

# CAP SERIES SEWAGE AND WASTE WATER PUMPS

## TECHNICAL SPECIFICATIONS :

- Turbosan CAP series consists of centrifugal sewage and waste water pumps. They are used for pumping muddy liquids like sewage and other solid – water mixtures, with high viscosity.
- For the vertical column pipe types 1500 mm and 1000 mm long standard pipes used. The required length can be adjusted between 1000 mm and 8000 mm by using standard parts.
- Axial thrust force is balanced by vanes located behind the impellers. In column pipe models thrust force impeller and shaft weight are balanced by oil or grease lubricated thrust bearing fitted on base plate.
- In dry installed models Teflon packing or mechanical seals suitable for pumped fluid can be used.
- Pump impellers are statically and dynamically balanced according to ISO 1940 class 6.3
- Direction of rotation of the pumps is clockwise seen from drive end..
- All pumps are tested according to ISO 9906
- CAP series pumps do not have suction ability, there must be positive pressure on suction side.

## FIELDS OF APPLICATIONS :

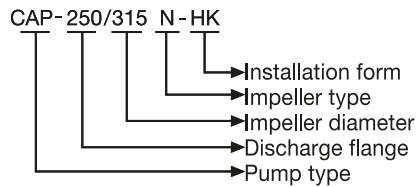
- Domestic and industrial raw sewage water pumping
- Waste water handling plants
- Factory waste waters
- Pumping of fluid with high viscosity and suspensions.
- Pumping liquids in paint plants
- Pumping industrial and chemical waste water.
- Iron and steel industry
- Paper pulp cellulose plants
- Pumping of cooling water
- Draining, deterring

## General details:

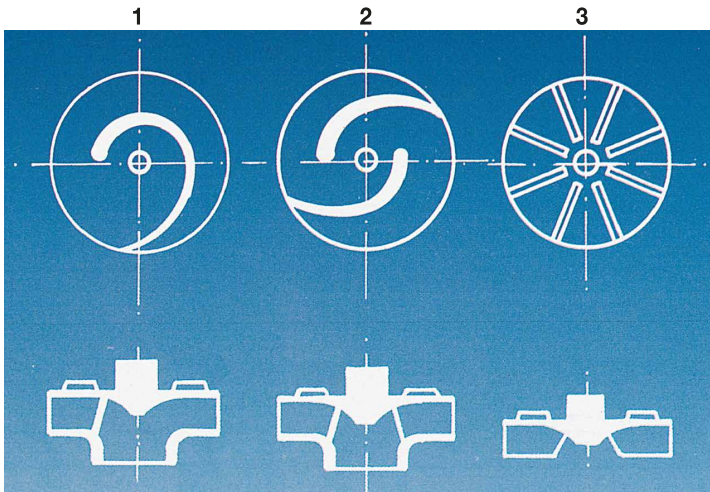
- Suction flange sizes : DN 50 – DN 600
- Discharge flange sizes : DN 50 – DN 600
- Capacity : 10 – 3000 m<sup>3</sup>/h
- Discharge head : 5 – 80 m
- Operating temperature : - 10°C - + 75°C

## FLUID TYPES:

- Unscreened sewage and other waste water types with high solids concentration Pumps are designed to tolerate large solids (Ø 30 Ø - 200 mm diameter) without clogging.
- Water with sand content. Maximum grain size (20 - 30 mm). Liquid, sand ratio can be maximum % 6. For higher sand concentration preventive provisions must be taken against wear.
- Maximum allowed fluid temperature is 40 °C
- Maximum allowed medium density is 1,2 gr/cm<sup>3</sup>, maximum allowed medium viscosity is 1,5 x 10<sup>-6</sup> m<sup>2</sup>/s. Measures must be taken to lower these values.



## PUMP IMPELLER TYPE



## MATERIALS

PART	MATERIALS	
	BRONZE / STAINLESS STEEL VERSION	CAST IRON VERSION
Casing	Cast iron (GJL 250) (EN-JL 1040)	Cast iron (GJL 250) (EN-JL 1040)
Impeller	Bronze / AISI 316	Cast iron (GJL 250) (EN-JL 1040)
Diffusor	Cast iron (GJL 250) (EN-JL 1040)	Cast iron (GJL 250) (EN-JL 1040)
Wear ring	Bronze	Cast iron (GJL 250) (EN-JL 1040)
Shaft	Stainless steel (AISI 420) (1.4021)	Carbon steel (1.0501)
Shaft sleeve	Stainless steel (AISI 420) (1.4021)	Stainless steel (AISI 420) (1.4021)
Column pipes	(1.0120) welding construction	(1.0120) welding construction

**NOTE:** All pump components can be manufactured in different materials optionally according to the properties of the liquid to be pumped.

### SB - SINGLE VANE (NON - CLOG) IMPELLERS

These types of impellers are designed to handle large solids. They do not overload the motor at low heads.

### DB - DOUBLE VANE IMPELLERS

These types of impellers are usually used in large size pumps. Because of rotational symmetry they operate in balance and vibration free. They can pass solids as wide as impeller channels.

### V - VORTEX IMPELLERS

These types of impellers do not have closed channels. The impeller is placed behind the volute. Due to the rotation of the mass of fluid by the impeller, free vortex motion occurs, providing the pumping effect. As a result of this special design they can easily pump long fibrous matter.

# CAP SERIES SEWAGE PUMPS MOUNTING ARRANGEMENTS

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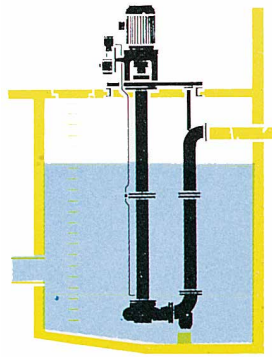
- 1) VY Vertical wet-pit sewage pump with suspension pipe
- 2) VK Vertical dry-pit sewage pump with suspension pipe
- 3) VS Vertical dry-pit sewage pump with universal joint shaft

- 4) VM Vertical dry-pit monoblock sewage pump
- 5) HK Horizontal dry-pit sewage pump

### 1) Form VY

#### Vertical wet-pit sewage pump with suspension pipe:

The pump bearings and intermediate bearings are designed and manufactured to run in a wet-pit. The pump is suspended by use of a support plate. The discharge pipe is also attached to the support plate. The discharge outlet can be either above or below the plate level. Lubrication of the bearings is below either carried out by a manual grease gun or by means of an automatic greaser. For VY type pump it is necessary to build a pump station over the pit as well as a crane system with lifting height of at least 3 metres. Form VY is manufactured for branch sizes up to 500 mm and for depths up to 8 metres.

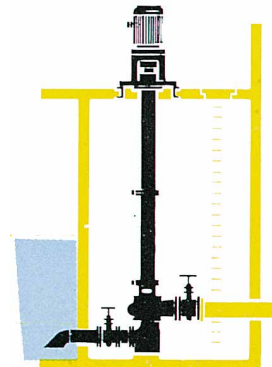


### 2) Form VK

#### Vertical dry-pit sewage pump with suspension pipe:

VK type pumps are manufactured to run in dry-pit. The pump bearings and intermediate bearings are grease lubricated ball bearings. The shaft can either be sealed off with mechanical seals or through a soft packed stuffing box. Form/Type VK permits inspection and maintenance without disturbing suction and discharge piping. Form VK is especially suitable for installation into dry-pits which may be subject to flooding. In this case, the level of the motor support plate must be above the flooding level.

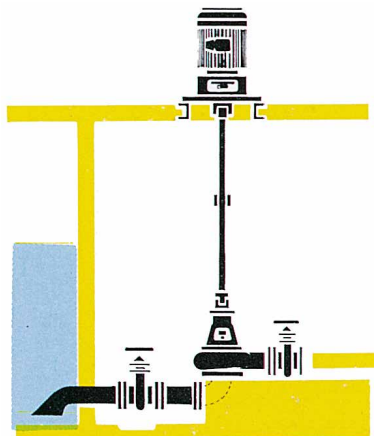
Form VK is manufactured for branch sizes up to 500 mm and for depths up to 10 metres.



### 3) Form VS

#### Vertical dry-pit sewage pump with universal joint shaft:

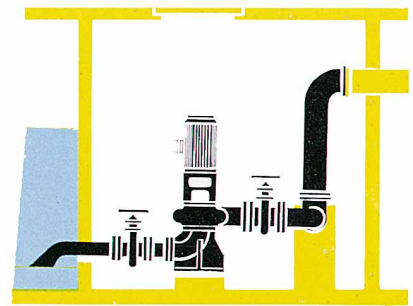
Form VS is especially suitable for installation into deep and dry-pits and for large discharge. The pump unit is supported by foot and is connected to the motor by an exposed vertical shaft. It has all the properties of form VK. Form VS is manufactured for branch sizes of 200 mm and over. Mounting lengths between the pump and the motor up to 10 meters is possible.



