

STK Submersible Peripheral Pump



Application

- Clean water or other liquids similar to water in physical and chemical properties
- Small living water supply, Automatic water sprinkler system, Garden irrigation, Temporary water taking etc.

Pump

- Low noise (55dB) and Less vibration
- Small and exquisite, easy to install and carry
- Auto-Start/Stop (with float switch type)
- Engineering plastic material have no pollution to water

Motor

- Insulation class: F
- Enclosures class: IPX8

Identification Codes

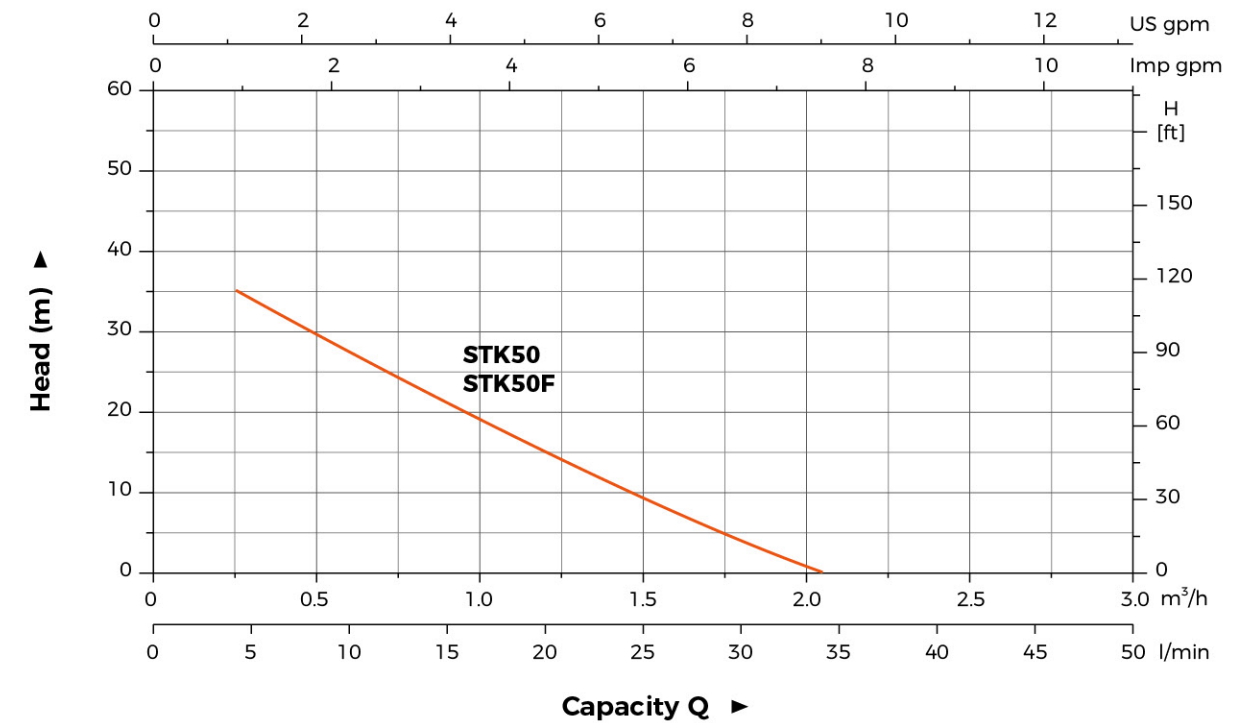
STK 50 (F)

- Optional Float Switch
- Rated Output Power
- Submersible Pump Series

Technical Data

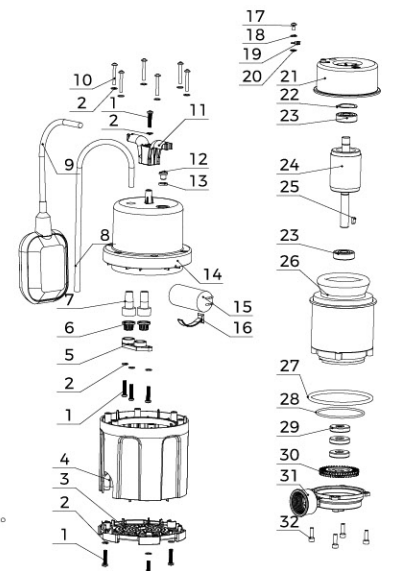
Model	Voltage (V/Hz)	Power		Max.flow		Max.head m	Max.immersion Depth (m)	Outlet
		kW	HP	L/min	m³/h			
STK50(F)	220-240	0.37	0.5	37	2.2	35	3.5	1"

