



CATALOG

YEAR 2026



STAINLESS STEEL CENTRIFUGAL PUMP MODEL : CHS 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



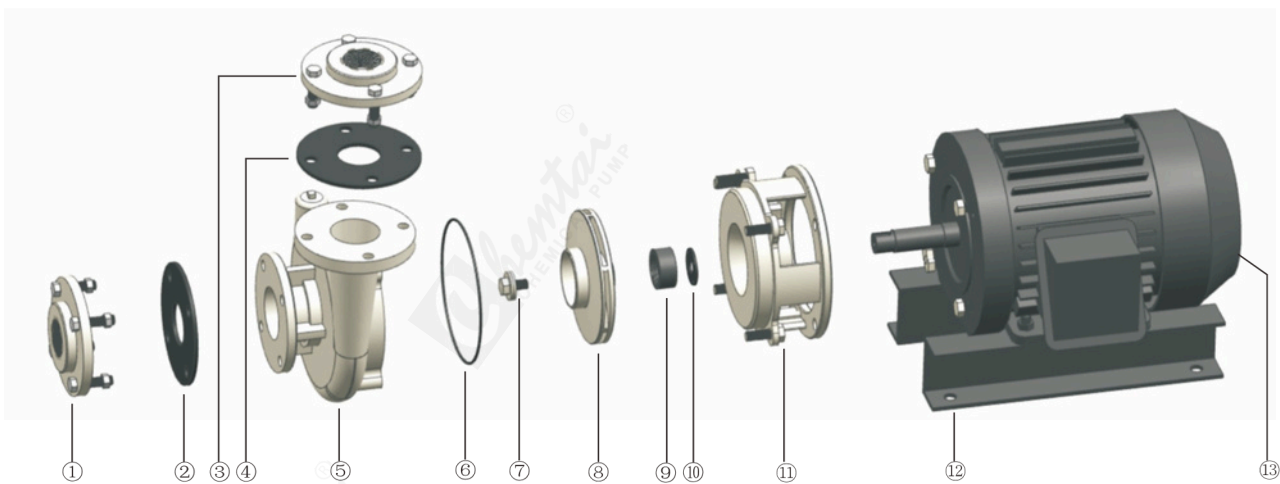
SEMICONDUCTOR



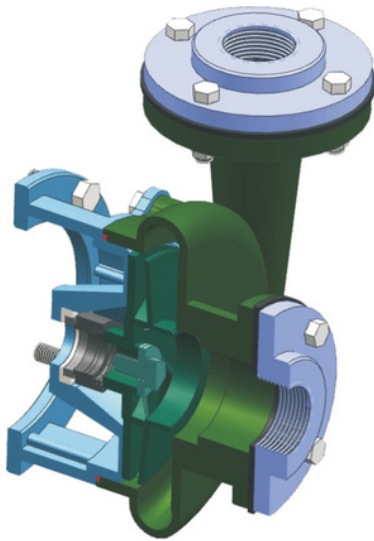
AUTO-PART
INDUSTRY



Stainless Steel Centrifugal Pump [CHS Series]



- ① Inlet Flange
- ② Inlet Gasket
- ③ Outlet Flange
- ④ Outlet Gasket
- ⑤ Front Cover
- ⑥ O-Ring
- ⑦ Impeller Nut
- ⑧ Impeller
- ⑨ Front Shaft Seal
- ⑩ Rear Shaft Seal
- ⑪ Connecting Base
- ⑫ Frame
- ⑬ Motor



Product Characteristics

1. The pump is applicable to general pure water industry, surface treatment, food industry and chemical industry.
2. The user can select SUS304 or SUS316 pump body material and shaft seal type according to chemical requirements.
3. The main body of the pump is made of high-quality materials by precision casting, with a firm and compact structure.

Product Advantages

1. Unique technology, low noise, high efficiency, corrosion resistance, long service life;
2. Patented technology, CE, SGS quality certification of European Union, and government designated supplier;
3. High temperature resistance, suitable for many kinds of liquid, high cost-effective;
4. 4-pole motor centrifugal pump to solve the problem of rapid temperature rise of liquid;
5. Optional protection device, which can prevent the shaft seal from being damage due to dry-running;
6. Secondary energy efficiency, energy conservation and environmental protection (customized);
7. SUS304 or SUS316 material, with high temperature and corrosion resistance, etc.



