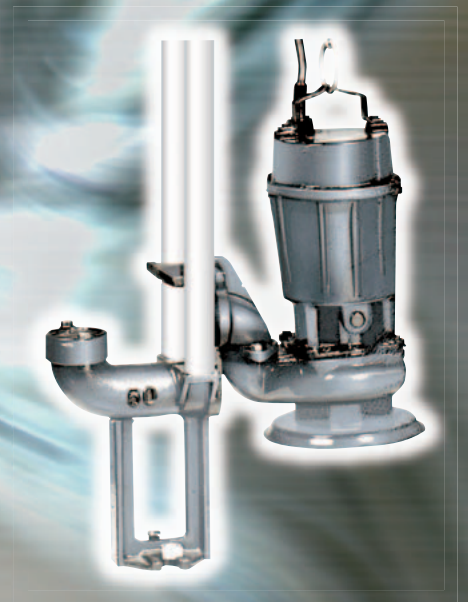


ShinMaywa

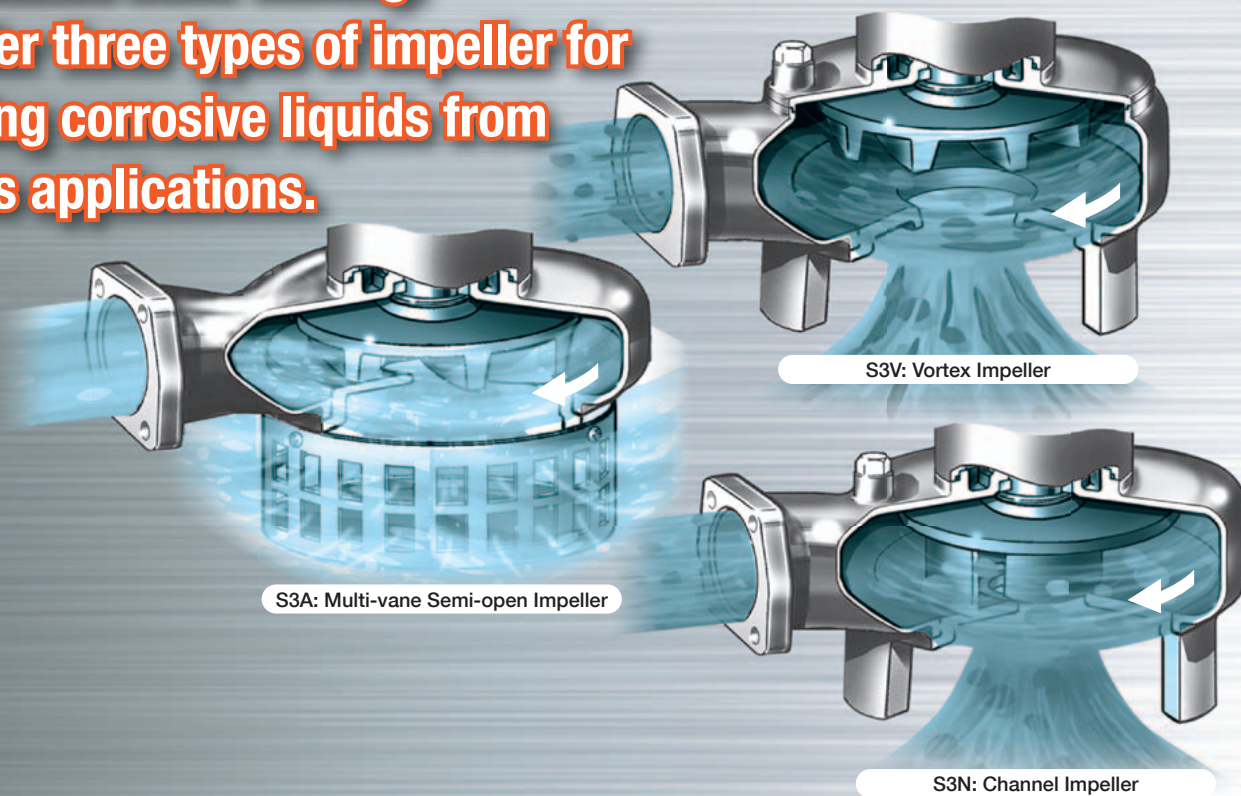
Submersible Stainless Steel Pump

S3A · S3N · S3V Series



All wetted parts are made of corrosion resistant stainless steel or stainless steel casting.

