		✓	✓	15								160M	120												217	219
		✓	✓	18.5								160L	135											1115	234	236
		✓	✓	22								180M	175	230						440	490		35	1136	285	287
			✓	30								200L	240	250		740		190	190	490	540		42	1234	370	372
			✓	37								200L	270												403	405
65–200	2	✓		11	A	80	65	100	225	47	45	160M	105	230	75	660	–	170	170	440	490	4xM20	35	1071	216	214
		✓		15								160M	120												232	230
		✓		18.5								160L	135											1115	249	247
		✓	✓	22								180M	175											1136	289	287
		✓	✓	30								200L	240	250		740		190	190	490	540		42	1234	375	373
		✓	✓	37								200L	270												408	406
			✓	45								225MA	315	300		840		205	205	550	610	4xM24	66	1275	486	484
			✓	55								250MA	405	325		940		230	230	600	660		79	1385	608	606
65–250	2	✓		22	A	80	65	100	250	73	72	180M	175	250	90	840	–	205	205	490	540	4xM20	47	1246	337	336
		✓		30								200L	240											1344	407	406
		✓		37								200L	270												440	439
		✓	✓	45								225MA	315	300						550	610		66	1385	514	513
		✓	✓	55								250MA	405	325		940		230	230	600	660	4xM24	79	1495	637	636
		✓	✓	75								280SA	515	380		1060		270	270	670	730		104	1611	791	790
			✓	90								280MA	552											1661	832	831
			✓	110	B							315SA	800	465	120	680	680	120	120	630	690	6xM20	175	1790	1160	1159
65–315	2	✓		55	A	80	65	125	280	90	89	250MA	405	325	90	940	–	230	230	600	660	4xM24	79	1520	651	650
		✓		75								280SA	515	380		1060		270	270	670	730		104	1636	805	804
		✓		90								280MA	552											1686	855	854
		✓		110	B							315SA	800	465	120	680	680	120	120	630	690	6xM20	170	1815	1173	1172
		✓		132								315MA	900											1865	1283	1282
80–160	2	✓		11	A	100	80	125	225	46	48	160M	105	230	75	660	–	170	170	440	490	4xM20	35	1096	215	217
		✓	✓	15								160M	120												231	233
		✓	✓	18.5								160L	135											1140	248	250
		✓	✓	22								180M	175											1161	288	290
		✓	✓	30								200L	240	250		740		190	190	490	540		42	1259	374	376
			✓	37								200L	270												407	409
			✓	45								225MA	315	300		840		205	205	550	610	4xM24	66	1300	485	487
			✓	55								250MA	405	325		940		230	230	600	660		79	1410	606	608
80–200	2	✓		22	A	100	80	125	250	67	67	180M	175	230	75	740	–	190	190	440	490	4xM20	39	1271	316	316
		✓		30								200L	240	250		840		205	205	490	540		47	1369	402	402
		✓	✓	37								200L	270												435	435
		✓	✓	45								225MA	315	300						550	610		66	1410	508	508
		✓	✓	55								250MA	405	325		940		230	230	600	660	4xM24	79	1520	630	630
		✓	✓	75								280SA	515	380		1060		270	270	670	730		104	1636	781	781
			✓	90								280MA	552											1686	822	822
80–250	2	✓		45	A	100	80	125	280	77	77	225MA	315	300	90	840	–	205	205	550	610	4xM24	66	1410	519	519
		✓		55								250MA	405	325		940		230	230	600	660		79	1520	641	641
		✓	✓	75								280SA	515	380		1060		270	270	670	730		104	1636	795	795
		✓	✓	90								280MA	552											1686	845	845
		✓	✓	110	B							315SA	800	465	120	680	680	120	120	630	690	6xM20	175	1815	1164	1164
			✓	132								315MA	900											1865	1274	1274
80–315L	2	✓		90	A	100	80	125	315	112	112	280MA	552	380	90	1060	–	270	270	670	730	4xM24	104	1746	875	875
		✓		110	B							315SA	800	465	120	710	710	120	120	630	690	6xM20	175	1875	1203	1203
		✓		132								315MA	900											1925	1313	1313
		✓		160								315LA	980			760	760						180	2025	1414	1414
		✓		200								315LA	1100												1546	1546

EBARA reserves the right to make changes without prior notice.

