



SINCE 1976

修附電機



SV

渦旋型污物幫浦

SVA

自動浮球式
渦旋型污物幫浦

TOS-SV

著脫架組



SHOWFOU PUMP

SV type Submersible Sewage Vortex Pump

SVA type Automatic Submersible Sewage Vortex Pump
with float switch

TOS-SV type Guide Rail Kit



SV
1/2 HP

SV
1HP

SV, 1 ϕ
2HP, 3HP

SV, 3 ϕ
2HP, 3HP

SV
5HP~10HP

SVA
1/2 HP
1 HP

沉水式渦旋型污物幫浦 SV . SVA TYPE VORTEX SEWAGE PUMPS

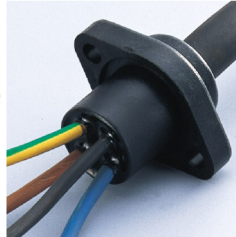
Vortex Impeller and Wide Interior Pump Casing eliminates the Possible Clogging and Entanglement of Solids and Fibrous Matter.

■ FEATURES 特點

- EPOXY Cable Sealing Base

電纜線防水(EPOXY)樹脂基座

Waterproof cable to prevent water infiltration, cable ends sealed with epoxy resin, and lead wires are partially tripped off for perfect resin sealing. Triple protection for the motor against water penetration.



- Built-in Motor Protector

馬達配備電流保護開關

Every SV/SVA type pump is equipped with a self-reset thermal protector to avoid over-loading, locking of impeller, and scorch damage to the motor from phase failure.



- SiC Mechanical Seal

採用矽碳鋼機械軸封

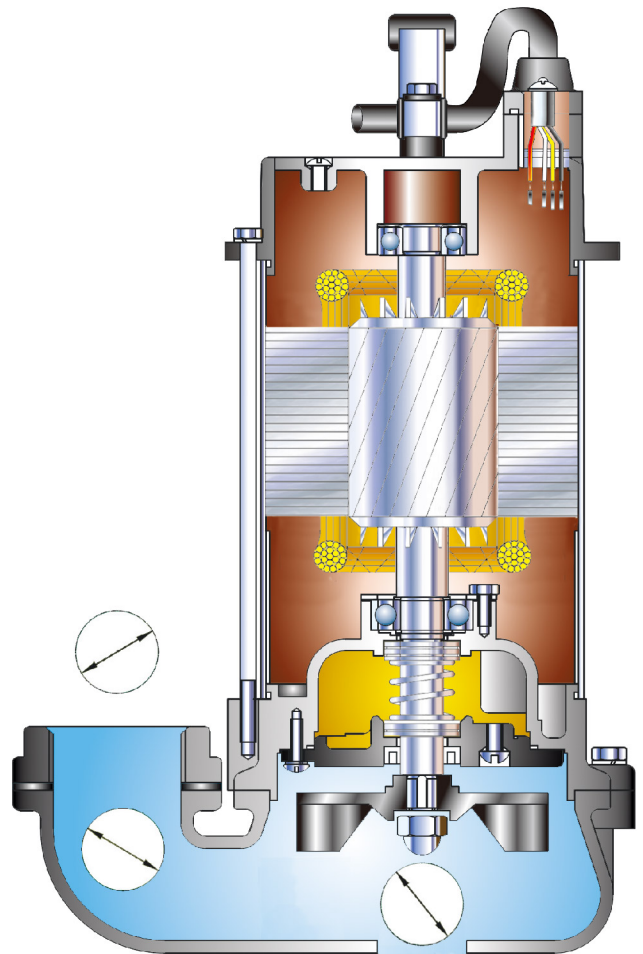
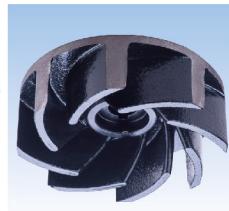
Equipped with double mechanical seals and adopted with heat-and-corrosion-resistant silicon carbide mechanical seal to protect the motor from water infiltration.



- Vortex Impeller Design

漩渦型水葉設計

The specially designed non-clog impeller will create high speed whirlpool inside the pump casing. The impeller with projection will be especially suitable for transportation of sewage containing belt-shaped piece goods, fibrous and stinky material.



■ APPLICATIONS 用途

Ideal for sewage, industrial & groundwater drainage installation in the following fields :

WASTEWATER TREATMENT PLANTS

- Sewage pumping stations.
- Sewage treatment plants.
- Septic tanks.
- Collecting & settling sumps.

INDUSTRIAL SITES

- Dirty water in Mills & Factories
- Flood & emergency.
- Plant for preventing pollution, sewage and drainage treatment
- Washing plant, dust collecting plant and air cleaning plant.

