



CATALOG

YEAR 2025



VERTICAL CHEMICAL PUMP MODEL : QHA 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

High Cost-effective Long Service Life

Consistent pressure and a minimal failure rate.
Applicable to waste gas scrubber spraying in
the field of environmental protection.



Series Model

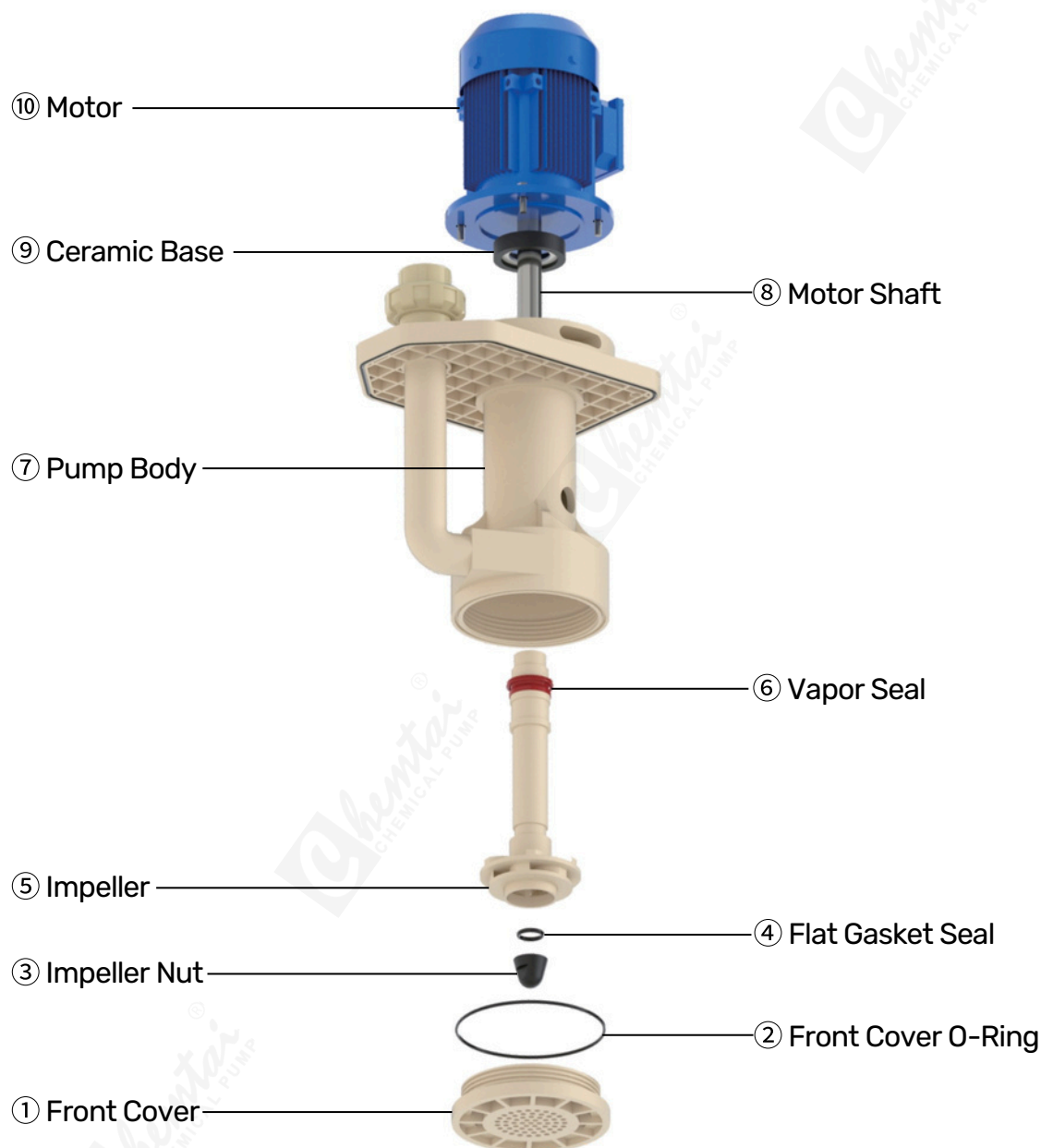
50Hz 60Hz

Main Material	Model	Max.Flow (L/min)						Max.Head (m)						Parameters Apply To Specific Gravity Range
		200	400	600	800	1000	1200	5	10	15	20	25	30	
GFRPP	QHA-40SK-1	295						9						<1.2
		267						8						
	QHA-40SK-2	358						13						
		355						13						
	QHA-40SK-3	425						17						
		397						17						
	QHA-40SK-5	527						22						
GFRPP		543						24						<1.2
	QHA-50SK-5	655						20						
		655						21						
	QHA-50SK-7.5	912						26						
GFRPP		845						24						<1.2
	QHA-50SK-10	955						31						
GFRPP		958						30						<1.2

• Medium Temperature: Room Temp. 0°C~+90°C, Specific Gravity: 1~2, Working Temperature: -5°C~+50°C, Maximum Altitude: 2000m, Maximum Working Pressure: 10Bar.

