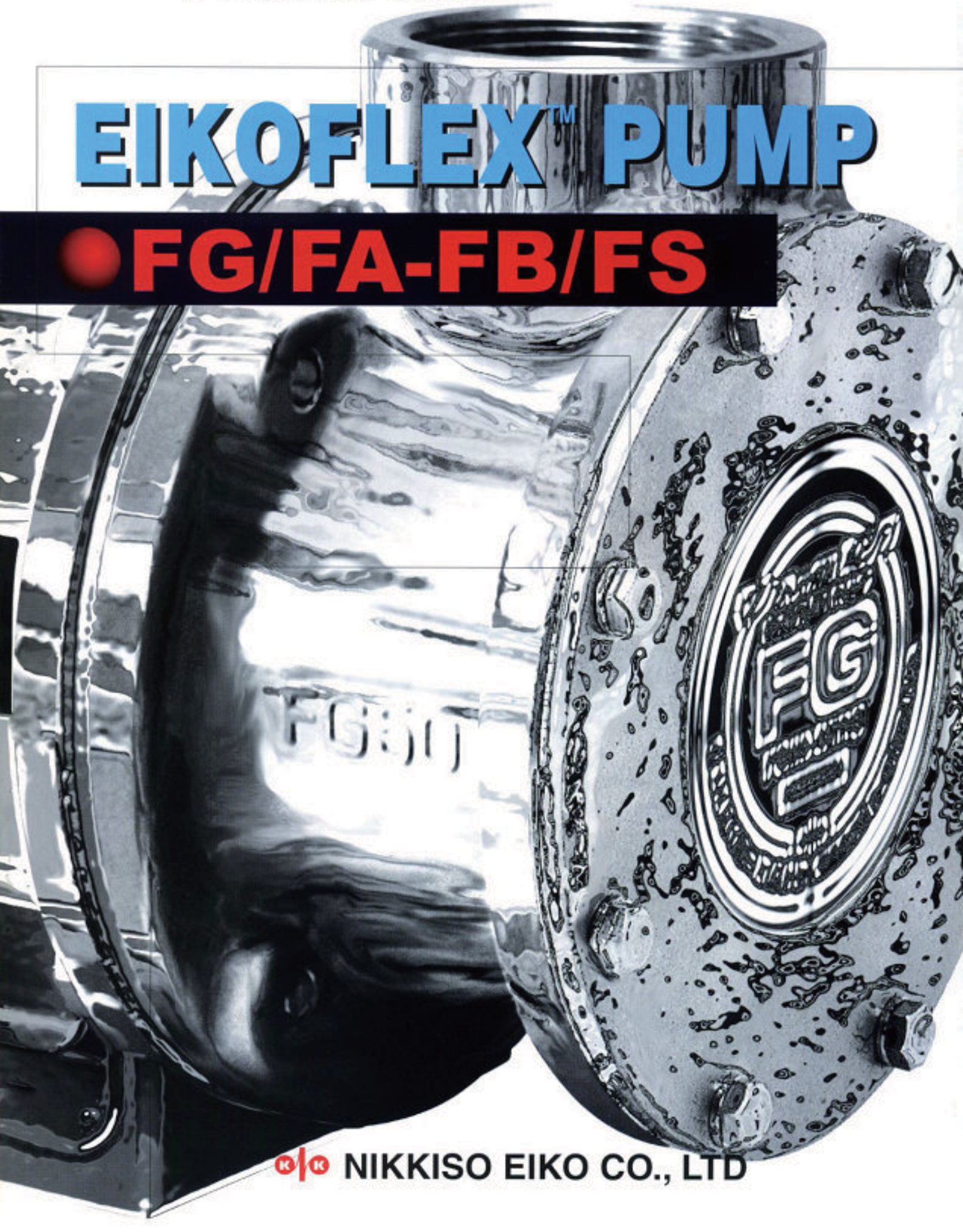
Catalog No.CFP-99053

NIKKISO

NIKKISO EIKO
PUMPIA-LAND

EIKOFLEX™ PUMP

FG/FA-FB/FS



NIKKISO EIKO CO., LTD

MOST EXPERIENCED TECHNOLOGIES

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.

