

## **GODO TRADING COMPANY LIMITED**

Head Office: Hoang Quoc Viet Street, Cau Giay District, Ha Noi City

Hotline: +84 96 99 28 169

Email: [Hanoi@bommanggodo.com](mailto:Hanoi@bommanggodo.com)

Website: [www.bommanggodo.com](http://www.bommanggodo.com)

### **Branches in Ho Chi Minh City**

Add: Tan Son Street, Go Vap District, Ho Chi Minh City

Hotline: +84 978 04 6786

Email: [Sales@bommanggodo.com](mailto:Sales@bommanggodo.com)

# Diaphragm Pump Catalog



**GODO TRADING COMPANY LIMITED**

# Development history

Integrity innovation, sustainable development.

- In 2020  
GODO manufacturing Co.,Ltd. was certified as a national high-tech enterprise.  
15,000m<sup>2</sup> new plant was completed in Jiashan county.
- In 2019  
GODO manufacturing Co.,Ltd was awarded the "Top Ten Specialized Special New Enterprises" and "Demonstration Enterprise of Technological Innovation and Achievement Transformation" title.  
The number of domestic branches under the Bianfeng Machinery Group Co.,Ltd reaches 30.
- In2018  
The total number of enterprise patents exceeded 50.  
The first overseas branch—Vietnam Hanoi branch was established.
- In2016  
Bianfeng Machinery Group Co.,Ltd was formally established.  
The Production base in Xitang town,Jiashan county was established.
- In2015  
Shanghai Bianfeng Pumps Manufacturing Co.,Ltd obtained the national high-tech enterprise certification.  
The pneumatic diaphragm pump series have obtained explosion-proof certification.  
Diaphragm pump products have obtained the EU CE certification.
- In2013  
Bianfeng Pump Manufacturing Co.,Ltd passed the 1S09001 international quality system certification.
- In2009  
GODO's third-generation diaphragm pump was successfully put into the market.
- In2005  
Shanghai Bianfeng Pump Manufacturing Co., Ltd. was formally registered and established.
- In2000  
Bianfeng's second-generation pneumatic diaphragm pump came out.
- In1990  
The Bianfeng's predecessors took the lead in establishing a diaphragm pump processing workshop in China.



## ABOUT US

Bianfeng Machinery Group Co., Ltd., the predecessor of Shanghai Bianfeng Pump Manufacturing Co., Ltd., is a Chinese leading professional manufacturer engaged in researching, developing, manufacturing, sales and service of diaphragm pumps. Since the establishment of the company, the products have been continuously improved and optimized. With more than 30 years of experience and technology, successfully launched the third-generation pneumatic diaphragm pump (QBY3/BFQ) series, the third-generation electric diaphragm pump (DBY3/BFD) series and upgraded products. The products have high quality and good price, and are widely used in the fields of chemical industry, environmental protection, oil, pharmaceutical, food, metallurgy, papermaking, electric power, printing and dyeing, etc.

The company has passed the ISO9001 international quality system certification, GODO products obtained national explosion-proof product qualification certification and EU CE certification. Bianfeng Machinery Group's branches Bianfeng Pump Industry CO.,Ltd and GODO Manufacturing Co.,Ltd won the title of national "high-tech enterprise". By 2021, Bianfeng Machinery Group and all branches have obtained more than 60 patents. After moving the production base to Jiashan, our company has been commended by the local government for many times and has become a representative enterprise of local scientific and technological innovation.

The third-generation pneumatic diaphragm pump (QBY3) series developed by our company is reasonable in design and has the advantages of no seal, explosion-proof, low-shear, easy maintenance, allowable idling, lightness, self-priming, and multiple material selection.

While upgrading and researching and developing products, we take "making every project (customer) be a model project for GODO products" as our service goal. The company has established a relatively sound marketing service system across the country with 28 domestic branches and 2 overseas branches, provide active, fast, comprehensive and meticulous services in various service links such as product selection, troubleshooting, and after-sales maintenance. In addition, the company has established customer files and 24-hour rapid response systems. Strive to make every project (customer) be a model project for GODO products.

With the full support of customers, Bianfeng Machinery Group will continue to improve the technological content of fluid machinery and create a more brilliant tomorrow.

SAMPLE PROJECT

ENERGY

ENVIRONMENTAL

ENTHUSIASTIFUL SERVICE

EXPLORING



**Wisdom leads the times, faith wins the future.**

**GODO Brand  
Always Moving Forward**

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## SCOPE OF APPLICATION

- Oil tanker / passenger car / train discharging
- Chemical industry production
- Waste water disposal/liquid filter
- Large tank/tank area transportation
- Ordinary transportation/supply
- System flush
- Batch processing / mixing
- Package/filler
- Circulation/recycle

**Q: Why choosing generation III pneumatic diaphragm pumps?**

**A:** ◆ Unsealed design

- ◆ Anti-explosion
- ◆ Low shear rate
- ◆ Easy to repair
- ◆ Allow for idle load running
- ◆ Light and convenient
- ◆ Start-up of self-absorption
- ◆ Multi-material selection, suitable for various materials

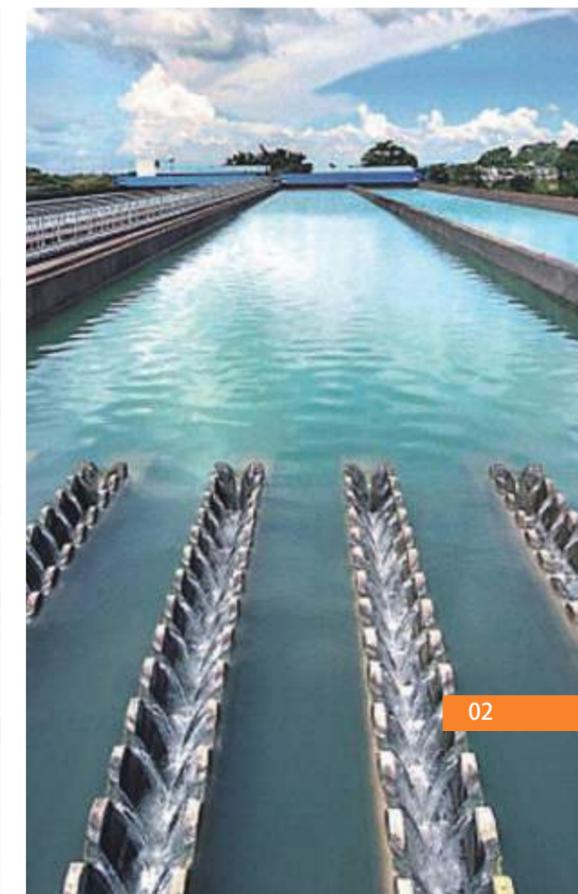
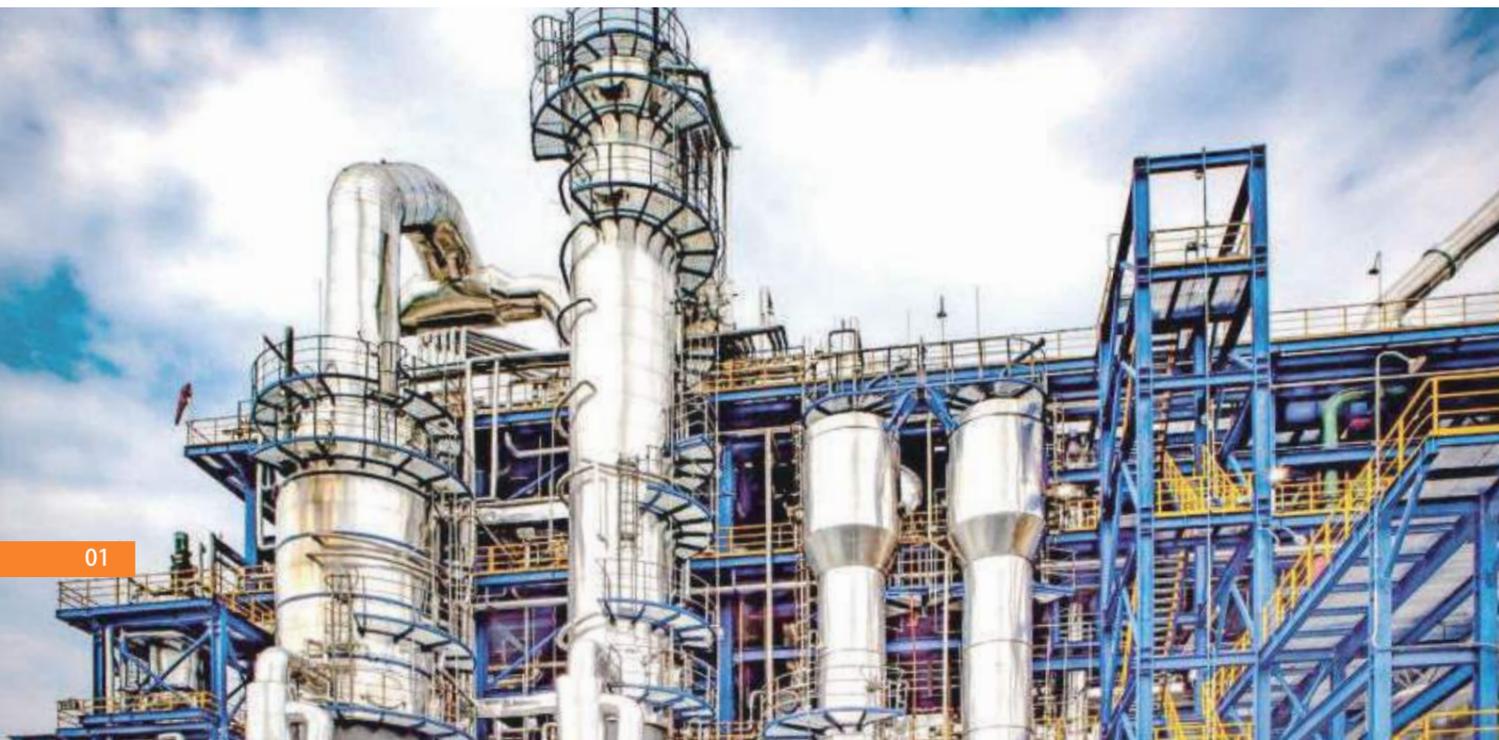
**Q: Why choosing Bianfeng Generation III pneumatic diaphragm pumps?**

**A:** ◆ In the field, BF has the lowest whole lift cost.

- ◆ Worldwide distribution of sales and service network.

### General Industry and OEM Equipment

|                              |   |                             |                      |                   |
|------------------------------|---|-----------------------------|----------------------|-------------------|
| Maritime                     | discharge and transportation                            | ◆ Sewage                    | ◆ Sea water          | ◆ Diesel oil      |
| Electricity                  | discharge and transportation                            | ◆ Waste water               | ◆ Strong acid        | ◆ Strong alkaline |
| Automobile                   | discharge and transportation                            | ◆ Sealant                   | ◆ Adhesive           | ◆ Solvent         |
|                              |   | ◆ Plating liquor            | ◆ Paint              |                   |
| Chemical industry production | supply and transportation                               | ◆ Soap                      | ◆ Cleaning Agent     | ◆ Binder          |
|                              |   | ◆ Printing Ink              | ◆ Cleaning/Polishing |                   |
|                              |   | ◆ Paint/dye                 |                      |                   |
|                              |   | ◆ Shear-sensitive materials |                      |                   |
| Mine                         | discharge   | ◆ Sewage                    | ◆ Trubid water       | ◆ Thin slurry     |
| Medicine                     | supply and transportation of food and medicine material | ◆ FDA material              |                      |                   |





Air reversing valve of BF QBY3/QBF3 Pneumatic ( air operated ) diaphragm pump features in design with simplicity and high reliability, which makes the whole QBY3 serial products achieve their most reliability in any applications. Reversing valve is a three-dimensional pilot valve that can ensure " no sticky " in a true sense. All parts can be replaced without opening the fluid cavity. Aluminum parts are treated with anodic oxidation and epoxy coatings which can resist corrosion from unclear air.

### Advantages

- ⦿ It could be used in the situation of bad air source and the slider with Derlin material in reversing valve is very robust and compact.
- ⦿ The size of air inlet is from 1/2" to 3" with absolutely no obstacle in air course, which guarantees to change directions easily.
- ⦿ 100% external maintained reversing value.
- ⦿ Compared to other double diaphragm pumps, there are less moving parts.
- ⦿ Pilot-type reversing valve has a long mechanical life which can guarantee its running day by day.
- ⦿ One reversing valve is suitable for various pumps.

### SUPERIORITIES

#### Fluid Intermiscibility

The case material provided includes stainless steel, cast steel, polypropylene, aluminum alloy and so on.

#### Reasonable Sealing Design

Diaphragm could be tightly located and it causes positive liquid sealing effect in pressure-stip forming.

#### Heavy Diaphragm Plate

Clamping reliable diaphragm plate can eliminate any leakage and drop and avoid expensive stop operation time.

#### Valve Rod Design

The stainless valve rod has a longer working life and it has a good anti-corrosion function even in humid air condition.

#### Easy To Position

Bolt connected, self-positioning air and fluid parts.

#### Selection Of Elastic Material

Various selections of valve seats and valve balls can ensure the fluid intermiscibility and reliable sealing which can improve efficiency, ensure a long working life and better suction height.

#### Unique-patent Air Valve

It adopts pilot-type air valve which can eliminate the problem of shut-down and there is no need to open internal cavity for the replacement of all parts and to lubricate air lines.

#### Convenient Maintenance

It can reduce the waste of resources by lower inner capacity and is easy to clean; provide reasonable positioning, which is convenient to reassemble.

#### Precision Parts

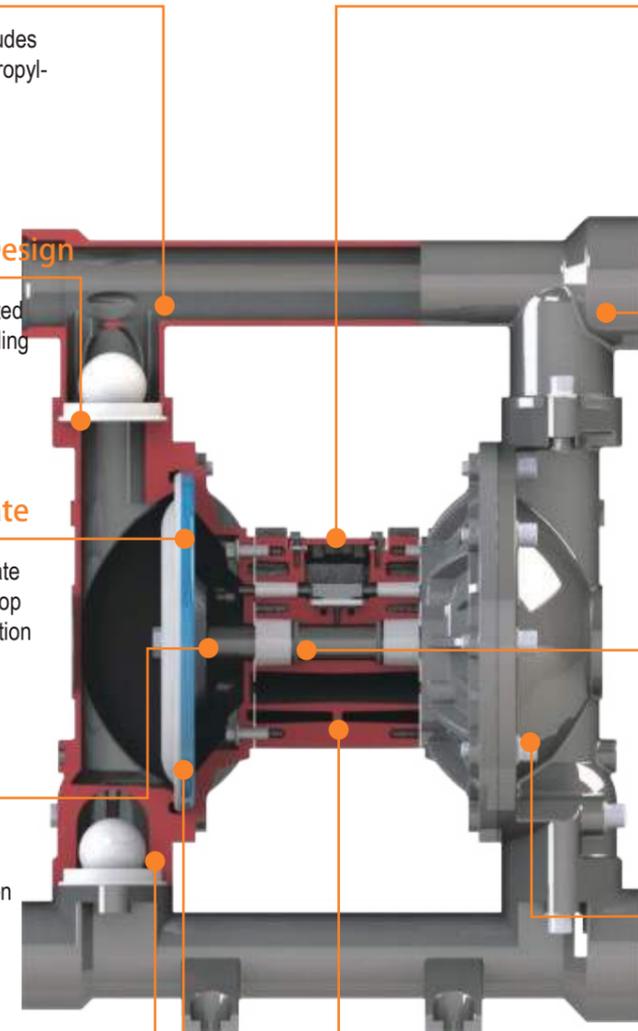
Wear-resisting end step bearing ensures the correct position of valve rod and is easy to replace.

#### Compact External Structure

The structure is anti-corrosion, anti-leakage and easy to be cleaned and color-changed. Dipped parts and air cavity after the special process treatment can endure risk in the bad operation environment.

#### Protected Drain Outlet

All the drain outlets use one common port that can prevent the indoor vaporized liquid from eroding the sealing elements of air motor and facilitate idling of storage tank loading or unloading operations.





### Fluid Contact Parts

| Cast Steel | Nodular Cast Iron | Aluminum Alloy | Engineering Plastics | Stainless Steel 304 | Stainless Steel 316 | Stainless Steel 316L | PVDF |
|------------|-------------------|----------------|----------------------|---------------------|---------------------|----------------------|------|
| G          | Q                 | L              | S                    | P                   | P316                | P316L                | F    |

### Diaphragm Materials

| Butyronitrile | Santoprene         | Polyether                | Teflon            | Super Teflon            |
|---------------|--------------------|--------------------------|-------------------|-------------------------|
| D             | A                  | M                        | T                 | N                       |
| EPDM          | Santoprene +Teflon | Santoprene +Super Teflon | Polyether +Teflon | Polyether +Super Teflon |
| S             | T                  | N                        | K                 | H                       |

### Valve Ball

| Butyronitrile | Santoprene | PTFE | Stainless Steel 304 | Stainless Steel 316 | Stainless Steel 316L | Engineering Plastics |
|---------------|------------|------|---------------------|---------------------|----------------------|----------------------|
| D             | A          | F    | P                   | P316                | P316L                | S                    |

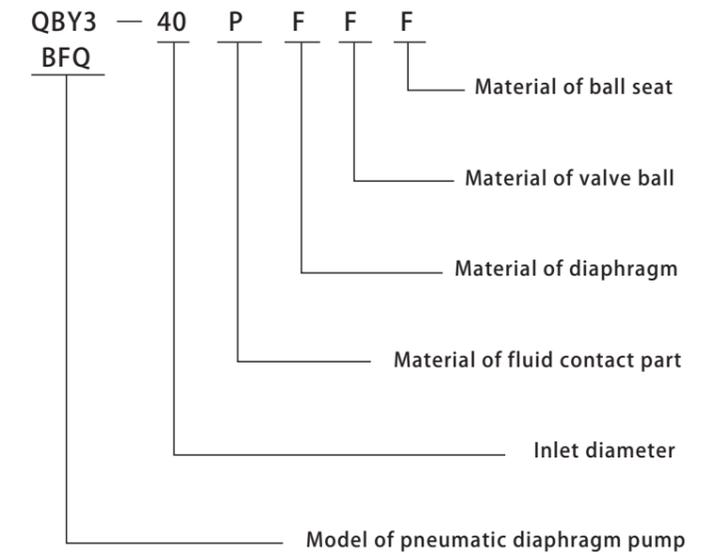
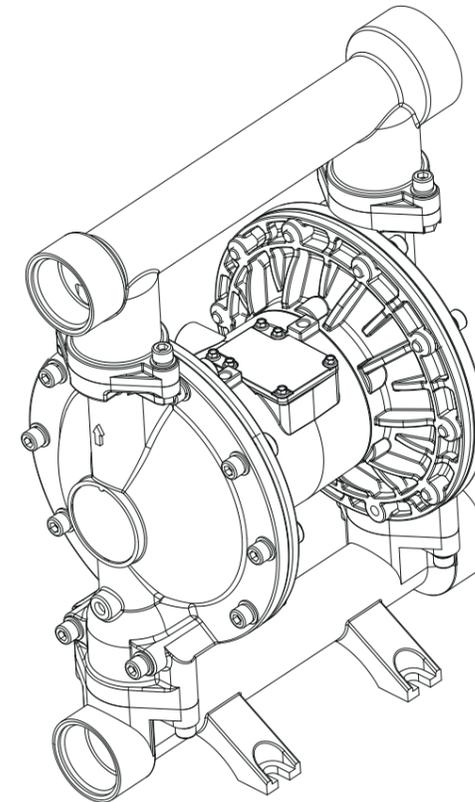
### Valve Seat

| Butyronitrile | Santoprene | PTFE | Stainless Steel 304 | Stainless Steel 316 | Stainless Steel 316L | Engineering Plastics |
|---------------|------------|------|---------------------|---------------------|----------------------|----------------------|
| D             | A          | F    | P                   | P316                | P316L                | S                    |



## DESIGNATION

### Designation





# QBY4-10 QBY4-15

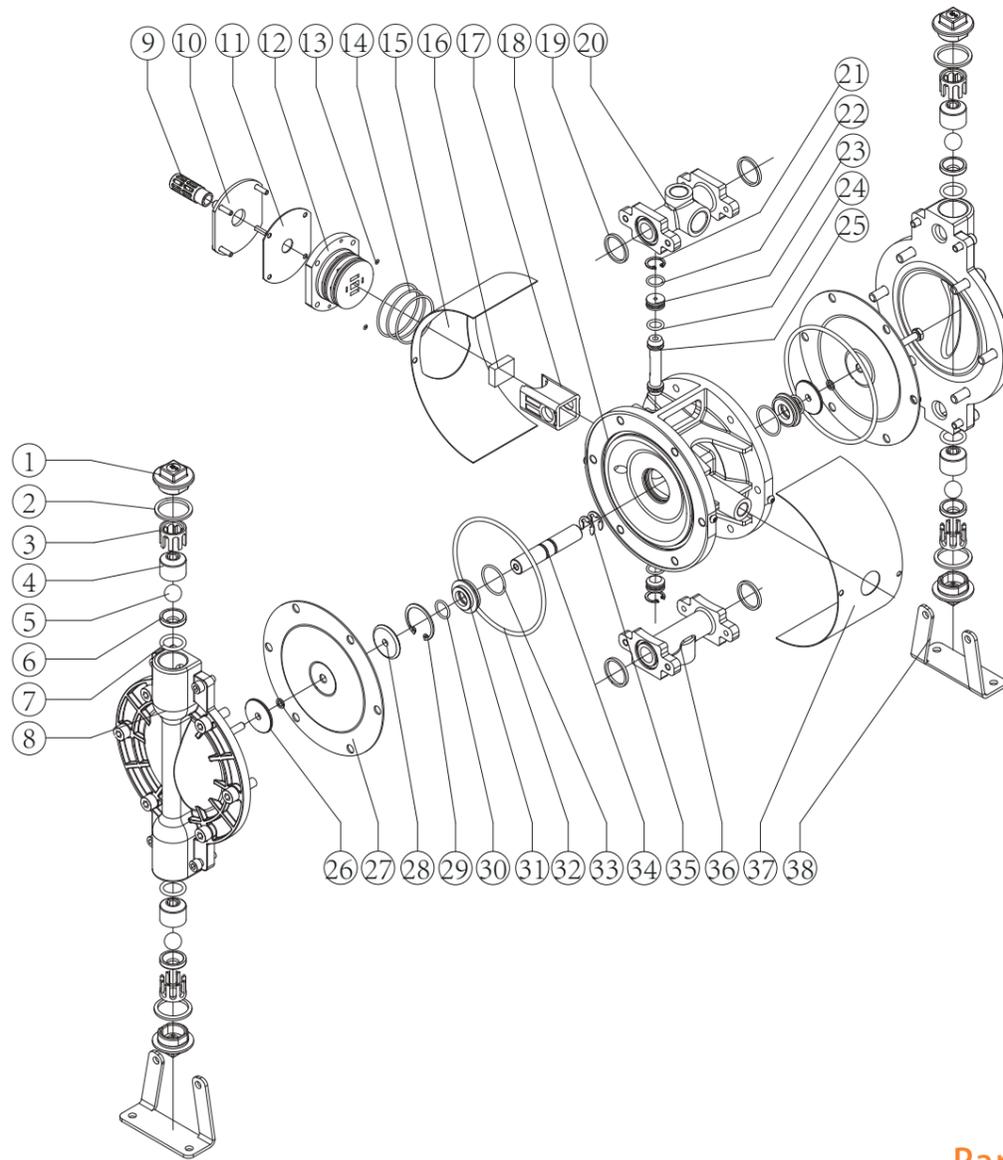
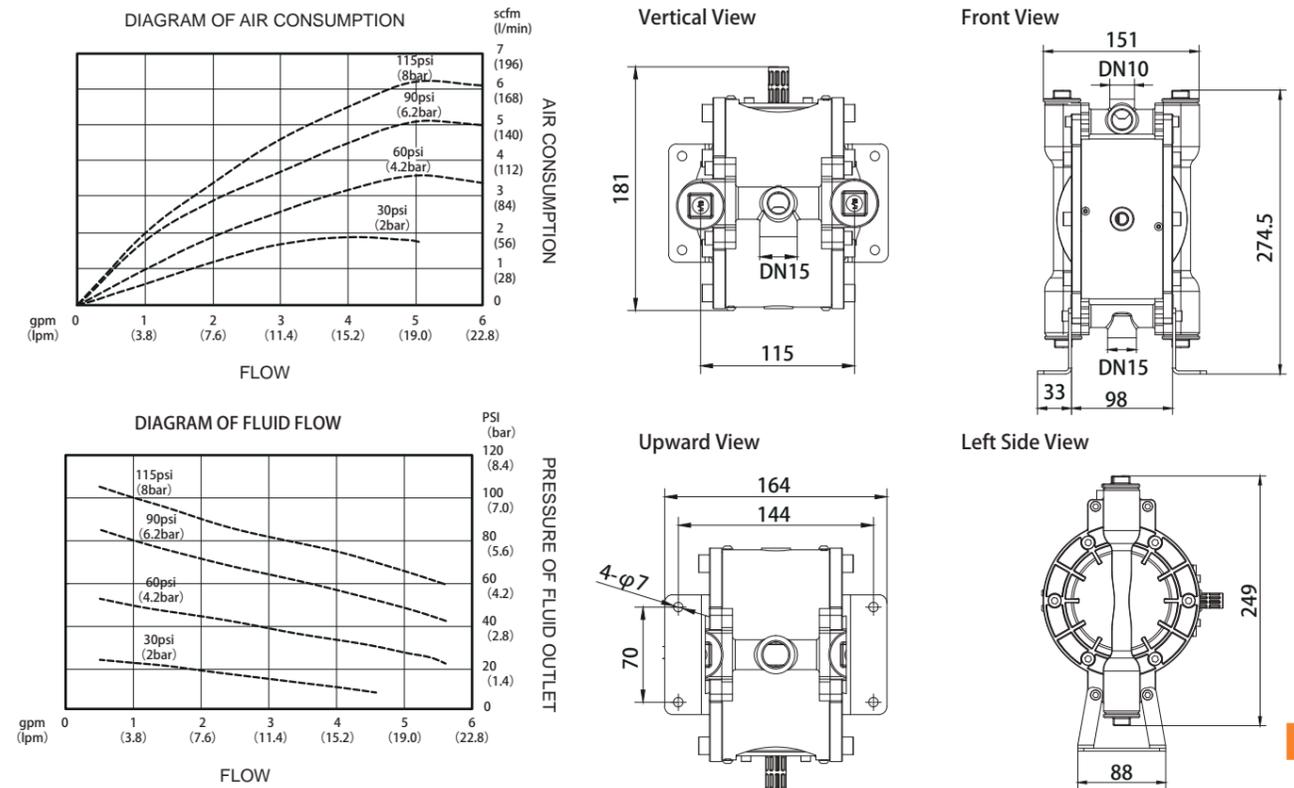
Aluminum alloy / Stainless steel / Cast steel