適用於以下領域的污水，工業和地下水排水設施：
廢水處理廠

- 污水泵站。
- 污水處理廠。
- 化糞池。
- 收集和沉澱池。

工業用地

- 加工廠和工廠產生的汙水。
- 淨水廠。
- 洪水與緊急設施。
- 防止污染、污水和排水處理的設備。
- 洗滌廠、集塵廠和淨化空氣的廠房。

SPECIFICATIONS 性能規格表

型 式 TYPE			電 動 機 MOTOR				PUMP		50Hz		60Hz		通過	電 纜	重 量
標準型 Manual	自動浮球型 Automatic	著脫架組 Guide Rail Kit	輸出功率 Power	相數 Phase	電 壓 Voltage	口 徑 Disch. Dia.		最高揚程 Max. Head	最大水量 Max. Flow	最高揚程 Max. Head	最大水量 Max. Flow	粒 徑 Solid Passage			※ Weight
SV	SVA	TOS-SV	HP	kW	PH	V	inch	mm	M	m³/min	M	m³/min	mm	mm²xM	kG
SV-0511	SVA-0511	TOS-50-SV (2",50mm)	1/2	0.4	1	100-120	2	50	10	0.27	10	0.26	Ø35	1.25² x 6	16.5
SV-0512	SVA-0512					200-240								1.25² x 6	
SV-0532					3	200-480								1.25² x 6	
SV-0511L	SVA-0511L		1/2	0.4	1	100-120	2	50	7	0.33	7	0.35	Ø50	1.25² x 6	17
SV-0512L	SVA-0512L					200-240								1.25² x 6	
SV-0532L					3	200-480								1.25² x 6	
SV-111	SVA-111		1	0.75	1	100-120	2	50	13	0.33	14	0.33	Ø35	2.0² x 6	20
SV-112	SVA-112					200-240								2.0² x 6	
SV-132					3	200-480								1.25² x 6	
SV-111L	SVA-111L		1	0.75	1	100-120	2	50	10	0.46	10	0.45	Ø50	2.0² x 6	20.5
SV-112L	SVA-112L				200-240	2.0² x 6									
SV-132L		3			200-480	1.25² x 6									
SV-212		TOS-80-SV (3",80mm)	2	1.5	1	200-480	3	80	14	0.64	16	0.61	Ø50	3.5² x 10	42
SV-232					3	200-480								2.0² x 10	
SV-212L					1	200-480								3.5² x 10	
SV-232L			2	1.5	3	200-480	3	80	8	0.85	7	0.8	Ø80	2.0² x 10	40.5
SV-312					1	200-480								3.5² x 10	
SV-332					3	200-480								2.0² x 10	
SV-312L			3	2.2	1	200-480	3	80	17	0.73	17	0.73	Ø50	3.5² x 10	44
SV-332L					3	200-480								2.0² x 10	
SV-532					3	200-480								2.0² x 10	
SV-532L			5	3.7	3	200-480	3	80	23	1.0	25	1.0	Ø50	2.0² x 10	55
SV-732		3			200-480	2.0² x 10									
SV-732L		3			200-480	2.0² x 10									
SV-1032		TOS-80-SV2 (3",80mm)	7.5	5.5	3	200-480	3	80	21	1.4	21	1.1	Ø80	5.5² x 10	72
SV-1032L			10	7.5	3	200-480	3	80	34	1.4	37	1.3	Ø50	5.5² x 10	76
SV-1032L			10	7.5	3	200-480	3	80	26	1.6	28	1.4	Ø80	5.5² x 10	78

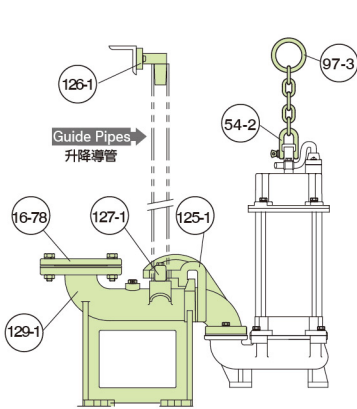
※ The listed weight does not include the weight of “Guide Rail Kit”. 上述重量不含著脫架組的重量

TOS-SV Type GUIDE RAIL KIT 著脫架組 (Optional, 選購)

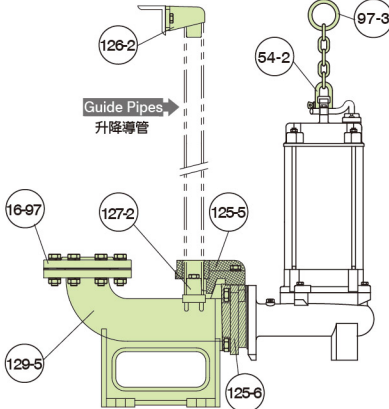
Customer can order the TOS-SV type “Guide Rail Kit” to perform connection / disconnection between a pump and piping only by lifting the pump down / up along the guide pipes, so the maintenance and inspection work can be done without entering the pump sump.

顧客可訂購TOS-SV型著脫架組讓幫浦本體可利用吊鍊順著導桿之升降，與管路結合或脫離。所以，安裝或維修人員不必進入廢水或化糞池內，即可在池外進行安裝、維修或定期維護的工作，既安全又方便，且不必忍受池內的惡臭味。

