



FS513CT-R0E

EBARA END SUCTION VOLUTE PUMP

MODEL FSA

50 Hz



APPLICATION



Water Supply

- Boosting pumpSystem
- High-rise building



Water Circulation

 Circulating of water in Heating and cooling



Industrial Use

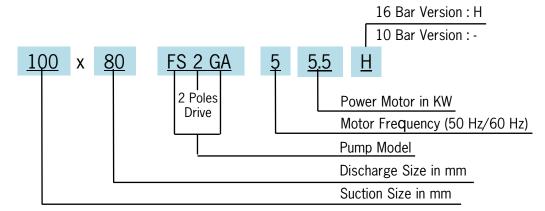
- Liquid transfer

FEATURES

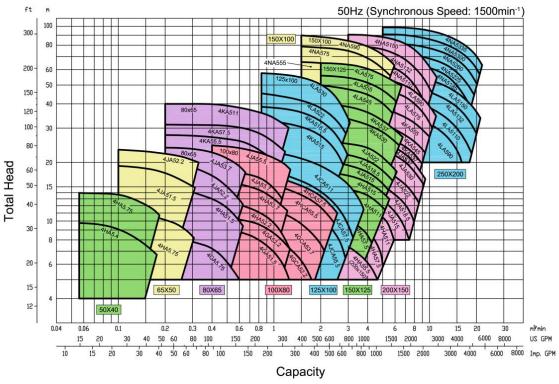
- 1. Easy removal and maintenance, BPO (Back Pull Out) system allows all rotating elements can be removed without disconnecting suction and discharge pipe work.
- 2. Top centreline discharge, foot support under casing for maximum resistance due to misalignment and distortions from pipe loads.
- 3. Non-overload design to ensure stable performance for all applications.
- 4. Wider range application with flow capacity up to 22 m³/min.
- 5. Higher working pressure up to 16 bar.

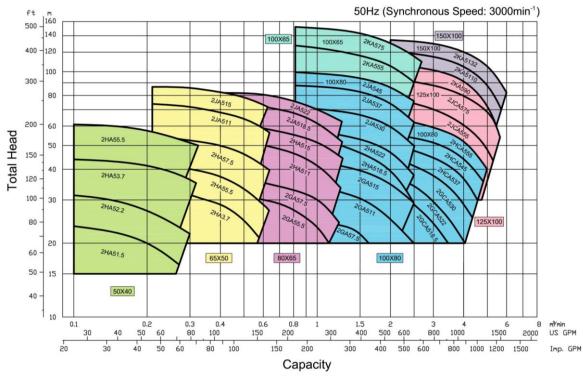
SPECIFICATION

		STAN	IDARD	OPTIONAL								
DESCI	RIPTION	2 Poles Model	4 Poles Model	2 Poles Model	4 Poles Model							
I family	Name	Clean Water										
Liquid	Temperature	0 To 80 ^o C (32 To 176 ^o F)	0 To 80 ^o C (32 To 176 ^o F)									
May Working F)roccuro	10 Bar (10.2 Kgf/Cm ²) For St	tandard Flange JIS 10K RF	16 Bar (16.3	Kgf/Cm ²)							
Max. Working F	ressure	16 Bar (16.3 Kgf/Cm ²) For St	tandard Flange JIS 16K RF									
Synchronous S	peed	3000 Min ⁻¹	1500 Min ⁻¹									
Installation		Indoors		Outdo	ors							
	Impeller	Enclosed										
Canatrustian	Shaft Seal	Mechanical Seal		Gland Pa	acking							
Construction	Sealing	Self Flushing		External Flushing								
	Bearing	Sealed Ball Bearing		Oil Bath (Some Models Only)								
		Suction < ϕ 150 mm, Except 100x65 FSKA	Bellow : JIS 10K RF : JIS 16K RF	16 Bar : JIS 16K RF; DIN PN-16 DIN PN-16								
Flongo	Suction & Discharge	Suction = ϕ 150 mm, Except		16 Bar : JIS 16K RF; DIN PN-16 DIN PN-16								
Flange		150x100 FSKA; 150x100 FSI		16 Bar : JIS 16K RF; DIN PN-16								
		Suction = ϕ 200 mm, Except 200x150 FSLA; 200x150 FSI		DIN PN-16								
		Suction = ϕ 250 mm	: JIS 16K RF	DIN PN-16								
	Casing	Cast Iron		Ductile Cast	Iron (FCD)							
	Impeller	Bronze Casting (CAC406/BC6	5)	Cast I Ductile Cast Iron (FCD)								
Material	Shaft	403 Stainless Steel		304; 316 Stainless Steel								
	Seal	Mechanical Seal: Ceramic/	Carbon/ NBR	Gland Packing : Teflon (PTFE) Impregnated								
				Mechanical So	eal : Sic/Sic							
Acception	Bare Shaft			Priming Funnel; Valve	Companion Flange							
Accessories	With Motor	Common Base, Coupling, Cou	pling Guard	Priming Funnel; Valve; Companion Flange								

