

ShinMaywa

Submersible Pumps

(Vortex Type)

CV/CVH·CVS-MT/CVS·CVC·CVM Series



Non-Clogging Vortex Type

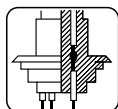
Even sewage containing foreign matter hardly "clog" or cause "entanglement" in the pump

There are **MANY ADVANTAGES** with ShinMaywa Submersible Pump.

●Features and Construction

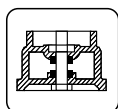
Cable entry with core wire seal

The core wire seal at the cable entry shuts the water out from penetrating into the motor chamber through the core wires even if the cable tip is immersed in water or the sheath is damaged.



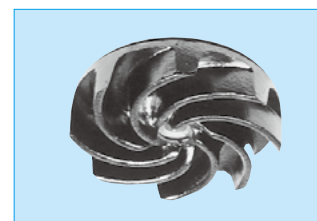
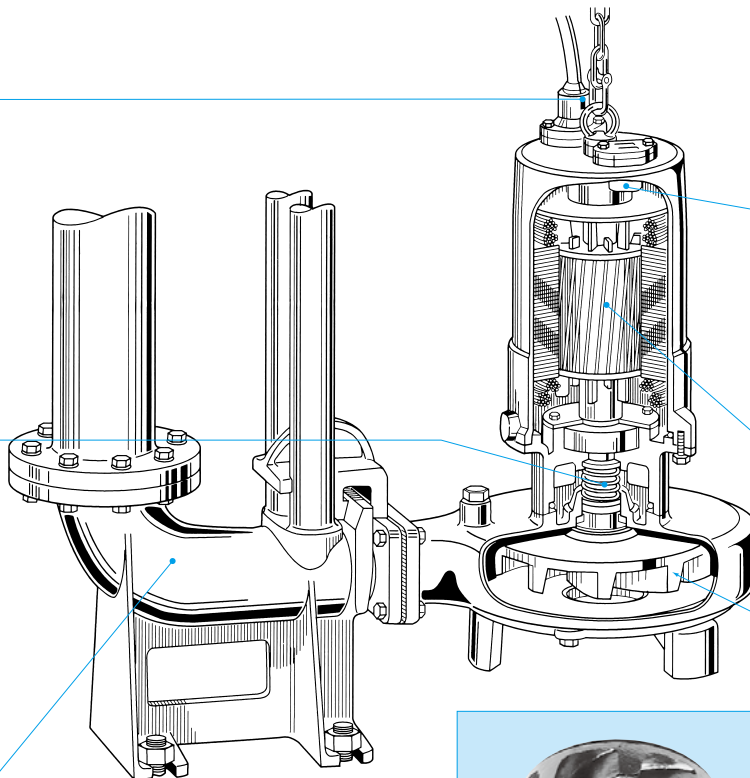
Shaft seal

A highly wear resistant silicon carbide double mechanical seal positively prevents the water from penetrating into the motor chamber. Besides, combined use of an oil seal further extends the service life of the mechanical seal.



Discharge connection

When the guide rail installation type submersible pump is lowered along the guide pipe, the pump is automatically connected to the discharge pipe with the discharge connection.



Applications

For sewage and wastewater containing a lot of fibrous solids

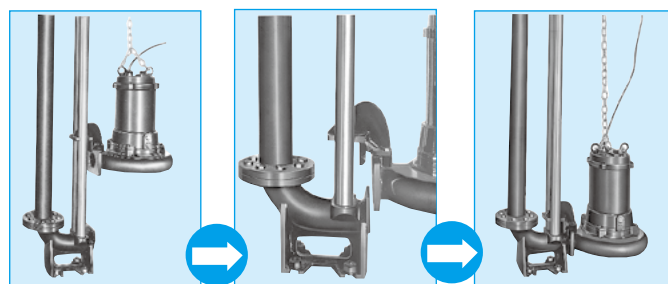
- For pump stations in the sewerage/wastewater collection system.
- For transferring/discharging sludge and scum at industrial wastewater treatment plants.
- For transferring/discharging wastewater and sludge at food processing factories or livestock production facilities.
- For use in the raw water tank and/or flow equalization tank at night soil treatment plants.
- For use in the raw water tank and/or flow equalization tank at onsite wastewater treatment systems.

Features of vortex type

As illustrated, vortex impeller provides a broad area for passage, thereby eliminating the possible clogging, winding and/or entanglement of solids, fibrous solids, etc.

Sewage or sludge does not directly pass through the interior of an impeller. As a result, the vortex impeller scarcely abrades while showing an excellent level of durability.

Guide rail installation type

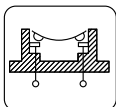


VORTEX TYPE



Motor protector

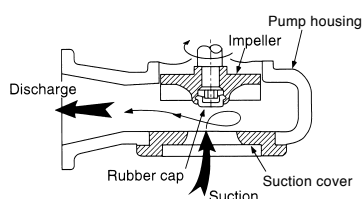
A built-in automatic-reset type motor protector (thermal protector or thermal switches) positively protects the motor from burnout due to overload, locked up impeller and open phase.