We offer three types of impeller for handling corrosive liquids from various applications.



Features

Available for handling corrosive liquids

Constructed of corrosion resistant stainless steel (304 stainless steel or its casting) with adequate thickness for the wetted parts.

Extended service life

- Shaft seal...Wear resistant double mechanical seal & oil seal
 - Cable entry...Built-in core seal
 - Motor...Automatic-reset type thermal protector
- These devices protect the motor and realize an extended service life

Three types of impeller offered for various applications

- S3A...High efficiency multi-vane semi-open impeller for handling liquids containing fewer solids
- S3N...Channel impeller for handling liquids containing solids
- S3V...Vortex impeller for handling liquids containing sludge or fibrous solids

Applications

- Draining effluent containing corrosive liquids
Chemical plant, Food plant, Hospital, Laboratory, etc.
- Transferring corrosive liquids in treatment processes
Industrial wastewater treatment, etc.
- Water supply and circulation
Water display, Fountain, Aquarium, etc.

Standard Specifications

Handling liquid	Kind of liquid	Wastewater and sewage
	Temperature	0 - 32°C
Material	Cable	PVC insulated PVC sheathed cable
	Motor shaft	304 stainless steel (0.25-1.5 kW) 316 stainless steel (2.2-7.5 kW)
	Pump housing	304 stainless steel casting
	Impeller	
Electric motor	Type	Air-filled submersible induction motor
	Insulation class	Class E
	Enclosure	IP68
	Phase	3
	Rated voltage	Several voltage between 200 and 480V

Optional Specifications

Motor insulation	Class F
Cable extension	Cable lengths: 10 to 30m (every 5m)
Material changes	For the wetted parts, the material can be changed to 316 stainless steel and 316 stainless steel casting
Motor protector (2.2 - 7.5 kW)	-Thermal switches (Embedded to motor winding) -Leakage detector

*For specifications other than the above, please consult us.

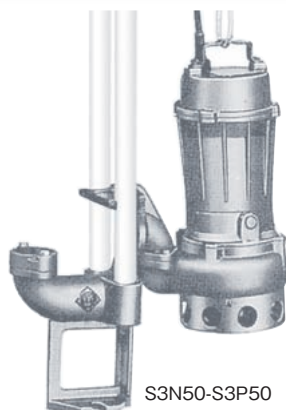
S3N

Channel Impeller models for handling liquids containing solids



Channel Impeller

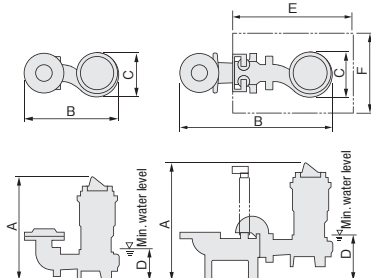
0.25~7.5kW



S3N50-S3P50

Dimensions (mm)

- Free standing
- Guide rail installation



Standard Specifications

Discharge mm	Pump model	Installation kit No.		Rated output kW	Phase	Flow - Total head m³/min-m		No. of poles	Pump weight kg	
		Guide rail installation	Free standing			50Hz	60Hz		S3N	S3N-D S3N-W
40	S3N40T	S3P40	S3F40	0.25	3	0.1 - 5.1	0.1 - 5.0	2	17.5	18.5
50(65)	S3N50T	S3P50	S3F50	0.4	3	0.15 - 5.6	0.15 - 5.6	2	23	24
	S3N50		0.75	0.2 - 7.6		0.2 - 7.0	24		25	
65(80)	S3N65	S3P65	S3F65	1.5	3	0.4 - 9.9	0.4 - 9.2	2	39	41
80 (65) (100)	S3N80	S3P80B	S3F80	2.2	3	0.8 - 7.4	0.8 - 7.6	4	63	—
				3.7		[1] 1.0 -10.8	1.0 -10.8		76	
						[3] 0.8 -13.4				
100 (80)	S3N100	S3P8100B	S3F100	5.5	3	[1] 1.2 -11.5	[2] 1.2 -12.2	4	103	—
						[3] 0.9 -16.5	[4] 0.9 -16.5			
				7.5		[1] 1.4 -14.0	[2] 1.4 -15.4			
						[3] 1.0 -20.0	[4] 1.0 -21.0		117	

* A pump with a discharge size within parentheses () is also available.
[] Impeller No.

