



Innovative fluid solutions.

The choice of trust in the chemical industry

BFQ / BFD 系列

PRODUCT CATALOG



Anhui Changyu pump and valve manufacturing Co., LTD

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whatsapp

CORPORATE INTRO

Anhui Changyu Pump & Valve Manufacturing Co., Ltd. was established in 2006 and has more than 20 years of industry experience. It integrates R&D, production, sales and service, Concentrating on the corrosion resistance and safe transportation of valuable fluids, with an annual output of 20,000 units.

Changyu is an industrial enterprise supported by the Xuancheng Municipal Government, covering an area of 20,000 square meters, and ranks among the top four industrial manufacturing enterprises in the region.

The company has passed ISO 9001, CE, CQC, KC and other certifications. It is a national high-tech enterprise with more than 50 patents and has won the titles of Xuancheng City's "Specialized, Refined and New" Enterprise (SRII), "Famous Trademark of Anhui Province" and "Contract-abiding and Credit-worthy".

Changyu products are sold to 30 regions in China and exported to more than 20 countries including Europe, Africa, and Central Asia.

At present, the new factory has been successfully completed. The total investment of this factory amounts to 100 million yuan, with a total area of 20,000 square meters. It has over 70 employees and is a digital factory integrating 5G technology and intelligence.



20000+ square meter

floor area

3500 Ten thousand yuan

Total investment

20000 Table

Annual production capacity

100+ individual

Enterprise certificate

Development History

2009

Firstly passed the ISO9001 quality management system certification, laying the foundation for quality.

2008

Successfully developed the first UHB-ZK type corrosion-resistant and wear-resistant mortar pump independently, and put it into production.

2006

Anhui Changyu Chemical Pump Valve Co., Ltd. was established to start the journey of the chemical pump valve industry.

2012

Develop and mass-produce CYQ type fluoroplastic magnetic pump, and the technical level has reached a new

2011

Independently developed FYH type corrosion-resistant and wear-resistant submersible pump fills the market gap.

2010

The innovation and research and development of UHB-ZK type double-end face modular mechanical seal have been realized, and the mechanical seal can be interchanged to the working conditions, and the installation dimensions are consistent.

2015

The company renamed to "Anhui Changyu Pump and Valve Manufacturing Co., Ltd." and embarked on the road of brand upgrading. It was honored the title of National High-tech Enterprise and won the title of "Anhui Province Special Small and Medium-sized Enterprises" for the first time. The products were selected the "Five Hundred" recommendation catalog of the national industrial field energy-saving and environmental protection industry.

2014

Develop large flow, high lift chemical pumps with a caliber of 250 to expand the product application field.



2020

UHB series high temperature resistant non-leak fluoroplastic chemical corrosion pump won the new product certificate of Anhui Province.

2019

Develop 100UHB-400 type high-efficiency pump body and impeller, and innovate low-speed and high-lift pump.

2022

Firstly obtained the "A-level Certificate of Two-Industrialization Integration Management System".

2021

Fully activate the Zhibang International ERP system, achieving integrated and digitalized management of sales, production, procurement, quality inspection, warehousing and finance.



2024

Successfully passed the ISO 14001 environmental management system and ISO 45001 occupational health and safety management system certification

2023

Awarded the "Energy Management System Certification", further enhancing the green manufacturing capability.

ENTERPRISE QUALIFICATIONS



The recognition of professional institutions explains Changyu's continuous investment in products and technologies. After ten years of efforts, Changyu pumps are accelerating their emergence in the niche market of acid and alkali resistant chemical pumps.

The recognition from professional institutions interprets the wisdom and efforts of Changyu over the years. After years of hardship and tempering, and in the process of continuous innovation and expansion, we have gained the approval of a large number of users and the society.



选型表

Model Selection Table

过流部件

Fluid Contact Parts

铸钢 Cast steel	球铁 nodular cast iron	铝合金 Aluminum alloy	塑料PP聚丙烯 PP	不锈钢304 Stainless steel 304	不锈钢316 Stainless Steel 316	不锈钢316L Stainless Steel 316L	氟塑料 PVDF	特氟龙 Teflon
G	Q	L	S	P	P316	P316L	F	T

