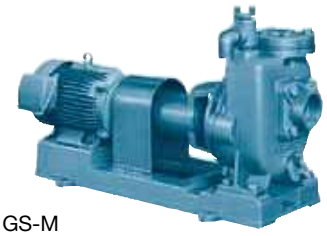
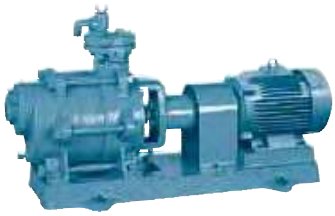
GS-M·KS Self-priming turbine pump 2 pole



GS-M



KS

Application

(Please inquire in case drinking water application.)

Features

- Self-priming pump construction (PAT.) does not require foot valve
- Various kind of models
- Easy maintenance and inspection due to back pull out construction
- Low operation sound (GS-M)

Maximum suction total head (20℃)

–6m (GS-405-MN0.4 : –5m)

Standard specifications

- Liquid: Clean water 0~40℃ (however there should be no freezing)
- Materials:
  - GS-M: Impeller : Cast iron; Shaft : SUS403+S35C; Casing : Cast iron
  - KS: Impeller : Bronze; Shaft : SUS403; Casing : Cast iron
- Shaft sealing: Gland packing
- Motor: TEFC indoor, Three phase

Standard accessories

Motor, Base, Coupling, Companion flanges, Coupling cover, Priming and exhaust valve, Strainer

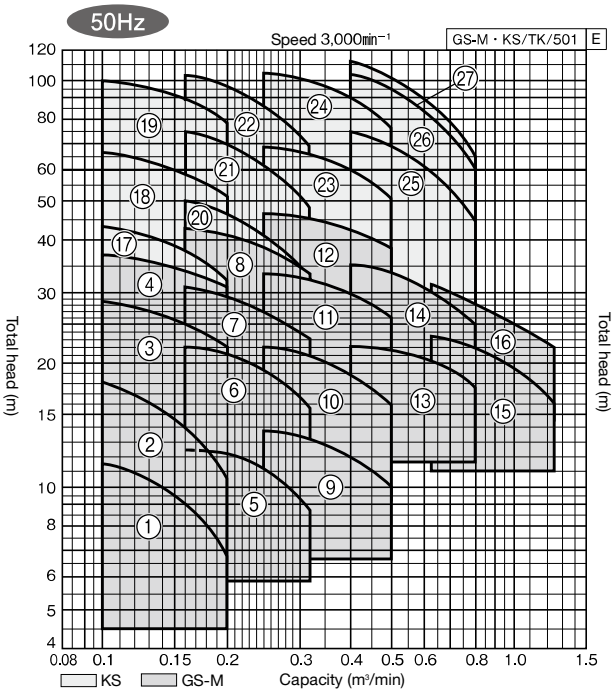
Maximum back pressure

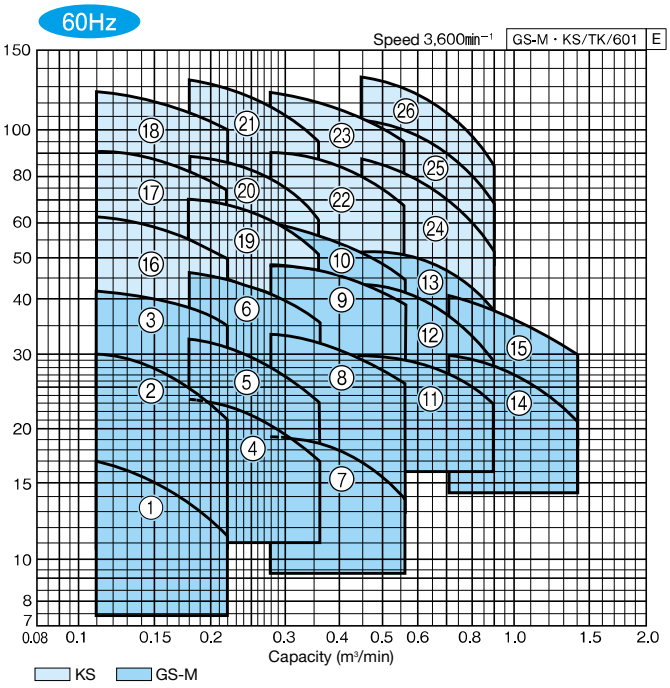
GS-M	0.098MPa
KS	0.39MPa

* however, Shut off operation pressure +Buck pressure should be less than 1.37MPa

Selection chart

These charts show the performance in case of Kawamoto standard motor. Inquire specification sheets and drawings in case of actual work planing.





