





1-2. Magnet Drive Seal-less Pumps SLF Series

SLF-Series is superior in corrosion resistance, heat resistance, withstand pressure, the durability

			
SLF-L4 · H4	SLF-RE5	SLF-A Series	DRY RUN PROTECTOR

FEATURES

- Small-sized and high-performancde
- High temperature running is possible (under 100°C), (0.4kW~18.5kW)

APPLICATIONS

- Corrosive chemical liquid, acids and alkalis
- Photograph developers, photograph filters, bleaches, inks
- Seawater, Saltwater, pure water
- Soy sauce, vinegar, juices
- plating solutions, surface treatment Liquid
- Medical equipment, scientific Liquid, pharmaceuticals, cosmetics
- electronic component etching Liquid Photoengraving Liquid
- dyeing equipment, waste liquid treatment equipment, processes,
- Hot water circulation , freezers, water-cooled show cases, air conditioners
- drink vending machines, ice machines
- laboratories, test chambers, test plants

The material of the impeller that contacts the liquid must be selected to match the above applications. Please contact ELEPON E.C.A.P. Corporation (ecap@elepon.co.jp) when selecting a model. Some models cannot be used depending on the sort of chemicals. Please inform us of the name of the liquid you will be using.

MODEL CODE

MODEL			Caliber of inhalation mouth	Impeller bracket	O-ring Gasket Materials	Electric motor output	Main body material	Bearing composition	Motor	
		①	②	③	④	⑤	⑥	⑦	⑧	⑨
SLF	-	S	5	1	F	07	G	F	2	S

① MODEL

L	Low lift · Low flow quantity
H	High lift · Low flow quantity
RE	Standard type
T/A	“Low flow quantity” to “Large flow quantity” Widespread model
S	Self priming type

② Caliber of inhalation mouth

4	40A
5	50A
8	80A

※In the following tables, ① and ② are additionally assumed to be Type.

③ Impeller bracket (L/min – m)

※Special size is assumed to be "S".

【50Hz】

	Type									
	L4	H4	RE5	T4	T5	S4	S5	A4	A8	A10
1	60-7	50-20	200-10	100-20	400-18	100-10	100-10	250-34	500-12	700-16
3	-	50-25	250-15	100-25	400-23	-	100-15	250-38	500-22	700-28
5	-	50-30	350-20	100-30	400-27	-	100-17	250-48	500-33	700-37
7	-	50-35	350-25	100-35	-	-	100-20	250-52	500-36	-
9	-	-	-	100-40	-	-	100-22	-	-	-

【60Hz】

	Type									
	L4	H4	RE5	T4	T5	S4	S5	A4	A8	A10
0	-	-	-	100-20	-	-	100-12	-	-	-
2	60-10	50-20	200-10	100-25	400-20	100-11	100-15	250-48	500-23	700-22
4	-	50-25	250-15	100-30	400-25	-	100-17	250-58	500-30	700-34
6	-	50-30	350-20	400-35	400-30	-	100-20	250-70	500-46	700-47
8	-	50-35	350-25	100-40	-	-	100-22	250-75	500-55	

④ O-ring Gasket Materials

◎: Standard MODEL ○: Prestandard ×: not possible to correspond.

	Materials	Type									
		L4	H4	RE5	T4	T5	S4	S5	A4	A8	A10
F	FKM	◎	◎	◎	×	×	◎	◎	×	×	×
E	EPDM	○	○	○	×	×	○	○	×	×	×
P	PTFE	×	×	×	◎	◎	×	×	◎	◎	◎
Z	Besides the above (AFLAS®)	○	○	○	×	×	×	×	×	×	×

⑤ Electric motor output

◎: Possible to build it in.

○: Possible to build it in by custom-designed.

×: Not possible to build it in.

	Motor output (kW)	Type									
		L4	H4	RE5	T4	T5	S4	S5	A4	A8	A10
04	0.4	◎4P	×	×	○	×	×	○	×	×	×
07	0.75	×	◎	◎	◎	×	◎	○	×	×	×
15	1.5	×	◎	◎	◎	○	×	◎	×	×	×
22	2.2	×	○	◎	◎	○	×	◎	×	○	×
37	3.7	×	×	○	◎	◎	×	×	○	◎	○
55	5.5	×	×	×	◎	◎	×	×	◎	○	◎
75	7.5	×	×	×	×	×	×	×	◎	○	◎
110	11	×	×	×	×	×	×	×	◎	◎	◎
150	15	×	×	×	×	×	×	×	○	◎	◎

180	18.5	×	×	×	×	×	×	×	×	○	×	◎	×	◎		
										Hz	50	60	50	60	50	60

⑥ Main body material

◎:Standard MODEL ○:Prestandard ×:not possible to correspond.

