

APV



APPLICATIONS

- Drainage of sewage from the building basements
- Emptying of septic tanks, cesspits and sewage pump station.
- Drainage of sewage from industrial process factories in the construction field
- Pumping surface and drainage water from garages and sprinkler systems

FEATURES

- All rotors adopt heat treatment method for drive shaft assembling and stator winding impregnated with varnish and heat dried in industrial oven.
- Available impellers are Vortex and non-clog Semi-Open.
- Standard accessories include: VCT cable with an epoxy resin sealed water resistant cable base, Auto Cut motor thermal protector, double mechanical seals and lip seals design.

SPECIFICATION

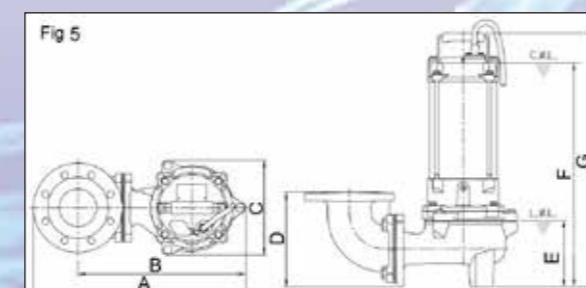
Pumping liquid	Disc diameter(mm)	50 · 80	
	Liquid temp	0~40°C	
	Liquid nature	Waste water · Sewage water and industrial waste water	
	Max.depth	30M	
Pump Structure	Impeller	Semi-open (APVH) Vortex (APV)	
	Mech. seal	Double mechanical seals	
	Bearing	Ball type bearing	
	Upper cover	FC200	
	Impeller	FC200	
	Casing	FC200	
	Casing cover	FC200	
Motor	Mech. seal	CA/CE & SIC/SIC	
	Type	Dry type	
	Insulation	B class	
	Frequency · Pole	50Hz · 2P	
	Protector	Auto-cut (50APV(H)-5.4S: Overheat protector)	
	Material	Frame	SUS304
		Main shaft	0.4 ~ 0.75kW : SUS410 1.5 ~ 3.7kW : SUS403
Cable		VCT	
Optional	Float switch Auto setter		

APV TYPE IMPELLER

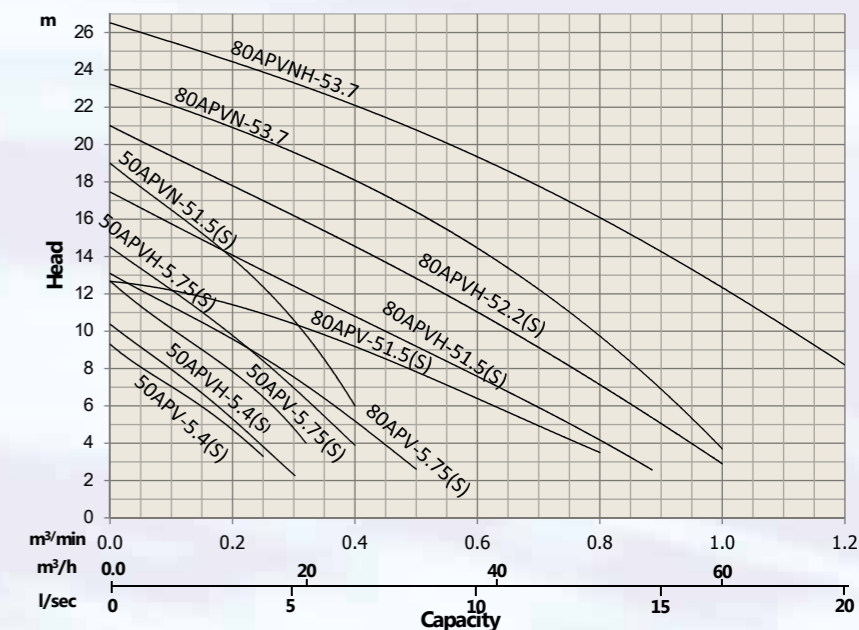
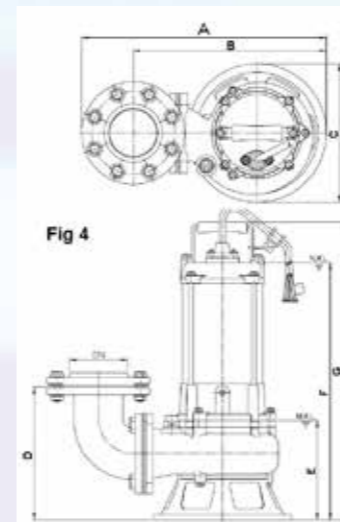
This impeller can generate rapid rotating vortex to handle fluid mixed with long fiber, the majority of abrasive solids do not touch impeller to minimize impeller wearing. The reversed rotation of 3 phase APV type impeller will result in higher than rated current, which may cause property or personal damage. In this case, please rewire the cable connection for proper operation.

