

EBV(E) SUBMERSIBLE DRAINAGE PUMP



The EBV series pump is a portable lightweight drainage pump, used to pumping liquid in ordinary buildings and foundations works. The structural components are made of lightweight material, such as aluminum alloy, rubber, etc, which are suitable for handling on construction sites. The small outer diameter of the pump allows it to be used in a narrow space. The pump suction is on the bottom of the pump and discharged from the top through side wall channel of the motor. This assists with cooling even when the pump is not fully submerged. The high chrome impeller cast iron impeller and rubber pump body are very wear resistant. The semi open impeller has a large gap between the impeller and the pump body, so the impeller will not be easily stuck by mud or sand. The hose coupling could be installed vertically or obliquely to prevent the soft hose pipe from folding or bending.



Specification

- Capacity: up to 238 GPM
- Head: up to 122 FT
- Power: 1.5kW (2HP) to 5.5 kW (7.5HP)
- Power Supply: Single phase 120V ±10%, 60Hz
Three phase 460V ±10%, 60Hz
- Insulation class: F
- Protection class: IP68

- Cable length: 26 ft
- Water temperature: up to 104 °F
- Max water depth: 82 ft

Application

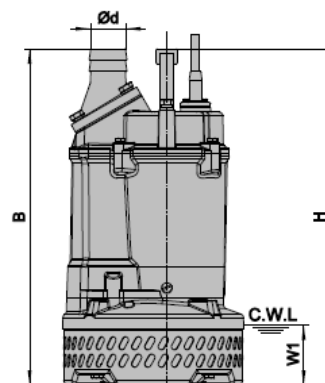
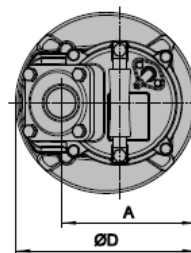
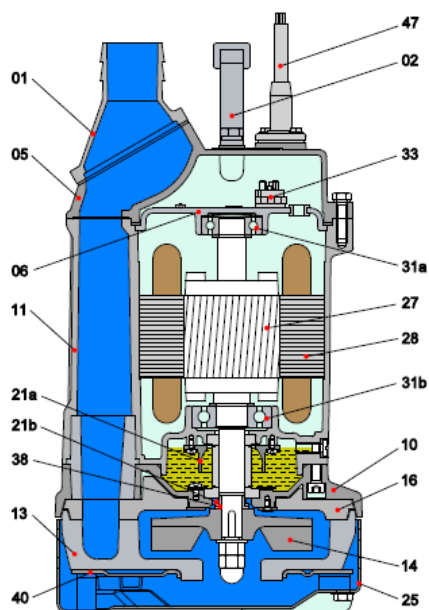
- Civil engineering
- Building sites
- General pumping purposes

Special features on request

- Other voltages
- Cable length is adjustable



EBV(E) SUBMERSIBLE DRAINAGE PUMP



C.W.L.: continuous running water level

Materials of components

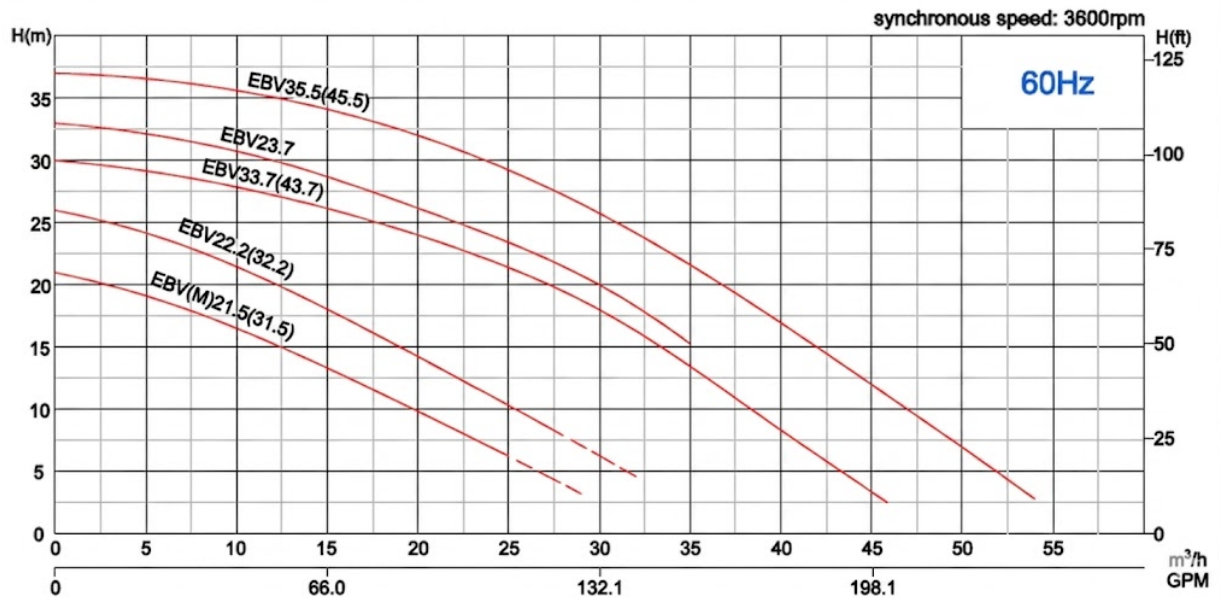
Item No.	Part name	Material	Item No.	Part name	Material
01	Hose coupling	Aluminum die casting	21b	Sand guard	NBR
02	Handle	Rubber & steel	27	Stator	
05	Upper cover	Aluminum die casting	28	Rotor	Shaft:Stainless steel
06	Up-Bearing house	Cast iron	31a	Bearing	Ball bearing
10	Seal house	Aluminum die casting	31b	Bearing	Ball bearing
11	Motor body	Aluminum die casting	33	Motor protector	
13	Pump body	NBR	34	Mechanical seal	SiC-SiC/Carbon-SiC
14	Impeller	Ductile iron Optional:High chrome alloy	38	Shaft sleeve	
16	Plate	NBR	40	Clamping plate	Steel
21a	Oil riser	PA66+GF30	47	Cable	