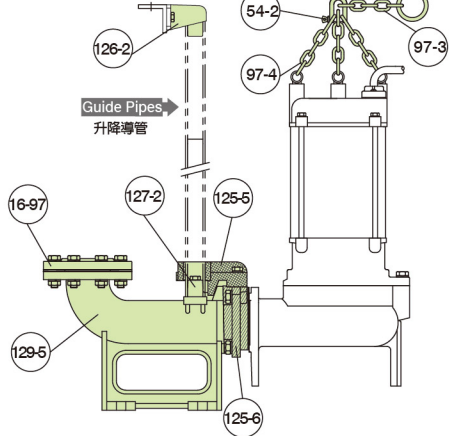
TOS-50-SV



TOS-80-SV



TOS-80-SV2



STANDARD ACCESSORIES of TOS-SV 著脫架組的標準配件

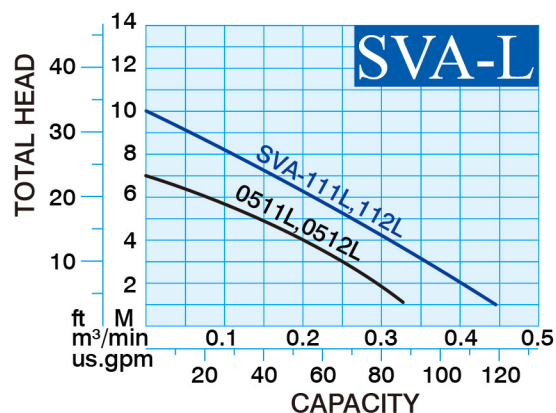
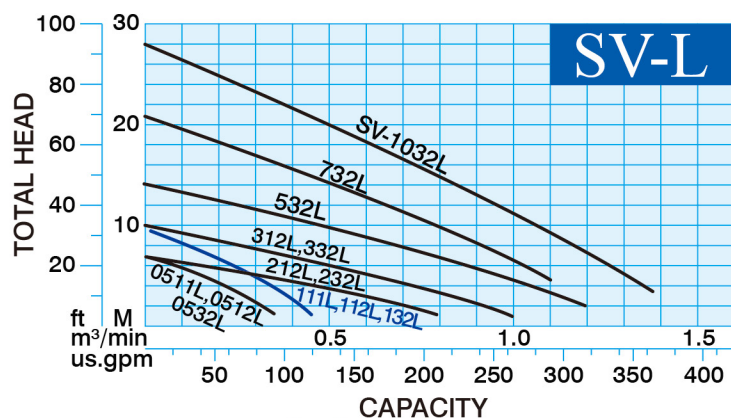
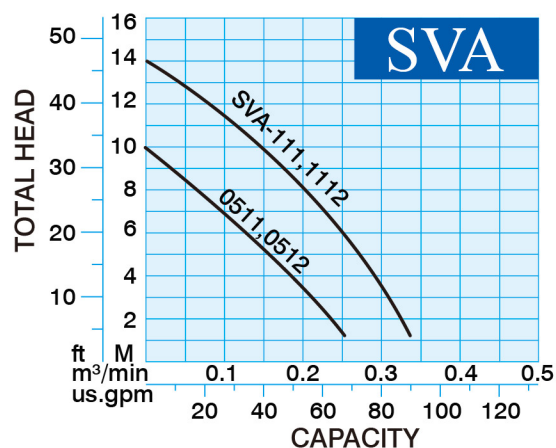
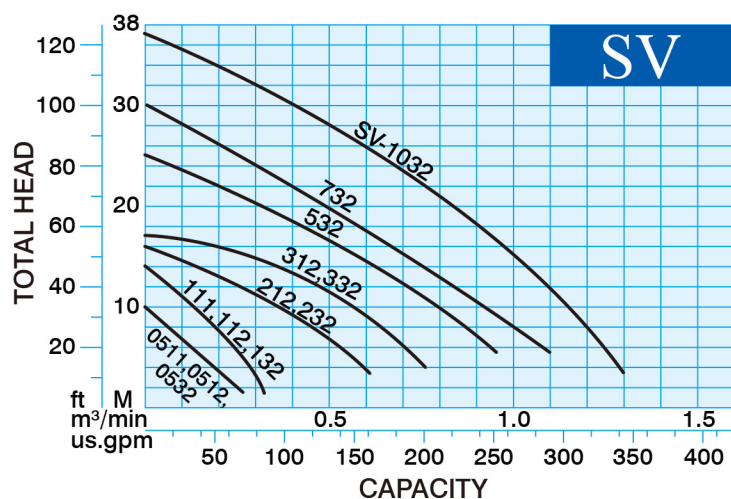
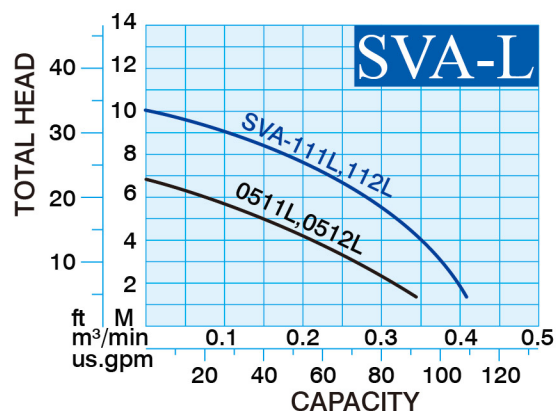
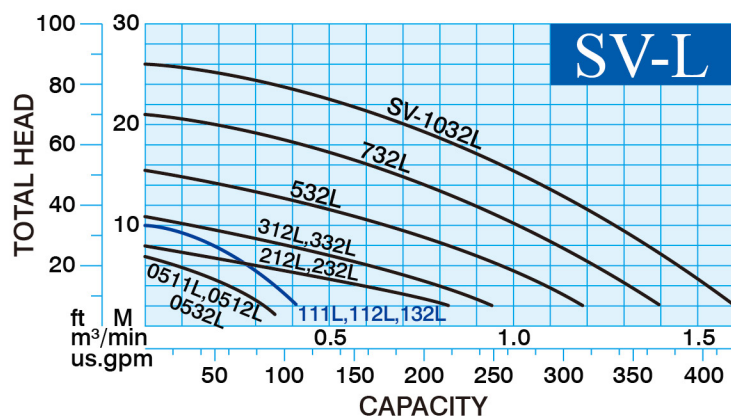
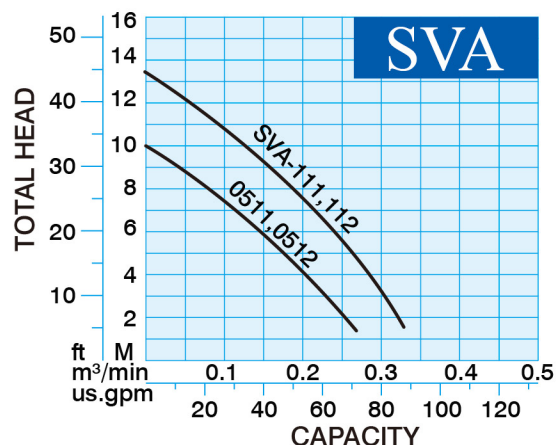
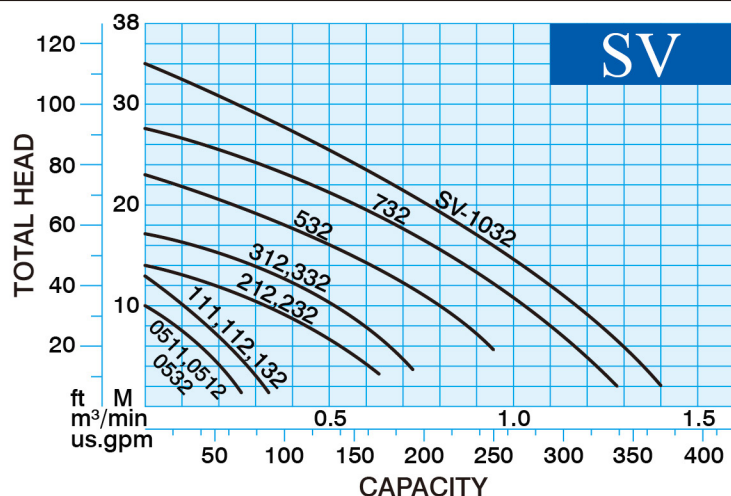
NO.	PARTS LIST	零件名稱	MATERIAL 材質	TOS-50-SV	TOS-80-SV	TOS-80-SV2
16	Flange Setter	法蘭途	Cast iron 鑄鐵	#16-78	#16-97	#16-97
54	Shackle	下古	SUS304 不銹鋼	#54-2	#54-2	#54-2
97	Chain	鏈條	SUS304 不銹鋼	#97-3	#97-3	#97-3 #97-4
125	Guide Connector	脫架固定勾	Cast iron 鑄鐵	#125-1	#125-5 #125-6	#125-5 #125-6
126	Upper guide support	固定桿托架	Cast iron 鑄鐵	#126-1	#126-2	#126-2
127	Lower guide support	固定桿托塊	Cast iron 鑄鐵	#127-1	#127-2	#127-2
129	Duck foot bend	脫架本座	Cast iron 鑄鐵	#129-1	#129-5	#129-5