Model Description

CHS - 40 - 2 - S - 6 - P - 5 - V38 - A - K - A - B - S

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

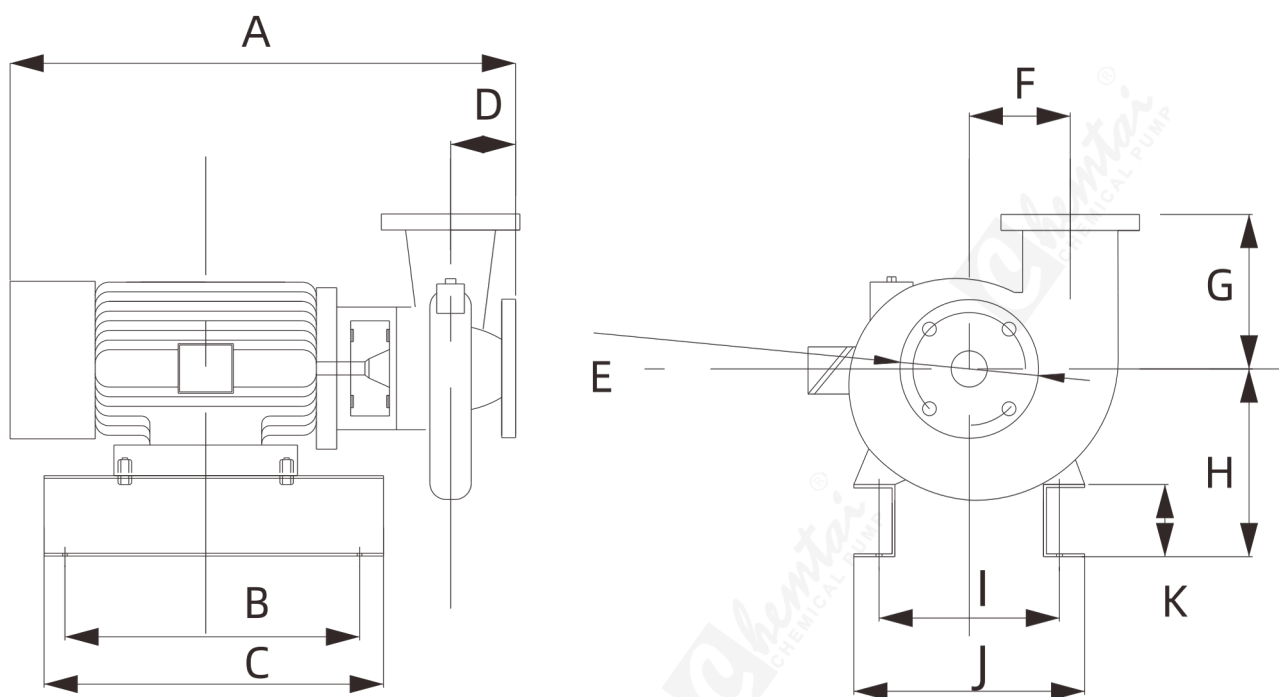
- ① Model No.: CHS
- ② Inlet And Outlet Caliber: 25-25mm; 40-40mm; 50-50mm; 65-65mm; 80-80mm; 100-100mm; 125-125mm; 150-150mm
- ③ Power: 1/2-1/2HP; 1-1HP; 2-2HP; 3-3HP; 5-5HP; 7.5-7.5HP; 10-10HP; 15-15HP; 20-20HP
- ④ Shaft Seal Material: S-SSIC
- ⑤ Pump Body Material: 4-SUS304; 6-SUS316
- ⑥ Sealing Material: P-PTFE
- ⑦ Frequency: 5-50HZ; 6-60HZ
- ⑧ Voltage: V38-3Ø/380V; V41-3Ø/415V; V44-3Ø/440V; V48-3Ø/480V; V66-3Ø/660V; V32-3Ø/220V; V22-1Ø/220V
- ⑨ Specific Gravity Of Liquid: A-1.0-1.2; B-1.3; C-1.4; D-1.5; E-1.6; F-1.7; G-1.8; H-1.9; I-2.0
- ⑩ Motor Brand: K-Kailida; Q-Other
- ⑪ 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
- ⑫ Motor Protection Level: A-IP54; B-IP55; C-IP56; D-IP65
- ⑬ S-Standard; N-Non-Standard