### 4) Form VM

#### Vertical dry-pit monoblock sewage pump:

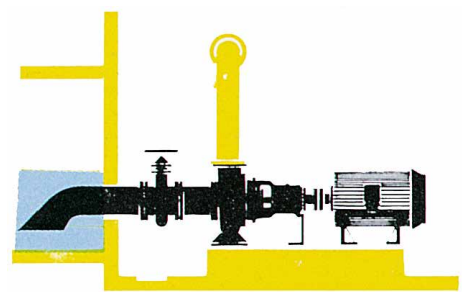
This pump is suitable for installation into dry-pits which are not subject to flooding and for installation on the ground level. Pump and motor form a compact unit. Form VM permits inspection and maintenance without disturbing suction and discharge piping and casing. The shaft can either be sealed off with mechanical seals or through a soft packed stuffing box and is supported by two grease lubricated ball bearings. VM form pumps are manufactured for all branch sizes shown in this booklet.



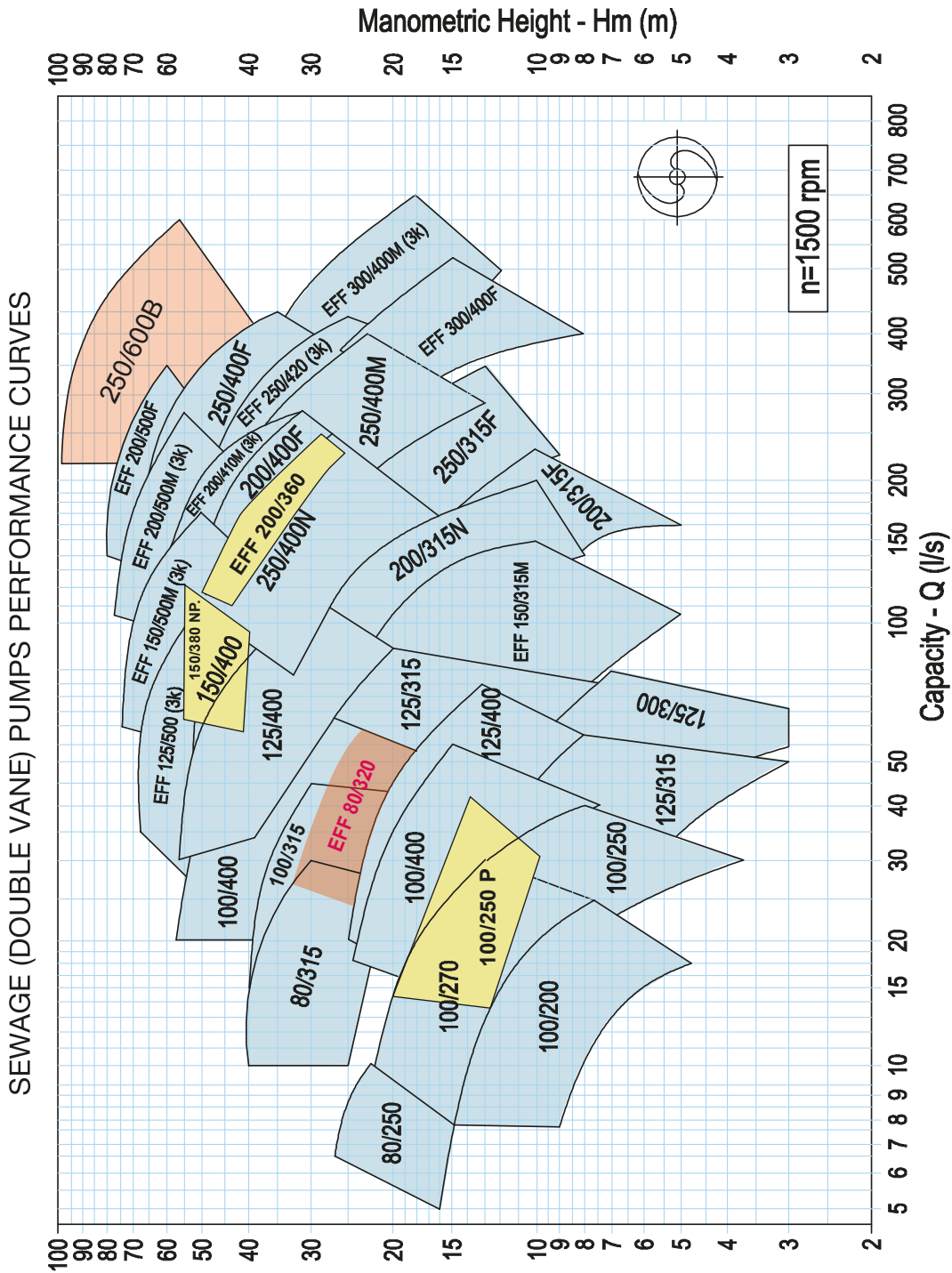
### 5) Form HK

#### Horizontal dry-pit sewage pump:

This pump is suitable for installation wherever there is no danger of flooding. It has all the properties of horizontal pumps. Pump and motor are mounted on a steel base plate and connected by a flexible coupling. The shaft can either be sealed off with mechanical seals or by means of a soft packed stuffing box to avoid water. The pump shaft is supported by two ball bearings with oil or grease lubrication. HK form pumps are manufactured for all branch sizes shown in this booklet.

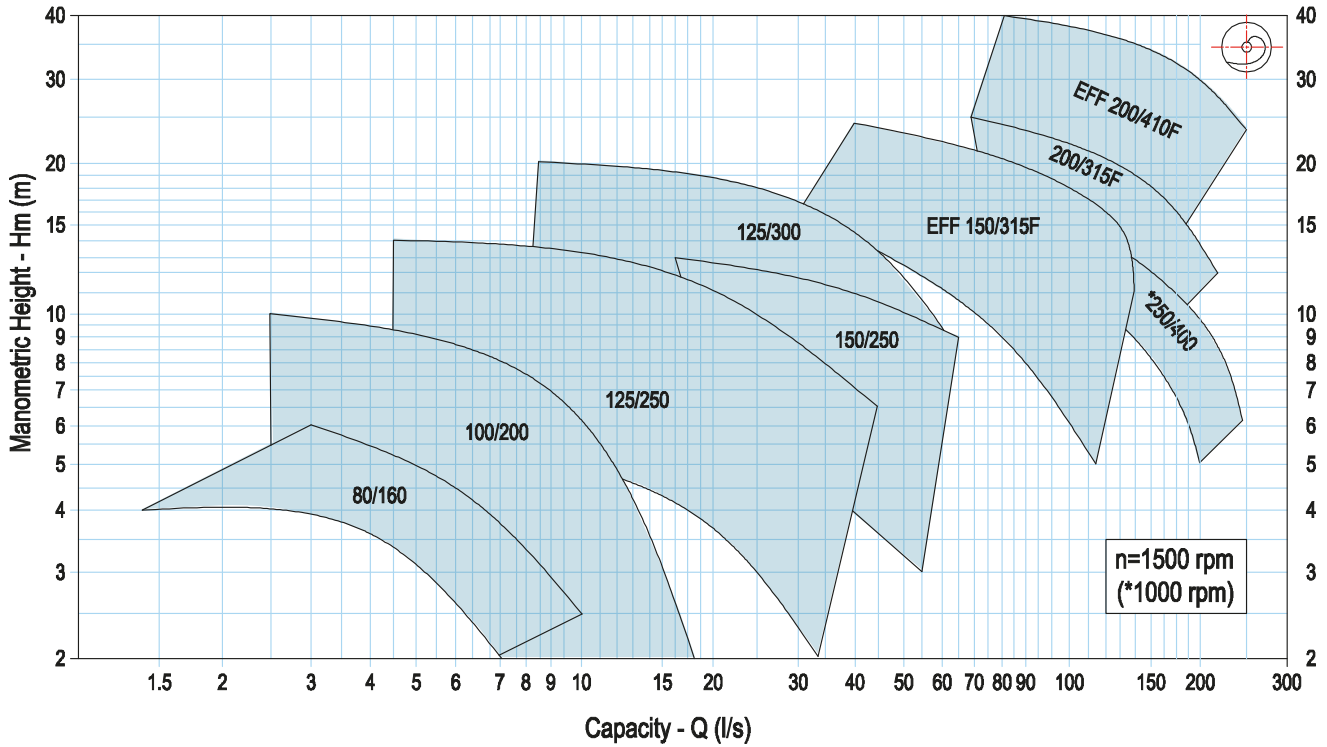


CAP / DAC-SC / DAS SERIES PUMPS GROUP PERFORMANCE CURVES (DOUBLE VANE IMPELLERS)