隔膜材料

Diaphragm Materials

丁腈 Gather rubber	三道 Santoprene	聚醚 Polyether	特氟龙 Teflon	超特氟龙 Super Teflon
D	A	M	T	G
三道+特氟龙 Santoprene +Teflon	三道+超特氟龙 Santoprene +Super Teflon	聚醚+特氟龙 Polyether +Teflon	聚醚+超特氟龙 Santoprene +Super Teflon	
T	N	K	H	

阀球

Valve Ball

丁腈 Gather rubber	三道 Santoprene	四氟 PTFE	不锈钢304 Stainless steel 304	不锈钢316 Stainless Steel 316	不锈钢316L Stainless Steel 316L	工程塑料 PP
D	A	F	P	P316	P316L	S

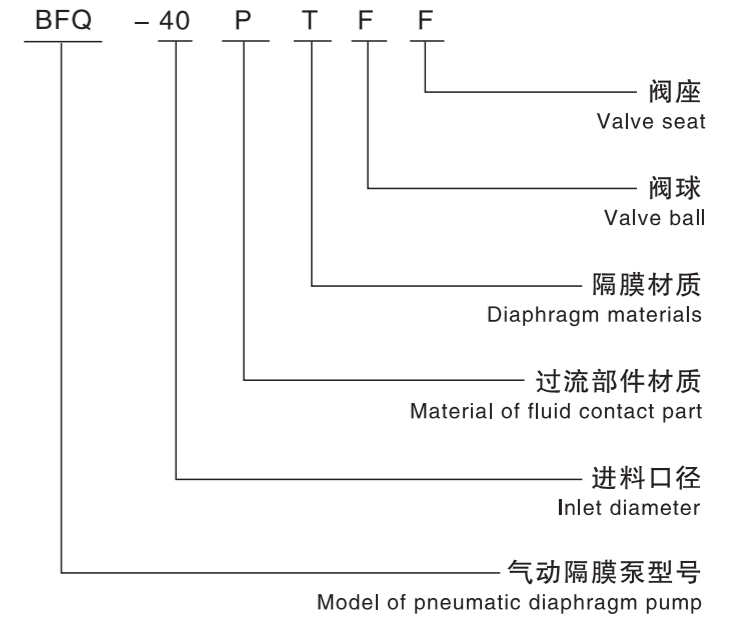
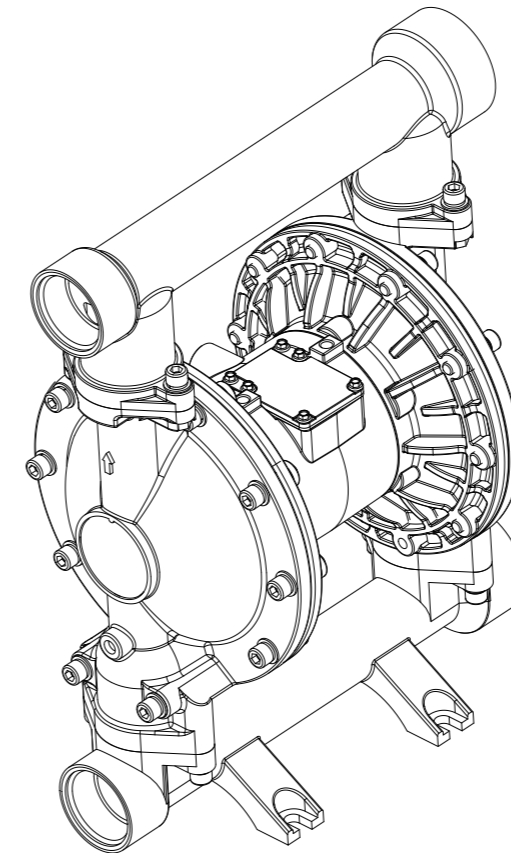
阀座

Valve Seat

三道 Santoprene	四氟 PTFE	不锈钢304 Stainless steel 304	不锈钢316 Stainless Steel 316	不锈钢316L Stainless Steel 316L	工程塑料 PP
A	F	P	P316	P316L	S

DESIGNATION

型号意义





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大流量隔膜泵

BFQ/BFD系列

High-flow diaphragm pump BFQ/BFD series



Benchmarking against renowned international products

Changyu, a leading Chinese company in the diaphragm pump industry, actively responded to national calls. Leveraging decades of technological expertise, Changyu benchmarked against renowned international products, conducting innovative research addressing various operational issues with diaphragm pumps.

Continuously striving for excellence in design, material selection, craftsmanship, and quality control, Changyu's products immediately gained widespread popularity and were exported to markets including Russia, Bulgaria, Australia, Vietnam, Thailand, and Indonesia.