Dimensions and Weights

Model	d	A	B	D	H	W1	N.W	G.W.	Packing dimensions mm
	mm	mm	mm	mm	mm	mm	Kg	Kg	
EBVM21.5	50	180	515	240	515	80	25.5	29	600x270x285
EBVM31.5	80	190	550	240	515	80	26	29.5	600x270x285
EBV21.5	50	180	445	240	445	80	22.5	26	530x270x285
EBV31.5	80	190	480	240	445	80	23	26.5	530x270x285
EBV22.2	50	180	445	240	445	80	25	28.5	530x270x285
EBV32.2	80	190	480	240	445	80	25.5	29	530x270x285
EBV23.7	50	222	583	285	582	90	40.5	45.5	670x310x335
EBV33.7	80	224	580	285	582	90	40.5	45.5	670x310x335
EBV43.7	100	224	605	285	582	90	41.5	46.5	670x310x335
EBV35.5	80	224	580	285	582	90	46.5	51.5	670x310x335
EBV45.5	100	224	605	285	582	90	47.5	52.5	670x310x335



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Performance table

Model	Outlet		Motor Power		Rated current A	Rate capacity		Rated head m	Rated head ft	max capacity		Impeller passage mm
	mm	inch	kW	HP		m ³ /h	GPM			m ³ /h	GPM	
EBVM21.5	50	2	1.5	2.0	12.0	12.0	52.8	15.0	49.2	25.0	110.0	8.5
EBVM31.5	80	3	1.5	2.0	12.0	12.0	52.8	15.0	49.2	29.0	127.6	8.5
EBV21.5	50	2	1.5	2.0	7.6	12.0	52.8	15.0	49.2	25.0	110.0	8.5
EBV31.5	80	3	1.5	2.0	9.3	12.0	52.8	15.0	49.2	29.0	127.6	8.5
EBV22.2	50	2	2.2	3.0	9.3	12.0	52.8	20.0	65.6	28.0	123.2	8.5
EBV32.2	80	3	2.2	3.0	12.3	12.0	52.8	20.0	65.6	32.0	140.8	8.5
EBV23.7	50	2	3.7	5.0	12.3	12.0	52.8	30.0	98.4	35.0	154.0	8.5
EBV33.7	80	3	3.7	5.0	16.5	25.0	110.0	21.0	68.9	46.0	202.4	8.5
EBV43.7	100	4	3.7	5.0	20.1	25.0	110.0	21.0	68.9	46.0	202.4	8.5
EBV35.5	80	3	5.5	7.5	23.1	30.0	132.0	25.0	82.0	54.0	237.6	8.5
EBV45.5	100	4	5.5	7.5	23.1	30.0	132.0	25.0	82.0	54.0	237.6	8.5



EBV(E) SUBMERSIBLE DRAINAGE PUMP



EBVE: variant of EBV with built in water sensor.