WEIGHT of TOS-SV

TOS-SV型著脫架組的重量

TYPE 型式	Weight 重量
TOS-50-SV	20 kG
TOS-80-SV	34 kG
TOS-80-SV2	34 kG

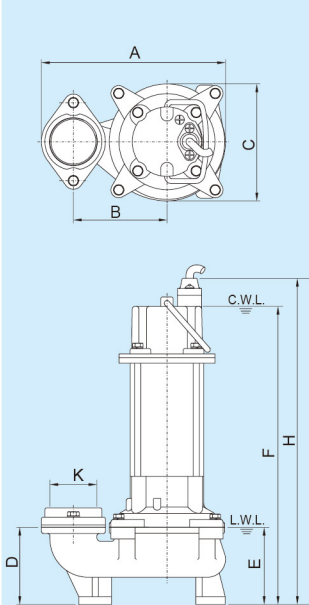
◎The guide pipes are not included in the kit. “升降導管”不包含在著脫架組內



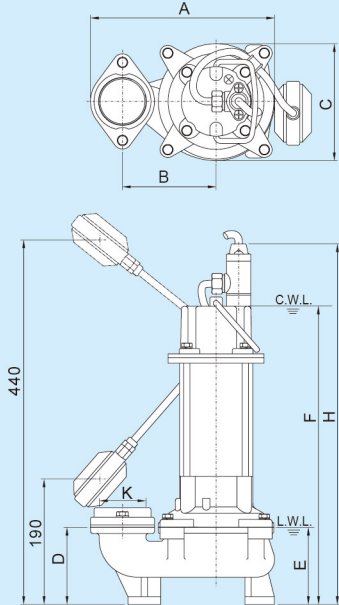
DIMENSIONS OF PUMPS 外觀尺寸圖(幫浦)

C.W.L. : Continuous Running Water Level 連續運轉水位
L.W.L. : Lowest Running Water Level 運轉最低水位

