

## AV series vortex impeller pump



## APPLICATION

AV series vortex impeller pumps are suitable for municipal & industrial sewage water, its feature is to have the strong capacity of anti block and intertwine.

Product range of use

Sewage water with fibrous mater

Municipal sewage water

Industrial sewage water

Domestic sewage water

## MODEL DESCRIPTION

AV XX - XX

| | | \_\_\_\_\_ Motor pole

| | \_\_\_\_\_ Motor power X 10

| \_\_\_\_\_ Vortex impeller

## TECHNICAL DECIPTION

Motor: the unique insulation design ensures the motor can still run normally if little water is in the chamber of motor. The

optimal design of motor guarantees that the pump is able to start running when the hydraulic parts is submerged by some mud and sands.

Motor submerged: continuous operation S1

Medium temperature: Up to 40°C

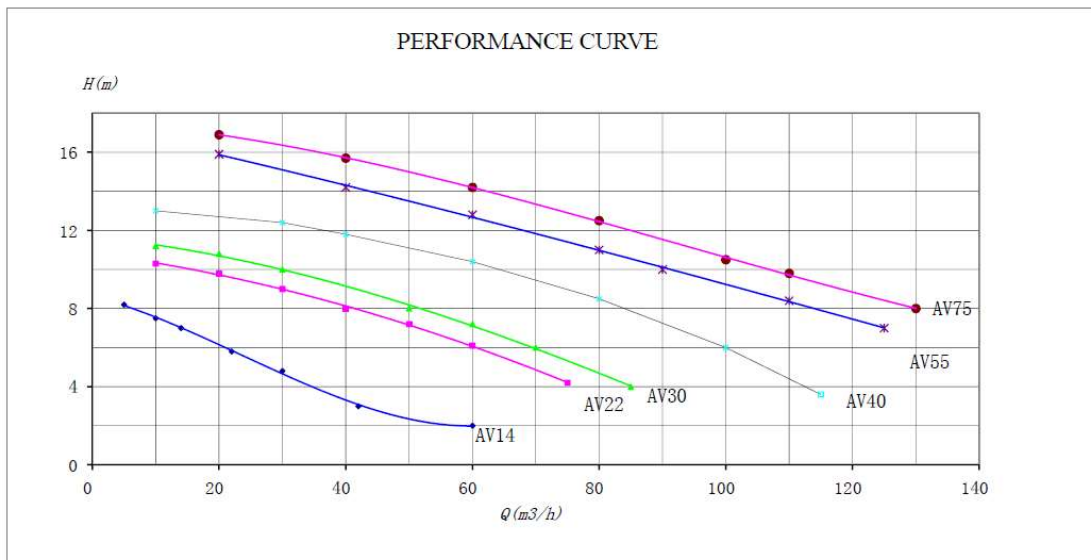
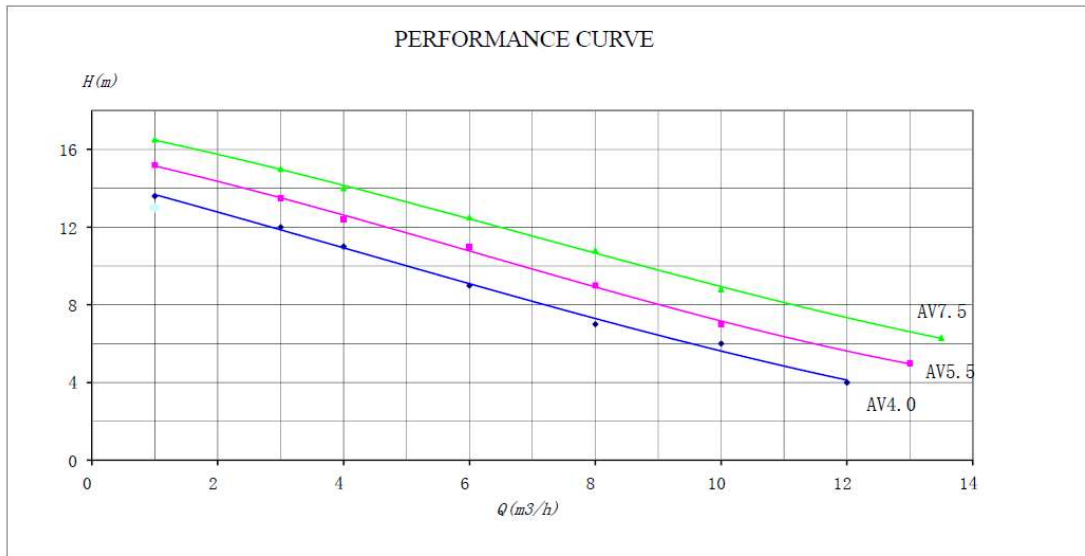
Hydraulic parts: processed with advanced CFD flow field diagnose technology, it has many merits like high efficiency, no block and anti-corrosion etc.

