

Product characteristics

1. Resistant to strong acid, strong alkali and fluorinated substances.
2. Reinforced rear cover, with significantly enhanced temperature and pressure resistance.
3. Applicable temperature: GFRPP - below 80 °C, PVDF - below 100 °C. The applicable temperature shall be determined according to different chemical properties.
4. Equipped with anti-idling device
5. It has no self-priming capacity and is suitable to be installed below the liquid level. If it is installed above the liquid level, a self-priming barrel must be installed to prevent the pump from being damaged due to idling operation.

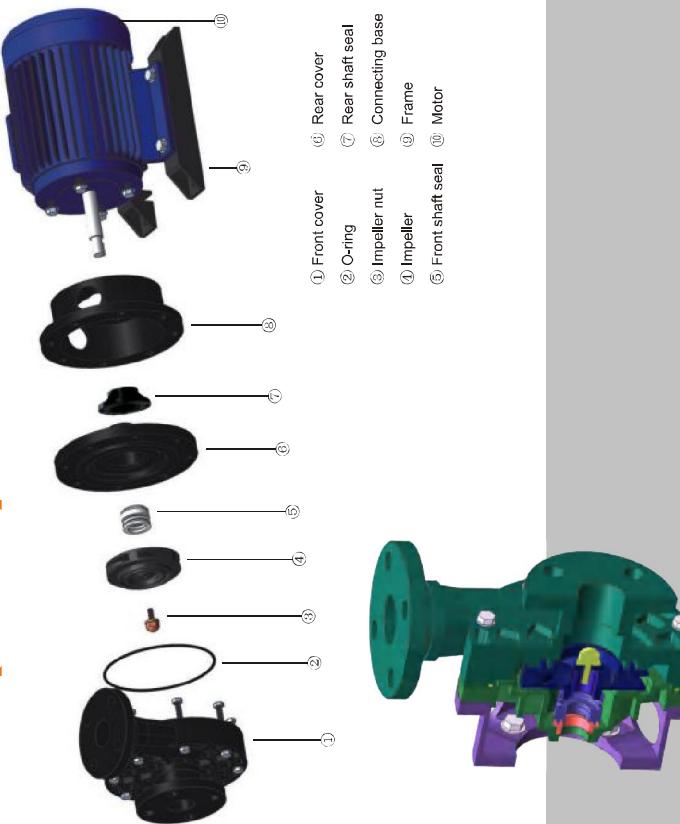
Product superiority

1. It is applicable to the transportation and circulation of chemical solution with particles and impurities.
2. It is resistant to strong acid, alkali and corrosion. The materials include GFRPP, CFRPP and PVDF (Teflon).
3. Equipped with exhaust valve switch, the air in the pump and pipeline can be discharged smoothly during operation, so as to prevent the damage of shaft seal caused by air accumulation.

Model description

QH_G-50-05-2-V-H-S-H-5

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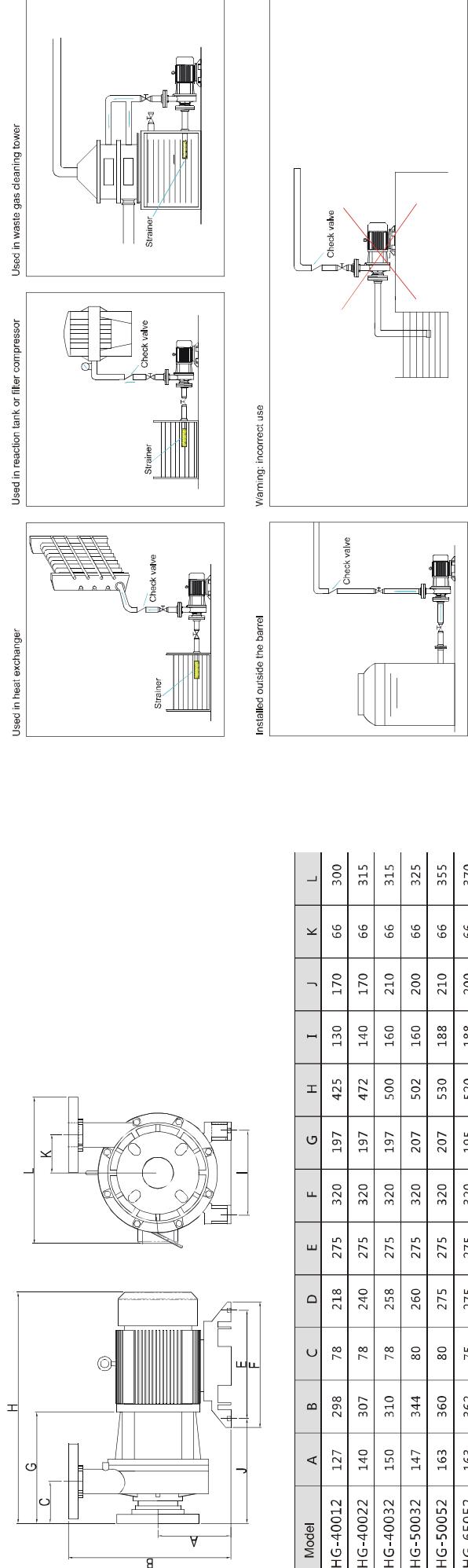