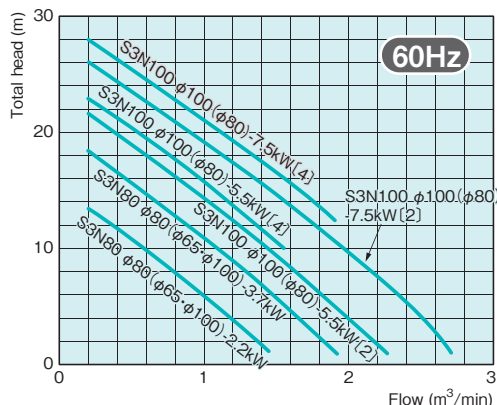
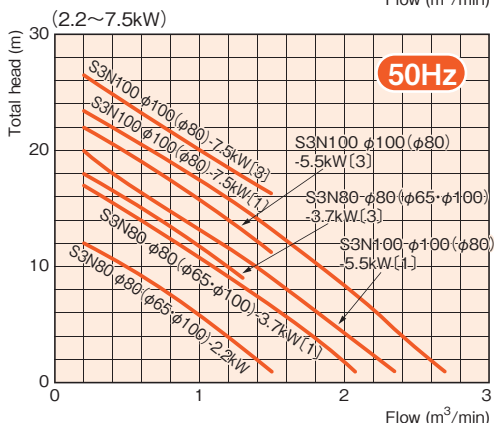
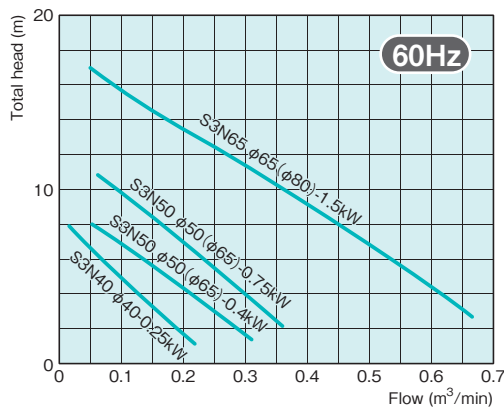
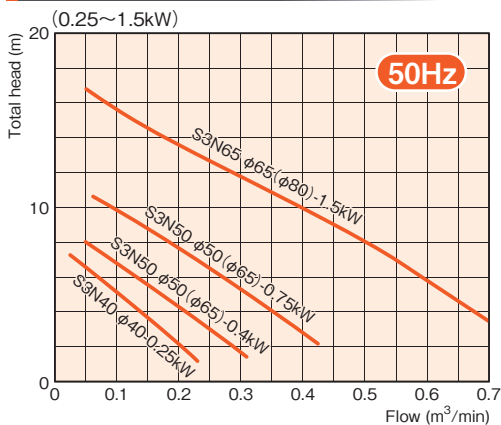
Cable Specifications

- 0.25~0.75kW : VCT 1.25mm²×4 cores×Outer dia. 11.5 mm×6m
- 1.5kW : VCT 1.25mm²×4 cores×Outer dia. 11.5 mm×10m
- 2.2kW : VCT 1.25mm²×4 cores×Outer dia. 11.5 mm×8m

- 3.7kW : VCT 2.0mm²×4 cores×Outer dia. 12 mm×8m
- 5.5kW : VCT 3.5mm²×4 cores×Outer dia. 14 mm×8m
- 7.5kW : VCT 5.5mm²×4 cores×Outer dia. 16.5 mm×8m

VCT: PVC insulated PVC sheathed cable

Performance Curves



[] Impeller No.