DIMENSIONS

Model	Pole	Hz		Power	Fig	Size		Pump				Motor※		Base										Total (Approx.)		
		50	60	kW		dn1	dn2	a	h2	wt(kg)		Frame	wt(kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	wt(kg)	L	Weight kg	
										GS	GSS														GS	GSS
100-160	2	✓		15	A	125	100	125	250	91	future	160M	120	250	90	840	–	205	205	490	540	4xM20	47	1206	300	future
		✓		18.5								160L	135											1250	317	
		✓	✓	22								180M	175											1271	356	
		✓	✓	30								200L	240											1369	426	
		✓	✓	37								200L	270												459	
			✓	45								225MA	315	300						550	610	4xM24	66	1410	534	
			✓	55								250MA	405	325		940		230	230	600	660		79	1520	657	
100-200	2	✓		22	A	125	100	125	280	103	future	180M	175	250	90	840	–	205	205	490	540	4xM20	47	1271	370	future
		✓		30								200L	240											1369	440	
		✓		37								200L	270												473	
		✓	✓	45								225MA	315	300						550	610	4xM24	66	1410	547	
		✓	✓	55								250MA	405	325		940		230	230	600	660		79	1520	670	
		✓	✓	75								280SA	515	380		1060		270	270	670	730		104	1636	824	
			✓	90								280MA	552											1686	865	
			✓	110	B							315SA	800	465	120	680	680	120	120	630	690	6xM20	175	1815	1193	
			✓	132								315MA	900											1865	1303	
100-250	2	✓		37	A	125	100	140	280	108	future	200L	270	300	90	840	–	205	205	550	610	4xM24	66	1384	508	future
		✓		45								225MA	315											1425	548	
		✓		55								250MA	405	325		940		230	230	600	660		79	1535	671	
		✓		75								280SA	515	380		1060		270	270	670	730		104	1651	825	
		✓		90								280MA	552											1701	875	
		✓		110	B							315SA	800	465	120	680	680	120	120	630	690	6xM20	170	1830	1193	
		✓		132								315MA	900											1880	1303	
100-250L	2		✓	90	A	125	100	140	280	120	future	280MA	552	380	90	1060	–	270	270	670	730	4xM24	104	1761	879	future
			✓	110	B							315SA	800	465	120	710	710	120	120	630	690	6xM20	175	1890	1211	
			✓	132								315MA	900											1940	1321	
			✓	160								315LA	980			760	760						180	2040	1414	
			✓	200								315LA	1100												1555	
			✓	220								355MA	1550	505	135	840	840	135	135	765	825		230	2279	2100	
100-315L	2	✓		75	A	125	100	140	315	134	future	280SA	515	380	90	1060	–	270	270	670	730	4xM24	104	1711	849	future
		✓		90								280MA	552											1761	899	
		✓		110	B							315SA	800	465	120	710	710	120	120	630	690	6xM20	175	1890	1227	
		✓		132								315MA	900											1940	1337	
		✓		160								315LA	980			760	760						180	2040	1438	
		✓		200								315LA	1100												1570	
125-200	2	✓		45	A	150	125	140	315	120	future	225MA	315	325	90	840	–	205	205	550	610	4xM24	66	1425	571	future
		✓		55								250MA	405			940		230	230	600	660		79	1535	680	
		✓	✓	75								280SA	515	380		1060		270	270	670	730		104	1651	834	
		✓	✓	90								280MA	552											1701	883	
		✓	✓	110	B							315SA	800	465	120	680	680	120	120	630	690	6xM20	170	1830	1206	
			✓	132								315MA	900											1880	1316	
125-250L	2	✓		75	A	150	125	140	355	148	future	280SA	515	380	90	1060	–	270	270	670	730	4xM24	104	1711	865	future
		✓		90								280MA	552											1761	914	
		✓		110	B							315SA	800	465	120	710	710	120	120	630	690	6xM20	175	1890	1242	
		✓	✓	132								315MA	900											1940	1352	
		✓	✓	160								315LA	980			760	760						180	2040	1454	
		✓	✓	200								315LA	1100												1586	
			✓	220								355MA	1550	505	135	840	840	135	135	765	825		230	2279	2131	
			✓	250								355MA	1650												2241	
125-315	2	✓		110	B	150	125	140	355	176	future	315SA	800	465	120	710	710	120	120	630	690	6xM20	185	1890	1283	future
		✓		132								315MA	900											1940	1393	
		✓		160								315LA	980			760	760						190	2040	1495	
		✓		200								315LA	1100												1627	
		✓		220								355MA	1550	505	135	840	840	135	135	765	825		230	2279	2162	
		✓		250								355MA	1650												2285	
150-200	2	✓		37	A	200	150	160	355	154	future	200L	270	380	110	940	–	230	230	670	730	4xM24	92	1404	600	future
		✓		45								225MA	315											1445	649	
		✓	✓	55								250MA	405											1555	745	
		✓	✓	75								280SA	515			1060		270	270				104	1671	866	
		✓	✓	90								280MA	552											1721	915	
		✓	✓	110	B							315SA	800	465	120	680	680	120	120	630	690	6xM20	180	1850	1254	
			✓	132								315MA	900											1900	1364	
150-250	2	✓		110	B	200	150	160	375	171	future	315SA	800	465	120	710	710	120	120	630	690	6xM20	185	1910	1278	future
		✓		132								315MA	900											1960	1388	
		✓		160								315LA	980			760	760						190	2060	1489	
		✓		200								315LA	1100												1621	
		✓		220								355MA	1550	505	135	840	840	135	135	765	825		230	2299	2156	
		✓		250								355MA	1650												2279	

※Up to 55kW: EBARA motor
more than 75kW: TECO motor(AESV)