	Materials	Type									
		L4	H4	RE5	T4	T5	S4	S5	A4	A8	A10
P	PVDF	◎	◎	◎	×	◎	×	○	×	×	×
E	EFTE	○	○	○	×	○	×	×	×	×	×
F	PFA	×	×	×	◎	○	×	×	◎	◎	◎
G	PP	×	×	×	×	×	◎	◎	×	×	×
Z	Besides the above	×	×	×	×	×	×	×	×	×	×

⑦ Bearing composition

	Main Shaft	Front Thrust Ring	Rear Thrust Ring	Front·Bearing	Rear·Bearing Mouth Ring
A	Alumina Ceramics			C-PTFE	
B	Sic Ceramics				
C	Sic Ceramics			High density carbgon	
E	Sic Ceramics			C-PTFE	
F	Alumina Ceramics			High density carbgon	
G	Alumina Ceramics			C-PTFE	
Z	Combination other than the above				

◎:Standard MODEL ○:Prestandard ×:not possible to correspond.

	L4	H40 to H44	L45 to H48	RE5	T4	T5	S4	S5	A4	A8	A10
A	◎	◎	◎	◎	◎	◎	○	○	×	×	×
B	×	×	○	○	○	○	×	○	○	○	○
C	×	×	×	×	×	×	×	○	◎	◎	◎
E	○	○	○	○	○	○	×	○	○	○	○
F	×	×	×	×	○	○	◎	◎	×	×	×
G	×	×	×	×	○	○	×	○	×	×	×
Z	-	-	-	-	-	-	-	-	-	-	-

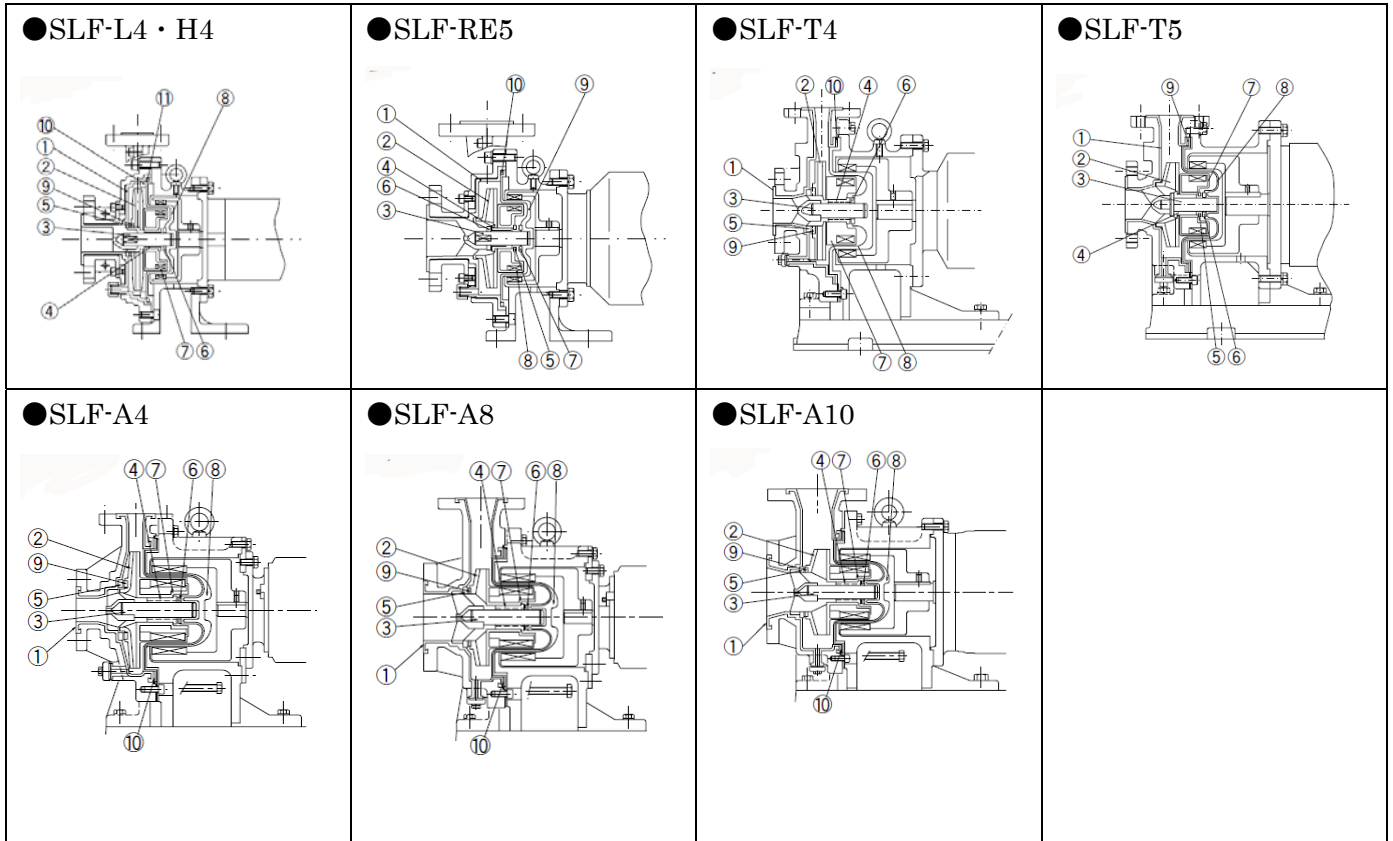
⑧ Motor

2	200V (50Hz/60Hz)
3	220V (60Hz)
4	380V (50Hz)
5	400V (50Hz /60Hz)
6	415V (50Hz)
7	440V (60Hz)
Z	Other Example: 220V (50Hz), 115V (50Hz), 380V(60Hz), 460V(60Hz)