## Specifications

|                          | QBY4-10                  | QBY4-15                  |
|--------------------------|--------------------------|--------------------------|
| Max. Flow Rate           | 22 lpm                   | 22 lpm                   |
| Max. Head                | 70 m                     | 70 m                     |
| Max. Suction Height      | 4.0 m                    | 4.0 m                    |
| Max. Working Pressure    | 7 bar                    | 7 bar                    |
| Fluid Inlet/Outlet Size  | DN10 (3/8" )             | DN15 (1/2" )             |
| Air Inlet Size           | 1/4" G (bspp)            | 1/4" G (bspp)            |
| Max. Permitted Grain     | 1.5 mm                   | 1.5 mm                   |
| Max. Air Consumption     | 0.18 m <sup>3</sup> /min | 0.18 m <sup>3</sup> /min |
| Air Compressor Power     | 2.2 kw                   | 2.2 kw                   |
| Every Reciprocating Flow | 0.06 L                   | 0.06 L                   |
| Max. Reciprocating Speed | 372 cpm                  | 372 cpm                  |

Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF

## Installation dimensions



## Parts List

| No. | Name                                    | No. | Name                                    | No. | Name                         | No. | Name                      |
|-----|---|-----|---|-----|------------------------------|-----|---------------------------|
| 01  | Outer Hex Plug                          | 02  | Plug Sealing Ring                       | 03  | Sleeve                       | 04  | Ball Sleeve               |
| 05  | PTFE Ball                               | 06  | Ball Seat                               | 07  | Ball Seat O-ring             | 08  | Stand Column              |
| 09  | Muffler                                 | 10  | Air Valve Cover Plate                   | 11  | Air Valve Cover Washer       | 12  | Air Valve Cover           |
| 13  | Air Valve Chamber Small O-ring          | 14  | Air Valve Cover O-ring                  | 15  | Air Valve Protecting Cover A | 16  | Small Slider              |
| 17  | Large Slider Seat                       | 18  | Air Valve Chamber                       | 19  | Sealing Ring                 | 20  | Outlet Manifold           |
| 21  | Piston Plug Circlip                     | 22  | Piston O-ring                           | 23  | Piston Plug                  | 24  | Piston O-ring             |
| 25  | Piston                                  | 26  | Stainless Steel Outer Pressure Plate    | 27  | Teflon Diaphragm             | 28  | Iron Inner Pressure Plate |
| 29  | Connecting Rod Axis Sleeve Circlip      | 30  | Connecting Rod Axis Sleeve Small O-ring | 31  | Connecting Rod Axis Sleeve   | 32  | Diaphragm Sealing Ring    |
| 33  | Connecting Rod Axis Sleeve Large O-ring | 34  | Connecting Rod Axis                     | 35  | Connecting Rod Axis Circlip  | 36  | Inlet Manifold            |
| 37  | Protecting Cover B                      | 38  | Supporting Leg                          |     |                              |     |                           |



# QBY3-20 QBY3-25

## Engineering plastics/Fluorine plastic

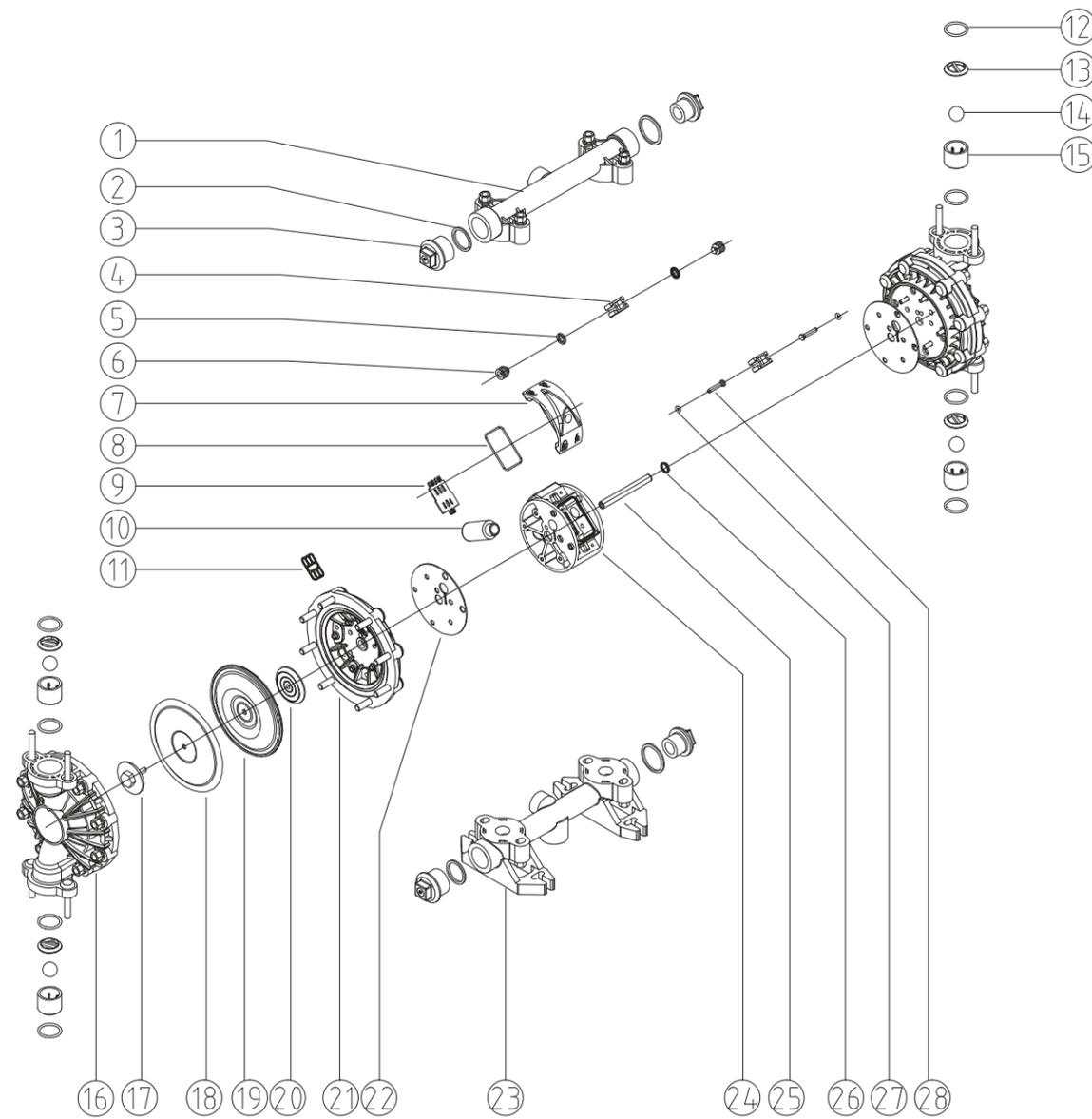
### Specifications

|                          | QBY3-20                  | QBY3-25                  |
|--------------------------|--------------------------|--------------------------|
| Max. Flow Rate           | 57 lpm                   | 57 lpm                   |
| Max. Head                | 70 m                     | 70 m                     |
| Max. Suction Height      | 4.5 m                    | 4.5 m                    |
| Max. Working Pressure    | 7 bar                    | 7 bar                    |
| Fluid Inlet/Outlet Size  | DN20 (3/4" )             | DN25 (1" )               |
| Air Inlet Size           | 1/4" G (bspp)            | 1/4" G (bspp)            |
| Max. Permitted Grain     | 2.5 mm                   | 2.5 mm                   |
| Max. Air Consumption     | 0.36 m <sup>3</sup> /min | 0.36 m <sup>3</sup> /min |
| Air Compressor Power     | 3 kw                     | 3 kw                     |
| Every Reciprocating Flow | 0.15 L                   | 0.15 L                   |
| Max. Reciprocating Speed | 400 cpm                  | 400 cpm                  |

Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF



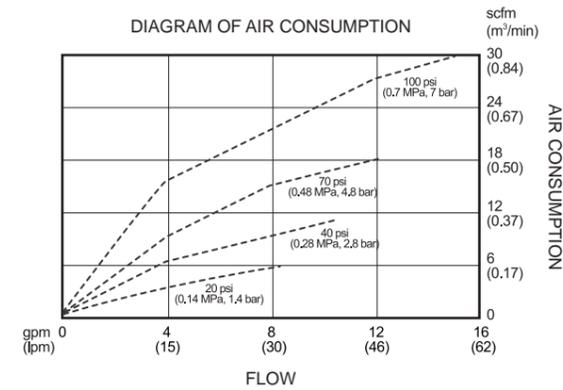
Fluorine plastic



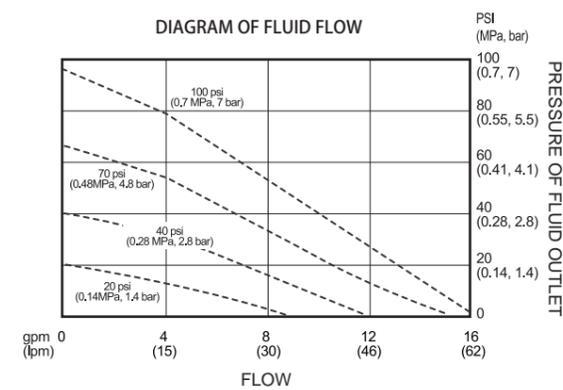
### Parts List

| No. | Name                   | No. | Name                       | No. | Name                       | No. | Name                   |
|-----|------------------------|-----|----------------------------|-----|----------------------------|-----|------------------------|
| 01  | Outlet Manifold        | 02  | Plug Sealing Ring          | 03  | Plug                       | 04  | Small Slider           |
| 05  | Piston V-ring          | 06  | Piston                     | 07  | Air Valve Cover            | 08  | Air Valve Cover O-ring |
| 09  | Boot Block             | 10  | Muffler                    | 11  | Boot Block Washer          | 12  | Ball Seat Sealing Ring |
| 13  | Ball Seat Baffle Plate | 14  | Ball Valve                 | 15  | Ball Seat Sleeve           | 16  | Stand Column           |
| 17  | Outer Splint           | 18  | Teflon Diaphragm           | 19  | Santoprene Diaphragm       | 20  | Inner Splint           |
| 21  | Clap Board             | 22  | Air Valve Chamber Washer   | 23  | Inlet Manifold             | 24  | Air Valve Chamber      |
| 25  | Connecting Rod Axis    | 26  | Connecting Rod Axis V-ring | 27  | Booster Power Lever O-ring | 28  | Booster Power Lever    |

#### DIAGRAM OF AIR CONSUMPTION

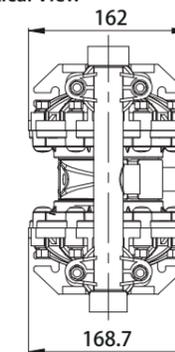


#### DIAGRAM OF FLUID FLOW

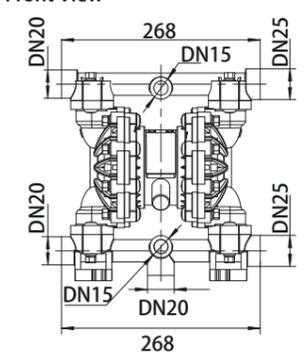


### Installation dimensions

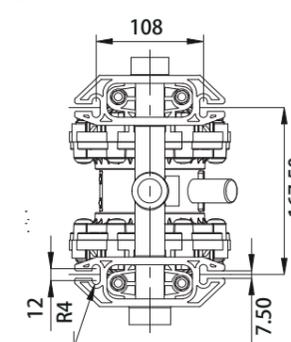
#### Vertical View



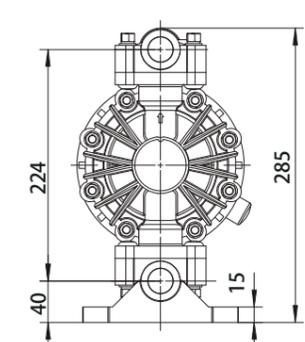
#### Front View



#### Upward View



#### Left Side View





# QBY3-25 Fluorine plastic (PVDF)

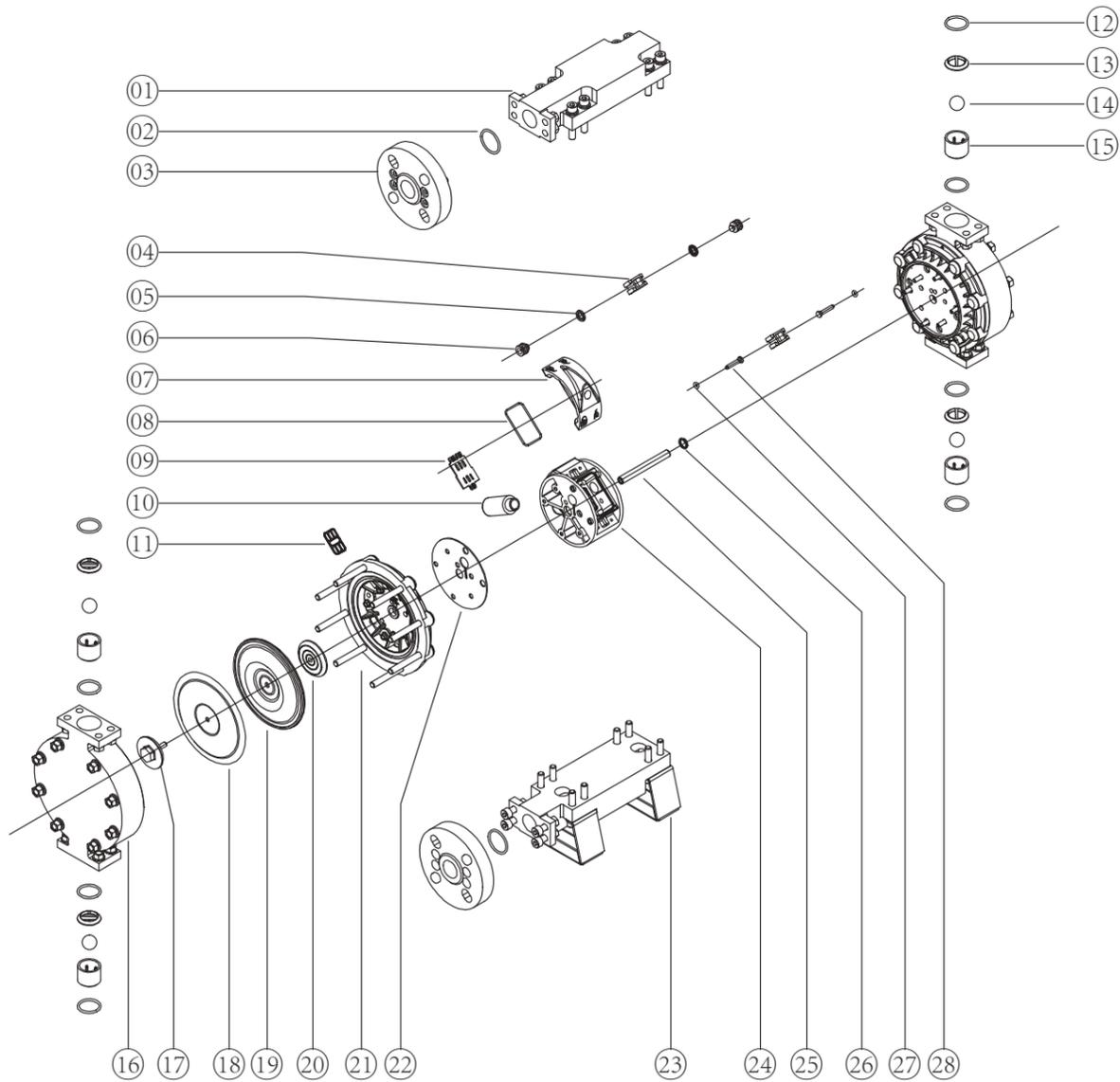
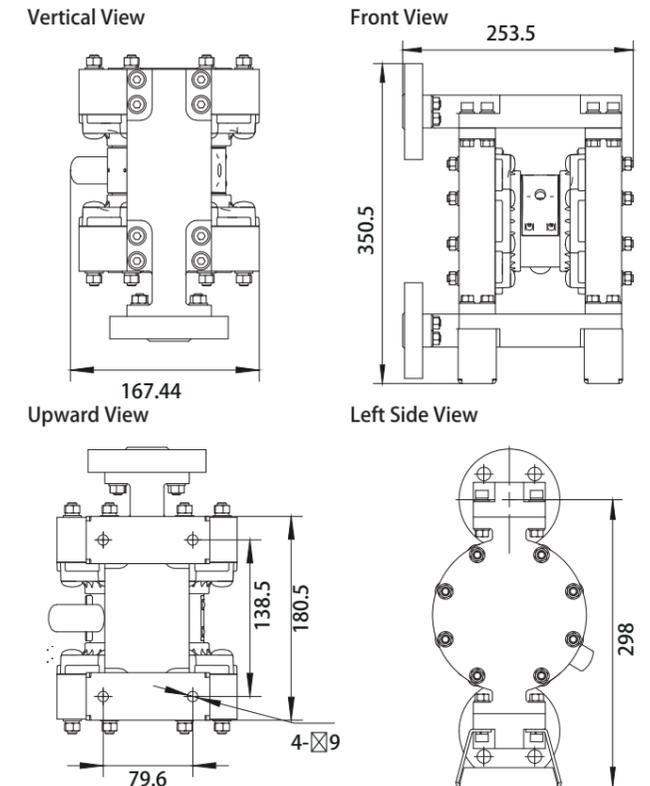
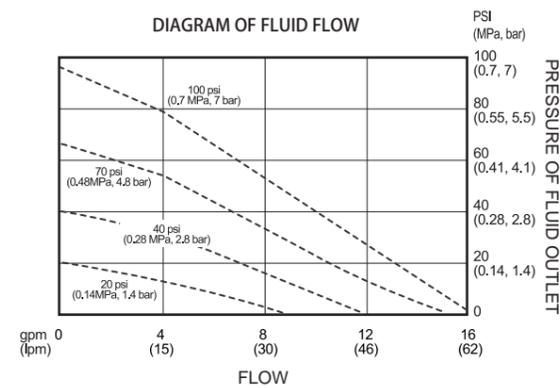
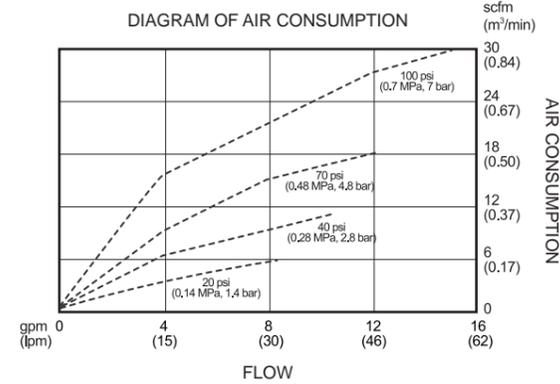
## Specifications

| QBY3-25  |                          |
|--|--------------------------|
| Max. Flow Rate   | 57 lpm                   |
| Max. Head  | 70 m                     |
| Max. Suction Height  | 4.5 m                    |
| Max. Working Pressure  | 7 bar                    |
| Fluid Inlet/Outlet Size  | DN25 (1" )               |
| Air Inlet Size   | 1/4" G (bspp)            |
| Max. Permitted Grain   | 2.5 mm                   |
| Max. Air Consumption   | 0.36 m <sup>3</sup> /min |
| Air Compressor Power   | 3 kw                     |
| Every Reciprocating Flow   | 0.15 L                   |
| Max. Reciprocating Speed   | 400 cpm                  |
| Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF |                          |



Fluorine plastic

## Installation dimensions



## Parts List

| No. | Name                | No. | Name                       | No. | Name                       | No. | Name                   |
|-----|---------------------|-----|----------------------------|-----|----------------------------|-----|------------------------|
| 01  | Outlet Manifold     | 02  | Flange Sealing Ring        | 03  | Flange                     | 04  | Small Slider           |
| 05  | Piston V-ring       | 06  | Piston                     | 07  | Air Valve Cover            | 08  | Air Valve Cover O-ring |
| 09  | Boot Block          | 10  | Muffler                    | 11  | Boot Block Washer          | 12  | Ball Seat Sealing Ring |
| 13  | Ball Cover          | 14  | Ball Valve                 | 15  | Ball Sleeve                | 16  | Stand Column           |
| 17  | Splint Screw        | 18  | Teflon Diaphragm           | 19  | Santoprene Diaphragm       | 20  | Inner Splint           |
| 21  | Clap Board          | 22  | Air Valve Chamber Washer   | 23  | Supporting Leg             | 24  | Air Valve Chamber      |
| 25  | Connecting Rod Axis | 26  | Connecting Rod Axis V-ring | 27  | Booster Power Lever O-ring | 28  | Booster Power Lever    |



# QBY3-20 QBY3-25 Aluminum alloy

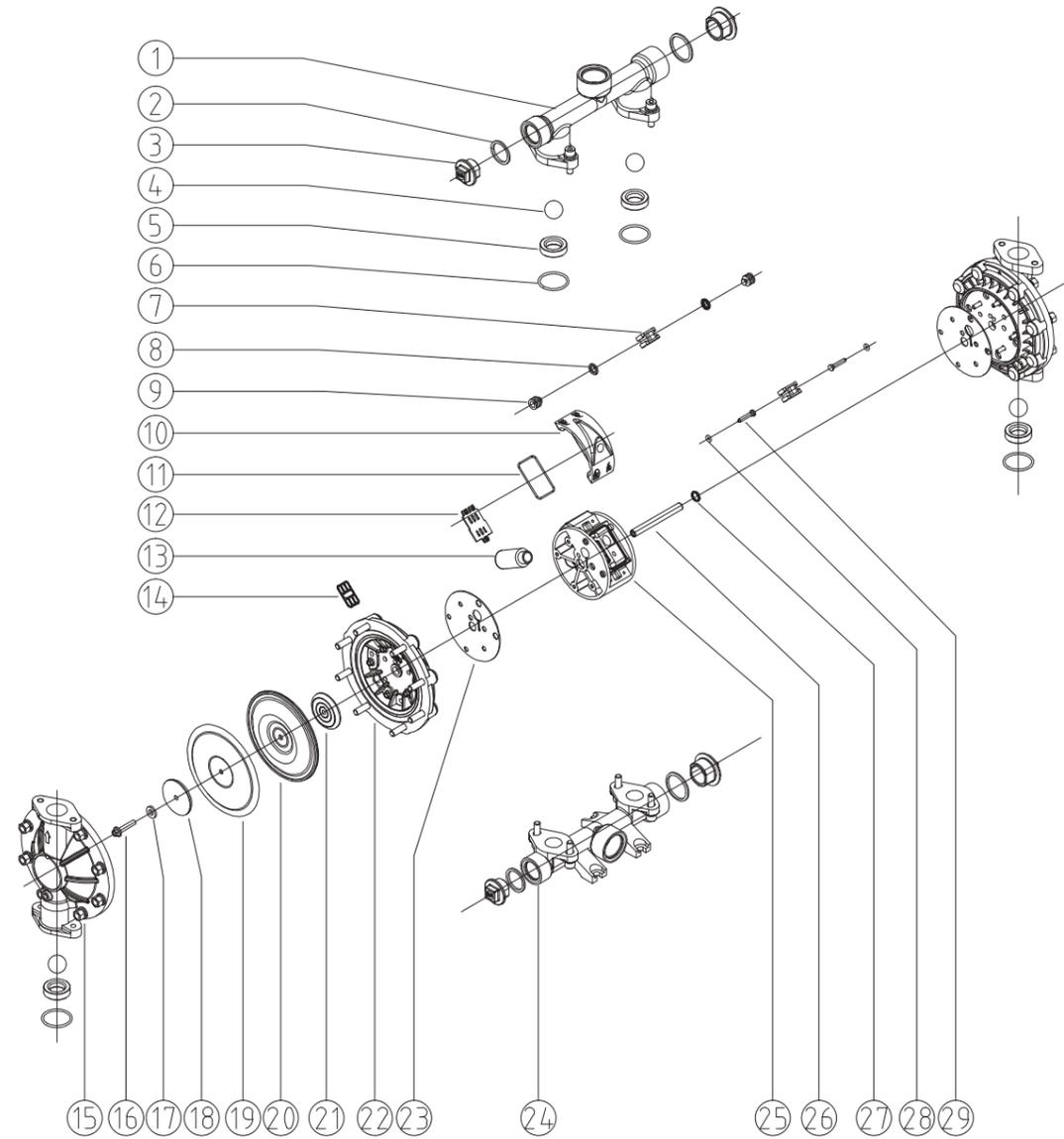
## Specifications

|                          | QBY3-20                  | QBY3-25                  |
|--------------------------|--------------------------|--------------------------|
| Max. Flow Rate           | 57 lpm                   | 57 lpm                   |
| Max. Head                | 70 m                     | 70 m                     |
| Max. Suction Height      | 4.5 m                    | 4.5 m                    |
| Max. Working Pressure    | 7 bar                    | 7 bar                    |
| Fluid Inlet/Outlet Size  | DN20 (3/4" )             | DN25 (1" )               |
| Air Inlet Size           | 1/4" G (bspp)            | 1/4" G (bspp)            |
| Max. Permitted Grain     | 2.5 mm                   | 2.5 mm                   |
| Max. Air Consumption     | 0.36 m <sup>3</sup> /min | 0.36 m <sup>3</sup> /min |
| Air Compressor Power     | 3 kw                     | 3 kw                     |
| Every Reciprocating Flow | 0.15 L                   | 0.15 L                   |
| Max. Reciprocating Speed | 400 cpm                  | 400 cpm                  |

Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF



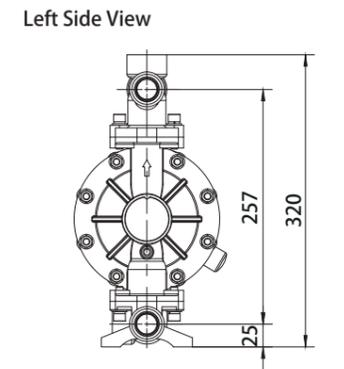
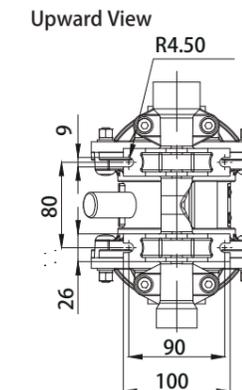
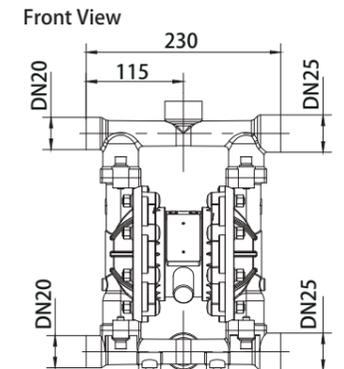
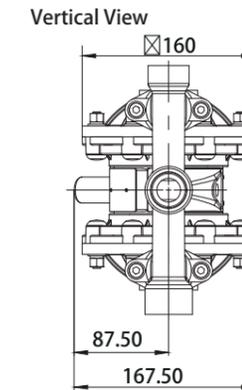
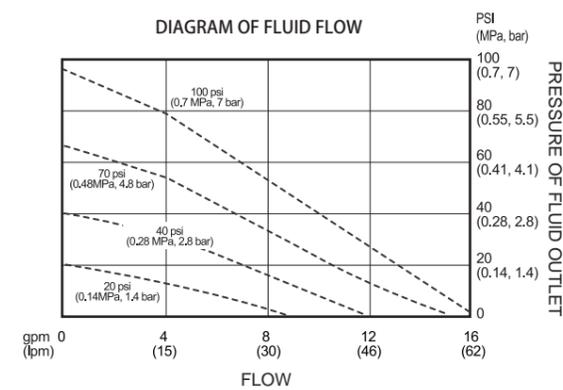
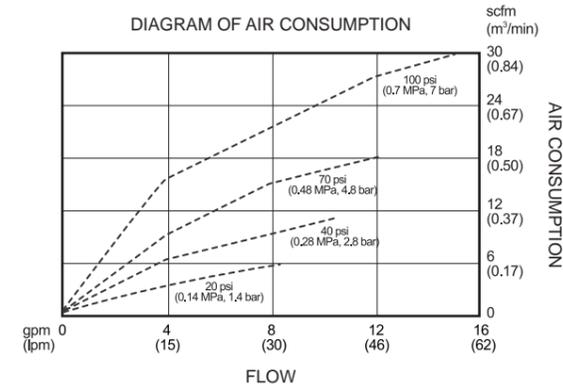
Aluminum alloy



## Parts List

| No. | Name                | No. | Name                   | No. | Name                       | No. | Name                       |
|-----|---------------------|-----|------------------------|-----|----------------------------|-----|----------------------------|
| 01  | Outlet Manifold     | 02  | Plug Sealing Ring      | 03  | Plug                       | 04  | Ball Valve                 |
| 05  | Ball Seat           | 06  | Ball Seat Sealing Ring | 07  | Small Slider               | 08  | Piston V-ring              |
| 09  | Piston              | 10  | Air Valve Cover        | 11  | Air Valve Cover O-ring     | 12  | Boot Block                 |
| 13  | Muffler             | 14  | Boot Block Washer      | 15  | Stand Column               | 16  | Splint Screw               |
| 17  | Splint O-ring       | 18  | Outer Splint           | 19  | Teflon Diaphragm           | 20  | Santoprene Diaphragm       |
| 21  | Inner Splint        | 22  | Clap Board             | 23  | Air Valve Chamber Washer   | 24  | Inlet Manifold             |
| 25  | Air Valve Chamber   | 26  | Connecting Rod Axis    | 27  | Connecting Rod Axis V-ring | 28  | Booster Power Lever O-ring |
| 29  | Booster Power Lever |     |                        |     |                            |     |                            |

## Installation dimensions





# QBY3-20 QBY3-25

Stainless steel / Cast steel

## Specifications

|                          | QBY3-20                  | QBY3-25                  |
|--------------------------|--------------------------|--------------------------|
| Max. Flow Rate           | 57 lpm                   | 57 lpm                   |
| Max. Head                | 70 m                     | 70 m                     |
| Max. Suction Height      | 4.5 m                    | 4.5 m                    |
| Max. Working Pressure    | 7 bar                    | 7 bar                    |
| Fluid Inlet/Outlet Size  | DN20 (3/4" )             | DN25 (1" )               |
| Air Inlet Size           | 1/4" G (bspp)            | 1/4" G (bspp)            |
| Max. Permitted Grain     | 2.5 mm                   | 2.5 mm                   |
| Max. Air Consumption     | 0.36 m <sup>3</sup> /min | 0.36 m <sup>3</sup> /min |
| Air Compressor Power     | 3 kw                     | 3 kw                     |
| Every Reciprocating Flow | 0.15 L                   | 0.15 L                   |
| Max. Reciprocating Speed | 400 cpm                  | 400 cpm                  |

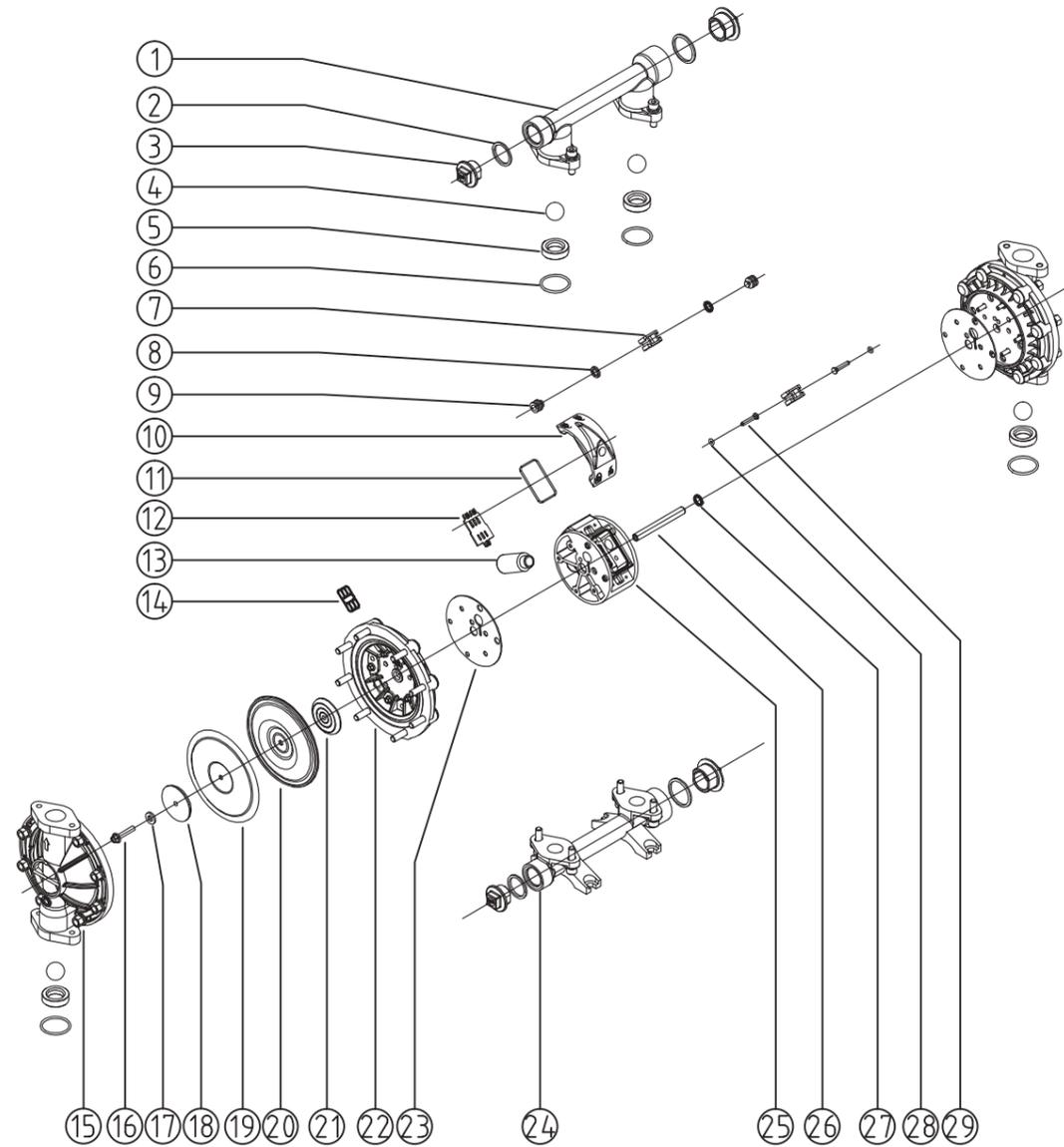
Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF



Stainless steel



Cast steel



## Parts List

| No. | Name                | No. | Name                   | No. | Name                       | No. | Name                       |
|-----|---------------------|-----|------------------------|-----|----------------------------|-----|----------------------------|
| 01  | Outlet Manifold     | 02  | Plug Sealing Ring      | 03  | Plug                       | 04  | Ball Valve                 |
| 05  | Ball Seat           | 06  | Ball Seat Sealing Ring | 07  | Small Slider               | 08  | Piston V-ring              |
| 09  | Piston              | 10  | Air Valve Cover        | 11  | Air Valve Cover O-ring     | 12  | Boot Block                 |
| 13  | Muffler             | 14  | Boot Block Washer      | 15  | Stand Column               | 16  | Splint Screw               |
| 17  | Splint O-ring       | 18  | Outer Splint           | 19  | Teflon Diaphragm           | 20  | Santoprene Diaphragm       |
| 21  | Inner Splint        | 22  | Clap Board             | 23  | Air Valve Chamber Washer   | 24  | Inlet Manifold             |
| 25  | Air Valve Chamber   | 26  | Connecting Rod Axis    | 27  | Connecting Rod Axis V-ring | 28  | Booster Power Lever O-ring |
| 29  | Booster Power Lever |     |                        |     |                            |     |                            |

DIAGRAM OF AIR CONSUMPTION

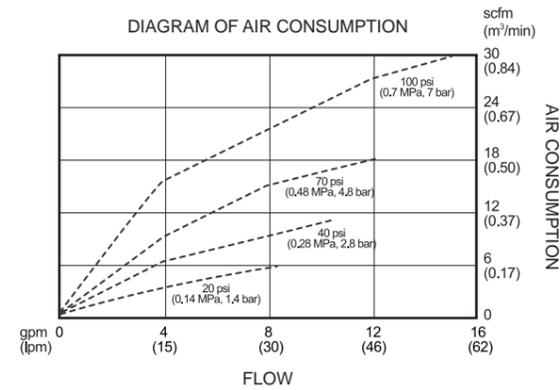
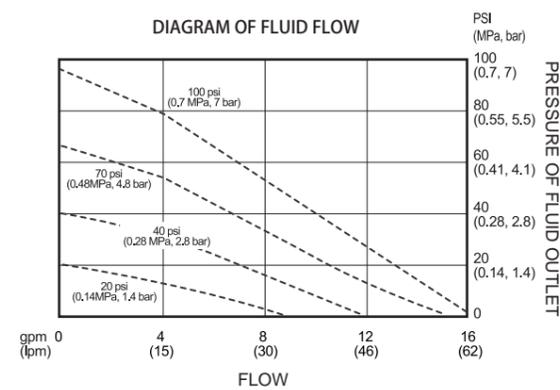
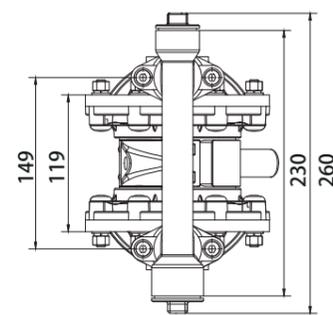


DIAGRAM OF FLUID FLOW

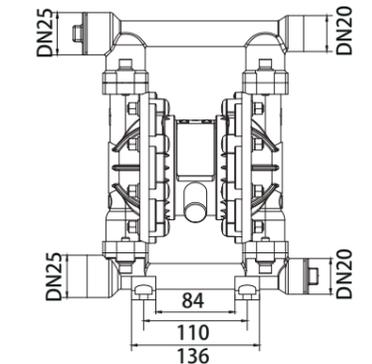


## Installation dimensions

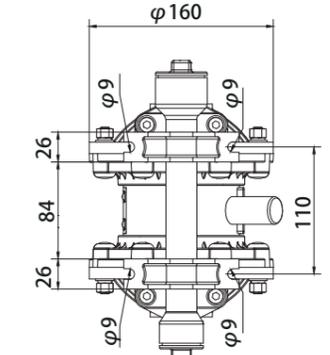
Vertical View



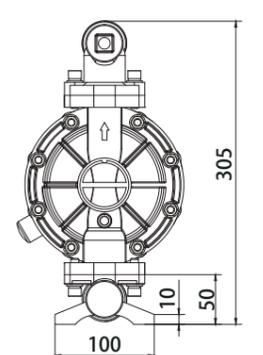
Front View



Upward View



Left Side View





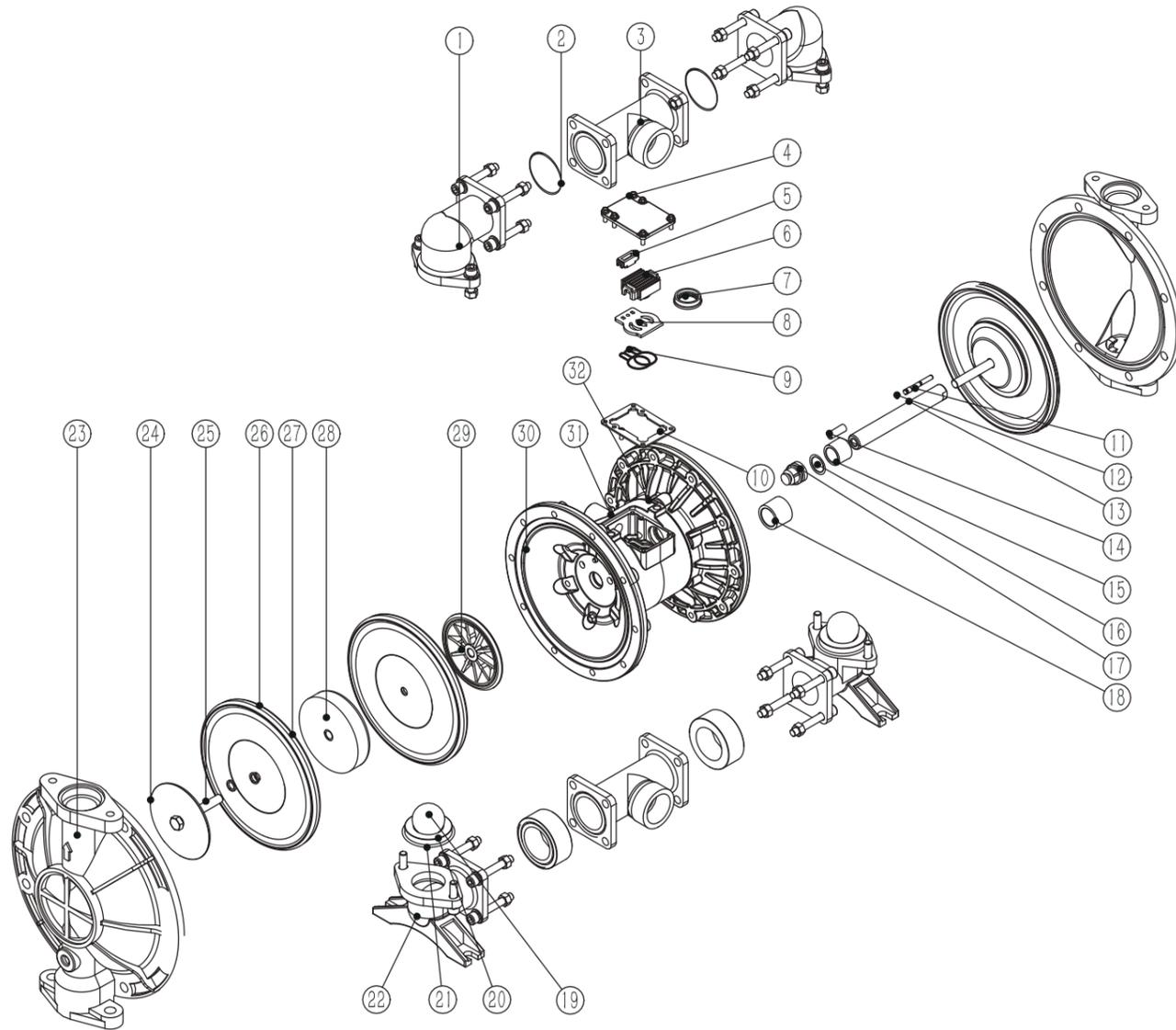
# BFQ-25 Aluminum alloy

## Specifications

|  | BFQ-25                   |
|--|--------------------------|
| Max. Flow Rate   | 116 lpm                  |
| Max. Head  | 84 m                     |
| Max. Suction Height  | 5.48 m                   |
| Max. Working Pressure  | 8.4 bar                  |
| Fluid Inlet/Outlet Size  | DN25 (1" )               |
| Air Inlet Size   | 1/2" G (bspp)            |
| Max. Permitted Grain   | 3.2 mm                   |
| Max. Air Consumption   | 0.67 m <sup>3</sup> /min |
| Air Compressor Power   | 5.5 kw                   |
| Every Reciprocating Flow   | 0.57 L                   |
| Max. Reciprocating Speed   | 276 cpm                  |
| Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF |                          |



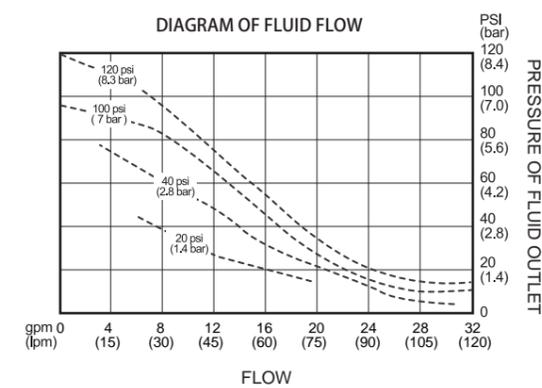
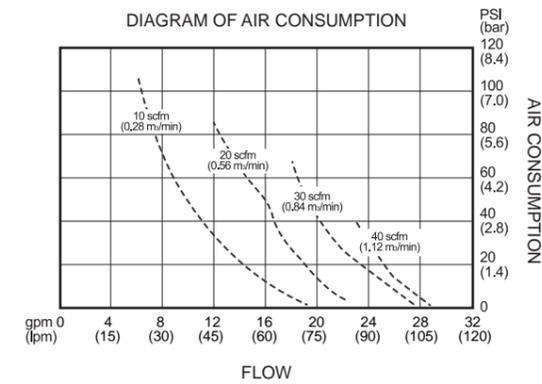
Aluminum alloy



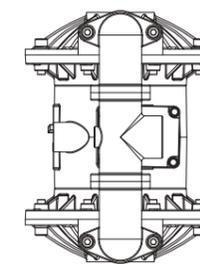
## Parts List

| No. | Name                       | No. | Name                       | No. | Name                       | No. | Name                             |
|-----|----------------------------|-----|----------------------------|-----|----------------------------|-----|----------------------------------|
| 01  | Upper Elbow                | 02  | Sealing Ring               | 03  | Tee                        | 04  | Air Valve Chamber Cover          |
| 05  | Small Slider               | 06  | Large Slider               | 07  | Large Slider Seat          | 08  | Boot Block                       |
| 09  | Boot Block Washer          | 10  | Air Valve Chamber Washer   | 11  | Booster Power Lever        | 12  | Booster Power Lever Sealing Ring |
| 13  | Connecting Rod Axis        | 14  | Booster Power Lever Sleeve | 15  | Connecting Rod Axis Sleeve | 16  | V-ring                           |
| 17  | Piston                     | 18  | Piston Sleeve              | 19  | Ball Valve                 | 20  | Ball Seat                        |
| 21  | Ball Seat Sealing Ring     | 22  | Lower Elbow                | 23  | Stand Column               | 24  | Outer Pressure Plate             |
| 25  | Outer Pressure Plate Screw | 26  | Santoprene Diaphragm       | 27  | Teflon Diaphragm           | 28  | Clap Board                       |
| 29  | Inner Pressure Plate       | 30  | Clap Board                 | 31  | Air Valve Chamber          | 32  | Air Valve Chamber Washer         |