Motor

Impeller

A vortex impeller most suitable for each application is employed. Also, dynamic and static balance of impeller are adjusted.



CV/ CVH

2-Pole
(0.15 to 1.5kW)
4-Pole
(5.5 to 22kW)

Discharge size(mm)	40	50	65	80	100	150
Rated output(kW) 0.15						
0.25						
0.4		•	•			
0.75		•	•	•		
1.5		•	•	•		
5.5						•
7.5						•
11					•	•
15					•	•
22					•	•

CV/CVH

CVS-MT/ CVS

2-Pole

Discharge size(mm)	40	50	65	80	100	150
Rated output(kW) 0.15						
0.25	•	•				
0.4		•				
0.75		•				
1.5			•	•		
2.2			•	•		
3.7			•	•	•	
5.5				•	•	
7.5				•	•	
11				•	•	
15						
22						

CVS-MT/CVS

CVC

4-Pole

Discharge size(mm)	40	50	65	80	100	150
Rated output(kW) 0.15						
0.25		•				
0.4		•				
0.75		•				
1.5			•	•		
2.2			•	•	•	
3.7			•	•	•	
5.5				•	•	
7.5				•	•	
11						
15						
22						

CVC

CVM

4-Pole

Solid passage dia.:
100% of discharge size
(except for CVM150)

Discharge size(mm)	40	50	65	80	100	150
Rated output(kW) 0.15						
0.25						
0.4		•				
0.75		•				
1.5			•	•	•	
2.2			•	•	•	
3.7			•	•	•	
5.5				•	•	
7.5				•	•	
11						•
15						
22						

CVM

CV/CVH Series

<Discharge size> 50 to 150mm
<Rated output> 0.4 to 1.5kW/5.5 to 22kW

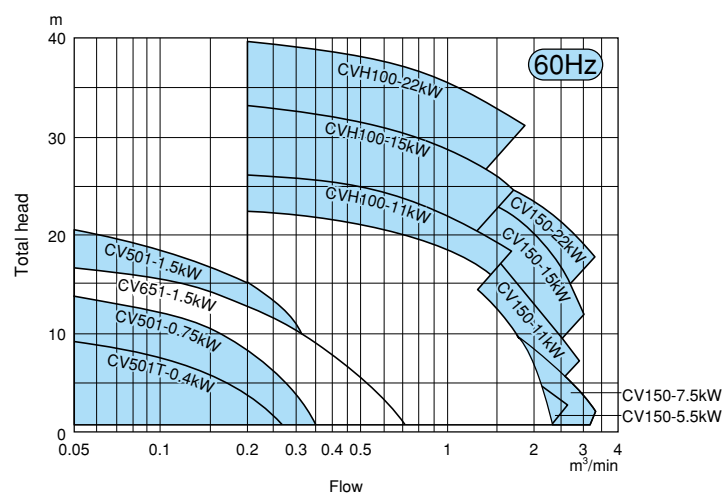
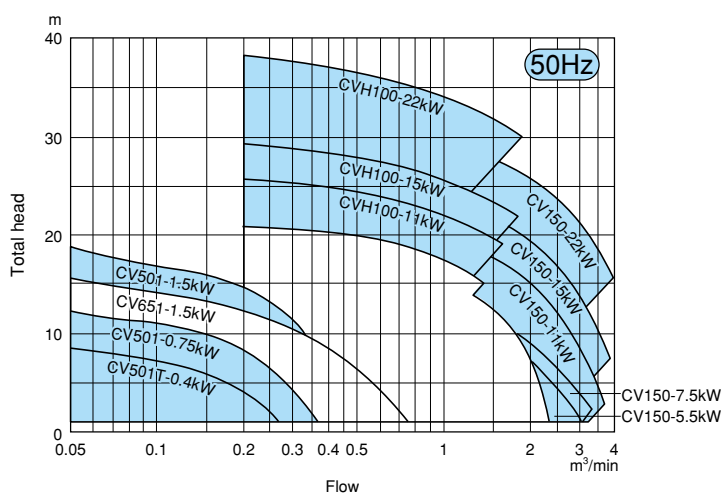
2-Pole
(0.15 to 1.5kW)
4-Pole
(5.5 to 22kW)