DIMENSIONS

DIMENSION-Model GS/GSS Pump with motor-4P 50Hz/60Hz

Model	Pole	Hz		Power	Fig	Size		Pump				Motor※		Base									Total (Approx.)		
		50	60	kW		dn1	dn2	a	h2	wt(kg)		Frame	wt(kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	wt(kg)	L	Weight kg	
										GS	GSS														GS	GSS
32-125.1	4	✓	✓	0.55	A	50	32	80	140	28	30	80M	15	162	60	540	–	130	130	320	360	4xM16	21	736	75	77
			✓	0.75								80M	16.5												76	78
32-125	4	✓	✓	0.55	A	50	32	80	140	28	27	80M	15	162	60	540	–	130	130	320	360	4xM16	21	736	75	76
			✓	0.75								80M	16.5												76	77
			✓	1.1								90S	22											787	81	82
32-160.1	4	✓	✓	0.55	A	50	32	80	160	29	28	80M	15	182	60	540	–	130	130	350	390	4xM16	23	736	79	78
		✓	✓	0.75								80M	16.5												80	79
			✓	1.1								90S	22											787	87	86
			✓	1.5								90L	24											812	89	88
32-160	4	✓	✓	0.55	A	50	32	80	160	29	28	80M	15	182	60	540	–	130	130	350	390	4xM16	23	736	79	78
		✓	✓	0.75								80M	16.5												80	79
		✓	✓	1.1								90S	22											787	87	86
			✓	1.5								90L	24											812	89	88
32-200.1	4	✓		0.55	A	50	32	80	180	39	38	80M	15	210	60	540	–	130	130	350	390	4xM16	23	736	90	89
		✓	✓	0.75								80M	16.5												92	91
		✓	✓	1.1								90S	22											787	99	98
			✓	1.5								90L	24											812	101	100
			✓	2.2								100L	32											835	111	110
32-200	4	✓		0.75	A	50	32	80	180	39	37	80M	16.5	210	60	540	–	130	130	350	390	4xM16	23	736	92	90
		✓		1.1								90S	22											787	99	97
		✓	✓	1.5								90L	24											812	101	99
		✓	✓	2.2								100L	32											835	111	109
			✓	3								100L	37.5											835	118	116
32-250	4	✓		0.75	A	50	32	100	225	46	46	80M	16.5	230	75	600	–	150	150	440	490	4xM20	31	756	109	109
		✓		1.1								90S	22											807	116	116
		✓		1.5								90L	24											832	118	118
		✓	✓	2.2								100L	32											855	129	129
		✓	✓	3								100L	37.5												136	136
			✓	4								112M	47.5											876	147	147
			✓	5.5								132S	64.0											929	168	168
40-125	4	✓	✓	0.55	A	65	40	80	140	30	29	80M	15	162	60	540	–	130	130	320	360	4xM16	21	736	77	76
		✓	✓	0.75								80M	16.5												79	78
			✓	1.1								90S	22											787	83	82
			✓	1.5								90L	24											812	86	85
40-160	4	✓	✓	0.55	A	65	40	80	160	31	30	80M	15	182	60	540	–	130	130	350	390	4xM16	23	736	81	80
		✓	✓	0.75								80M	16.5												83	82
		✓	✓	1.1								90S	22											787	89	88
		✓	✓	1.5								90L	24											812	91	90
			✓	2.2								100L	32											835	101	100
			✓	3								100L	37.5												108	107
40-200	4	✓		1.1	A	65	40	100	180	41	40	90S	22	210	60	540	–	130	130	350	390	4xM16	23	807	101	100
		✓	✓	1.5								90L	24											832	103	102
		✓	✓	2.2								100L	32											855	113	112
		✓	✓	3								100L	37.5												120	119
			✓	4								112M	47.5											876	132	131
			✓	5.5								132S	64			600		150	150				25	929	151	150
40-250	4	✓		1.5	A	65	40	100	225	48	48	90L	24	230	75	600	–	150	150	440	490	4xM20	31	832	120	120
		✓	✓	2.2								100L	32											855	131	131
		✓	✓	3								100L	37.5												138	138
		✓	✓	4								112M	47.5											876	149	149
			✓	5.5								132S	64											929	170	170
			✓	7.5								132M	78											967	186	186
40-315	4	✓		2.2	A	65	40	125	250	82	83	100L	32	275	75	600	–	150	150	440	490	4xM20	31	990	171	172
		✓		3								100L	37.5												177	178
		✓	✓	4								112M	47.5											1011	195	196
		✓	✓	5.5								132S	64			660		170	170				35	1064	215	216
		✓	✓	7.5								132M	78											1102	230	231
		✓	✓	11								160M	105			740		190	190				39	1207	269	270
			✓	15								160L	130											1251	296	297
50-125	4	✓	✓	0.55	A	65	50	100	160	33	34	80M	15	182	60	540	–	130	130	350	390	4xM16	23	756	83	84
		✓	✓	0.75								80M	16.5												85	86
		✓	✓	1.1								90S	22											807	91	92
			✓	1.5								90L	24											832	94	95
			✓	2.2								100L	32											855	103	104
50-160	4	✓		0.55	A	65	50	100	180	33	33	80M	15	210	60	540	–	130	130	350	390	4xM16	23	756	84	84
		✓	✓	0.75								80M	16.5												86	86
		✓	✓	1.1								90S	22											807	92	92
		✓	✓	1.5								90L	24											832	94	94
		✓	✓	2.2								100L	32											855	105	105
			✓	3								100L	37.5												112	112
			✓	4								112M	47.5											876	123	123
50-200	4	✓		1.1	A	65	50	100	200	44	43	90S	22	210	60	540	–	130	130	350	390	4xM16	23	807	104	103
		✓		1.5								90L	24											832	106	105
		✓	✓	2.2								100L	32											855	117	116
		✓	✓	3								100L	37.5												124	123
		✓	✓	4								112M	47.5											876	135	134
			✓	5.5								132S	64			600		150	150				25	929	154	153
			✓	7.5								132M	78											967	169	168
50-250	4	✓		2.2	A	65	50	100	225	50	49	100L	32	230	75	600	–	150	150	440	490	4xM20	31	855	133	132
		✓		3								100L	37.5												140	139
		✓	✓	4								112M	47.5											876	151	150
		✓	✓	5.5								132S	64											929	172	171
		✓	✓	7.5								132M	78											967	188	187
			✓	11								160M	105			660		170	170				35	1071	219	218
50-315	4	✓		4	A	65	50	125	280	86	86	112M	47.5	275	75	660	–	170	170	440	490	4xM20	35	1011	198	198
		✓		5.5								132S	64											1064	219	219
		✓	✓	7.5								132M	78											1102	234	234
		✓	✓	11								160M	105			740		190	190				39	1207	273	273
		✓	✓	15								160L	130											1251	300	300
			✓	18.5								180M	175			840		205	205	490	540		47	1271	359	359
			✓	22								180L	190											1309	379	379

EBARA reserves the right to make changes without prior notice.