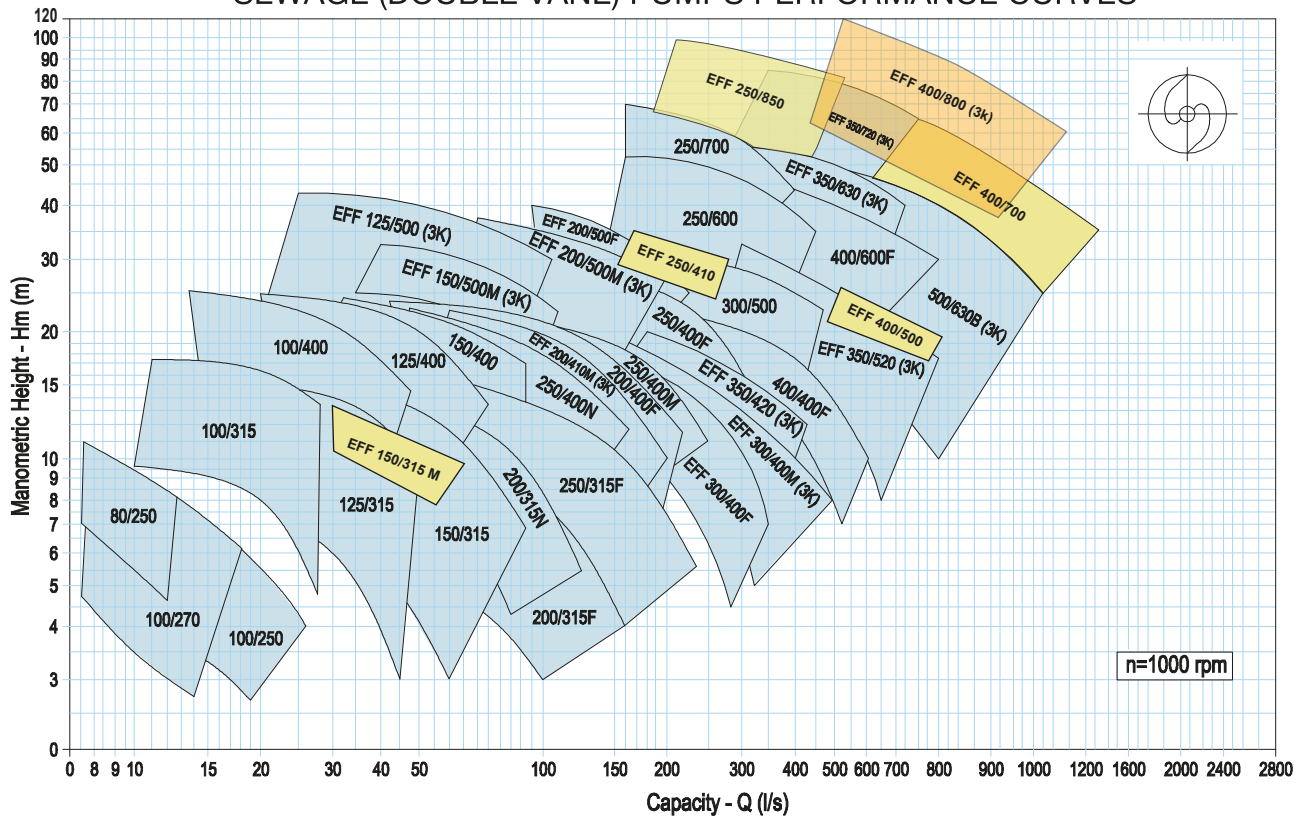


**CAP / DAC-SC / DAS SERIES PUMPS GROUP  
PERFORMANCE CURVES**

**SEWAGE (SINGLE VANE) PUMPS PERFORMANCE CURVES**



**SEWAGE (DOUBLE VANE) PUMPS PERFORMANCE CURVES**

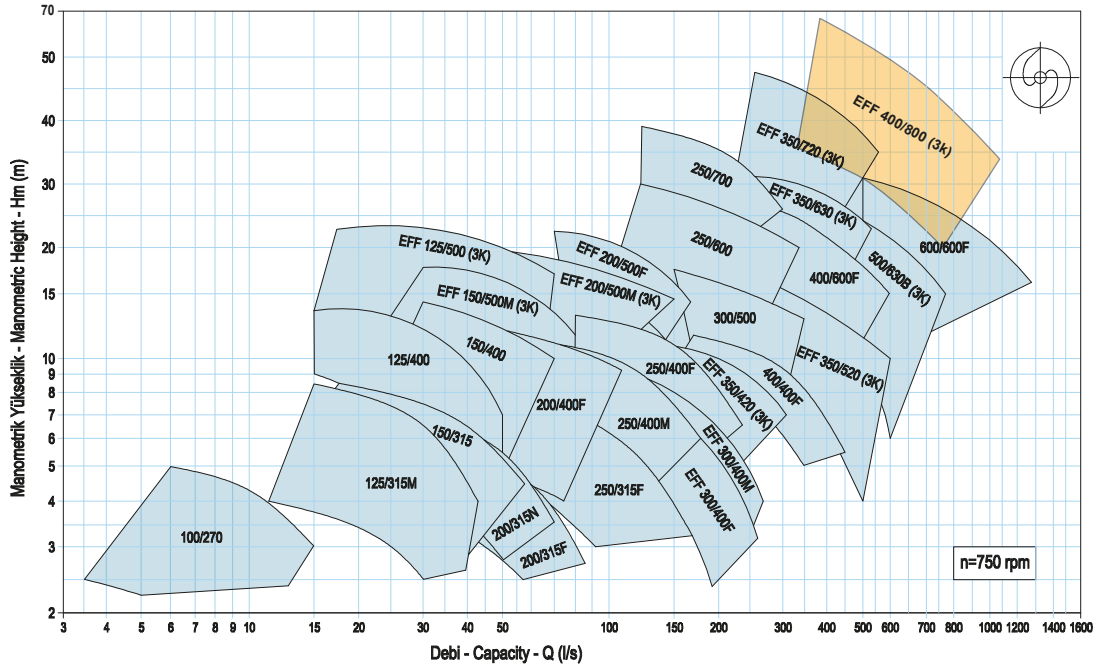


NOTE:

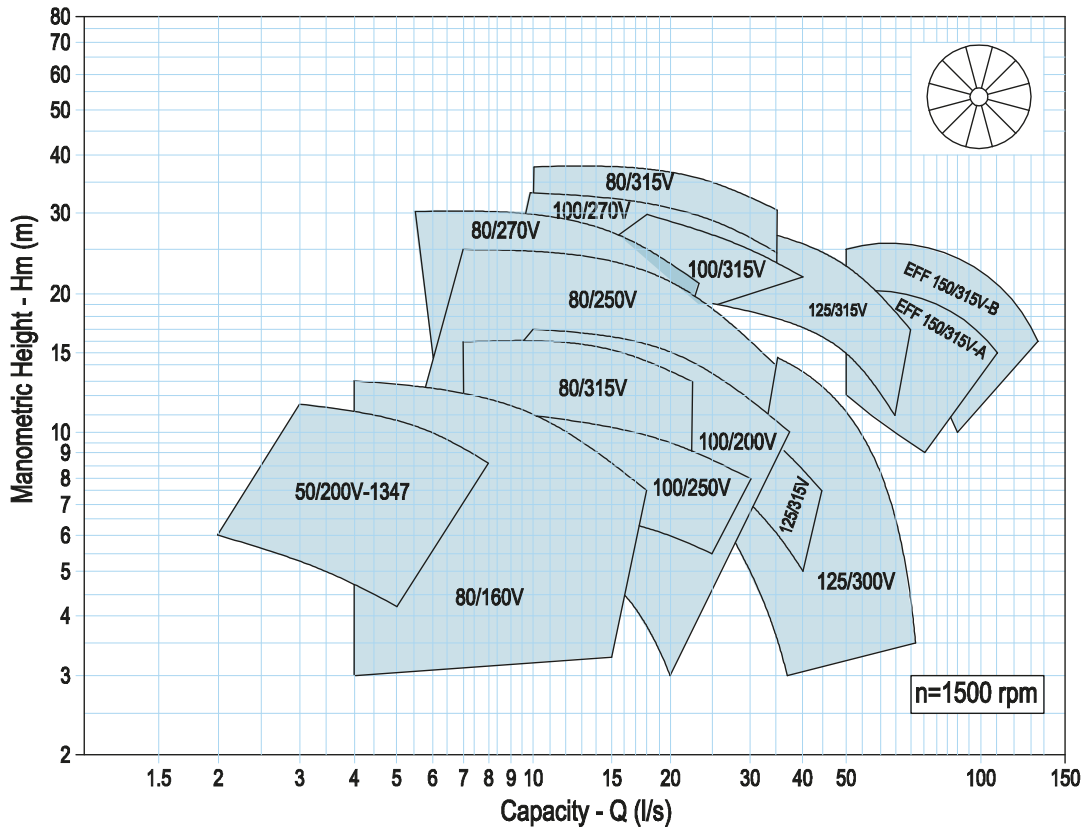
Group performance charts for 2 vane impellers, 3 vane impellers indicated with (3K).

