Inside vertical pump

【QHA series】

Product specification

Model	Inlet and outlet diameter (mm) Inlet / outlet	Horsepower HP	Max.Head (m)		Max.Capacity (L/min)		Weight
			50HZ	60HZ	50HZ	60HZ	(kg)
QHA-32SK-1	40/32	1	19	19.5	200	160	17.8
QHA-32SK-2	40/32	2	24	25	290	290	20
QHA-40SK-2	50/40	2	22	24	380	400	25
QHA-40SK-3	50/40	3	28	29	400	400	35.1
QHA-50SK-5	50/40	5	30	30	560	560	40
QHA-50SK-7.5	65/50	7.5	39	37.5	600	600	60
QHA-50SK-10	65/50	10	41	49.5	610	680	72

Model description

QHA—W—40—SK—3—5—E—F
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

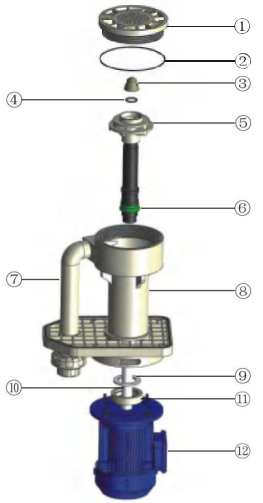
① Model No.: QHA
② Pump head: W: Hexagon plate elbow; Y: square plate straight out
③ Outlet diameter: 32-1.25" ; 40-1.5" ;50-2"
④ Specific gravity: SK-1.1 ;SP-1.4
⑤ Horsepower: 1-1HP ; 2-2HP ;3-3HP ;5-5HP ;7.5-7.5HP ;10-10HP
⑥ Frequency: 5:50HZ ;6:60HZ
⑦ O-Ring: E-EPDM ; V-VITON(FKM)
⑧ Pump material: F-FRPP; G-GFRPP; P-PVDF

Product characteristics

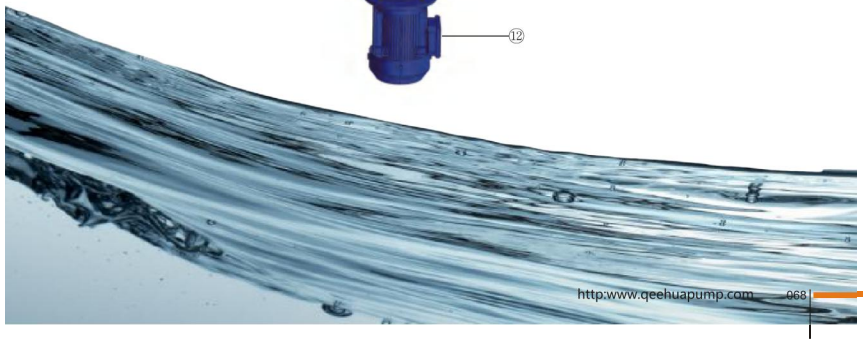
1. This pump adopts F-FRPP、G-GFRPP、P-PVDF plastic steel by virtue of injection molding, which can resist most of the chemical properties, with acid and alkali resistance;
2. Dry shaft seal is used in the pump, which can be used without damage during idling. The end cover of motor adopts the oil seal to ensure that the acid gas will not easily invade the motor bearing, so as to protect the motor and extend the service life of the motor;
3. It is suitable for all kinds of special occasions such as strong acid alkali liquid circulation, cooling, spray cleaning equipment, waste gas tower, etching machine, chemical plating, non-electrolytic nickel, etc;
4. SUS304 and titanium shafts can be selected as motor shafts, which are directly formed from the inside of the motor through special technology to ensure the concentricity and durability of the motor shafts in normal operation;
5. It is suitable for installation in slot and can be used in combination with connector.

Product superiority

1. F-FRPP、G-GFRPP and P-PVDF materials are used, which is resistant to various corrosive liquids such as strong sulfuric acid, hydrochloric acid and sodium hydroxide, with high temperature resistance of 70℃-95℃, high pressure resistance and no cracking;
2. The pump head and the body are injection molded by virtue of mould, which is durable and corrosion-resistant, reducing the probability of leakage;
3. Filter device is installed at the inlet to prevent sundries from entering the pump and damaging the pump;
4. It is equipped with high-end foreign brand motors, with high efficiency and low noise;
5. The pump shaft is integrated with motor and rotor to ensure the accuracy and stability of operation.