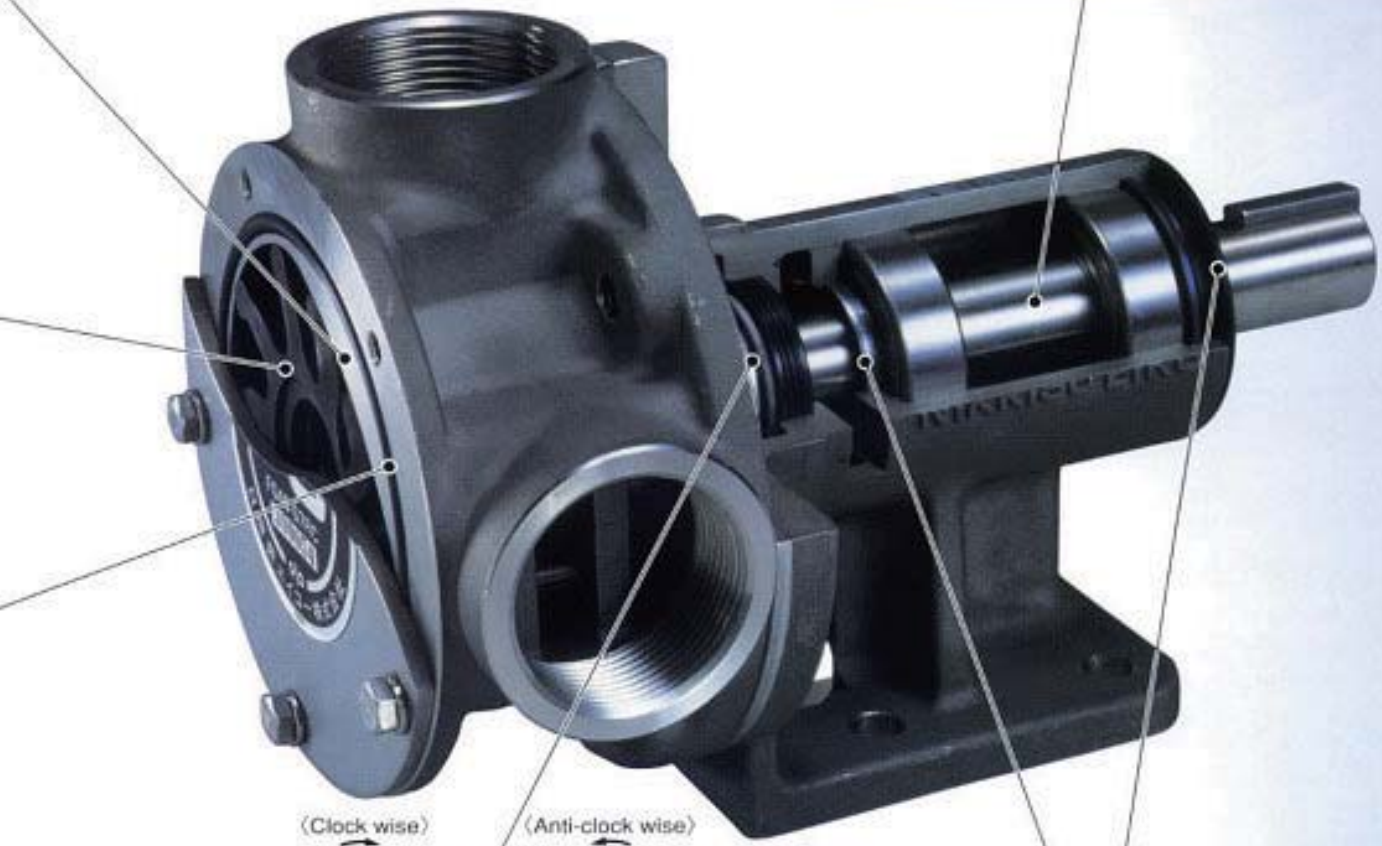
Point 4 - Versatile Drain Ports -
Three direction Ports for drain expand easy piping system for pump installation.