Sealing design: the meet the requirement of deep sub-immersion, we take many improvement measures for pump sealing, unique sealing technique, which enable the product to be safer and more reliable

Protection measures: leakage protection in oil chamber, motor overload protection

Material: pump casing, volute, impeller is GG20, mechanical seal is SiC, cable is rubber

## PERFORMANCE CURVE



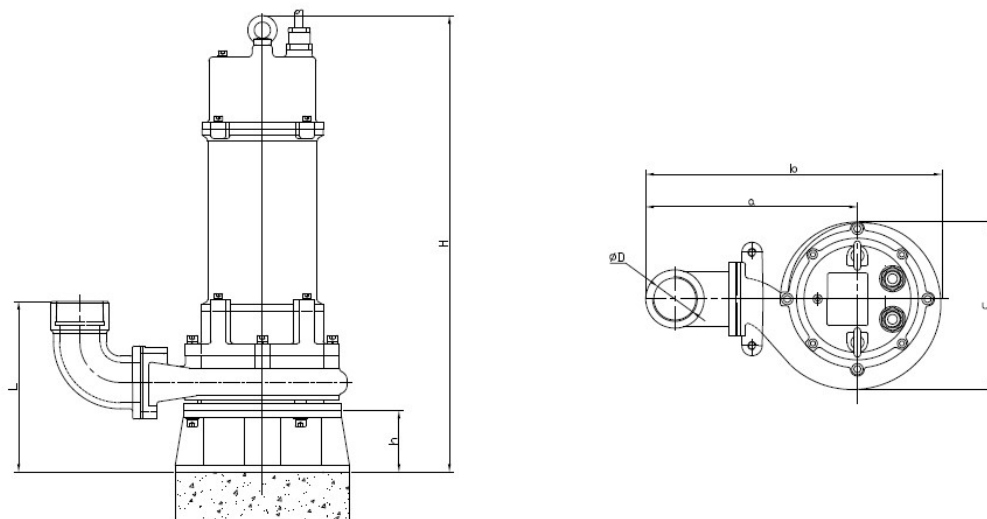
## TECHNICAL DATA

TYPE	2	4	6	8	10	11	12	13	15	16	16.5	H(m)
AV4.0-2		12	9.5	7.2	5	4	3	1.5				flow(m3/h)
AV5.5-2			11.5	9	6.9	6	4.7	3.5	1			
AV7.5-2			13.6	11.2	8.8	7.8	6.6	5.5	3	1.6		
AV14-4	60	35	21	6								
AV22-4		75	60	41	15							
AV30-4		85	70	52	30	10						
AV40-4		113	100	84	64	50	36	10				
AV55-4				115	90	80	67	56	30	20		
AV75-4				130	108	95	84	75	50	35	20	

