



CATALOG

YEAR 2025



VERTICAL CHEMICAL PUMP

MODEL : CD SERIES

HIGH EFFICIENCY
MOTOR IE3/IE4
Premium Quality

A NEW LEVEL OF PUMP PERFORMANCE
Expanded field of application owing
to improved corrosion resistance.



CHEMICAL
INDUSTRY



POLLUTION
PROCESS



SEMICONDUCTOR



AUTO-PART
INDUSTRY

Expert In Dry Running Chemical
Vertical Pumps

Service Life Of More Than 10 Years

The output pressure is stable
Without bubbles
Super quiet and low fault

Series Model — 50Hz — 60Hz

Main material	Model	Max.flow (L/min)										Max.head (m)								Parameters apply to specific gravity range
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5	10	15	20	25	30	35	40	
GFRPP/CFRPP/PVDF/CFRTE		233										12								<1.2
		230										13								
		283										16								
		283										17								
		316										19								
		330										23								
		483										18								
		450										19								
		633										26								
		583										27								
		683										25								
		625										24								
		733										28								<1.2
		666										31								
		833										35								
		775										40								
		1366										23								
		1166										21								
		1650										35								
		1450										35								
		4500										30								<1.2
		4350										32								
		5000										41								<1.2
		4800										43								

• Medium temperature: 0 °C~+120 °C, medium specific gravity: 1-2, working environment temperature: -5 °C~+50 °C, maximum operating altitude: 2000m, maximum working pressure: 10Bar.

Test basis: The above performance data corresponds to the normal speed of transportation of clean water at 25 °C. The performance error is ± 5%. The performance of a pump varies with the specific gravity and temperature of the fluid medium being transported.

CD SERIES - Explode View



Product Features

1. Can do dry running without damage.
2. The sealing of impeller and shaft are a dual convex line structure, which prevents the shaft from corroding.
3. The special liquid seal structure design overcomes the defects of liquid leakage and air leakage.
4. The new impeller and new flow channel design ensure smooth flow output, and almost no air bubbles are generated in the transported liquid.
5. Pump head have four materials of GFRPP,CFRPP,PVDF,and CFRETFE to choose from, not afraid of a variety of corrosive liquids.
6. The material selection of motor shaft is wide.
7. The motor brand offers a wide range of choices, and the voltage and frequency are highly compatible.
8. Vibration is less than 2mm/s and noise is less than 70 dB.



Product Specification List

Model	Inlet and outlet caliber (mm)	Power (HP)	Power (KW)	Max. Head		Max. Flow				Weight (kg)
				50Hz	60Hz	50Hz		60Hz		
						(L/min)	(m³/h)	(L/min)	(m³/h)	
CD-40SK-1	50/40	1	0.75	12	13	233	14	230	13.8	23.3
CD-40SK-2	50/40	2	1.5	16	17	283	17	283	17	26.8
CD-40SK-3	50/40	3	2.2	19	23	316	19	330	19.8	27.6
CD-50SK-3	65/50	3	2.2	18	19	483	29	450	27	28.8
CD-50SK-5	65/50	5	4	26	27	633	38	583	35	40.6
CD-65SK-5	80/65	5	4	25	24	683	41	625	37.5	40.5
CD-65SK-7.5	80/65	7.5	5.5	28	31	733	44	666	40	58.3
CD-65SK-10	80/65	10	7.5	35	40	833	50	775	46.5	61.8
CD-100SK-10	100/100	10	7.5	23	21	1366	82	1166	70	63.7
CD-100SK-15	100/100	15	11	35	35	1650	99	1450	87	73.5
CD-125SK-20	125/125	20	15	30	32	4500	270	4350	261	135.8
CD-125SK-30	125/125	30	22	41	43	5000	300	4800	288	175.7

• Medium temperature: 0 ℃~+120 ℃, medium specific gravity: 1~2, working environment temperature: -5 ℃~+50 ℃, maximum operating altitude: 2000m, maximum working pressure: 108bar. Test basis: The above performance data corresponds to the normal speed of transportation of clean water at 25 ℃. The performance error is ± 5%. The performance of a pump varies with the specific gravity and temperature of the fluid medium being transported.