# CAP / DAC-SC / DAS SERIES PUMPS GROUP PERFORMANCE CURVES

SEWAGE (DOUBLE VANE) PUMPS PERFORMANCE CURVES

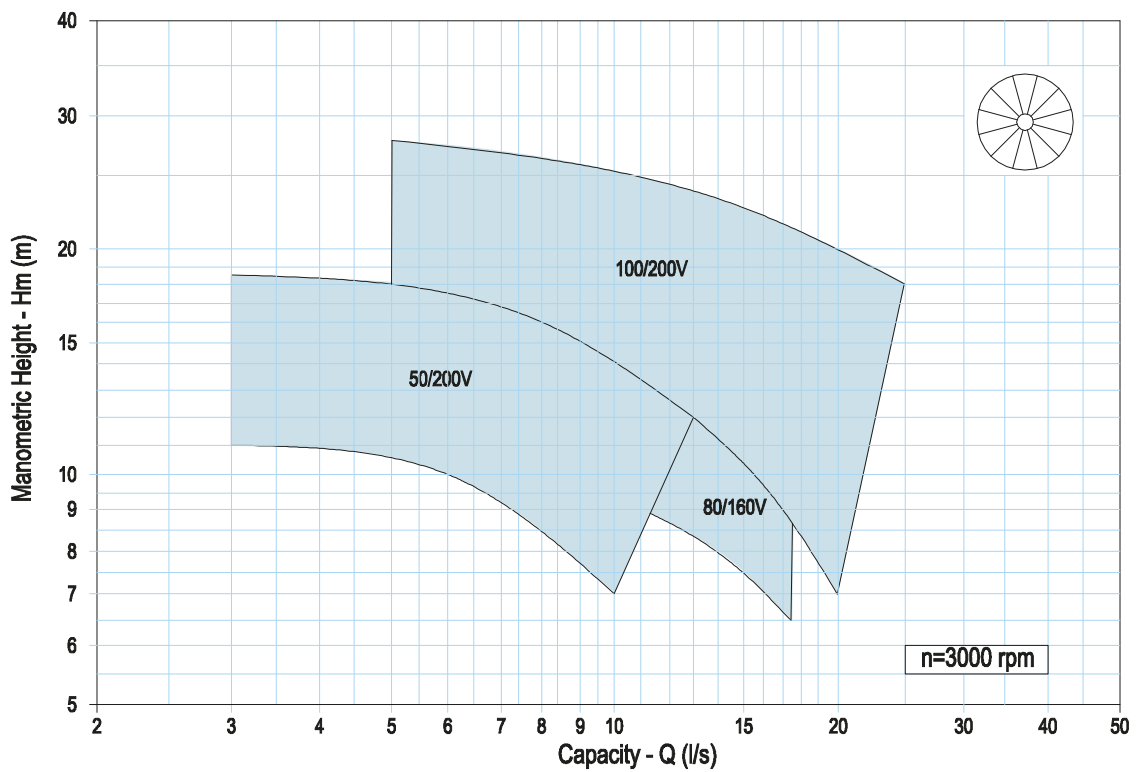
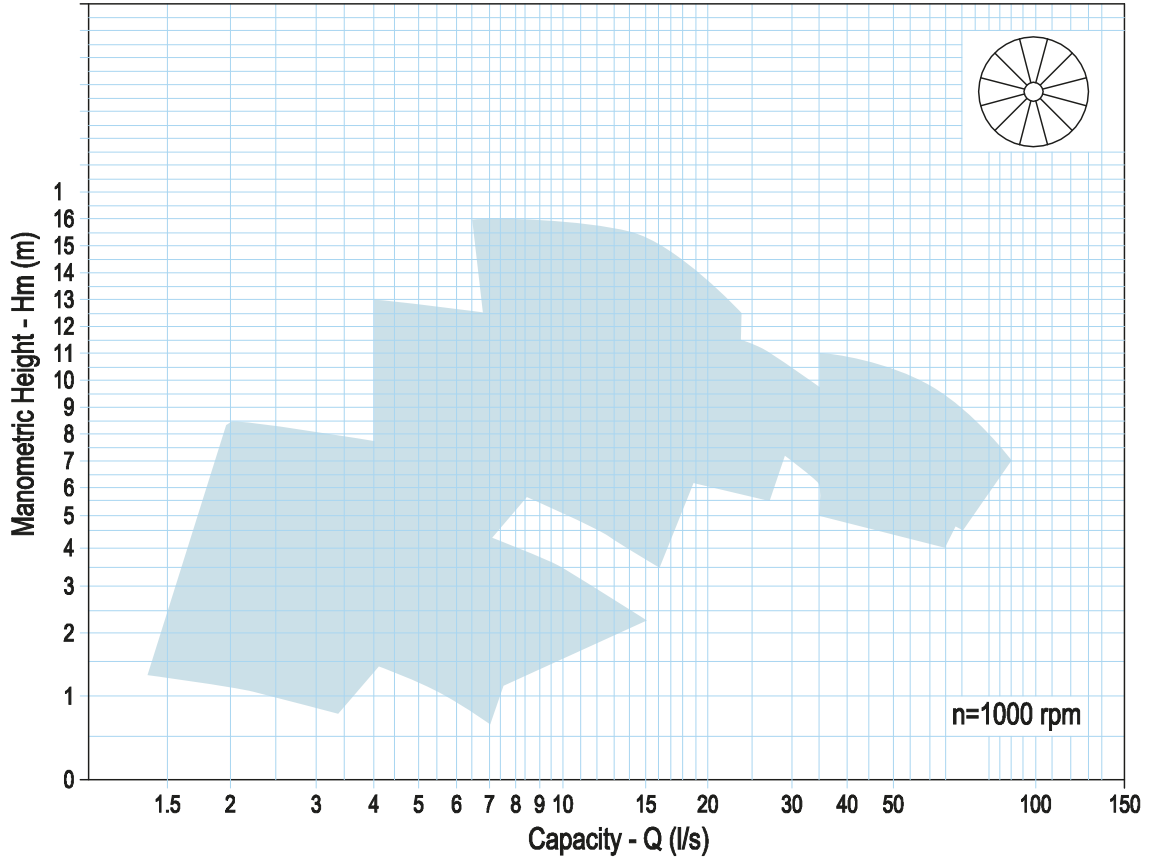


SEWAGE (VORTEX) PUMPS PERFORMANCE CURVES

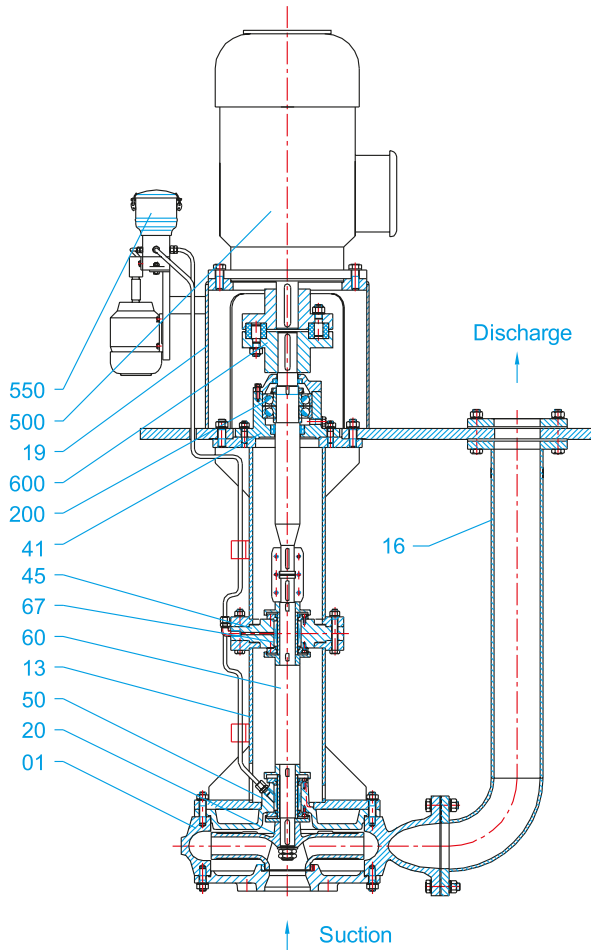


NOTE:  
Group performance charts for 2 vane impellers. 3 vane impellers indicated with "3K"