Product Specification List

| No. | Model | Power | | In & Outlet Size | Rotational Speed | Max.Head (50Hz) | Max.Flow (50Hz) | |
|-----|-------------|-------|------|------------------|------------------|-----------------|-----------------|-------------------|
| | | HP | KW | DN25 | R/MIN | M | L/MIN | M ³ /H |
| 1 | CHS-25-0.5 | 0.5 | 0.37 | DN25 | 2850 | 14 | 150 | 9 |
| 2 | CHS-25-1 | 1 | 0.75 | DN25 | 2850 | 14 | 200 | 12 |
| 3 | CHS-40-1 | 1 | 0.75 | DN40 | 2850 | 14 | 250 | 15 |
| 4 | CHS-40-2 | 2 | 1.5 | DN40 | 2850 | 17.5 | 383 | 23 |
| 5 | CHS-50-2 | 2 | 1.5 | DN50 | 2850 | 17.5 | 500 | 30 |
| 6 | CHS-50-3 | 3 | 2.2 | DN50 | 2850 | 20 | 500 | 30 |
| 7 | CHS-65-3 | 3 | 2.2 | DN65 | 2850 | 20 | 600 | 36 |
| 8 | CHS-50-5 | 5 | 3.7 | DN50 | 2850 | 23 | 633 | 38 |
| 9 | CHS-65-5 | 5 | 3.7 | DN65 | 2850 | 23 | 700 | 42 |
| 10 | CHS-80-7.5 | 7.5 | 5.5 | DN80 | 2850 | 27 | 1033 | 62 |
| 11 | CHS-100-7.5 | 7.5 | 5.5 | DN100 | 2850 | 27 | 1533 | 92 |
| 12 | CHS-80-10 | 10 | 7.5 | DN80 | 2850 | 31 | 1033 | 62 |
| 13 | CHS-100-10 | 10 | 7.5 | DN100 | 2850 | 27 | 1800 | 108 |
| 14 | CHS-100-15 | 15 | 11 | DN100 | 2850 | 31 | 1866 | 112 |
| 15 | CHS-125-15 | 15 | 11 | DN125 | 2850 | 27 | 2700 | 162 |
| 16 | CHS-100-20 | 20 | 15 | DN100 | 2850 | 35 | 2133 | 128 |
| 17 | CHS-125-20 | 20 | 15 | DN125 | 2850 | 27 | 3050 | 183 |

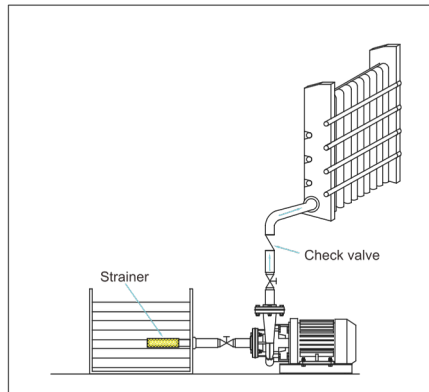
• Medium temperature: 0 °C~+80 °C, medium specific gravity: 1-2, working environment temperature: -5 °C~+50 °C, maximum usage altitude: 2000m, maximum working pressure: 5Bar. Test basis: The above performance data corresponds to the normal speed of transportation of clean water at 25 °C. The performance error is ± 5%. The performance of a pump varies with the specific gravity and temperature of the fluid medium being transported.

