



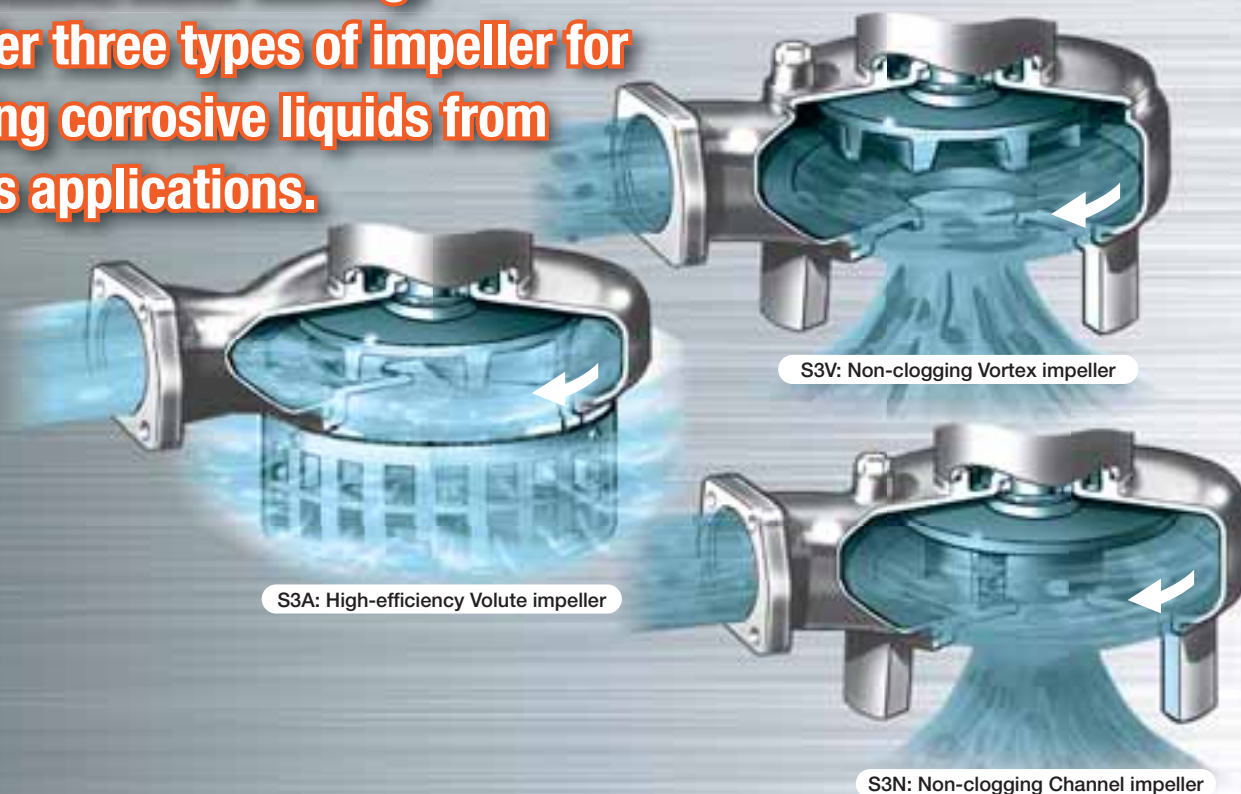
Submersible Stainless Steel Pump

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 (SUS304 or SCS13) 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...Auto-reset type thermal protector

These equipment protect the motor and realize an extended service life

Three types of impeller offered for various applications

- S3A...High-efficiency volute impeller
for handling liquids containing less solids
- S3N...Non-clogging channel impeller
for handling liquids containing solids
- S3V...Non-clogging vortex impeller
for handling liquids containing sludge or fibrous matters

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	Liquid Type	Wastewater and Sewage
	Temperature	0 - 32°C
Material	Cable	VCT
	Motor Shaft	SUS304 (0.25-1.5 kW) SUS316 (2.2-7.5 kW)
	Pump Casing	SCS13 (304 stainless casting)
	Impeller	
Electric Motor	Name	Air filled type submersible induction motor
	Insulation Class	Class E
	Enclosure	IP68
	Phase	3-ph
	Voltage	200 - 480V

Special 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 SUS316 and SCS14 (316 stainless casting)
Motor Protector (2.2 - 7.5 kW)	-Micro thermal protector (Manual reset type) -Leakage detector

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

S3N

Non-clogging channel impeller models for handling liquids containing solids



Non-clogging
channel impeller

0.25~7.5kW

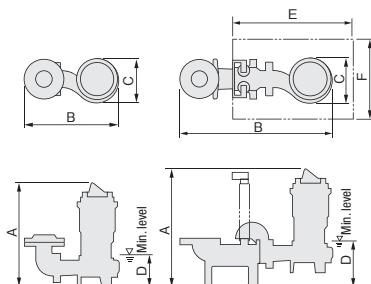


S3N50-S3P50

Dimensions (mm)

