

BPK/CDK/ CPK

Vertical Chemical Resistant
Submersible Pumps

50/60Hz



Capacity: 70L/min to 1050 L/min

Head: 6M to 37M

Liquid Temperature: up to 80°C

Leak Free Sealless Design

Excellent Corrosion Resistant



BPK/CDK Vertical Chemical Submersible Pumps are design in Acid and Alkaline Liquid applications. It is made entirely of glassfibre reinforced polypropylene with outstanding chemical resistance.

CPK Vertical Chemical Submersible Pumps are design in Acid and Alkaline Liquid applications. It is made entirely of Stainless Steel 316 with outstanding chemical, mechanical resistance with high temperature applications.

Pumps are sealless design which can run free without water and some particles are also possible. The motor bearing is one size larger which longer life in pumps operation.

Vertical square flange design is easy to tank mounting. The products are variety material selection such as FRPP, CFRPP, CPVC, PVDF and SUS 316 to fit in difference applications.

The pumps are easy maintenance without any special tools. Parts are replaceable and highly standardized.

Applications

- Printed Circuit Board Process
- Chemical Industry
- Etching Process
- Surface Treatment
- Environmental Protection
- Electro-plating Process
- Metalworking Machinery
- Toxic liquid
- Photographic Developing Process

Operating Conditions

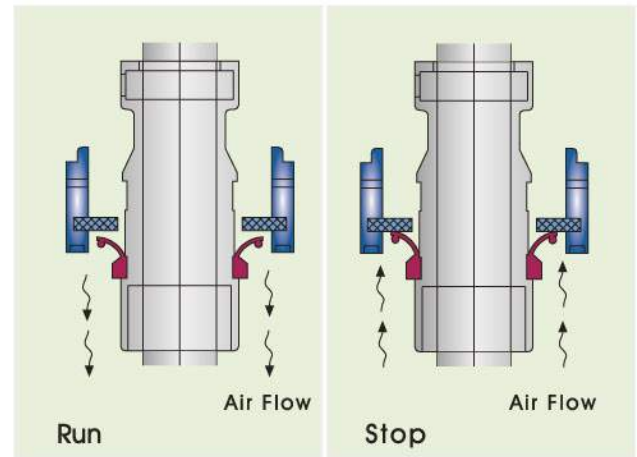
Flow (M³/hr): 70L/min to 1050 L/min

Head (M): 6M to 37M

Liquid Temperature: up to 80°C

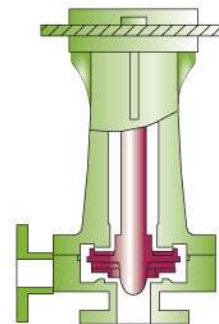
Materials of Main Parts

Items	Parts	BPK	CDK	CPK
1	Motor	Aluminum	Cast Iron	Cast Iron
2	Shaft	SUS 304	SUS304	SUS316
3	Ceramic Gasket	NBR	Viton	Viton/Teflon
4	Pump Body	FRPP/CFRPP/CPVC/PVDF	FRPP/CFRPP/CPVC/PVDF	SUS316
5	Impeller	FRPP/CFRPP/CPVC/PVDF	FRPP/CFRPP/CPVC/PVDF	SUS316
6	Front Cover	FRPP/CFRPP/CPVC/PVDF	FRPP/CFRPP/CPVC/PVDF	SUS316
7	O Ring	NBR/Viton	NBR/Viton	NBR/Viton/Teflon