Size Specification

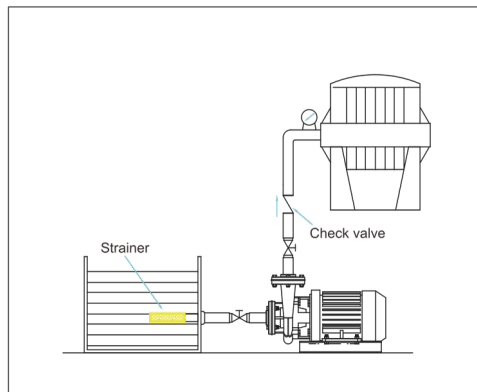


| Model | Dimensions Diagram (Unit: mm) | | | | | | | | | | |
|-------------|-------------------------------|-----|-----|----|-----|-----|-----|-----|-----|-----|----|
| | A | B | C | D | E | F | G | H | I | J | K |
| CHS-25-1/2 | 350 | 204 | 235 | 45 | 96 | 70 | 107 | 130 | 125 | 160 | 50 |
| CHS-25-1 | 355 | 204 | 235 | 45 | 96 | 70 | 107 | 130 | 125 | 160 | 50 |
| CHS-40-1 | 355 | 204 | 235 | 45 | 96 | 70 | 107 | 130 | 125 | 160 | 50 |
| CHS-40-2 | 405 | 204 | 235 | 50 | 120 | 80 | 106 | 140 | 140 | 175 | 50 |
| CHS-50-2 | 405 | 204 | 235 | 50 | 120 | 80 | 106 | 140 | 140 | 175 | 50 |
| CHS-50-3 | 415 | 235 | 265 | 50 | 120 | 80 | 106 | 140 | 140 | 175 | 50 |
| CHS-65-3 | 430 | 235 | 265 | 65 | 150 | 85 | 158 | 140 | 140 | 175 | 50 |
| CHS-65-5 | 480 | 264 | 300 | 70 | 150 | 100 | 154 | 162 | 190 | 225 | 50 |
| CHS-80-7.5 | 526 | 264 | 300 | 70 | 150 | 100 | 154 | 182 | 216 | 250 | 50 |
| CHS-80-10 | 536 | 264 | 300 | 70 | 150 | 100 | 154 | 182 | 216 | 250 | 50 |
| CHS-100-7.5 | 550 | 264 | 300 | 74 | 210 | 106 | 163 | 182 | 216 | 250 | 50 |
| CHS-100-10 | 740 | 348 | 400 | 86 | 210 | 122 | 167 | 210 | 254 | 300 | 50 |
| CHS-100-15 | 740 | 348 | 400 | 86 | 210 | 122 | 167 | 210 | 254 | 300 | 50 |
| CHS-100-20 | 740 | 348 | 400 | 86 | 210 | 122 | 167 | 210 | 254 | 300 | 50 |
| CHS-125-15 | 756 | 348 | 400 | 92 | 250 | 128 | 210 | 210 | 254 | 300 | 50 |
| CHS-125-20 | 756 | 348 | 400 | 92 | 250 | 128 | 210 | 210 | 254 | 300 | 50 |

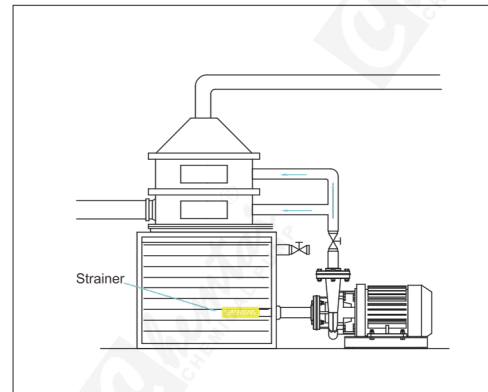
Used In Heat Exchanger



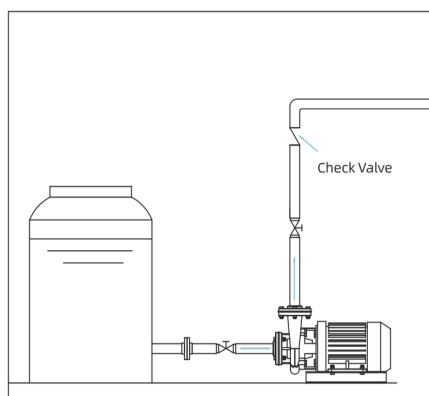
Used In Reaction Tank Or Filter Compressor



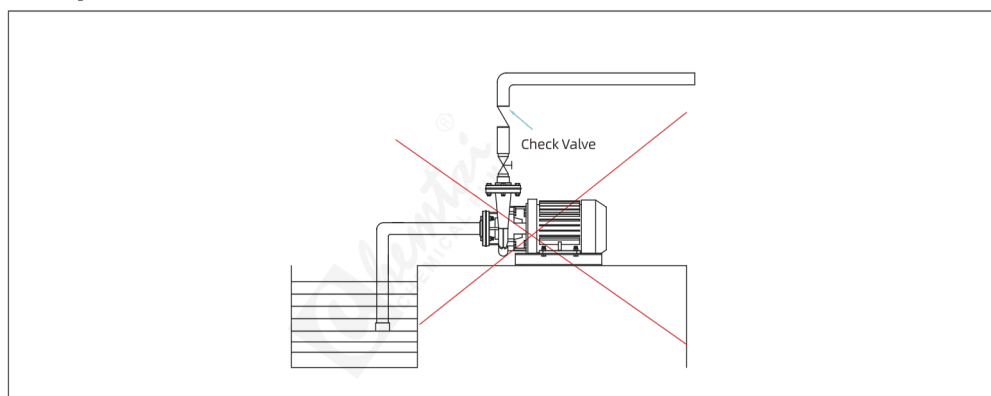
Used In Waste Gas Cleaning Tower



Installed Outside The Barrel



Warning: Incorrect use



Attentions:

1. 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.
2. 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.
3. The pump made of PVC material shall be protected from direct sunlight to prevent material embrittlement.
4. 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.
5. 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.
6. The flange joint shall be supplemented with gasket and locked to prevent air from being sucked into the pump.
7. 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.
8. 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.
9. The safety drain valve shall be installed between the pump outlet and the first on-off valve. It is better to install a pressure gauge to detect the pressure in the pipe.
10. Avoid suction of sundries and siphon effect, please add bottom valve (Ford valve).
11. Check valve shall be installed near the pump inlet and outlet as far as possible, and T-joint shall be employed when installing pressure gauge or safety discharge valve.

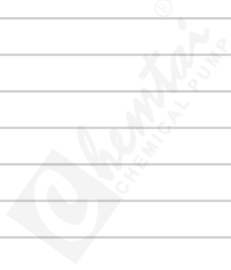
12. When piping, pay attention that the pipeline shall not be forcibly twisted. After installation, check whether the pump body is distorted due to excessive force or incorrect installation method.
13. After the machine is fixed, confirm whether it is firm, and rotate the motor fan to confirm whether 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.

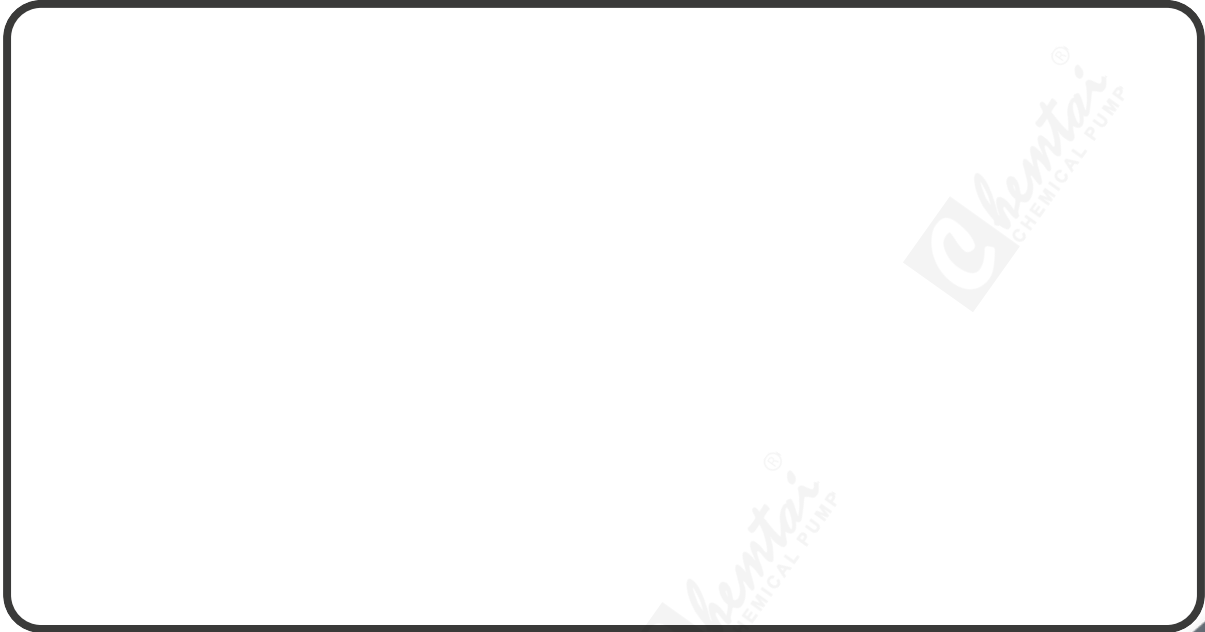
CORROSION RESISTANCE CHART

| 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 | × | △ | ● | ● | ● | ● | ● | ○ | ● |
| | 98 | 40 | × | ○ | ● | ● | ● | ● | ● | | ● |
| | | 60 | × | △ | ○ | ● | ● | ● | ● | | ● |
| 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

Lined writing area for notes or calculations.





A new level of pump performance.
Expanded field of application owing
to improved corrosion resistance.