Standard Specifications

Discharge	Pump model	Installation kit No.		Rated output	No. of poles	Flow—Total head		Solid passage dia. (Soft solid)		Pump weight kg	
mm		Guide rail installation	Free standing			kW	50Hz m³/min — m	60Hz m³/min — m	mm		
									50Hz		60Hz
50	CV501T	P50	F50	0.4	2	0.15 — 5.9	0.15 — 5.9	30	30	17	
	CV501			0.75		0.2 — 8.5	0.2 — 8.5	29	32	18	
				1.5		0.2 — 14.7	0.2 — 15.2	32	31	26	
65	CV501T	P65B	F65B	0.4	2	0.15 — 5.9	0.15 — 5.9	30	30	17	
	CV501			0.75		0.2 — 8.5	0.2 — 8.5	29	32	18	
				1.5		0.2 — 14.7	0.2 — 15.2	32	31	26	
		CV651	P65	F65	1.5	2	0.4 — 8.7	0.4 — 8.2	42	42	29
80	CV651	P80	F80	1.5	2	0.4 — 8.7	0.4 — 8.2	46	46	29	
100	CVH100	P100C	F100B	11	4	0.8 — 23	0.86 — 23	36	36	192	
				15		0.94 — 26	0.9 — 29			208	
				22		1.05 — 34	0.92 — 36			262	
150	CV150	P150	F150	5.5	4	1.6 — 8.9	1.3 — 8.6	58	58	120	
				7.5		1.9 — 9.4	1.6 — 10.5			132	
				11		1.9 — 16	1.67 — 16	48	48	185	
				15		2.15 — 19	2.05 — 20			197	
				22		2.75 — 23	2.15 — 23			256	

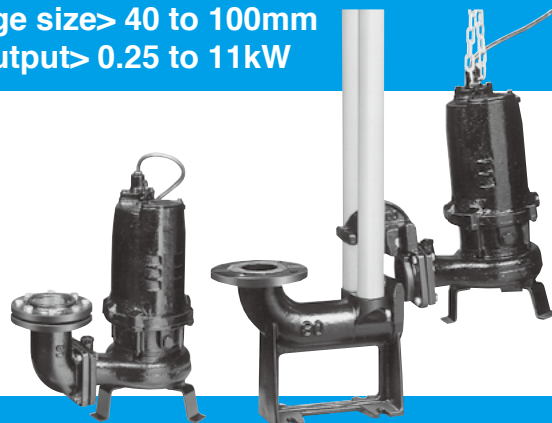
Performance Curves



CVS-MT/CVS Series

<Discharge size> 40 to 100mm
<Rated output> 0.25 to 11kW

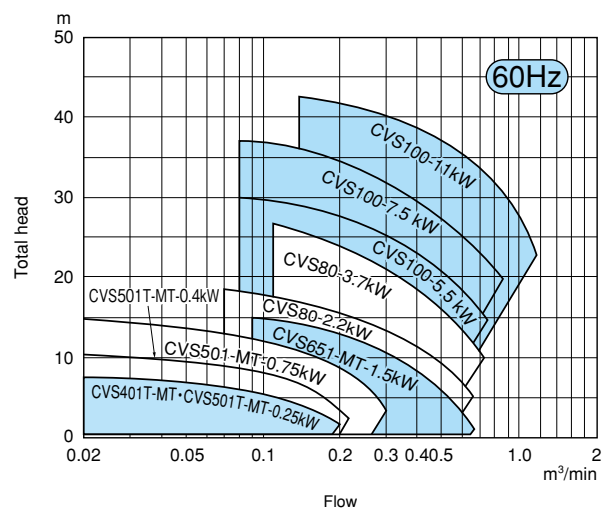
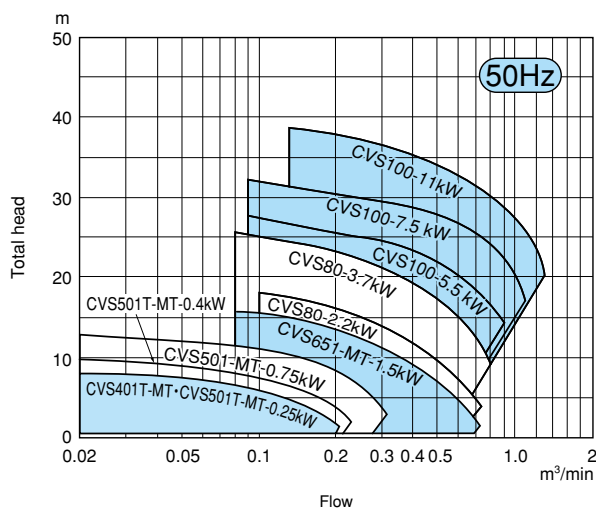
2-Pole