Special Merits

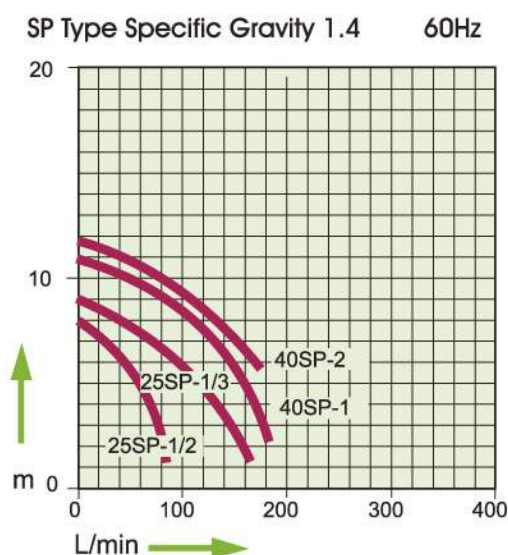
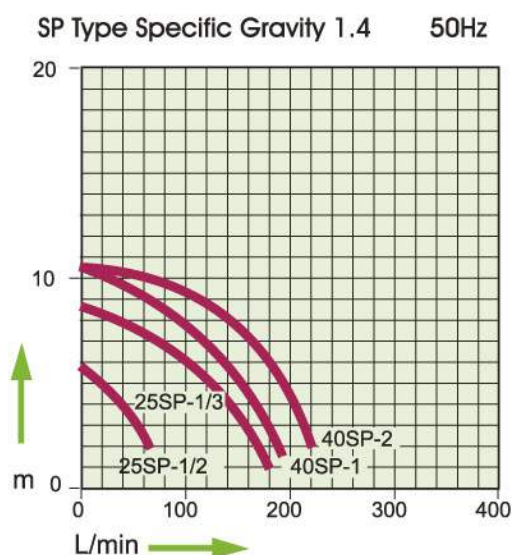
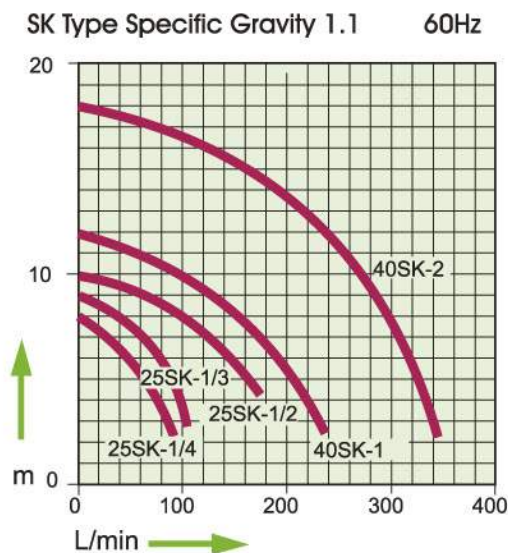
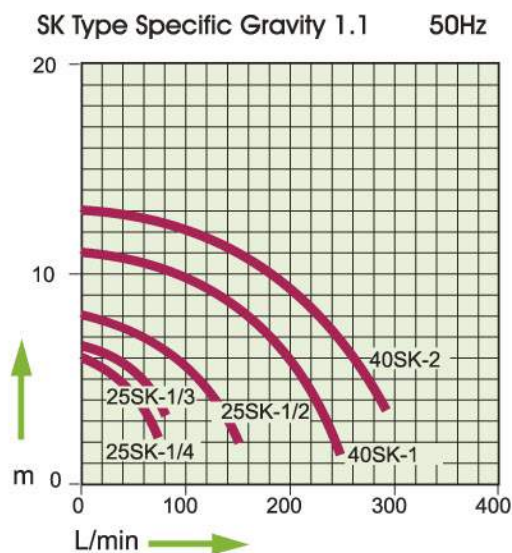
- All wet parts are made of high chemical resistance materials of FRPP, CPVC and PVDF.
- Special impeller design to minimize the generation of air bubbles.
- Seal-less structure design: no friction in running; able to Dry-running; contain small particles.
- Dryseal to prevent acid air go into the motor to let bearing rusting.