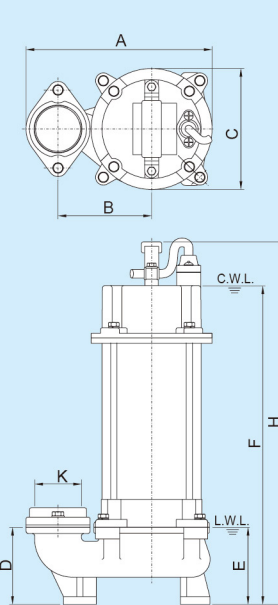
SV
0.5HP



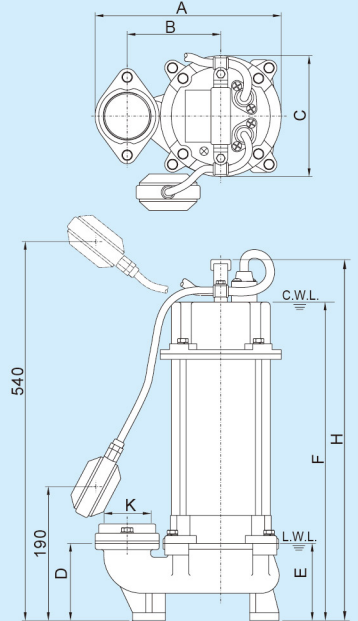
SVA
0.5HP



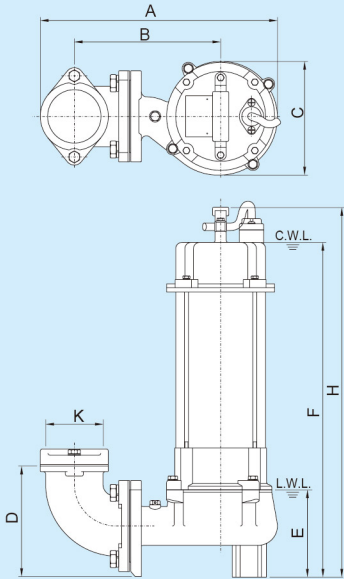
SV
1HP



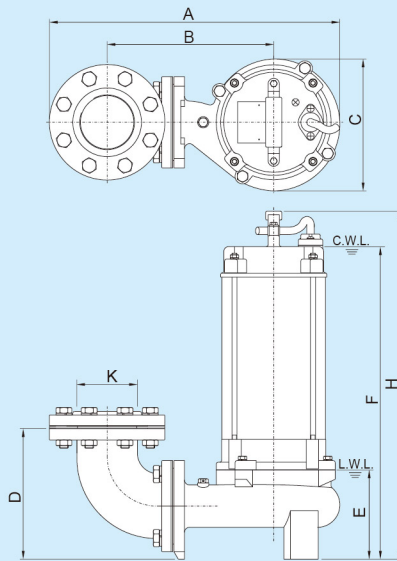
SVA
1HP



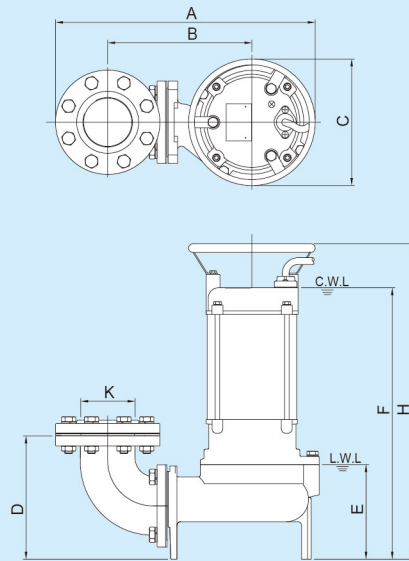
SV
2HP
3HP



SV
5HP



SV
7.5HP
10 HP



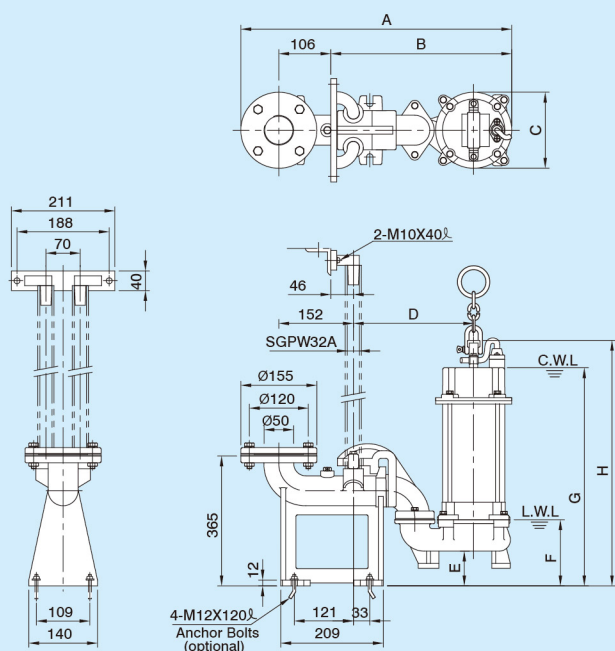
UNIT(單位):mm

TYPE	HP	A	B	C	D	E	F	H	K
SV-0511/0512/0532	0.5	236	120	150	99	99	382	420	50
SV-0511L/0512L/0532L	0.5	236	120	150	131	131	414	452	50
SVA-0511/0512	0.5	236	120	150	99	99	382	463	50
SVA-0511L/0512L	0.5	236	120	150	131	131	414	495	50
SV-111/112/132	1	240	120	155	99	99	409	465	50
SV-111L/112L/132L	1	240	120	155	131	131	441	497	50
SVA-111/112	1	240	120	155	99	99	409	463	50
SVA-111L/112L	1	240	120	155	131	131	441	495	50
SV-212	2	380	235	182	177	140	537	593	80
SV-212L	2	380	235	182	239	202	599	655	80
SV-232	2	380	235	182	177	140	456	512	80
SV-232L	2	380	235	182	239	202	518	574	80

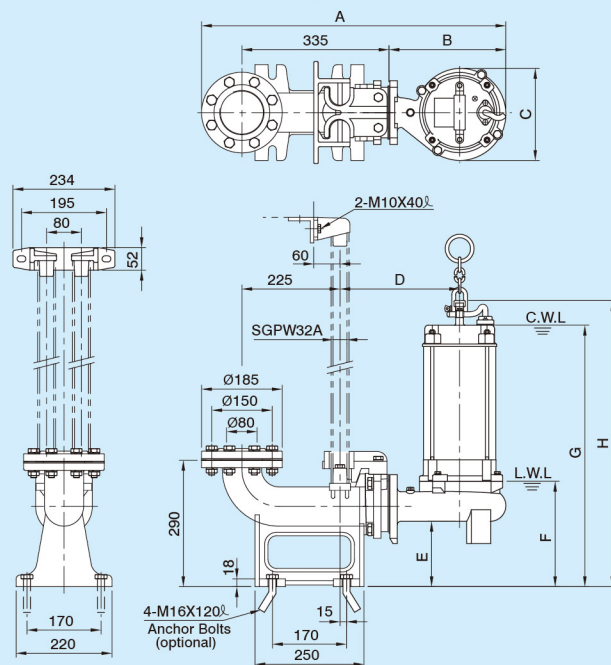
TYPE	HP	A	B	C	D	E	F	H	K
SV-312	3	380	235	182	177	140	547	603	80
SV-312L	3	380	235	182	239	202	609	665	80
SV-332	3	380	235	182	177	140	476	532	80
SV-332L	3	380	235	182	239	202	538	594	80
SV-532	5	466	267	212	209	143	501	560	80
SV-532L	5	466	267	212	270	204	562	621	80
SV-732	7.5	536	296	277	225	145	532	628	80
SV-732L	7.5	536	296	277	287	207	594	690	80
SV-1032	10	536	296	277	225	145	562	658	80
SV-1032L	10	536	296	277	287	207	624	720	80

