

**NIKKISO**

**NIKKISO EIKO  
PUMPIA-LAND**

# EIKOFLEX™ PUMP

● **FG/FA-FB/FS**



**NIKKISO EIKO CO., LTD**



## Most Advanced Criterion Here, With New Version "Flexible Rubber Impeller Pump"

EIKOFLEX™ has been considered as most experienced and reliable PUMP in the World for these 35 years in many Countries. This Remarkable Contribution came to a New Stage with Innovations in Quality and Functions.

Respecting User's daily handling, New Version has been developed on the base of Easy Maintenance and High Performance.



### Point 1 - Integrated Cam Casing -

The integrated Cam emerged in Pump Casing makes edges of Impeller be free from abrasion because of no hedge on Cam arrangement.



### Point 2 - Easy Handling Impeller -

Serration type of Impeller Bush makes easy to take in and away Impeller while daily maintenance.



### Point 3 - More reliable O-Ring -

Large diameter line of O-Ring makes not only easy removal from Cover Plate but also tight sealing of it.



### Point 4 - Versatile Drain Ports -

Three direction Ports for drain expand easy piping system for pump installation.



#### Point - 5 - Innovated Shaft & Bearing -

Pre-Assembled Shaft with Deep Groove Shielded Type Ball Bearings eliminates conventional Spacer and is free from grease replenishment.

Shaft & Bearing



#### Point 6 - Excellent Mechanical Seal -

Every Shaft Seal of FG10 - FG65 and FA08 - FA65 makes it standardize to reversible rotation type of high effective Mechanical Seal.



#### Point 7 - Precautional Scraper -

Preventive Scrapers attached to Front and Rear Bearing Housings are effective against liquid and/or dust permeation.



# FG Series

## Stainless Steel made Version

Adaptable for wide range application  
From Food Industries to Drainage Works



FG10



FG15



FG20

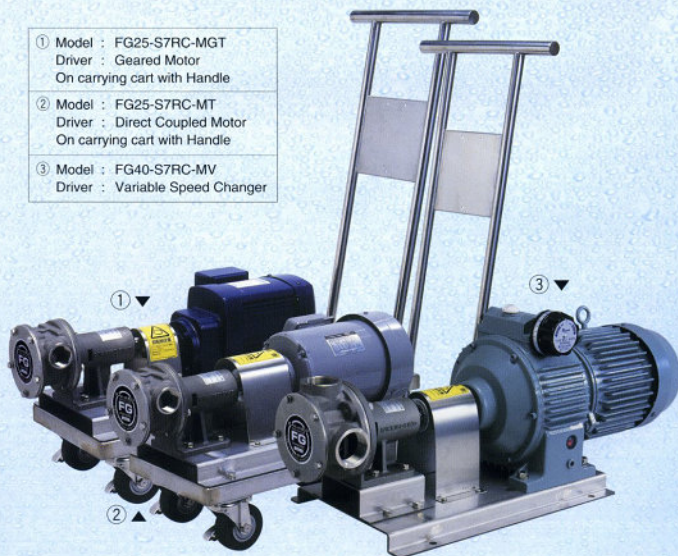


FG25



FG40

- ① Model : FG25-S7RC-MGT  
Driver : Geared Motor  
On carrying cart with Handle
- ② Model : FG25-S7RC-MT  
Driver : Direct Coupled Motor  
On carrying cart with Handle
- ③ Model : FG40-S7RC-MV  
Driver : Variable Speed Changer