Performance Curve

BPK



SK Type Specific Gravity 1.1

50Hz/60Hz

TYPE BPK	MODEL	BPK-25SK-1/4	BPK-25SK-1/3	BPK-25SK-1/2	BPK-40SK-1	BPK-40SK-2
In-outlet dimension	IN mm	25	25	40	50	50
	OUT mm	20	25	25	40	40
HP	inch	1/4	1/3	1/2	1	2
Max Capacity (L/min)	50hz	70	80	150	240	290
	60hz	85	100	165	225	340
Max Head (M)	50hz	6	6.5	8	11	13
	60hz	8	9	10	12	18
Weight	kg	13	13	20	20	24

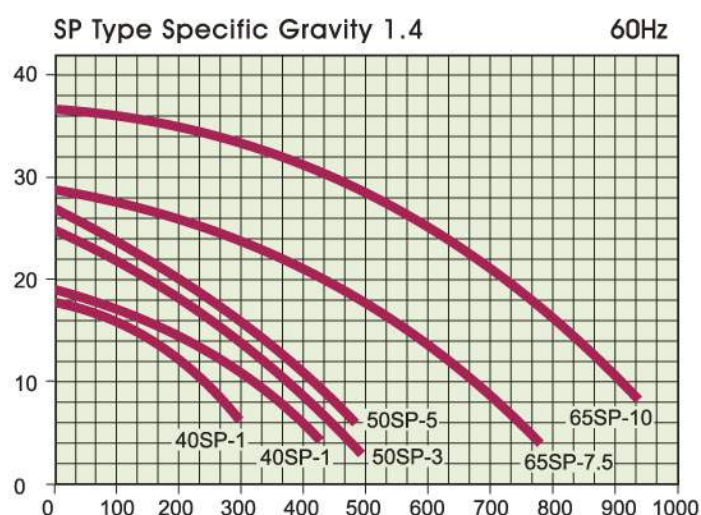
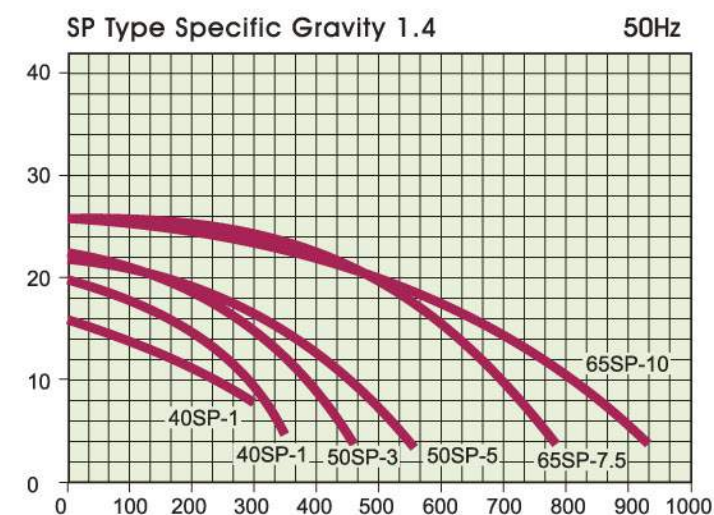
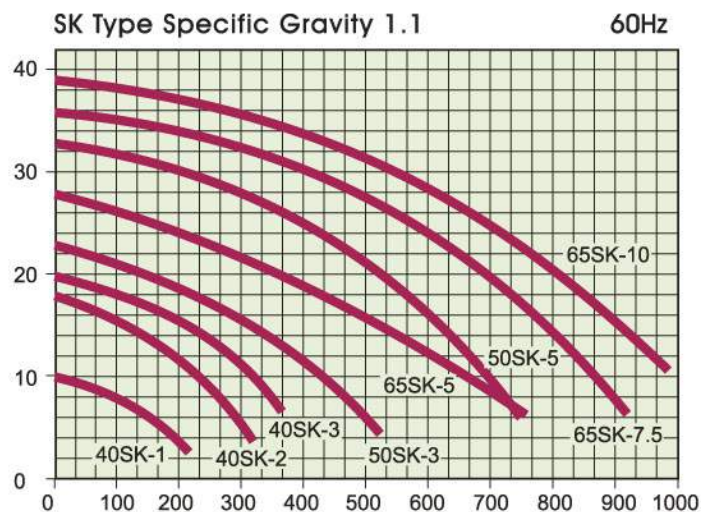
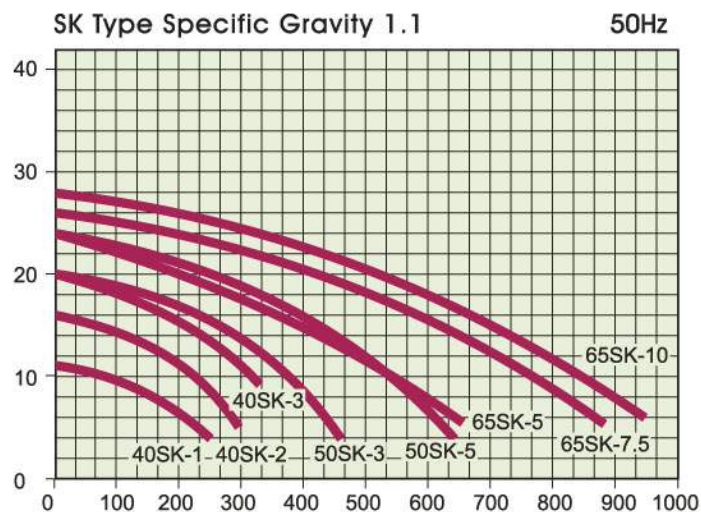
SP Type Specific Gravity 1.4