无密封设计
Unsealed design

容易维修
Easy to repair

允许空运转
Allow for idle load running

防爆
Anti-explosion

国外品牌替换



03

对比项目 CONTRAST ITEM

功能一样

进口泵	BFQ-40L
进出口口径: DN40 Inlet and outlet size	进出口口径: DN40 Inlet and outlet size
最大流量: 378.5L/min Maximum flow	最大流量: 378.5L/min Maximum flow
最大扬程: 84m Maximum head	最大扬程: 84m Maximum head
最大吸程: 5.48m Maximum suction lift	最大吸程: 5.48m Maximum suction lift
最大输送固体颗粒: 4.8mm Maximum solid particle size	最大输送固体颗粒: 4.8mm Maximum solid particle size
最大压力: 0.84Mpa Maximum pressure	最大压力: 0.84Mpa Maximum pressure

进口隔膜泵

Imported diaphragm pump

畅宇大流量泵

Changyu high-flow pump

(以铝合金DN40为例)

04

BFQ-25 BFQ-25

Stainless Steel / Cast Steel 不锈钢/铸钢

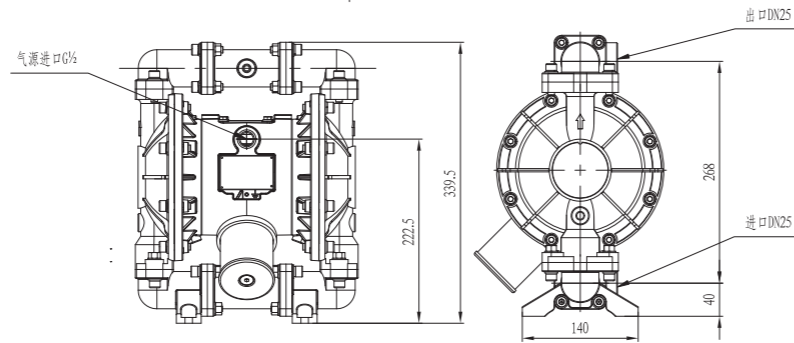
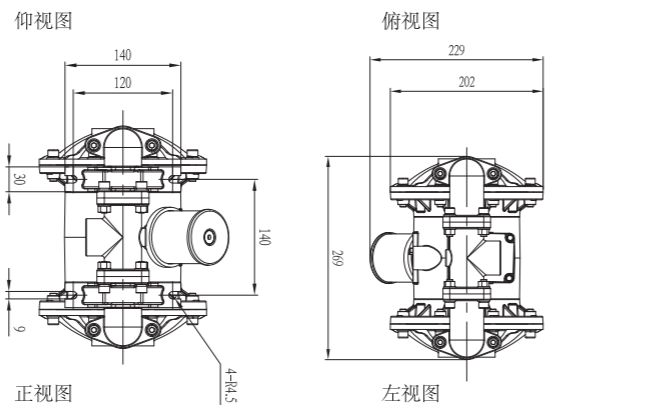
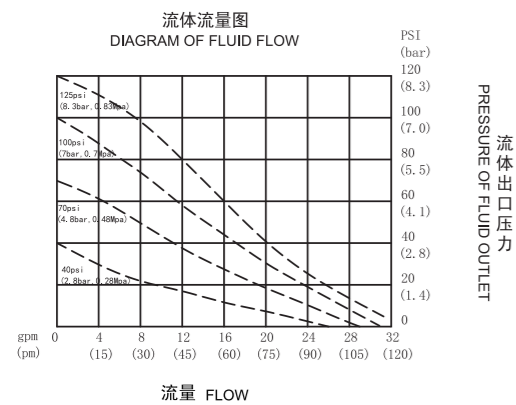
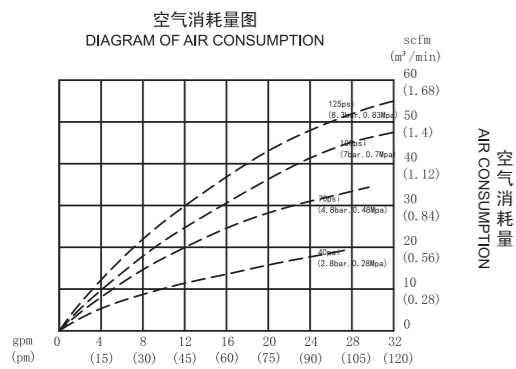
Specifications 规格参数