CD-40SK-1 / 40SK-2 / 40SK-3 / 50SK-3 50SK-5 / 65SK-5 / 65SK-7.5 / 65SK-10 100SK-10 / 100SK-15 / 125SK-20 / 125SK-30

● Max.Flow: 230-5000 L/min

● Max.Head: 12-43 m



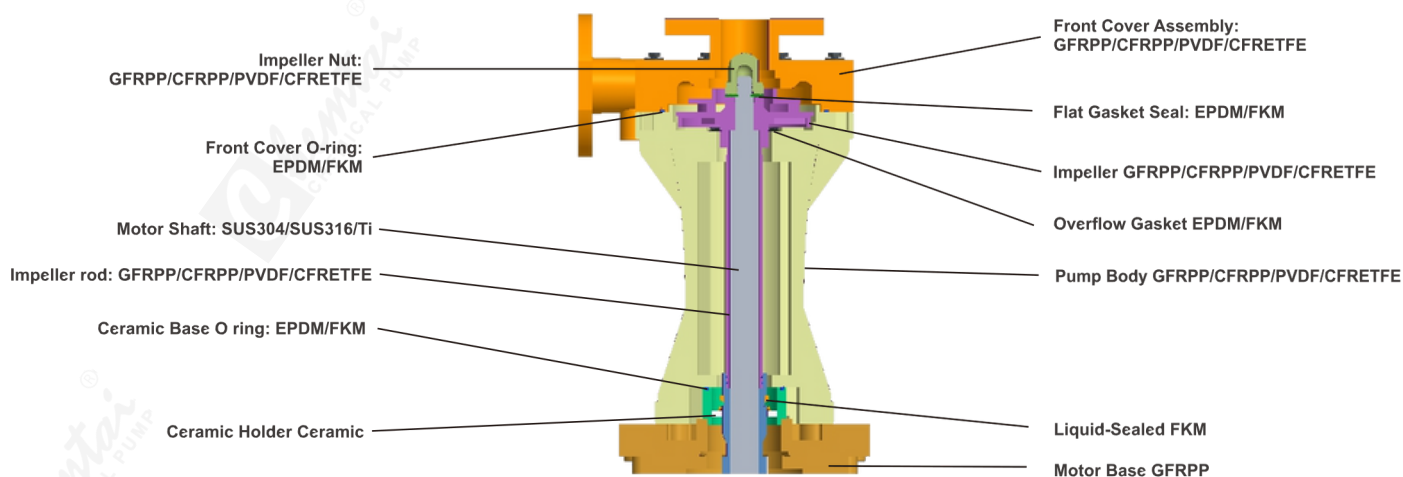
Model Description

CD - 65 - SK - 7.5 - 5 - V - G - V38 - G - A - A - S

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

- ① Model : CD
- ② Outlet caliber: 40-1.5"; 50-2"; 65-2.5"; 100-4"; 125-5"
- ③ Specific gravity of liquid: SK-1.0-1.2; SB-1.3; SC-1.4; SD-1.5; SE-1.6; SF-1.7; SG-1.8; SH-1.9; SI-2.0
- ④ Power: 1-1HP; 2-2HP; 3-3HP; 5-5HP; 7.5-7.5HP; 10-10HP; 15-15HP; 20-20HP; 30-30HP
- ⑤ Frequency: 5-50HZ; 6-60HZ
- ⑥ Sealing material: E-EPDM; V-FKM
- ⑦ Pump body material: G-GFRPP; C-CFRPP; P-PVDF; E-CFRETFE
- ⑧ Voltage: V38-30/380V; V41-30/415V; V44-30/440V; V48-30/480V; V66-30/660V; V32-30/220V
- ⑨ Motor brand: G-Kingdom; K-Kailida; Q-Other
- ⑩ Motor Requirements: A-IE3 Normal Motor; B-IE4 Normal Motor; C-IE5 Normal Motor; D-Variable Frequency Motor; E-IE3, BT4 Ex-Proof Motor; F-IE4, BT4 Ex-Proof Motor; G-IE5, BT4 Ex-Proof Motor; H-IE3, CT4 Ex-Proof Motor; I-IE4, CT4 Ex-Proof Motor; J-IE5, CT4 Ex-Proof Motor; K-Permanent magnet variable frequency motor; L-BT4 Ex-Proof Variable Frequency Motor; M-CT4 Ex-Proof Variable Frequency Motor
- ⑪ Motor protection level: A-IP54; B-IP55; C-IP56; D-IP65
- ⑫ S-Standard; N-Non-Standard