Standard Specifications

Discharge	Pump model	Installation kit No.		Rated output	Flow—Total head		Solid passage dia. (Soft solid)		Pump weight kg	
mm		Guide rail installation	Free standing		kW	50Hz m³/min — m	60Hz m³/min — m	mm		
								50Hz		60Hz
40	CVS401T-MT	P40	F40	0.25	0.13 — 4.4	0.1 — 4.6	27	27	17	
50	CVS501T-MT	P50	F50	0.25	0.13 — 4.4	0.1 — 4.6	27	27	17	
				0.4	0.17 — 5.0	0.12 — 6.8	29	29	17	
	CVS501-MT			0.75	0.16 — 9.2	0.2 — 8.0	27	27	18	
65	CVS651-MT	P65	F65	1.5	0.42 — 9.0	0.38 — 9.0	16	16	29	
	CVS80	P65	F65	2.2	0.44 — 11.0	0.42 — 11.0	17	17	46	
				3.7	0.51 — 17.0	0.47 — 17.0			55	
80	CVS651-MT	P80	F80	1.5	0.42 — 9.0	0.38 — 9.0	16	16	29	
	CVS80	P80	F80	2.2	0.44 — 11.0	0.42 — 11.0	17	17	46	
				3.7	0.51 — 17.0	0.47 — 17.0			55	
				CVS100	P80	F80			5.5	0.45 — 22.7
	7.5	0.55 — 27.2	0.45 — 28.5				92			
	11	0.60 — 33.0	0.60 — 35.6				120			
100	CVS80	P100	F100	3.7	0.51 — 17.0	0.47 — 17.0	17	17	55	
	CVS100	P100	F100	5.5	0.45 — 22.7	0.40 — 23.6	22	22	82	
				7.5	0.55 — 27.2	0.45 — 28.5			92	
				11	0.60 — 33.0	0.60 — 35.6			120	

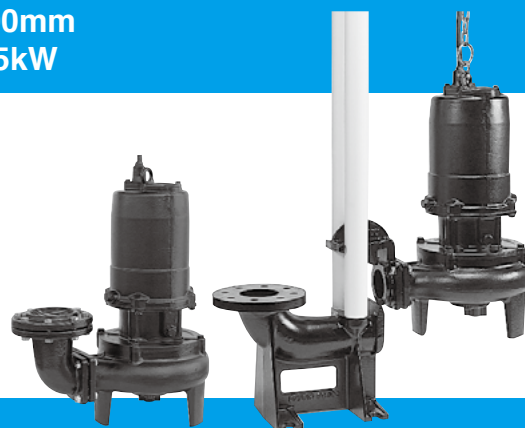
Performance Curves



CVC Series

<Discharge size> 50 to 100mm
<Rated output> 0.25 to 7.5kW

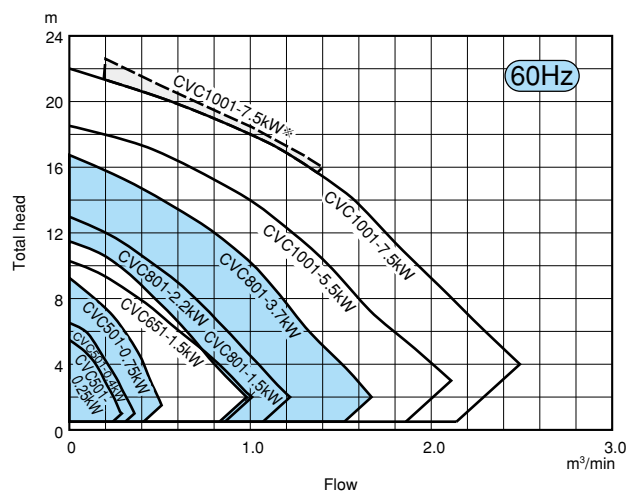
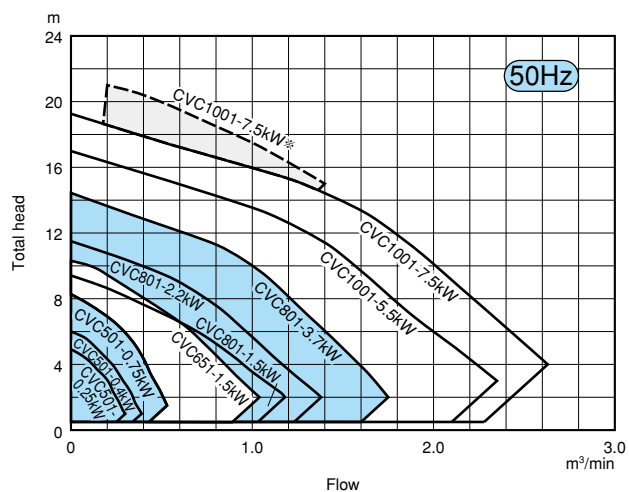
4-Pole



Standard Specifications

Discharge mm	Pump model	Installation kit No.		Rated output kW	Flow—Total head		Solid passage dia. (Soft solid) mm		Pump weight kg
		Guide rail installation	Free standing		50Hz m ³ /min — m	60Hz m ³ /min — m	50Hz	60Hz	
50	CVC501	P50	F50	0.25	0.19 — 3.1	0.19 — 3.1	35	35	22
				0.4	0.18 — 4.4	0.18 — 4.6			25
				0.75	0.23 — 6.5	0.23 — 7.1			28
65	CVC501	P65B	F65B	0.4	0.18 — 4.4	0.18 — 4.6	35	35	25
				0.75	0.23 — 6.5	0.23 — 7.1			28
	CVC651	P65	F65	1.5	0.45 — 7.6	0.45 — 8.2	46	46	45
				1.5	0.52 — 7.0	0.52 — 6.7			45
	CVC801	P65	F65	2.2	0.6 — 8.9	0.6 — 8.9	56	56	57
				3.7	0.8 — 11.3	0.8 — 11.9			69
80	CVC651	P80	F80	1.5	0.45 — 7.6	0.45 — 8.2	46	46	45
				1.5	0.52 — 7.0	0.52 — 6.7			45
	CVC801	P80B	F80	2.2	0.6 — 8.9	0.6 — 8.9	56	56	57
				3.7	0.8 — 11.3	0.8 — 11.9			69
	CVC1001	P80B	F80	5.5	1.2 — 12.2	1.2 — 12.2	70	70	95
				7.5	1.3 — 14.8	1.3 — 16.0			105
100	CVC801	P100B	F100	2.2	0.6 — 8.9	0.6 — 8.9	56	56	57
				3.7	0.8 — 11.3	0.8 — 11.9			69
	CVC1001	P100B	F100	5.5	1.2 — 12.2	1.2 — 12.2	70	70	95
				7.5	1.3 — 14.8	1.3 — 16.0			105