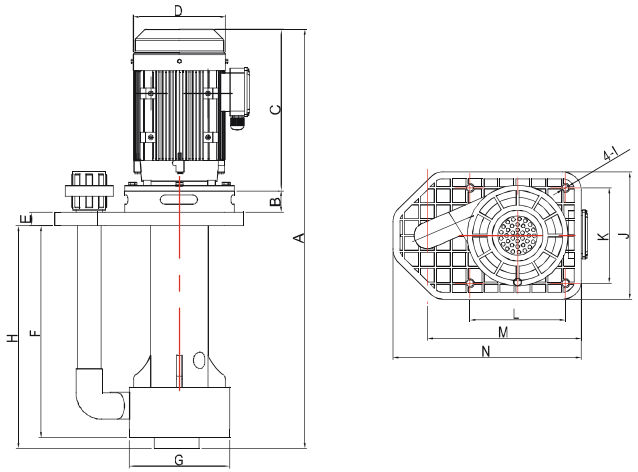


① Front cover
② Seal O-ring
③ Impeller nut
④ Nut O-ring
⑤ Impeller
⑥ Vapor seal
⑦ Outlet
⑧ Pump body
⑨ Ceramics
⑩ Motor shaft key
⑪ Ceramic base
⑫ Motor



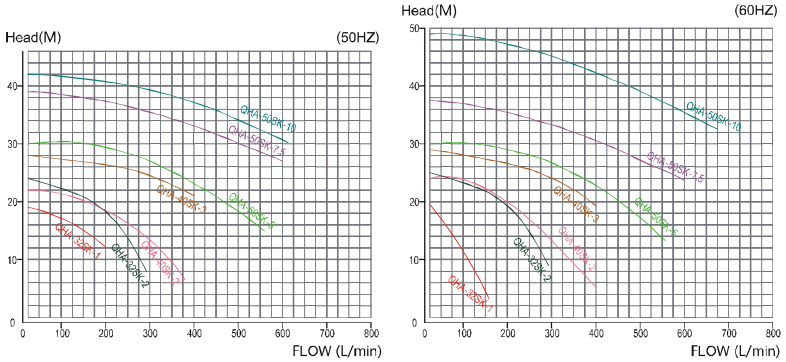
✆400-8558-745

Size specification



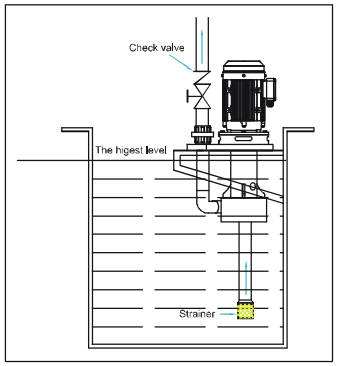
Model	A	B	C	D	E	F	H	G	I	J	K	L	M	N
QHA-32SK-1	732	35	238	∅158	26	413	433	∅182	∅12	270	200	210	333	390
QHA-40SK-1	732	35	238	∅158	26	413	433	∅182	∅12	270	200	210	333	390
QHA-40SK-2	774	35	280	∅175	26	413	433	∅182	∅12	270	200	210	333	390
QHA-40SK-3	774	35	280	∅175	26	413	433	∅182	∅12	270	200	210	333	390
QHA-40SK-5	818	35	324	∅218	26	413	433	∅182	∅12	270	200	210	333	390
QHA-50SK-7.5	851	35	356	∅234	31	409	429	∅244	∅10	343	283	303	401	473
QHA-50SK-10	891	35	396	∅230	31	409	429	∅244	∅10	343	283	303	401	473