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

QHA Series Exploded View



I QHA Series 1HP-10HP

Dry Running Semi-submerged Vertical Pump

Product Feature

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 motor brand offers a wide range of choices, and the voltage and frequency are highly compatible.



Model Description

QHA - 40 - SK - 3 - 5 - E - G - V38 - K - A - B - S
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

- ① Model No.: QHA
② Outlet caliber: 40-1.5 "; 50-2 "
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: 1-1 HP; 2-2HP; 3-3HP; 5-5HP; 7.5-7.5 HP; 10-10HP
⑤ Frequency: 5-50HZ; 6-60HZ
⑥ Sealing material: E-EPDM; V-FKM
⑦ Pump body material: G-GFRPP
⑧ Voltage: V38-3Ø/380V; V41-3Ø/415V; V44-3Ø/440V; V48-3Ø/480v; V66-3Ø/660V; V32-3Ø/220V; V22-1Ø/220v
⑨ Motor brand: A-ABLE; 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

Product Specification List

Model	Outlet Caliber (mm)	Max. Flow/50Hz		Max. Flow/60Hz		Max. Head(m)		Power		Weight (kg)
		(L/min)	(m³/h)	(L/min)	(m³/h)	50Hz	60Hz	HP	KW	
QHA-40SK-1	40	295	17.7	267	16	9	8	1	0.75	20.2
QHA-40SK-2	40	358	21.5	355	21.3	13	13	2	1.5	24.3
QHA-40SK-3	40	425	25.5	397	23.8	17	17	3	2.2	28.9
QHA-40SK-5	40	527	31.6	543	32.6	22	24	5.5	4	41
QHA-50SK-5	50	655	39.3	655	39.3	20	21	5.5	4	41.1
QHA-50SK-7.5	50	912	54.7	845	50.7	26	24	7.5	5.5	57.5
QHA-50SK-10	50	995	59.7	958	57.5	31	30	10	7.5	61

• Medium temperature: 0℃~+80℃, medium specific gravity: 1-2, working environment temperature: -5℃~+50℃, maximum usage altitude: 2000m, maximum working pressure: 10Bar.

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.

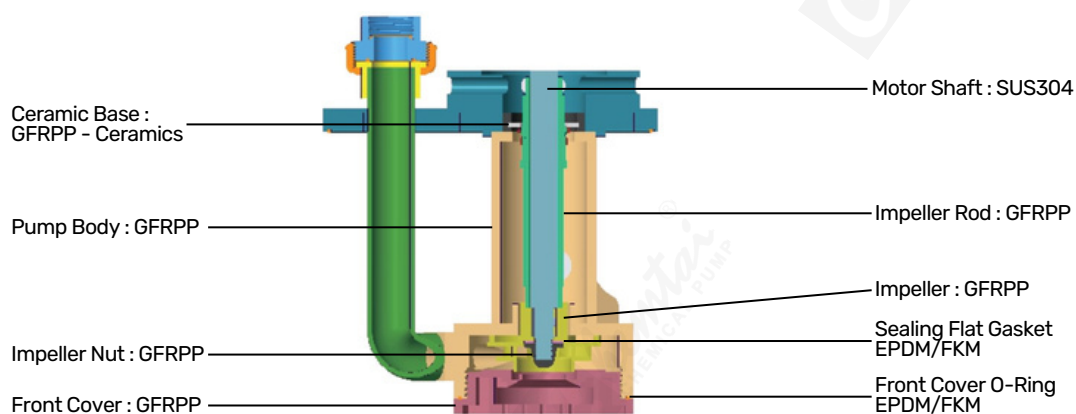
QHA - 40SK-1/40SK-2/40SK-3/40SK-5 50SK-50/50SK-7.5/50SK-10