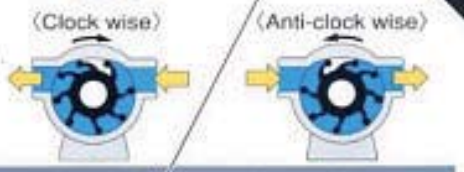
Advanced EIKOFLEX™ PUMP

Innovated 7 Points

Point - 5 - Innovated Shaft & Bearing -

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





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		1~2m		—		—	
Expected Impeller Life	C R		3,000-4,000 Hrs (By Water at Normal Temp. with 1,450min-1 on contenuous operation in open line)													
	NBR		1,000-1,500 Hrs (By Water at Normal Temp. with 1,450min-1 under the condition of contenuous operation in open line)										—		—	
Required Motor kW	MC		0.2kW		0.4kW		0.75kW		0.75kW/1.5kW		1.5kW		3.7kW		5.5kW	
	MV		0.2kW		0.4kW		0.75kW		0.75kW/1.5kW		1.5kW		3.7kW		5.5kW	
	MG		0.4kW		0.4kW		0.4kW		0.4kW/0.75kW		1.5kW		1.5kW		2.2kW	
	MCV		0.4kW		0.75kW		0.75kW		1.5kW		2.2kW		5.5kW		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 **Agricaluture 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	4~6m	4~6m	4~6m	4~6m
						3~4m	3~4m		
	NBR	0.5~1m	1~2m	1~2m	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 contenuous operation in open line)							
	NBR	1,000-1,500 Hrs (By Water at Normal Temp. with 1,450min-1 under the condition of contenuous operation in open line)						—	—
Required Motor kW	MC	0.2kW	0.2kW	0.4kW	0.75kW	0.75kW/1.5kW	1.5kW	3.7kW	5.5kW
	MV	0.2kW	0.2kW	0.4kW	0.75kW	0.75kW/1.5kW	1.5kW	3.7kW	5.5kW
	MG	0.4kW	0.4kW	0.4kW	0.4kW	0.4kW/0.75kW	0.75kW	1.5kW	2.2kW
	MCV	0.2kW	0.4kW	0.75kW	0.75kW	1.5kW	2.2kW	5.5kW	7.5kW
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

FA40

FB40※

※The Photos show with Pully 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.
Swashing 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	CR	4~6m		
	NBR	1~2m	—	—
Expected Impeller Life	CR	Φ2		
	NBR	Φ3	—	—
Required Motor kW	MC	1.5kW	3.7kW	5.5kW
	MV	1.5kW	3.7kW	5.5kW
	MG	0.75kW	1.5kW	2.2kW
	MCV	2.2kW	5.5kW	7.5kW
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 contenuous 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 contenuous operation in open line.

①▼

②▼

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

Handy Type with Single Phase & 100 Voltages

Pump Casing Materials SCS13 & BC6

FD Series

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

Portable Handy Pump with 3 Phases 200 Voltages

Pump Casing Materials SCS13 & BC6

Large Capacity Handling Pump

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

EIKOFLEX Model Code Chart

FA	50	–	B6	RC	–	K4	SP
①	②		③	④		⑤	⑥

① PUMP Series

FG : Stainless Body with Standard Impeller
FA : Bronze Body with Standard Impeller
FB : Bronze Body with Inclined Impeller
FS : Sanitary care(Buffing) type
FY : Bronze Body with interchangeable Blades
FD : Pump Mounting on DC Motor
FH : Pump Mounting on AC Motor
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
RX : Standard, Chloroprene Rubber, Food grade
RB : Standard, Nitrile Butadiene Rubber
RY : Standard, Nitrile Butadiene Rubber, Food grade
AC : Inclined, Chloroprene Rubber
GC : Interchageable, Chloroprene Rubber

