



SUBMERSIBLE VORTEX
SEWAGE PUMP
ESV
SERIES 50HZ



ESV-5.01



ESV-5.02AG/5.03AG



ESV-5.02AM/5.03AM

Features

- Oil chamber design to ensure mechanical seal long service life
- Suspended impeller design, non-clogging
- Compact design, light weight

Applications

- Discharge water
- Livestock production
- Sprinkling
- Sump pit

Specifications

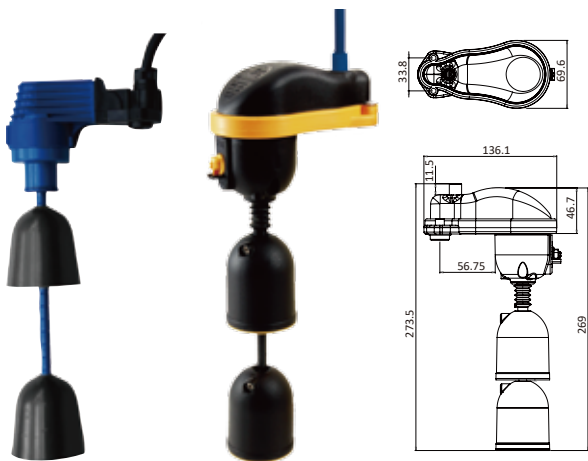
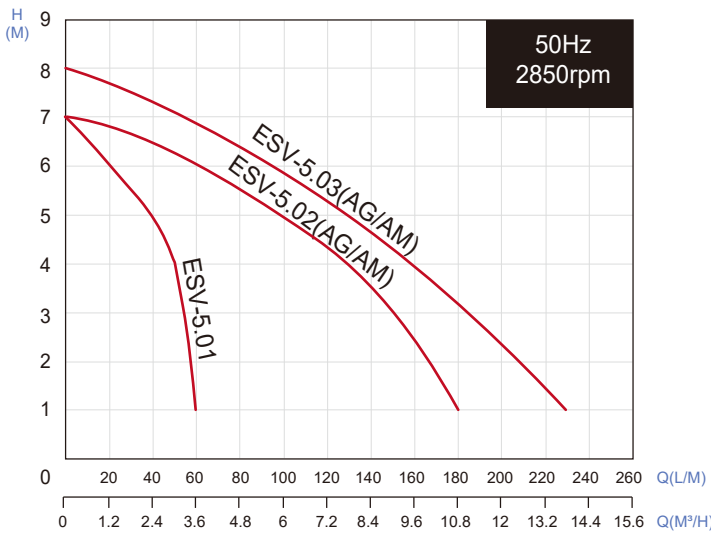
Liquid Temperature		0~40°C (32~104°F)	
Submersible depth		10M	
Motor Part	Frequency	50Hz	
	Pole	2 Pole	
	Type	Dry Type	
	Insulation	Class B	
Pump Part	Protection	IP 68	
	Protector	Auto-cut	
	Bearing	Ball Type	
	Mechanical seal	Double Mechanical Seal	
Impeller		Vortex Impeller	