Structure Drawing And Material



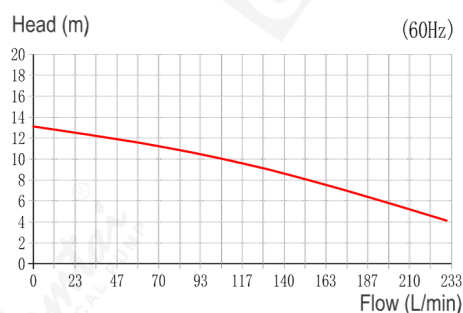
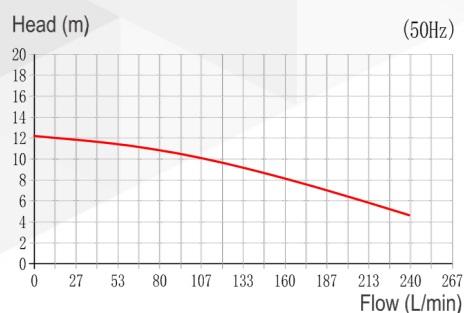
CD-SERIES

CORROSION-RESISTANT PLASTIC VERTICAL CHEMICAL PUMP

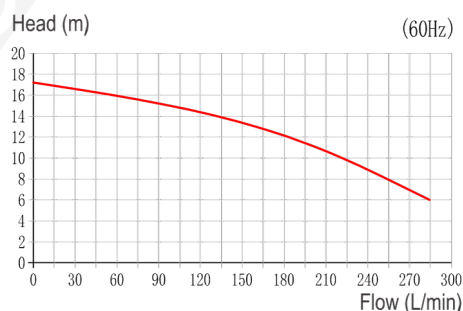
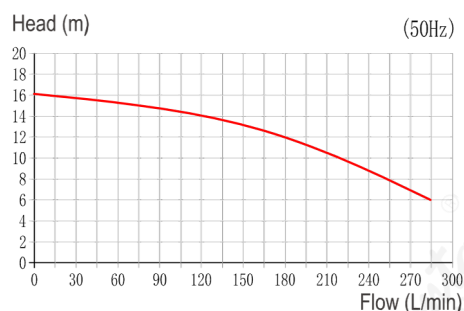
Performance Curve - CD Series



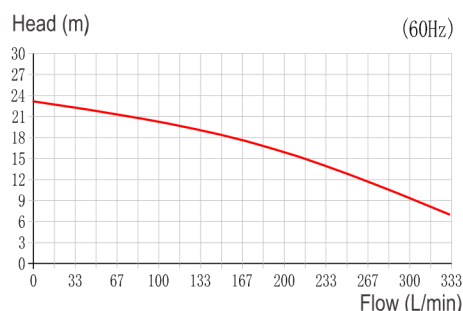
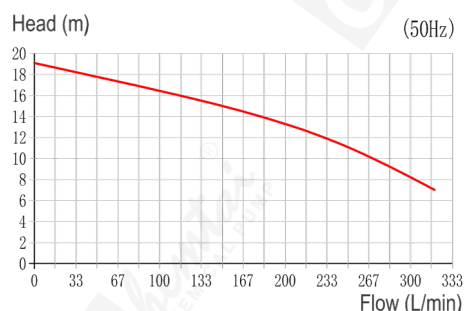
CD-40SK-1 Performance Curve



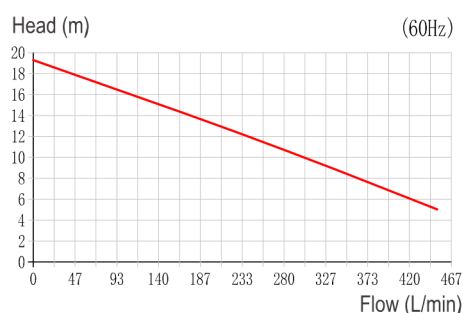
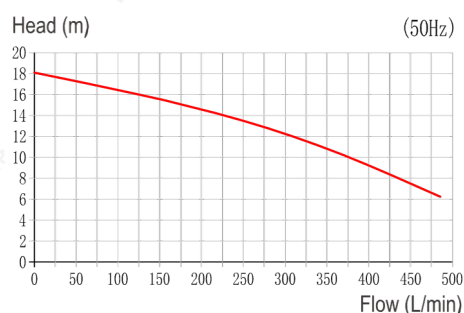
CD-40SK-2 Performance Curve