**CAP / DAC-SC / DAS SERIES PUMPS GROUP  
PERFORMANCE CURVES**



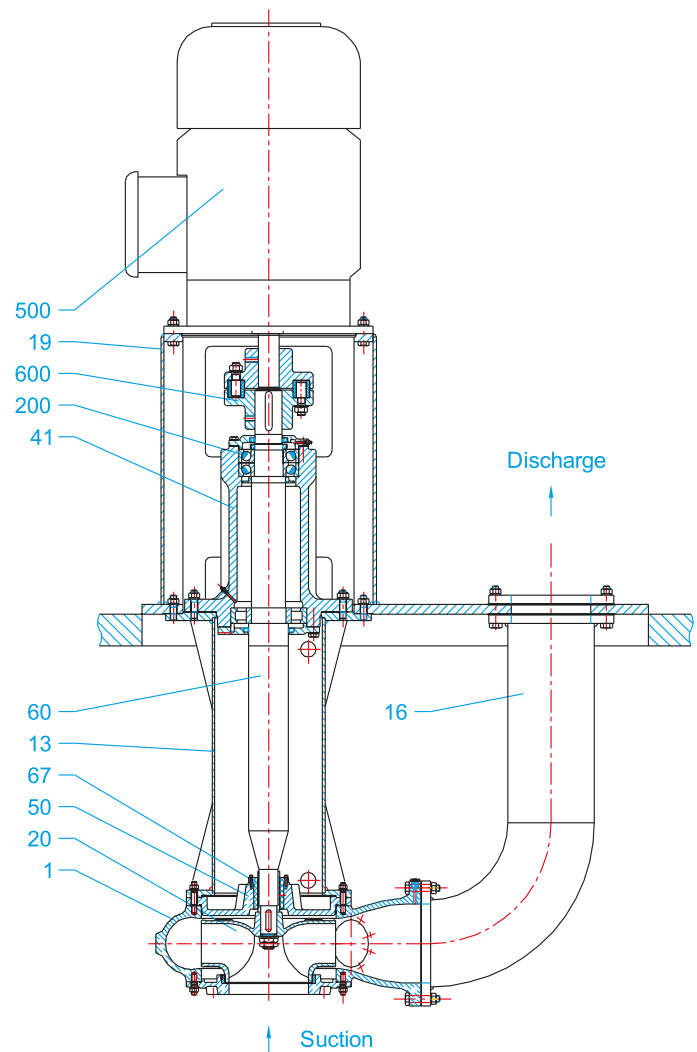
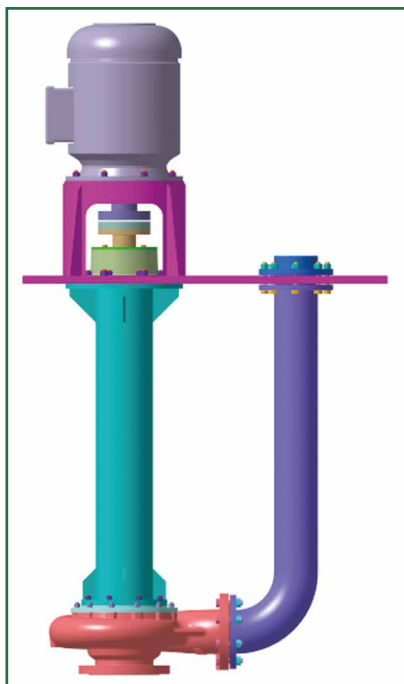
# CAP - VY SERIES PUMPS SECTIONAL DRAWING AND PARTS LIST



## CAP-VY SERIES PUMP PARTS LIST

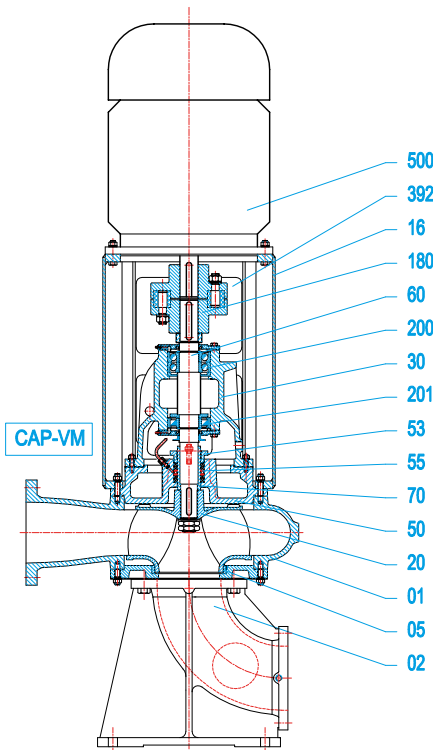
01	Volute
13	Column Pipe
16	Discharge Pipe
19	Motor Stool
20	Impeller
41	Thrust Bearing
45	Intermediate Bearing
50	Stuffing Box
60	Shaft
67	Bearing Sleeve
200	Bearing
500	Electrical Motor
550	Grease Pump
600	Coupling

PUMP WITH GREASE LUBRICATED SLEEVE BEARING



PUMP WITH SELF LUBRICATED RUBBER SLEEVE BEARING

# CAP - HK AND VM SERIES PUMPS SECTIONAL DRAWINGS AND PARTS LIST

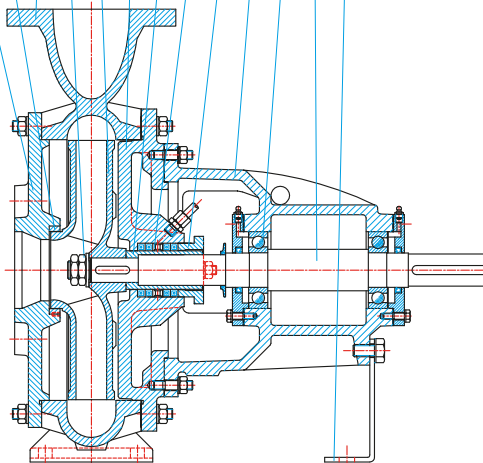


CAP-VM VERTICAL MONOBLOCK  
FORM (A)

CAP-VM & CAP-VS SERIES PUMP PARTS LIST

01	Volute
02	Suction Bend
05	Wear Ring
16	Motor Stool
20	Impeller
30	Bearing Frame
31	Bearing Housing
50	Stuffing Box
53	Gland
55	Lantern Ring
60	Shaft
70	Shaft Sleeve
180	Coupling (CAP-VM)
200	Bearing (73....)
201	Bearing (NU....)
250	Mechanical Seal
390	Cardan Shaft (CAP-VS)
391	Intermediate Bearing (CAP-VS)
392	Safety Guard
500	Electric Motor

02 05 01 65 20 50 70 55 53 30 200 60 11

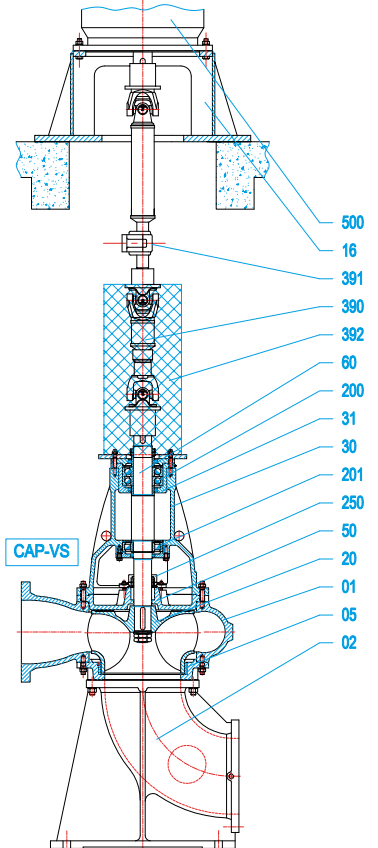


CAP-HK HORIZONTAL PUMP

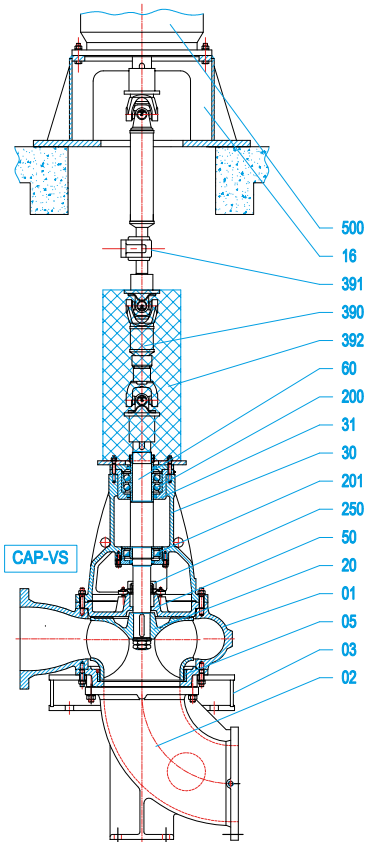
**CAP-HK**

CAP-VM & CAP-VS SERIES PUMP PARTS LIST

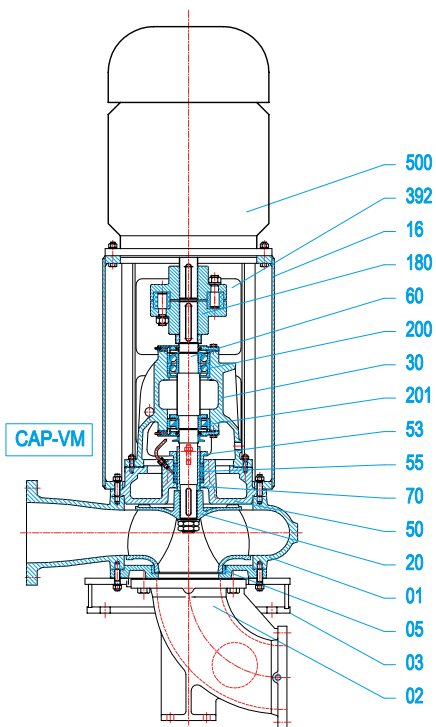
01	Volute
02	Suction Elbow
03	Pump Stool
05	Wear Ring
16	Motor Stool
20	Impeller
30	Bearing Frame
31	Bearing Housing
50	Stuffing Box
53	Gland
55	Lantern Ring
60	Shaft
70	Shaft Sleeve
180	Coupling (CAP-VM)
200	Bearing (73....)
201	Bearing (NU....)
250	Mechanical Seal
390	Cardan Shaft (CAP-VS)
391	Intermediate Bearing (CAP-VS)
392	Safety Guard
500	Electric Motor



CAP-VS VERTICAL CARDAN SHAFT DRIVEN  
FORM (A)