MAIN ADVANTAGES

- Protect against reverse phase, ensuring correct impeller rotation
- Protect against open phase or impeller jam
- Automatically stops the pump in event of overload or abnormal voltage and recovers in 5 min
- The height of the electric probe is adjustable to control pump operation
- The pump stops working within 60s after water level reaches below the probe. When the water level rises to reach the electric probe, pump starts operating again
- Rapid assessment of pump operation and malfunction diagnosis

SPECIFICATION

- Capacity: up to 237 GPM
- Head: up to 121 ft
- Power: 1.5kW (2HP) to 5.5 kW (7.5HP)
- Power Supply: three phase 460V $\pm 10\%$, 60Hz
Sing phase 460V $\pm 10\%$, 60Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 26 ft
- Water temperature: up to 104 °F
- Max. water depth: 82 ft

- Civil engineering
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes

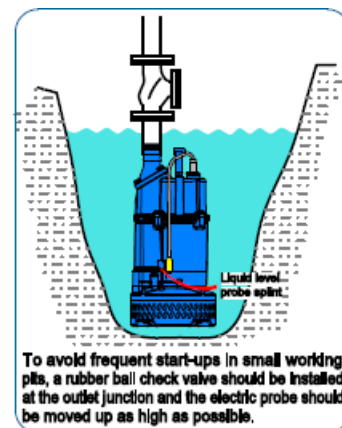
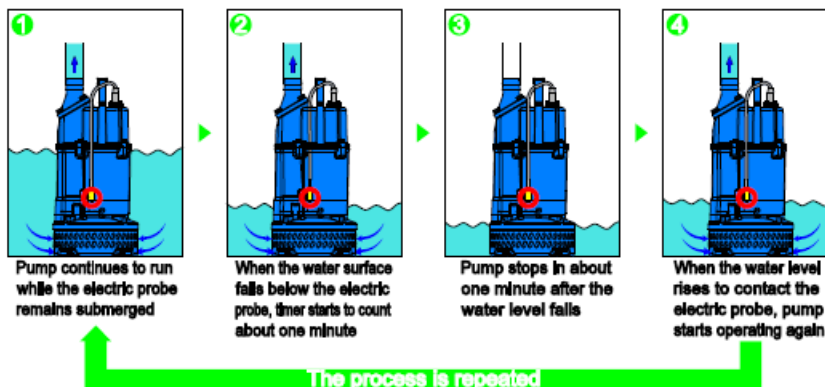
SPECIAL FEATURES ON REQUEST

