

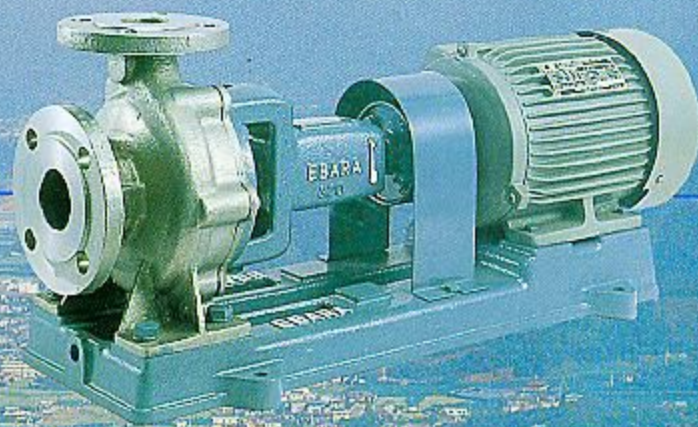


**EBARA**

CF4405UC

# STAINLESS STEEL VOLUTE PUMPS

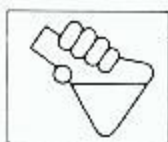
Model FSS



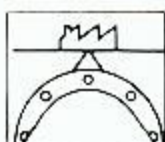
# Numerous Models for a variety of applications

## HIGH EFFICIENCY, COMPACT 2-POLE SERIES UNCOMPARABLE HIGH RELIABILITY—4-POLE SERIES

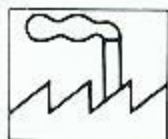
### Applications



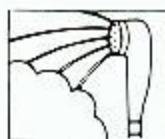
Liquid chemicals



Industrial use



Industrial water



Hot water supply

### Features

- (1) Various models  
Either 2-pole or 4-pole models can be selected in a wide range.
- (2) Easy maintenance  
The pump is B.P.O. (Back-Pull-Out) type that can be disassembled or inspected without removing the piping or heat insulation.
- (3) Structure strongly to resistant piping loads  
The discharge port is located at the center of the casing which is supported by the legs. Therefore, large piping loads can be applied to pump.
- (4) Limit load characteristics  
Limit load characteristics effectively prevent overloading even with large discharge rates