Performance Curves



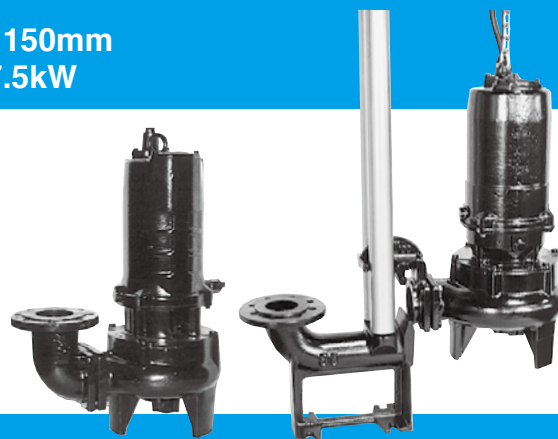
※ Upon consultation

CVM Series

<Discharge size> 50 to 150mm
<Rated output> 0.4 to 7.5kW

4-Pole

Solid passage dia. :
100% of discharge size
(except for CVM150)



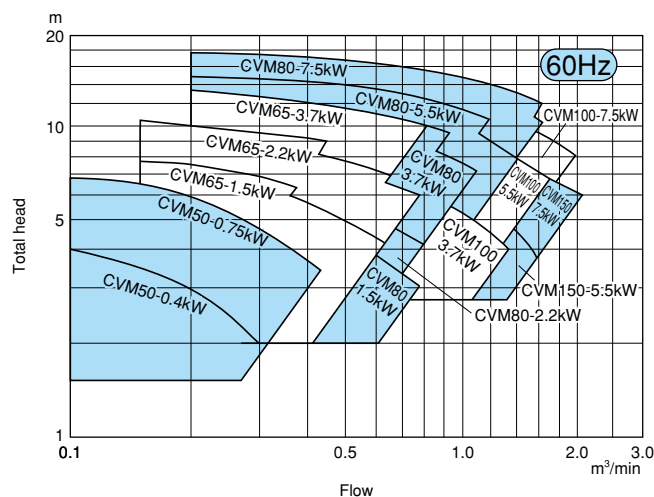
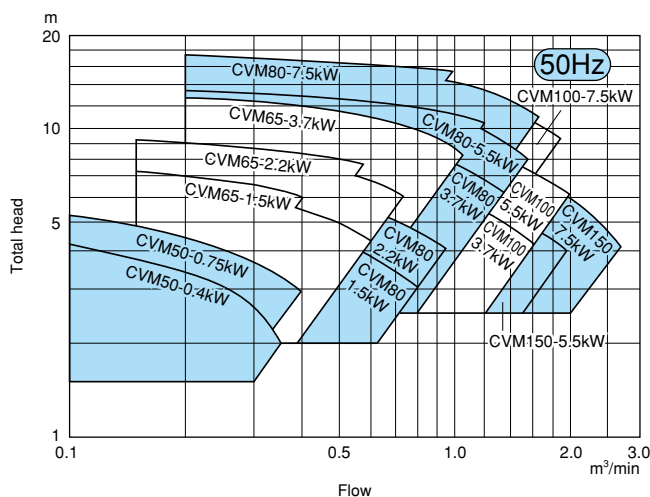
Standard Specifications