Hydraulic Performance Curves



Material Table

No.	Part	Material	No.	Part	Material
1	Screw		17	Screw M4×8	
2	Washer		18	Spring washer	
3	Pedestal	PP	19	Cold compacting	
4	Plastic support	PP	20	Serrated lock washer	
5	Cable clamp	PA	21	Bearing cover	ADC12
6	Cable plate	PA	22	Spring washer	
7	Cable jacket	EPDM	23	Bearing	
8	Cable		24	Rotor	
9	Float switch		25	Shaft key	
10	Screw		26	Winding	
11	Handle	PP	27	O-ring	
12	Screw		28	O-ring	
13	O-ring		29	Framework oil seal	
14	Top cap	PP	30	Impeller	HPb59-1
15	Capacitor		31	Pump body subassembly	ADC12
16	Capacitor clamp	PC/ABC	32	Hexagon socket cap screws	

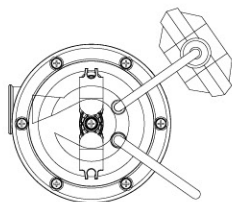
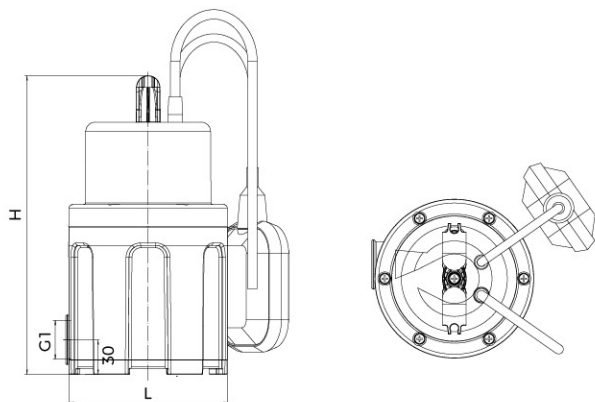
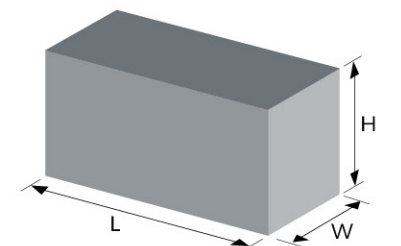


Dimension

Model	DN	L (mm)	H (mm)
STK50	1"	135	255
STK50F	1"	135	255

Package Information

Model	GW (Kgs)	L (mm)	W (mm)	H (mm)	Quantity (PCS/20'TEU)
STK50	3.95	150	150	320	3024
STK50F	4.12	150	150	270	3332



Accessories

Identification Codes

24 V T T S - G1 S

- Stainless Steel Cover (Iron Tank without S)
- Cover Thread
- Stainless Steel Tank (Iron Tank without S)
- Actual Capacity=Nominal Capacity
- Pressure Tank
- Tank Type
- S: Vertical Flat Tank V: Vertical Tank
- C: Horizontal Tank F: Vertical Tank with Foot Base
- Nominal Tank Capacity

Tank



Model	Max. Pressure (bar)	Nominal Capacity (L)	Actual Capacity (L)	Membrane	Max. Temp (°C)	Connection
24ST	8	24	20	Epdm	60	G1"
24STT	8	24	24	Epdm	60	G1"



Model	Max. Pressure (bar)	Nominal Capacity (L)	Actual Capacity (L)	Membrane	Max. Temp (°C)	Connection
2VT	8	2	2	Epdm	60	G1/2"
4VT	8	4	4	Epdm	60	G1"
5VT	8	5	5	Epdm	60	G1"
8VT	8	8	8	Epdm	60	G1"
19VT	8	19	18	Epdm	60	G1"
24VT	8	24	20	Epdm	60	G1"
24VTT	8	24	24	Epdm	60	G1"



Model	Max. Pressure (bar)	Nominal Capacity (L)	Actual Capacity (L)	Membrane	Max. Temp (°C)	Connection
19CT	8	19	18	Epdm	60	G1"
24CT	8	24	20	Epdm	60	G1"
24CTT	8	24	24	Epdm	60	G1"

*For capacity < 50L, pressure gauge is optional.
For capacity ≥ 50L, pressure gauge is standard.