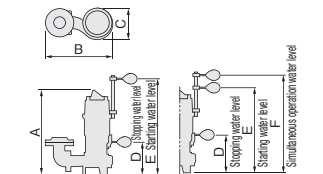
Auto-operation models

S3N-D: Auto-operation

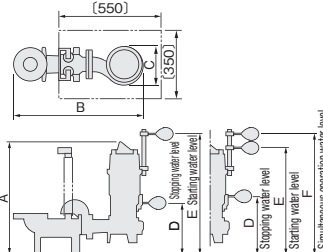
S3N-DW: Auto-alternate operation

Pump model		
Auto-operation	Auto-alternate operation	Pump No. 1 and 2
S3N40DT	S3N40DWT	S3N40WT + S3N40DT
S3N50DT	S3N50DWT	S3N50WT + S3N50DT
S3N50D	S3N50DW	S3N50W + S3N50D
S3N65D	S3N65DW	S3N65W + S3N65D

Free standing



Guide rail installation (550)



Pump model	Installation kit No.	Rated output kW	A	B	C	D	E	F
S3N40DT	S3F40	0.25	411	233	164	130	550	
S3N50D (T)	S3F50	0.4~0.75	473	249	171	140	610	
S3N65D	S3F65	1.5	584	408	230	310	780	
S3N40WT	S3F40	0.25	411	233	164	170	500	650
S3N50W (T)	S3F50	0.4~0.75	473	249	171	180	560	710
S3N65W	S3F65	1.5	584	408	230	370	730	910
S3N40DT	S3P40	0.25	467	431	164	185	605	
S3N50D (T)	S3P50	0.4~0.75	521	447	171	190	660	
S3N65D	S3P65	1.5	632	653	230	360	830	
S3N40WT	S3P40	0.25	467	431	164	225	555	705
S3N50W (T)	S3P50	0.4~0.75	521	447	171	230	610	760
S3N65W	S3P65	1.5	632	653	230	420	780	960

S3V

Vortex Impeller models for handling liquids containing sludge or fibrous solids



Vortex Impeller

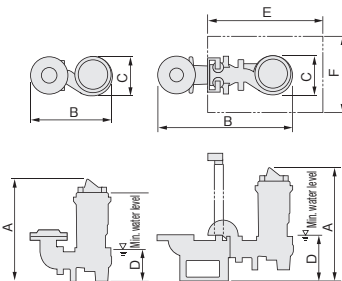
0.25~7.5kW



S3V50-S3P50

Dimensions (mm)

- Free standing
- Guide rail installation



Standard Specifications

Discharge mm	Pump model	Installation kit No.		Rated output kW	Phase	Flow - Total head m ³ /min-m		No. of poles	Pump weight kg	
		Guide rail installation	Free standing			50Hz	60Hz		S3V	S3V-D S3V-W
40	S3V40T	S3P40	S3F40	0.25	3	0.1 - 4.4	0.09 - 4.3	2	19	20
50(65)	S3V50T	S3P50	S3F50	0.4	3	0.14 - 4.7	0.14 - 4.3	2	20	21
	S3V50			0.75		0.17 - 7.4	0.17 - 7.3		23	24
65(80)	S3V65	S3P65	S3F65	1.5	3	0.42 - 8.0	0.38 - 8.0	2	38	40
80 (65/100)	S3V80	S3P80B	S3F80	2.2	3	0.8 - 6.6	0.7 - 6.8	4	63	-
				3.7		1.0 - 8.8	0.9 - 9.5		76	-
100 (80)	S3V100	S3P100B	S3F100	5.5	3	1.2 - 10.4	1.2 - 10.8	4	103	-
				7.5		[1] 1.3 - 12.8 [2] 1.3 - 12.8 [3] 0.8 - 17.5 [4] 0.8 - 18.4			117	-

* A pump with a discharge size within parentheses () is also available.
[] Impeller No.

	Pump model	Installation kit No.	Rated output kW	A	B	C	D	E	F
Free standing	S3V40T	S3F40	0.25	370	245	165	100		
	S3V50 (T)	S3F50	0.4~0.75	403	245	165	115		
	S3V65	S3F65	1.5	490	418	220	125		
	S3V80	S3F80	2.2	550	524	292			
			3.7	612	543	331	190		
	S3V100	S3F100	5.5	640	618	355	190		
Guide rail installation	S3V40T	S3P40	0.25	441	443	165	170	550	350
	S3V50 (T)	S3P50	0.4~0.75	461	443	165	175	550	350
	S3V65	S3P65	1.5	566	663	220	200	550	350
	S3V80	S3P80	2.2	620	830	292	260	600	500
			3.7	682	849	331	260	700	600
	S3V100	S3P100	5.5	710	920	355	260	700	600