CD-40SK-3 Performance Curve

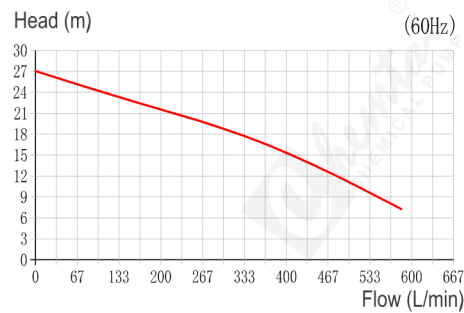
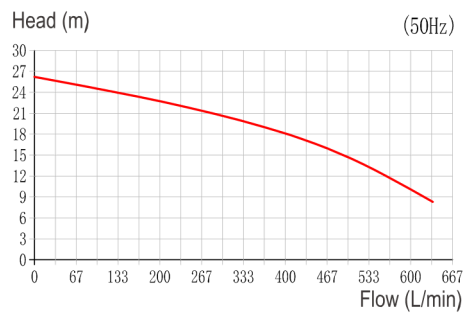


CD-50SK-3 Performance Curve

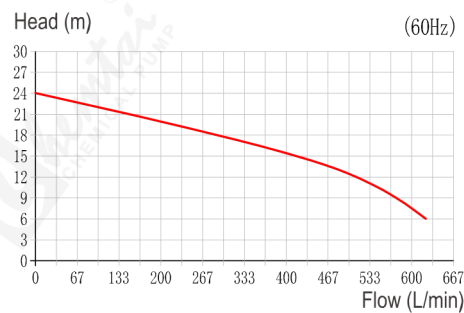
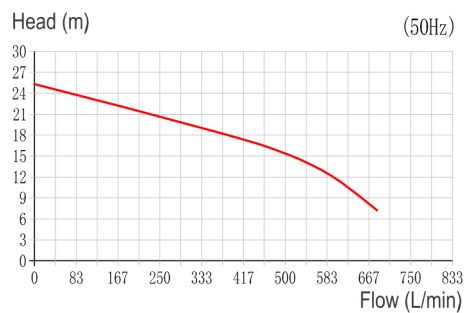


Performance Curve - CD Series

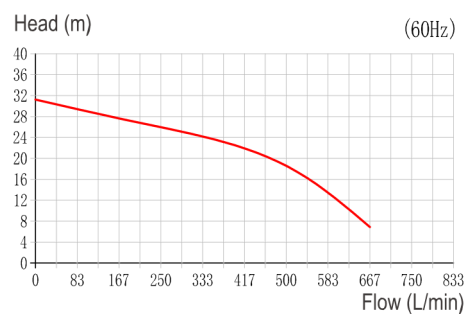
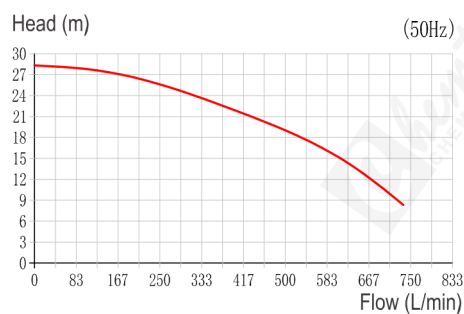
CD-50SK-5 Performance Curve



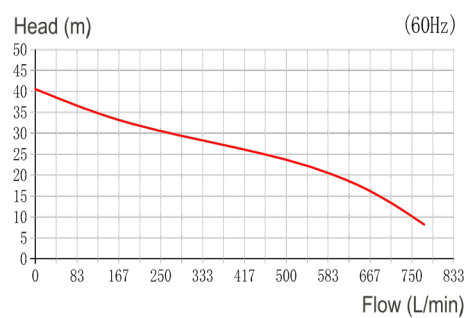
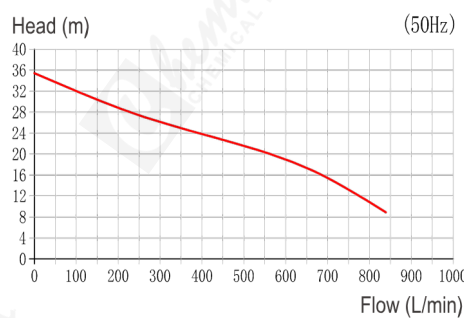
CD-65SK-5 Performance Curve