50Hz/60Hz

TYPE BPK	MODEL	BPK-25SP-1/3	BPK-25SP-1/2	BPK-40SP-1	BPK-40SP-2
In-outlet dimension	IN mm	25	40	50	50
	OUT mm	25	25	40	40
HP	inch	1/3	1	1	2
Max Capacity (L/min)	50hz	70	200	190	225
	60hz	85	185	175	180
Max Head (M)	50hz	6	11	9	11
	60hz	8	11	9	12
Weight	kg	13	20	20	24



Performance Curve

CDK


SK Type Specific Gravity 1.1

50Hz/60Hz

TYPE CDK	MODEL	CDK-40SK-1	CDK-40SK-2	CDK-40SK-3	CDK-50SK-3	CDK-50SK-5	CDK-65SK-5	CDK-65SK-7.5	CDK-65SK-10
In-outlet dimension	IN mm	50	50	50	65	65	80	80	80
	OUT mm	40	40	40	50	50	65	65	65
HP	inch	1	2	3	3	5	5	7 1/2	10
Max Capacity (L/min)	50hz	250	300	375	460	650	680	900	950
	60hz	210	320	375	525	750	770	930	1050
Max Head (M)	50hz	11	16	20	20	24	24	26	28
	60hz	10	18	20	23	33	28	36	39
Weight	kg	29	38	41	41	55	55	95	106