QHA Performance curve

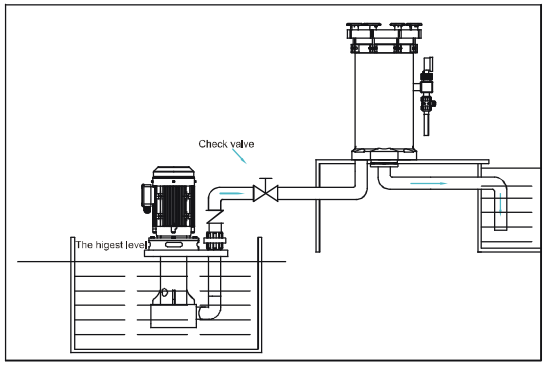


Installation diagram

Installed inside the barrel

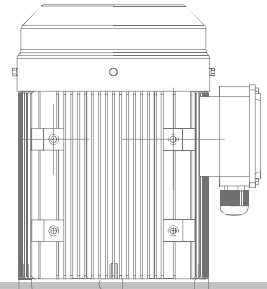


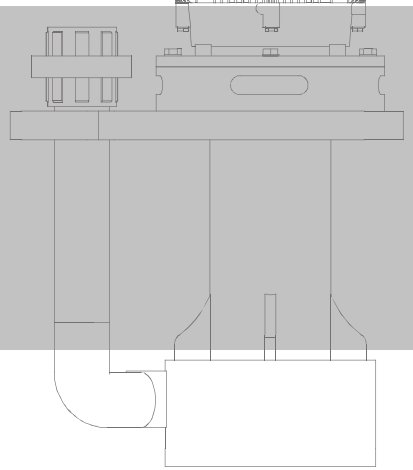
The pump is installed in the barrel and used with the filter



Attentions for installation

1. If it 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.





Accessories

Y-type filter

Dual-union ball valve

Union connector

Union ball valve

✆400-8558-745

Attached table: list of drug resistance

Drug name	%	°C	Material of pump head				Material of shaft seal			Rubber material	
	Concentration	Temperature	GFRPP	CFRPP	PVDF	CFRETFE	Ceramic	Carbon	Ssic	EPDM	VITON
Hydrochloride HCL	15	40	●	●	●	●	○	●	●	●	●
		60	●	●	●	●	●	●	●	●	●
		80	○	○	●	●	●	●	●	○	●
	32	40	●	●	●	●	●	●	●	○	○
		60	●	●	●	●	●	●	●		
		80	○	○	●	●	●	●	●		
Hydrogen peroxide solution H_2O_2	10	40	●	●	●	●	●	×	●		●
		60	○	○	●	●	●	×	●		●
		80	×	×	●	●	●	×	●		●
Phosphoric acid H_3PO_4	25	40	●	●	●	●	●	●	●	●	●
		60	●	●	●	●	●	●	●	●	●
		80	○	○	●	●	●	●	●	○	●
	50	40	●	●	●	●	●	●	●	●	●
		60	●	●	●	●	●	●	●	○	●
		80	○	○	●	●	○	○	●	○	●
Sodium hypochlorite NaClO	10	40	○	○	●	●	●	○	●		●
		60	△	△	●	●	●	△	●		●
		80	×	△	●	●	●	×	●		●
Acetic acid CH_3COOH	25	40	●	●	●	●	●	●	●		×
		60	●	●	●	●	●	●	●		×
		80	○	○	●	●	●	●	●		×
Hydrofluoric acid HF	25	40	×	●	●	●	×	○	●	●	●
		60	×	○	●	●	×	○	●	●	●
		70	×	×	●	●	×	○	●	○	●
Aqua regia $HCL+HNO_3$	3:1	40	×	×	●	●	●	×	●		○
		60	×	×	●	●	○	×	●		○
		80	×	×	●	●		×	●		●
Chromic acid CrO_3	20	40			●	●	●				●
		60			●	●	●				●
		80			●	●	●				○
Sulphuric acid H_2SO_4	30	40	●	●	●	●	●	●	●	●	●
		60	●	●	●	●	●	●	●	●	●
		80	●	●	●	●	●	●	●	○	●
		95			●	●	●	●	●		●
	60	40	●	●	●	●	●	●	●	●	●
		60	●	●	●	●	●	●	●	●	●
		80	○	○	●	●	●	●	●	○	●
		95			●	●			●		●
	98	40			●	●	●		●		●
		60			○	●	●		●		●
Sodium hydroxide NaOH	45	40	●	●	●	●	△	●	●	●	○
		60	○	○	○	●	×	●	●	●	△
		80	○	○	×	●	×	●	●	○	△
Ferric chloride $FeCl_3$		40	●	●	●	●		●	●	●	●
		60	●	●	●	●		●	●	●	●
		80	●	●	●	●		●	●	●	●
Cupric cyanide $Cu(CN)_2$		40	●	●	●	●	△	●	●		●
		60	●	●	●	●	△	●	●		●
		80			●	●			●		
Zinc chloride $ZnCl_2$		40	●	●	●	●	●	●	●		●
		60	●	●	●	●	●	●	●		●
Nickel sulfate $NiSO_4$		40	●	●	●	●	●	●	●		●
		60	●	●	●	●	●	●	●		●
Nitric acid HNO_3	20	40	●	●	●	●	●		●		●
		60	○	○	●	●	○		●		●
		80	○	○	●	●			●		●
	50	40	●	●	●	●			●		●
		60	○	○	●	●			●		●

● Outstanding ○ Good △ Fair × Poor