⑨ Motor

S	Exclusive use outdoor type
A	Exclusive use increased safty explosion-proof type motors (Outdoor)
T	Flame-proof and explosion-proof type motors (Outdoor)
C	General-purpose electric motor

CONSTRUCTIONS



MODEL	SLF-L4, H4	MODEL	SLF-RE5	MODEL	SLF-T4	SLF-A4,A8, A10	MODEL	SLF-T5
① Pump Casing	PVDF	① Pump Casing	PVDF	① Pump Casing	PFA+FCD	PFA+FCD	① Pump Casing	PVDF+FCD
② Impeller	PVDF	② Impeller	PVDF	② Impeller	PFA	PFA	② Impeller	PVDF
③ Main Shaft	Ceramics	③ Main Shaft	Ceramics	③ Main Shaft	Ceramics	SiC	③ Main Shaft	Ceramics
④ Bearing	Special PTFE	④ Front Bearing	Special PTFE	④ Bearing	Special PTFE	Carbon/PTFE/SiC	④ Front Bearing	Special PTFE
⑤ Front Thrust	Ceramics	⑤ Rear Bearing	Special PTFE	⑤ Front Thrust Ring	Ceramics	SiC	⑤ Rear Bearing	Special PTFE
⑥ Rear Thrust	Ceramics	⑥ Front Thrust	Ceramics	⑥ Rear Thrust Ring	Ceramics	SiC	⑥ Rear Thrust	Ceramics
⑦ Magnet lining	PVDF	⑦ Rear Thrust	Ceramics	⑦ Magnet lining	PFA	PFA	⑦ Magnet Lining	PVDF
⑧ Rear Casing	PVDF + Carbon	⑧ Magnet lining	PVDF	⑧ Rear Casing	PFA	PFA	⑧ Rear Casing	PFA
⑨ Mouth Ring	PTFE	⑨ Rear Casing	PVDF + Carbon	⑨ Mouth Ring	Special PTFE	Carbon/PTFE/SiC	⑨ Casing Gasket	PTFE
⑩ Casing Ring	PVDF	⑩ O-ring (Casing)	FKM	⑩ Casing Gasket	PTFE	PTFE		
⑪ O-ring (Casing)	FKM							

SPECIFICATIONS

【50Hz】

MODEL	Connection Size Suction × Discharge (mm)	Capacity (L/min)	Total Head (m)	Motor Output (kW)	NPSH Re (m)	Weight (without motor) (kg)	
SLF-L41	40A×20A	60	7	0.4(4P)	1.8	36(with motor)	
SLF-H41	40A×20A	50	20	0.75 ↕ 2.2	2.2	36(with motor)	
SLF-H43			25			0.75kW:39	
SLF-H45			30			1.5kW:45	
SLF-H47			35			2.2kW:49 (with motor)	
SLF-RE51			50A×40A			200	10
SLF-RE53	250	15		2.8	1.5kW:46		
SLF-RE55	350	20		5.5	5.5	2.2kW:50	
SLF-RE57		25				3.7kW:60 (with motor)	
SLF-T41	40A×25A	100	20	0.75 ↕ 5.5	2.5	0.75/2.2kW:53 3.7kW:61 5.5kW:63	
SLF-T43			25				
SLF-T45			30				
SLF-T47			35				
SLF-T49			40				
SLF-T51	50A×40A	400	18	3.7 ↕ 5.5	2.5	3.7kW:70 5.5kW:72	
SLF-T53			23				
SLF-T55			27				
SLF-A41	40A×25A	250	34	5.5 ↕ 15.0	3.2	5.5kW:120 7.5kW:120 11/15kW:130	
SLF-A43			38				
SLF-A45			48				
SLF-A47			52				
SLF-A81	80A×50A	500	12	3.7 ↕ 15.0	4.3	3.7kW:100 5.5/7.5kW:120 11/15kW:130	
SLF-A83			22				
SLF-A85			33				
SLF-A87			36				
SLF-A101	100A×80A	700	16	5.5 ↕ 15.0	4.5	5.5/7.5kW:140 11/15kW:150	
SLF-A103			28				
SLF-A105			37				