SP Type Specific Gravity 1.4

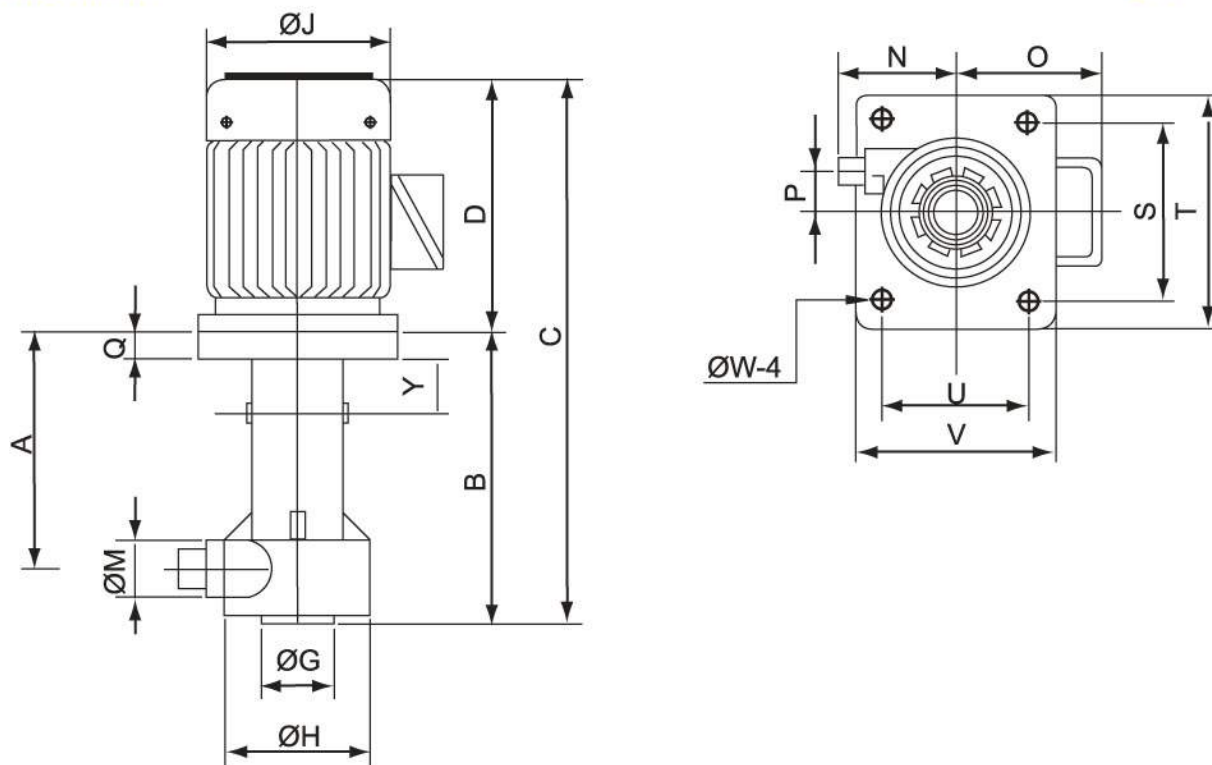
50Hz/60Hz

TYPE CDK	MODEL	CDK-40SP-3	CDK-50SP-3	CDK-50SP-5	CDK-65SP-5	CDK-65SP-7.5	CDK-65SP-10
In-outlet dimension	IN mm	50	65	65	80	80	80
	OUT mm	40	50	50	65	65	65
HP	inch	3	3	5	5	7 1/2	10
Max Capacity (L/min)	50hz	300	350	470	550	785	950
	60hz	300	430	490	500	790	950
Max Head (M)	50hz	16	20	23	22	26	26
	60hz	18	19	27	25	29	37
Weight	kg	41	41	55	55	95	106



Dimension

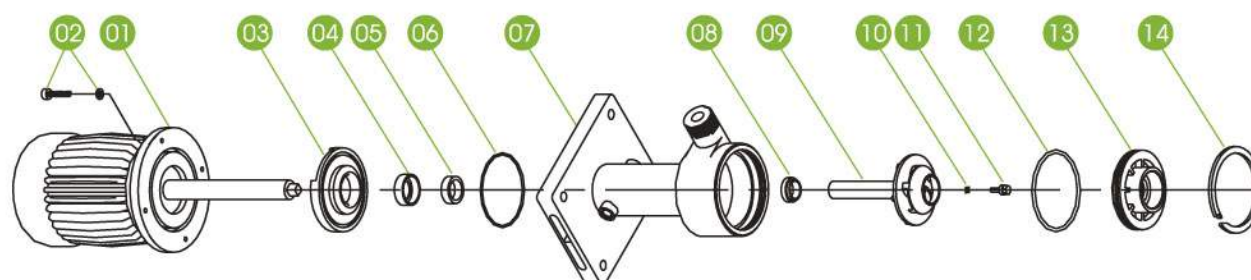
BPK



TYPE	INSTALLATION DIMENSIONS																	
	A	B	C	D	G	H	J	M	N	O	P	Q	S	T	U	V	W	Y
BPK-25※※-1/4	245	285	485	205	42	110	144	43	110	142	35	30	180	230	150	198	10	53.5
BPK-25※※-1/3	245	285	485	205	70	144	177	49	115	153	41	30	180	230	150	198	15	53.5
BPK-40※※-1	234	290	530	258	70	144	177	49	115	153	41	30	180	230	150	198	15	30.5
BPK-40※※-2	234	290	530	258	70	144	177	49	115	153	41	30	180	230	150	198	15	30.5