Tank



Model	Max. Pressure (bar)	Nominal Capacity (L)	Actual Capacity (L)	Membrane	Max. Temp (°C)	Connection
50CT	8	50	36	Epdm	60	G1"
50CTT	8	50	50	Epdm	60	G1"
60CTT	8	60	60	Epdm	60	G1"
100CT	8	100	80	Epdm	60	G1"
100CTT	8	100	100	Epdm	60	G1"

Model	Max. Pressure (bar)	Nominal Capacity (L)	Actual Capacity (L)	Membrane	Max. Temp (°C)	Connection
50FT	8	50	36	Epdm	60	G1"
50FTT	8	50	50	Epdm	60	G1"
60FTT	8	60	60	Epdm	60	G1"
100FT	8	100	80	Epdm	60	G1"
100FTT	8	100	100	Epdm	60	G1"
200FTT	8	200	200	Butyl	60	G1½"
300FTT	8	300	300	Butyl	60	G1½"
500FTT	8	500	500	Butyl	60	G1½"

*For capacity < 50L, pressure gauge is optional.
For capacity ≥ 50L, pressure gauge is standard.

3-Way / 5-Way



5TA

5TB

3TA

Model	Connection	Length
3TA	G1"	70 , 80
5TA	G1"	80 , 90
5TB	G1"	80 , 90

Foot Valve



FVA

Model	Connection
FVA1	1"
FVA1.25	1¼"
FVA1.5	1½"
FVA2	2"
FVA3	3"

- Stainless Steel mesh
- Can be used as a check valve

Accessories

Flexible Hose



Model	FH12.8-01(L=128mm)	FH44-03(L=440mm)
Inlet	G3/4"	G1"
Outlet	G3/8"	G1"
Material	Stainless steel wire	
Operating Limits	Fluid temperature up to 35°C Max. ambient temperature 40°C	

Filter



Model	WF-01B	WF-02B
Inlet/Outlet	1" x 1"	1" x 1"
Capacity	1L	2L
Max. Pressure	5 bar	5 bar
Operating Limits	Fluid temperature up to 35°C Max. ambient temperature 40°C	

Pressure Gauge



Axial

Radial

PG - P 40 A

A: Axial; R: Radial
Size (40mm, 50mm, 60mm)
P: Plastic; S: Iron sheet; SS: Stainless steel
Pressure gauge

- Two connection types: (1) G1/4" (2) M10x1
- For 40mm gauge, the scale: 0 - 6 bar
- For 50mm gauge, the scale: 0 - 10 bar or 0 - 6 bar
- Back/bottom connection

Automatic Pump Controller



PS-04A

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	10(6)A		
Max. Power(P1)	0.55kW(110-120VAC)		1.1kW(220-240VAC)
Starting Pressure	1.0bar, 1.5bar, 2.2bar		
Max. Working Pressure	10bar		
Screw Size	R1", NPT1"; G1", G1-1/4"; G1-1/2"		
Protection Class	IP65		
Max. Working Temperature	60 °C		



PS-04B

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	10(6)A		
Max. Power(P1)	0.55kW(110-120VAC)		1.1kW(220-240VAC)
Starting Pressure	1.2bar, 1.5bar, 2.2bar		
Max. Working Pressure	10bar		
Screw Size	R1"		
Protection Class	IP65		
Max. Working Temperature	60 °C		



PS-04C

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	10(6)A		
Max. Power(P1)	0.55kW(110-120VAC)	1.1kW(220-240VAC)	
Starting Pressure	1.2bar, 1.5bar, 2.2bar		
Max. Working Pressure	10bar		
Screw Size	G1"		
Protection Class	IP54		
Max. Working Temperature	60 °C		

* 1 bar=14.50PSI

Accessories

Automatic Pump Controller



PS-04D

Rated Voltage	110-240VAC	220-240VAC	380VAC
Rated Frequency	50-60Hz		
Max. Current	30(16)A		
Max. Power(P1)	1.1kW	2.2kW	4.0kW
Starting Pressure	1.2bar, 1.5bar, 2.2bar		
Max. Working Pressure	10bar		
Screw Size	G1", G1-1/4", G1-1/2", NPT1"		G1-1/2"
Protection Class	IP65		
Max. Working Temperature	60 °C		



PS-04E

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	30(16)A		
Max. Power(P1)	1.1 kW(110-120VAC)		2.2kW(220-240VAC)
Starting Pressure	0.8bar - 6.7bar		
Max. Working Pressure	8bar		
Screw Size	G1"		
Protection Class	IP65		
Max. Working Temperature	60 °C		



PS-04E-1

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	30(16)A		
Max. Power(P1)	1.1 kW(110-120VAC)	2.2kW(220-240VAC)	
Starting Pressure	1.5bar, 2.2bar		
Max. Working Pressure	8bar		
Screw Size	G1"		
Protection Class	IP65		
Max. Working Temperature	60 °C		