【60Hz】

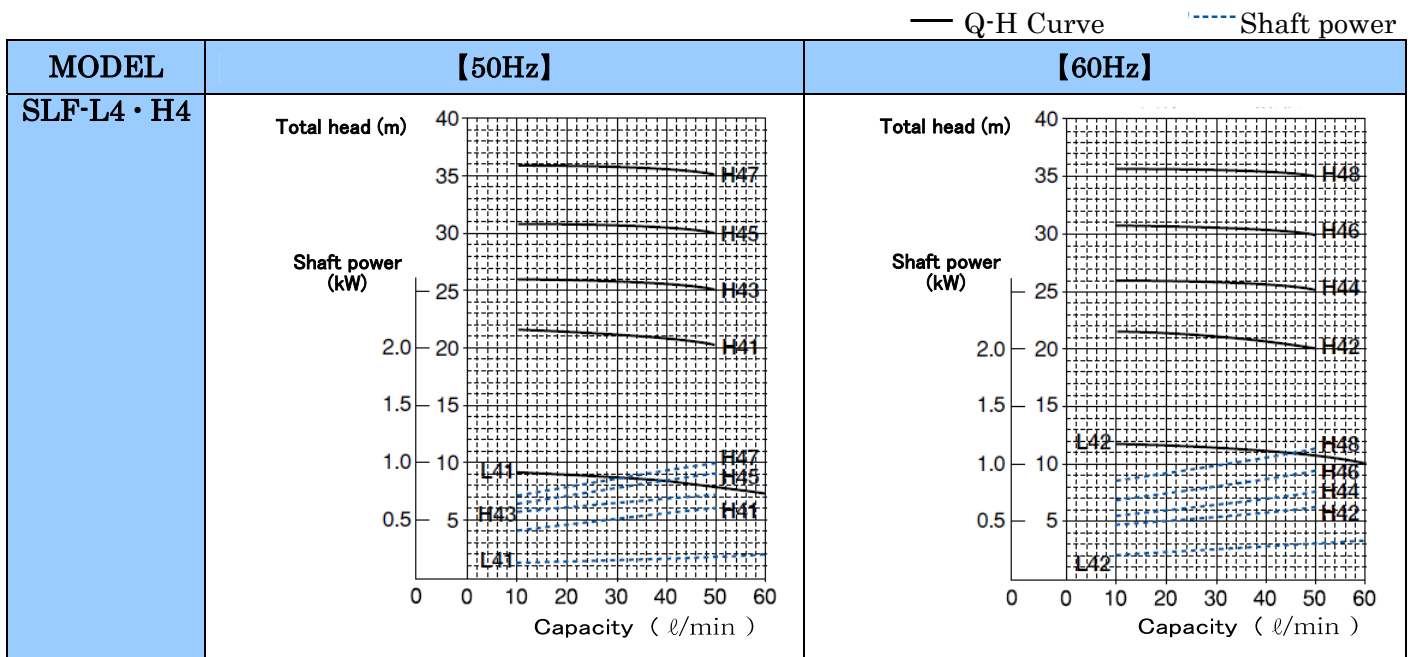
MODEL	Connection Size Suction × Discharge JIS10K (mm)	Capacity (L/min)	Total Head (m)	Motor Output (kW)	NPSH Re (m)	Weight (without motor) (kg)	
SLF-L42	40A×20A	60	10	0.4(4P)	2.0	36(with motor)	
SLF-H42	40A×20A	50	20	0.75 ↕ 2.2	2.6	36(with motor)	
SLF-H44			25			0.75kW:39	
SLF-H46			30			1.5kW:45	
SLF-H48			35			2.2kW:49 (with motor)	
SLF-RE52			50A×40A			200	10
SLF-RE54	250	15		3.6	1.5kW:46		
SLF-RE56	350	20		6.6	6.6	2.2kW:50	
SLF-RE58		25				3.7kW:60 (with motor)	
SLF-T40	40A×25A	100	20	0.75 ↕ 5.5	3.0	0.75/2.2kW:53 3.7kW:61 5.5kW:63	
SLF-T42			25				
SLF-T44			30				
SLF-T46			35				
SLF-T48			40				

SLF-T52	50A×40A	400	20	3.7 ↕ 5.5	2.5	3.7kW:70 5.5kW:72
SLF-T54			25			
SLF-T56			30			
SLF-A42	40A×25A	250	48	7.5 ↕ 18.5	3.6	7.5kW:120 11/18.5kW:130
SLF-A44			58			
SLF-A46			70			
SLF-A48			75			
SLF-A82	80A×50A	500	23	7.5 ↕ 18.5	5.2	7.5kW:120 11/18.5kW:130
SLF-A84			30		6.8	
SLF-A86			46			
SLF-A88			55			
SLF-A102	100A×80A	700	22	7.5 ↕ 18.5	5.2	7.5kW:140 11/18.5kW:150
SLF-A104			34		6.6	
SLF-A106			43			