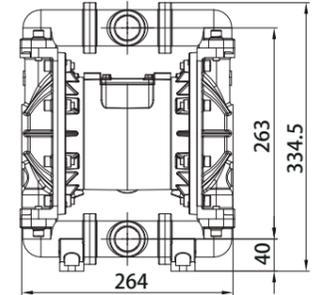
## Installation dimensions



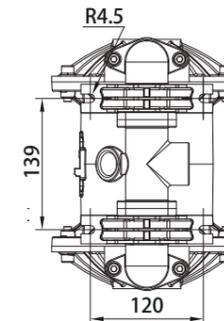
Vertical View



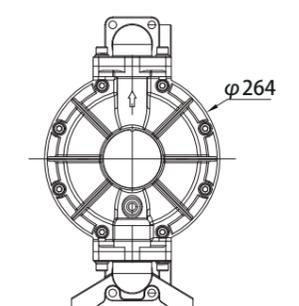
Front View



Upward View



Left Side View

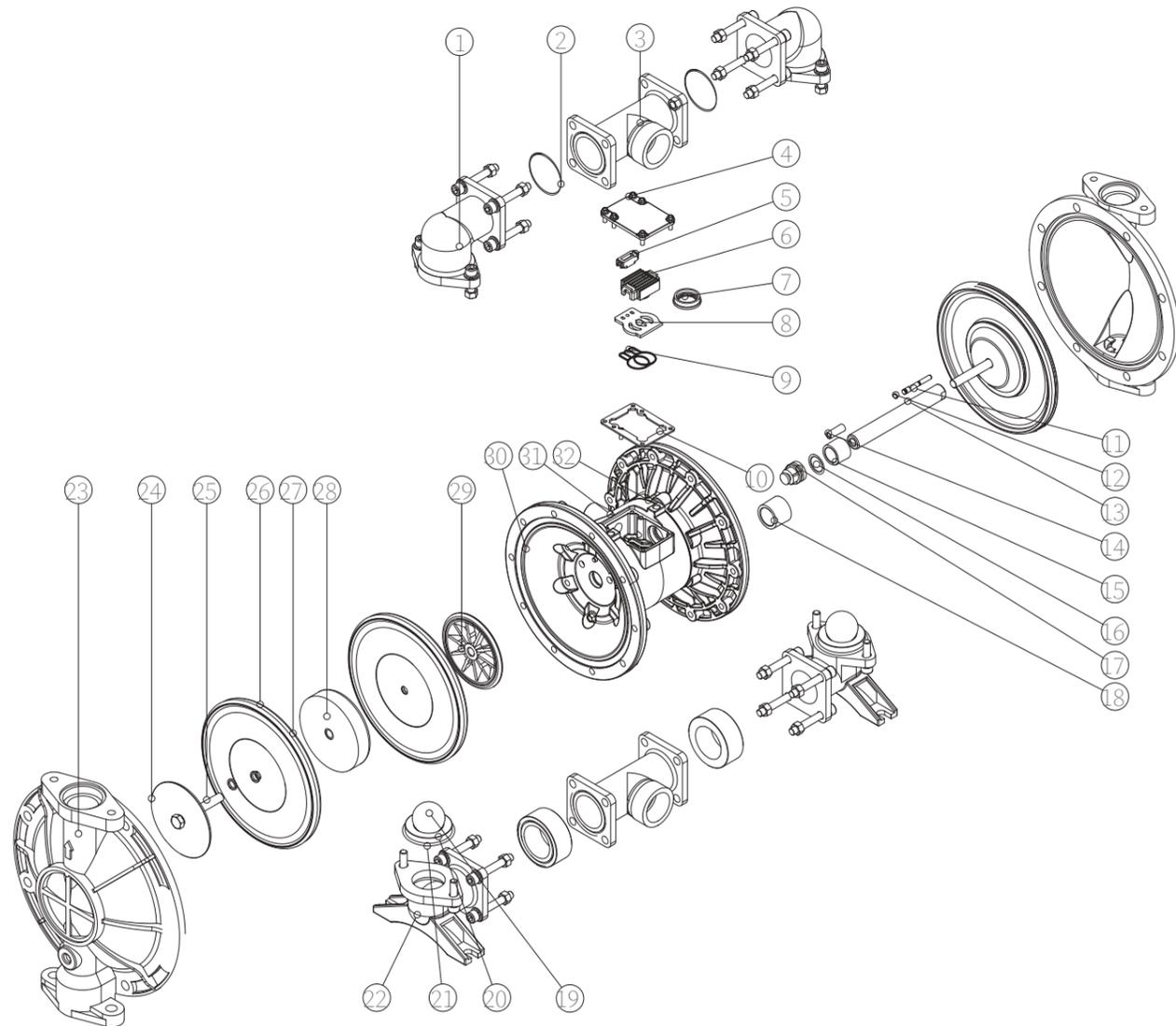




# BFQ-25 Stainless steel / Cast steel

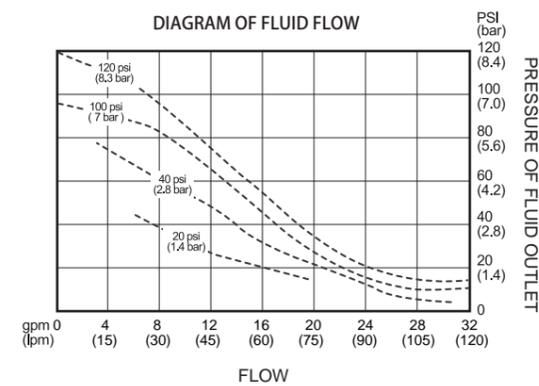
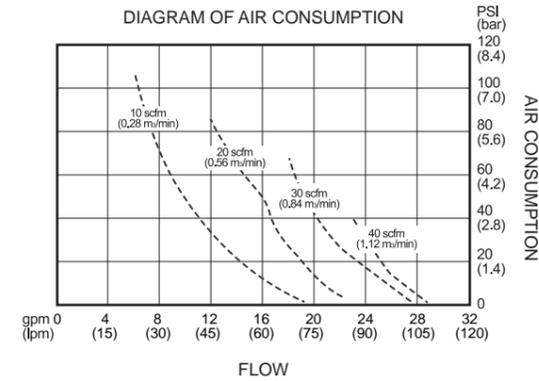
## Specifications

|                                | BFQ-25  |
|--------------------------------|---|
| Max. Flow Rate                 | 116 lpm   |
| Max. Head                      | 84 m  |
| Max. Suction Height            | 5.48 m  |
| Max. Working Pressure          | 8.4 bar   |
| Fluid Inlet/Outlet Size        | DN25 (1" )  |
| Air Inlet Size                 | 1/2" G (bspp)   |
| Max. Permitted Grain           | 3.2 mm  |
| Max. Air Consumption           | 0.67 m <sup>3</sup> /min  |
| Air Compressor Power           | 5.5 kw  |
| Every Reciprocating Flow       | 0.57 L  |
| Max. Reciprocating Speed       | 276 cpm   |
| Pump body structure materials: | Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF |

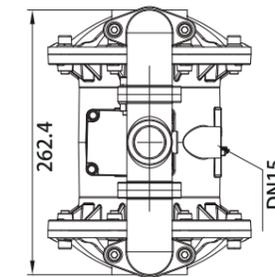


Stainless steel

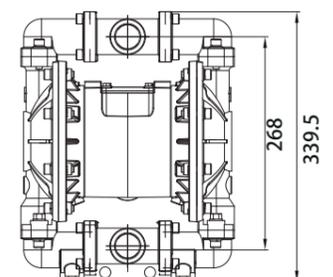
## Installation dimensions



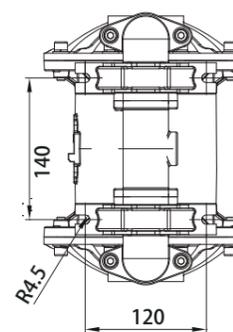
Vertical View



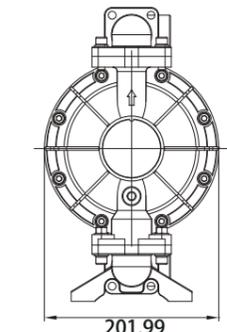
Front View



Upward View



Left Side View



## Parts List

| No. | Name                       | No. | Name                       | No. | Name                       | No. | Name                             |
|-----|----------------------------|-----|----------------------------|-----|----------------------------|-----|----------------------------------|
| 01  | Upper Elbow                | 02  | Sealing Ring               | 03  | Tee                        | 04  | Air Valve Chamber Cover          |
| 05  | Small Slider               | 06  | Large Slider               | 07  | Large Slider Seat          | 08  | Boot Block                       |
| 09  | Boot Block Washer          | 10  | Air Valve Chamber Washer   | 11  | Booster Power Lever        | 12  | Booster Power Lever Sealing Ring |
| 13  | Connecting Rod Axis Piston | 14  | Booster Power Lever Sleeve | 15  | Connecting Rod Axis Sleeve | 16  | V-ring                           |
| 17  | Piston                     | 18  | Piston Sleeve              | 19  | Ball Valve                 | 20  | Ball Seat                        |
| 21  | Ball Seat Sealing Ring     | 22  | Lower Elbow                | 23  | Stand Column               | 24  | Outer Pressure Plate             |
| 25  | Outer Pressure Plate Screw | 26  | Santoprene Diaphragm       | 27  | Teflon Diaphragm           | 28  | Clap Board                       |
| 29  | Inner Pressure Plate       | 30  | Clap Board                 | 31  | Air Valve Chamber          | 32  | Air Valve Chamber Washer         |



# QBY3-32 QBY3-40

Engineering plastics / Fluorine plastic

## Specifications

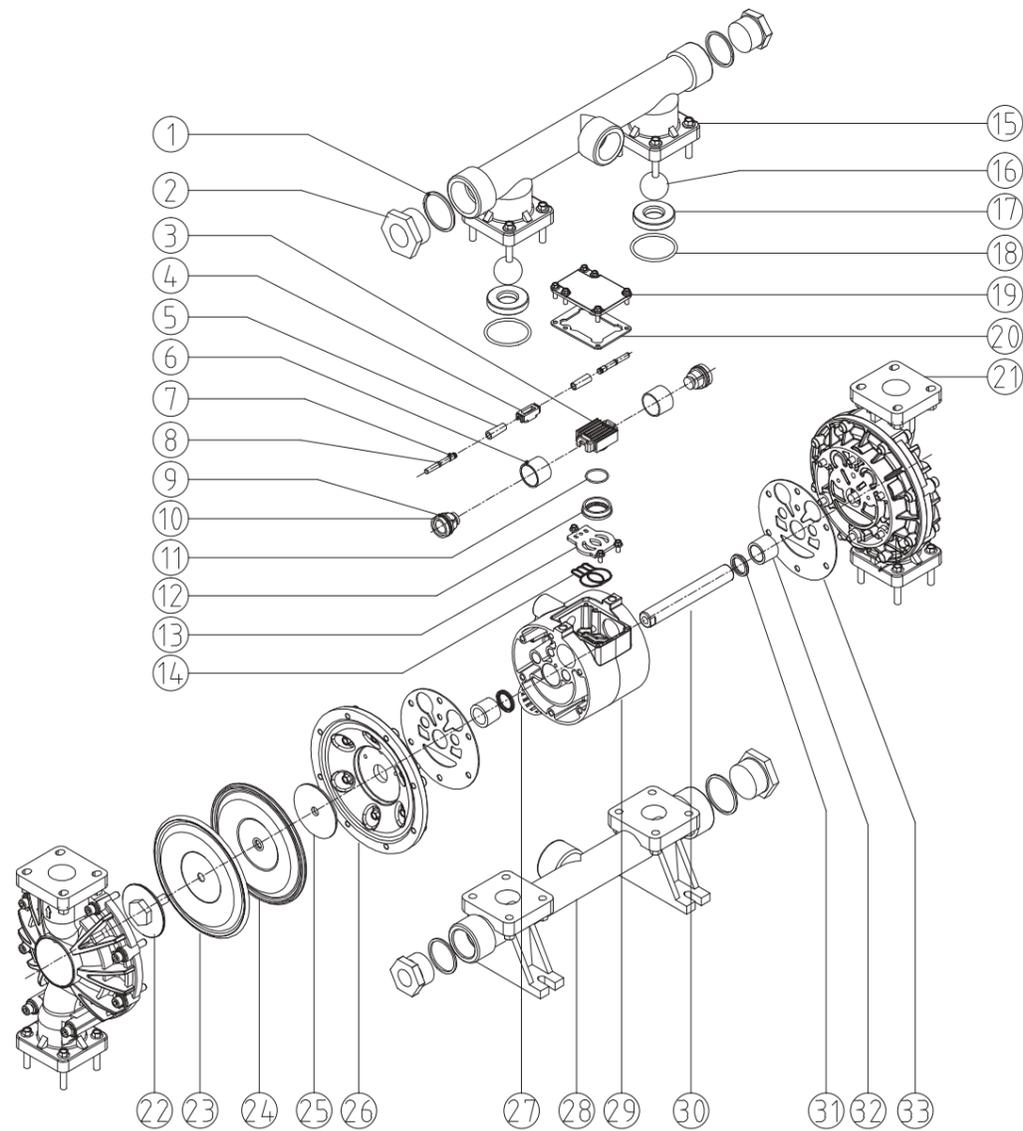
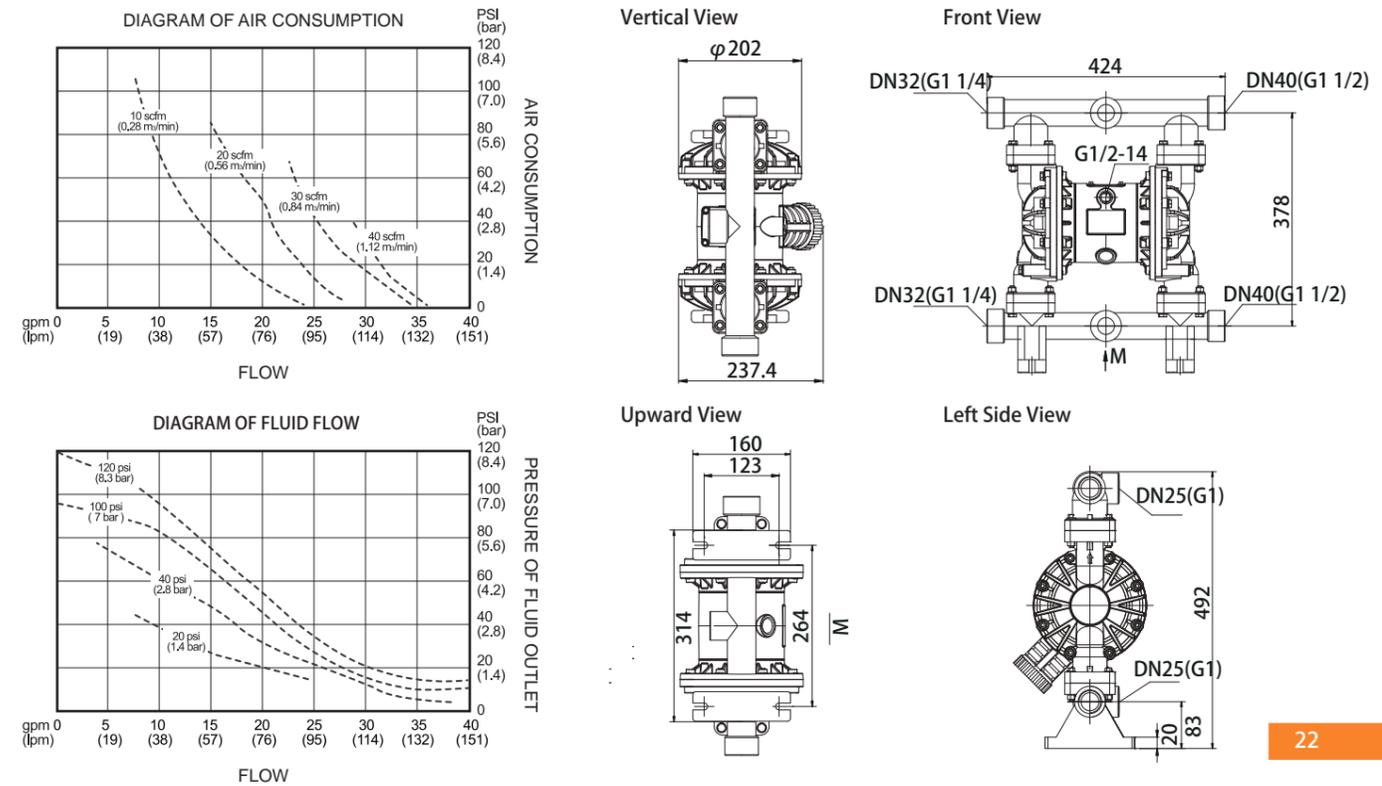
|                          | QBY3-32                  | QBY3-40                  |
|--------------------------|--------------------------|--------------------------|
| Max. Flow Rate           | 151 lpm                  | 151 lpm                  |
| Max. Head                | 84 m                     | 84 m                     |
| Max. Suction Height      | 5.48 m                   | 5.48 m                   |
| Max. Working Pressure    | 8.4 bar                  | 8.4 bar                  |
| Fluid Inlet/Outlet Size  | DN32 (1-1/4" )           | DN40 (1-1/2" )           |
| Air Inlet Size           | 1/2" G (bspp)            | 1/2" G (bspp)            |
| Max. Permitted Grain     | 3.2 mm                   | 3.2 mm                   |
| Max. Air Consumption     | 0.67 m <sup>3</sup> /min | 0.67 m <sup>3</sup> /min |
| Air Compressor Power     | 5.5 kw                   | 5.5 kw                   |
| Every Reciprocating Flow | 0.57 L                   | 0.57 L                   |
| Max. Reciprocating Speed | 276 cpm                  | 276 cpm                  |

Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF



Engineering plastics

## Installation dimensions



## Parts List

| No. | Name                       | No. | Name                   | No. | Name                | No. | Name                       |
|-----|----------------------------|-----|------------------------|-----|---------------------|-----|----------------------------|
| 01  | Plug Sealing Ring          | 02  | Plug                   | 03  | Large Slider        | 04  | Small Slider               |
| 05  | Booster Power Lever Sleeve | 06  | Piston Sleeve          | 07  | Booster Power Lever | 08  | Booster Power Lever O-ring |
| 09  | Piston V-ring              | 10  | Piston                 | 11  | Large Slider O-ring | 12  | Large Slider Seat          |
| 13  | Boot Block                 | 14  | Boot Block Washer      | 15  | Outlet Manifold     | 16  | Ball Valve                 |
| 17  | Ball Seat                  | 18  | Ball Seat Sealing Ring | 19  | Air Valve Cover     | 20  | Air Valve Cover Washer     |
| 21  | Stand Column               | 22  | Outer Splint           | 23  | Teflon Diaphragm    | 24  | Santoprene Diaphragm       |
| 25  | Inner Splint               | 26  | Clap Board             | 27  | Muffler             | 28  | Inlet Manifold             |
| 29  | Air Valve Chamber          | 30  | Connecting Rod Axis    | 31  | V-ring              | 32  | Connecting Rod Axis Sleeve |
| 33  | Air Valve Chamber Washer   |     |                        |     |                     |     |                            |



# QBY3-32 QBY3-40 Aluminum alloy

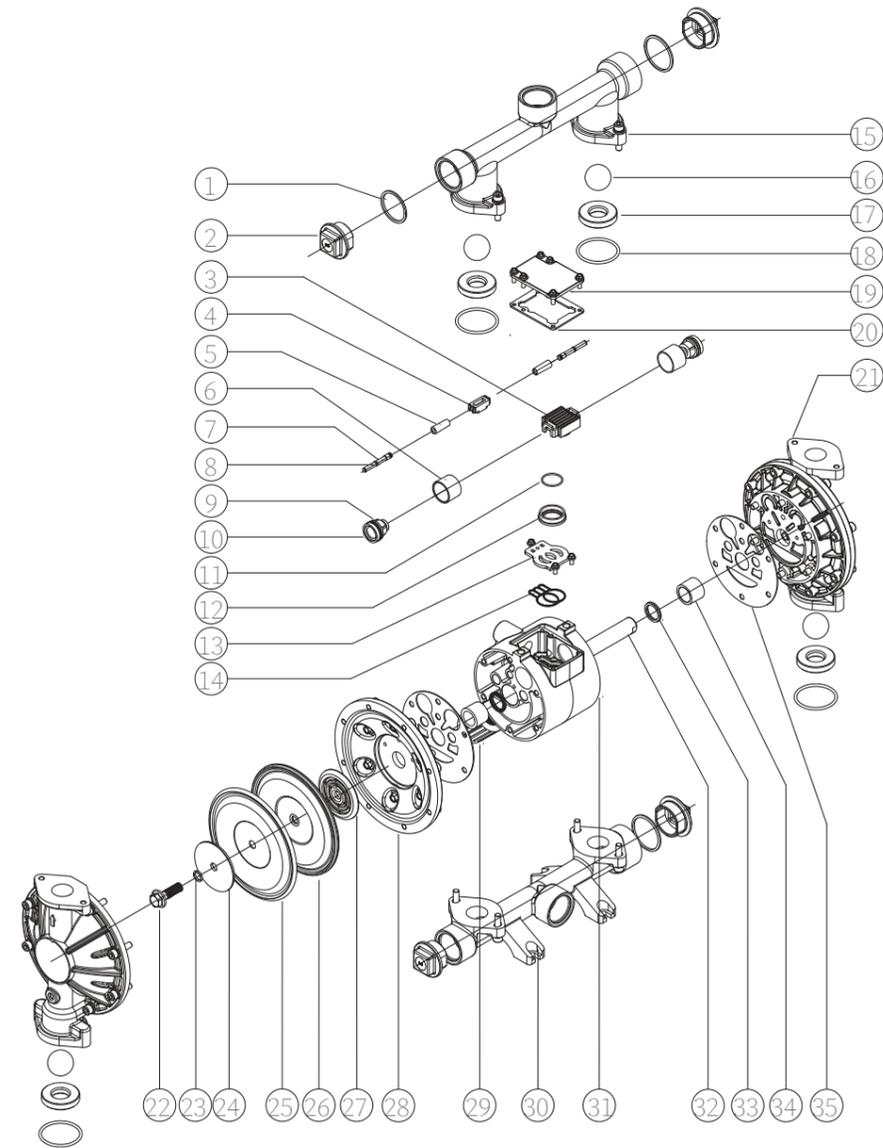
## Specifications

|                          | QBY3-32                  | QBY3-40                  |
|--------------------------|--------------------------|--------------------------|
| Max. Flow Rate           | 151 lpm                  | 151 lpm                  |
| Max. Head                | 84 m                     | 84 m                     |
| Max. Suction Height      | 5.48 m                   | 5.48 m                   |
| Max. Working Pressure    | 8.4 bar                  | 8.4 bar                  |
| Fluid Inlet/Outlet Size  | DN32 (1-1/4" )           | DN40 (1-1/2" )           |
| Air Inlet Size           | 1/2" G (bspp)            | 1/2" G (bspp)            |
| Max. Permitted Grain     | 3.2 mm                   | 3.2 mm                   |
| Max. Air Consumption     | 0.67 m <sup>3</sup> /min | 0.67 m <sup>3</sup> /min |
| Air Compressor Power     | 5.5 kw                   | 5.5 kw                   |
| Every Reciprocating Flow | 0.57 L                   | 0.57 L                   |
| Max. Reciprocating Speed | 276 cpm                  | 276 cpm                  |

Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF



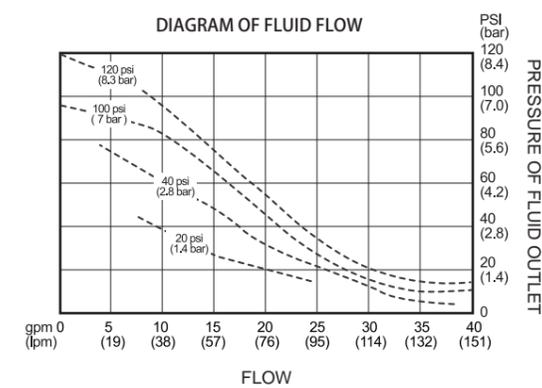
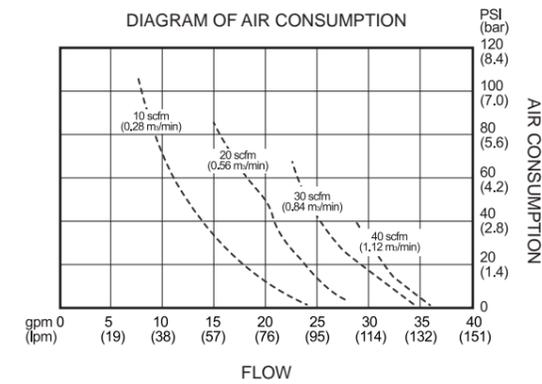
Aluminum alloy



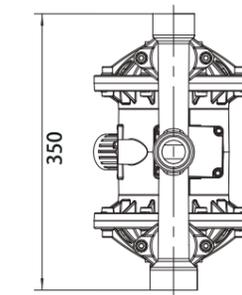
## Parts List

| No. | Name                       | No. | Name                       | No. | Name                     | No. | Name                       |
|-----|----------------------------|-----|----------------------------|-----|--------------------------|-----|----------------------------|
| 01  | Plug Sealing Ring          | 02  | Plug                       | 03  | Large Slider             | 04  | Small Slider               |
| 05  | Booster Power Lever Sleeve | 06  | Piston Sleeve              | 07  | Booster Power Lever      | 08  | Booster Power Lever O-ring |
| 09  | Piston V-ring              | 10  | Piston                     | 11  | Large Slider O-ring      | 12  | Large Slider Seat          |
| 13  | Boot Block                 | 14  | Boot Block Washer          | 15  | Outlet Manifold          | 16  | Ball Valve                 |
| 17  | Ball Seat                  | 18  | Ball Seat Sealing Ring     | 19  | Air Valve Cover          | 20  | Air Valve Cover Washer     |
| 21  | Stand Column               | 22  | Splint Screw               | 23  | Splint O-ring            | 24  | Outer Splint               |
| 25  | Teflon Diaphragm           | 26  | Santoprene Diaphragm       | 27  | Inner Splint             | 28  | Clap Board                 |
| 29  | Muffler                    | 30  | Inlet Manifold             | 31  | Air Valve Chamber        | 32  | Connecting Rod Axis        |
| 33  | V-ring                     | 34  | Connecting Rod Axis Sleeve | 35  | Air Valve Chamber Washer |     |                            |