APVH TYPE IMPELLER

Semi-open impeller cutting foreign particles, and preventing clog by solid media.



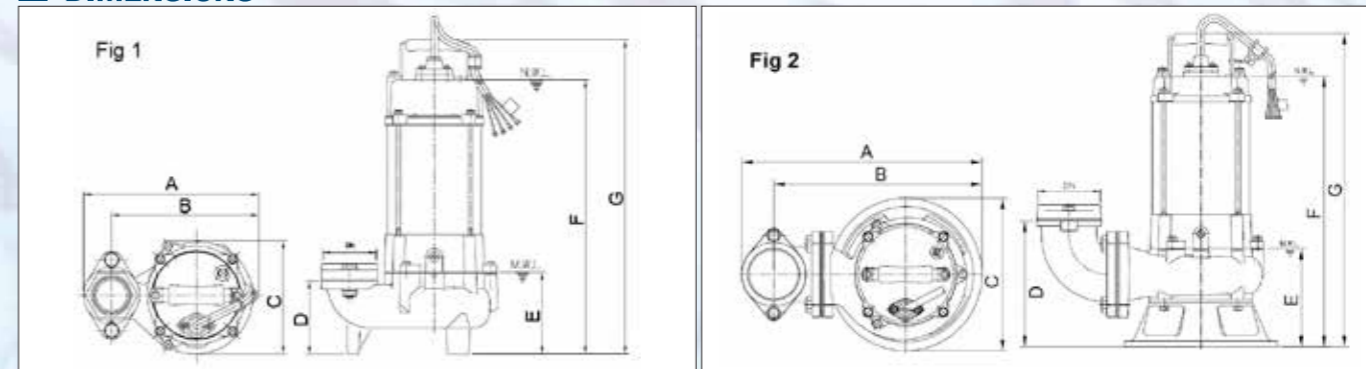
SELECTION CHART



PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg
2	Vortex	50	0.4	1	Capacitor	50APV-5.4S	0.15	6	35	16
				3	Direct	50APV-5.4	0.15	6	35	15
			0.75	1	Capacitor	50APV-5.75S	0.2	8	35	17
				3	Direct	50APV-5.75	0.2	8	35	16
			1.5	1	Capacitor	50APVN-51.5S	0.2	14	35	30
				3	Direct	50APVN-51.5	0.2	14	35	25
		80	0.75	1	Capacitor	80APV-5.75S	0.3	6.5	30	18
				3	Direct	80APV-5.75	0.3	6.5	30	17
			1.5	1	Capacitor	80APV-51.5S	0.4	9	25	38
				3	Direct	80APV-51.5	0.4	9	25	33
			2.2	1	Capacitor	80APV-52.2S	0.5	11.5	25	40
				3	Direct	80APV-52.2	0.5	11.5	25	34
	3.7	3	Direct	80APV-53.7	0.5	16.5	50	33		
	Semi-open	50	0.4	1	Capacitor	50APVH-5.4S	0.2	5.5	22	16
				3	Direct	50APVH-5.4	0.2	5.5	22	15
			0.75	1	Capacitor	50APVH-5.75S	0.2	9	26	18
				3	Direct	50APVH-5.75	0.2	9	26	17
			1.5	1	Capacitor	80APVH-51.5S	0.5	9	32	38
				3	Direct	80APVH-51.5	0.5	9	32	34
		2.2	1	Capacitor	80APVH-52.2S	0.6	10.5	35	40	
			3	Direct	80APVH-52.2	0.6	10.5	35	34	
		3.7	3	Direct	80APVNH-53.7	0.6	19	35	35	

DIMENSIONS



MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50APV-5.4(S)	1	PF	237	199	154	99	111	371	425	5000
50APV-5.75(S)	1	PF	237	199	154	99	111	371	425	5000
50APVN-51.5S	1	PF	288	250	202	88	100	483	546	8000
50APVN-51.5	1	PF	288	250	202	88	100	415	477	8000
80APV-5.75(S)	3	PF	278	224	173	135	130	402	456	5000
80APV-51.5S	2	PF	411	357	258	218	166	535	598	8000
80APV-51.5-52.2	2	PF	411	357	258	218	166	457	520	8000
80APV-52.2S	2	PF	411	357	258	218	166	535	598	8000
80APVN-53.7	5	PT	453	358	202	201	140	476	539	8000
50APVH-5.4(S)	2	PF	276	238	235	143	145	404	459	5000
50APVH-5.75(S)	2	PF	276	238	235	143	145	404	459	5000
80APVH-51.5S	2	PF	411	357	258	218	166	535	598	8000
80APVH-51.5-52.2	2	PF	411	357	258	218	166	457	520	8000
80APVH-52.2S	2	PF	411	357	258	218	166	535	598	8000
80APVNH-53.7	4	PT	468	373	260	243	163	478	541	8000