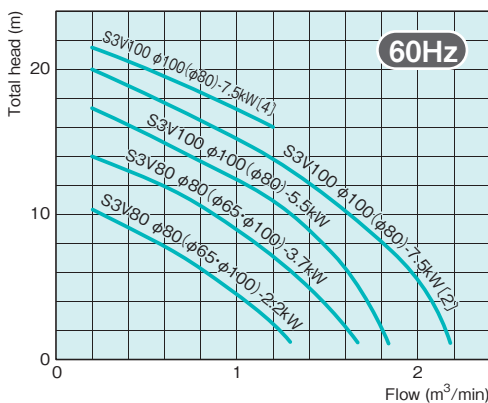
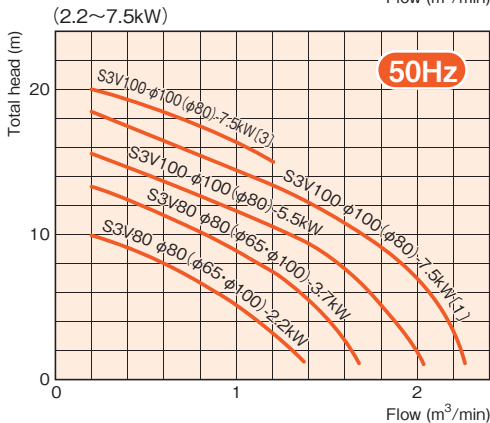
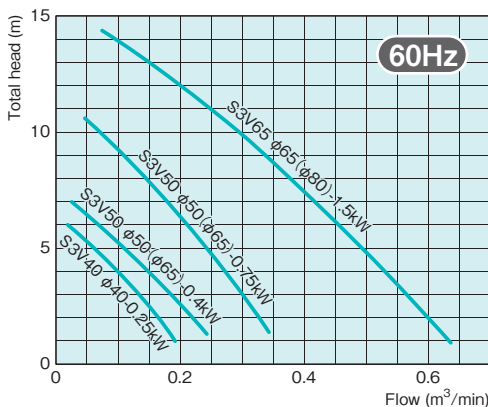
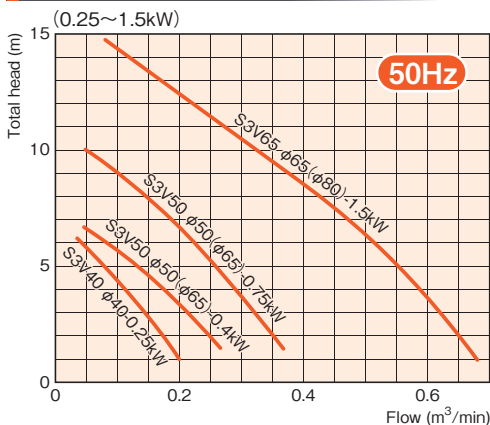
Cable Specifications

- 0.25~0.75kW : VCT 1.25mm²×4 cores×Outer dia. 11.5 mm×6m
- 1.5kW : VCT 1.25mm²×4 cores×Outer dia. 11.5 mm×10m
- 2.2kW : VCT 1.25mm²×4 cores×Outer dia. 11.5 mm×8m

VCT: PVC insulated PVC sheathed cable

- 3.7kW : VCT 2.0mm²×4 cores×Outer dia. 12 mm×8m
- 5.5kW : VCT 3.5mm²×4 cores×Outer dia. 14 mm×8m
- 7.5kW : VCT 5.5mm²×4 cores×Outer dia. 16.5 mm×8m

Performance Curves



[] Impeller No.

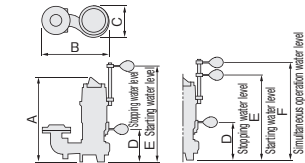
Auto-operation models

S3V-D: Auto-operation

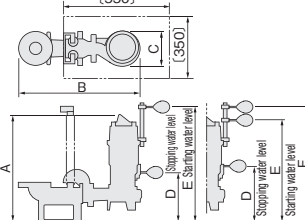
S3V-DW: Auto-alternate operation

Auto-operation	Pump model	
	Auto-alternate operation	
Pair name	Pump No. 1 and 2	
S3V40DT	S3V40DWT	S3V40WT + S3V40DT
S3V50DT	S3V50DWT	S3V50WT + S3V50DT
S3V50D	S3V50DW	S3V50W + S3V50D
S3V65D	S3V65DW	S3V65W + S3V65D