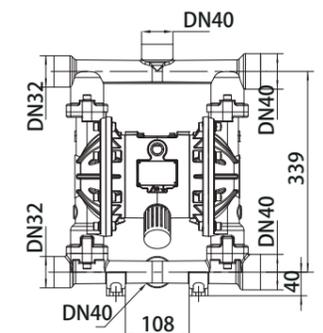
## Installation dimensions



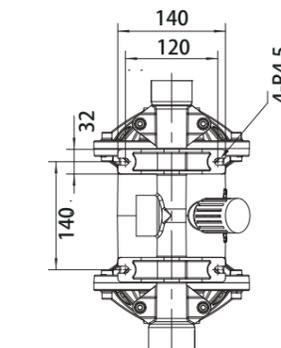
Vertical View



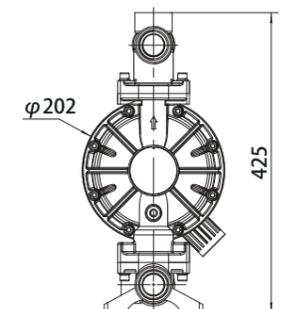
Front View

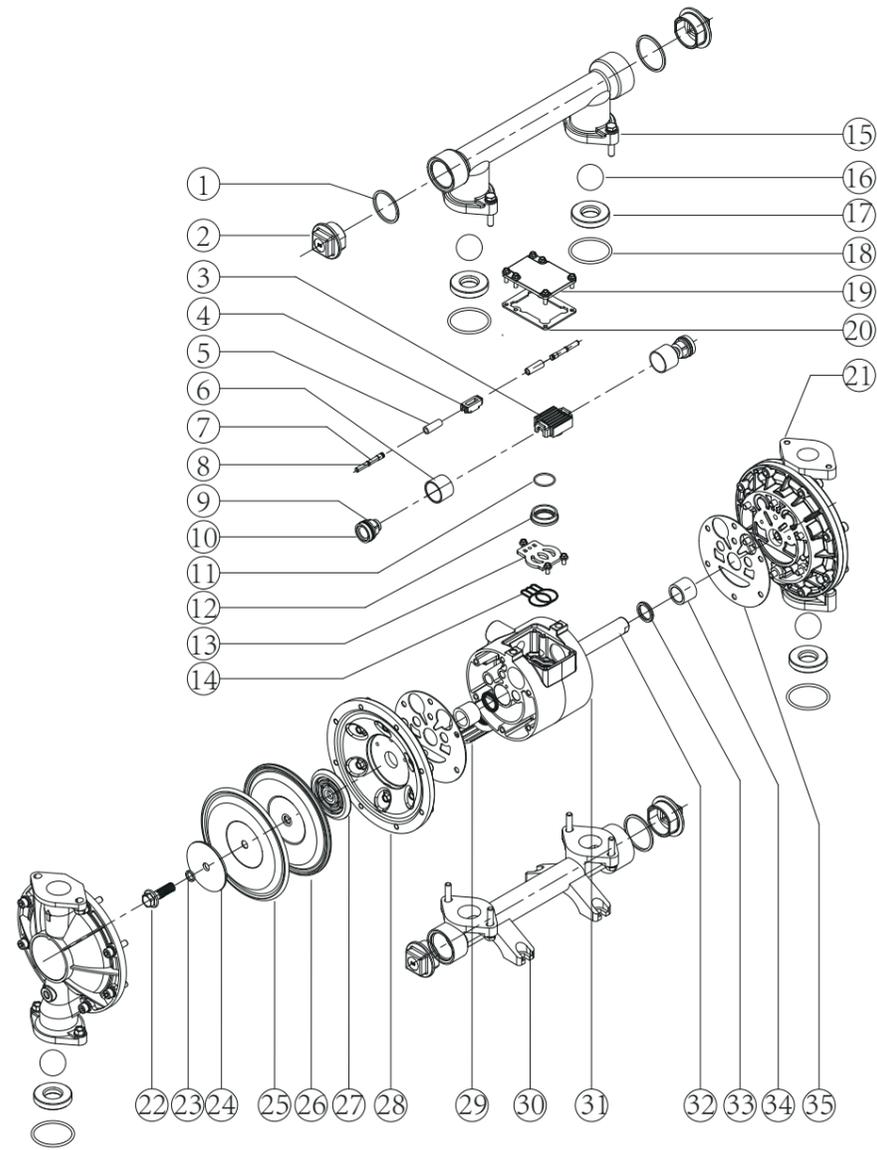


Upward View



Left Side View





### Parts List

| No. | Name                       | No. | Name                       | No. | Name                     | No. | Name                       |
|-----|----------------------------|-----|----------------------------|-----|--------------------------|-----|----------------------------|
| 01  | Plug Sealing Ring          | 02  | Plug                       | 03  | Large Slider             | 04  | Small Slider               |
| 05  | Booster Power Lever Sleeve | 06  | Piston Sleeve              | 07  | Booster Power Lever      | 08  | Booster Power Lever O-ring |
| 09  | Piston V-ring              | 10  | Piston                     | 11  | Large Slider O-ring      | 12  | Large Slider Seat          |
| 13  | Boot Block                 | 14  | Boot Block Washer          | 15  | Outlet Manifold          | 16  | Ball Valve                 |
| 17  | Ball Seat                  | 18  | Ball Seat Sealing Ring     | 19  | Air Valve Cover          | 20  | Air Valve Cover Washer     |
| 21  | Stand Column               | 22  | Splint Screw               | 23  | Splint O-ring            | 24  | Outer Splint               |
| 25  | Teflon Diaphragm           | 26  | Santoprene Diaphragm       | 27  | Inner Splint             | 28  | Clap Board                 |
| 29  | Muffler                    | 30  | Inlet Manifold             | 31  | Air Valve Chamber        | 32  | Connecting Rod Axis        |
| 33  | V-ring                     | 34  | Connecting Rod Axis Sleeve | 35  | Air Valve Chamber Washer |     |                            |

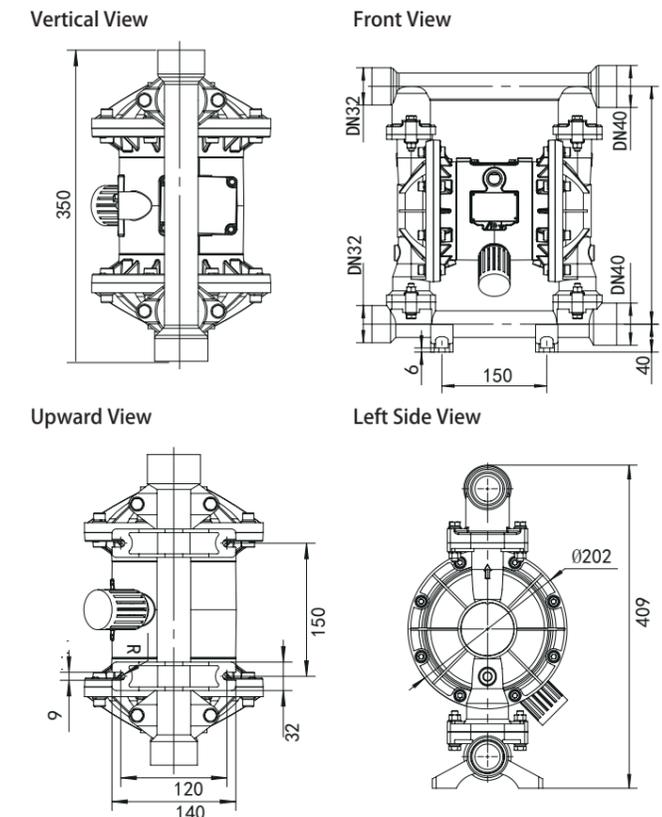
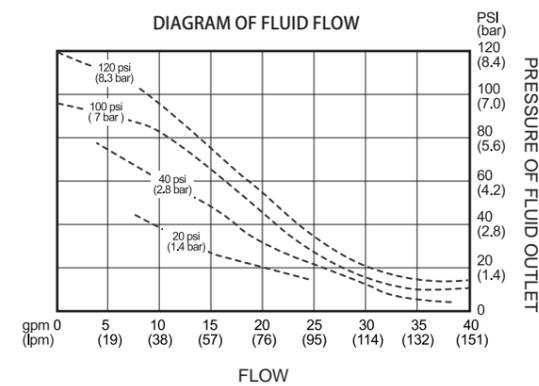
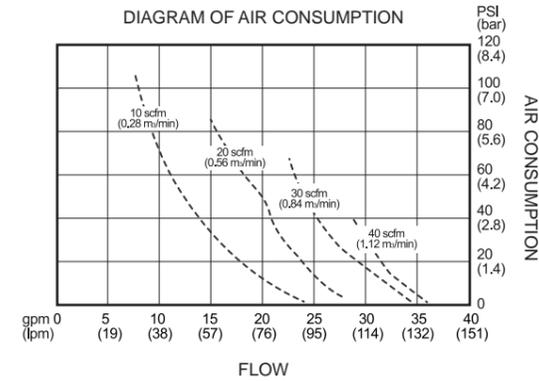


## QBY3-32 QBY3-40 Stainless steel / Nodular cast iron

### Specifications

|  | QBY3-32                  | QBY3-40                  |
|--|--------------------------|--------------------------|
| Max. Flow Rate   | 151 lpm                  | 151 lpm                  |
| Max. Head  | 84 m                     | 84 m                     |
| Max. Suction Height  | 5.48 m                   | 5.48 m                   |
| Max. Working Pressure  | 8.4 bar                  | 8.4 bar                  |
| Fluid Inlet/Outlet Size  | DN32 (1-1/4" )           | DN40 (1-1/2" )           |
| Air Inlet Size   | 1/2" G (bspp)            | 1/2" G (bspp)            |
| Max. Permitted Grain   | 3.2 mm                   | 3.2 mm                   |
| Max. Air Consumption   | 0.67 m <sup>3</sup> /min | 0.67 m <sup>3</sup> /min |
| Air Compressor Power   | 5.5 kw                   | 5.5 kw                   |
| Every Reciprocating Flow   | 0.57 L                   | 0.57 L                   |
| Max. Reciprocating Speed   | 276 cpm                  | 276 cpm                  |
| Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF |                          |                          |

### Installation dimensions



Note: GODO Manufacturing Co., Ltd reserves the right to change product design without prior notice. Please consult sales for latest product size.

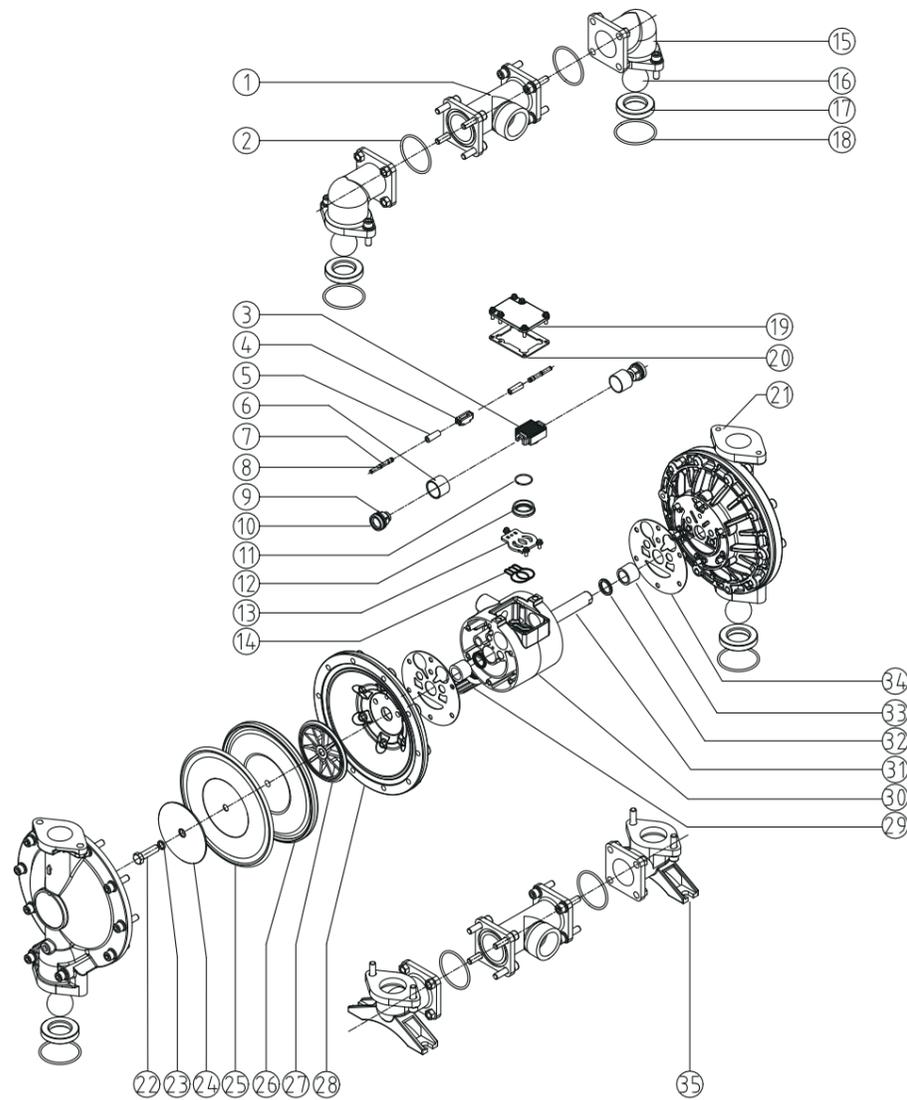


# BFQ-40

Aluminium alloy / Stainless steel  
Nodular cast iron / Engineering plastics  
Fluorine plastic

## Specifications

|                                | BFQ-40  |
|--------------------------------|---|
| Max. Flow Rate                 | 378.5 lpm   |
| Max. Head                      | 84 m  |
| Max. Suction Height            | 5.48 m  |
| Max. Working Pressure          | 8.4 bar   |
| Fluid Inlet/Outlet Size        | DN40 (1-1/2" )  |
| Air Inlet Size                 | 1/2" G (bspp)   |
| Max. Permitted Grain           | 4.8 mm  |
| Max. Air Consumption           | 0.9 m <sup>3</sup> /min   |
| Air Compressor Power           | 7.5 kw  |
| Every Reciprocating Flow       | 1.9 L   |
| Max. Reciprocating Speed       | 276 cpm   |
| Pump body structure materials: | Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF |

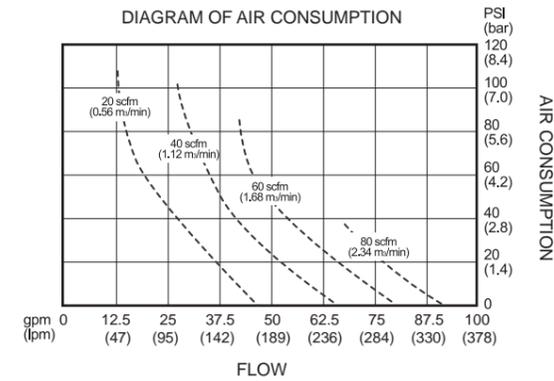


Stainless steel

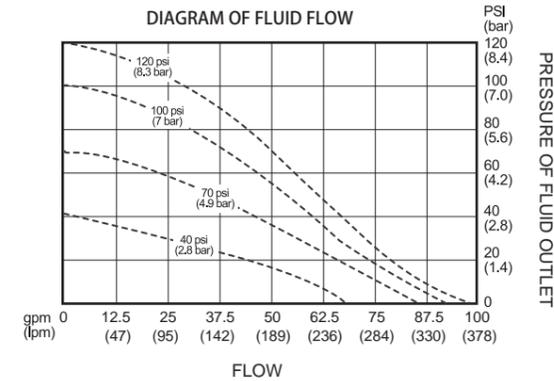
## Parts List

| No. | Name                       | No. | Name                     | No. | Name                    | No. | Name                       |
|-----|----------------------------|-----|--------------------------|-----|-------------------------|-----|----------------------------|
| 01  | Tee                        | 02  | Tee Sealing Ring         | 03  | Large Slider            | 04  | Small Slider               |
| 05  | Booster Power Lever Sleeve | 06  | Piston Sleeve            | 07  | Booster Power Lever     | 08  | Booster Power Lever O-ring |
| 09  | Piston V-ring              | 10  | Piston                   | 11  | Large Slider O-ring     | 12  | Large Slider Seat          |
| 13  | Boot Block                 | 14  | Boot Block Washer        | 15  | Upper Elbow             | 16  | Ball Valve                 |
| 17  | Ball Seat                  | 18  | Ball Seat Sealing Ring   | 19  | Air Valve Chamber Cover | 20  | Air Valve Cover Washer     |
| 21  | Stand Column               | 22  | Splint Screw             | 23  | Splint O-ring           | 24  | Outer Splint               |
| 25  | Teflon Diaphragm           | 26  | Santoprene Diaphragm     | 27  | Inner Splint            | 28  | Clap Board                 |
| 29  | Muffler                    | 30  | Air Valve Chamber        | 31  | Connecting Rod Axis     | 32  | V-ring                     |
| 33  | Connecting Rod Axis Sleeve | 34  | Air Valve Chamber Washer | 35  | Lower Elbow             |     |                            |

### DIAGRAM OF AIR CONSUMPTION

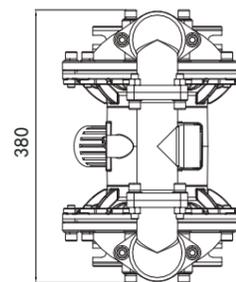


### DIAGRAM OF FLUID FLOW

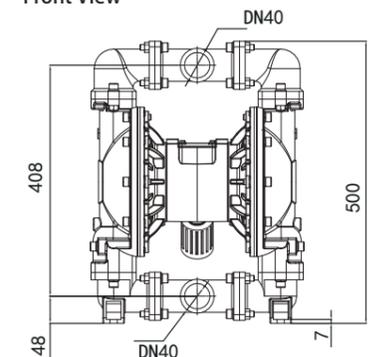


## Installation dimensions

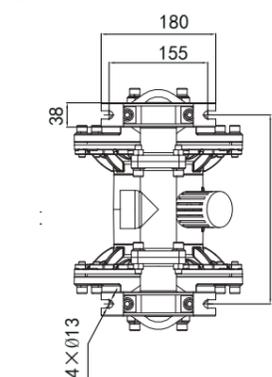
### Vertical View



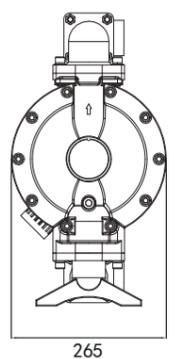
### Front View

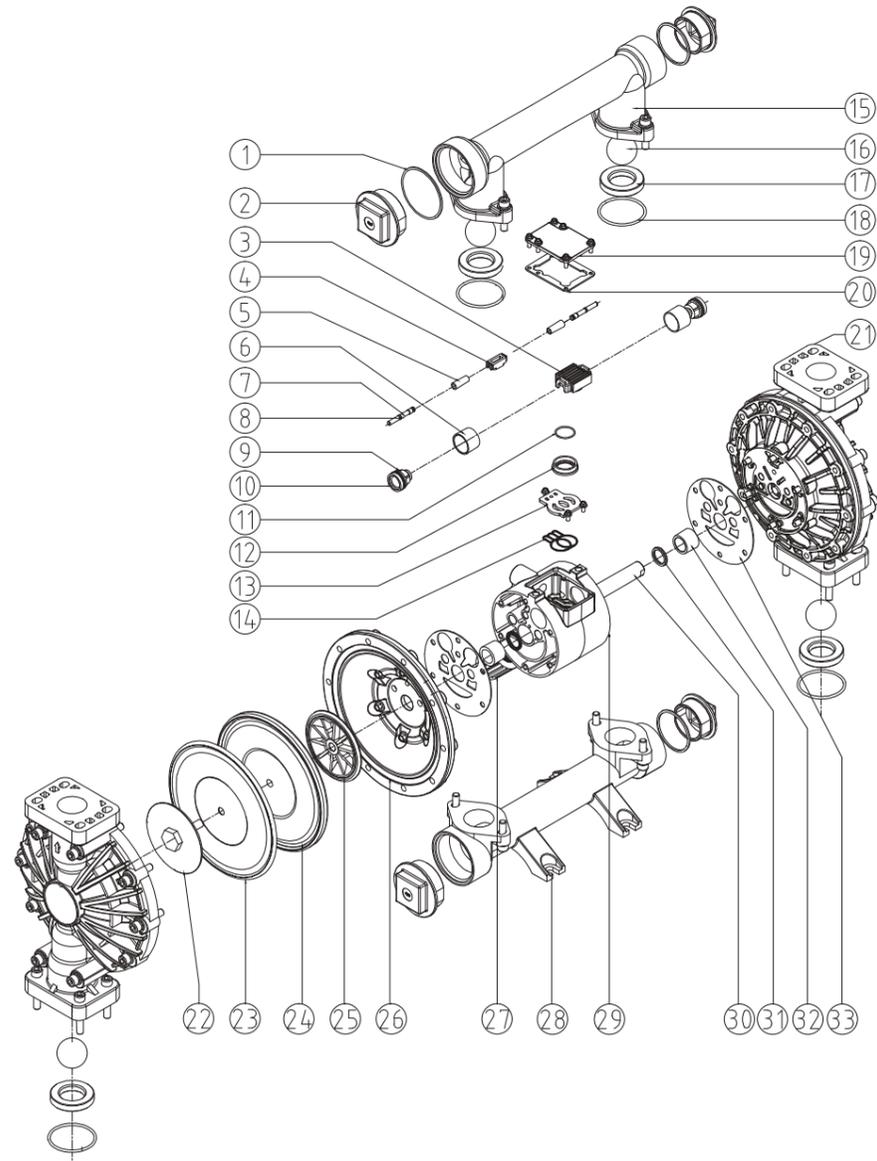


### Upward View



### Left Side View





### Parts List

| No. | Name                       | No. | Name                   | No. | Name                    | No. | Name                       |
|-----|----------------------------|-----|------------------------|-----|-------------------------|-----|----------------------------|
| 01  | Plug Sealing Ring          | 02  | Plug                   | 03  | Large Slider            | 04  | Small Slider               |
| 05  | Booster Power Lever Sleeve | 06  | Piston Sleeve          | 07  | Booster Power Lever     | 08  | Booster Power Lever O-ring |
| 09  | Piston V-ring              | 10  | Piston                 | 11  | Large Slider O-ring     | 12  | Large Slider Seat          |
| 13  | Boot Block                 | 14  | Boot Block Washer      | 15  | Outlet Manifold         | 16  | Ball Valve                 |
| 17  | Ball Seat                  | 18  | Ball Seat Sealing Ring | 19  | Air Valve Chamber Cover | 20  | Air Valve Cover Washer     |
| 21  | Stand Column               | 22  | Outer Splint           | 23  | Teflon Diaphragm        | 24  | Santoprene Diaphragm       |
| 25  | Inner Splint               | 26  | Clap Board             | 27  | Muffler                 | 28  | Inlet Manifold             |
| 29  | Air Valve Chamber          | 30  | Connecting Rod Axis    | 31  | V-ring                  | 32  | Connecting Rod Axis Sleeve |
| 33  | Air Valve Chamber Washer   |     |                        |     |                         |     |                            |



Engineering plastics

Fluorine plastic

## QBY3-50 QBY3-65

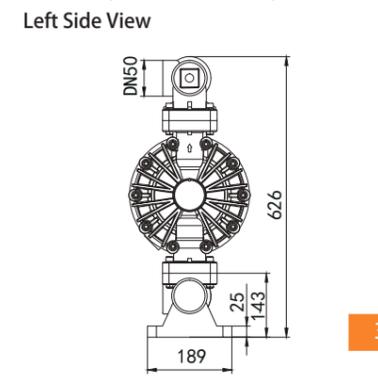
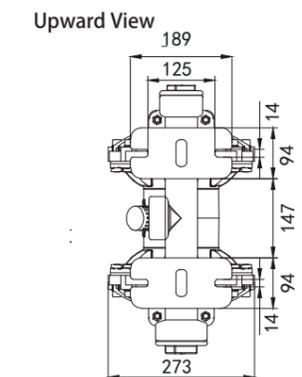
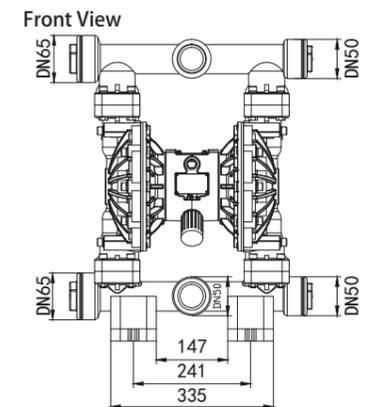
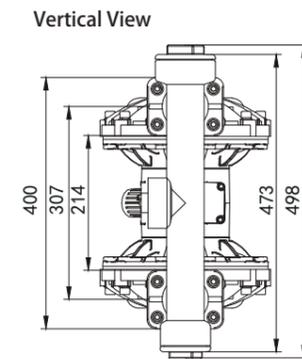
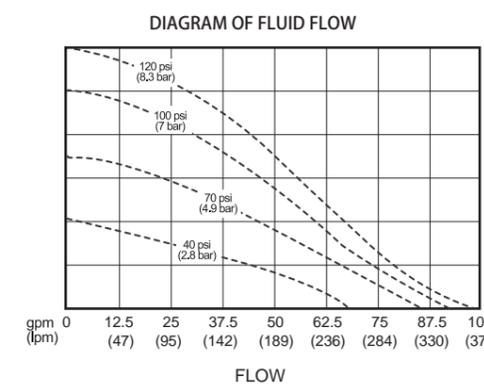
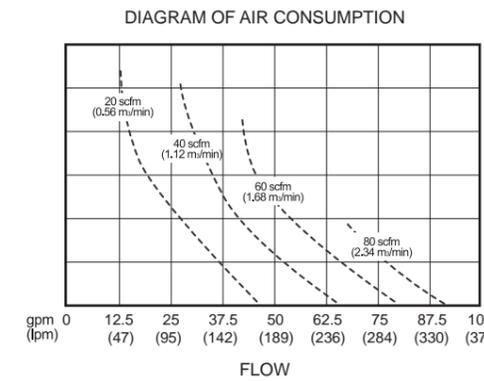
Engineering plastics / Fluorine plastic

### Specifications

|                          | QBY3-50                 | QBY3-65                 |
|--------------------------|-------------------------|-------------------------|
| Max. Flow Rate           | 378.5 lpm               | 378.5 lpm               |
| Max. Head                | 84 m                    | 84 m                    |
| Max. Suction Height      | 5.48 m                  | 5.48 m                  |
| Max. Working Pressure    | 8.4 bar                 | 8.4 bar                 |
| Fluid Inlet/Outlet Size  | DN50 (2" )              | DN65 (2-1/2" )          |
| Air Inlet Size           | 1/2" G (bspp)           | 1/2" G (bspp)           |
| Max. Permitted Grain     | 4.8 mm                  | 4.8 mm                  |
| Max. Air Consumption     | 0.9 m <sup>3</sup> /min | 0.9 m <sup>3</sup> /min |
| Air Compressor Power     | 7.5 kw                  | 7.5 kw                  |
| Every Reciprocating Flow | 1.9 L                   | 1.9 L                   |
| Max. Reciprocating Speed | 276 cpm                 | 276 cpm                 |

Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF

### Installation dimensions





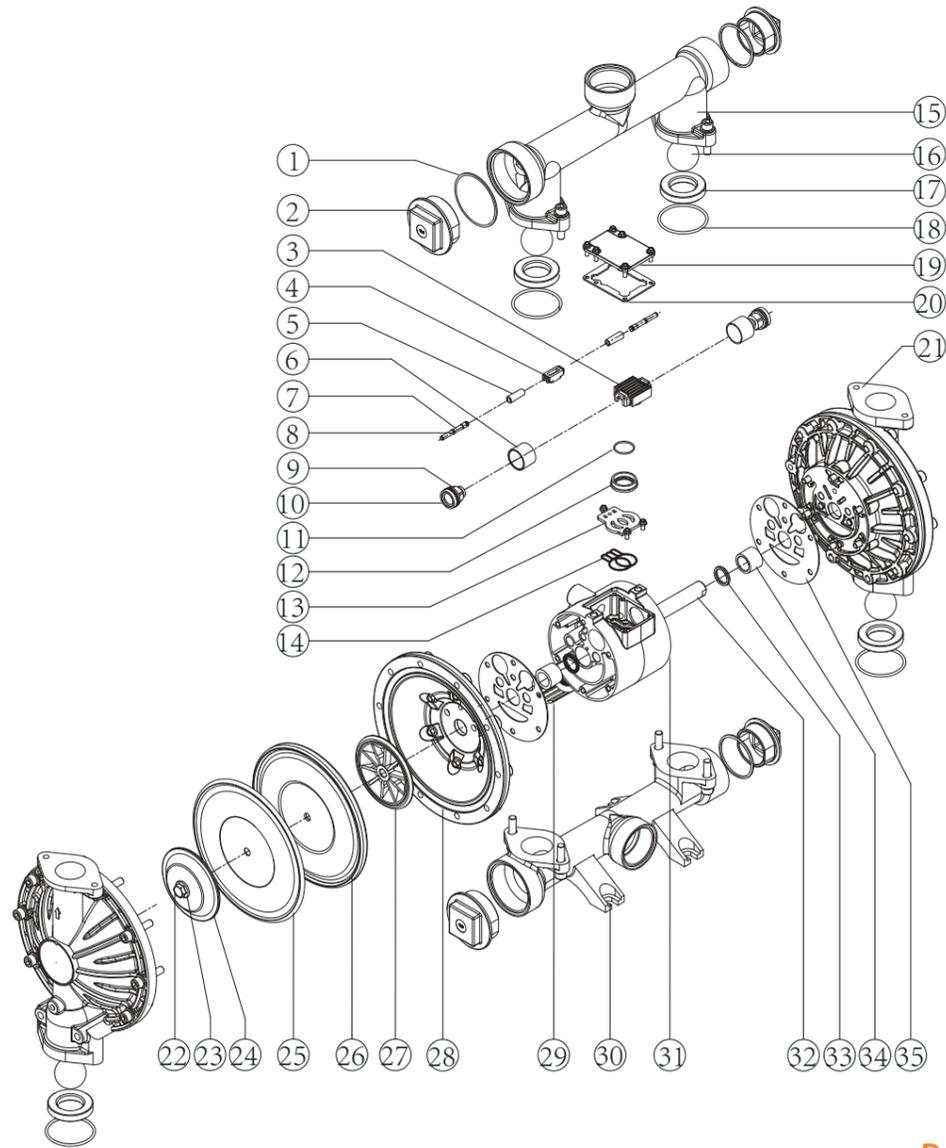
# QBY3-50 QBY3-65 Aluminum alloy

## Specifications

|  | QBY3-50                 | QBY3-65                 |
|--|-------------------------|-------------------------|
| Max. Flow Rate   | 378.5 lpm               | 378.5 lpm               |
| Max. Head  | 84 m                    | 84 m                    |
| Max. Suction Height  | 5.48 m                  | 5.48 m                  |
| Max. Working Pressure  | 8.4 bar                 | 8.4 bar                 |
| Fluid Inlet/Outlet Size  | DN50 (2" )              | DN65 (2-1/2" )          |
| Air Inlet Size   | 1/2" G (bspp)           | 1/2" G (bspp)           |
| Max. Permitted Grain   | 4.8 mm                  | 4.8 mm                  |
| Max. Air Consumption   | 0.9 m <sup>3</sup> /min | 0.9 m <sup>3</sup> /min |
| Air Compressor Power   | 7.5 kw                  | 7.5 kw                  |
| Every Reciprocating Flow   | 1.9 L                   | 1.9 L                   |
| Max. Reciprocating Speed   | 276 cpm                 | 276 cpm                 |
| Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF |                         |                         |



Aluminum alloy



## Parts List

| No. | Name                       | No. | Name                       | No. | Name                     | No. | Name                       |
|-----|----------------------------|-----|----------------------------|-----|--------------------------|-----|----------------------------|
| 01  | Plug Sealing Ring          | 02  | Plug                       | 03  | Large Slider             | 04  | Small Slider               |
| 05  | Booster Power Lever Sleeve | 06  | Piston Sleeve              | 07  | Booster Power Lever      | 08  | Booster Power Lever O-ring |
| 09  | Piston V-ring              | 10  | Piston                     | 11  | Large Slider O-ring      | 12  | Large Slider Seat          |
| 13  | Boot Block                 | 14  | Boot Block Washer          | 15  | Outlet Manifold          | 16  | Ball Valve                 |
| 17  | Ball Seat                  | 18  | Ball Seat Sealing Ring     | 19  | Air Valve Cover          | 20  | Air Valve Cover Washer     |
| 21  | Stand Column               | 22  | Splint Screw               | 23  | Splint O-ring            | 24  | Outer Splint               |
| 25  | Teflon Diaphragm           | 26  | Santoprene Diaphragm       | 27  | Inner Splint             | 28  | Clap Board                 |
| 29  | Muffler                    | 30  | Inlet Manifold             | 31  | Air Valve Chamber        | 32  | Connecting Rod Axis        |
| 33  | V-ring                     | 34  | Connecting Rod Axis Sleeve | 35  | Air Valve Chamber Washer |     |                            |

## Installation dimensions

DIAGRAM OF AIR CONSUMPTION

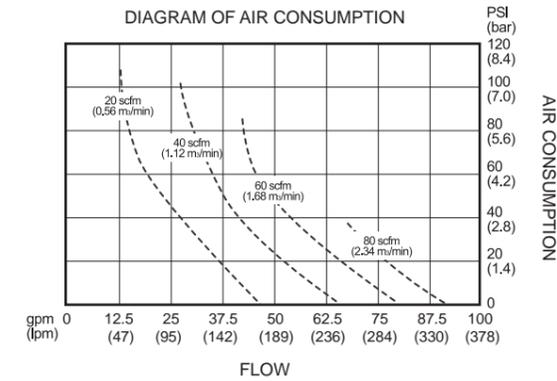
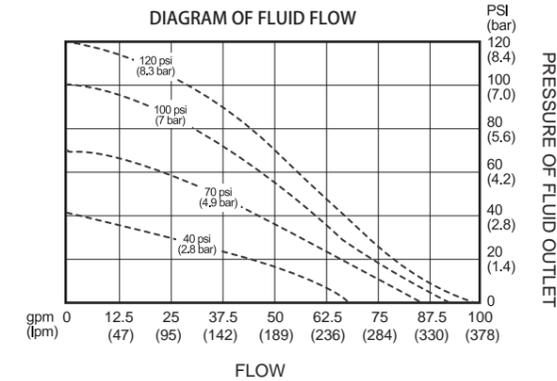
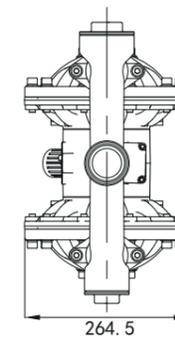


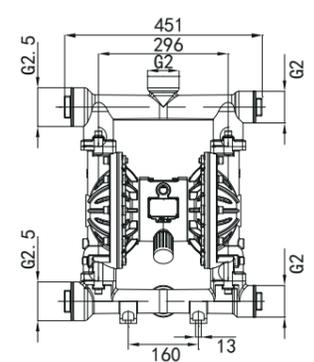
DIAGRAM OF FLUID FLOW



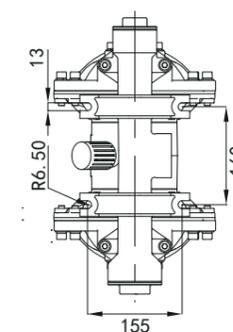
Vertical View



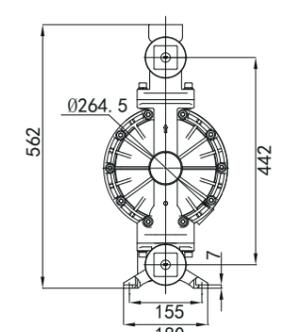
Front View

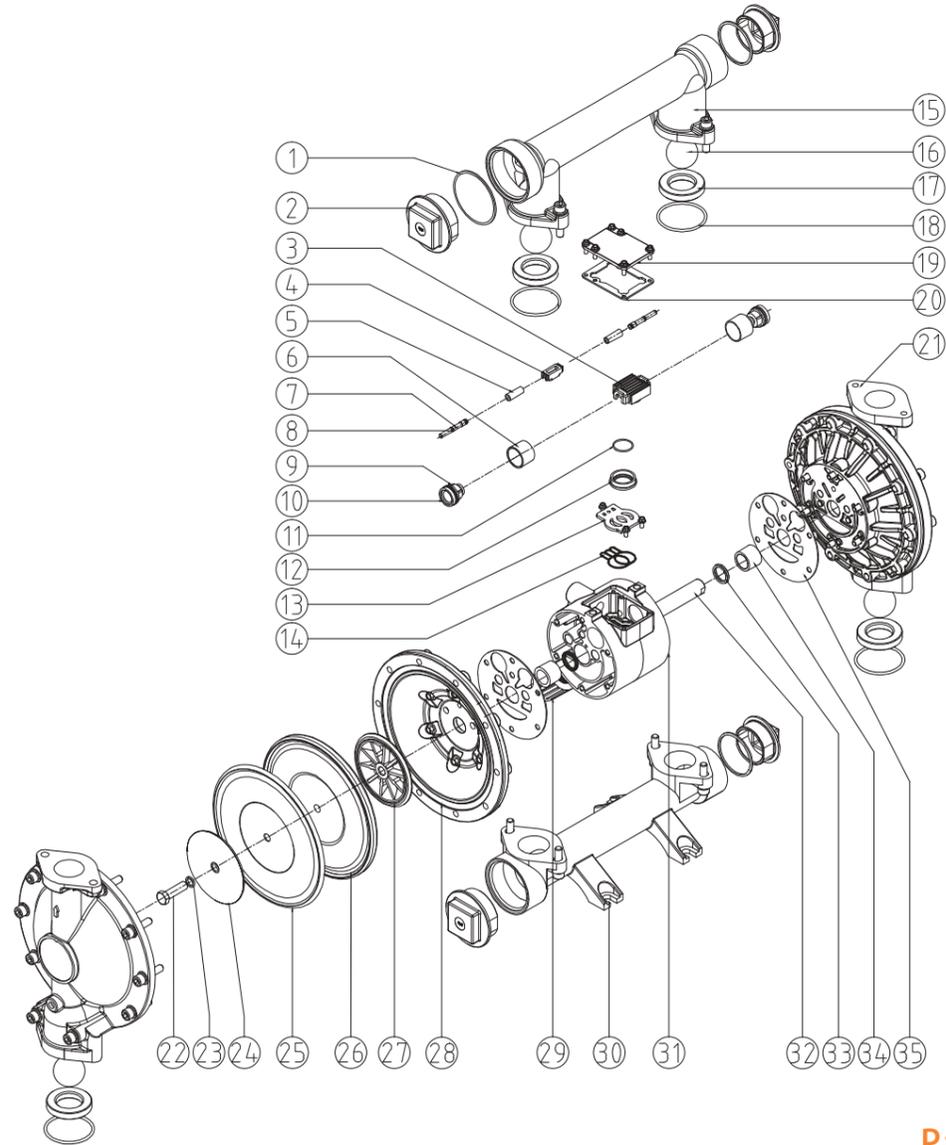


Upward View



Left Side View





### Parts List

| No. | Name                       | No. | Name                       | No. | Name                     | No. | Name                       |
|-----|----------------------------|-----|----------------------------|-----|--------------------------|-----|----------------------------|
| 01  | Plug Sealing Ring          | 02  | Plug                       | 03  | Large Slider             | 04  | Small Slider               |
| 05  | Booster Power Lever Sleeve | 06  | Piston Sleeve              | 07  | Booster Power Lever      | 08  | Booster Power Lever O-ring |
| 09  | Piston V-ring              | 10  | Piston                     | 11  | Large Slider O-ring      | 12  | Large Slider Seat          |
| 13  | Boot Block                 | 14  | Boot Block Washer          | 15  | Outlet Manifold          | 16  | Ball Valve                 |
| 17  | Ball Seat                  | 18  | Ball Seat Sealing Ring     | 19  | Air Valve Cover          | 20  | Air Valve Cover Washer     |
| 21  | Stand Column               | 22  | Splint Screw               | 23  | Splint O-ring            | 24  | Outer Splint               |
| 25  | Teflon Diaphragm           | 26  | Santoprene Diaphragm       | 27  | Inner Splint             | 28  | Clap Board                 |
| 29  | Muffler                    | 30  | Inlet Manifold             | 31  | Air Valve Chamber        | 32  | Connecting Rod Axis        |
| 33  | V-ring                     | 34  | Connecting Rod Axis Sleeve | 35  | Air Valve Chamber Washer |     |                            |



Stainless steel



Nodular cast iron

## QBY3-50 QBY3-65

Stainless steel / Nodular cast iron

### Specifications

|                          | QBY3-50                 | QBY3-65                 |
|--------------------------|-------------------------|-------------------------|
| Max. Flow Rate           | 378.5 lpm               | 378.5 lpm               |
| Max. Head                | 84 m                    | 84 m                    |
| Max. Suction Height      | 5.48 m                  | 5.48 m                  |
| Max. Working Pressure    | 8.4 bar                 | 8.4 bar                 |
| Fluid Inlet/Outlet Size  | DN50 (2" )              | DN65 (2-1/2" )          |
| Air Inlet Size           | 1/2" G (bspp)           | 1/2" G (bspp)           |
| Max. Permitted Grain     | 4.8 mm                  | 4.8 mm                  |
| Max. Air Consumption     | 0.9 m <sup>3</sup> /min | 0.9 m <sup>3</sup> /min |
| Air Compressor Power     | 7.5 kw                  | 7.5 kw                  |
| Every Reciprocating Flow | 1.9 L                   | 1.9 L                   |
| Max. Reciprocating Speed | 276 cpm                 | 276 cpm                 |

Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF

### Installation dimensions

DIAGRAM OF AIR CONSUMPTION

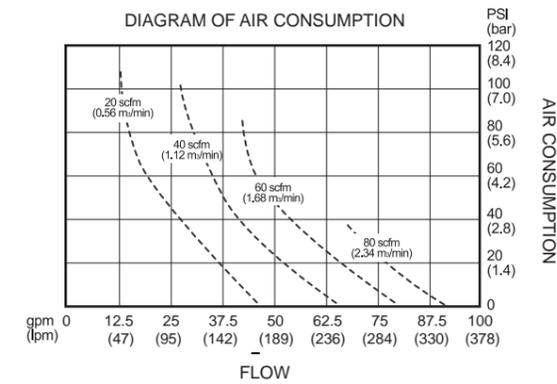
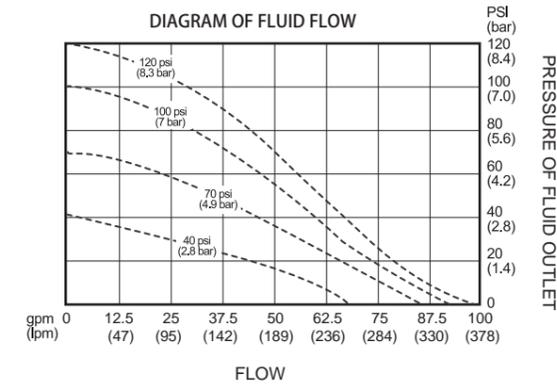
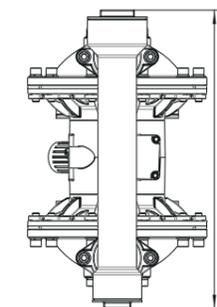


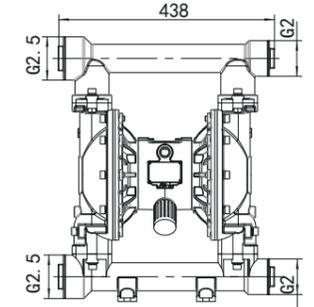
DIAGRAM OF FLUID FLOW



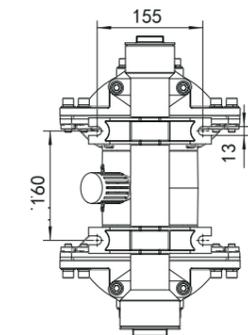
Vertical View



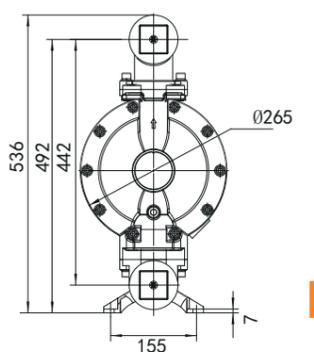
Front View



Upward View



Left Side View



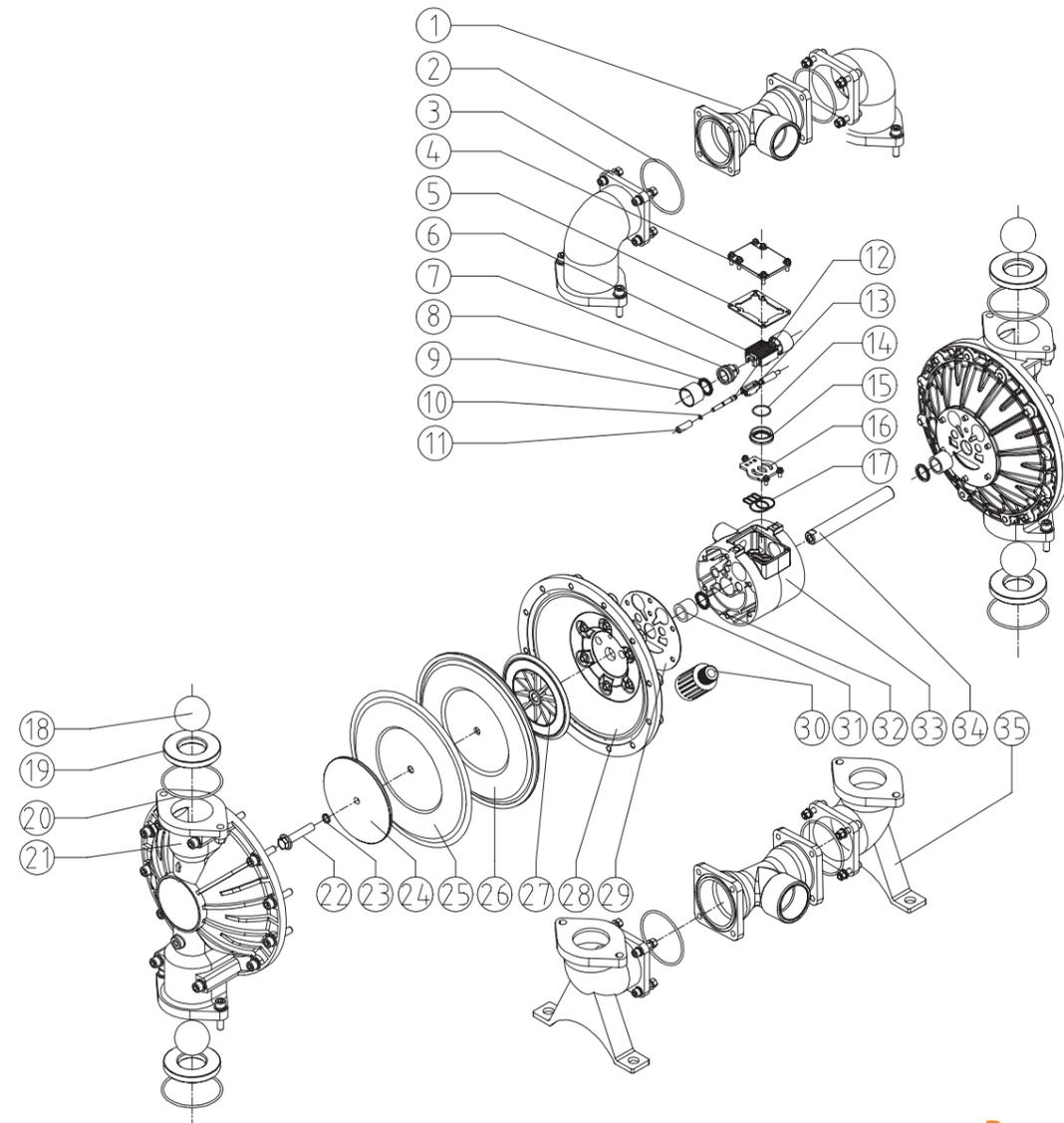


# BFQ-50

Aluminum alloy / Stainless steel  
Nodular cast iron / Engineering plastics  
Fluorine plastic

## Specifications

|                                | BFQ-50  |
|--------------------------------|---|
| Max. Flow Rate                 | 568 lpm   |
| Max. Head                      | 84 m  |
| Max. Suction Height            | 5.48 m  |
| Max. Working Pressure          | 8.4 bar   |
| Fluid Inlet/Outlet Size        | DN50 (2" )  |
| Air Inlet Size                 | 1/2" G (bspp)   |
| Max. Permitted Grain           | 6.4 mm  |
| Max. Air Consumption           | 1.5~2.0 m <sup>3</sup> /min   |
| Air Compressor Power           | 11~15 kw  |
| Every Reciprocating Flow       | 3.9 L   |
| Max. Reciprocating Speed       | 145 cpm   |
| Pump body structure materials: | Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF |

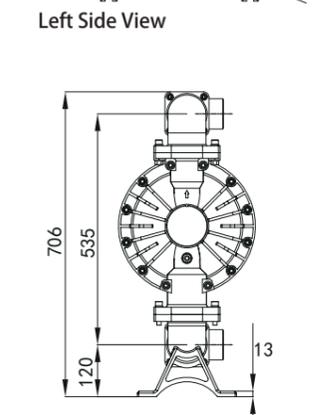
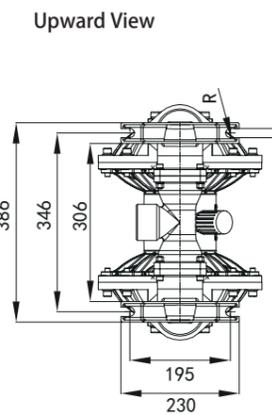
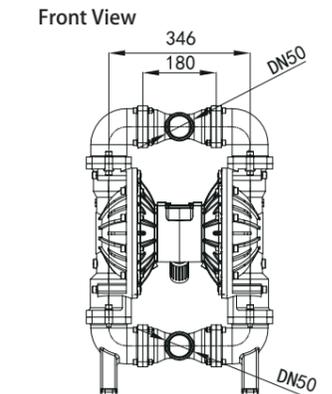
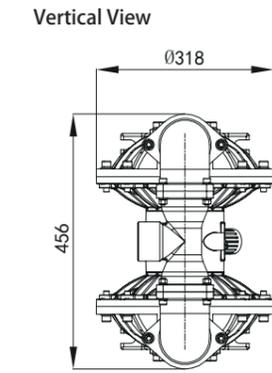
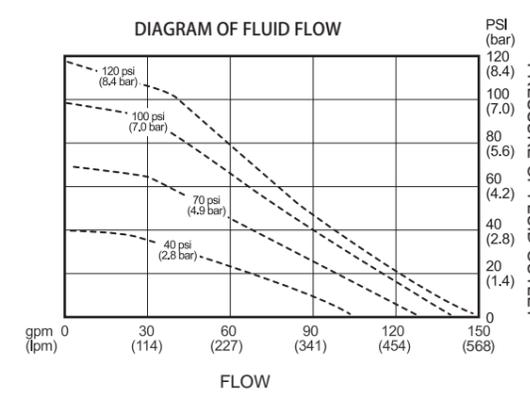
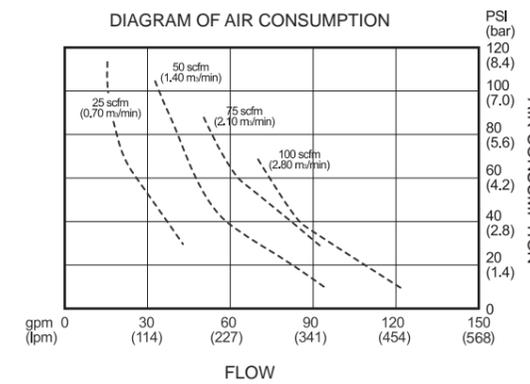


Stainless steel

## Parts List

| No. | Name                     | No. | Name                       | No. | Name                              | No. | Name                    |
|-----|--------------------------|-----|----------------------------|-----|-----------------------------------|-----|-------------------------|
| 01  | Tee Pipe                 | 02  | Tee Pipe Sealing Ring      | 03  | Upper Elbow                       | 04  | Air Valve Chamber Cover |
| 05  | Air Valve Cover Washer   | 06  | Large Slider               | 07  | Piston                            | 08  | Piston Sealing Ring     |
| 09  | Piston Sleeve            | 10  | Booster Power Lever O-ring | 11  | Booster Power Lever Sleeve        | 12  | Booster Power Lever     |
| 13  | Small Slider             | 14  | Large Slider Sealing Ring  | 15  | Large Slider Seat                 | 16  | Boot Block              |
| 17  | Boot Block Washer        | 18  | Ball Valve                 | 19  | Ball Seat                         | 20  | Ball Seat Sealing Ring  |
| 21  | Stand Column             | 22  | Outer Splint Bolt          | 23  | Outer Pressure Plate Sealing Ring | 24  | Outer Pressure Plate    |
| 25  | Teflon Diaphragm         | 26  | Santoprene Diaphragm       | 27  | Inner Pressure Plate              | 28  | Clap Board              |
| 29  | Air Valve Chamber Washer | 30  | Muffler                    | 31  | Connecting Rod Axis Sleeve        | 32  | V-ring                  |
| 33  | Air Valve Chamber        | 34  | Connecting Rod Axis        | 35  | Lower Elbow                       |     |                         |

## Installation dimensions



Note: GODO Manufacturing Co.,Ltd reserves the right to change product design without prior notice. Please consult sales for latest product size.