Data Chart

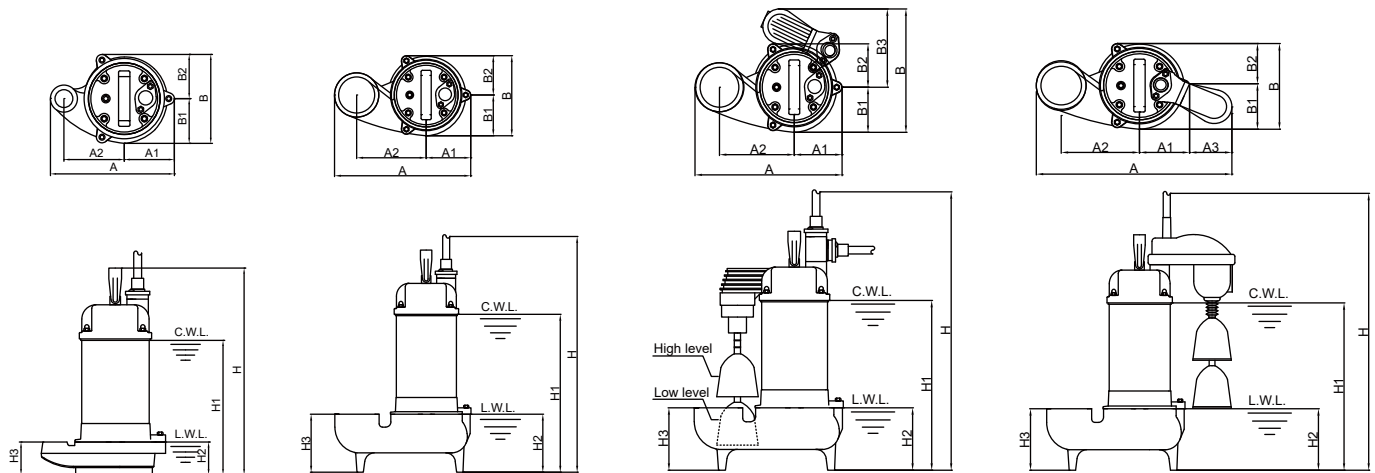
Type	Output		Discharge	F.L.A.		Rated		Maximum		Free Passage	Weight(W/O Cable)
	HP	W		1ø 230V	3ø 400V	Head M	Cap. LPM	Head M	Cap. LPM		
ESV-5.01	0.125	100	1"	1.2A	0.7A	4	50	7	60	4	4.45
ESV-5.02	0.2	150	1.5"(2")	1.6A	0.8A	4.5	115	7	180	24	6.2(6.5)
ESV-5.02AG	0.2	150	1.5"(2")	1.6A	-	4.5	115	7	180	24	6.7(7)
ESV-5.02AM	0.2	150	1.5"(2")	1.6A	-	4.5	115	7	180	24	6.7(7)
ESV-5.03	0.3	250	1.5"(2")	2A	0.9A	5	130	8	230	25	6.6(6.9)
ESV-5.03AG	0.3	250	1.5"(2")	2A	-	5	130	8	230	25	7.1(7.4)
ESV-5.03AM	0.3	250	1.5"(2")	2A	-	5	130	8	230	25	7.1(7.4)

» Float switch is optional for above pump in single phase.

Performance Curve



Unit:mm



ESV-5.01

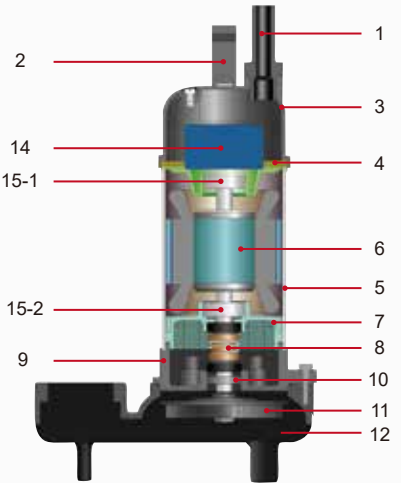
ESV-5.02~03

AG : with AGMA-W level regulator

AM : with Mouse level regulator

Dimensions (mm)

Type	Discharge	A	A1	A2	A3	B	B1	B2	H	H1	H2	H3	H4
ESV-5.01	25	175	73	90	-	124	62	62	-	280	188	45	45
ESV-5.02	40	213	83	90	-	130	63	67	-	314	235	81	81
ESV-5.02AG	40	213	83	90	-	210	63	67	147	350	235	81	81
ESV-5.02AM	40	300	83	90	72	130	63	67	-	350	235	81	81
ESV-5.02	50	228	83	110	-	130	63	67	-	324	245	91	91
ESV-5.02AG	50	228	83	110	-	210	63	67	147	360	245	91	91
ESV-5.02AM	50	300	83	110	72	130	63	67	-	360	245	91	91
ESV-5.03	40	213	83	90	-	130	63	67	-	324	245	81	81
ESV-5.03AG	40	213	83	90	-	210	63	67	147	360	245	81	81
ESV-5.03AM	40	300	83	90	72	130	63	67	-	360	245	81	81
ESV-5.03	50	228	83	110	-	130	63	67	-	334	255	91	91
ESV-5.03AG	50	228	83	110	-	210	63	67	147	370	255	91	91
ESV-5.03AM	50	300	83	110	72	130	63	67	-	370	255	91	91



Parts and Material List

No.	Part	Material
1	Cable	H07RN-F/SJTOW/STOW
2	Handle	Nylon 6
3	Motor Cover	PA66+Glass Fiber
4	Bracket	Steel
5	Motor Housing + Stator	AISI 304
6	Shaft with Rotor	AISI 410
7	Oil Chamber	Cast Iron
8	Mechanical Seal	Upper : CA/CE Lower : CA/CE
9	Seal Housing	Nylon
10	Lip Seal	NBR
11	Impeller	ABS + Glass Fiber
12	Pump Casing	Cast Iron
14	Capacitor	
15-1	Upper Bearing	NTN/TPI
15-2	Lower Bearing	NTN/TPI

TPI is a family brand of NTN group.