● Max.Flow: 267-995 L/min

● Max.Head: 8-31 m

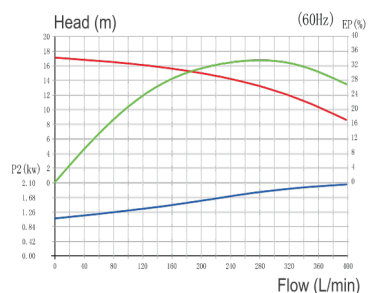
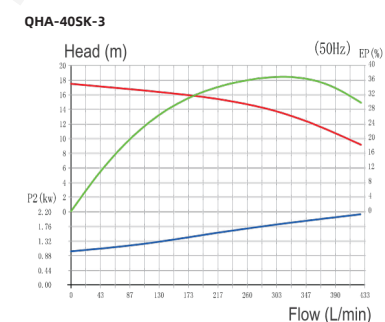
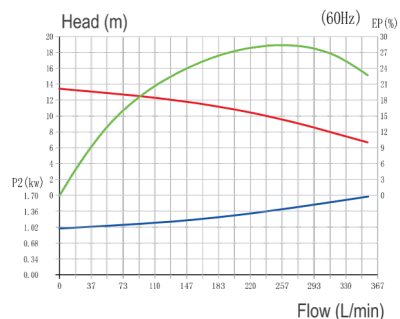
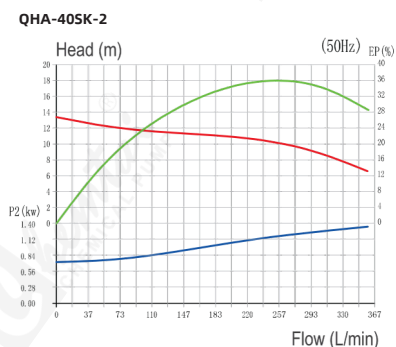
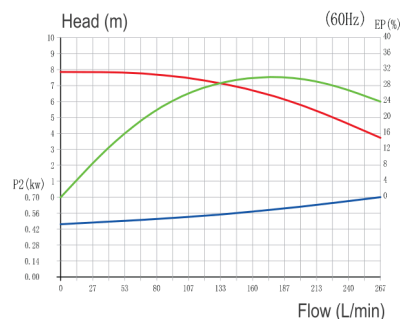
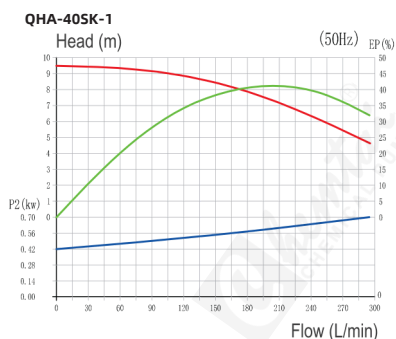


Structure Drawing And Material



Performance Curve

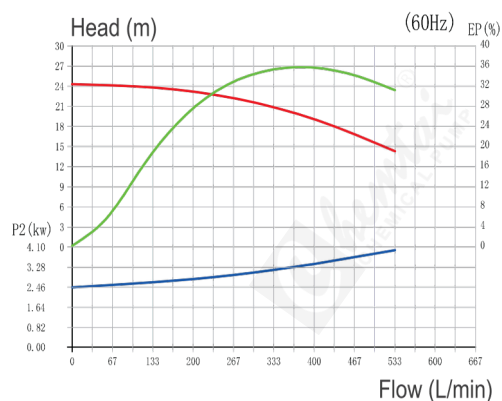
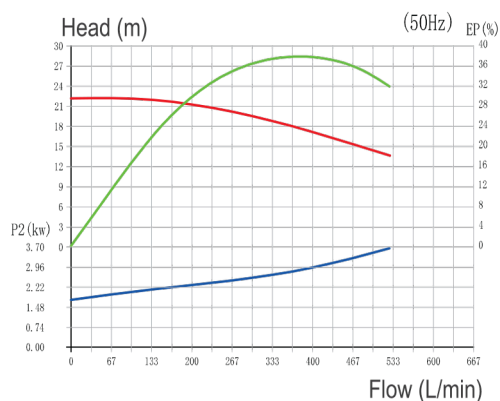
Head&Flow Efficiency Shaft Power



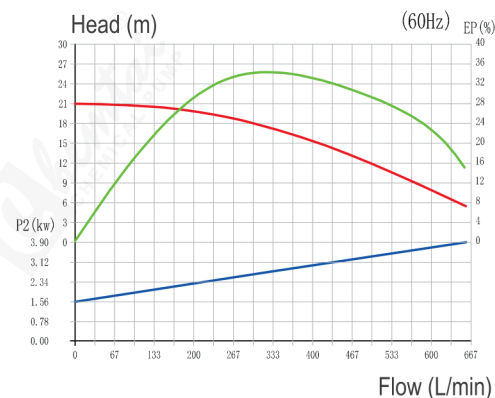
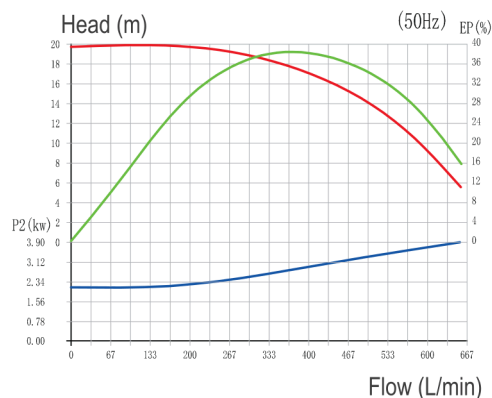
Performance Curve