Specification table

GS-M 50Hz

GS-M/SI/501 E

Bored	Ref	Model	Motor	Performance						Vibration isolator application table	
				Capacity	Total head	Capacity	Total head	Capacity	Total head		
mm			kW	m³/min	m	m³/min	m	m³/min	m		
40	1	GS-405-MN0.4	0.4	0.1	11.5	0.14	10	0.2	6.8	QRE-02A	PX-75Z
	2	GS405ME0.75	0.75	0.1	18	0.14	15.5	0.2	10.5	QRE-02A	PX-75Z
	3	GS405ME1.5	1.5	0.1	28.5	0.14	26.5	0.2	22	QRE-03A	PX-85Z
	4	GS405ME2.2	2.2	0.1	37	0.14	35	0.2	30.5	QRE-03A	PX-85Z
50	5	GS505ME0.75	0.75	0.16	12.5	0.22	11.8	0.32	8.8	QRE-03A	PX-75Z
	6	GS505ME1.5	1.5	0.16	22.2	0.22	20.2	0.32	15.5	QRE-06A	PX-75Z
	7	GS505ME2.2	2.2	0.16	31	0.22	28.5	0.32	23	PBKV-75-1006-01	PX-85Z
	8	GS505ME3.7	3.7	0.16	43	0.22	40	0.32	33.5	PBKV-70-1006-01	PX-85Z
65	9	GS655ME1.5	1.5	0.25	13.8	0.36	12.5	0.5	10	QRE-02A	PX-85Z
	10	GS655ME2.2	2.2	0.25	22	0.36	20	0.5	15.8	QRE-02A	PX-85Z
	11	GS655ME3.7	3.7	0.25	33.5	0.36	31.5	0.5	26	QRE-07B	PX-95Z
	12	GS655ME5.5	5.5	0.25	47	0.36	44.5	0.5	38.5	QRE-07B	PX-110Z
80	13	GS805ME3.7	3.7	0.4	22	0.56	21	0.8	17.5	QRE-07B	PX-95Z
	14	GS805ME5.5	5.5	0.4	35.5	0.56	32	0.8	25	QRE-07B	PX-110Z
100	15	GS1005ME5.5	5.5	0.63	23.5	0.9	20.5	1.25	16	QRE-07B	PX-110Z
	16	GS1005ME7.5	7.5	0.63	31	0.9	27	1.25	22	QRE-08B	PX-110Z

KS 50Hz

KS/SI/501 E

Bore d	Ref	Model	Motor	No. of stage	Performance						Vibration isolator application table	
					Total head	Capacity	Total head	Capacity	Total head	Capacity		
mm			kW	S	m³/min	m	m³/min	m	m³/min	m		
40	17	KS405×2ME2.2	2.2	2	0.1	43	0.14	40	0.2	32	QRE-04D	PX-85Z
	18	KS405×3ME3.7	3.7	3	0.1	67	0.14	62	0.2	51	QRE-04D	PX-110Z
	19	KS405×4ME5.5	5.5	4	0.1	100	0.14	94	0.2	79	QRE-07B	PX-120Z
50	20	KS505×2ME3.7	3.7	2	0.16	50	0.22	45	0.32	33	QRE-04D	PX-110Z
	21	KS505×3ME5.5	5.5	3	0.16	75	0.22	67	0.32	49	QRE-05D	PX-110Z
	22	KS505×4ME7.5	7.5	4	0.16	103	0.22	93	0.32	69	QRE-08B	PX-120Z
65	23	KS655×2ME7.5	7.5	2	0.25	69	0.36	63	0.5	52	QRE-06D	PX-110Z
	24	KS655×3ME11	11	3	0.25	104	0.36	95	0.5	77	QRE-08B	PX-130Z
80	25	KS805×2ME11	11	2	0.4	75	0.56	65	0.8	45	QRE-08B	PX-120Z
	26	KS805×3ME15	15	3	0.4	103	0.56	89	0.8	60	QRE-09B	PX-130Z
	27	KS805×3ME18	18.5	3	0.4	111	0.56	95	0.8	65	QRE-09B	PX-S146Z