Free standing



Guide rail installation (S50)



	Pump model	Installation kit No.	Rated output kW	A	B	C	D	E	F
Free standing	S3V40DT	S3F40	0.25	404	245	165	115	540	
	S3V50 (T)	S3F50	0.4~0.75	437	245	165	125	575	
	S3V65D	S3F65	1.5	548	473	220	275	745	
	S3V40WT	S3F40	0.25	404	245	165	155	490	640
Guide rail installation	S3V50W (T)	S3F50	0.4~0.75	437	245	165	165	525	675
	S3V65W	S3F65	1.5	548	473	220	335	695	875
	S3V40DT	S3P40	0.25	475	443	165	185	610	
	S3V50D (T)	S3P50	0.4~0.75	495	443	165	185	635	
	S3V65D	S3P65	1.5	624	663	220	350	820	
	S3V40WT	S3P40	0.25	475	443	165	225	560	710
	S3V50W (T)	S3P50	0.4~0.75	495	443	165	225	585	735
	S3V65W	S3P65	1.5	624	663	220	410	770	950

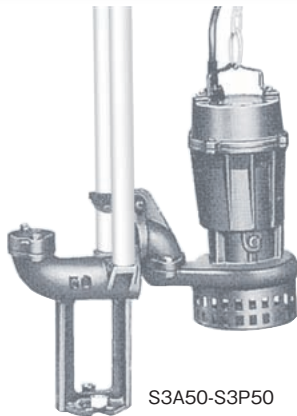
S3A

High efficiency Multi-vane Semi-open Impeller models
for handling liquids containing fewer solids



Multi-vane Semi-open Impeller

0.25~1.5kW



S3A50-S3P50

Standard Specifications

Discharge mm	Pump model	Installation kit No.		Rated output kW	Phase	Flow - Total head m³/min-m		No. of poles	Pump weight kg	
		Guide rail installation	Free standing			50Hz	60Hz		S3A	S3A-D S3A-W
40	S3A40T	S3P40	S3F40	0.25	3	0.1 - 6.2	0.1 - 6.1	2	16.5	17.5
				0.4		0.05 - 12.0	0.05 - 11.9		19	20
50 (65)	S3A50T			0.4		0.15 - 6.4	0.15 - 6.3		19	20
						[3] 0.2 - 9.3	[4] 0.2 - 9.2	2	20	21
	S3A50	S3P50	S3F50	0.75	3	[5H] 0.1 - 13.6	[6H] 0.1 - 13.6		37	39
				1.5		[7H] 0.2 - 17.3	[8H] 0.2 - 16.9			
65(80)	S3A65	S3P65	S3F65	1.5	3	0.3 - 13.1	0.3 - 13.1	2	38	40

* A pump with a discharge size within parentheses () is also available.
[] Impeller No.

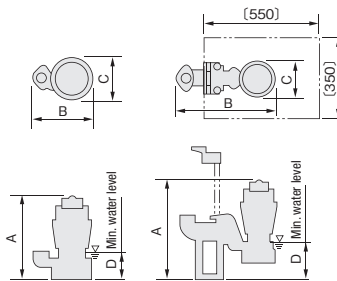
Cable Specifications

- 0.25~0.75kW: VCT 1.25 mm²×4 cores×Outer dia. 11.5 mm×6m
 - 1.5kW : VCT 1.25 mm²×4 cores×Outer dia. 11.5 mm×10m
- VCT: PVC insulated PVC sheathed cable

Dimensions (mm)

● Free standing

● Guide rail installation



	Pump model	Installation kit No.	Rated output kW	A	B	C	D
Free standing	S3A40T	S3F40	0.25	367	249	171	115
			0.4	387			
	S3A50 (T)	S3F50	0.4~0.75	387	249	171	115
	S3A50		1.5	482	278	190	135
Free standing	S3A65	S3F65	1.5	484	393	202	135
Guide rail installation	S3A40T	S3P40	0.25	431	447	171	180
			0.4	451			
	S3A50 (T)	S3P50	0.4~0.75	451	447	171	180
	S3A50		1.5	527	476	190	180
	S3A65	S3P65	1.5	556	638	202	210