FG50



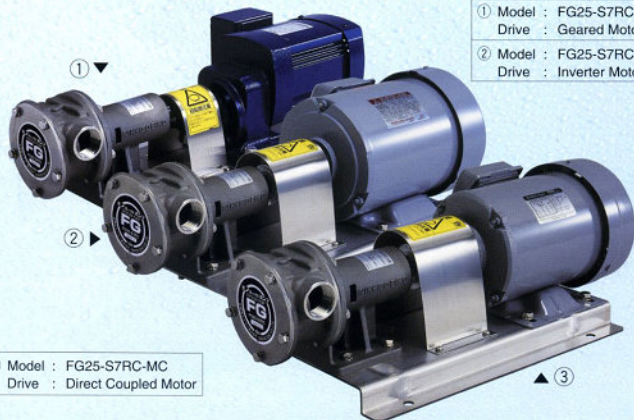
FG65

## ● Specification

Model	FG10	FG15	FG20	FG25	FG40	FG50	FG65
Port Size	RC3/8	RC1/2	RC3/4	RC1	RC1 1/2	RC2	RC2 1/2
Pump Casing Material	SCS13 (Stainless Steel)						
Impeller Material	C R	CR Food grade	●	●	●	●	●
	NBR	NBR Food grade	●	●	●	●	●
Total Head & Capacity	Refer to page 10.						
Suction Lift	C R	4~6m					
	NBR	1~2m	1~2m	1~2m	1~2m	—	—
Expected Impeller Life	C R	3,000-4,000 Hrs (By Water at Normal Temp. with 1,450min-1 on continuous operation in open line)					
	NBR	1,000-1,500 Hrs (By Water at Normal Temp. with 1,450min-1 under the condition of continuous operation in open line)					
Required Motor kW	MC	0.2kW	0.4kW	0.75kW	0.75kW/1.5kW	1.5kW	3.7kW
	MV	0.2kW	0.4kW	0.75kW	0.75kW/1.5kW	1.5kW	3.7kW
	MG	0.4kW	0.4kW	0.4kW	0.4kW/0.75kW	1.5kW	2.2kW
	MCV	0.4kW	0.75kW	0.75kW	1.5kW	2.2kW	7.5kW
Weight	1.6kg	3kg	4kg	6kg	7.5kg	15kg	25kg

#Self Priming Lift shown are of early stage performances at Normal Temp. with 1,450min-1. by Water.

#Exclusively Specified Impellers for Foods are in conformity with the conditions of Standard for Food Appliance and Packaging(Rubber)by Notification No.85 of the Ministry of the Welfare of Japan in 1986.



- ① Model : FG25-S7RC-MG  
Drive : Geared Motor
- ② Model : FG25-S7RC-MCV  
Drive : Inverter Motor

- ③ Model : FG25-S7RC-MC  
Drive : Direct Coupled Motor



# FA/ FB

## Series

### Bronze made Version

Adaptable for wide range application  
From Agriculture Industries to Marine Products  
Industries



FA08



FA10



FA15



FA20



FA/FB25



FA/FB40

— With Magnetic Clutch Coupling Version —



FA50



FA65

Magnetic Clutch Coupling Application is available only to FA25/FB25 - FA65.



FA50



FA65

## ● Specification

Model	FA08	FA10	FA15	FA20	FA25/FB25	FA40/FB40	FA50	FA65
Port Size	RC1/4	RC3/8	RC1/2	RC3/4	RC1	RC1 1/2	RC2	RC2 1/2
Pump Casing Material	BC6 (Bronze)							
Impeller Material	CR Inclined	● —	● —	● —	● —	● —	● —	● —
	NBR	● —	● —	● —	● —	● —	● —	● —
Total Head & Capacity	Refer to page 10.							
Suction Lift	CR	1~2m	4~6m	4~6m	4~6m	3~4m	4~6m	4~6m
	NBR	0.5~1m	1~2m	1~2m	1~2m	—	—	—
Expected Impeller Life	CR	3,000-4,000 Hrs (By Water at Normal Temp. with 1,450min-1 on continuous operation in open line)						
	NBR	1,000-1,500 Hrs (By Water at Normal Temp. with 1,450min-1 under the condition of continuous operation in open line)						
Required Motor kW	MC	0.2kW	0.2kW	0.4kW	0.75kW	0.75kW/1.5kW	1.5kW	3.7kW
	MV	0.2kW	0.2kW	0.4kW	0.75kW	0.75kW/1.5kW	1.5kW	3.7kW
	MG	0.4kW	0.4kW	0.4kW	0.4kW	0.4kW/0.75kW	0.75kW	1.5kW
	MCV	0.2kW	0.4kW	0.75kW	0.75kW	1.5kW	2.2kW	5.5kW
Weight	1.2kg	1.6kg	2.5kg	3.5kg	5.5kg	7kg	15kg	25kg

Self Priming Lift shown are of early stage performances at Normal Temp. with 1,450min-1 by Water



FB40 ※

※The Photos show with Pulley Accessories specified for high speeds rotation.