Discharge mm	Pump model	Installation kit No.		Rated output kW	Flow—Total head		Solid passage dia. (Soft solid) mm		Pump weight kg
		Guide rail installation	Free standing		50Hz m³/min — m	60Hz m³/min — m	50Hz	60Hz	
50	CVM50	P50	F50	0.4	0.18 — 3.55	0.17 — 3.3	50	50	25
				0.75	0.23 — 4.1	0.22 — 5.7			26
65 (80)	CVM65	P65 (P80)	F65 (F80)	1.5	(1) 0.21 — 6.9 (3) 0.37 — 5.8	(2) 0.20 — 7.5 (4) 0.33 — 6.1	65	65	43
				2.2	(1) 0.28 — 8.8 (3) 0.38 — 7.9	(2) 0.20 — 10.0 (4) 0.34 — 8.4			55
				3.7	(1) 0.52 — 11.4	(2) 0.64 — 10.6			69
80 (100)	CVM80	P80B (P100B)	F80 (F100)	1.5	(5) 0.2 — 6.5 (7) 0.42 — 4.7	(6) 0.16 — 6.9 (8) 0.40 — 4.9	80	80	46
				2.2	(5) 0.26 — 7.2 (7) 0.45 — 5.9	(6) 0.25 — 7.5 (8) 0.38 — 5.8			58
				3.7	(1) 0.42 — 11.0 (3) 0.66 — 9.2	(2) 0.46 — 11.2 (4) 0.57 — 10.0			72
				5.5	(1) 0.56 — 12.4 (3) 0.84 — 11.0	(2) 0.55 — 13.0 (4) 0.86 — 10.8			93
				7.5	(1) 0.47 — 16.4 (3) 0.94 — 14.0	(2) 0.80 — 16.0 (4) 1.00 — 14.4			106
100	CVM100	P100C	F100B	3.7	(5) 0.40 — 9.3 (7) 0.78 — 6.7	(6) 0.30 — 9.5 (8) 0.72 — 6.2	100	100	73
				5.5	(5) 0.62 — 10.8 (7) 1.02 — 8.9	(6) 0.44 — 12.0 (8) 0.86 — 9.4			97
				7.5	(5) 0.52 — 14.6 (7) 0.96 — 12.0	(6) 0.80 — 13.2 (8) 1.05 — 11.8			111
150	CVM150	P150	F150	5.5	(7) 0.51 — 7.6 (9) 0.80 — 6.5	(8) 0.55 — 7.3 (10) 0.64 — 6.2	125	125	107
				7.5	(9) 0.92 — 9.4 (11) 1.32 — 7.6	(8) 0.78 — 9.7 (10) 1.04 — 8.1			123

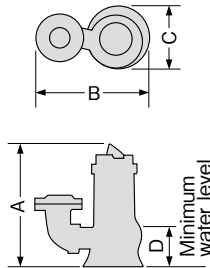
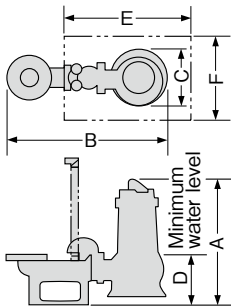
(80),(100) : Also available with solid passage dia. of 65 and 80mm respectively.

[] : Impeller No.