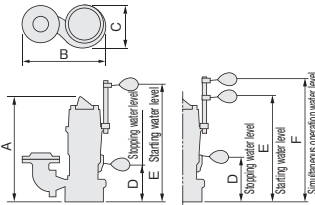
Auto-operation models

S3A-D: Auto-operation

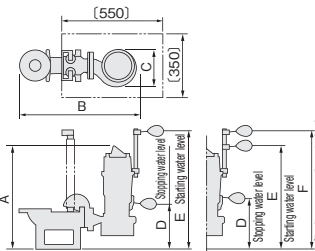
S3A-DW: Auto-alternate operation

Auto- operation	Pump model	
	Pair name	Pump No. 1 and 2
	S3A40DT	S3A40DWT + S3A40DT
	S3A50DT	S3A50DWT + S3A50DT
	S3A50D	S3A50W + S3A50D
	S3A65D	S3A65W + S3A65D

● Free standing

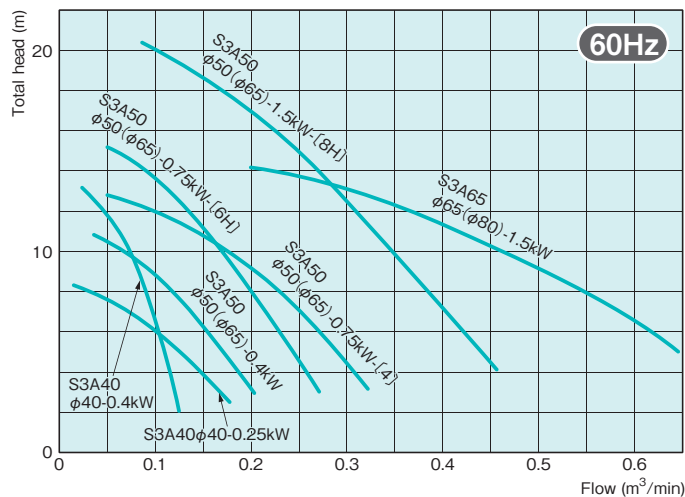
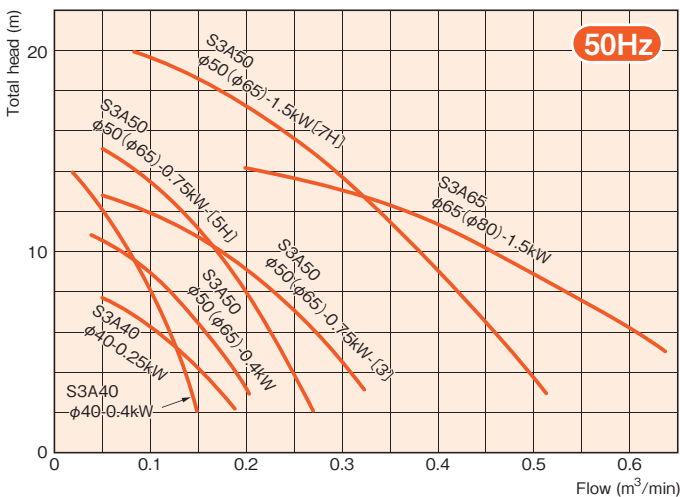


● Guide rail installation



	Pump model	Installation kit No.	Rated output kW	A	B	C	D	E	F
Free standing	S3A40DT	S3F40	0.25	401	249	171	120	540	
			0.4	421				560	
	S3A50D (T)	S3F50	0.4~0.75	421	249	171	120	560	
	S3A50D		1.5	540	278	190	220	690	
	S3A65D	S3F65	1.5	542	393	202	220	690	
Free standing	S3A40WT	S3F40	0.25	401	249	171	160	490	640
			0.4	421				510	660
	S3A50W (T)	S3F50	0.4~0.75	421	249	171	160	510	660
	S3A50WT		1.5	540	278	190	280	640	820
	S3A65W	S3F65	1.5	542	393	202	280	640	820
Guide rail installation	S3A40DT	S3P40	0.25	465	447	171	185	605	
			0.4	485				625	
	S3A50D (T)	S3P50	0.4~0.75	485	447	171	185	625	
	S3A50D		1.5	585	476	190	265	735	
	S3A65D	S3P65	1.5	614	638	202	290	760	
Guide rail installation	S3A40WT	S3P40	0.25	465	447	171	225	555	705
			0.4	485				575	725
	S3A50W (T)	S3P50	0.4~0.75	485	447	171	225	575	725
	S3A50WT		1.5	585	476	190	325	685	865
	S3A65W	S3P65	1.5	614	638	202	350	710	890

