

**QY(B)** 50Hz/60Hz  
Stainless steel self-suction gas-liquid mixing pump

**QYL(B)**



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## Company Profile



Founded in 1991, Nanfang Pump Industry Co., Ltd. (hereinafter referred to as CNP) has been listed on the Shenzhen Stock Exchange on 9th December 2010; Stock name: CNP; Stock code: 300145.

As the first enterprise specializing in the research and large-scale production of stainless steel stamping welded centrifugal pump in China, CNP is currently the professional manufacturer with the highest volume of production and marketing in that industry. It ranks first in the country in terms of product scope, sales volume, and production quality. The company has set up a complete network of marketing services to meet the requirements of overseas markets as well as domestic needs. The products have seen a wide range of application in the area of pressurization, industry, living water, cycling of air-conditioning water, heat supply, fire extinguishing system, pumping of underground water, treatment of sewage and waste water, chemical industry and desalination of sea water etc.

CNP has now entered into the fast track of development and has taken a major step forward in forging China Strong Pump Enterprise and World's famous brand in the Pump Industry. In order to better meet the client's needs and requirements for expansion, it has set up a wide network of selling and service, as well as offices and service centers in major cities in China, which are aimed at providing timely and effective services for our clients. Meanwhile, our company has successfully penetrated into the world market by forging a good business relationship with more than 50 countries and regions in the Europe, Northern American, and Southeast Asia etc.

# Content

## General Data

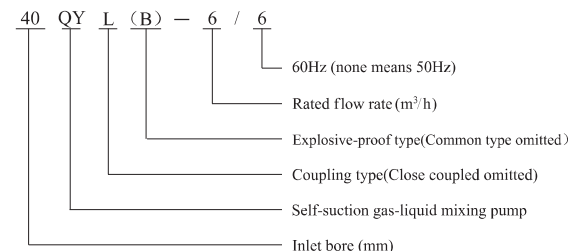
|                     |   |
|---------------------|---|
| Definition of model | 4 |
| Working conditions  | 4 |
| Application         | 4 |
| Features            | 4 |

## Technical Data

|                                |   |
|--------------------------------|---|
| Performance curve              | 5 |
| Performance table              | 6 |
| QY(B) Installation dimensions  | 7 |
| QYL(B) Installation dimensions | 9 |

## General Data

### Definition of model



### Working conditions

- QY and QYL designed for clear and low viscosity liquid, or liquid containing extra-fine foreign matters.
- QYB and QYLB designed for clear and low viscosity liquid, or explosive flammable liquid which containing very little solids.
- Liquid Temperature: -15℃ ~ 105℃
- Maximum ambient temperature: +40℃
- Gas-liquid ratio 1:9 (gas suction volume 8 ~ 10%)
- Inlet:horizontal, Outlet:Vertical

### Application

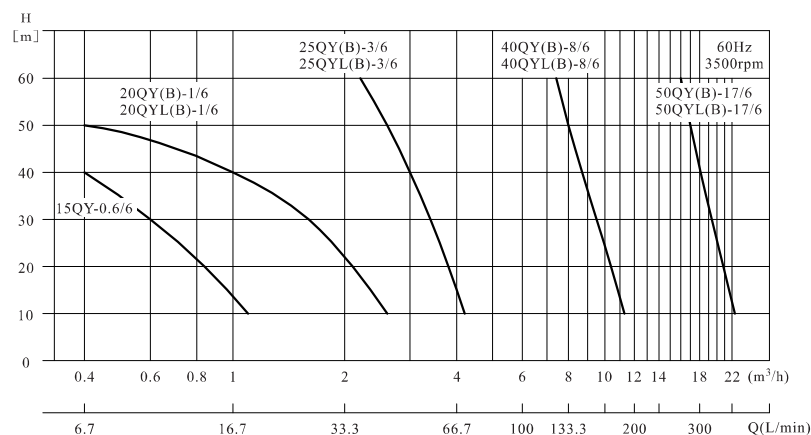
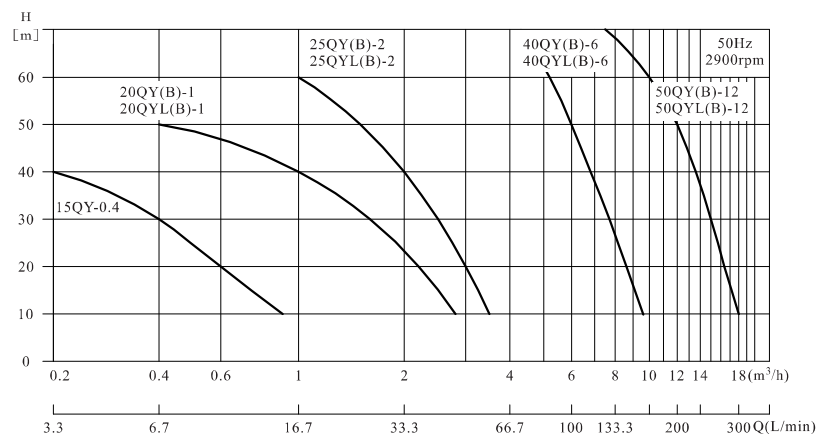
- Air suspension treating equipment, ozone water preparing equipment, and biological treating equipment.
- Feeding of heating or cooling medium for various temperature adjusting devices.
- Various filters: sucking or high pressure transferring low viscosity liquid from underground tank, such as gasoline and various solvent.
- Misting treatment of clear water, pure water, foods, chemical solution and waste solution.
- Strict applications (continuous running, abrupt variation in hydraulic pressure): such as small scale steam boiler, high building water supply, high pressure water injection to high pressure tank, and suction from vacuum tank.
- Sampling from river or tank, transfer foamable liquid, transfer liquid through long and horizontal pipeline, where air pockets likely occur.