DIMENSIONS

Model	Pole	Hz		Power	Fig	Size		Pump				Motor※		Base										Total (Approx.)		
		50	60	kW		dn1	dn2	a	h2	wt(kg)		Frame	wt(kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	wt(kg)	L	Weight kg	
										GS	GSS														GS	GSS
65-125	4	✓		0.55	A	80	65	100	180	37	37	80M	15	210	75	540	–	130	130	400	450	4xM20	26	756	92	92
		✓		0.75								80M	16.5												93	93
		✓	✓	1.1								90S	22											807	100	100
		✓	✓	1.5								90L	24											832	102	102
			✓	2.2								100L	32											855	112	112
			✓	3								100L	37.5												119	119
65-160	4	✓		0.75	A	80	65	100	200	41	43	80M	16.5	210	75	540	–	130	130	400	450	4xM20	26	756	98	100
		✓		1.1								90S	22											807	104	106
		✓	✓	1.5								90L	24											832	106	108
		✓	✓	2.2								100L	32											855	117	119
		✓	✓	3								100L	37.5												124	126
			✓	4								112M	47.5											876	135	137
			✓	5.5								132S	64			660		170	170				32	929	158	160
65-200	4	✓		1.5	A	80	65	100	225	47	45	90L	24	230	75	600	–	150	150	440	490	4xM20	31	832	119	117
		✓		2.2								100L	32											855	130	128
		✓	✓	3								100L	37.5												137	135
		✓	✓	4								112M	47.5											876	148	146
		✓	✓	5.5								132S	64											929	169	167
			✓	7.5								132M	78											967	184	182
			✓	11								160M	105			660		170	170				35	1071	216	214
65-250	4	✓		3	A	80	65	100	250	73	72	100L	37.5	250	90	740	–	190	190	490	540	4xM20	42	965	178	177
		✓		4								112M	47.5											986	190	189
		✓	✓	5.5								132S	64											1039	211	210
		✓	✓	7.5								132M	78											1077	226	225
		✓	✓	11								160M	105			840		205	205				47	1181	264	263
			✓	15								160L	130											1226	293	292
65-315	4	✓		7.5	A	80	65	125	280	90	89	132M	78	300	90	840	–	205	205	550	610	4xM24	66	1102	273	272
		✓	✓	11								160M	105											1207	307	306
		✓	✓	15								160L	130											1251	335	334
		✓	✓	18.5								180M	175											1271	384	383
			✓	22								180L	190											1309	405	404
			✓	30								200L	255											1369	472	471
80-160	4	✓		1.1	A	100	80	125	225	46	48	90S	22	230	75	600	–	150	150	440	490	4xM20	31	832	116	118
		✓		1.5								90L	24											857	118	120
		✓	✓	2.2								100L	32											880	129	131
		✓	✓	3								100L	37.5												136	138
		✓	✓	4								112M	47.5											901	147	149
			✓	5.5								132S	64											954	168	170
			✓	7.5								132M	78											992	183	185
80-200	4	✓		2.2	A	100	80	125	250	67	67	100L	32	230	75	600	–	150	150	440	490	4xM20	31	990	153	153
		✓		3								100L	37.5												159	159
		✓	✓	4								112M	47.5											1011	175	175
		✓	✓	5.5								132S	64			660		170	170				35	1064	196	196
		✓	✓	7.5								132M	78											1102	211	211
		✓	✓	11								160M	105			740		190	190				39	1206	242	242
			✓	15								160L	130											1251	271	271
80-250	4	✓		5.5	A	100	80	125	280	77	77	132S	64	275	90	840	–	205	205	550	610	4xM24	66	1064	241	241
		✓	✓	7.5								132M	78											1102	257	257
		✓	✓	11								160M	105											1207	291	291
		✓	✓	15								160L	130											1251	319	319
			✓	18.5								180M	175											1271	362	362
			✓	22								180L	190											1309	382	382
80-315	4	✓		11	A	100	80	125	315	101	102	160M	105	325	90	840	–	205	205	550	610	4xM24	66	1207	321	322
		✓		15								160L	130											1251	349	350
		✓	✓	18.5								180M	175											1271	402	403
		✓	✓	22								180L	190											1309	418	419
		✓	✓	30								200L	255											1369	493	494
			✓	37								225SC	315											1415	555	556
			✓	45								225MC	330											1440	572	573
80-400	4	✓		11	A	100	80	125	355	162	160	160M	105	355	90	840	–	205	205	550	610	4xM24	66	1267	390	388
		✓		15								160L	130											1311	418	416
		✓	✓	18.5								180M	175											1331	480	478
		✓	✓	22								180L	190											1369	497	495
		✓	✓	30								200L	255											1429	578	576
		✓	✓	37								225SC	315											1475	643	641
		✓	✓	45								225MC	330											1500	668	666
		✓	✓	55								250MC	450							600	660		79	1580	798	796
			✓	75								280SB	566	380		1060		270	270	670	730		104	1696	940	938
			✓	90								280MB	624											1746	1012	1010