● Free standing

● Auto-connection



Standard Specifications

Bore mm	Model	Connection Part No.		Output kW	Phase	Capacity - Total Head m ³ /min-m		No. of Poles P	Weight (Bare Pump) kg	
		Auto- connection	Free Standing			50Hz	60Hz		S3N	S3N-D S3N-W
40	S3N40T	S3P40	S3F40	0.25	3-ph	0.1 - 5.1	0.1 - 5.0	2	17.5	18.5
50(65)	S3N50T	S3P50	S3F50	0.4	3-ph	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-ph	0.4 - 9.9	0.4 - 9.2	2	39	41
80 (65) (100)	S3N80	S3P80B	S3F80	2.2	3-ph	0.8 - 7.4	0.8 - 7.6	4	63	—
				3.7		[1] 1.0 -10.8 [3] 0.8 -13.4	1.0 -10.8		76	
100 (80)	S3N100	S3P8100B	S3F100	5.5	3-ph	[1] 1.2 -11.5 [3] 0.9 -16.5	[2] 1.2 -12.2 [4] 0.9 -16.5	4	103	—
				7.5		[1] 1.4 -14.0 [3] 1.0 -20.0	[2] 1.4 -15.4 [4] 1.0 -21.0		117	

* A pump with a bore within parentheses () is also provided.
[] Impeller code No.

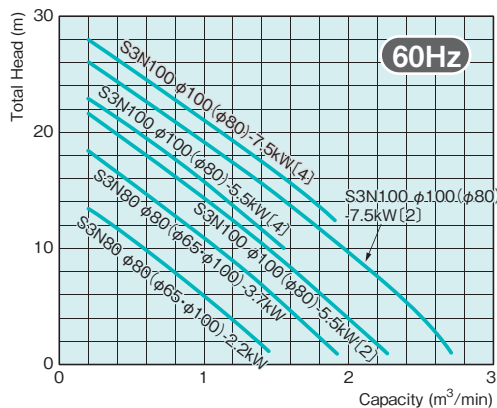
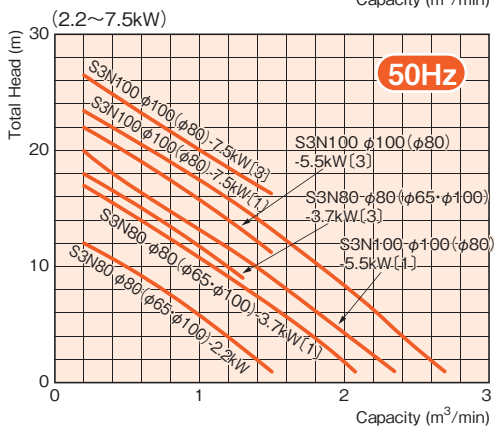
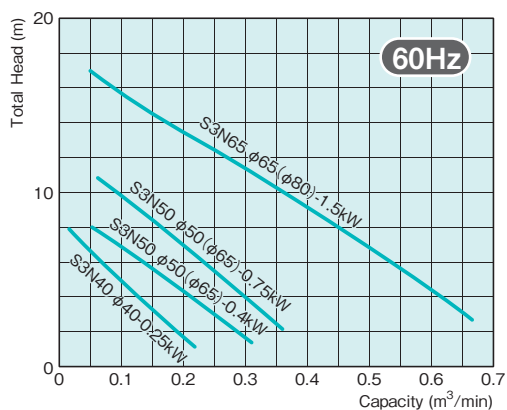
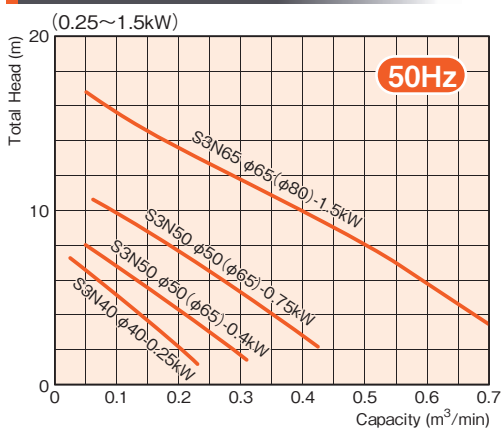
	Model	Connection Part No.	Output kW	A	B	C	D	E	F
Free standing	S3N40T	S3F40	0.25	377	233	164	125		
	S3N50 (T)	S3F50	0.4~0.75	439	249	171	135		
	S3N65	S3F65	1.5	526	408	230	150		
	S3N80	S3F80	3.7	612	543	331	190		
	S3N100	S3F100	5.5	640	618	355	190		
Auto-connection	S3N40T	S3P40	0.25	433	431	164	180	550	350
	S3N50 (T)	S3P50	0.4~0.75	487	447	171	180	550	350
	S3N65	S3P65	1.5	574	653	230	200	550	350
	S3N80	S3P80	3.7	682	849	331	260	600	500
	S3N100	S3P100	5.5	710	920	355	260	700	600

Cable Specification

- 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

Performance Curves



[] Impeller code No.

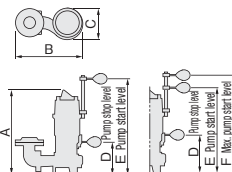
Auto-operation models

S3N-D: Auto-operation

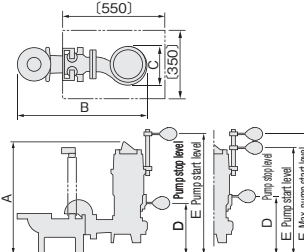
S3N-DW: Auto-alternate operation

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

● Free Standing



● Auto-connection (550)



	Model	Connection Part No.	Output kW	A	B	C	D	E	F
Free standing	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
Auto-connection	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