### Features

- It can suck water while sucking gas and pressurize and mix them inside it. Ultra fine air bubble 20 ~ 30 μ. It renders a good gas liquid solving effect.
- It has stable performances, high efficiency and low noise level, and its gas liquid solving efficiency is as high as twice that of the traditional mode.
- When it is used in air suspension unit, air compressors, various mixers, high pressure air solving tanks and releasers may be saved and thus the weakness of instable air supply and boiling of large air bubble which likely occur in traditional working model will be eliminated.
- When it is used in ozone water preparing equipment, many mixers and large oxidation towers may be saved and thus the cost for equipment will be greatly reduced. In addition, its gas liquid solving ratio may exceed 95%.
- It is simple in structure and operation, easy in maintenance and durable and needs less components. It has a good self suction capacity and a wide application range.

# Technical Data

## Performance curve



## Performance table

50Hz

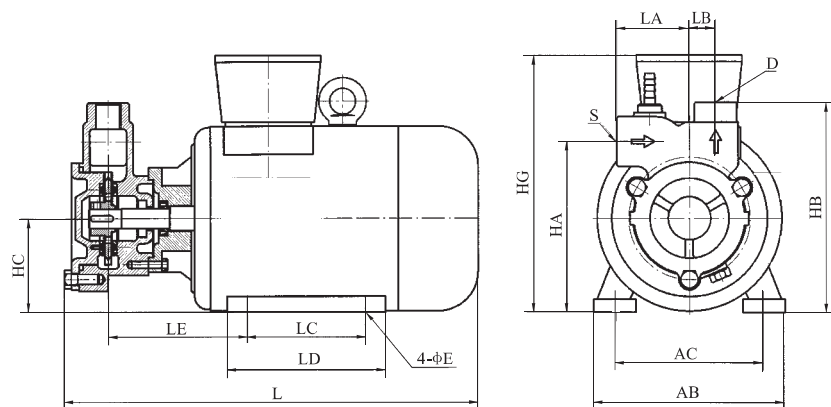
| Model     | Driving motor |      |         | H<br>(m)    | 10  | 20   | 30  | 40   | 50  | 60  | 70  |
|-----------|---------------|------|---------|-------------|-----|------|-----|------|-----|-----|-----|
|           | (kW)          | (hp) | PH      |             |     |      |     |      |     |     |     |
| 15QY-0.4  | 0.3           | 0.4  | 1PH 3PH | Q<br>(m³/h) | 0.9 | 0.6  | 0.4 | 0.2  | —   | —   | —   |
| 20QY-1    | 0.55          | 0.75 | 1PH 3PH |             | 2.8 | 2.2  | 1.6 | 1    | 0.4 | —   | —   |
| 20QYB-1   |               |      | 3PH     |             |     |      |     |      |     |     |     |
| 25QY-2    | 1.1           | 1.5  | 1PH 3PH |             | 3.5 | 3    | 2.5 | 2    | 1.5 | 1   | —   |
| 25QYB-2   |               |      | 3PH     |             |     |      |     |      |     |     |     |
| 40QY-6    | 3             | 4    | 3PH     |             | 9.6 | 8.6  | 7.7 | 6.8  | 6   | 5.2 | 4.3 |
| 40QYB-6   | 4             | 5.5  |         | Q<br>(m³/h) | 18  | 16.4 | 15  | 13.6 | 12  | 10  | 7.5 |
| 50QY-12   | 5.5           | 7.5  | 3PH     |             |     |      |     |      |     |     |     |
| 50QYB-12  | 7.5           | 10   | 3PH     |             |     |      |     |      |     |     |     |
| 20QYL-1   | 0.55          | 0.75 | 1PH 3PH |             | 2.8 | 2.2  | 1.6 | 1    | 0.4 | —   | —   |
| 20QYLB-1  |               |      | 3PH     |             |     |      |     |      |     |     |     |
| 25QYL-2   | 1.1           | 1.5  | 1PH 3PH |             | 3.5 | 3    | 2.5 | 2    | 1.5 | 1   | —   |
| 25QYLB-2  |               |      | 3PH     |             |     |      |     |      |     |     |     |
| 40QYL-6   | 4             | 5.5  | 3PH     | Q<br>(m³/h) | 9.6 | 8.6  | 7.7 | 6.8  | 6   | 5.2 | 4.3 |
| 40QYLB-6  |               |      |         |             |     |      |     |      |     |     |     |
| 50QYL-12  | 7.5           | 10   | 3PH     |             | 18  | 16.4 | 15  | 13.6 | 12  | 10  | 7.5 |
| 50QYLB-12 |               |      |         |             |     |      |     |      |     |     |     |