* 1 bar=14.50PSI

Automatic Pump Controller



PS-04T

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	10(6)A		
Max. Power(P1)	0.55kW(110-120VAC)	1.1 kW(220-240VAC)	
Starting Pressure	1.2 - 2.5bar		
Max. Working Pressure	10bar		
Screw Size	G1"		
Protection Class	IP65		
Max. Working Temperature	60 °C		



PS-04F

Rated Voltage	220-240V		
Rated Frequency	50-60Hz		
Max. Current	16(10)A		
Max. Power(P1)	1.8kW(220-240VAC)		
Starting Pressure	0.5-3bar		
Max. Working Pressure	10bar		
Screw Size	G1"		
Protection Class	IP65		
Max. Working Temperature	60 °C		

Pressure Switch



PS-02A

Rated Voltage	110-120VAC	220-240VAC
Frequency	50/60 Hz	
Max. Current	20A	12A
Max. Power(P1)	1.6kW	1.9kW
Min. Cut-in	1bar	
Max. Cut-out	7bar	
Starting/Stopping Pressure	bar: 1.0/2.1; 1.4/2.8; 2.1/3.5; 2.8/4.2; 3.5/4.9; 4.9/7.0	
Screw Size	Female: NPT1/4, ZG1/4 Male: NPT1/4, ZG1/4 Female revolving connector: G1/4, G3/8	
Protection Class	IP20	
Max. Working Temperature	60°C	

* Max. working pressure=Max. cut out*1.5

Accessories

Pressure Switch



PS-02B

Rated Voltage	110-120VAC	220-240VAC
Frequency	50/60 Hz	
Max. Current	20A	16A
Max. Power(P1)	1.6kW	2.6kW
Min. Cut-in	1bar	
Max. Cut-out	12bar	
Starting/Stopping Pressure	bar: 1.4/2.8; 2.1/3.5; 6.3/8.7; 9.6/12	
Screw Size	Female: NPT1/4, G1/4 Male: ZG1/4, M14 Female revolving connector: G1/4	
Protection Class	IP20	
Max. Working Temperature	60°C	



PS-02C

Rated Voltage	110-120VAC	220-240VAC	400VAC
Frequency	50/60 Hz		
Max. Current	16(8)A		
Max. Power(P1)	0.6kW	1.3kW	4.0kW
Min. Cut-in	1bar		
Max. Cut-out	5.5bar		
Starting/Stopping Pressure	bar: 1.2/2.4; 1.4/2.8; 1.5/3.0; 2.0/3.5; 3.5/4.9		
Screw Size	Female: NPT1/4, G1/4, Male: NPT1/4, G1/4, ZG1/4, Female revolving connector: G1/4, G3/8		
Protection Class	IP44		
Max. Working Temperature	60°C		



PS-02D

Rated Voltage	110-120VAC	220-240VAC
Frequency	50/60 Hz	
Max. Current	12A	
Max. Power(P1)	1.0kW	1.9kW
Min. Cut-in	1.4bar	
Max. Cut-out	6.9bar	
Starting/Stopping Pressure	bar: 1.4/2.8; 2.1/3.4; 2.8/4.1; 3.4/4.8	
Screw Size	Female: G1/4, Male: ZG1/4, G1/4, NPT1/4 Female revolving connector: G1/4, G3/8	
Protection Class	IP20	
Max. Working Temperature	60°C	

* Max. working pressure=Max. cut out*1.5

Capacitor



2 wires

2(4) terminals

Capacity(μF)	Type	Diameter(mm)	Length (mm)
6	2 wires	32	66
8	2 wires	32	66
8	4 terminals	35	72
10	2 wires	34	62
10	4 terminals	35	72
12	2 wires	40	73
16	2 wires	42	71
16	4 terminals	42	73
20	2 wires	42	74
20	4 terminals	42	74
25	2 wires	42	82
35	4 terminals	42	70
40	2 wires	42	82
40	4 terminals	45	73
42.5	2 terminals	51	100
45	2 terminals	51	100
50	2 terminals	51	100

Float Switch



FLO-01B

FLO-01B(With balance block)

Model	FLO-01B	FLO-01B(With balance block)
Specification	16(8)A 125/250V	
Cable	H07RN-F/8-F 3G1.0mm2x0.55m/0.65m/0.75m/2m/3m/5m/10m	
Lifetime	50000 cycles	
IP Protection	IP X8	
Operating Limits	Fluid temperature up to 35°C Max. ambient temperature 40°C	