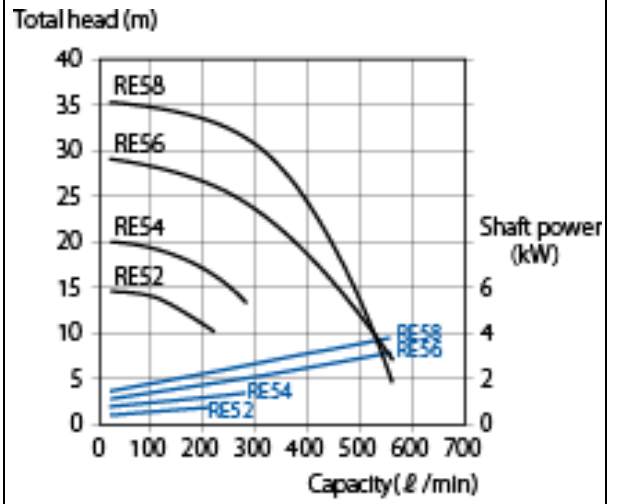
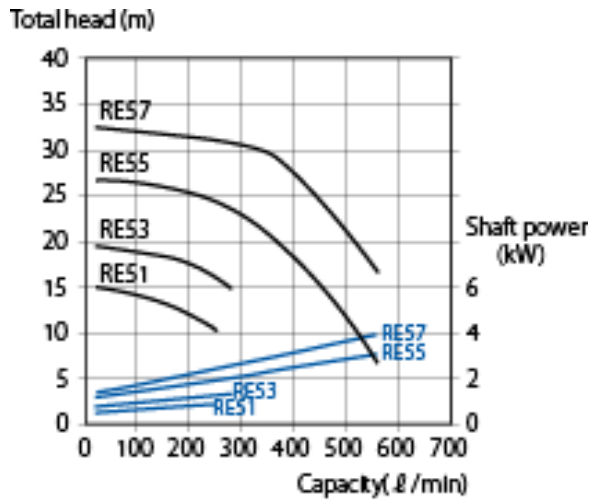
*Note

- The performances of above table are based on the test results with clean water at normal room temperature .
- Maximum temperature of liquid : 90°C
- Judging from the motor side, the natatory direction is clock direction
- Paint color: Munsell 2.5B4/8
- Standard accessories: Anchor bolts
- The motor can be changed to fit the specific gravity of the liquid (Special order)

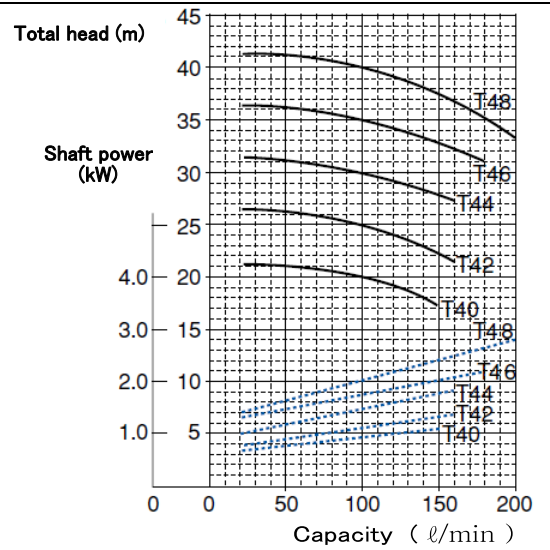
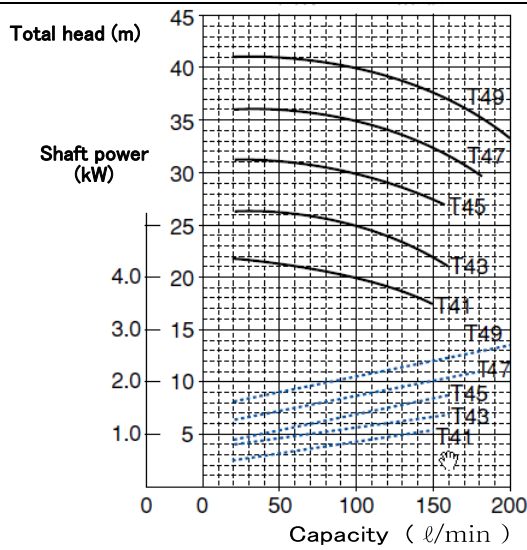
PERFORMANCE CURVE