60Hz

| Model       | Driving motor |      |         | H<br>(m)    | 10   | 20   | 30   | 40   | 50  | 60  |
|-------------|---------------|------|---------|-------------|------|------|------|------|-----|-----|
|             | (kW)          | (hp) | PH      |             |      |      |      |      |     |     |
| 15QY-0.6/6  | 0.45          | 0.6  | 1PH 3PH | Q<br>(m³/h) | 1.1  | 0.8  | 0.6  | 0.4  | —   | —   |
| 20QY-1/6    | 0.75          | 1    | 1PH 3PH |             | 2.6  | 2.1  | 1.6  | 1    | 0.4 | —   |
| 20QYB-1/6   | 0.55          | 0.75 | 3PH     |             |      |      |      |      |     |     |
| 25QY-3/6    | 1.5           | 2    | 1PH 3PH |             | 4.2  | 3.8  | 3.4  | 3    | 2.6 | 2.2 |
| 25QYB-3/6   |               |      | 3PH     |             |      |      |      |      |     |     |
| 40QY-8/6    | 4             | 5.5  | 3PH     |             | 11.3 | 10.4 | 9.5  | 8.7  | 8   | 7.4 |
| 40QYB-8/6   |               |      |         | Q<br>(m³/h) | 22.4 | 20.8 | 19.4 | 18.1 | 17  | 16  |
| 50QY-17/6   | 7.5           | 10   | 3PH     |             |      |      |      |      |     |     |
| 50QYB-17/6  |               |      |         |             |      |      |      |      |     |     |
| 20QYL-1/6   | 0.75          | 1    | 1PH 3PH |             | 2.6  | 2.1  | 1.6  | 1    | 0.4 | —   |
| 20QYLB-1/6  | 0.55          | 0.75 | 3PH     |             |      |      |      |      |     |     |
| 25QYL-3/6   | 1.5           | 2    | 1PH 3PH |             | 4.2  | 3.8  | 3.4  | 3    | 2.6 | 2.2 |
| 25QYLB-3/6  |               |      | 3PH     |             |      |      |      |      |     |     |
| 40QYL-8/6   | 4             | 5.5  | 3PH     | Q<br>(m³/h) | 11.3 | 10.4 | 9.5  | 8.7  | 8   | 7.4 |
| 40QYLB-8/6  |               |      |         |             |      |      |      |      |     |     |
| 50QYL-17/6  | 7.5           | 10   | 3PH     |             | 22.4 | 20.8 | 19.4 | 18.1 | 17  | 16  |
| 50QYLB-17/6 |               |      |         |             |      |      |      |      |     |     |