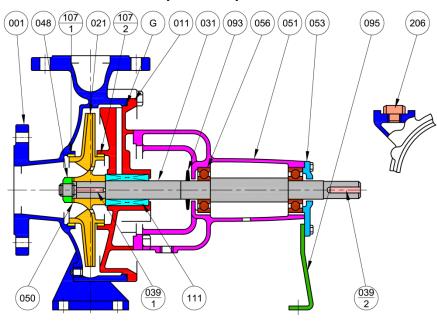


PERFORMANCE CHART



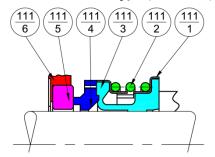


SECTIONAL VIEW (General)



G	O-Ring	Rubber			
206	Plug	Steel			
111	Mechanical Seal	-			
107-2	Casing Ring	Duanta	1		
107-1	Casing Ring	Bronze			
095	Bearing Support	Steel			
093	Deflector	Rubber			
056	Ball Bearing	-	2		
053	Bearing Cover	Cook lyon			
051	Bearing Housing	Cast Iron			
050	Impeller Nut Washer	D			
048	Impeller Nut	Brass			
039-2	Coupling Key		1		
039-1	Impeller Key	Stainless Steel	1		
031	Shaft				
021	Impeller	Bronze			
011	Casing Cover	Cook lyon			
001	Casing	Cast Iron			
No.	Part Name	Material	Qty		

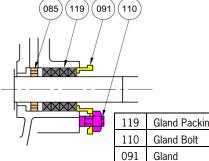
Mechanical Seal Type (Standard)



No.	Part Name	Material	Qty
111-1	Spring Holder	Stainless Steel	
111-2	Coil Spring	Obsides Obsid	
111-3	Bellows	NBR	1
111-4	Seal Ring	Carbon	1
111-5	Matting Ring	Ceramic	
111-6	Cup Gasket	NBR	

Gland Packing Type (Optional)





119	Gland Packing	Non-Asbestos	4 or 5
110	Gland Bolt	Brass	2
091	Gland	1	1
085	Lantern Ring	Bronze	1
No.	Part Name	Material	Qty

Pump Model:

50x40 FSHA; 65x50 FSHA, FSJA;

80x65 FSGA, FSHA;

100x80 FSGA; 125x100 FSLA;

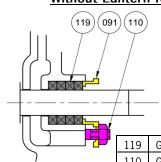
150x100 FSKA, FSNA;

150x125 FSKA, FSLA;

200x150 FSJA, FSLA, FSNA;

250x200 FSLA, FSNA.

Without Lantern Ring



119	Gland Packing	Non-Asbestos	4 or 5
110	Gland Bolt	Brass	2
091	Gland	Bronze	1
No.	Part Name	Material	Qty

Pump Model:

80x65 FSJA, FSKA;

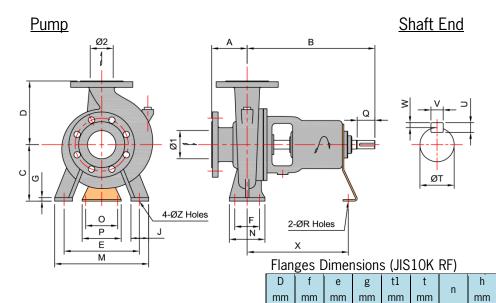
100x65 FSKA;

100x80 FSHA, FSJA, FSGCA, FSHCA;

125x100 FSJCA, FSKA;

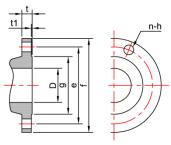
150x125 FSHA, FSJA;

200x150 FSHA, FSKA.