# QBY3-80 QBY3-100

## Engineering plastics / Fluorine plastic

### Specifications

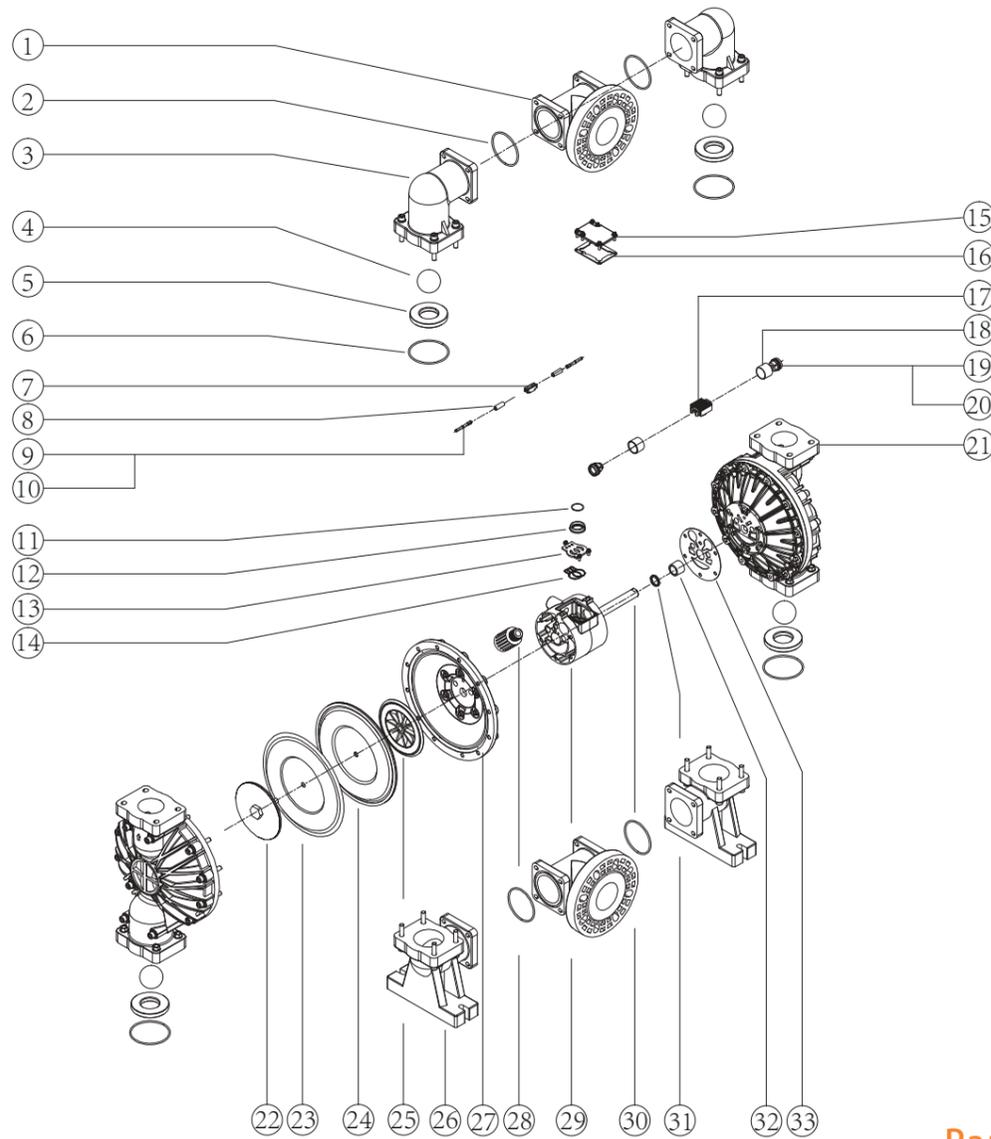
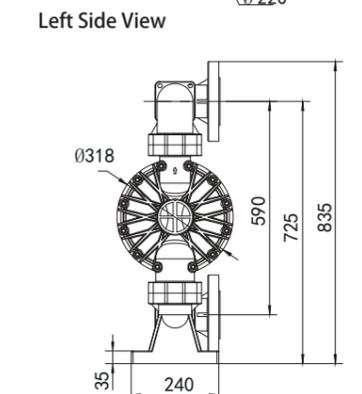
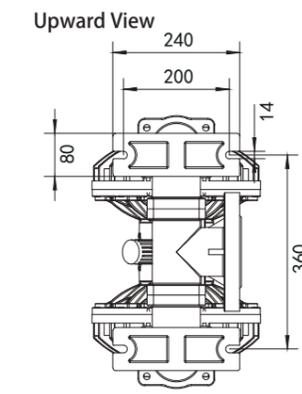
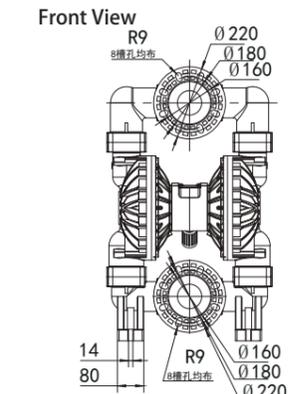
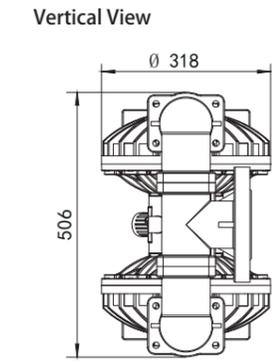
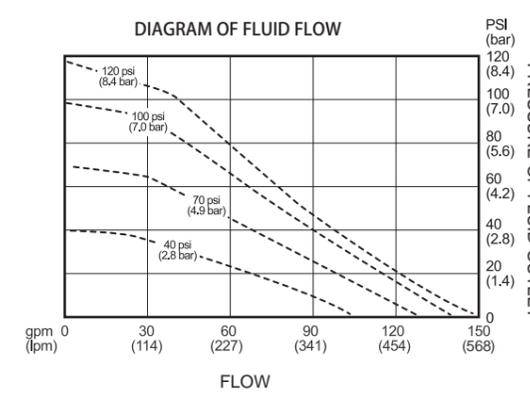
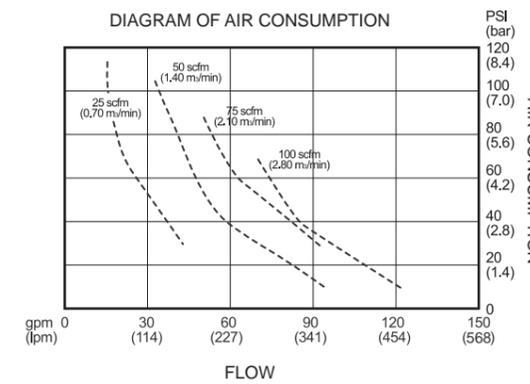
|                          | QBY3-80                     | QBY3-100                    |
|--------------------------|-----------------------------|-----------------------------|
| Max. Flow Rate           | 568 lpm                     | 568 lpm                     |
| Max. Head                | 84 m                        | 84 m                        |
| Max. Suction Height      | 5.48 m                      | 5.48 m                      |
| Max. Working Pressure    | 8.4 bar                     | 8.4 bar                     |
| Fluid Inlet/Outlet Size  | DN80 (3" )                  | DN100 (4" )                 |
| Air Inlet Size           | 1/2" G (bspp)               | 1/2" G (bspp)               |
| Max. Permitted Grain     | 6.4 mm                      | 6.4 mm                      |
| Max. Air Consumption     | 1.5~2.0 m <sup>3</sup> /min | 1.5~2.0 m <sup>3</sup> /min |
| Air Compressor Power     | 11~15 kw                    | 11~15 kw                    |
| Every Reciprocating Flow | 3.9 L                       | 3.9 L                       |
| Max. Reciprocating Speed | 145 cpm                     | 145 cpm                     |

Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF



Fluorine plastic

### Installation dimensions



### Parts List

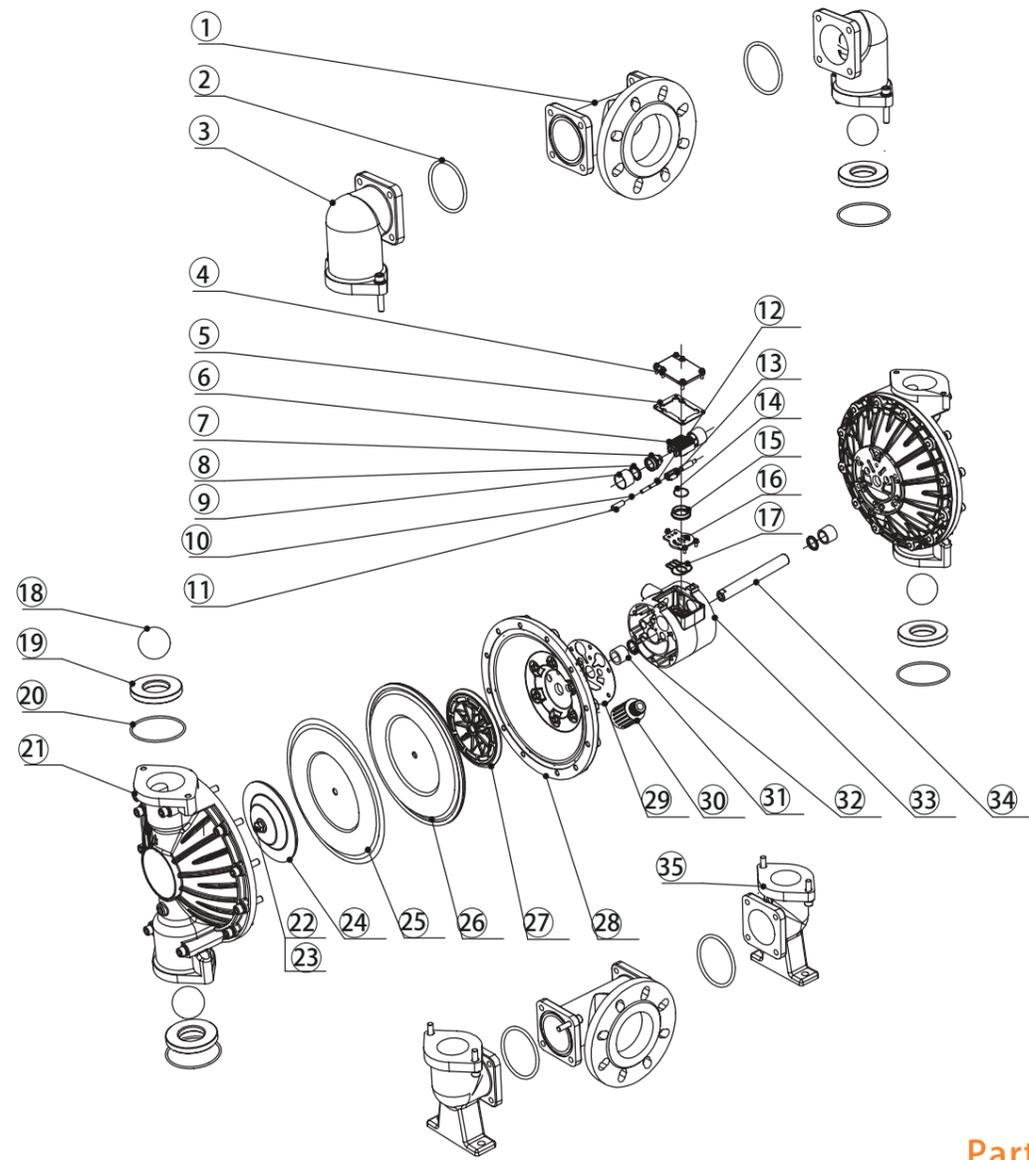
| No. | Name                     | No. | Name                       | No. | Name                    | No. | Name                       |
|-----|--------------------------|-----|----------------------------|-----|-------------------------|-----|----------------------------|
| 01  | Tee                      | 02  | Tee Sealing Ring           | 03  | Upper Elbow             | 04  | Ball Valve                 |
| 05  | Ball Seat                | 06  | Ball Seat Sealing Ring     | 07  | Small Slider            | 08  | Booster Power Lever Sleeve |
| 09  | Booster Power Lever      | 10  | Booster Power Lever O-ring | 11  | Large Slider            | 12  | Large Slider               |
| 13  | Boot Block               | 14  | Boot Block Washer          | 15  | Air Valve Chamber Cover | 16  | Air Valve Chamber Washer   |
| 17  | Large Slider Seat        | 18  | Piston Sleeve              | 19  | Piston                  | 20  | V-ring                     |
| 21  | Stand Column             | 22  | Outer Splint               | 23  | Teflon Diaphragm        | 24  | Santoprene Diaphragm       |
| 25  | Inner Splint             | 26  | Lower Elbow                | 27  | Clap Board              | 28  | Muffler                    |
| 29  | Air Valve Chamber        | 30  | Connecting Rod Axis        | 31  | V-ring                  | 32  | Connecting Rod Axis Sleeve |
| 33  | Air Valve Chamber Washer |     |                            |     |                         |     |                            |



# QBY3-80 QBY3-100 Aluminum alloy

## Specifications

|  | QBY3-80                     | QBY3-100                    |
|--|-----------------------------|-----------------------------|
| Max. Flow Rate   | 568 lpm                     | 568 lpm                     |
| Max. Head  | 84 m                        | 84 m                        |
| Max. Suction Height  | 5.48 m                      | 5.48 m                      |
| Max. Working Pressure  | 8.4 bar                     | 8.4 bar                     |
| Fluid Inlet/Outlet Size  | DN80 (3" )                  | DN100 (4" )                 |
| Air Inlet Size   | 1/2" G (bspp)               | 1/2" G (bspp)               |
| Max. Permitted Grain   | 6.4 mm                      | 6.4 mm                      |
| Max. Air Consumption   | 1.5~2.0 m <sup>3</sup> /min | 1.5~2.0 m <sup>3</sup> /min |
| Air Compressor Power   | 11~15 kw                    | 11~15 kw                    |
| Every Reciprocating Flow   | 3.9 L                       | 3.9 L                       |
| Max. Reciprocating Speed   | 145 cpm                     | 145 cpm                     |
| Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF |                             |                             |



## Parts List

| No. | Name                     | No. | Name                       | No. | Name                              | No. | Name                    |
|-----|--------------------------|-----|----------------------------|-----|-----------------------------------|-----|-------------------------|
| 01  | Tee Pipe                 | 02  | Tee Pipe Sealing Ring      | 03  | Upper Elbow                       | 04  | Air Valve Chamber Cover |
| 05  | Air Valve Cover Washer   | 06  | Large Slider               | 07  | Piston                            | 08  | Piston Sealing Ring     |
| 09  | Piston Sleeve            | 10  | Booster Power Lever O-ring | 11  | Booster Power Lever Sleeve        | 12  | Booster Power Lever     |
| 13  | Small Slider             | 14  | Large Slider Sealing Ring  | 15  | Large Slider Seat                 | 16  | Boot Block              |
| 17  | Boot Block Washer        | 18  | Ball Valve                 | 19  | Ball Seat                         | 20  | Ball Seat Sealing Ring  |
| 21  | Stand Column             | 22  | Outer Splint               | 23  | Outer Pressure Plate Sealing Ring | 24  | Outer Pressure Plate    |
| 25  | Teflon Diaphragm         | 26  | Santoprene Diaphragm       | 27  | Inner Pressure Plate              | 28  | Clap Board              |
| 29  | Air Valve Chamber Washer | 30  | Muffler                    | 31  | Connecting Rod Axis Sleeve        | 32  | V-ring                  |
| 33  | Air Valve Chambe         | 34  | Connecting Rod Axis        | 35  | Lower Elbow                       |     |                         |

DIAGRAM OF AIR CONSUMPTION

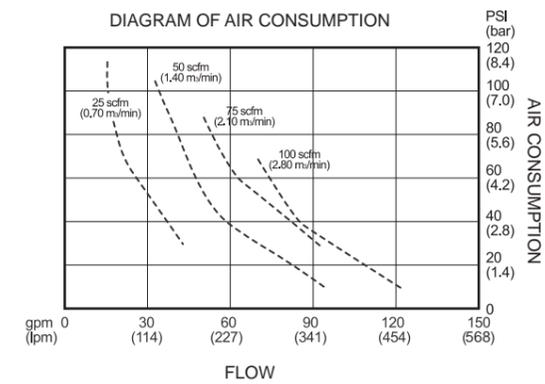
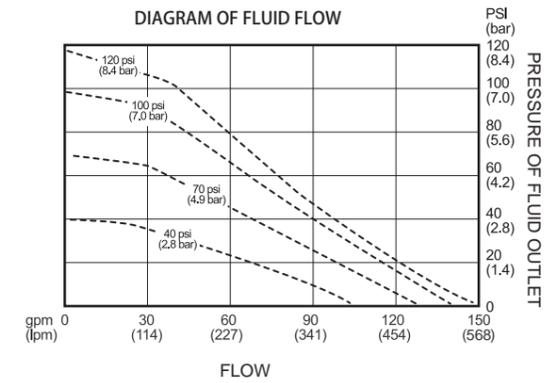
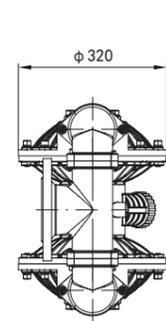


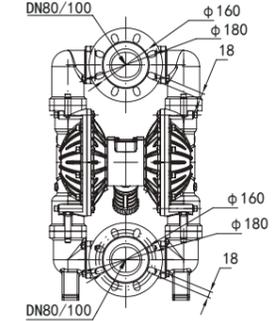
DIAGRAM OF FLUID FLOW



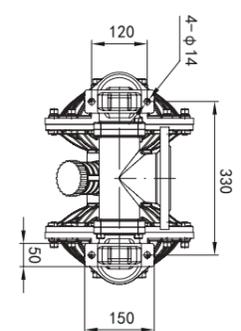
Vertical View



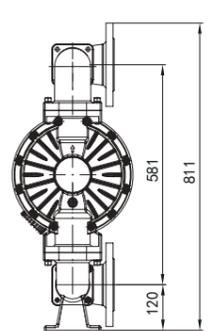
Front View



Upward View



Left Side View



Note: GODO Manufacturing Co.,Ltd reserves the right to change product design without prior notice. Please consult sales for latest product size.



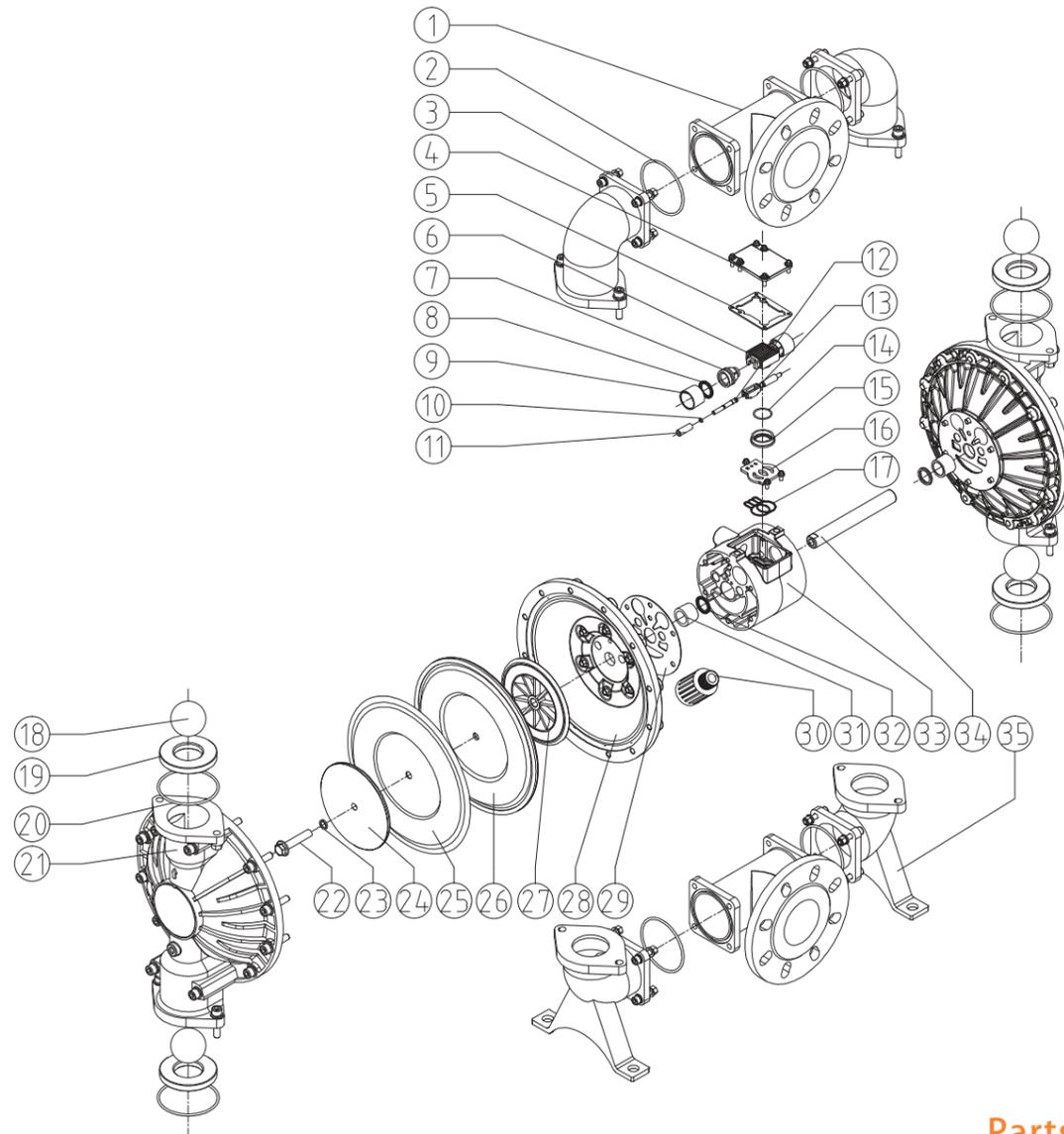
# QBY3-80 QBY3-100 Stainless steel / Nodular cast iron

## Specifications

|  | QBY3-80                     | QBY3-100                    |
|--|-----------------------------|-----------------------------|
| Max. Flow Rate   | 568 lpm                     | 568 lpm                     |
| Max. Head  | 84 m                        | 84 m                        |
| Max. Suction Height  | 5.48 m                      | 5.48 m                      |
| Max. Working Pressure  | 8.4 bar                     | 8.4 bar                     |
| Fluid Inlet/Outlet Size  | DN80 (3" )                  | DN100 (4" )                 |
| Air Inlet Size   | 1/2" G (bspp)               | 1/2" G (bspp)               |
| Max. Permitted Grain   | 6.4 mm                      | 6.4 mm                      |
| Max. Air Consumption   | 1.5~2.0 m <sup>3</sup> /min | 1.5~2.0 m <sup>3</sup> /min |
| Air Compressor Power   | 11~15 kw                    | 11~15 kw                    |
| Every Reciprocating Flow   | 3.9 L                       | 3.9 L                       |
| Max. Reciprocating Speed   | 145 cpm                     | 145 cpm                     |
| Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF |                             |                             |



Nodular cast iron



## Parts List

| No. | Name                     | No. | Name                       | No. | Name                              | No. | Name                    |
|-----|--------------------------|-----|----------------------------|-----|-----------------------------------|-----|-------------------------|
| 01  | Tee Pipe                 | 02  | Tee Pipe Sealing Ring      | 03  | Upper Elbow                       | 04  | Air Valve Chamber Cover |
| 05  | Air Valve Cover Washer   | 06  | Large Slider               | 07  | Piston                            | 08  | Piston Sealing Ring     |
| 09  | Piston Sleeve            | 10  | Booster Power Lever O-ring | 11  | Booster Power Lever Sleeve        | 12  | Booster Power Lever     |
| 13  | Small Slider             | 14  | Large Slider Sealing Ring  | 15  | Large Slider Seat                 | 16  | Boot Block              |
| 17  | Boot Block Washer        | 18  | Ball Valve                 | 19  | Ball Seat                         | 20  | Ball Seat Sealing Ring  |
| 21  | Stand Column             | 22  | Outer Splint               | 23  | Outer Pressure Plate Sealing Ring | 24  | Outer Pressure Plate    |
| 25  | Teflon Diaphragm         | 26  | Santoprene Diaphragm       | 27  | Inner Pressure Plate              | 28  | Clap Board              |
| 29  | Air Valve Chamber Washer | 30  | Muffler                    | 31  | Connecting Rod Axis Sleeve        | 32  | V-ring                  |
| 33  | Air Valve Chambe         | 34  | Connecting Rod Axis        | 35  | Lower Elbow                       |     |                         |