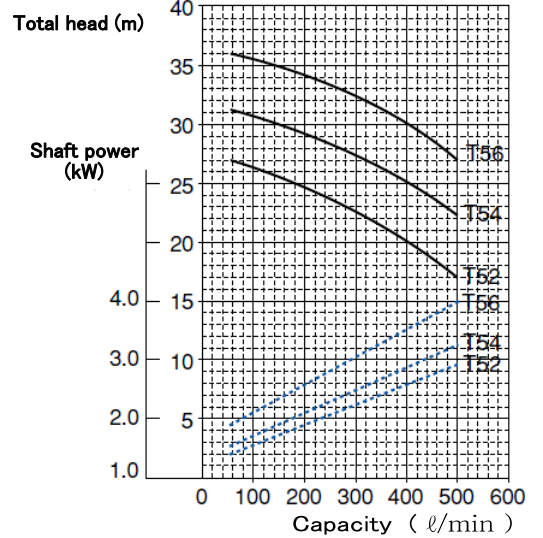
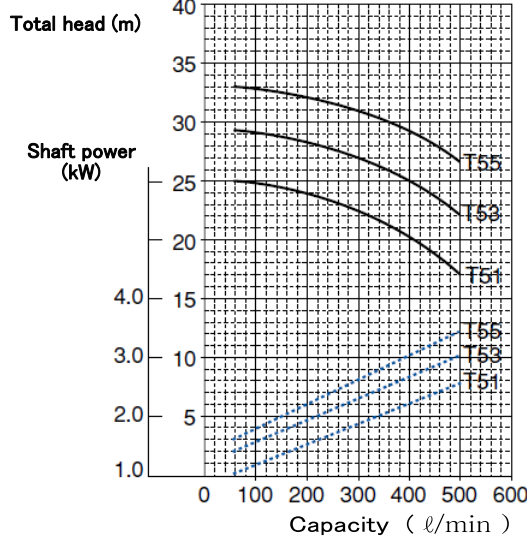
SLF-RE5