DIMENSIONS

Model	Pole	Hz		Power	Fig	Size		Pump				Motor※		Base									Total (Approx.)		
		50	60	kW		dn1	dn2	a	h2	wt(kg)		Frame	wt(kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	wt(kg)	L	Weight kg	
										GS	GSS														GS	GSS
100–160	4	✓		2.2	A	125	100	125	250	91	future	100L	32	250	90	740	–	190	190	490	540	4xM20	42	990	192	future
		✓		3								100L	37.5												198	
		✓	✓	4								112M	47.5											1011	210	
		✓	✓	5.5								132S	64											1064	230	
			✓	7.5								132M	78											1102	246	
100–200	4	✓		4	A	125	100	125	280	103	future	112M	47.5	250	90	740	–	190	190	490	540	4xM20	42	1011	223	future
		✓	✓	5.5								132S	64											1064	243	
		✓	✓	7.5								132M	78											1102	259	
		✓	✓	11								160M	105			840	–	205	205				47	1207	299	
			✓	15								160L	130											1251	326	
			✓	18.5								180M	175											1271	370	
100–250	4	✓		5.5	A	125	100	140	280	108	future	132S	64	300	90	840	–	205	205	550	610	4xM24	66	1079	277	future
		✓		7.5								132M	78											1117	293	
		✓	✓	11								160M	105											1222	327	
		✓	✓	15								160L	130											1266	354	
		✓	✓	18.5								180M	175											1286	408	
			✓	22								180L	190											1324	424	
			✓	30								200L	255											1384	491	
100–315	4	✓		7.5	A	125	100	140	315	109	future	132M	78	325	90	840	–	205	205	550	610	4xM24	66	1117	295	future
		✓		11								160M	105											1222	330	
		✓	✓	15								160L	130											1266	358	
		✓	✓	18.5								180M	175											1286	410	
		✓	✓	22								180L	190											1324	427	
		✓	✓	30								200L	255											1384	507	
			✓	37								225SC	315											1430	564	
			✓	45								225MC	330											1455	580	
100–400	4	✓		15	A	125	100	140	355	189	future	160L	130	380	110	940	–	230	230	670	730	4xM24	92	1326	476	future
		✓		18.5								180M	175											1346	530	
		✓		22								180L	190											1384	546	
		✓	✓	30								200L	255											1444	627	
		✓	✓	37								225SC	315											1490	692	
		✓	✓	45								225MC	330											1515	718	
		✓	✓	55								250MC	450											1595	842	
			✓	75								280SB	566			1060	–	270	270				104	1711	969	
			✓	90								280MB	624											1761	1042	
125–200	4	✓		5.5	A	150	125	140	315	120	future	132S	64	325	90	840	–	205	205	550	610	4xM24	66	1079	291	future
		✓	✓	7.5								132M	78											1117	307	
		✓	✓	11								160M	105											1222	342	
		✓	✓	15								160L	130											1266	370	
			✓	18.5								180M	175											1286	419	
			✓	22								180L	190											1324	439	
125–250	4	✓		11	A	150	125	140	355	131	future	160M	105	325	90	840	–	205	205	550	610	4xM24	66	1222	354	future
		✓		15								160L	130											1266	382	
		✓	✓	18.5								180M	175											1286	435	
		✓	✓	22								180L	190											1324	451	
		✓	✓	30								200L	255											1384	531	
			✓	37								225SC	315											1430	588	
			✓	45								225MC	330											1455	605	
125–315	4	✓		15	A	150	125	140	355	176	future	160L	130	380	110	940	–	230	230	670	730	4xM24	92	1326	462	future
		✓		18.5								180M	175											1346	516	
		✓	✓	22								180L	190											1384	532	
		✓	✓	30								200L	255											1444	613	
		✓	✓	37								225SC	315											1490	678	
		✓	✓	45								225MC	330											1515	703	
			✓	55								250MC	450											1595	828	
			✓	75								280SB	566			1060		270	270				104	1711	955	
125–400	4	✓		22	A	150	125	140	400	218	future	180L	190	415	110	940	–	230	230	670	730	4xM24	92	1384	580	future
		✓		30								200L	255											1444	661	
		✓		37								225SC	315											1490	728	
		✓	✓	45								225MC	330											1515	754	
		✓	✓	55								250MC	450											1595	901	
		✓	✓	75								280SB	566			1060		270	270				104	1711	1040	
			✓	90								280MB	624											1761	1104	
			✓	110	B							315SB	800	465	120	710	710	120	120	630	690	6xM20	185	1920	1338	
			✓	132								315MB	900											1970	1448	
125–500	4	✓		30	A	150	125	180	450	365	future	200L	255	475	110	1060	–	270	270	670	730	4xM24	104	1624	840	future
		✓		37								225SC	315											1670	908	
		✓	✓	45								225MC	330											1695	933	
		✓	✓	55								250MC	450											1775	1071	
		✓	✓	75								280SB	566			1200		300	300				117	1891	1226	
		✓	✓	90								280MB	624											1941	1290	
		✓	✓	110	B							315SB	800	525	115	790	790	115	115	630	690	6xM20	220	2100	1535	
			✓	132								315MB	900											2150	1645	
			✓	160								315LB	990			845	845						225	2250	1762	

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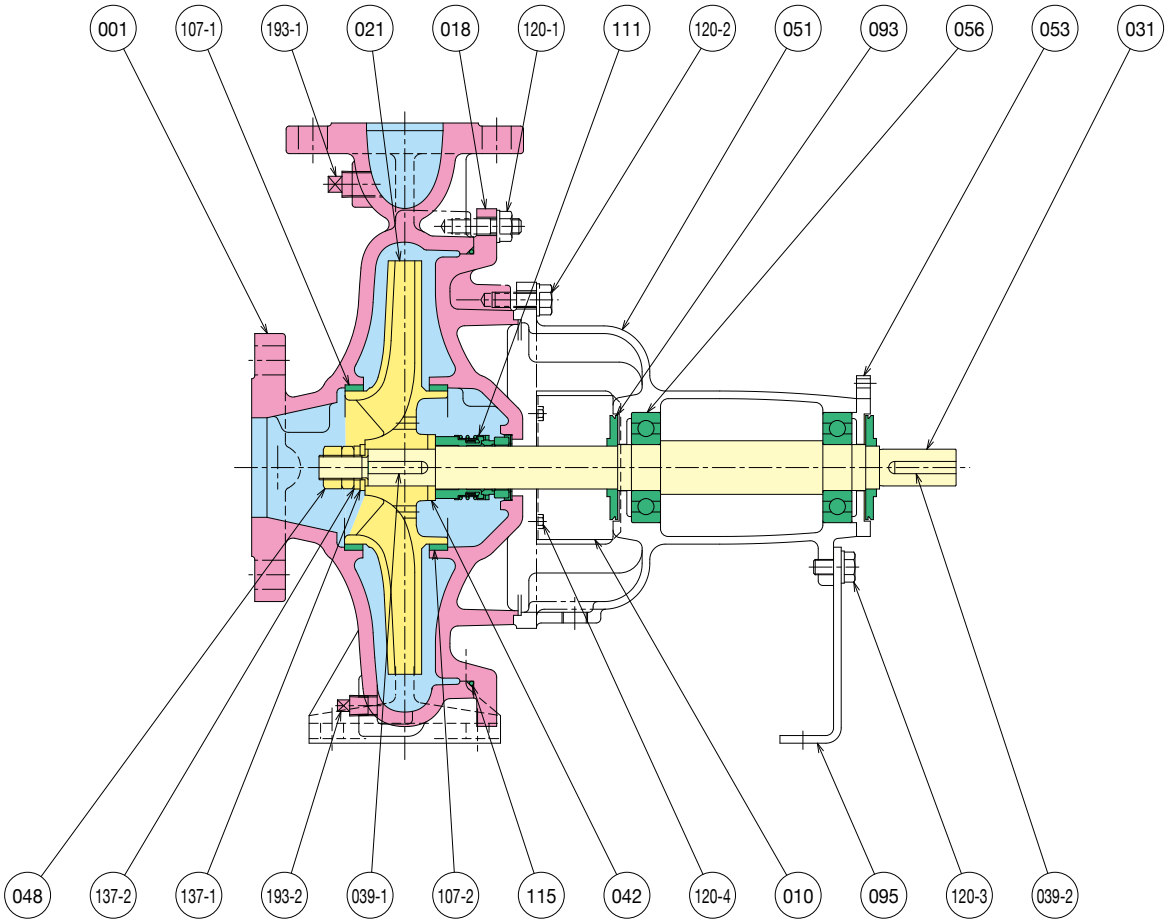
DIMENSIONS