- Other voltages
- Cable length is optional

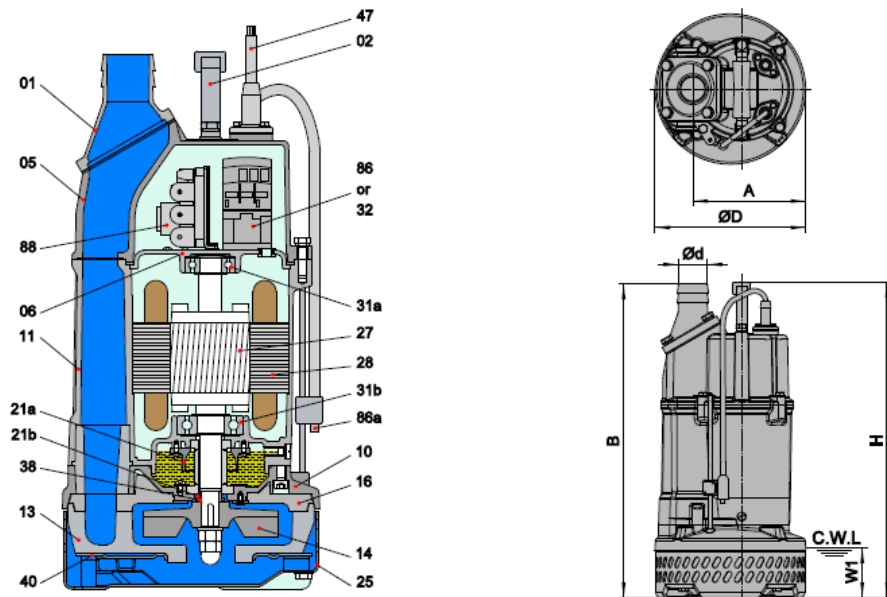


APPLICATION

Automatic control



EBV(E) SUBMERSIBLE DRAINAGE PUMP



C.W.L: continuous running water level

Materials of components

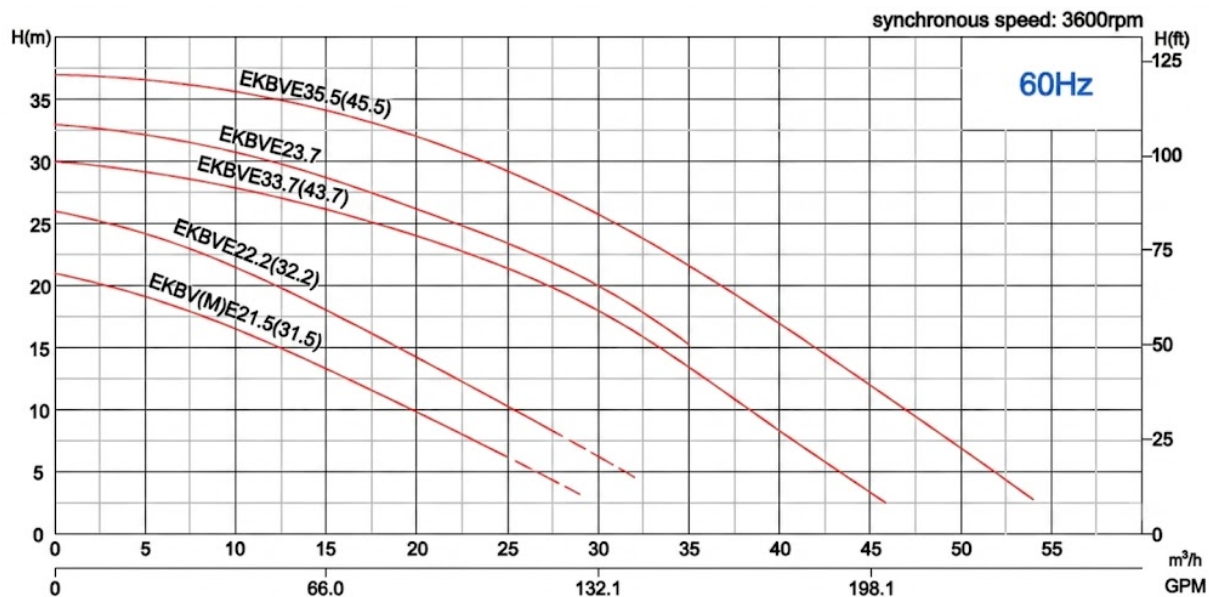
Item No.	Part name	Material	Item No.	Part name	Material
01	Hose coupling	Aluminum die casting	27	Stator	
02	Handle	Rubber & steel	28	Rotor	Shaft:Stainless steel
05	Upper cover	Aluminum die casting	31a	Bearing	Ball bearing
06	Up-Bearing house	Cast iron	31b	Bearing	Ball bearing
10	Seal house	Aluminum die casting	32	Capacitor	Only single phase
11	Motor body	Aluminum die casting	34	Mechanical seal	Sic-Sic/Carbon-Sic
13	Pump body	NBR	38	Shaft sleeve	
14	Impeller	Ductile iron Optional:High chrome alloy	40	Clamping plate	Steel
16	Plate	NBR	47	Cable	
21a	Oil riser	NBR	86	AC Contactor	Only three phase
21b	Sand guard	PA66+GF30	86a	Water level sensor	
			88	Controller block	

Dimensions and Weights

Model	d	A	B	D	H	W1	N.W	G.W.	Packing dimensions
	mm	mm	mm	mm	mm	mm	Kg	Kg	mm
EKBVME21.5	50	178	515	240	515	80	26.5	31	600x270x285
EKBVME31.5	80	190	550	240	515	80	27	32	600x270x285
EKBVE21.5	50	178	515	240	515	80	24.5	29	600x270x285
EKBVE31.5	80	190	550	240	515	80	25	30	600x270x285
EKBVE22.2	50	178	515	240	515	80	27	31	600x270x285
EKBVE32.2	80	190	550	240	515	80	27.5	32.5	600x270x285
EKBVE23.7	50	222	628	285	658	90	42.5	48	745x310x335
EKBVE33.7	80	224	625	285	658	90	42.5	48	745x310x335
EKBVE43.7	100	224	650	285	658	90	43.5	49	745x310x335
EKBVE35.5	80	224	625	285	658	90	48.5	52	745x310x335
EKBVE45.5	100	224	650	285	658	90	49.5	53	745x310x335



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EKBVME21.5	50	2	1.5	2.0	12.0	12	52.8	15	49.2	25	110.0	8.5
EKBVME31.5	80	3	1.5	2.0	12.0	12	52.8	15	49.2	29	127.6	8.5
EKBVE21.5	50	2	1.5	2.0	7.6	12	52.8	15	49.2	25	110.0	8.5
EKBVE31.5	80	3	1.5	2.0	9.3	12	52.8	15	49.2	29	127.6	8.5
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EKBVE32.2	80	3	2.2	3.0	12.3	12	52.8	20	65.6	32	140.8	8.5
EKBVE23.7	50	2	3.7	5.0	12.3	12	52.8	30	98.4	35	154.0	8.5
EKBVE33.7	80	3	3.7	5.0	16.5	25	110	21	68.88	46	202.4	8.5
EKBVE43.7	100	4	3.7	5.0	20.1	25	110	21	68.88	46	202.4	8.5
EKBVE35.5	80	3	5.5	7.5	23.1	30	132	25	82	54	237.6	8.5
EKBVE45.5	100	4	5.5	7.5	23.1	30	132	25	82	54	237.6	8.5