GS-M 60Hz

GS-M/SI/601 E

Bore d	Ref	Model	Motor	Performance						Vibration isolator application table	
				Capacity	Total head	Capacity	Total head	Capacity	Total head		
mm			kW	m³/min	m	m³/min	m	m³/min	m		
40	1	GS406ME0.75	0.75	0.11	17	0.16	14.5	0.22	11.2	QRE-02A	PX-75Z
	2	GS406ME1.5	1.5	0.11	30	0.16	27	0.22	21	QRE-02A	PX-75Z
	3	GS406ME2.2	2.2	0.11	42	0.16	39.5	0.22	35	QRE-02A	PX-85Z
50	4	GS506ME1.5	1.5	0.18	23.5	0.25	21.5	0.36	17	QRE-02A	PX-75Z
	5	GS506ME2.2	2.2	0.18	32.5	0.25	29.5	0.36	23	QRE-02A	PX-75Z
	6	GS506ME3.7	3.7	0.18	46	0.25	43	0.36	35.5	QRE-02A	PX-85Z
65	7	GS656ME2.2	2.2	0.28	19.2	0.4	17.8	0.56	13.8	QRE-02A	PX-85Z
	8	GS656ME3.7	3.7	0.28	33.5	0.4	30.5	0.56	25.5	QRE-02A	PX-95Z
	9	GS656ME5.5	5.5	0.28	48.5	0.4	45.5	0.56	39	QRE-05D	PX-110Z
	10	GS656ME7.5	7.5	0.28	60	0.4	54.5	0.56	45	QRE-05D	PX-110Z
80	11	GS806ME5.5	5.5	0.45	29.5	0.63	28	0.9	23	QRE-05D	PX-110Z
	12	GS806ME7.5	7.5	0.45	44.5	0.63	39.2	0.9	28.5	QRE-05D	PX-110Z
	13	GS806ME11	11	0.45	51.5	0.63	47.8	0.9	37.8	QRE-08B	PX-120Z
100	14	GS1006ME7.5	7.5	0.71	30	1.0	27	1.4	21	QRE-06D	PX-110Z
	15	GS1006ME11	11	0.71	41	1.0	36.2	1.4	29.5	QRE-08B	PX-120Z

KS 60Hz

KS/SI/601 E

Bore d	Ref	Model	Motor	No. of stage	Performance						Vibration isolator application table	
					Total head	Capacity	Total head	Capacity	Total head	Capacity		
mm			kW	S	m³/min	m	m³/min	m	m³/min	m		
40	16	KS406×2ME3.7	3.7	2	0.11	64	0.16	59	0.22	50	QRE-04D	PX-110Z
	17	KS406×3ME5.5	5.5	3	0.11	92	0.16	86	0.22	75	QRE-05D	PX-110Z
	18	KS406×4ME7.5	7.5	4	0.11	126	0.16	118	0.22	100	QRE-07B	PX-120Z
50	19	KS506×2ME5.5	5.5	2	0.18	71	0.25	66	0.36	52	QRE-05D	PX-110Z
	20	KS506×3ME7.5	7.5	3	0.18	89	0.25	84	0.36	64	QRE-05D	PX-110Z
	21	KS506×4ME11	11	4	0.18	134	0.25	122	0.36	96	QRE-08B	PX-130Z
65	22	KS656×2ME11	11	2	0.28	91	0.4	83	0.56	68	QRE-08B	PX-120Z
	23	KS656×3ME15	15	3	0.28	127	0.4	116	0.56	95	QRE-09B	PX-130Z
80	24	KS806×2ME15	15	2	0.45	88	0.63	76	0.9	52	QRE-09B	PX-120Z
	25	KS806×2ME18	18.5	2	0.45	109	0.63	97	0.9	70	QRE-09B	PX-130Z
	26	KS806×3ME22	22	3	0.45	134	0.63	120	0.9	84	QRE-10B	PX-S146Z