CD-65SK-7.5 Performance Curve

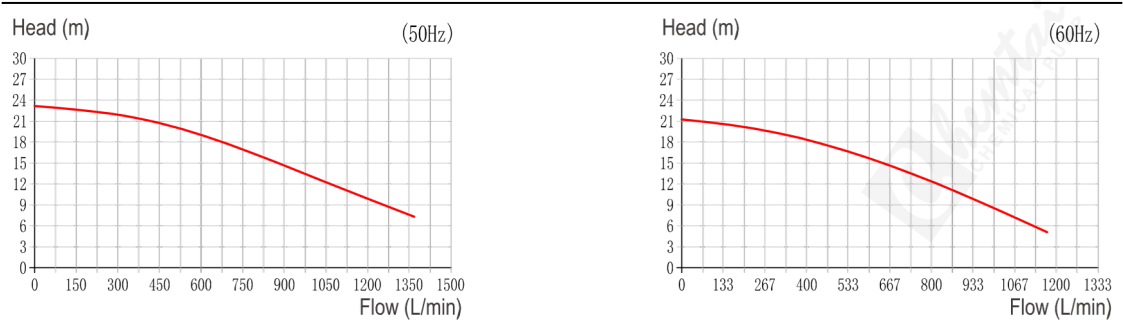


CD-65SK-10 Performance Curve

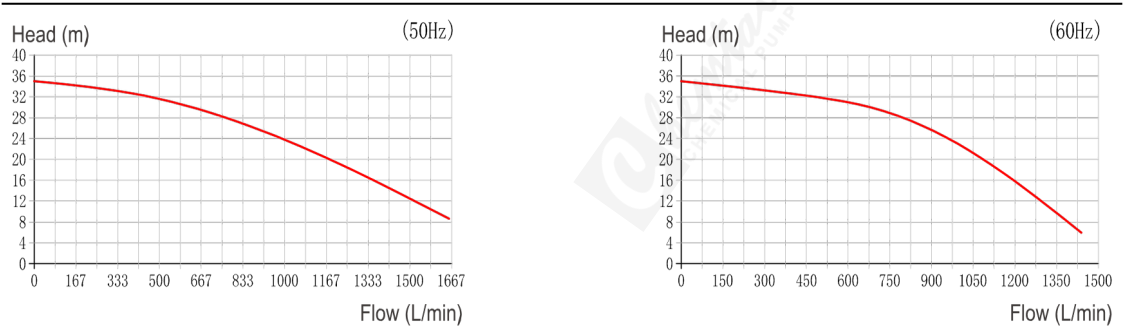


Performance Curve - CD Series

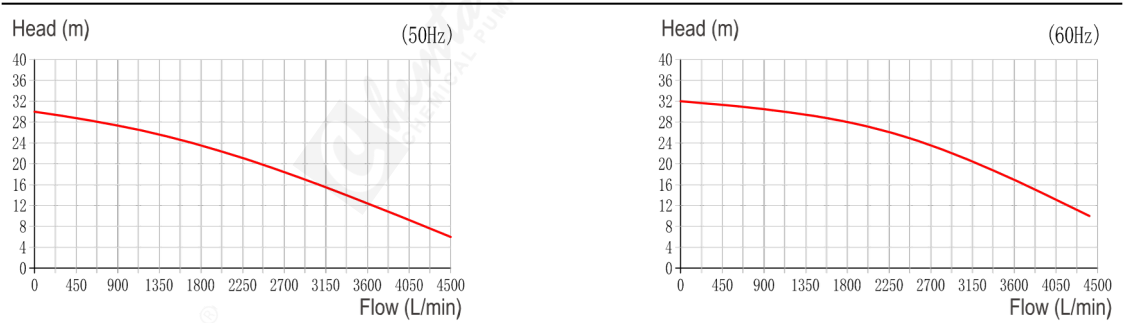
CD-100SK-10 Performance Curve



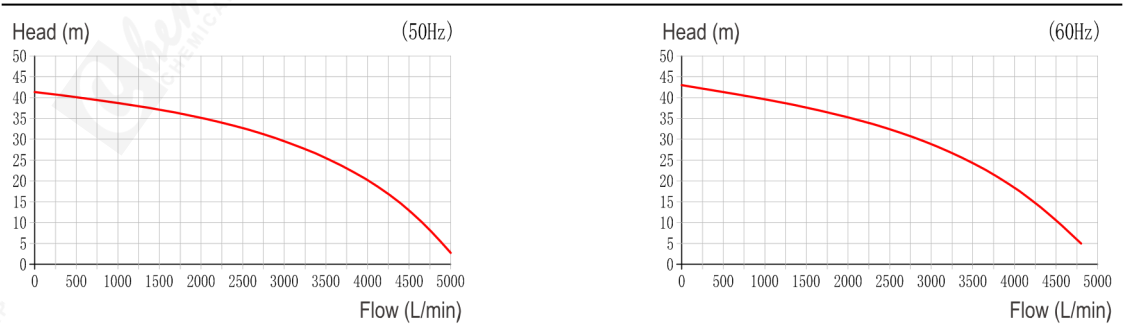
CD-100SK-15 Performance Curve



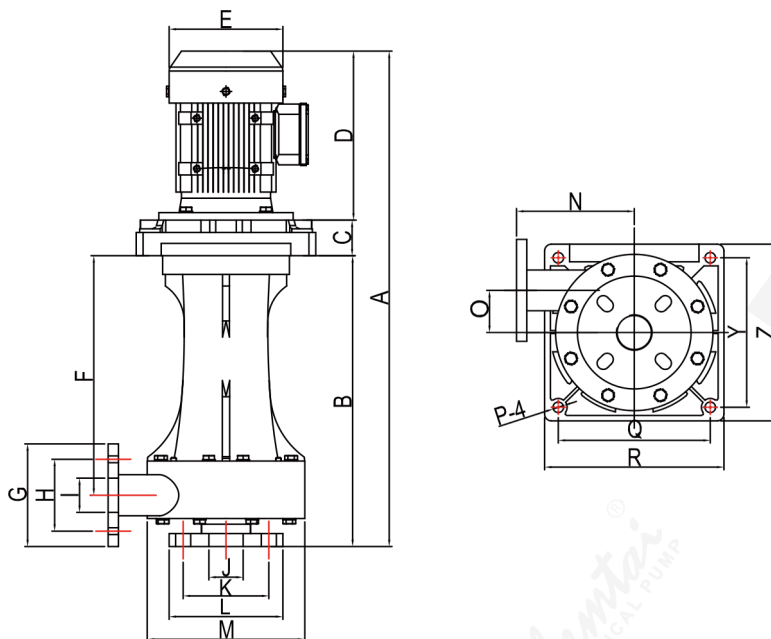
CD-125SK-20 Performance Curve



CD-125SK-30 Performance Curve



Size Drawing - CD Series

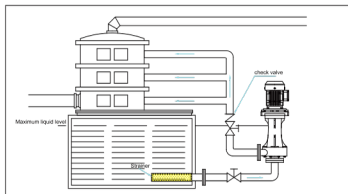


Model	40SK-1	40SK-2	40SK-3	50SK-3	50SK-5	65SK-5	65SK-7.5	65SK-10	100SK-10	100SK-15	125SK-20	125SK-25	125SK-30
A	718	763	765	770	817	817	875	875	883	929	974	1064	1094
B	421	421	421	426	426	426	426	426	434	434	393.5	393.5	393.5
C	52	52	52	52	52	52	52	52	52	52	130.5	130.5	130.5
D	245	290	292	292	339	339	397	397	397	443	450	540	570
E	Ø165	Ø165	Ø165	Ø220	Ø258	Ø258	Ø258	Ø258	Ø258	Ø258	Ø260	Ø311	Ø355
F	355.5	355.5	355.5	350	350	352	352	352	355	355	315	315	315