Model	Pole	Hz		Power	Fig	Size		Pump				Motor※		Base										Total (Approx.)		
		50	60	kW		dn1	dn2	a	h2	wt(kg)		Frame	wt(kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	wt(kg)	L	Weight kg	
										GS	GSS														GS	GSS
150-200	4	✓		4	A	200	150	160	355	154	future	112M	47.5	380	110	940	–	230	230	670	730	4xM24	92	1046	337	future
		✓		5.5								132S	64											1099	358	
		✓	✓	7.5								132M	78											1137	374	
		✓	✓	11								160M	105											1242	410	
		✓	✓	15								160L	130											1286	437	
			✓	18.5								180M	175											1306	488	
			✓	22								180L	190											1344	508	
150-250	4	✓		15	A	200	150	160	375	171	future	160L	130	380	110	940	–	230	230	670	730	4xM24	92	1346	457	future
		✓		18.5								180M	175											1366	510	
		✓		22								180L	190											1404	527	
		✓	✓	30								200L	255											1464	607	
		✓	✓	37								225SC	315											1510	672	
		✓	✓	45								225MC	330											1535	698	
			✓	55								250MC	450											1615	822	
			✓	75								280SB	566			1060		270	270				104	1731	950	
150-315	4	✓		18.5	A	200	150	160	400	225	future	180M	175	415	110	940	–	230	230	670	730	4xM24	92	1366	571	future
		✓		22								180L	190											1404	588	
		✓		30								200L	255											1464	669	
		✓	✓	37								225SC	315											1510	736	
		✓	✓	45								225MC	330											1535	761	
		✓	✓	55								250MC	450			1060		270	270				104	1615	909	
		✓	✓	75								280SB	566											1731	1058	
			✓	90								280MB	624											1781	1122	
			✓	110	B							315SB	800	465	120	710	710	120	120	630	690	6xM20	185	1940	1346	
			✓	132								315MB	900											1990	1456	
150-400	4	✓		37	A	200	150	160	450	339	future	225SC	315	415	110	940	–	230	230	670	730	4xM24	92	1510	861	future
		✓		45								225MC	330											1535	887	
		✓		55								250MC	450			1060		270	270				104	1615	1035	
		✓		75								280SB	566											1731	1173	
		✓		90								280MB	624											1781	1237	
150-400L	4		✓	55	A	200	150	160	450	363	future	250MC	450	415	110	1060	–	270	270	670	730	4xM24	104	1755	1061	future
			✓	75								280SB	566			1200		300	300				117	1871	1215	
			✓	90								280MB	624											1921	1288	
			✓	110	B							315SB	800	465	115	790	790	115	115	630	690	6xM20	190	2080	1502	
			✓	132								315MB	900											2130	1612	
			✓	160								315LB	990			845	845						200	2230	1735	
150-500	4	✓		55	A	200	150	180	560	491	future	250MC	450	475	110	1060	–	270	270	670	730	4xM24	104	1775	1210	future
		✓		75								280SB	566			1200		300	300				117	1891	1365	
		✓		90								280MB	624											1941	1429	
		✓	✓	110	B							315SB	800	525	115	790	790	115	115	630	690	6xM20	220	2100	1673	
		✓	✓	132								315MB	900											2150	1796	
		✓	✓	160								315LB	990			845	845						225	2250	1900	
			✓	200								315LB	1160												2087	
			✓	220								355MB	1550	550	125	945	945	125	125	755	825	6xM22	340	2499	2643	
			✓	250								355MB	1650												2753	
			✓	315								355LB	1900												3028	
200-400	4	✓		75	B	250	200	180	560	508	future	280SB	566	535	220	650	650	220	220	680	740	6xM20	235	1891	1449	future
		✓		90								280MB	624											1941	1513	
		✓		110								315SB	800			740	740						280	2100	1752	
		✓	✓	132								315MB	900											2150	1875	
		✓	✓	160								315LB	990			795	795						290	2250	1984	
		✓	✓	200								315LB	1160												2183	
		✓	✓	220								355MB	1550	560		900	900			755	825	6xM22	390	2499	2712	
			✓	250								355MB	1650												2822	
			✓	315								355LB	1900												3097	
			✓	375								355CB	2340			1000	1000						430	2691	3643	
200-500	4	✓		160	B	250	200	200	630	645	future	315LB	990	585	220	870	870	220	220	680	740	6xM20	260	2420	2105	future
		✓		200								315LB	1160												2304	
		✓		220								355MB	1550	610		975	975			755	825	6xM22	370	2669	2843	
		✓	✓	250								355MB	1650												2953	
		✓	✓	315								355LB	1900											2671	3249	
		✓	✓	375								355CB	2340			1070	1070						380	2861	3743	

※ 0.75kW to 55kW: EBARA motor
0.55kW and more than 75kW: TECO motor(AESV)

SECTIONAL VIEW

MECHANICAL SEAL TYPE



No.	Part name	Qty
001	CASING	1
010	PROTECTOR	2
018	CASING COVER	1
021	IMPELLER	1
031	SHAFT	1
039-1	KEY	1
039-2	KEY	1
042	SPACER	1
048	IMPELLER NUT	1
051	BEARING HOUSING	1
053	BEARING COVER	1
056	BALL BEARING	2
093	DEFLECTOR	2