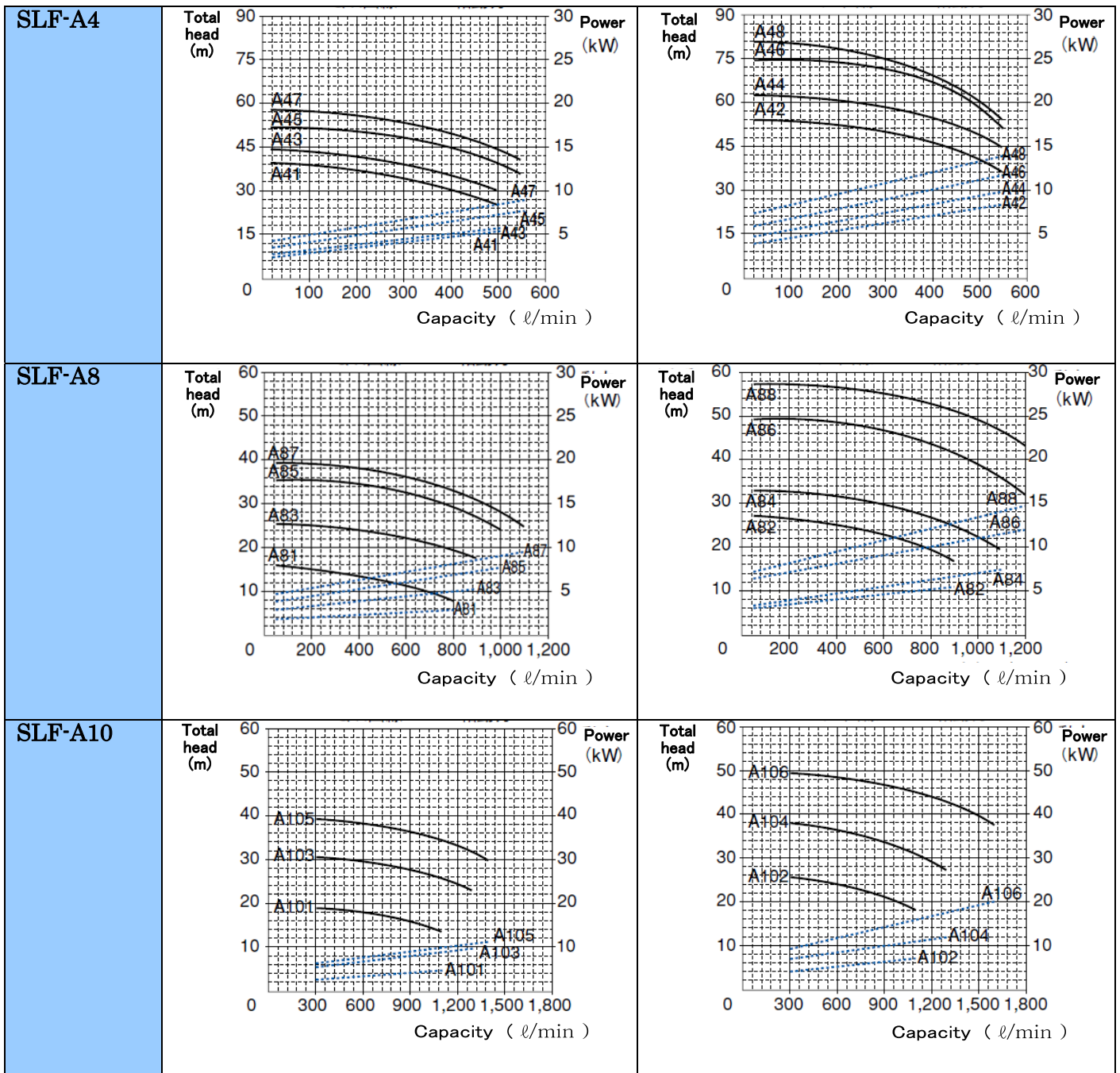


SLF-T4

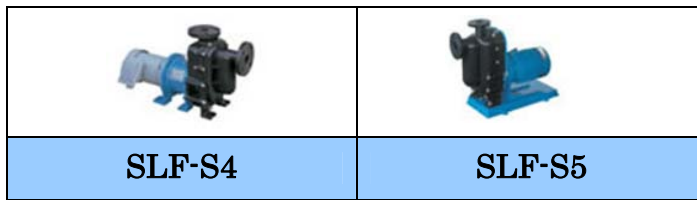


SLF-T5





1-3. Magnet Drive Seal-less Pumps SLF-S Series (self-suction pump)

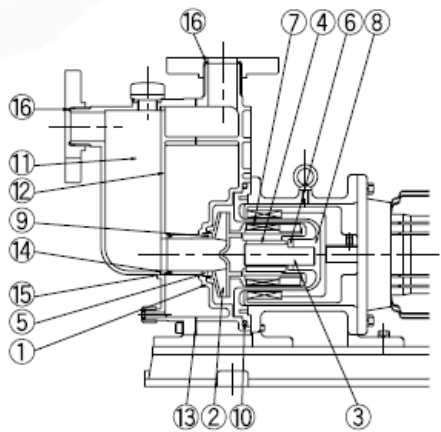


FEATURES

- Non-leakage
- Quick-self-priming.
It's possible to do self suction of height 4m within 2 minutes.
- Low NPSH a chievement.
- Excellent corrosion resistance

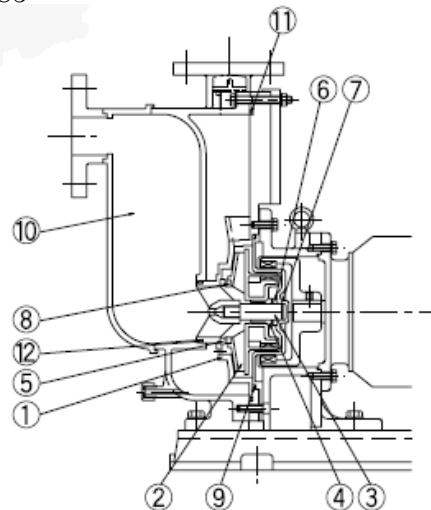
CONSTRUCTIONS

● SLF-S4



- ① Casing : G-PP
- ② Impeller : G-PP
- ③ Main Shaft : Ceramics
- ④ Bearing : Carbon/C-PTFE
- ⑤ Front Thrust : Ceramics
- ⑥ Rear Thrust : Ceramics
- ⑦ Magnet lining : PP
- ⑧ Rear Casing : G-PP
- ⑨ Mouth Ring : Carbon/C-PTFE
- ⑩ O-ring(Casing) : FKM/EPDM
- ⑪ Tank : G-PP
- ⑫ Partition Plate : G-PP
- ⑬ Tank Gasket : FKM/EPDM
- ⑭ Partition Plate Gasket : FKM/EPDM
- ⑮ O-ring (for Suction) : FKM/EPDM
- ⑯ O-ring : FKM/EPDM

● SLF-S5



- ① Casing : G-PP/PVDF
- ② Impeller : G-PP/PVDF
- ③ Main Shaft : Ceramics/SiC
- ④ Bearing : Carbon/PTFE/SiC
- ⑤ Front Thrust : Ceramics/SiC
- ⑥ Rear Thrust : Ceramics/SiC
- ⑦ Rear Casing : C-PVDF
- ⑧ Mouth Ring : Carbon/PTFE/SiC
- ⑨ O-ring(Casing) : FKM/EPDM
- ⑩ Tank : G-PP/PVDF
- ⑪ O-ring (for tank) : FKM/EPDM
- ⑫ O-ring (for Suction) : FKM/EPDM

SPECIFICATIONS

【50Hz】

MODEL	Connection Size Suction × Discharge (mm)	Capacity (L/min)	Total Head (m)	Motor Output (kW)	NPSH Re (m)	Weight (without motor) (kg)
SLF-S41	40A×40A	100	10	0.75	2.2	34
SLF-S51	50A×40A	100	11	1.5 ↑ ↓ 2.2	1.8	PP : 38 PVDF : 41
SLF-S53			15			
SLF-S55			17			
SLF-S57			20			
SLF-S59			22			