## Technical Data

### ● QY(B) Installation sketch



## Technical Data

### ● QY(B) Installation dimensions

50Hz

| Model    | HA  | HB  | HC  | HG  | AB  | AC  | L   | LA   | LB | LC  | LD  | LE  | S   | D   | E   | weight<br>[kg] |
|----------|-----|-----|-----|-----|-----|-----|-----|------|----|-----|-----|-----|-----|-----|-----|----------------|
| 15QY-0.4 | 117 | 143 | 63  | 188 | 120 | 100 | 265 | 52.5 | 16 | 80  | 104 | 98  | G½  | G¾  | Φ7  | 7              |
| 20QY-1   | 129 | 159 | 71  | 180 | 135 | 112 | 310 | 55   | 20 | 90  | 110 | 100 | G¾  | G½  | Φ9  | 10             |
| 20QYB-1  | 129 | 159 | 71  | 270 | 140 | 112 | 350 | 55   | 20 | 90  | 114 | 100 | G¾  | G½  | Φ9  | 20             |
| 25QY-2   | 150 | 185 | 80  | 195 | 155 | 125 | 345 | 60   | 28 | 100 | 130 | 105 | G1  | G¾  | Φ10 | 17             |
| 25QYB-2  | 150 | 185 | 80  | 340 | 165 | 125 | 400 | 60   | 28 | 100 | 135 | 105 | G1  | G¾  | Φ10 | 27             |
| 40QY-6   | 185 | 230 | 100 | 230 | 190 | 160 | 445 | 70   | 40 | 140 | 170 | 140 | G1½ | G1¼ | Φ12 | 36             |
| 40QYB-6  | 197 | 242 | 112 | 365 | 240 | 190 | 550 | 70   | 40 | 140 | 180 | 140 | G1½ | G1¼ | Φ12 | 67             |
| 50QY-12  | 232 | 288 | 132 | 300 | 250 | 216 | 520 | 77   | 47 | 140 | 175 | 180 | G2  | G1½ | Φ12 | 63             |
| 50QYB-12 | 232 | 288 | 132 | 410 | 280 | 216 | 580 | 77   | 47 | 140 | 190 | 180 | G2  | G1½ | Φ12 | 94             |

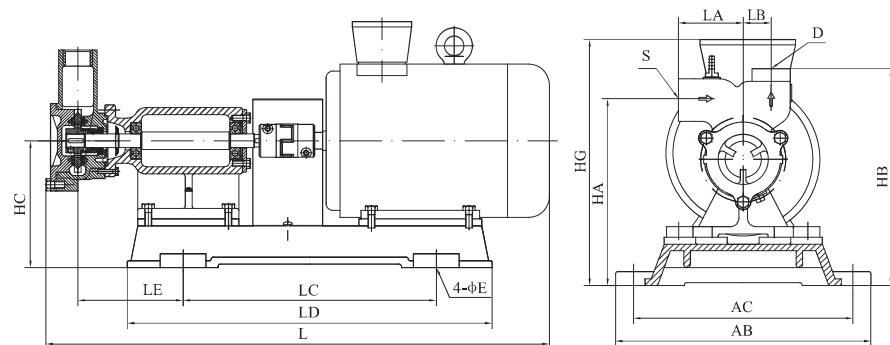
60Hz

| Model      | HA  | HB  | HC  | HG  | AB  | AC  | L   | LA   | LB | LC  | LD  | LE  | S   | D   | E   | weight<br>[kg] |
|------------|-----|-----|-----|-----|-----|-----|-----|------|----|-----|-----|-----|-----|-----|-----|----------------|
| 15QY-0.6/6 | 117 | 143 | 63  | 188 | 120 | 100 | 265 | 52.5 | 16 | 80  | 104 | 98  | G½  | G¾  | Φ7  | 7              |
| 20QY-1/6   | 129 | 159 | 71  | 180 | 135 | 112 | 310 | 55   | 20 | 90  | 110 | 100 | G¾  | G½  | Φ9  | 10             |
| 20QYB-1/6  | 129 | 159 | 71  | 270 | 140 | 112 | 350 | 55   | 20 | 90  | 114 | 100 | G¾  | G½  | Φ9  | 20             |
| 25QY-3/6   | 150 | 185 | 80  | 195 | 155 | 125 | 345 | 60   | 28 | 100 | 130 | 105 | G1  | G¾  | Φ10 | 17             |
| 25QYB-3/6  | 160 | 195 | 90  | 340 | 176 | 140 | 445 | 60   | 28 | 100 | 130 | 105 | G1  | G¾  | Φ10 | 33             |
| 40QY-8/6   | 185 | 230 | 100 | 230 | 190 | 160 | 445 | 70   | 40 | 140 | 170 | 140 | G1½ | G1¼ | Φ12 | 36             |
| 40QYB-8/6  | 197 | 242 | 112 | 365 | 240 | 190 | 550 | 70   | 40 | 140 | 180 | 140 | G1½ | G1¼ | Φ12 | 67             |
| 50QY-17/6  | 232 | 288 | 132 | 300 | 250 | 216 | 520 | 77   | 47 | 140 | 175 | 180 | G2  | G1½ | Φ12 | 63             |
| 50QYB-17/6 | 232 | 288 | 132 | 410 | 280 | 216 | 580 | 77   | 47 | 140 | 190 | 180 | G2  | G1½ | Φ12 | 94             |