## FB Series Inclined Impeller (Patent Pending)



### As compared with FA Series Standard Impeller ---

Expected Life Span : Approx. 1.5 times.  
High Speeds Rotation : 2500 min-1 is available .  
Total Energy Saving : Low Torque as Half down with Cost.  
Swishing by the ala of the Impeller Low Noise as half down.  
Reverse Operation shall be not always recommended.



# FS Series

## Sanitary care (Buffing)

Constructed for easy disassembling and Cleaning up  
with Sanitary Care.  
From Milk to Berries



FS40



FS50

### Specification

Model	FS40	FS50	FS65
Port Size	IDF1 1/2	IDF2	IDF2 1/2
Pump Casing Material	SUS304, SCS13 (Stainless Steel)		
Impeller Material	CR Food Grade	—	—
	NBR Food Grade	—	—
Total Head & Capacity	Refer to page 10.		
Suction Lift	C R	4~6m	—
	NBR	1~2m	—
Expected Impeller Life	C R	φ2	—
	NBR	φ3	—
Required Motor kW	MC	1.5kW	3.7kW
	MV	1.5kW	3.7kW
	MG	0.75kW	1.5kW
	MCV	2.2kW	5.5kW
Weight	9kg	14kg	30kg

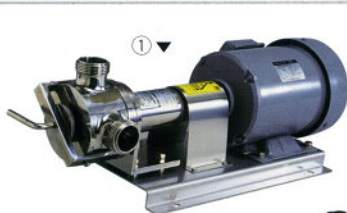


FS65

#Exclusively Specified Impellers for Foods are in conformity with the conditions of Standard for Food Appliance and Packaging(Rubber)by Notification No.85 of the Ministry of the Welfare of Japan in 1986.

#CR Impeller is estimated 3,000-4,000 Hrs life by Water at Normal Temp. with 1,450min-1 under the condition of continuous operation in open line.

#NBR Impeller is estimated 1,000-1,500 Hrs life by Water at Normal Temp. with 1,450min-1 under the condition of continuous operation in open line.



- ① Model : FS40-S7RX-MC  
Drive : Direct Coupled Motor



- ② Model : FS40-S7RX-MT  
Drive : Direct Coupled Motor  
On carrying cart with Handle



# FH/FD Series & FY80

## FH Series



FH10



FH15

**Handy Type with Single Phase & 100 Voltages**  
 Pump Casing Materials SCS13 & BC6

## FD Series



◀ FD10 ( Ebipon)



◀ FD25 (Kanipon)



FD40 (Kanipon)

**Handy Type with DC Motor**  
 For Bulgy Pump, Cooling Pump & Miscellaneous Water Handling Pump on a ship. Drainage Pump on the Car.  
 Pump Casing Material BC6

## FH Series



FH40  
 (New Taipon)



FH50  
 (New Taipon)

**Portable Handy Pump with 3 Phases 200 Voltages**  
 Pump Casing Materials SCS13 & BC6



FY80

**Large Capacity Handling Pump**  
 Sea Laver Handling is one of the remarkable applications in Marine industries.  
 Pump Casing Material BC6

# EIKOFLEX Model Code Chart

<b>FA</b>	<b>50</b>	—	<b>B6</b>	<b>RC</b>	—	<b>K4</b>	<b>SP</b>
①	②		③	④		⑤	⑥

## ① PUMP Series

FG : Stainless Body with Standard Impeller	FY : Bronze Body with interchangeable Blades
FA : Bronze Body with Standard Impeller	FD : Pump Mounting on DC Motor
FB : Bronze Body with Inclined Impeller	FH : Pump Mounting on AC Motor
FS : Sanitary care (Buffing) type	FJ : Pump with Hydraulic Motor

## ② Port Size

Metric	08	10	15	20	25	40	50	65	80
Inch	1/4	3/8	1/2	3/4	1	1 1/2	2	2 1/2	3

## ③ Pump Casing Material

B6 : BC6 (Bronze)
S7 : SUS304, SCS13 (Stainless Steel)

## ④ Impeller Type / Material

RC : Standard, Chloroprene Rubber	RY : Standard, Nitrile Butadiene Rubber, Food grade
RX : Standard, Chloroprene Rubber, Food grade	AC : Inclined, Chloroprene Rubber
RB : Standard, Nitrile Butadiene Rubber	GC : Interchangeable, Chloroprene Rubber