DIMENSIONS OF PUMP AND GUIDE RAIL KIT 外觀尺寸圖(幫浦與著脫架組)

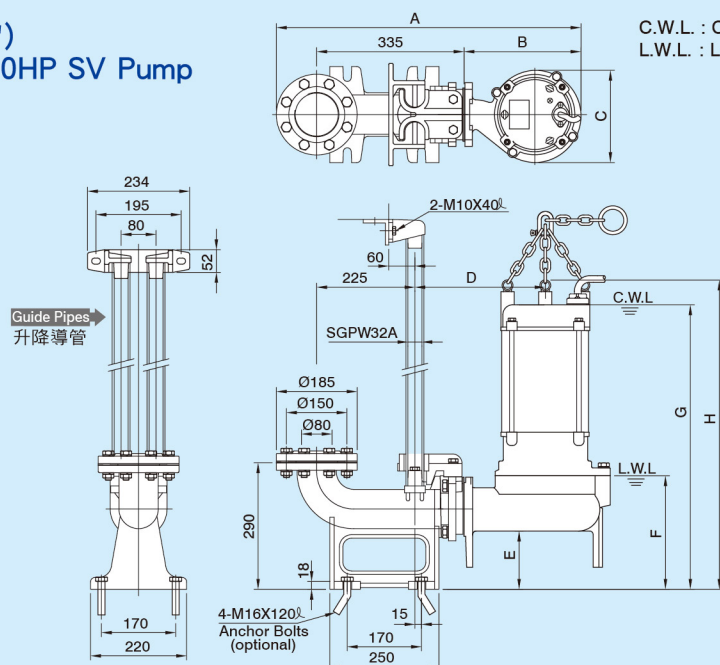
TOS-50-SV(2")
- For 0.5 and 1HP SV Pump



TOS-80-SV(3")
- For 2 ~ 5HP SV Pump



TOS-80-SV2(3")
- For 7.5 and 10HP SV Pump



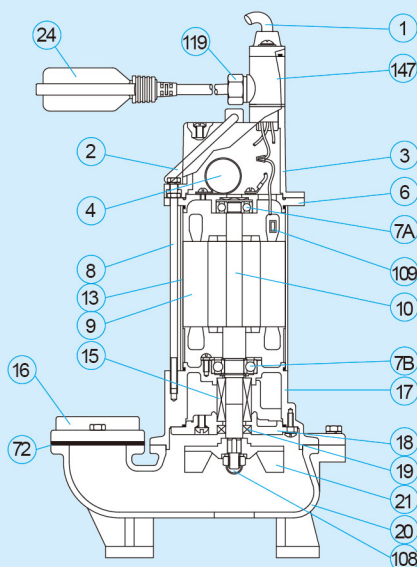
C.W.L. : Continuous Running Water Level 連續運轉水位
L.W.L. : Lowest Running Water Level 運轉最低水位

UNIT(單位):mm

TYPE	HP	A	B	C	D	E	F	G	H
SV-0511	0.5	550	366	150	246	71	135	419	445
SV-0512	0.5	550	366	150	246	71	135	419	445
SV-0532	0.5	550	366	150	246	71	135	419	445
SV-0511L	0.5	550	366	150	246	56	135	419	445
SV-0512L	0.5	550	366	150	246	56	135	419	445
SV-0532L	0.5	550	366	150	246	56	135	419	445
SV-111	1	553	369	150	246	71	135	445	501
SV-112	1	553	369	150	246	71	135	445	501
SV-132	1	553	369	150	246	71	135	445	501
SV-111L	1	553	369	150	246	56	135	445	501
SV-112L	1	553	369	150	246	56	135	445	501
SV-132L	1	553	369	150	246	56	135	445	501

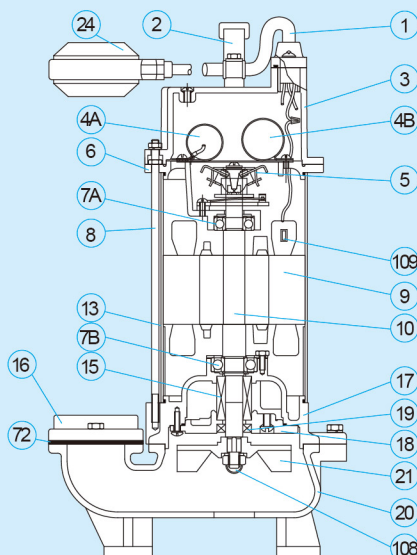
TYPE	HP	A	B	C	D	E	F	G	H
SV-212	2	667	240	182	258	153	242	639	695
SV-232	2	667	240	182	258	153	242	558	614
SV-212L	2	667	240	182	258	139	242	639	695
SV-232L	2	667	240	182	258	139	242	558	614
SV-312	3	667	240	182	258	153	242	649	705
SV-332	3	667	240	182	258	153	242	578	634
SV-312L	3	667	240	182	258	139	242	649	705
SV-332L	3	667	240	182	258	139	242	578	634
SV-532	5	698	271	212	275	150	242	600	657
SV-532L	5	698	271	212	275	137	242	600	657
SV-732	7.5	734	306	249	294	150	242	655	676
SV-732L	7.5	734	306	249	294	130	242	655	676
SV-1032	10	734	306	249	294	150	242	685	706
SV-1032L	10	734	306	249	294	130	242	685	706