Performance Curves



Dimensions



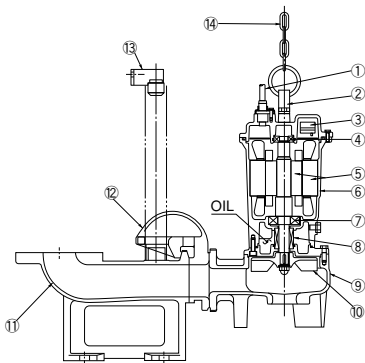
Guide rail installation

Free standing

	Pump model	Installation kit No.	Rated output kW	A	B	C	D	E	F	Pump model	Installation kit No.	Rated output kW	A	B	C	D										
CV CVH	CV501(T)	P50	0.4 · 0.75	461	427	156	180	550	350	CV501(T)	F50	0.4 · 0.75	415	229	156	135										
		P65B			500						F65B			324												
	CV501	P50	1.5	501	448	176	195	550	350	CV501	F50	1.5	455	250	176	150										
		P65B			521						F65B			345												
	CV651	P65	1.5	539	627	182	235	550	350	CV651	F65	1.5	474	382	182	170										
		P80			579		703				275			F80			397									
	CVH100	P100C	11	861	1,110	486	335	900	700	CVH100	F100B	11	782	848	486	255										
			15									15														
			22									22														
	CV150	P150	5.5	779	1,094	400	325	900	700	CV150	F150	5.5	713	836	400	260										
			7.5									7.5														
			11									11														
			15									15														
			22									22														
CVS-MT CVS	CVS401T-MT	P40	0.25	457	427	162	175	550	350	CVS401T-MT	F40	0.25	399	229	162	115										
	CVS501T-MT	P50	0.25							CVS501T-MT	F50	0.25														
	CVS501T-MT		0.4							CVS501T-MT		0.4														
	CVS501T-MT		0.75							CVS501T-MT		0.75														
	CVS651-MT	P65	1.5	516	663	192	200	550	350	CVS651-MT	F65	1.5	440	418	192	125										
		P80		556	739		240				F80		433													
	CVS80	P65	2.2	581	697	266	200	550	350	CVS80	F65	2.2	538	452	266	160										
			3.7	622			240					3.7	579													
		P80	2.2	621	773	240	240				F80	2.2	538	467												
			3.7	662								3.7	579													
	CVS100	P80	5.5	698	803	248	255	700	600	CVS100	F80	5.5	616	509	248	175										
			7.5	733								7.5	651													
			11	814								11	733													
		P100	5.5	698	816	248	240				F100	5.5	616	526	248	175										
			7.5	733								7.5	651													
11	814	849	284	11	733	546	284	175																		
CVC	CVC501	P50	0.25	437	490	204	180	550	350	CVC501	F50	0.25	391	292	204	135										
			0.4									497					228	195	550	350	0.4	299				
		0.75	570																		228		195	550	350	0.75
		0.4																								0.4
	P65B	0.4	570	228	195	550	350	CVC651	F65	1.5	526	425	247	175												
		0.75							F80		440															
	CVC651	P65	1.5	587	670	247	235	550	350	CVC801	F65	1.5	557	448	253	210										
			2.2	610	245		275					2.2	574	490												
			3.7	672	250		600					500	3.7	636			297									
		P80B	1.5	632	769	253	285	550	350		F80	1.5	557	463	253	210										
			2.2	650	812		297	600	500			2.2	574	505												
			3.7	712	825		297	600	500			3.7	636													
	CVC1001	P100B	2.2	650	825	297	290	600	500	CVC1001	F100	2.2	574	523	297	215										
			3.7	712								3.7	636													
		P80B	5.5	758	850	334	305	700	600		F80	5.5	702	544												
			7.5	793								7.5	737													
P100B	5.5	758	863	334	305	700	600		F100	5.5	702	561														
	7.5	793								7.5	737															
CVM	CVM50	P50	0.4 · 0.75	506	475	188	195	550	350	CVM50	F50	0.4 · 0.75	486	277	188	170										
	CVM65	P65	1.5	601	637	219	245	550	350	CVM65	F65	1.5	572	392	219	230										
			2.2	625	687		238					2.2	595	442												
		3.7	687	696	257	260	3.7					657	451	257												
		P80	1.5	641	713	219	285	550	350		CVM80	F80	1.5	572	407	219	230									
	2.2		665	763	238	2.2	595						457	238												
	3.7	727	772	257	300	3.7	657						466	257												
	CVM80	P80B	1.5	659	758	230	300	550	350	CVM80		F80	1.5	615	452	230	260									
			2.2	673	769	249	2.2						630	462	249											
			3.7	735	777	267	310						600	500	3.7	692	471	267								
			5.5	765	830	292	310	700	600		5.5		722	523	292											
		7.5	800	841	313	7.5					757	534	313													
		P100B	1.5	659	771	230					300	600	500	CVM100	F100	1.5	573	470	230	260						
			2.2	673	782	249					2.2					630	480	249								
			3.7	735	790	267	310	700	600		3.7					692	489	267								
	5.5		765	843	292	310	700	600	5.5	722	541					292										
	7.5	800	854	313	7.5				757	552	313															
	CVM100	P100C	3.7	803	817				280	375	600	500	CVM100		F100	3.7	740	515	280	315						
			5.5	841	851				310	385	700	600				5.5	778	549	310	325						
			7.5	869	873	332	380	7.5	806	571	332	315														
CVM150	P150	5.5	854	907	304	400	700	600	CVM150	F150	5.5	828	649	304	375											
		7.5	881	921	331	390					7.5	856	663	331	365											

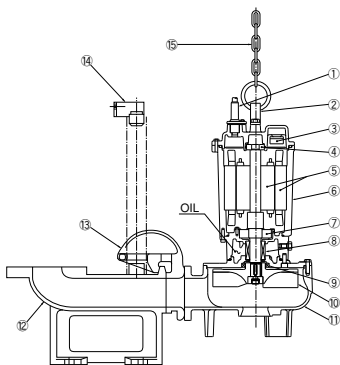
Sectional View

CV651



No.	Part Name	Material
1	Cable	PVC insulated PVC sheathed cable
2	Handle	304 stainless steel
3	Thermal protector	—
4	Ball bearing(upper)	—
5	Motor	Shaft:420J2 stainless steel
6	Stator housing	Gray iron casting (FC200)
7	Ball bearing(lower)	—
8	Mechanical seal	—
9	Pump housing	Gray iron casting (FC200)
10	Impeller	Gray iron casting (FC200)
11	Discharge connection	Gray iron casting (FC200)
12	Sliding bracket	Gray iron casting (FC200)
13	Guide holder	304 stainless steel casting
14	Lifting chain	Structural steel

CVC651



No.	Part Name	Material
1	Cable	PVC insulated PVC sheathed cable
2	Handle	304 stainless steel
3	Thermal protector	—
4	Ball bearing(upper)	—
5	Motor	Shaft:420J2 stainless steel
6	Stator housing	Gray iron casting (FC200)
7	Ball bearing(lower)	—
8	Mechanical seal	—
9	Oil seal	Acrylonitrile butadiene rubber (NBR)
10	Impeller	Gray iron casting (FC200)
11	Pump housing	Gray iron casting (FC200)
12	Discharge connection	Gray iron casting (FC200)
13	Sliding bracket	Gray iron casting (FC200)
14	Guide holder	304 stainless steel casting
15	Lifting chain	Structural steel