⑤ Drive and cart

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

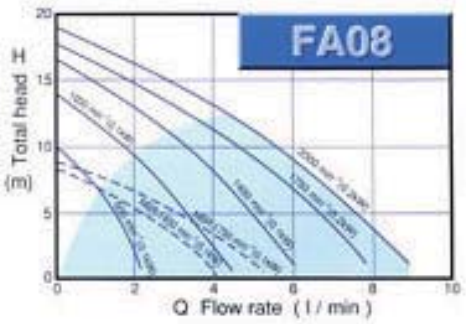
OPTION

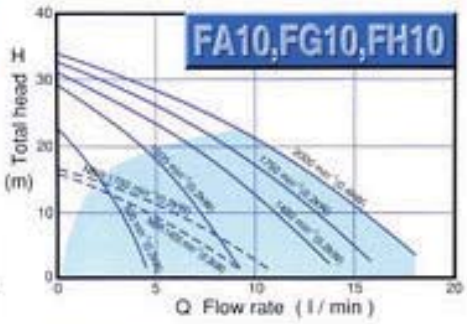
1. With Abrasive Slurry Handling, specified Wear- Proof Parts are available for your application. Please contact to our Distributor
2. Slip-on Flared Type Connector, Pipe Flanged Type Connector, Hose, ON-OFF Switch Box and other required Parts/Accessaries are available for any application. Please contact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

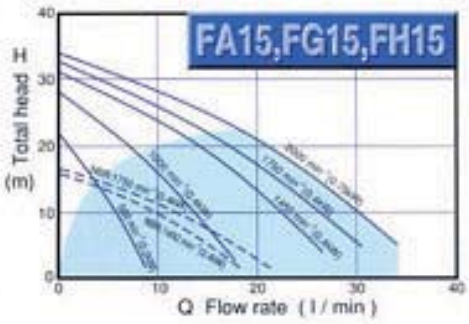
NOTICE

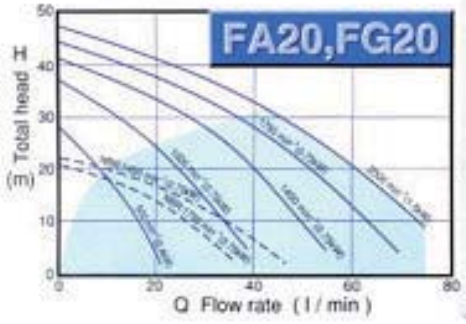
1. EIKOFLEX™ PUMP is not serviceable against Solvents such as Gasolin, Thinner and Others as same as Organic Acids, Strong Acids, Strong Alkaline Liquids and Others.
2. Allowable range of Liquid at Temp. 5 - 60°C
3. Allowable range of Atomosphare at Temp. 0 - 40°C
4. To refrain from Dry Operation