※※: SK / SP

Construction



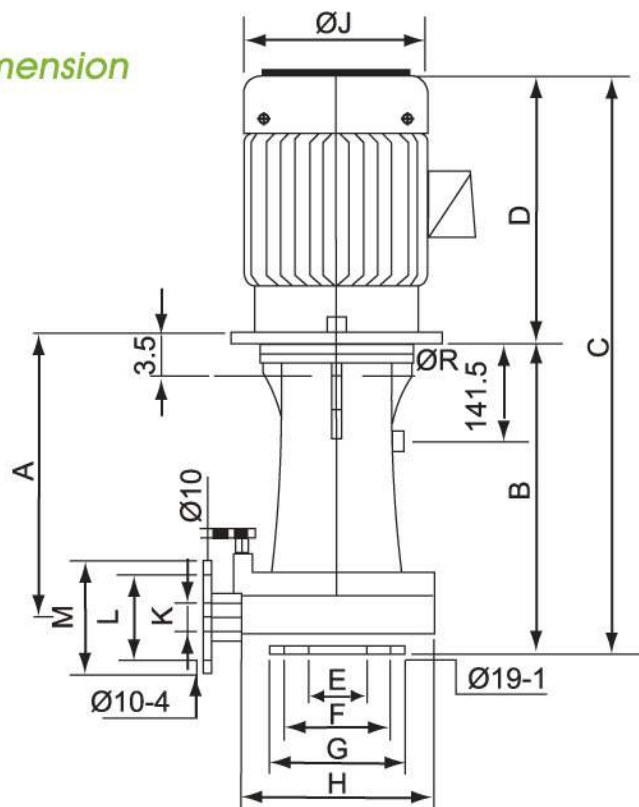
Part List

NO.	Description	Materials	NO.	Description	Materials
01	Body Screw	SUS/TI	08	Shaf Pin	NBR/VITON
02	Motor	FC	09	Impeller	FRPP/CFRPP/CPVC/PVDF
03	Drain Seal Cover	FRPP/PVDF	10	Impeller Ficed Screws O-ring	NBR/VITON
04	Ceramic Gasket	NBR	11	Impeller Ficed Screw	FRPP/PVDF
05	Ceramic	CERAMIC	12	Front Cover O-ring	NBR/VITON
06	Drain Seal Cover O-ring	NBR/VITON	13	Front Cover	FRPP/CFRPP/CPVC/PVDF
07	Body	FRPP/CFRPP/CPVC/PVDF	14	C-clip	FRPP/CPVC/PVDF

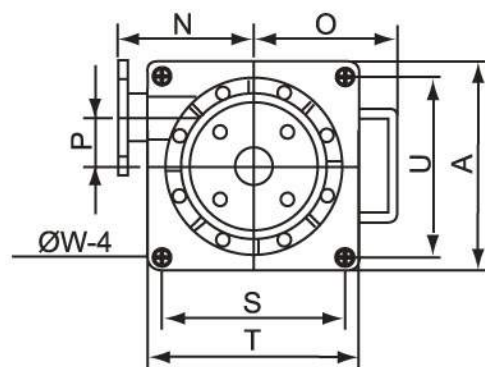
Note: There are NO Accessories of 24, 25-1, 25-2, 26 and 5 in BP-1/4 and 1-3