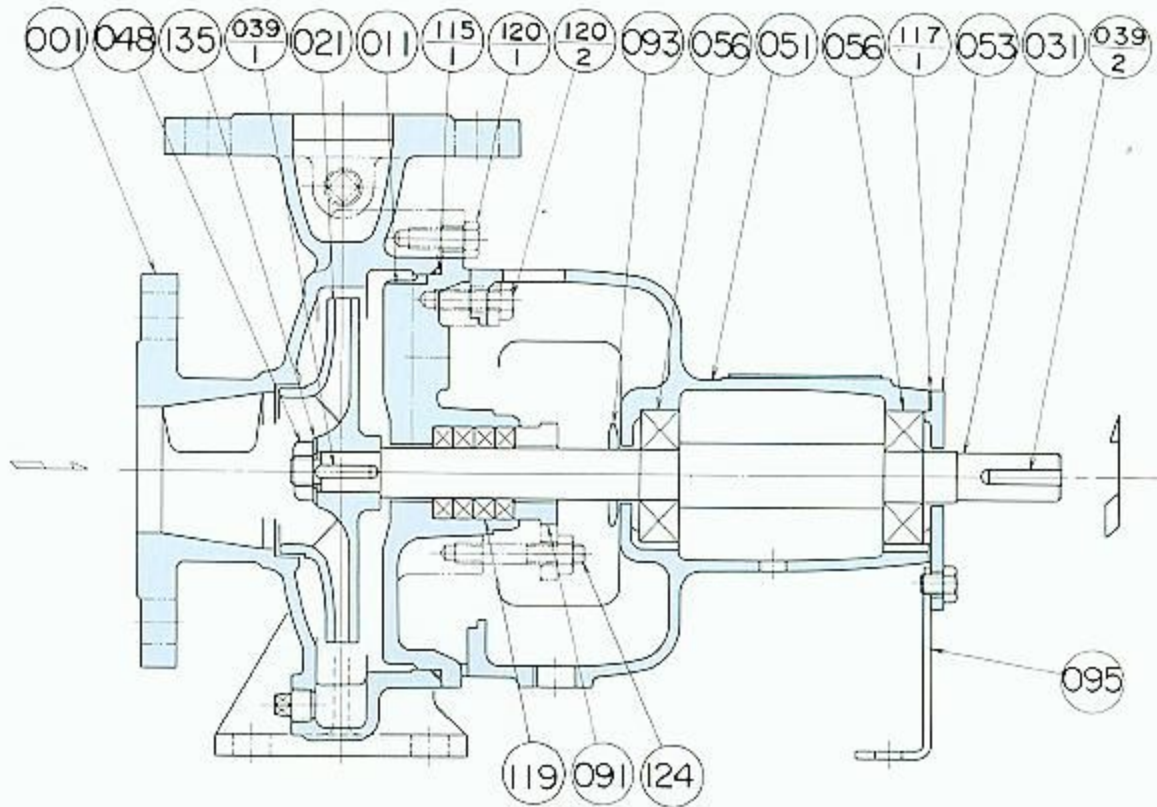
### Specifications

		Standard		Optional	
		2 Pole model	4 Pole model	2 Pole model	4 Pole model
Liquid	Name	Water, oil, liquid chemicals. See the liquids list			
	Temperature	0 to 100°C (32 to 212°F)			
	Viscosity	below 10 cst			
	Specific gravity	0.7 to 1.0			
Re. NPSH		4 m ... Except for Model 100 × 80 (2 pole) 7 m ... Model 100 × 80 (2 pole)			
Installation		Indoors		Outdoors	
Construction	Impeller	Enclosed			
	Shaft seal	Packing			
	Sealing	Self			
	Bearing	Sealed ball bearing			
	Shaft Sleeve	No	No (up to 100 × 80) Yes (125 × 100 and over)	Yes	Yes (100 × 80)
	Casing Ring	No	No (up to 100 × 80) Yes (125 × 100 and over)		
Flange		JIS 10 kg/cm <sup>2</sup> R.F.			
Materials	Casing	18-8 Stainless steel			
	Impeller	18-8 Stainless steel			
	Shaft	304 Stainless steel			
	Sleeve	—	304SS (up to 125 × 100)	304SS	
	Casing ring	—	304SS (125 × 100 and over)	304SS	
	Casing gasket	Fluororubber			PTFE
	Seal	Carbonized fiber			
Accessories	Bare shaft	Ceramic/Carbon, Tungsten Carbide/Carbon			
	With motor	Companion flange with bolts Anchor bolts			

- Note: (1) The 2-pole oil-bath type pump with shaft sleeve cannot be applied singly.  
 (2) The 4-pole oil-bath type pump with shaft sleeve and mechanical seal quench can be applied singly.  
 (3) The 2-pole mechanical seal quench can be applied only with the oil-bath type and shaft sleeve.

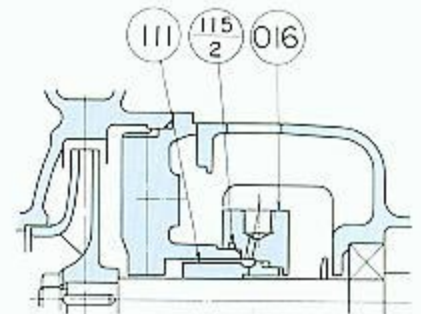
## Sectional view

### Packing type (Standard)



### Mechanical seal type (Optional)

PART NO.	PART NAME	MATERIAL	MATERIAL	NO. FOR 1 UNIT
016	MECHANICAL SEAL COVER	304 STAINLESS	304 STAINLESS	1
111	MECHANICAL SEAL	CERAMIC/CARBON	TUNGSTEN CARBIDE/CARBON	1 SET
115-2	"O" RING	RUBBER (FPM)	RUBBER (FPM)	1

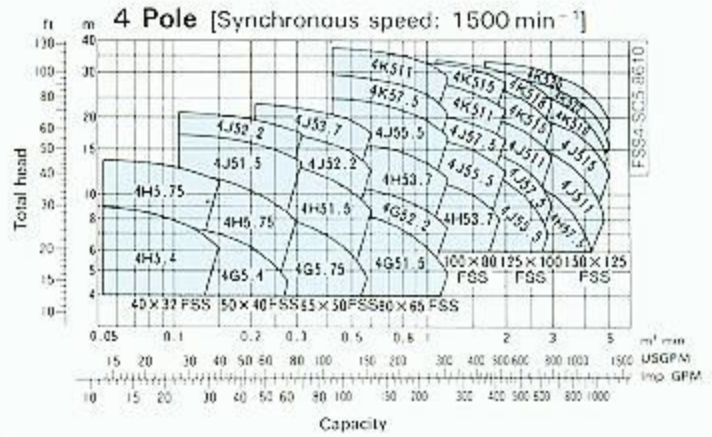
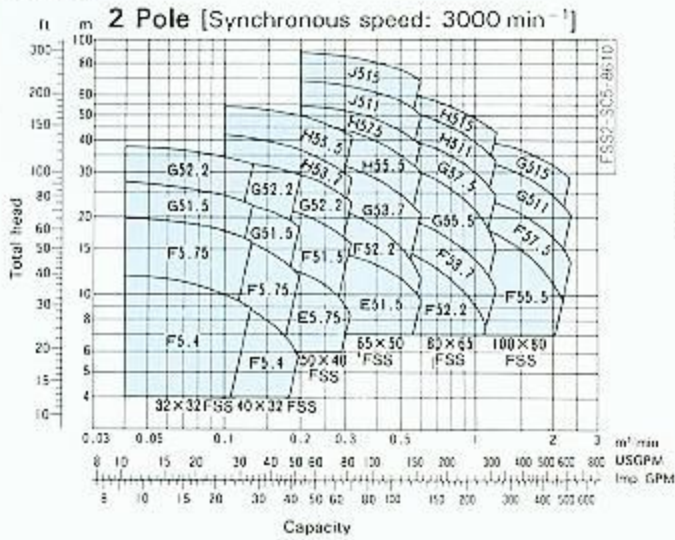