Guide rail installation kit

- Discharge connection
- Sliding bracket
- Guide holder(with bolts and nuts)
- Lifting chain (6m)

Discharge mm	Installation kit No.	Pump model				Weight (kg)	
		CV/CVH	CVS	CVC	CVM	Kit	Connection
40	P40	—	CVS401T-MT	—	—	11	4.5
50	P50	CV501(T)	CVS501(T)-MT	CVC501	CVM50	11	4.5
65	P65B	CV501(T)	—	CVC501	—	20	14.5
	P65	CV651	CVS651-MT CVS80	CVC651 CVC801	CVM65	24	15
80	P80	CV651	CVS651-MT CVS80 CVS100	CVC651	CVM65	31.5	20.5
	P80B	—	—	CVC801 CVC1001	CVM80	31.5	18
100	P100	—	CVS80 CVS100	—	—	40.5	27
	P100B	—	—	CVC801 CVC1001	CVM80	40.5	27
	P100C	CVH100	—	—	CVM100	55	37
150	P150	CV150	—	—	CVM150	60	42

Free standing kit

- Discharge flange
- Companion flange (with bolts, nuts and gasket)

Discharge mm	Installation kit No.	Pump model				Kit weight (kg)
		CV/CVH	CVS	CVC	CVM	
40	F40	—	CVS401T-MT	—	—	★
50	F50	CV501(T)	CVS501(T)-MT	CVC501	CVM50	★
65	F65B	CV501(T)	—	CVC501	—	5.5
	F65	CV651	CVS651-MT CVS80	CVC651 CVC801	CVM65	7
80	F80	CV651	CVS651-MT CVS80 CVS100	CVC651 CVC801 CVC1001	CVM65 CVM80	9.5
100	F100	—	CVS80 CVS100	CVC801 CVC1001	CVM80	11
	F100B	CVH100	—	—	CVM100	12
150	F150	CV150	—	—	CVM150	30

★ : Built into the pump

Standard Specifications

Handling liquid	Kind of liquid		Wastewater and sewage or Water including sludge
Material	Cable	0.15 to 7.5kW	PVC insulated PVC sheathed cable
		11 to 22kW	EPR insulated PCP sheathed cable
	Motor shaft		420J2 stainless steel
	Pump housing	CV150, CVS-MT	Gray iron casting (FC250)
		Other models	Gray iron casting (FC200)
	Impeller	CVM65-80-100-150	Spheroidal graphite iron casting (FCD500)
		CVS-MT	Gray iron casting (FC250)
		Other models	Gray iron casting (FC200)
Electric motor	Type	Air-filled submersible induction motor	
	Insulation class	Class E, Class F(CVS-MT)	
	Enclosure	IP68	
	Phase	3	

Optional Specifications

Cable extension	Length of cable 15-20-30m		
Material change	Pump series	CV/CVH-CVS-MT/CVS	CVC-CVM
	Impeller	304 stainless steel casting	304 stainless steel casting High chromium iron casting
	Suction cover	304 stainless steel (casting)	—
	Lifting chain	304 stainless steel	

Standard Accessories

- Cable (0.15 to 7.5kW) 1pc.
- (11 to 22kW) 3pcs.
- 6m for 0.15 to 0.75kW
- 8m for 1.5 to 22kW

Special Accessories

Liquid Level Regulators - All models are non-mercury structure for earth environment.

LC "Level Switch"



MS "Mini Switch"



FV "Oval Float"



Features

LC Useful for potable water, wastewater and sewage containing the suspended solids. Hardly affected by corrosion or rust even if it is immersed in a corrosive liquid for a long time.

MS Useful for wastewater and sewage containing a few suspended solids. The MS is available in two types, MS11 (single float) and MS21 (double float).

FV Useful for the fresh water as well as wastewater not containing suspended solids. A single FV is able to control both the upper and lower liquid levels.

Specifications

Model		LC12	MS11, MS21	FV11
Switch		Micro switch	Reed switch	Reed switch
Specific gravity of liquid		0.95~1.15	0.95~1.10	0.95~1.10
Liquid temperature		0~60°C	0~60°C	0~60°C
Voltage		AC/DC30V or under		
Current		5A	0.5A	0.6A
Cable length		6m, 13m, 20m (for further cable extension at an interval of 10m) MAX. length 100m		
Cable type		0.75mm ² ×3 cores, Flat Cable	0.2mm ² ×2 cores×O.D.4.7mm	0.5mm ² ×2 cores×O.D.5.8mm
Weight (including cable)		6m:1.2kg, 13m:1.6kg, 20m:2.0kg	0.6kg (MS11, 6m cable)	Approx. 1.0kg (6m cable)
Material	Case	Polypropylene resin	ABS resin	Polypropylene resin
	Cable	PVC resin (Soft)	PVC resin (Soft)	PVC resin (Soft)
	Others	Chain: 304 stainless steel	Sinker:PVC Resin coating is applied to FC 150	Sinker:The FC200 is coated

Specifications and dimensions are subject to change without notice.

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