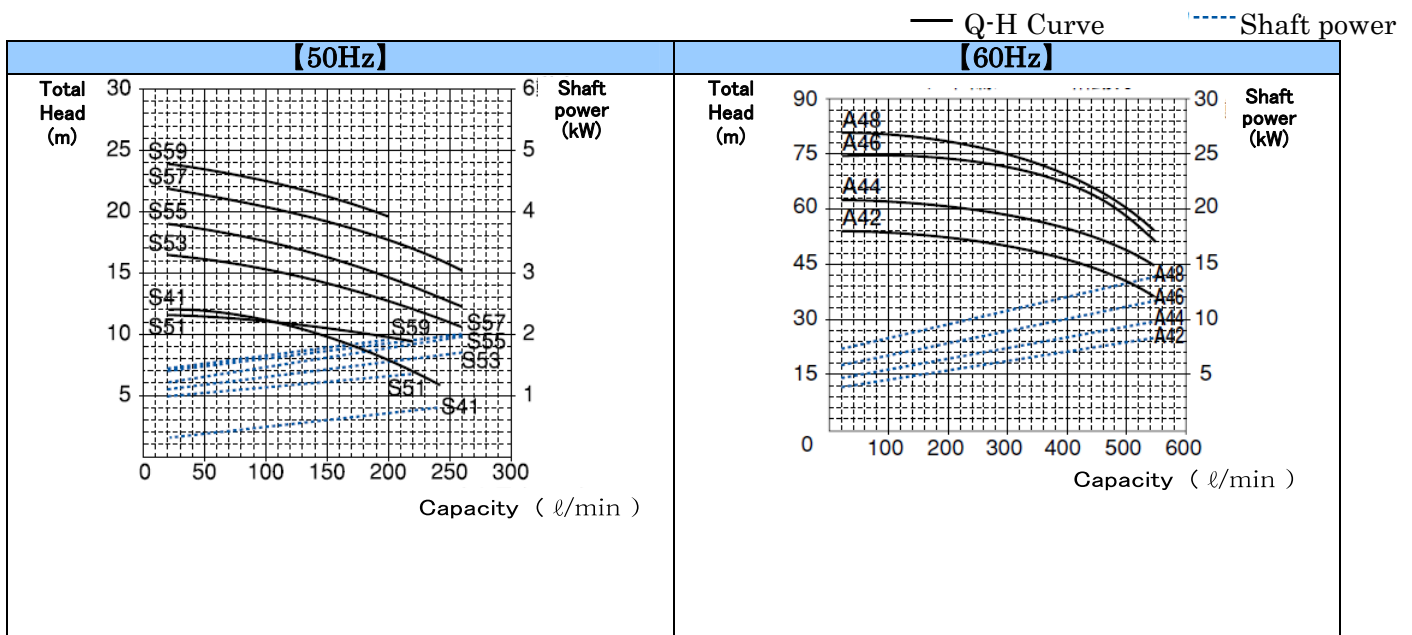
【60Hz】

MODEL	Connection Size Suction × Discharge JIS10K (mm)	Capacity (L/min)	Total Head (m)	Motor Output (kW)	NPSH Re (m)	Weight (without motor) (kg)
SLF-S42	40A×40A	100	11	0.75	2.6	34
SLF-S50	50A×40A	100	12	1.5 ↑ ↓ 2.2	2.5	PP : 38 PVDF : 41
SLF-S52			15			
SLF-S54			17			
SLF-S56			20			
SLF-S58			22			

*Note

- The performance of above table are based on the test results with clean water at normal room temperature
- Maximum temperature of liquid : 80°C
- Judging from the motor side, the natatory direction is clock direction
- Paint color: Munsell 2.5B4/8
- Standard accessories: Anchor bolts
- The motor can be changed to fit the specific gravity of the liquid (Special order).

PERFORMANCE CURVE



OPTIONS (FOR SLF, SLF-S Series)

INTELLIGENT DRY RUN PROTECTOR

When the pump become the dry-running, the DRY-MONITOR stops the pump and prevent a trouble. Since the monitor uses the motor current valve of the pump for control, there is no need to provide the pump or piping with any special device.

Cavitations, dry running or no-discharge operation can be prevented simply by setting the electric current value of the INTELLIGENT DRY RUN MONITOR at the point of current value of closed state on the discharge side instead of the normal state (specified point) of the pump.

Power Source		50/60Hz 100V 115V 200V 230V 1-phase	
Consumed Electric Power		4W	
Detection Electric Current		0~5A	
Setting Parameter	CURRENT H	Upper limit of setting range	000~MAX RANGE(A)
	CURRENT L	Lower limit of setting range	000~CURRENT H(A)
	DELAY H	Confirmation time for upp limit carrent value	000~999(sec)
	DELAY L	Minimum current value fixation hour	000~999(sec)
	START	Detection-less at the time of a start, time	000~999(sec)
	RANGE	Electric current range	2.5/5.0/10/20/30/40/50/100/120A
Panel Indication		LED: The electric motor required current value (reference value) ·Each parameter Error ±Within the 5%	
Alarm Contact Capacity		1C AC250V 3A	
Installation Environmental Atmosphere		Temperature: 0~40°C Humidity: RH40~85%	
Outside Dimensions		W65×D77×H138mm	



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