## ⑤ Drive and cart

MC : AC Motor direct coupled	K2 : Magnetic Clutch (DC12V)
MV : AC Motor with Speed Changer	K4 : Magnetic Clutch (DC24V)
MG : AC Geared Motor	M1 : AC single phase Motor mount
MGV : AC Geared Motor(Inverter Motor)	M2 : AC three phase Motor mount
MCV : AC Inverter Motor direct coupled	D2 : DC12V Motor mount
MT : AC Motor direct coupled with Cart	D4 : DC24V Motor mount
VT : AC Motor with Speed Changer, and with Cart	T2 : DC12V Motor mount with Timer
MGT : AC Geared Motor with Cart	T4 : DC24V Motor mount with Timer
MGVT : AC Geared Motor(Inverter Motor) with Cart	N2 : DC12V Motor mount with Automatic Drain Switch
MCVT : AC Inverter Motor direct coupled with Cart	N4 : DC24V Motor mount with Automatic Drain Switch
	EC : Engine direct coupled
	EH : Engine mount

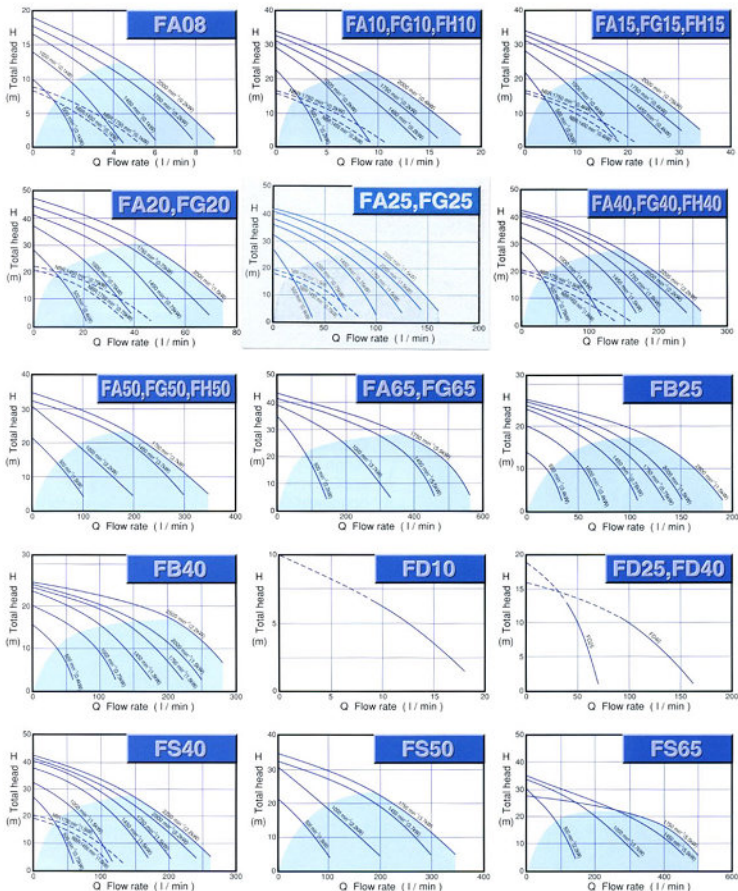
## OPTION

1. With Abrasive Slurry Handling, specified Wear- Proof Parts are available for your application. Please contact to our Distributor
2. Slip-on Flared Type Connector, Pipe Flanged Type Connector, Hose, ON-OFF Switch Box and other required Parts/Accessories are available for any application. Please contact to our Distributor

## NOTICE

1. EIKOFLEX™ PUMP is not serviceable against Solvents such as Gasolin, Thinner and Others as same as Organic Acids, Strong Acids, Strong Alkaline Liquids and Others.
2. Allowable range of Liquid at Temp. 5 - 60°C
3. Allowable range of Atmosphere at Temp. 0 - 40°C
4. To refrain from Dry Operation

# Basic Performance Curves



1. THE PUMP PERFORMANCE DATA shown are based on the condition of the CR Impellers at Normal Temperature by Water. Consequently, these are of different from the condition of Slurry and/or Viscous Handling Performance.
2. Recommendable to use in Coloured Zone illustrated. Otherwise, the performance will be deteriorated within a short time.