Dimension



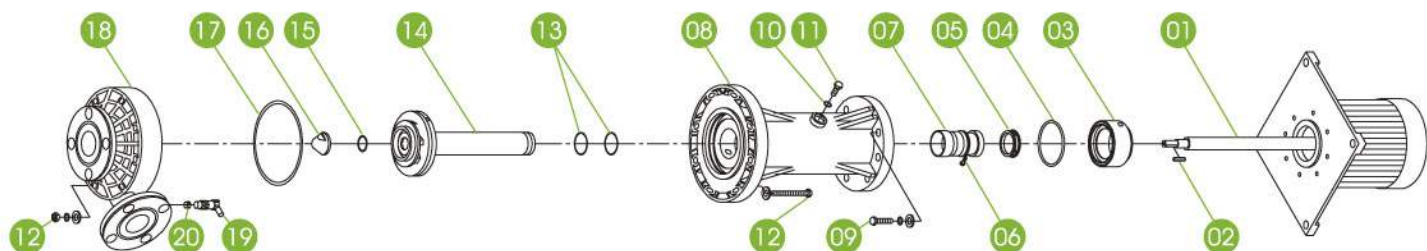
CDK



	INSTALLATION DIMENSIONS																						
TYPE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
CDK-40※※-1	350	425	710	285	50	120	155	230	4	177	40	105	145	170	155	65	16	186	222	260	222	260	15
CDK-40※※-2	350	425	755	330	50	120	155	230	4	200	40	105	145	170	165	65	16	186	222	260	222	260	15
CDK-40※※-3	350	425	755	330	50	120	155	230	4	200	40	105	145	170	165	65	16	186	222	260	222	260	15
CDK-50※※-3	350	425	755	330	65	140	177	260	4	200	50	120	155	200	165	65	16	186	222	260	222	260	15
CDK-50※※-5	350	425	795	330	65	140	177	260	4	238	50	120	155	200	180	65	16	186	222	260	222	260	15
CDK-65※※-5	350	425	795	370	78	150	190	260	8	238	65	140	177	200	180	65	16	186	222	260	222	260	15
CDK-65※※-7 1/2	350	425	865	440	78	150	190	260	8	273	65	140	177	200	240	65	20	186	300	355	300	355	18
CDK-65※※-10	350	425	865	440	78	150	190	260	8	273	65	140	177	200	240	65	20	186	300	355	300	355	18

※※: SK / SP

Construction



Part List

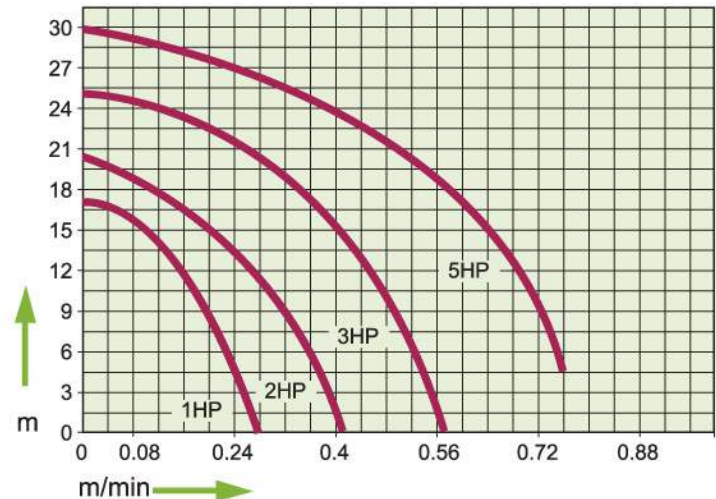
NO.	Description	Materials	NO.	Description	Materials
01	Motor	FC	11	Release Screw	PP
02	Shaft Pin	SUS	12	Front Cover Screw	SUS/TI
03	Liquid Seal Ceramic	FRPP	13	Impeller O-ring	NBR/VITON
04	Shaft O-ring	VITON	14	Impeller	FRPP/CFRPP/CPVC/PVDF
05	Liquid Seal	VITON	15	Impeller Nut O-ring	NBR/VITON
06	Shaft Sleeve Screw	SUS	16	Impeller Nut	FRPP/CFRPP/CPVC/PVDF
07	Shaft Sleeve	FRPP	17	Front Cover O-ring	NBR/VITON
08	Pump Body	FRPP/CFRPP/CPVC/PVDF	18	Front Cover	FRPP/CFRPP/CPVC/PVDF
09	Body Screw	SUS/TI	19	Air Release Valve	FRPP/CFRPP/CPVC/PVDF
10	Release Screw O-ring	VITON	20	Air Release Valve Packing	NBR/VITON/TEFLON