G	Ø151	Ø151	Ø151	Ø152	Ø152	Ø175	Ø175	Ø175	Ø209	Ø209	Ø250	Ø250	Ø250
H	Ø105	Ø105	Ø105	Ø117	Ø117	Ø135	Ø135	Ø135	Ø174	Ø174	Ø204	Ø204	Ø204
I	Ø36	Ø36	Ø36	Ø52	Ø52	Ø66	Ø66	Ø66	Ø98	Ø98	Ø100	Ø100	Ø100
J	Ø50	Ø50	Ø50	Ø61	Ø61	Ø76	Ø76	Ø76	Ø100	Ø100	Ø100	Ø100	Ø100
K	Ø121	Ø121	Ø121	Ø135	Ø135	Ø146	Ø146	Ø146	Ø173	Ø173	Ø204	Ø204	Ø204
L	Ø155	Ø155	Ø155	Ø174	Ø174	Ø188	Ø188	Ø188	Ø208	Ø208	Ø250	Ø250	Ø250
M	Ø228	Ø228	Ø228	Ø258	Ø258	Ø259	Ø259	Ø259	Ø288	Ø288	Ø315	Ø315	Ø315
N	168	168	168	202	202	202	202	202	218	218	231	231	231
O	63	63	63	69	69	71	71	71	70	70	126	126	126
P	Ø15	Ø15	Ø15	Ø15	Ø15	Ø17	Ø17	Ø17	Ø17	Ø17	Ø18	Ø18	Ø18
Q	222	222	222	222	222	222	305	305	304	304	300	300	300
R	263	263	263	263	263	263	351	351	351	351	350	350	350
Y	222	222	222	222	222	222	305	305	304	304	300	300	300
Z	263	263	263	263	263	263	351	351	351	351	350	350	350
Weight (kg)	23.3	26.8	27.6	28.8	40.6	40.5	58.3	61.8	63.7	73.5	135.6	158.8	175.7