PART NO.	PART NAME	MATERIAL	NO. FOR 1 UNIT
001	CASING	STAINLESS STEEL CASTINGS	1
011	CASING COVER	STAINLESS STEEL CASTINGS	1
021	IMPELLER	STAINLESS STEEL CASTINGS	1
031	SHAFT	304 STAINLESS STEEL	1
039-1	KEY	304 STAINLESS STEEL	1
039-2	KEY	CARBON STEEL	1
048	IMPELLER NUT	304 STAINLESS STEEL	1
051	BEARING CASING	CAST IRON	1
053	BEARING COVER	CAST IRON	1
056	BALL BEARING		2

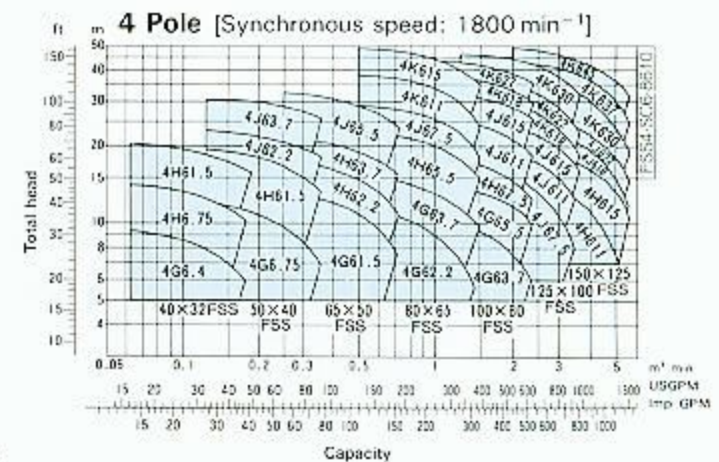
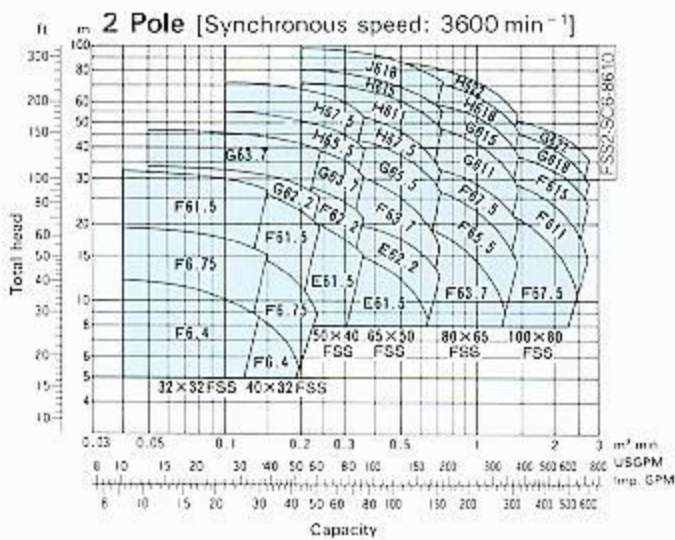
PART NO.	PART NAME	MATERIAL	NO. FOR 1 UNIT
091	GLAND	304 STAINLESS STEEL	1
093	DEFLECTOR	RUBBER	1
095	STAY	STEEL	1
115-1	"O" RING	RUBBER	1
117-1	GASKET	PRESS BOARD	1
119	PACKING	TEFLON IMPREGNATED ASBESTOS	4
120-1	BOLT	304 STAINLESS STEEL	1 SET
120-2	BOLT	STEEL	4
124	GLAND BOLT	304 STAINLESS STEEL	2
135	WASHER	304 STAINLESS STEEL	1

## Selection charts

### 50Hz



### 60Hz



#### Symbols

40 × 32 FSSG 5 2.2

- Motor output kW
- Frequency 50 Hz: 5, 60 Hz: 6
- Model
- Discharge size mm
- Suction size mm

50 × 40 FSS4J 6 2.2

- Motor output kW
- Frequency 50 Hz: 5, 60 Hz: 6
- Model
- Discharge size mm
- Suction size mm

Note: These selection charts indicate liquid with 1.0 specific gravity.