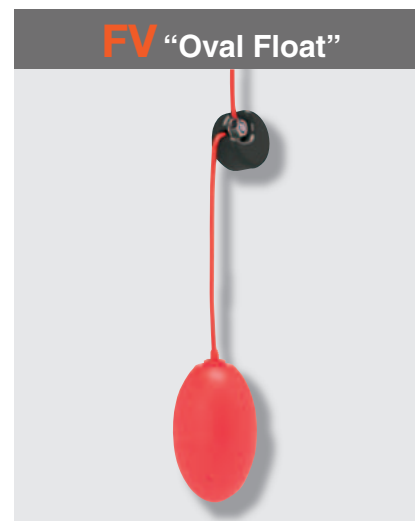
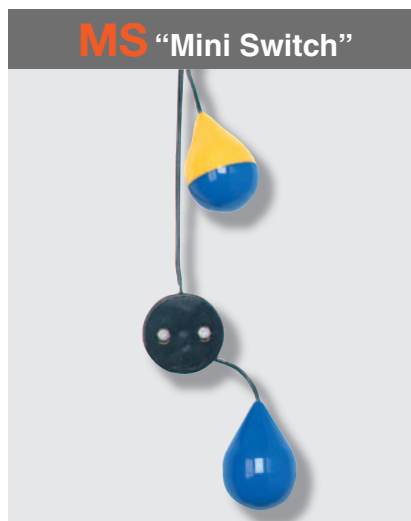
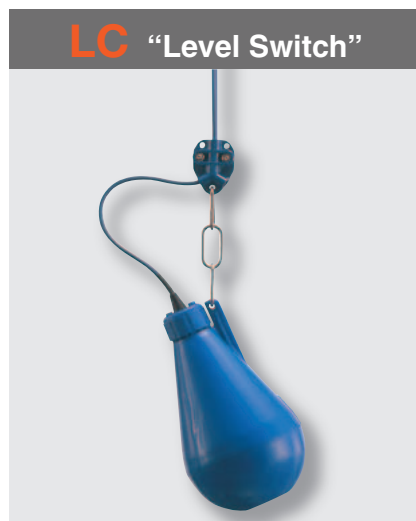
Performance Curves



[] Impeller No.

Special Accessories

Liquid Level Regulators - All models are non-mercury structure for earth environment.



Features

LC Useful for drinking water, waste water and sewage containing the suspended solids. Hardly affected by corrosion or rust even if it is immersed in a corrosive liquid for a long time.

MS Useful for waste water and sewage containing a few suspended solids. The MS is available in two types, MS11 (single float) and MS21 (double float).

FV Useful for the fresh water as well as waste water not containing suspended solids. A single FV is able to control both the upper and lower liquid levels.

Specifications

Model	LC12	MS11, MS21	FV11
Switch	Micro switch	Reed switch	Reed switch
Specific gravity of liquid	0.95~1.15	0.95~1.10	0.95~1.10
Liquid temperature	0~60°C	0~40°C	0~60°C
Voltage	AC/DC30V or under		
Current	5A or under	0.5A or under	0.6A
Cable length	6m, 13m, 20m, 30m, 40m, 50m (further cable extension at interval of 10m)		
Cable type	0.75mm ² ×3 cores, Flat Type	0.2mm ² ×2 cores×O.D.4.7mm	0.5mm ² ×2 cores×O.D.5.8mm
Weight (including cable)	1.2kg (6m cable)	0.6kg (MS11, 6m cable)	1.0kg (6m cable)
Material	Case	Polypropylene resin	ABS resin
	Cable	PVC sheathed code (VCTFK)	PVC resin (soft type)
	Others	Chain: 304 stainless steel	Sinker: Cast iron with PVC resin coating
			Sinker: Cast iron

Specifications and dimensions are subject to change without notice.

ShinMaywa Industries, Ltd.

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ShinMaywa ONO PLANT

ISO 9001(No.956445)/ISO 14001(No.771888)

Printed on recycled paper.
'18. 3 Z-W013A Printed in Japan1.2 ㊞