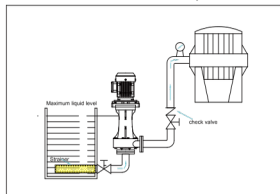
•Note: This is the dimensions of GFRPP material.

Installation Instruction

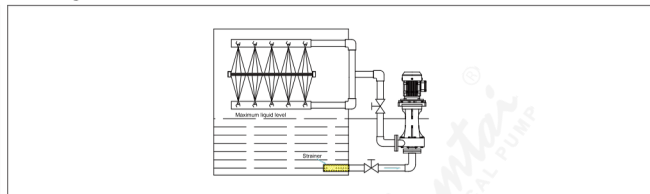
Used in wet scrubber



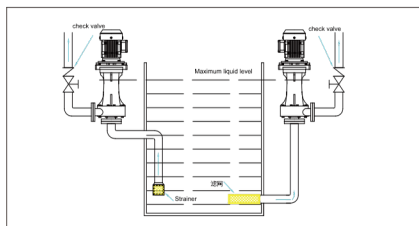
For reaction tank or filter compressor



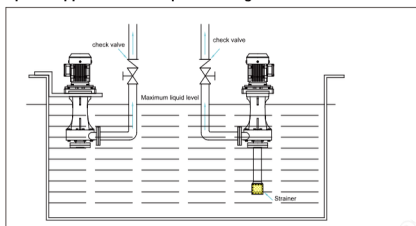
For etching



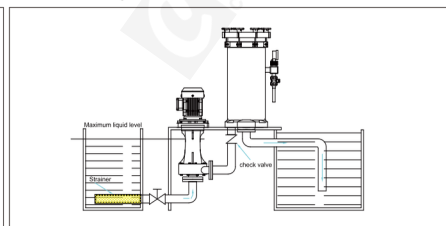
Installed outside the barrel



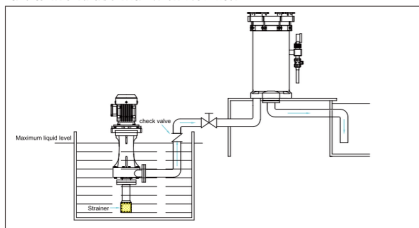
Special applications for liquid exchange



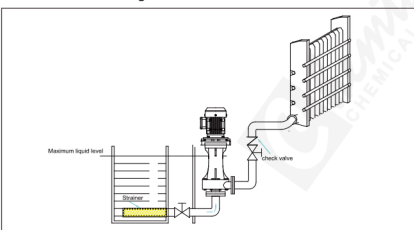
The pump is designed to run outside the tank and use with chemical filter.