Head&Flow Efficiency Shaft Power

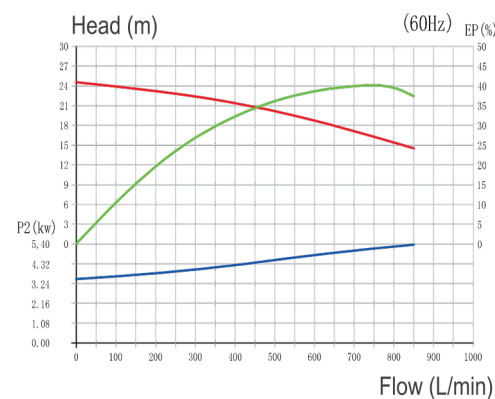
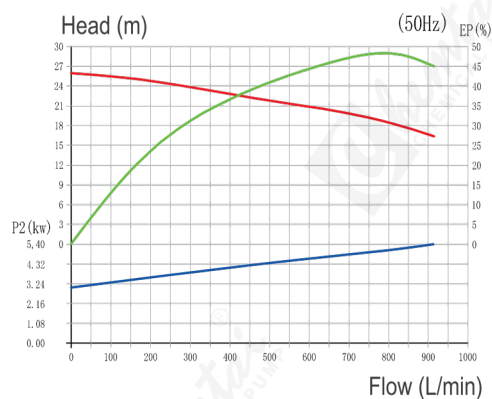
QHA-40SK-5



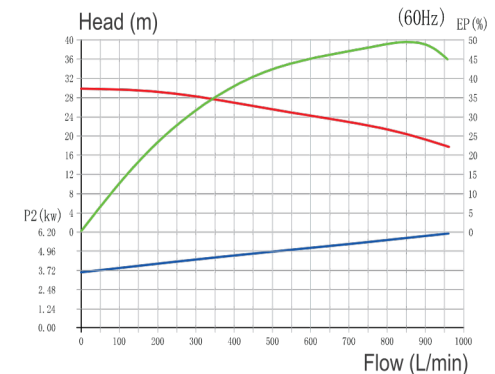
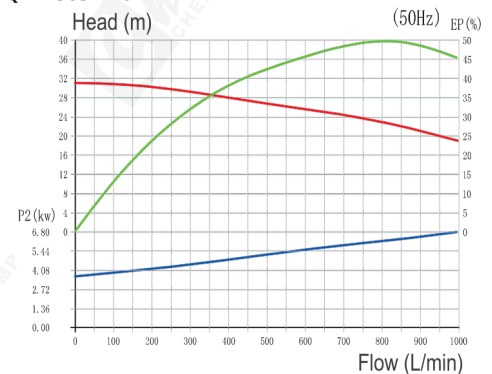
QHA-50SK-5



QHA-50SK-7.5

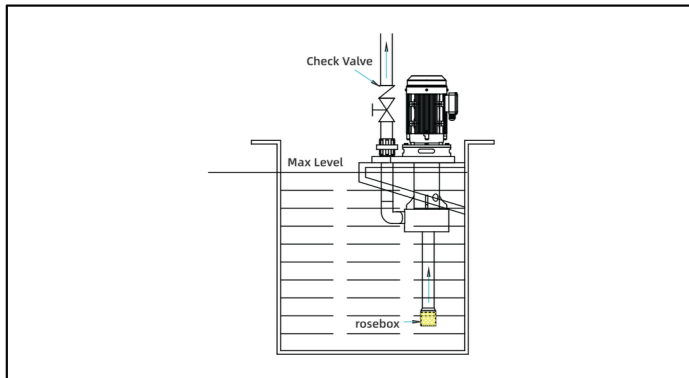


QHA-50SK-10

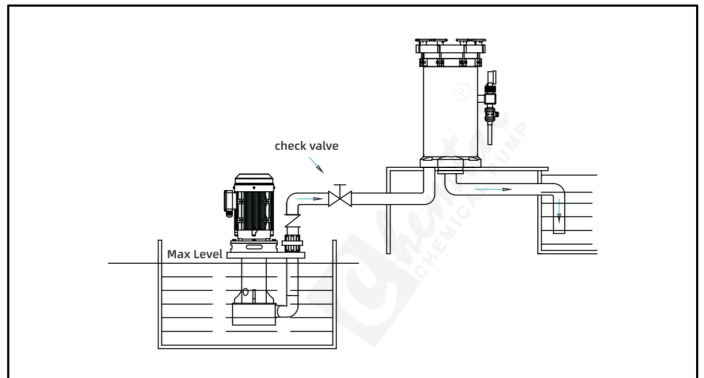


Installation Instruction

Installation instruction



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



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 Eg3 or D2g4 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 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 + 3HCl 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.