No.	Part name	Qty
095	STAY	1
107-1	CASE WEAR RING	1
107-2	CASE WEAR RING	1
111	MECHANICAL SEAL	1
115	O-RING	1
120-1	BOLT	-
120-2	BOLT	6
120-3	BOLT	1
120-4	BOLT	4
137-1	PLAIN WASHER	1
137-2	SPRING LOCK WASHER	1
193-1	PLUG	1
193-2	PLUG	1

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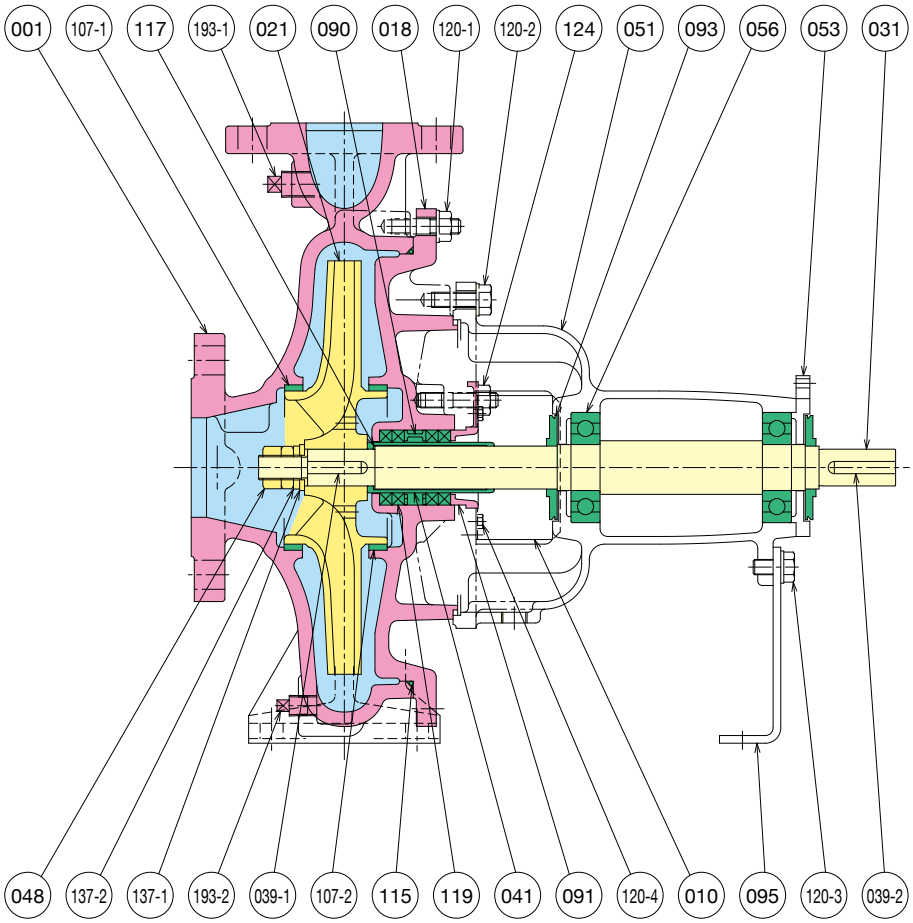
SECTIONAL VIEW

GLAND PACKING TYPE



No.	Part name	Qty
001	CASING	1
010	PROTECTOR	2
018	CASING COVER	1
021	IMPELLER	1
031	SHAFT	1
039-1	KEY	1
039-2	KEY	1
041	SHAFT SLEEVE	1
048	IMPELLER NUT	1
051	BEARING HOUSING	1
053	BEARING COVER	1
056	BALL BEARING	2
090	LANTERN RING	1
091	GLAND	1
093	DEFLECTOR	2

No.	Part name	Qty
095	STAY	1
107-1	CASE WEAR RING	1
107-2	CASE WEAR RING	1
115	O-RING	1
117	GASKET	1
119	GLAND PACKING	4
120-1	BOLT	-
120-2	BOLT	6
120-3	BOLT	1
120-4	BOLT	4
124	GLAND BOLT	2
137-1	PLAIN WASHER	1
137-2	SPRING LOCK WASHER	1
193-1	PLUG	1
193-2	PLUG	1