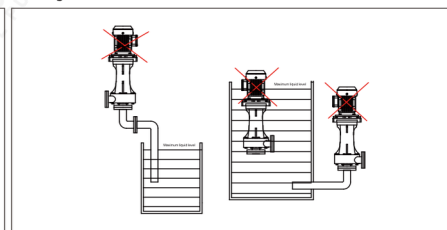
The pump is designed to run inside the tank and use with chemical filter



Used in heat exchangers



Warning: Incorrect use



Precautions For Installation And Operation

1. If the pump is used in chemical plant or environment with volatile gas, it is necessary to select the safe and explosion-proof BT4 or CT4 motor.
2. Filter screen shall be installed at the inlet pipe to prevent foreign matters from being inhaled, which may cause damage to the pump;
3. If the outlet pipe is higher than the motor, a check valve shall be installed at the highest point of the liquid level to prevent the motor from being damaged;
4. The mixing of different types of chemical solution may cause chemical reaction, even high heat, which may damage the
5. pump. Therefore, do not use the same pump to transport different chemical solutions.

CORROSION RESISTANCE CHART

Chemical Solution Name	Concentration %	Temperature °C	Body Material			Seal Material			Rubber Material		
			FRPP	CPVC	PVDF / GFR/ETFE	Ceramic	Carbon	Sic	NBR	EPDM	VITON
H₂SO₄ Sulfuric acid	30	40	×	●	●	●	●	●	●	●	●
		60	×	●	●	●	●	●	●	●	●
		80	×	○	●	●	●	●	●	○	●
		95			●	●	●	●			●
	60	40	×	●	●	●	●	●		●	●
		60	×	●	●	●	●	●		●	●
		80	×	△	●	●	●	●		○	●
		95			●	●	●	●			●
	98	40	×	○	●	●	●	●			●
		60	×	△	○	●	●	●			●
		80			●	●	●	●			●
		95			●	●	●	●			●
HCL Hydrochloric acid	25	40	●	●	●	○	●	●		●	●
		60	○	○	●	●	●	●		●	●
		80			●	●	●	●		○	●
	35	40	●	●	●	●	●	●		○	○
		60	○	○	●	●	●	●			
		80			●	●	●	●			
CrO₃ Chromic acid	20	40	×	○	●	●	●	●			●
		60		△	●	●	●	●			●
		80			●	●	●	●			○
HNO₃ Nitric acid	30	40	○	○	●	●	○	●			●
		60	×	△	●	●	○	●			●
		80	×	×	●	●	○	●			●
	50	40	△	○	●	●	○	●			●
		60	×	△	●	●	○	●			●
		80			●	●	○	●			●
H₃PO₄ Phosphoric acid	10	40	●	●	●	●	●	●	●	●	●
		60	●	●	●	●	●	●	○	●	●
		80	○	○	●	●	●	●		○	●
	50	40	●	●	●	●	●	●		●	●
		60	●	○	●	●	●	●		○	●
		80	△	△	●	○	●	●		○	●
NaOCl Sodium Hypochlorite	10	40	○	●	●	●	○	●			●
		60	○	○	●	●	△	●			●
		80	△		●	●	×	●			●
CH₃COOH Acetic acid	20	40	●	●	●	●	●	●			×
		60	●	○	●	●	●	●			×
		80	○	△	●	●	●	●			×
HF Hydrofluoric	30	40	×	○	●	×	○	●		●	
		60	×	△	●	×	○	●		●	
		80	×	×	●	×	○	●		○	
HNO₃ + HCl Aqua regia	3:1	40	×	△	●	●	×	●	×		○
		60	×	×	●	○	×	●	×		○
		80	×	×	●	●	×	●	×		●
H₂O₂ Hydrogen Peroxide	20	40	●	●	●	●	×	●	×		●
		60	●	○	●	●	×	●	×		●
		80	○	○	●	●	×	●	×		●
NaOH Sodium Hydroxide	45	40	●	○	●	●	×	●	●	●	○
		60	○	△	○	●	×	●	●	●	△
		80	○	×	×	●	×	●	○	○	△
FeCl₃ Ferric chloride	40	40	●	●	●	●	●	●	●	●	●
		60	●	●	●	●	●	●	○	●	●
		80	●	●	●	●	●	●	●	●	●
Cu(CN)₂ Copper Cyanide		40	●	●	●	△	●	●	●		●
		60	●	●	●	△	●	●	●		●
ZnCl₂ Zinc Chloride		40	●	●	●	●	●	●	●		●
		60	●	●	●	●	●	●	●		●
NiSO₄ Nickel Sulfate		40	●	●	●	●	●	●	●		●
		60	●	●	●	●	●	●	●		●

● : Excellent ○ : Good △ : Not Good × : Bad



A new level of pump performance.

Expanded field of application owing
to improved corrosion resistance.