## Technical Data

### ● QYL(B) Installation sketch



## Technical Data

### ● QYL(B) Installation dimensions

50Hz

| Model     | HA  | HB  | HC  | HG  | AB  | AC  | L   | LA | LB | LC  | LD  | LE  | S   | D   | E   | weight<br>[kg] |
|-----------|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|----------------|
| 20QYL-1   | 199 | 229 | 141 | 250 | 265 | 225 | 525 | 55 | 20 | 228 | 388 | 135 | G¾  | G½  | Φ14 | 26             |
| 20QYLB-1  | 199 | 229 | 141 | 340 | 265 | 225 | 560 | 55 | 20 | 228 | 388 | 135 | G¾  | G½  | Φ14 | 37             |
| 25QYL-2   | 220 | 255 | 150 | 265 | 275 | 235 | 620 | 60 | 28 | 293 | 453 | 136 | G1  | G¾  | Φ14 | 36             |
| 25QYLB-2  | 220 | 255 | 150 | 410 | 275 | 235 | 670 | 60 | 28 | 293 | 453 | 136 | G1  | G¾  | Φ14 | 48             |
| 40QYL-6   | 255 | 300 | 170 | 300 | 345 | 305 | 750 | 70 | 40 | 363 | 535 | 151 | G1½ | G1¼ | Φ14 | 62             |
| 40QYLB-6  | 267 | 312 | 182 | 435 | 345 | 305 | 850 | 70 | 40 | 363 | 535 | 151 | G1½ | G1¼ | Φ14 | 95             |
| 50QYL-12  | 302 | 358 | 202 | 370 | 390 | 350 | 780 | 77 | 47 | 450 | 610 | 158 | G2  | G1½ | Φ14 | 97             |
| 50QYLB-12 | 302 | 358 | 202 | 480 | 390 | 350 | 875 | 77 | 47 | 450 | 610 | 158 | G2  | G1½ | Φ14 | 138            |

60Hz

| Model       | HA  | HB  | HC  | HG  | AB  | AC  | L   | LA | LB | LC  | LD  | LE  | S   | D   | E   | weight<br>[kg] |
|-------------|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|----------------|
| 20QYL-1/6   | 199 | 229 | 141 | 250 | 265 | 225 | 525 | 55 | 20 | 228 | 388 | 135 | G¾  | G½  | Φ14 | 26             |
| 20QYLB-1/6  | 199 | 229 | 141 | 340 | 265 | 225 | 560 | 55 | 20 | 228 | 388 | 135 | G¾  | G½  | Φ14 | 37             |
| 25QYL-3/6   | 220 | 255 | 150 | 265 | 275 | 235 | 620 | 60 | 28 | 293 | 453 | 136 | G1  | G¾  | Φ14 | 36             |
| 25QYLB-3/6  | 230 | 265 | 160 | 410 | 286 | 246 | 715 | 60 | 28 | 293 | 453 | 136 | G1  | G¾  | Φ14 | 54             |
| 40QYL-8/6   | 255 | 300 | 170 | 300 | 345 | 305 | 750 | 70 | 40 | 363 | 535 | 151 | G1½ | G1¼ | Φ14 | 62             |
| 40QYLB-8/6  | 267 | 312 | 182 | 435 | 345 | 305 | 850 | 70 | 40 | 363 | 535 | 151 | G1½ | G1¼ | Φ14 | 95             |
| 50QYL-17/6  | 302 | 358 | 202 | 370 | 390 | 350 | 780 | 77 | 47 | 450 | 610 | 158 | G2  | G1½ | Φ14 | 97             |
| 50QYLB-17/6 | 302 | 358 | 202 | 480 | 390 | 350 | 875 | 77 | 47 | 450 | 610 | 158 | G2  | G1½ | Φ14 | 138            |

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