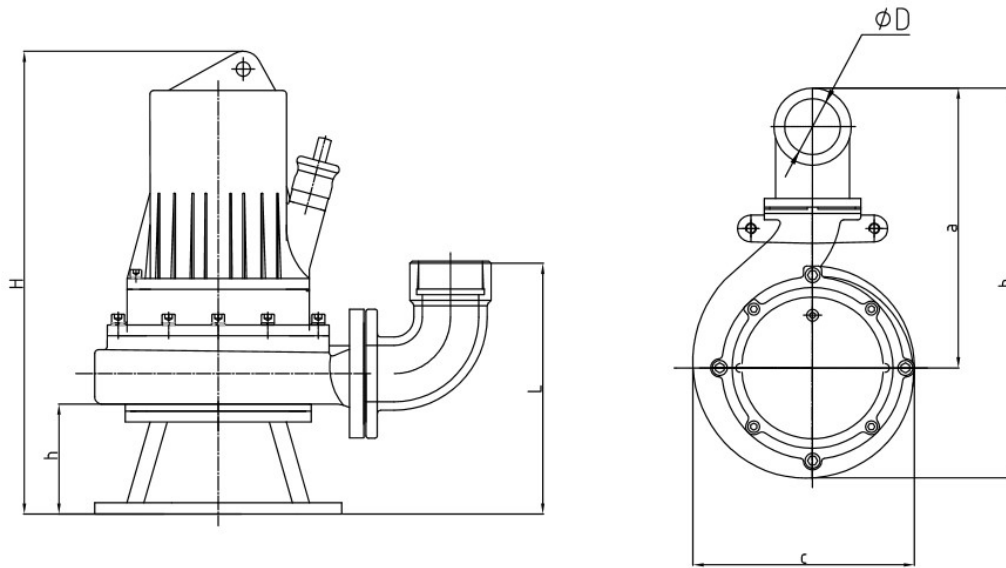
TYPE	Voltage[50HZ] (V)	Power (kw)	Current (A)	Speed (rpm)	Discharge (mm)	Solid size (mm)	Weight (kg)
AV4. 0-2	220	0.4	3.5	2900	50	30	20
AV5. 5-2	220-380	0.55	5/1.5	2900	50	30	29
AV7. 5-2	220-380	0.75	5.8/1.9	2900	50	30	29
AV14-4	380	1.4	4.3	1470	80	65	33
AV22-4	380	2.2	5.8	1470	80	65	45
AV30-4	380	3	6.4	1470	80	65	45
AV40-4	380	4	9	1470	80	65	75
AV55-4	380	5.5	13	1470	100	80	150
AV75-4	380	7.5	17	1470	100	80	150

## INSTALLATION SYSTEM

### Portable installation



TYPE	H	h	L	D	a	b	c
AV4. 0-2	450	60	170	50	160	260	175
AV5. 5-2	450	60	170	50	160	260	175
AV7. 5-2	450	60	170	50	160	260	175



TYPE	H	h	L	D	a	b	c
AV14-4	535	90	295	80	317	437	250
AV22-4	648	154	324	80	339	511	345
AV30-4	648	154	324	80	339	511	345
AV40-4	715	154	449	100	465	620	323
AV55-4	1070	170	466	100	433	576	346
AV75-4	1070	170	466	100	433	576	346

## Wet installation

TYPE	f1/f2	g1/g2	V1/V2	G1/G2	D1	D2	D3	C	E	F
AV14-4	80/160	800/500	450/550	260/225	80	160	195	78	185	299
AV22-4	80/160	800/500	450/550	260/225	80	160	195	78	185	317
AV30-4	80/160	800/500	450/550	260/225	80	160	195	78	185	317
AV40-4	80/160	800/500	450/550	260/225	80	160	195	78	185	317
AV55-4	60/100	1150/900	450/550	285/225	100	180	215	80	230	323
AV75-4	60/100	1150/900	450/550	285/225	100	180	215	80	230	323

TYPE	H	I	J	G	R	N	l	a	b	d
AV14-4	445	120	125	245	205	15	186	120	130	120
AV22-4	500	120	125	245	205	15	204	166	172	163
AV30-4	500	120	125	245	205	15	204	166	172	163
AV40-4	560	120	125	245	205	15	204	170	175	165
AV55-4	900	120	200	385	250	25	208	142	178	168
AV75-4	900	120	200	385	250	25	208	142	178	168