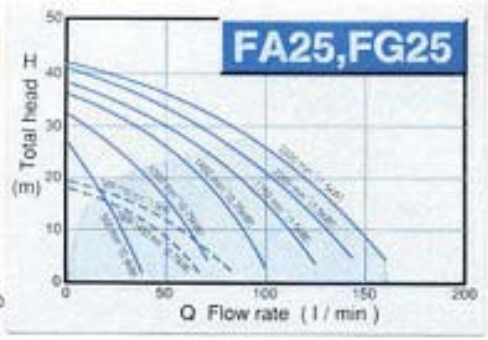
Basic Performance Curves

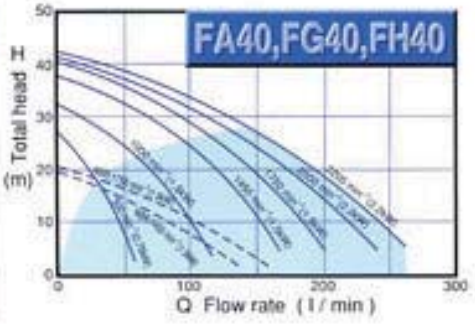


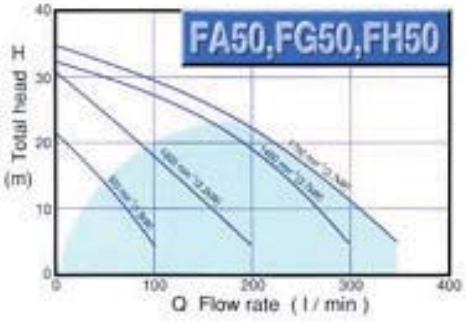


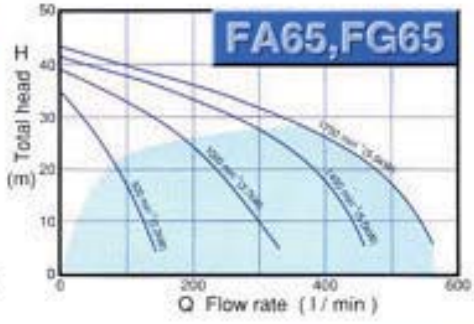


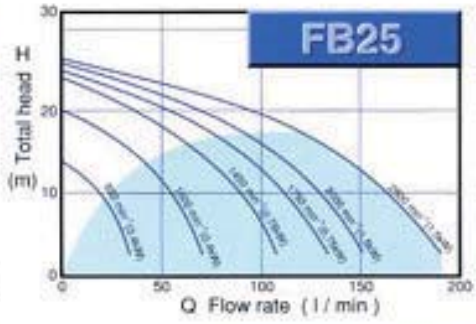


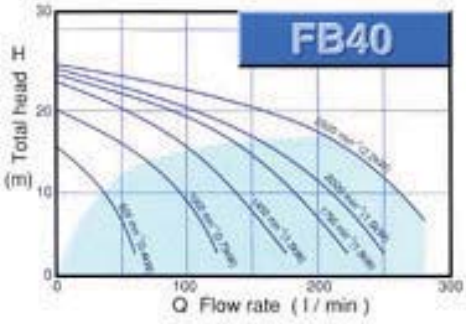


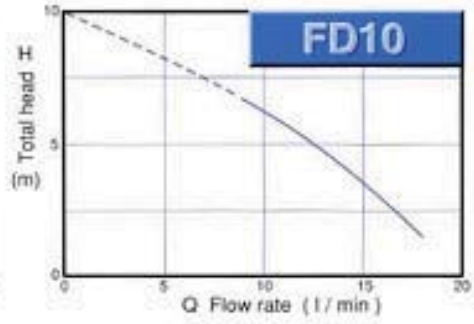


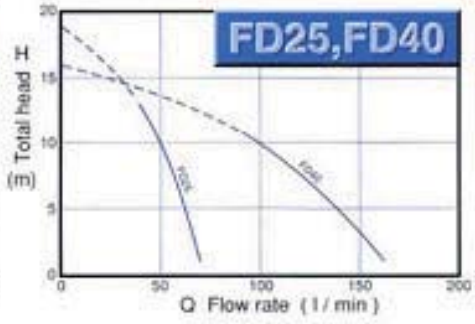


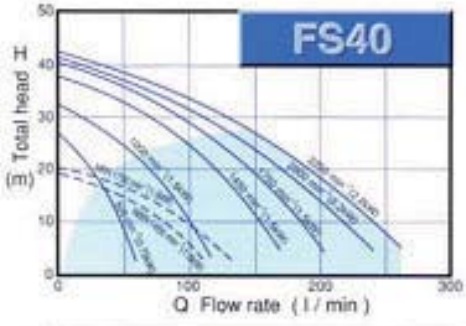


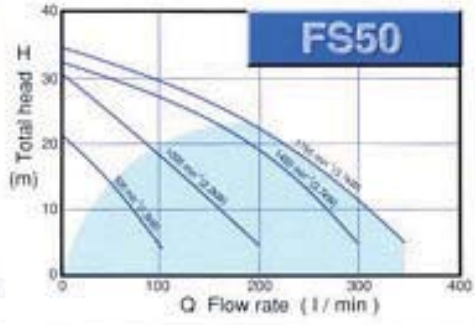


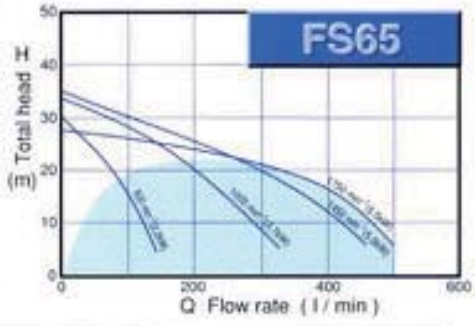












1. **THE PUMP PERFORMANCE DATA shown are based on the condition of the CR Impellers at Normal Temperature by Water. Consequently, these are of different from the condition of Slurry and/or Viscouse Handling Performance.**
2. **Recommendable to use in Coloured Zone illustrated. Otherwise, the performance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