MATERIALS

Materials of mechanical seal application **(conical type)**

●:Standard ○:Optional

No.	Name of part	Material	JIS Material	ASTM equivalent	ISO or EN equivalent	Material group G1	G2	G3	G4	A1	A2
001	CASING	Cast iron	FC250	A278-35	EN-GJL-250 (EN-JL1040)	●	●	●	●		
		Ductile cast irons	FCD400	A536-60-40-18	EN-GJS-400-15 (5.3106)	○	○	○	○		
		304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10 (1.4308)					●	
		316 Stainless steel	SCS14A	A351-CF8M	GX5CrNiMo19-11-2 (1.4408)						○
010	PROTECTOR	Carbon steel	SPCC	A569	DC01 (1.0330)	●	●	●	●	●	●
018	CASING COVER (conical)	Cast iron	FC250	A278-35	EN-GJL-250 (EN-JL1040)	●	●	●	●		
		Ductile cast irons	FCD400	A536-60-40-18	EN-GJS-400-15 (5.3106)	○	○	○	○		
		304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10 (1.4308)					●	
		316 Stainless steel	SCS14A	A351-CF8M	GX5CrNiMo19-11-2 (1.4408)						○
021	IMPELLER	Cast iron (*1)	FC200	A278-30	EN-GJL-200 (EN-JL1030)	●	●				
		Ductile cast irons (*2)	FCD400	A536-60-40-18	EN-GJS-400-15 (5.3106)	●	●				
		Bronze	CAC406	B584-C83600	CuSn5Zn5Pb5 (CC491K)			●			
		304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10 (1.4308)				○	●	
		316 Stainless steel	SCS14A	A351-CF8M	GX5CrNiMo19-11-2 (1.4408)						○
031	SHAFT	Cr. steel	SUS431eq. or SUS420J2	A276-431 or A276-420 eq.	X17CrNi16-2 (1.4057) or X30Cr13 (1.4028) eq.	●	●	●			
		Duplex stainless steel (*3)	SUS329J3 / S35C	A276-S31803 / Grade1035	X2CrNiMoN22-5-3 (1.4462) / C35				○	●	●
039-1	KEY	12% Cr. steel	SUS420J2	A276-420	X30Cr13 (1.4028)	●	●	●			
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)				○	●	●
039-2	KEY	Carbon steel	S50C	A576-1050	C50 (1.0540)	●	●	●	●	●	●
042	SPACER	304 Stainless steel	SUS304	A276-304	X5CrNi18-10 (1.4301)	●	●	●	●	●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)						○
048	IMPELLER NUT	304 Stainless steel	SUS304	A276-304	X5CrNi18-10 (1.4301)	●	●	●	●	●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)						○
051	BEARING HOUSING	Cast iron	FC150	A48-20	EN-GJL-150 (EN-JL1020)	●	●	●	●	●	●
053	BEARING COVER	Cast iron	FC150	A48-20	EN-GJL-150 (EN-JL1020)	●	●	●	●	●	●
056	BALL BEARING	Steel (*4)	---	---	---	●	●	●	●	●	●
093	DEFLECTOR	EPDM	---	---	---	●	●	●	●	●	●
095	STAY	Carbon steel	SPHC	A569	---	●	●	●	●	●	●
107	CASE WEAR RING	Bronze	CAC406	B584-C83600	CuSn5Zn5Pb5 (CC491K)	●		●			
		Cast iron	FC150	A48-20	EN-GJL-150 (EN-JL1020)		●		●		
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)					●	●
111	MECHANICAL SEAL	Sic/carbon/FKM (*5)	---	---	---	●	●	●	●	●	●
		Sic/carbon/EPDM (*5)	---	---	---	○	○	○	○	○	○
		Tc/carbon/EPDM (*6)	---	---	---	○	○	○	○	○	○
		Sic/Sic/	---	---	---	○	○	○	○	○	○
115	O-RING	NBR	---	---	---	●	●	●	●		
		FKM	---	---	---	○	○	○	○	●	●
		EPDM	---	---	---	○	○	○	○	○	○
120	BOLTS	Carbon steel	SS	A283-D	---	●	●	●	●	●	●
137-1	PLAIN WASHER	304 Stainless steel	SUS304	A276-304	X5CrNi18-10 (1.4301)	●	●	●	●	●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)						○
137-2	SPRING LOCK WASHER	304 Stainless steel	SUS304	A276-304	X5CrNi18-10 (1.4301)	●	●	●	●	●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)						○
193-1	PLUG	Carbon steel	SS	A283-D	---	●	●	●	●		
		304 Stainless steel	SUS304	A276-304	X5CrNi18-10 (1.4301)					●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)						○
193-2	PLUG	Carbon steel	SS	A283-D	---	●	●	●	●		
		304 Stainless steel	SUS304	A276-304	X5CrNi18-10 (1.4301)					●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)						○

(*1) Except pumps model GS100-400, 125-400, 125-500, 150-400, 150-500, 200-400 and 200-500, impellers made of cast iron are applied for all pumps.

(*2) Impellers made of ductile cast iron are applied only the pumps model GS100-400, 125-400, 125-500, 150-400, 150-500, 200-400 and 200-500.

(*3) Wetted part only

(*4) Deep groove ball bearing,single row / Vacuum degassed steel

(*5) Elastomer bellows seal

(*6) O ring/Spring

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MATERIALS

Materials of **gland packing** application (*7)

●:Standard ○:Optional

No.	Name of part	Material	JIS Material	ASTM equivalent	ISO or EN equivalent	Material group					
						G1	G2	G3	G4	A1	A2
018	CASING COVER (cylindrical)	Cast iron	FC250	A278-35	EN-GJL-250 (EN-JL1040)	●	●	●	●		
		304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10 (1.4308)					●	
		316 Stainless steel	SCS14A	A351-CF8M	GX5CrNiMo19-11-2 (1.4408)						○
041	SHAFT SLEEVE	304 Stainless steel	SUS304	A276-304	X5CrNi18-10 (1.4301)	●	●	●	●	●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)						○
090	LANTERN RING	Cast iron	FC150 or 200	A48-20 or 30	EN-GJL-150 (EN-JL1020) or EN-GJL-200 (EN-JL1030)		○				
		Bronze	---	---	---	●		●			
		304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10 (1.4308)				○	●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)						○
091	GLAND	Cast iron	FC150	A48-20	EN-GJL-150 (EN-JL1020)		○				
		Brass	---	---	---	●		●			
		304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10 (1.4308)				○	●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)						○
117	GASKET	Joint sheet gasket (*8)	---	---	---	●	●	●	●	●	●
119	GLAND PACKING	Silicone carbide fiber packing (*9)	---	---	---	●	●	●	●	●	●
124	GLAND BOLT	12% Cr. steel	SUS403	A276-403	---		○				
		Brass	C3604BD	B16-C36000	---	●		●			
		304 Stainless steel	SUS304	A276-304	X5CrNi18-10 (1.4301)				○	●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2 (1.4401)						○

(*7) The components which constitute the gland packing pump are these parts instead of P/N 018, 042 and 111 of the mechanical seal pump.
(*8) V#6500AC
(*9) P#6501L or P#6502L

Explanation of Material Group

Material Group	Casing, 001 and Casing Cover, 018	Impeller, 021	Case Wear Ring, 107	Shaft, 031	Notes
G1	Cast iron or Ductile cast irons	Cast iron or Ductile cast irons	Bronze	Cr.steel	Cast iron impeller with Bronze case wear ring
G2		Cast iron or Ductile cast irons	Cast iron	Cr.steel	All wetted parts are Iron material.
G3		Bronze	Bronze	Cr.steel	Bronze impeller with Bronze case wear ring
G4		304 Stainless steel	Cast iron	Duplex stainless steel	Stainless steel impeller with Duplex stainless steel shaft
A1	304 Stainless steel	304 Stainless steel	316 Stainless steel	Duplex stainless steel	---
A2	316 Stainless steel	316 Stainless steel	316 Stainless steel	Duplex stainless steel	---

MEMO

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MEMO