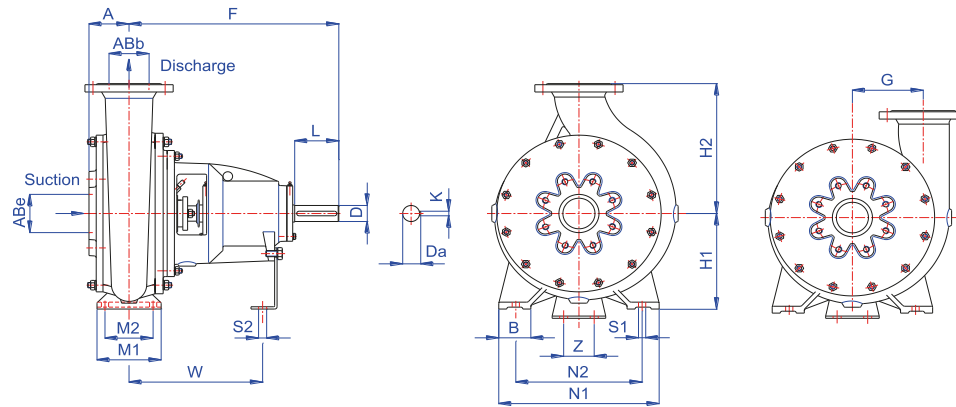


CAP-VS VERTICAL CARDAN SHAFT DRIVEN  
FORM (B)



CAP-VM VERTICAL MONOBLOCK  
FORM (B)

# CAP - HK SERIES HORIZONTAL DRY INSTALLATION SEWAGE PUMPS DIMENSIONS TABLE

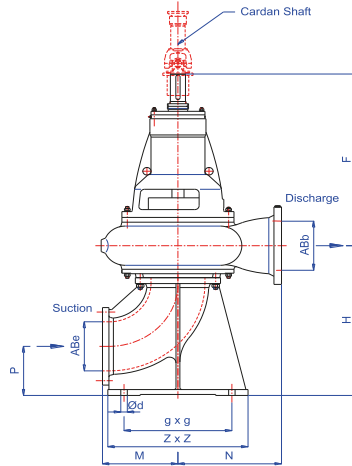


PUMP TYPE	Discharge ABb-PN10	Suction ABe-PN10	A	F	H1	H2	B	M1	M2	N1	N2	S1	D	Da	K	L	W	Z	S2	G			
80/250	80	80	80	487	200	280	80	125	85	360	280	M16	32	35	10	80	305	100	M12	-			
EFF 80/260		125	125	555	250	160		100	315	M12	42	45	12	110	371	150	-						
80/270		80	61	472	225	235		125	85	400	320	32	35	10	80	312	135	-					
80/315		73	555	250	340	85		120	475	400	M16	42	45	12	110	370	-						
EFF 80/320	100	125	125	555	300	80	160	100	320	160	160	M12	32	35	10	80	330	160	-				
100/250		100	78	493	225	240	80	160					M12	32	35	10	80	340	-				
100/250NP		125	100	500	190	290	80	160					M12	42	45	12	110	365	-				
EFF 100/260		150	150	550	250	300	160	120					M16	42	45	12	110	333	-				
100/315		100	100	523	340	80	120	M12					42	45	12	110	395	150	-				
EFF 100/320		150	140	580	275	367	120	150					550	400	M20	42	45	12	110	369	-		
100/400		100	104	553	315	367	120	200					150	550	400	M20	38	41	10	110	378	150	-
EFF 100/400		150	170	562	315	400	120	150					550	400	M20	38	41	10	110	378	150	-	
EFF 100/400NP		150	170	562	315	400	120	150					550	400	M20	38	41	10	110	378	150	-	
125/250		125	125	120	475	250	315	160					120	400	315	M16	32	35	10	80	335	100	M12
125/300	116		529	288	335	200	500	400	M16	42	45	12	110	369	150	-							
125/315	83		557	280	315	250	150	550	450	M20	60	64	18	140	480	190	-						
125/400	107		559	315	370	100	250	150	550	450	M20	60	64	18	140	480	190	-					
EFF 125/500	150	160	720	355	450	100	250	150	550	450	M20	60	64	18	140	480	190	-					
150/250	150	200	159	577	280	355	200	500	400	M16	42	45	12	110	405	15	-						
150/315		118	569	255	380	200	500	400	M16	42	45	12	110	385	100	-							
EFF 150/315		180	570	315	400	200	550	450	M16	52	56	16	110	420	150	-							
150/400		112	630	315	400	200	550	450	M20	38	41	10	110	370	120	-							
150/380NP		200	130	550	315	450	100	150	100	500	415	M20	52	56	16	110	430	150	-				
EFF 150/410		200	175	640	350	450	100	200	150	550	450	M20	52	56	16	110	430	150	-				
EFF 150/500		180	715	380	500	130	250	180	560	450	M20	60	64	18	140	475	190	-					
200/315N		200	127	565	315	360	100	250	150	550	450	M20	42	45	12	110	381	150	-				
200/315F		144	585	330	370	150	240	160	600	500	M20	42	45	12	110	401	150	-					
EFF200/360		250	167	713	380	480	150	250	200	650	500	M20	60	64	18	125	464	190	-				
EFF 200/320	250	200	565	375	500	100	220	140	550	450	M24	42	45	12	110	380	190	-					
200/400	200	148	764	380	530	150	280	200	650	500	M24	60	64	18	140	515	190	-					
EFF 200/410	250	180	740	355	500	120	250	150	550	450	M20	60	64	18	140	490	190	-					
200/500	200	210	874	425	560	160	280	200	720	600	M27	70	75	20	140	630	190	-					
EFF 200/500	250	200	820	425	560	120	280	210	700	600	M20	70	75	20	140	575	190	-					
250/400N	250	250	140	850	380	480	140	250	180	600	500	M27	70	75	20	140	605	190	-				
250/400M		250	160	850	380	480	140	250	180	600	500	M27	70	75	20	140	605	190	-				
250/400F		300	295	855	380	480	140	250	180	600	500	M27	70	75	20	140	606	190	-				
250/400F		350	295	855	380	480	140	250	180	600	500	M27	70	75	20	140	606	190	-				
EFF 250/410		250	165	756	400	525	130	200	650	590	M24	60	65	18	135	517	190	-					
EFF 250/420		250	210	720	400	600	130	170	800	670	M24	60	64	18	140	480	190	-					
250/600		300	321	1159	650	750	180	400	280	1100	940	M27	100	106	28	210	743	400	-				
250/600		350	280	1213	550	650	160	350	250	900	740	M27	100	106	28	210	847	200	M24	-			
250/600B		350	280	1213	550	650	160	350	250	900	740	M27	100	106	28	210	847	200	M24	-			
250/700		300	321	1159	650	750	180	400	280	1100	940	M27	100	106	28	210	743	400	-				
EFF 300/400	300	350	170	860	500	600	180	350	250	800	660	M24	70	75	20	140	605	190	-				
300/500		300	335	882	580	160	350	250	800	660	M24	70	75	20	140	638	190	-					
EFF 350/420		350	200	836	560	800	225	400	300	1080	860	M24	100	106	28	210	592	190	-				
EFF 350/520		265	835	680	800	225	400	300	1080	860	M24	100	106	28	210	915	190	-					
EFF 350/630	400	300	1275	670	150	350	270	800	660	M30	70	75	20	116	606	190	-						
400/400		243	850	580	150	350	270	800	660	M27	70	75	20	116	606	190	-						
400/402		388	858	573	565	150	350	270	800	660	M27	70	75	20	116	606	190	-					
EFF 400/500		300	1375	600	800	250	400	300	1000	750	M36	100	106	28	210	1010	190	-					
400/600	500	417	1035	550	160	400	300	900	740	M27	80	85	22	150	900	240	-						
400/700		300	1375	600	800	250	400	300	1000	750	M36	100	106	28	210	1010	190	-					
500/600		350	1275	700	700	250	440	340	1250	1100	M36	100	106	28	210	915	200	M20	-				
500/630B		422	1202	800	325	500	400	1300	1000	M36	100	106	28	210	814	400	M24	500	-				

NOTE:

- 1) Turbosan reserves right to make any changes in dimensions without giving prior notice.
- 2) For flange dimensions refer to flange standards.