SV/SVA
0.5HP



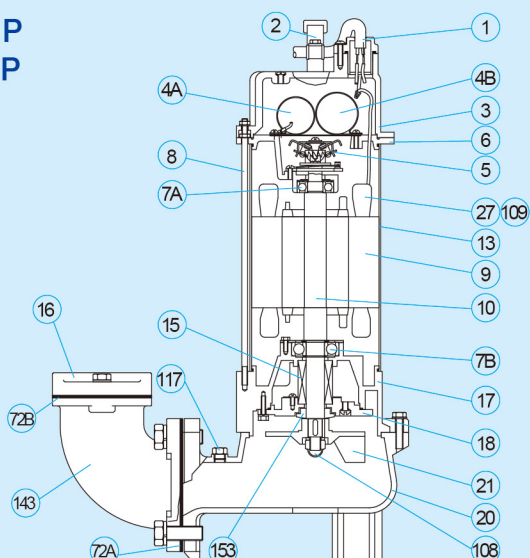
NO.	PARTS LIST	零件名稱	MATERIAL	材質
1	Cable※	電纜線	V.C.T.	V.C.T
2	Handle	手把	Stinless Steel	不銹鋼
3	Motor Head Cover	馬達上蓋	Cast Iron	鑄鐵
4	Capacitor(running)	電容器	1Ø only	僅單相機種
6	Upper Bracket	馬達內盤	Cast Iron	鑄鐵
7A	Upper Ball Bearing	上軸承		
7B	Lower Ball Bearing	下軸承		
8	Bolt	螺絲	Stainless Steel	不銹鋼
9	Coil + Stator	馬達線圈		
10	Shaft + Rotor	主軸(含轉子)	S45C(Shaft)	中碳鋼(主軸)
13	Motor Casing	馬達中框	Stainless Steel	不銹鋼
15	Mechanical Seal	機械軸封	Silicon Carbide	矽碳鋼
16	Flange Setter	法蘭途	Cast Iron	鑄鐵
17	Motor Lower Cover	馬達下蓋	Cast Iron	鑄鐵
18	Mechanical Seal Cover	細日盤	Plastic	塑膠
19	Oil Seal	油封		
20	Pump Casing	水機	Cast Iron	鑄鐵
21	Impeller	水葉	Cast Iron	鑄鐵
24	Floating Switch	浮球開關	Only for SVA	僅SVA
72	Outlet Rubber	出口徑橡皮	NBR	丁腈橡膠
108	Cap Nut	袋帽	Stainless Steel	不銹鋼
109	Thermal Protector	溫度保護開關	1Ø only	僅單相機種
119	Nut	止洩螺帽	Only for SVA	銅
143	Plastic Connection	浮球開關座	Only for SVA	僅SVA

SV/SVA
1HP



NO.	PARTS LIST	零件名稱	MATERIAL	材質
1	Cable※	電纜線	V.C.T.	V.C.T
2	Handle	手把	Stinless Steel	不銹鋼
3	Motor Head Cover	馬達上蓋	Cast Iron	鑄鐵
4A	Capacitor(running)	電容器	1Ø only	僅單相機種
4B	Capacitor(starting)	電容器	For SV/SVA-111	僅SV/SVA-111
5	Centrifugal Switch	離心開關	For SV/SVA-111	僅SV/SVA-111
6	Upper Bracket	馬達內盤	Cast Iron	鑄鐵
7A	Upper Ball Bearing	上軸承		
7B	Lower Ball Bearing	下軸承		
8	Bolt	螺絲	Stainless Steel	不銹鋼
9	Coil + Stator	馬達線圈		
10	Shaft + Rotor	主軸(含轉子)	S45C(Shaft)	中碳鋼(主軸)
13	Motor Casing	馬達中框	Stainless Steel	不銹鋼
15	Mechanical Seal	機械軸封	Silicon Carbide	矽碳鋼
16	Flange Setter	法蘭途	Cast Iron	鑄鐵
17	Motor Lower Cover	馬達下蓋	Cast Iron	鑄鐵
18	Mechanical Seal Cover	細日盤	Plastic	塑膠
19	Oil Seal	油封	NBR	丁腈橡膠
20	Pump Casing	水機	Cast Iron	鑄鐵
21	Impeller	水葉	Cast Iron	鑄鐵
24	Floating Switch	浮球開關	Only for SVA	僅SVA
72	Outlet Rubber	出口徑橡皮	NBR	丁腈橡膠
108	Cap Nut	袋帽	Stainless Steel	不銹鋼
109	Thermal Protector	溫度保護開關	1Ø only	僅單相機種