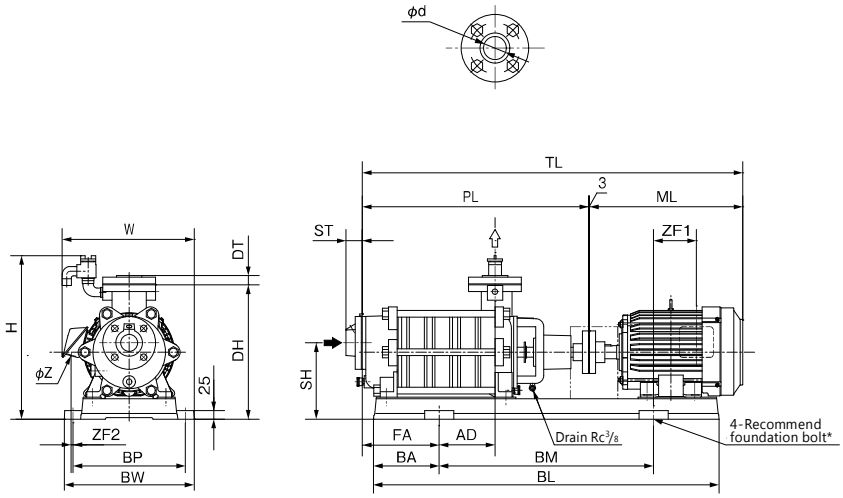
Outline dimension table

Inquire specification sheets and drawings in case of actual work planing

KS

Unit : mm

Bore d	ST	DT
40	45	25
50	48	27
65	48	31
80	53	33



KS/D/000 E

* Foundation bolts are optional accessories · Recommend foundation bolt size: M16×200

50Hz

Unit : mm

Bore d	Model	Motor kW	Pump PL	Base BL	BA	BM	BP	BW	Combinations H	DH	SH	TL	FA	AD	W	ML	ZF1	ZF2	Z	Mass kg
40	KS405×2ME2.2	2.2	505	740	140	500	315	371	481	395	232	820	168	62	—	312	62	−27	27	107
	KS405×3ME3.7	3.7	580	866	183	500	315	367	481	395	232	964	206	99	—	381	146	−6	27	134
	KS405×4ME5.5	5.5	655	1016	193	630	330	382	481	395	232	1109	216	164	388	451	126	6	27	164
50	KS505×2ME3.7	3.7	515	866	183	500	315	367	481	395	225	899	175	65	—	381	112	−6	27	126
	KS505×3ME5.5	5.5	590	916	208	500	330	382	481	395	225	1044	237	78	388	451	170	6	27	153
	KS505×4ME7.5	7.5	665	1016	193	630	330	382	481	395	225	1119	226	164	388	451	126	6	27	173
65	KS655×2ME7.5	7.5	571	918	209	500	355	407	511	425	250	1025	251	7	—	451	137	−7	27	169
	KS655×3ME11	11	646	1076	223	630	385	437	511	425	250	1224	265	68	485	575	182	30	56	216
80	KS805×2ME11	11	601	1016	193	630	385	437	531	445	245	1179	250	30	485	575	152	30	56	206
	KS805×3ME15	15	686	1136	253	630	385	437	531	445	245	1264	315	40	485	575	172	30	56	233
	KS805×3ME18	18.5	686	1136	253	630	385	437	531	445	245	1308	315	40	485	619	216	30	56	253

Note 1) W is omitted in case W≦BW Note 2) <-> shows revers direction to the drawing in this table

KS/d/500 E

60Hz

Unit : mm

Bore d	Model	Motor kW	Pump PL	Base BL	BA	BM	BP	BW	Combinations H	DH	SH	TL	FA	AD	W	ML	ZF1	ZF2	Z	Mass kg
40	KS406×2ME3.7	3.7	505	866	183	500	315	367	481	395	232	889	165	65	–	381	112	−6	27	123
	KS406×3ME5.5	5.5	580	916	208	500	330	382	481	395	232	1034	227	78	388	451	170	6	27	151
	KS406×4ME7.5	7.5	655	1016	193	630	330	382	481	395	232	1109	216	164	388	451	126	6	27	172
50	KS506×2ME5.5	5.5	515	816	158	500	330	382	481	395	225	969	197	43	388	451	135	6	27	140
	KS506×3ME7.5	7.5	590	916	208	500	330	382	481	395	225	1044	237	78	388	451	170	6	27	162
	KS506×4ME11	11	670	1106	238	630	385	437	509	423	253	1248	270	120	485	575	201	30	56	212
65	KS656×2ME11	11	571	1016	193	630	385	437	511	425	250	1149	228	30	485	575	144	30	56	202
	KS656×3ME15	15	646	1136	253	630	385	437	511	425	250	1224	287	46	485	575	160	30	56	227
80	KS806×2ME15	15	601	1076	223	630	385	437	531	445	245	1179	272	8	485	575	130	30	56	217
	KS806×2ME18	18.5	607	1076	223	630	385	437	531	445	245	1229	272	8	485	619	180	30	56	237
	KS806×3ME22	22	693	1136	253	630	425	477	551	465	265	1340	318	37	528	644	227	32	56	289

Note 1) W is omitted in case W≦BW Note 2) <-> shows revers direction to the drawing in this table

KS/d/600 E