Plastic centrifugal pump [QHG series]

Product specification

| Model | Inlet and outlet diameter (mm) | | Power | 50Hz Max Head (M) | 60Hz Max Head (M) | Weight (Kg) |
|------------|--------------------------------|--------|-------|-------------------|-------------------|-------------|
| | Inlet | Outlet | | | | |
| QHG-40012 | 50 | 40 | 3Ø | 1 | 15 | 250 |
| QHG-40022 | 50 | 40 | 3Ø | 2 | 17 | 320 |
| QHG-40032 | 50 | 40 | 3Ø | 3 | 25 | 400 |
| QHG-50032 | 65 | 50 | 3Ø | 3 | 25 | 530 |
| QHG-50052 | 65 | 50 | 3Ø | 5 | 28 | 635 |
| QHG-65052 | 80 | 65 | 3Ø | 5 | 19.5 | 880 |
| QHG-65072 | 80 | 65 | 3Ø | 7.5 | 24 | 930 |
| QHG-65102 | 80 | 65 | 3Ø | 10 | 29 | 950 |
| QHG-100102 | 100 | 100 | 3Ø | 10 | 27.5 | 1180 |
| QHG-100152 | 100 | 100 | 3Ø | 15 | 30 | 1490 |

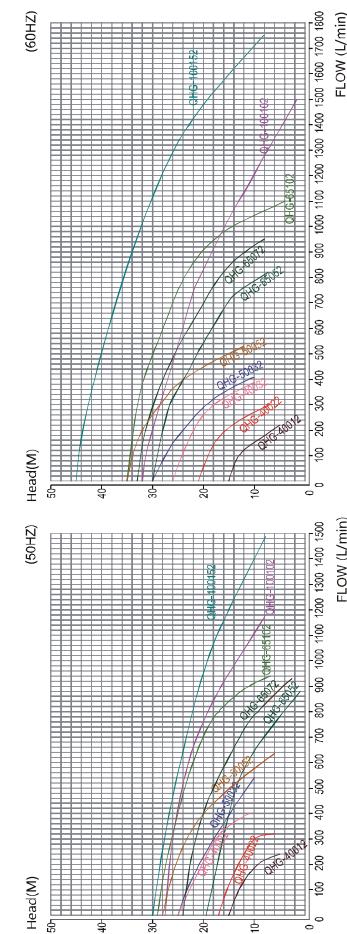
Size specification



Attenions:

- The pump shall be installed on a solid horizontal ground and kept stable. The pump inlet and outlet shall be equipped with valves for maintenance.
- Try to avoid installing the machine in the outdoor area. Outdoor pump shall be covered with a protective cover. If the pump is equipped with an electronic controller, safeguard procedures shall be adopted.
- The pump made of PVC material shall be protected from direct sunlight to prevent material embrittlement.
- Before piping, different pipe fitting materials shall be selected according to the chemical liquid used, temperature conditions and delivery head to meet the actual requirements. For example, if the temperature is above 60 °C, PP pipe fitting shall be selected for installation.
- When piping, it shall be noted that there shall be no impurities or debris left in the pipe. If necessary, clean the pipe with clean water.
- The flange joint shall be supplemented with gasket and locked to prevent air from being sucked into the pump.
- If metal material is employed, shockproof joint shall be installed in the pipeline at the pump inlet and outlet to prevent the flange at the inlet and outlet from being broken.
- When the pump conveying liquid exceeds a certain height, a check valve shall be installed at the outlet to prevent pump damage caused by back pressure.
- The safety drain valve shall be installed between the pump outlet and the first on-off valve. It's better to install a pressure gauge to detect the pressure in the pipe.
- Avoid suction of siphons and siphon effect, please add bottom valve (Ford valve).
- Check valve shall be installed near the pump inlet and outlet as far as possible, and F-point shall be employed when installing pressure gauge or safety discharge valve.
- When piping, pay attention that the pipeline shall not be forcibly twisted. After installation, check whether the pump body is distorted due to excessive force or incorrect installation method.
- After the machine is fixed, confirm whether it is firm, and rotate the motor fan to confirm whether the motor can rotate freely.
- Before connecting the power cord, confirm whether the selected power supply matches the motor model, and connect the over-current protection switch.
12. When piping, pay attention that the pipeline is not forcibly twisted. After installation, check whether the pump body is distorted due to excessive force or incorrect installation method.
13. After the machine is fixed, confirm whether it is firm, and rotate the motor fan to confirm whether the motor can rotate freely.
14. Before connecting the power cord, confirm whether the selected power supply matches the motor model, and connect the over-current protection switch.
15. If it is used for dangerous chemical liquid, the pump shall be covered with a protective cover.
16. Before starting the pump motor, fill it with liquid, check whether the inlet and outlet valves are open, and do not implement idling operation.
17. After installation, confirm whether the pipeline is firm again to avoid damage caused by vibration.
18. Before starting the power supply, check whether the inlet and outlet pipelines are correctly selected. For example, whether the inlet and outlet valves are opened, whether the pipeline flow path is correct, whether the liquid in the tank is normal and whether the pipeline is damaged, etc.
19. When operating liquid in dangerous environment, it is required to wear protective clothing, face shield and safety shoes and socks.
20. Check all kinds of protection switches. For example: whether the liquid switch, the liquid level controller in the tank and the power protection switch are in the normal operation position.
21. After starting the power supply, check whether the flow at the outlet is normal. If the flow is too small, stop the power supply immediately, and then check the inlet and outlet pipelines to address the problem.

Performance curve



Accessories

Attached table: list of drug resistance

| Drug name | % | °C | Material of pump head | Material of shaft seal | Ssic | EPDM | Rubber material |
|--|---------------|----------------------|-----------------------|------------------------|------------------|------------------|------------------|
| | Concentration | Temperature | GFRPP | CFRPP | PVDF | CFRTEFE | VITON |
| Hydrochloride HCl | 15 | 40 60 80 | ● ● ○ | ● ● ● | ● ● ○ | ● ● ○ | ● ● ○ |
| Hydrogen peroxide solution H ₂ O ₂ | 10 | 40 60 80 | ● ● ● | ● ● ● | x x x | x x x | ○ ○ ○ |
| Phosphoric acid H ₃ PO ₄ | 25 | 40 60 80 | ● ● ● | ● ● ● | ● ● ○ | ● ● ○ | ● ● ○ |
| Sodium hypochlorite NaClO | 10 | 40 60 80 | ● ● ● | ● ● ● | ● ● ○ | ● ● ○ | ● ● ○ |
| Acetic acid CH ₃ COOH | 25 | 40 60 80 | ● ● ● | ● ● ● | ● ● ○ | ● ● ○ | ● ● ○ |
| Hydrofluoric acid HF | 25 | 40 60 70 | ● ● ● | ● ● ● | x x x | x x x | △ x ○ |
| Aqua regia HCl + HNO ₃ | 3:1 | 40 60 90 | ● ● ● | ● ● ● | ● ● ○ | x x x | ○ ○ ○ |
| Chromic acid CrO ₃ | 20 | 40 60 80 90 | ● ● ● ● | ● ● ● ● | ● ● ● ● | ● ● ● ● | ● ● ● ● |
| Sulphuric acid H ₂ SO ₄ | 30 | 40 60 80 95 | ● ● ● ● | ● ● ● ● | ● ● ● ● | ● ● ● ● | ● ● ● ● |
| Sodium hydroxide NaOH | 45 | 40 60 80 98 | ● ● ● ● | ● ● ● ● | ● ● ● ● | ● ● ● ● | ● ● ● ● |
| Ferric chloride FeCl ₃ | | 40 60 80 | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| Cupric cyanide Cu(CN) ₂ | | 40 60 80 | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| Zinc chloride ZnCl ₂ | | 40 60 80 | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| Nickel sulfate NiSO ₄ | | 40 60 80 | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| Nitric acid HNO ₃ | 20 50 | 40 60 80 | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| Y-type filter | | | | | | | |
| Dual-Union ball valve | | | | | | | |
| Union connector | | | | | | | |
| Union ball valve | | | | | | | |

● Outstanding ○ Good △ Fair × Poor

Union ball valve

Union connector

Dual-Union ball valve

Y-type filter