DIAGRAM OF AIR CONSUMPTION

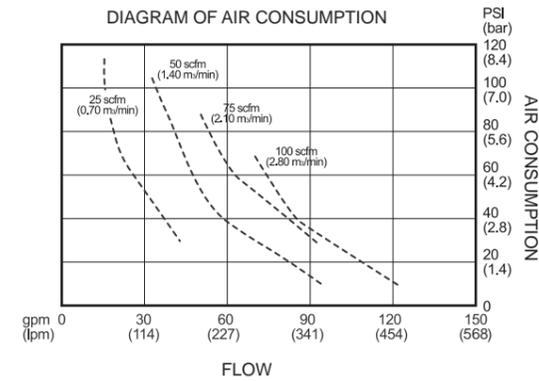
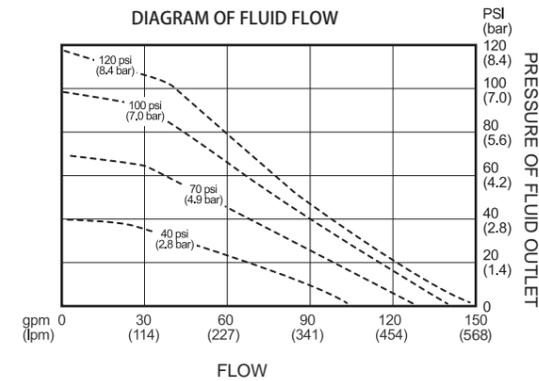
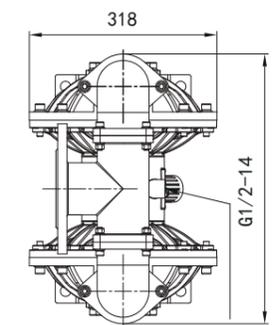


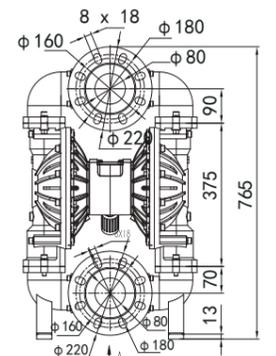
DIAGRAM OF FLUID FLOW



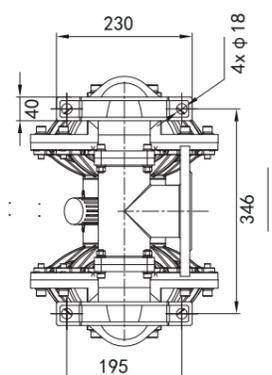
Vertical View



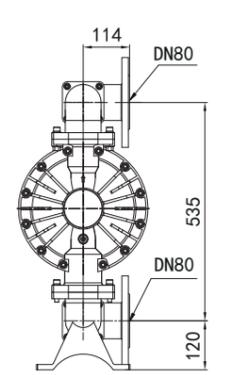
Front View



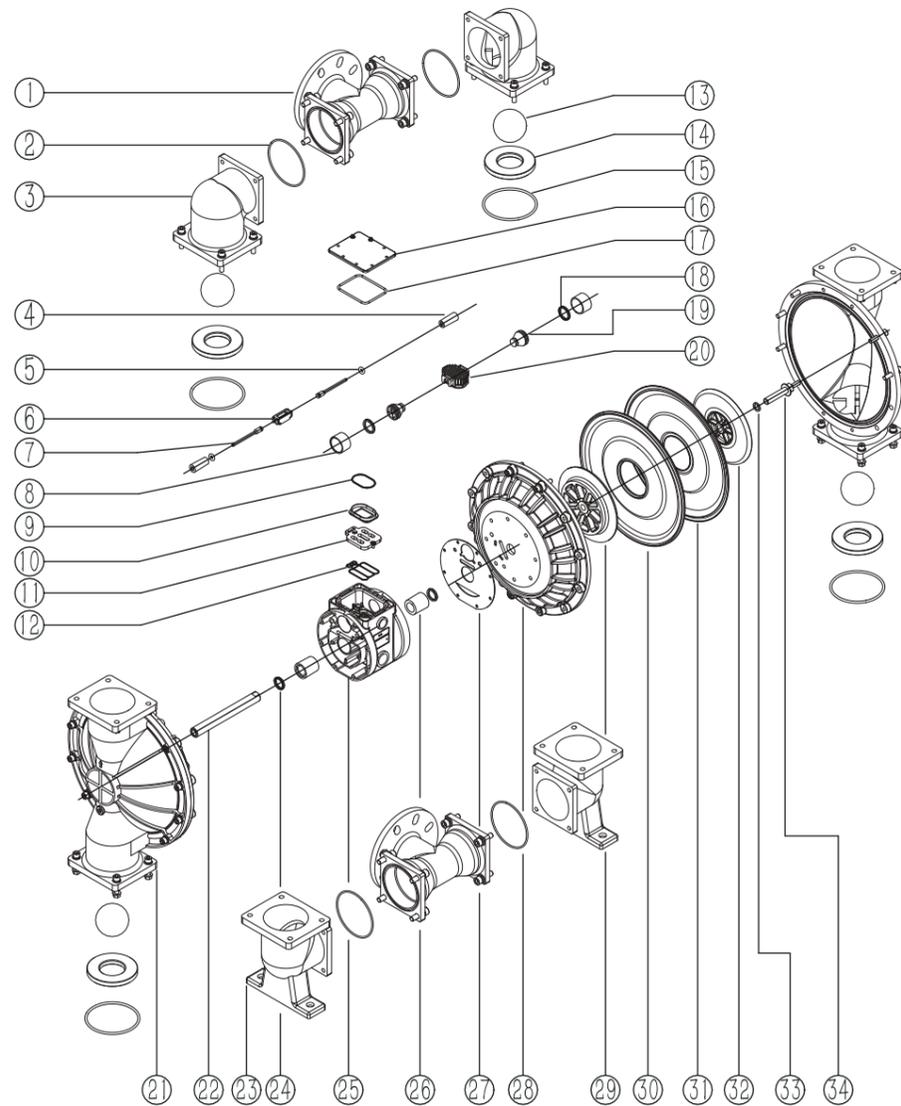
Upward View



Left Side View



Note: GODO Manufacturing Co.,Ltd reserves the right to change product design without prior notice. Please consult sales for latest product size.



### Parts List

| No. | Name                       | No. | Name                       | No. | Name                     | No. | Name                       |
|-----|----------------------------|-----|----------------------------|-----|--------------------------|-----|----------------------------|
| 01  | Tee                        | 02  | Tee Sealing Ring           | 03  | Upper Elbow              | 04  | Booster Power Lever Sleeve |
| 05  | Booster Power Lever O-ring | 06  | Small Slider               | 07  | Booster Power Lever      | 08  | Piston Sleeve              |
| 09  | Large Slider O-ring        | 10  | Large Slider Seat          | 11  | Boot Block               | 12  | Boot Block Washer          |
| 13  | Ball Valve                 | 14  | Ball Seat                  | 15  | Ball Seat Sealing Ring   | 16  | Air Valve Chamber Cover    |
| 17  | Air Valve Cover Washer     | 18  | V-ring                     | 19  | Piston                   | 20  | Large Slider               |
| 21  | Stand Column               | 22  | Connecting Rod Axis        | 23  | Lower Elbow              | 24  | V-ring                     |
| 25  | Air Valve Chamber          | 26  | Connecting Rod Axis Sleeve | 27  | Air Valve Chamber Washer | 28  | Clap Board                 |
| 29  | Inner Splint               | 30  | Santoprene Diaphragm       | 31  | Teflon Diaphragm         | 32  | Outer Splint               |
| 33  | Splint O-ring              | 34  | Splint Screw               |     |                          |     |                            |

## BFQ-80

Aluminum alloy / Stainless steel  
Nodular cast iron / Engineering plastics  
Fluorine plastic

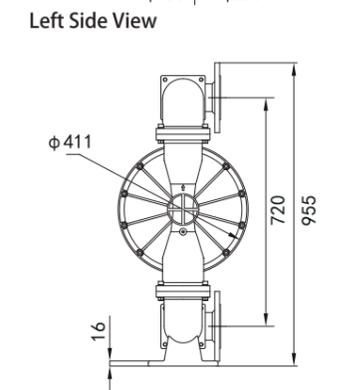
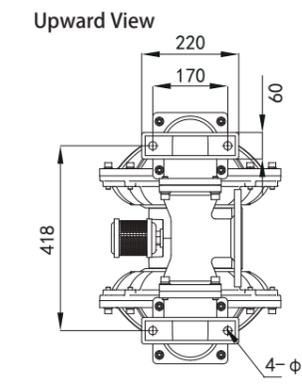
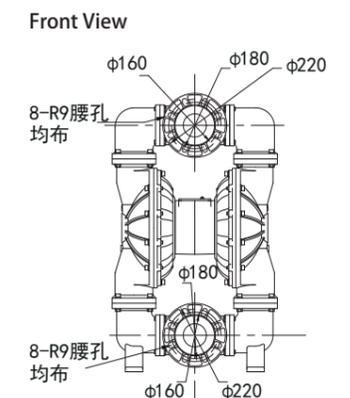
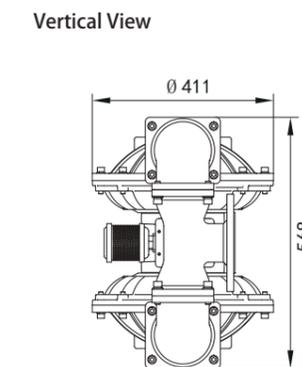
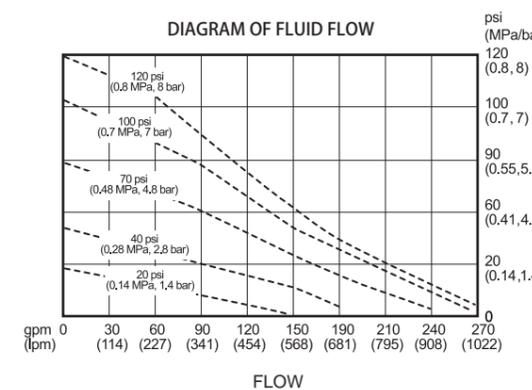
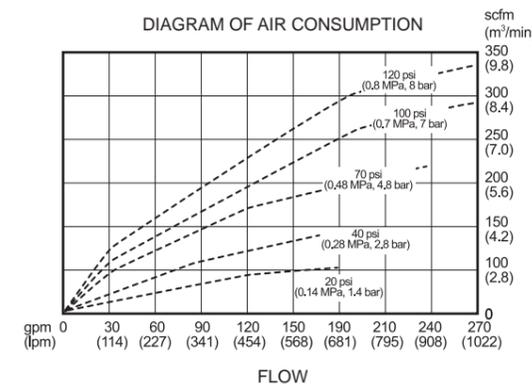
### Specifications

|                                | BFQ-80  |
|--------------------------------|---|
| Max. Flow Rate                 | 1041 lpm  |
| Max. Head                      | 84 m  |
| Max. Suction Height            | 5.48 m  |
| Max. Working Pressure          | 8.4 bar   |
| Fluid Inlet/Outlet Size        | DN80 (3" )  |
| Air Inlet Size                 | 3/4" G (bspp)   |
| Max. Permitted Grain           | 9.4 mm  |
| Max. Air Consumption           | 3.0 m <sup>3</sup> /min   |
| Air Compressor Power           | 18.5~22 kw  |
| Every Reciprocating Flow       | 7.6 L   |
| Max. Reciprocating Speed       | 135 cpm   |
| Pump body structure materials: | Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF |



Stainless steel

### Installation dimensions





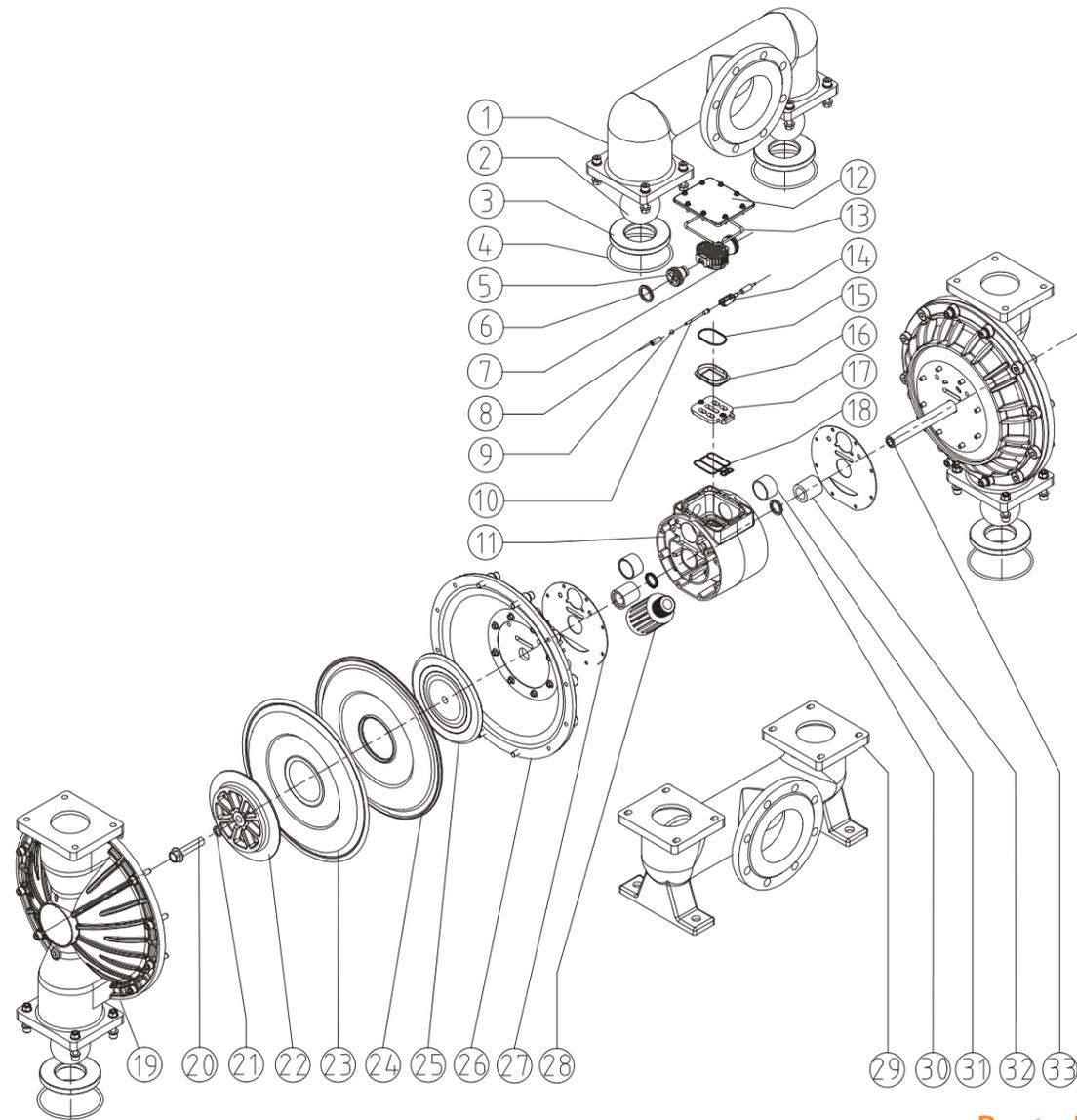
# QBY3-125 Aluminium alloy

## Specifications

| QBY3-125  |                         |
|---|-------------------------|
| Max. Flow Rate  | 1041 lpm                |
| Max. Head   | 84 m                    |
| Max. Suction Height   | 5.48 m                  |
| Max. Working Pressure   | 8.4 bar                 |
| Fluid Inlet/Outlet Size   | DN125 (5" )             |
| Air Inlet Size  | 3/4" G (bspp)           |
| Max. Permitted Grain  | 9.4 mm                  |
| Max. Air Consumption  | 3.0 m <sup>3</sup> /min |
| Air Compressor Power  | 18.5~22 kw              |
| Every Reciprocating Flow  | 7.6 L                   |
| Max. Reciprocating Speed  | 135 cpm                 |
| Pump body structure materials: Cast steel Nodular cast iron Aluminium alloy PP Stainless steel PVDF |                         |



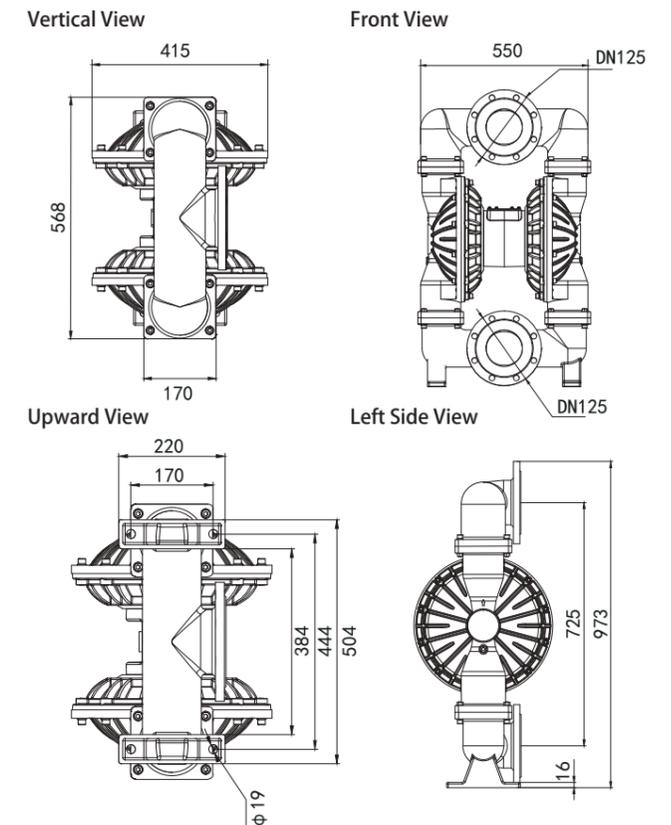
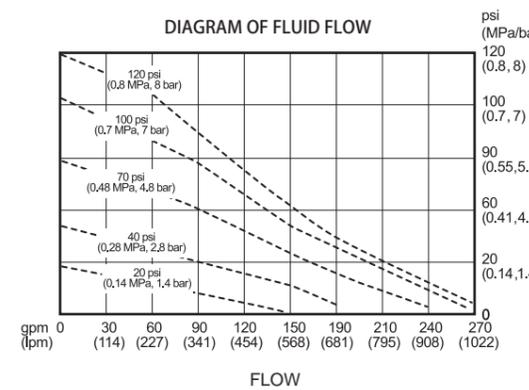
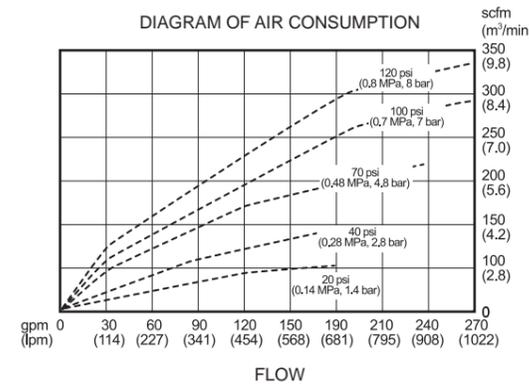
Aluminium alloy



## Parts List

| No. | Name                       | No. | Name                | No. | Name                     | No. | Name                       |
|-----|----------------------------|-----|---------------------|-----|--------------------------|-----|----------------------------|
| 01  | Outlet Manifold            | 02  | Ball Valve          | 03  | Ball Seat                | 04  | Ball Seat Sealing Ring     |
| 05  | Piston                     | 06  | Piston V-ring       | 07  | Large Slider             | 08  | Booster Power Lever Sleeve |
| 09  | Booster Power Lever O-ring | 10  | Booster Power Lever | 11  | Air Valve Chamber        | 12  | Air Valve Chamber Cover    |
| 13  | Air Valve Cover Washer     | 14  | Small Slider        | 15  | Large Slider O-ring      | 16  | Large Slider Seat          |
| 17  | Boot Block                 | 18  | Boot Block Washer   | 19  | Stand Column             | 20  | Splint Screw               |
| 21  | Splint O-ring              | 22  | Outer Splint        | 23  | Teflon Diaphragm         | 24  | Santoprene Diaphragm       |
| 25  | Inner Splint               | 26  | Clap Board          | 27  | Air Valve Chamber Washer | 28  | Muffler                    |
| 29  | Inlet Manifold             | 30  | V-ring              | 31  | Piston Sleeve            | 32  | Connecting Rod Axis Sleeve |
| 33  | Connecting Rod Axis        |     |                     |     |                          |     |                            |

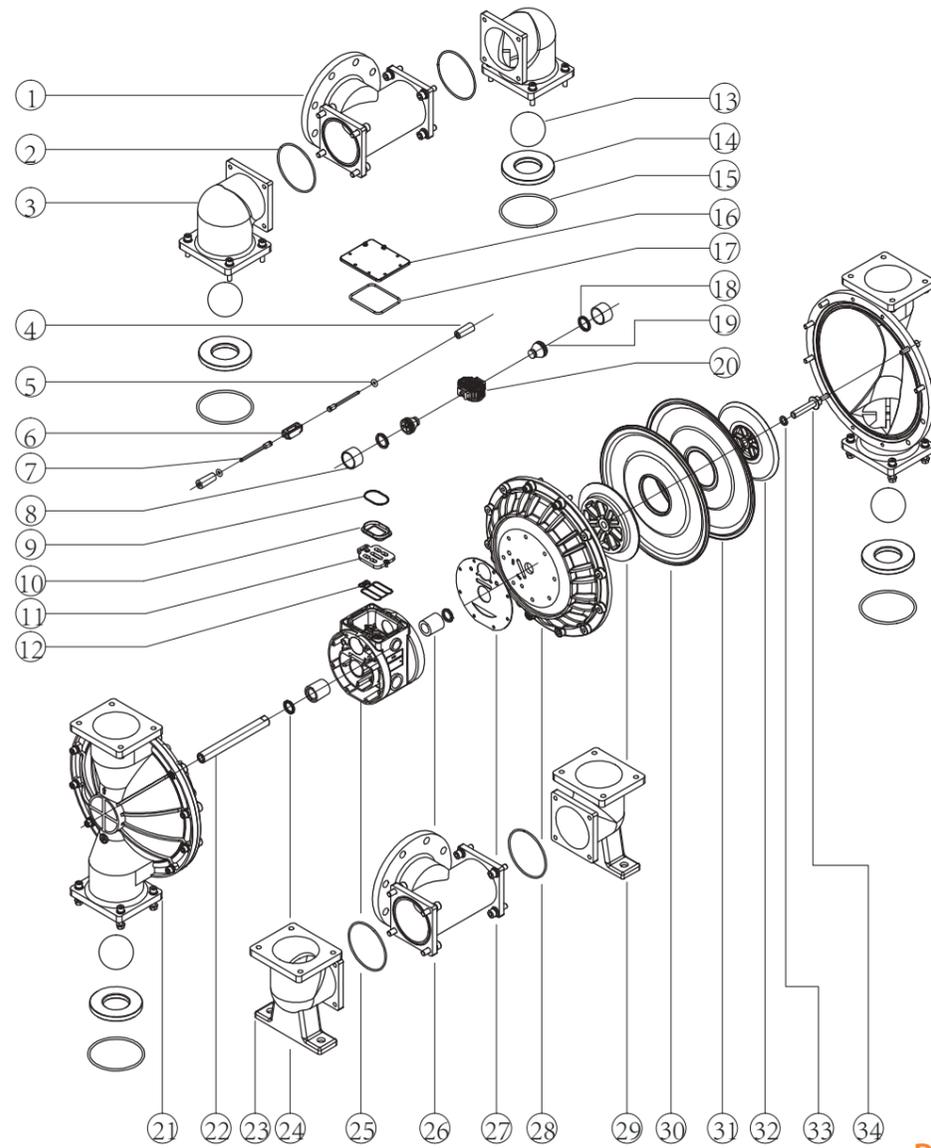
## Installation dimensions



Note: GODO Manufacturing Co.,Ltd reserves the right to change product design without prior notice. Please consult sales for latest product size.



# QBY3-125 Stainless steel / Nodular cast iron



### Parts List

| No. | Name                       | No. | Name                       | No. | Name                     | No. | Name                       |
|-----|----------------------------|-----|----------------------------|-----|--------------------------|-----|----------------------------|
| 01  | Tee                        | 02  | Tee Sealing Ring           | 03  | Upper Elbow              | 04  | Booster Power Lever Sleeve |
| 05  | Booster Power Lever O-ring | 06  | Small Slider               | 07  | Booster Power Lever      | 08  | Piston Sleeve              |
| 09  | Large Slider O-ring        | 10  | Large Slider Seat          | 11  | Boot Block               | 12  | Boot Block Washer          |
| 13  | Ball Valve                 | 14  | Ball Seat                  | 15  | Ball Seat Sealing Ring   | 16  | Air Valve Chamber Cover    |
| 17  | Air Valve Cover Washe      | 18  | V-ring                     | 19  | Piston                   | 20  | Large Slider               |
| 21  | Stand Column               | 22  | Connecting Rod Axis        | 23  | Lower Elbow              | 24  | V-ring                     |
| 25  | Air Valve Chamber          | 26  | Connecting Rod Axis Sleeve | 27  | Air Valve Chamber Washer | 28  | Clap Board                 |
| 29  | Inner Splint               | 30  | Santoprene Diaphragm       | 31  | Teflon Diaphragm         | 32  | Outer Splint               |
| 33  | Splint O-ring              | 34  | Splint Screw               |     |                          |     |                            |



Stainless steel

### Specifications

| QBY3-125                       | QBY3-125  |
|--------------------------------|---|
| Max. Flow Rate                 | 1041 lpm  |
| Max. Head                      | 84 m  |
| Max. Suction Height            | 5.48 m  |
| Max. Working Pressure          | 8.4 bar   |
| Fluid Inlet/Outlet Size        | DN125 (5" )   |
| Air Inlet Size                 | 3/4" G (bspp)   |
| Max. Permitted Grain           | 9.4 mm  |
| Max. Air Consumption           | 3.0 m³/min  |
| Air Compressor Power           | 18.5~22 kw  |
| Every Reciprocating Flow       | 7.6 L   |
| Max. Reciprocating Speed       | 135 cpm   |
| Pump body structure materials: | Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF |

### Installation dimensions