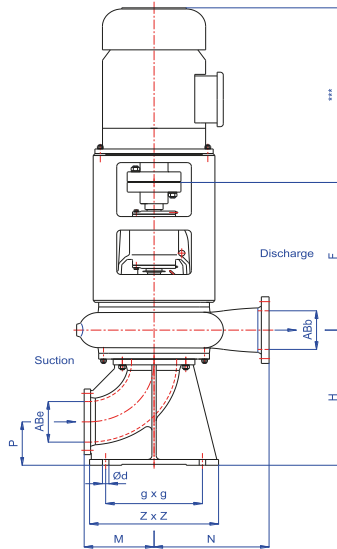
# CAP - VS SERIES VERTICAL DRY INSTALLATION CARDAN SHAFT DRIVE SEWAGE PUMPS DIMENSIONS TABLE



PUMP TYPE	Discharge ABb-PN10	Suction ABe-PN10	F	H	M	N	P	Z x Z	g x g	Ød	Anchor Bolt					
50/200V	50	65	440	294	145	200	125	270X270	200X200	20	M18x200					
80/160	80	80	480	408	190	280	185	350X350	250X250	23	M20x200					
80/250			454	405				350X350	250X250							
EFF 80/260			555	528				440X440	345X345							
80/270	80	80	454	405	190	315	150	350X350	350X350	23	M20x200					
80/315			555	413								340				
EFF 80/320	80	125	555	528	215	300	185	440X440	345X345	23	M20x200					
100/200	100	100	498	435	195	300	190	390x390	295x295	28	M24x250					
100/250			465	446								290				
EFF 100/250NP			500	456												
EFF 100/260	150	550	613	275	300	210	500x500	350X350	23	M20x200						
100/270	100	100	448	440	195	315	190	390X390	295x295	23	M20x200					
100/315			523	468								340				
EFF 100/320	150	580	603	275	340	210	500X500	350X350	28	M24x250						
100/400	100	553	472	195	340	190	390X390	295X295	23	M20x200						
EFF 100/400	150	562	472	195	340	190	390X390	295X295	23	M20x200						
EFF 100/400NP	150	562	472	195	340	190	390X390	295X295	23	M20x200						
125/250	125	125	475	543	215	315	185	440X440	345X345	28	M24x250					
125/300			529	589								275	335	210	500x500	350X350
125/315			561	485								215	315	185	440X440	345X345
125/400	125	125	559	510	215	370	185	440X440	345X345	23	M20x200					
EFF 125/500			720	620								275	450	210	500x500	350X350
150/250	150	150	577	712	325	355	225	600x 600	500x500	30	M27x300					
150/315			570	581								380				
EFF 150/315			644	643								275	400	210	500x500	350X350
150/400	150	200	640	575	275	450	210	500x500	350X350	28	M24x250					
EFF 150/410			640	575												
150/380NP	200	550	715	733	325	370	225	600x 600	500x500	30	M27x300					
EFF 150/500	200	200	565	680	325	370	225	600x 600	500x500	30	M27x300					
200/315N			585	697								370				
200/315F			585	697								370				
EFF 200/320	200	250	565	803	350	500	250	650x650	500x500	30	M27x300					
EFF 200/360			713	813												
200/400	200	200	779	703	325	530	225	600X600	500x500	30	M27x300					
EFF 200/410			740	780								350	500	250	650x650	
200/500			874	763								325	225	600X600		
EFF 200/500	250	820	803	350	560	250	650x650	500X500	30	M27x300						
250/315F	250	250	702	784	350	440	250	650x650	500x500	30	M27x300					
250/400N			757	770								325				
250/400M			875	763								350	480	285	730X705	600X600
250/400F	250	300	882	850	380	480	285	730X705	600X600	30	M27x300					
250/400F			350													
EFF 250/410	250	756	784	350	525	250	650x650	500X500	30	M27x300						
EFF 250/420	250	720	813	350	600	250	650x650	500X500	30	M27x300						
250/600	250	350	1213	948	380	650	285	730X705	600X600	30	M27x300					
250/600			350													
250/600B			350													
250/700	300	1159	853	380	750	205	730X705	700X700	30	M27x300						
EFF 300/400	300	350	850	948	445	600	330	850X850	700X700	30	M27x300					
300/500			882	1000								380	585	285	730X705	600X600
EFF 350/420	350	400	836	978	445	510	800	1000x1000	800X800	30	M27x300					
EFF 350/520			880	1155								330	850X850	700X700		
EFF 350/630			915	1180												
400/400	400	500	858	1130	635	470	470	1200X1200	1000X1000	30	M27x300					
400/402			1276													
EFF 400/500	500	1375	1403	635	700	470	1200X1200	1000X1000	30	M27x300						
400/600	500	1259	1520	635	700	470	1200X1200	1000X1000	30	M27x300						
400/700	500	1275	1454	635	1000	470	1200X1200	1000X1000	30	M27x300						
EFF 400/800	500	1506	1350	550	930	430	500X500	320X320	30	M27x300						
500/600	500	500	1275	1454	635	1000	470	1200X1200	1000X1000	30	M27x300					
500/630B	500	600	1202	1850	960	1000	470	1850X1850	1650X1650	30	M27x300					
600/600	600	600	1202	1850	960	700	470	1850X1850	1650X1650	30	M27x300					

1) Dimensions "mm". Turbosan reserves right to make any changes in dimensions without giving prior notice.  
2) For flange dimensions refer to flange standards.

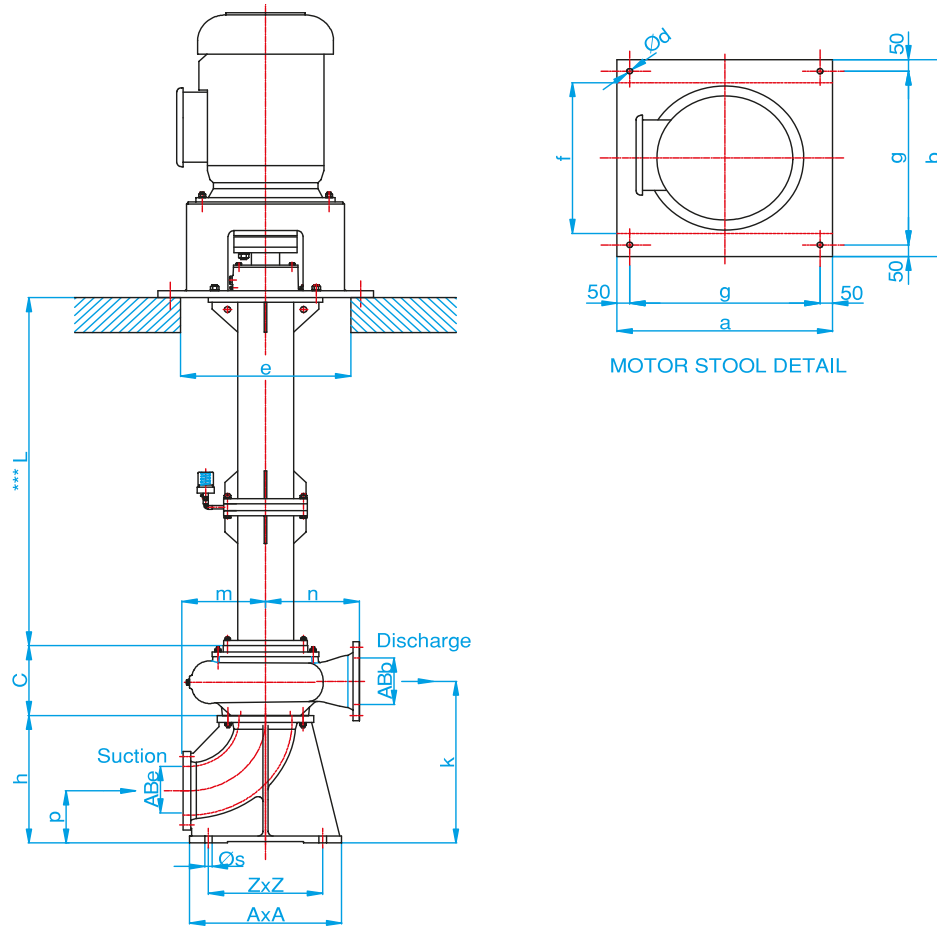
# CAP - VM SERIES VERTICAL DRY INSTALLATION MONOBLOCK SEWAGE PUMPS DIMENSIONS TABLE