200 330

<u>Flange</u>



Flange Dimensions (JIS 16K RF)

	0 -				-	,	
D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
65	175	140	116	2	22	8	19
100	225	185	160	2	26	8	23
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27

Pump Dimensions

MODEL	SI	ZE	FLANGE		PUMP							SHAFT					Wt							
MODEL	φ1	φ2	STANDARD	Α	В	С	D	Ε	F	G	J	М	N	0	Р	R	Χ	Z	T	Q	U	٧	W	Kg
50x40 FSHA	50	40	JIS 10K	80	360	160	180	190	70	12	50	240	100	110	150	17	285	15	24	50	7	8	4	37
65x50 FSHA	65	50	JIS 10K	100	360	160	180	212	70	12	50	265	100	110	150	17	285	15	24	50	7	8	4	42
65x50 FSJA	0.5	50	JIS TUN	100	360	180	225	250	95	14	65	320	125	110	150	17	285	15	24	50	7	8	4	49
80x65 FSGA				100	360	160	180	212	70	12	50	265	100	110	150	17	285	15	24	50	7	8	4	39
80x65 FSHA	80	65	JIS 10K	100	360	160	200	212	70	12	50	265	100	110	150	17	285	15	24	50	7	8	4	48
80x65 FSJA	80	03	JIS TUN	100	350	180	225	250	95	14	65	320	125	110	150	17	285	15	32	80	8	10	5	60
80x65 FSKA				125	470	225	280	315	120	16	80	400	160	110	150	17	370	19	32	80	8	10	5	108
100x65 FSKA	100	65	JIS 16K	125	360	225	280	315	120	16	80	400	160	110	150	17	285	19	38	80	8	10	5	106
100x80 FSGA				100	360	160	200	212	95	14	65	280	125	110	150	17	285	15	24	50	7	8	4	49
100x80 FSHA				100	360	180	225	250	95	15	65	320	125	110	150	17	285	15	32	80	8	10	5	62
100x80 FSJA	100	80	JIS 10K	100	360	200	250	280	120	15	80	360	160	110	150	17	285	19	32	80	8	10	5	70
100x80 FSGCA				125	360	180	225	250	95	14	65	320	125	110	150	17	285	15	32	80	8	10	5	62
100x80 FSHCA				125	360	180	250	280	95	14	65	345	125	110	150	17	285	15	32	80	8	10	5	65
125x100 FSJCA				140	360	225	280	315	120	16	80	400	160	110	150	17	285	19	38	80	8	10	5	108
125x100 FSKA	125	100	JIS 10K	140	470	250	315	315	120	16	80	400	160	110	150	17	370	19	32	80	8	10	5	128
125x100 FSLA				140	530	280	355	400	150	20	100	500	200	110	150	17	370	24	42	110	8	12	5	168
150x100 FSKA	150	100	JIS 16K	140	530	250	315	315	120	16	80	400	160	90	120	15	373	19	42	95	8	12	5	146
150x100 FSNA	130	100	JIS 10K	180	670	375	450	450	150	20	100	550	200	140	180	19	500	24	48	110	9	14	5.5	365
150x125 FSHA				140	470	250	315	315	120	16	80	400	160	110	150	17	370	19	32	80	8	10	5	120
150x125 FSJA	150	125	JIS 10K	140	470	250	355	315	120	16	80	400	160	110	150	17	370	19	32	80	8	10	5	128
150x125 FSKA	130	123	313 101	140	530	280	355	400	150	16	100	500	200	110	150	17	370	24	42	110	8	12	5	170
150x125 FSLA				140	530	315	400	400	150	20	100	500	200	110	150	17	370	24	42	110	8	12	5	205
200x150 FSHA				160	470	280	355	400	150	18	100	500	200	110	150	17	370	24	32	80	8	10	5	137
200x150 FSJA	200	150	JIS 10K	160	530	280	375	400	150	18	100	500	200	110	150	17	370	24	42	110	8	12	5	183
200x150FSKA				160	670	315	400	450	150	20	100	550	200	140	180	19	500	24	48	110	9	14	5.5	222
200x150 FSLA	200	150	JIS 16K	162	670	315	450	450	150	20	100	550	200	140	180	19	500	24	48	110	9	14	5.5	336
200x150 FSNA	200	150	NO TOV	182	670	375	560	450	150	20	100	550	200	140	180	19	500	24	60	110	11	18	7	488
250x200 FSLA	250	200	JIS 16K	180	670	385	560	560	250	25	100	660	315	140	180	19	500	24	60	110	11	18	7	505
250x200 FSNA	250	200	119 TOW	200	820	435	630	560	250	25	100	660	315	160	200	19	630	27	74	125	12	20	8	642

Unit: mm, unless otherwise stated



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