SV
2HP
3HP

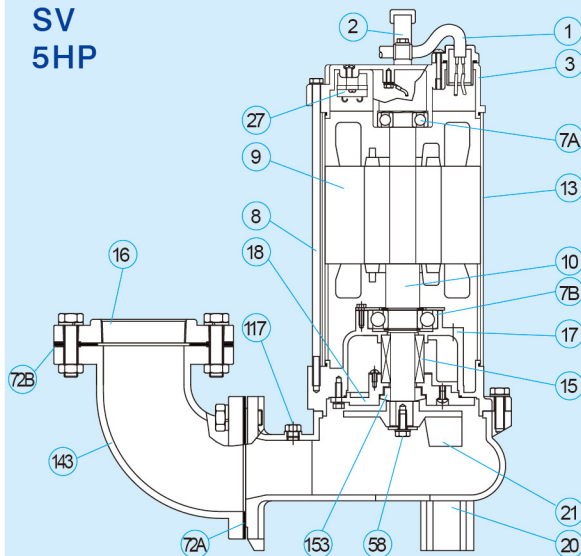


NO.	PARTS LIST	零件名稱	MATERIAL	材質
1	Cable※	電纜線	V.C.T.	V.C.T
2	Handle	手把	Stinless Steel	不銹鋼
3	Motor Head Cover	馬達上蓋	Cast Iron	鑄鐵
4A	Capacitor(running)	電容器	1Ø only	僅單相機種
4B	Capacitor(starting)	電容器	1Ø only	僅單相機種
5	Centrifugal Switch	離心開關	1Ø only	僅單相機種
6	Upper Bracket	馬達內盤	Cast Iron	鑄鐵
7A	Upper Ball Bearing	上軸承		
7B	Lower Ball Bearing	下軸承		
8	Bolt	螺絲	Stainless Steel	不銹鋼
9	Coil + Stator	馬達線圈		
10	Shaft + Rotor	主軸(含轉子)	S45C(Shaft)	中碳鋼(主軸)
13	Motor Casing	馬達中框	Stainless Steel	不銹鋼
15	Mechanical Seal	機械軸封	Silicon Carbide	矽碳鋼
16	Flange Setter	法蘭途	Cast Iron	鑄鐵
17	Motor Lower Cover	馬達下蓋	Cast Iron	鑄鐵
18	Mechanical Seal Cover	細日盤	Plastic	塑膠
20	Pump Casing	水機	Cast Iron	鑄鐵
21	Impeller	水葉	Cast Iron	鑄鐵
27	Circle Thermal Protector	電流保護開關	3Ø only	僅三相機種
72A	Outlet Rubber	出口徑橡皮	NBR	丁腈橡膠
72B	Outlet Rubber	出口徑橡皮	NBR	丁腈橡膠
108	Cap Nut	袋帽	Steel	鐵
109	Thermal Protector	溫度保護開關	2HP, 1Ø only	僅2HP, 單相機種
117	Vented Screw	透氣螺柱	Plastic Steel	塑膠鋼
143	Elbow	彎管	Cast Iron	鑄鐵
153	Sand Proof Trap	防砂帽	Synthetic Rubber	合成橡膠

※ Different type of cable may equip per local electrical code or standard, such as CSA, UL or CE mark, or on demand.

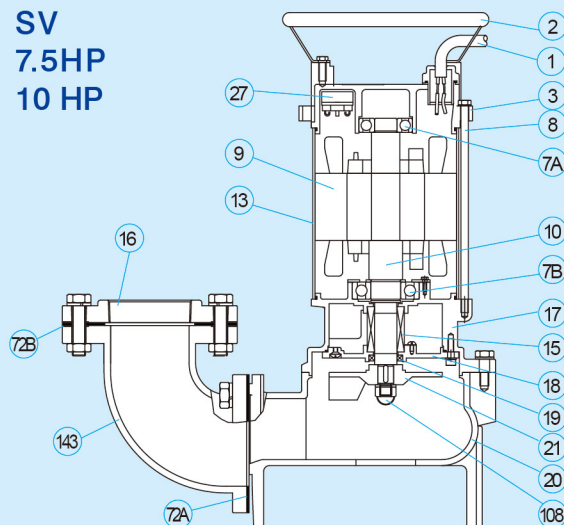
CONSTRUCTIONS 結構圖

SV
5HP



NO.	PARTS LIST	零件名稱	MATERIAL	材質
1	Cable※	電纜線	V.C.T.	V.C.T
2	Handle	手把	Stinless Steel	不銹鋼
3	Motor Head Cover	馬達上蓋	Cast Iron	鑄鐵
7A	Upper Ball Bearing	上軸承		
7B	Lower Ball Bearing	下軸承		
8	Bolt	螺絲	Stainless Steel	不銹鋼
9	Coil + Stator	馬達線圈		
10	Shaft + Rotor	主軸(含轉子)	S45C(Shaft)	中碳鋼(主軸)
13	Motor Casing	馬達中框	Stainless Steel	不銹鋼
15	Mechanical Seal	機械軸封	Silicon Carbide	矽碳鋼
16	Flange Setter	法蘭途	Cast Iron	鑄鐵
17	Motor Lower Cover	馬達下蓋	Cast Iron	鑄鐵
18	Mechanical Seal Cover	細日盤	Plastic	塑膠
20	Pump Casing	水機	Cast Iron	鑄鐵
21	Impeller	水葉	Cast Iron	鑄鐵
27	Circle Motor Protector	電流保護開關		
58	Bolt	公六角螺絲		
72A	Outlet Rubber	出口徑橡皮	NBR	丁腈橡膠
72B	Outlet Rubber	出口徑橡皮	NBR	丁腈橡膠
143	Elbow	彎管	Cast Iron	鑄鐵
153	Sand Proof Trap	防砂帽	NBR	丁腈橡膠

SV
7.5HP
10 HP



NO.	PARTS LIST	零件名稱	MATERIAL	材質
1	Cable※	電纜線	V.C.T.	V.C.T
2	Handle	手把	Stinless Steel	不銹鋼
3	Motor Head Cover	馬達上蓋	Cast Iron	鑄鐵
7A	Upper Ball Bearing	上軸承		
7B	Lower Ball Bearing	下軸承		
8	Bolt	長螺絲	Stainless Steel	不銹鋼
9	Coil + Stator	馬達線圈		
10	Shaft + Rotor	主軸(含轉子)	S45C(Shaft)	中碳鋼(主軸)
13	Motor Casing	馬達中框	Stainless Steel	不銹鋼
15	Mechanical Seal	機械軸封	Silicon Carbide	矽碳鋼
16	Flange Setter	法蘭途	Cast Iron	鑄鐵
17	Motor Lower Cover	馬達下蓋	Cast Iron	鑄鐵
18	Mechanical Seal Cover	細日盤	Plastic	塑膠
19	Oil Seal	油封		
20	Pump Casing	水機	Cast Iron	鑄鐵
21	Impeller	水葉	Cast Iron	鑄鐵
27	Circle Motor Protector	電流保護開關		
72A	Outlet Rubber	出口徑橡皮	NBR	丁腈橡膠
72B	Outlet Rubber	出口徑橡皮	NBR	丁腈橡膠
108	Cap Nut	袋帽	Steel	鐵
143	Elbow	彎管	Cast Iron	鑄鐵

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AGENT

All specifications subject to change without notice.