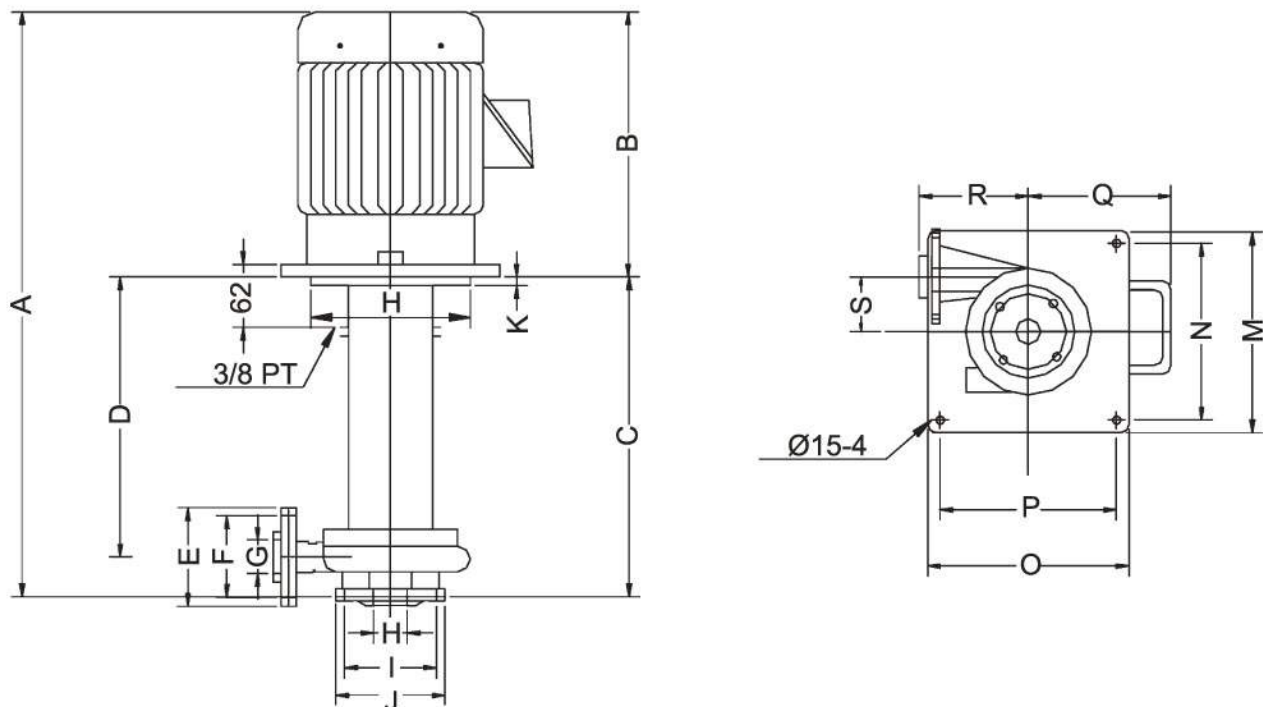
CPK Features and Benefits:

- All wet parts are stainless steel SUS 316, pumps can be used in high temperature liquid
- The efficiency of impeller is high
- Pumps is running without water
- O-ring are installed in front of bearing to prevent the acid air damage the bearing
- All impeller are dynamic balance to prevent vibrations
- Compact design can be installed in limited space

Performance Curve



Dimension



INSTALLATION DIMENSIONS															
TYPE	A	B	C	D	E	F	G	K	M	N	O	P	Q	R	S
CPS-40SK-1	680	297	385	338	97	80	38	5	260	222	260	222	170	103	70
CPS-40SK-2	736	341	395	344	120	98	50	5	260	222	260	222	185	103	85
CPS-50SK-3	734	341	391	343	144	123	50	5	260	222	260	222	190	105	80
CPS-50SK-5	798	378	419	345	150	124	75	5	260	222	260	222	205	152	105