PUMP TYPE	Discharge ABb-PN10	Suction ABe-PN10	F	H	M	N	P	Z x Z	g x g	Ød	Anchor Bolt								
50/200V	50	65	440	294	145	200	125	270X270	200X200	20	M18x200								
80/160			480	408															
80/250			454	405															
EFF 80/260	80	125	555	528	215	280	185	440X440	345X345	23	M20x200								
80/270			454	405															
80/315			555	413															
EFF 80/320	80	125	555	528	215	300	185	440X440	345X345	23	M20x200								
100/200			498	435															
100/250			465	446															
EFF 100/250NP	100	100	500	456	195	300	190	390x390	295x295	28	M24x250								
EFF 100/260			150	550								613	275	300	210	500x500	350X350		
100/270			448	440								195	315	190	390X390	295x295	23	M20x200	
100/315	100	100	523	468	275	340	210	500X500	350X350	28	M24x250								
EFF 100/320			150	580								603	275	340	190	390X390	295x295	23	M20x200
100/400			100	553								472	195	340	190	390X390	295x295	23	M20x200
EFF 100/400	100	150	562	472	195	340	190	390X390	295x295	23	M20x200								
EFF 100/400NP			150	562								472							
125/250			125	475								543	215	315	185	440X440	345X345	28	M24x250
125/300	125	150	529	589	275	335	210	500x500	350X350	28	M24x250								
125/315			561	485								215	315	185	440X440	345X345	23	M20x200	
125/400			559	510								215	370	185	440X440	345X345	23	M20x200	
EFF 125/500	150	200	720	620	275	450	210	500x500	350X350	28	M24x250								
150/250			577	712								325	355	225	600x 600	500x500	30	M27x300	
150/315			150	150								570	581	275	400	210	500x500	350X350	28
EFF 150/315	643	400																	
150/400	644	575			450														
EFF 150/410	150	200	640	575	275	450	210	500x500	350X350	28	M24x250								
150/380NP			200	550								450							
EFF 150/500			715	733								500							
200/315N	200	200	565	680	325	370	225	600x 600	500x500	30	M27x300								
200/315F			585	697								370							
EFF 200/320			250	565								803	350	500	250	650x650	500x500	30	M27x300
EFF 200/360	200	250	713	813	350	500	225	600X600	500x500	30	M27x300								
200/400			779	703								325	530	225	600X600	500x500	30	M27x300	
EFF 200/410			250	740								780	350	500	250	650x650	500x500	30	M27x300
200/500	200	200	874	763	325	560	225	600X600	500x500	30	M27x300								
EFF 200/500			250	820								803	350	500	250	650x650	500x500	30	M27x300
250/315F			300	702								784	350	440	250	650x650	500x500	30	M27x300
250/400N	250	200	757	770	325	480	285	730X705	600X600	30	M27x300								
250/400M			300	875								763	350	480	285	730X705	600X600	30	M27x300
250/400F			300	882								850	380	480	285	730X705	600X600	30	M27x300
250/400F	250	350	756	784	350	525	250	650x650	500X500	30	M27x300								
EFF 250/410			250	756								784	350	525	250	650x650	500X500	30	M27x300
EFF 250/420			250	720								813	350	600	250	650x650	500X500	30	M27x300
250/600	300	300	1213	948	380	650	285	730X705	600X600	30	M27x300								
250/600B			300	1159								853	380	750	205	730X705	600X600	30	M27x300
250/700			350	850								948	445	600	330	850X850	700X700	30	M27x300
EFF 300/400	300	300	882	1000	380	585	285	730X705	600X600	30	M27x300								
300/500			350	836								978	445	330	850X850	700X700	30	M27x300	
EFF 350/420			350	836								978	445	330	850X850	700X700	30	M27x300	
EFF 350/520	350	400	880	1155	510	800	380	1000x1000	800X800	30	M27x300								
EFF 350/630			915	1180								800	380	1000x1000	800X800	30	M27x300		
400/400			858	1130								800	380	1000x1000	800X800	30	M27x300		
400/402	400	500	1375	1403	635	700	470	1200X1200	1000X1000	30	M27x300								
EFF 400/500			1275	1454								635	1000	470	1200X1200	1000X1000	30	M27x300	
400/600			1275	1454								635	1000	470	1200X1200	1000X1000	30	M27x300	
400/700	400	500	1506	1350	550	930	430	500X500	320X320	30	M27x300								
EFF 400/800			1275	1454								635	1000	470	1200X1200	1000X1000	30	M27x300	
500/600			1275	1454								635	1000	470	1200X1200	1000X1000	30	M27x300	
500/630B	500	600	1202	1850	960	1000	470	1850X1850	1650X1650	30	M27x300								
600/600			1202	1850								960	1000	470	1850X1850	1650X1650	30	M27x300	

1) Dimensions "mm". Turbosan reserves right to make any changes in dimensions without giving prior notice.  
 2) For flange dimensions refer to flange standards.

## CAP - VK SERIES VERTICAL DRY INSTALLATION SUSPENSION PIPE SEWAGE PUMPS DIMENSIONS TABLE



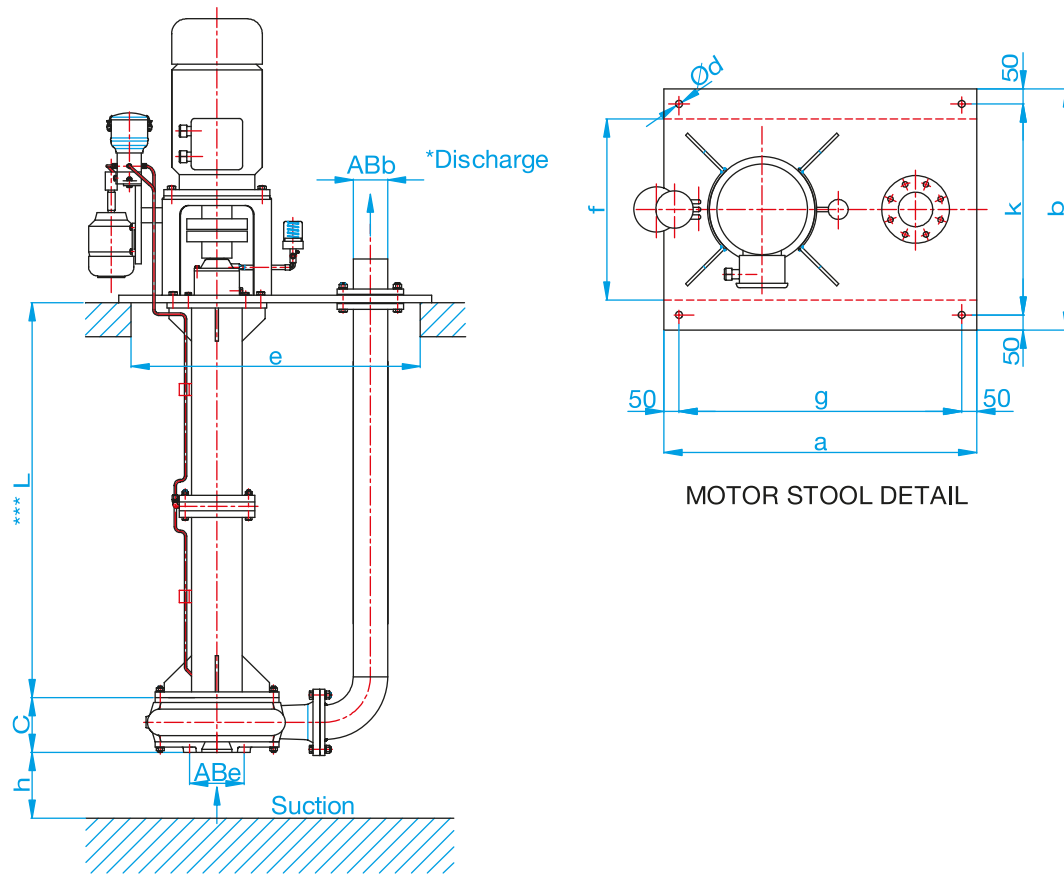
PUMP TYPE	Discharge ABb-PN10	Suction ABe-PN10	a	b	g	Ød	e	f	p	h	C	k	m	n	AXA	ZxZ	Øs	Anchor Bolt
50/200V	50	65	400	450	350	20	400	300	125	240	95	290	145		250x250	200x200	20	M18X200
80/160	80	80	700	700	600	23	450	500	150	340	135	405	190	200	350x350	250x250	23	M20x200
80/250							600				280							
80/270							500				128	267						
80/315							600				152	340						
100/250	100	100	700	700	600	23	500	500	195	375	170	465	200	300	400x400	300x300	23	M20x200
100/270							500				132	447		235				
100/315							600				195	475		340				
100/400							600				230	480		367				
125/250N-F	125	125	800	800	700	28	650	550	185	400	210	540	215	315	450x450	350x350	28	M24x250
125/315N-F							215				485	370						
125/400M							240				510	400						
150/315M							260				580	300						
150/400M	150	150	900	900	800	28	750	640	210	460	276	472	275	400	500x500		28	M24x250
200/315N	200	200	1000	1000	900	28	850	760	225	550	282	682	325	340	600x600	450x450	30	M27x300
200/315F											302	700		370				
200/400M											366	700		535				
250/400N											335	690						
250/400M	250	250	1000	1000	900	28	850	760	250	600	304	760	350	480	650x650	500x500	30	M27x300
250/400F	300	300	1000	1000	900	28	850	760	285	665	332	853	380	480	700x700	550x550	30	M27x300

1) Dimensions (mm) subject to change without prior notice!

2) For flange dimensions refer to flange standards.

L = Total column pipe length.

# CAP - VY SERIES VERTICAL WET INSTALLATION SUSPENSION PIPE SEWAGE PUMPS DIMENSIONS TABLE



PUMP TYPE/	Discharge ABb-PN10	Suction ABe	C	h min .	e	a	g	b	k	f	Ød	Anchor Bolt
50/200V	50	65	95	150	600	600	500	450	350	300	20	M18x200
80/160V	80	80	135	200				750	750	650	500	
80/250			118		700	600	500					
80/270			128									
80/315			152		750	650	550					
100/250	100	100	170	250	800	800	700	700	600	500	28	M24x250
100/270			132									
100/315			195									
100/400			230					1000	1000	900		
125/250N-F	125	125	210	300	800	800	700	700	600	500		
125/315N-F			215									
125/400M			240									
150/315M	150	150	260	400	1250	1250	1150	800	700	600		
150/400M			276									
200/315N	200	200	282	450	1250	1250	1150	800	750	650		
200/315F			315									
200/400M			366									
250/400N			335									
250/400M	250	250	304	500	1400	1500	1400	1000	900	800		
250/400F		300									332	

1) Dimensions (mm) subject to change without prior notice!  
 2) For flange dimensions refer to flange standards.  
 L = Total column pipe length