不锈钢

	BFQ-25
最大工作流量 Max. Flow	31 gpm (116 lpm)
最大工作压力 Max. Working Pressure	120 psi (0.84 Mpa, 8.4 bar)
流体进口尺寸 Fluid Inlet Size	1 in. bsp (f)
流体出口尺寸 Fluid Outlet Size	1 in. bsp (f)
空气进口尺寸 Air Inlet Size	1/2 in. bsp (f)
最大虹吸高度 (干抽或湿抽)	18 ft. (5.48 m)
Max.Suction Height (dry suction or wet suction)	18 ft. (5.48 m)
最大输送固体颗粒 Max. Permitted Grain	1/8 in. (3.2 mm)
最大空气消耗量 Max. Air Consumption	23.66 scfm
每往复流量 Every Reciprocating Flow	0.15 gal. (0.57 L)
最大往复速度 Max. Reciprocating Speed	276 cpm
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF	
Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF	

Installation dimensions 安装尺寸



氟塑料

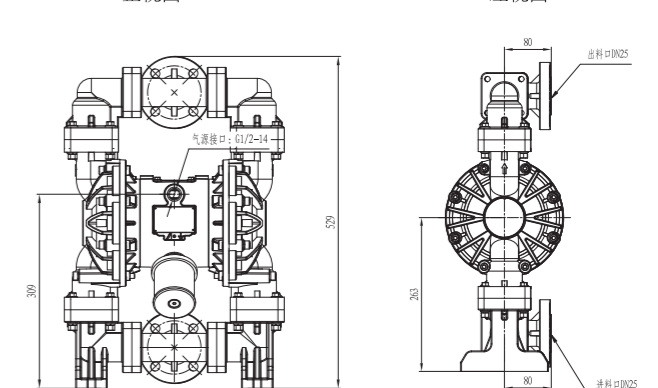
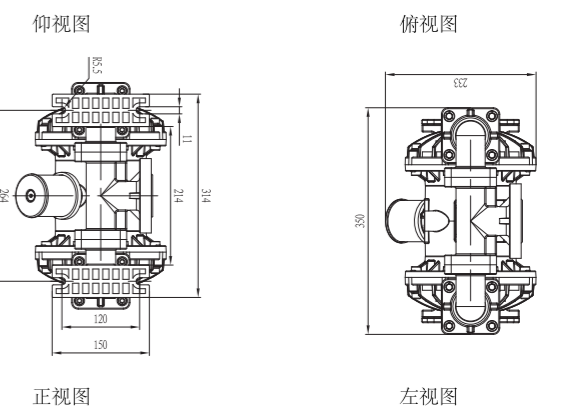
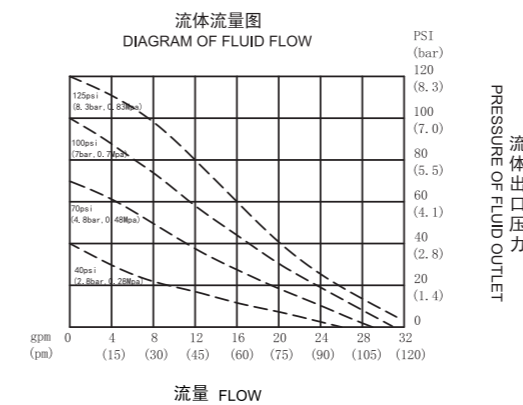
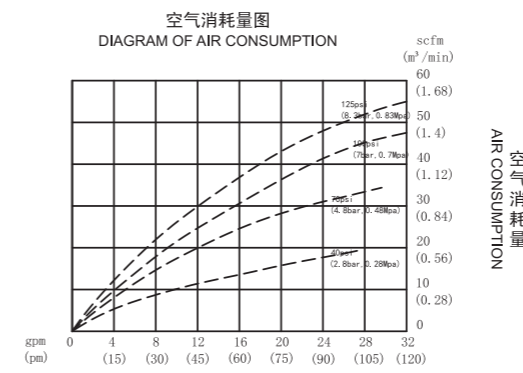
BFQ-25 BFQ-25

Plastic PP Polypropylene / Fluoroplastic 塑料PP聚丙烯/氟塑料

Specifications 规格参数

	BFQ-25
最大工作流量 Max. Flow	31 gpm (116 lpm)
最大工作压力 Max. Working Pressure	120 psi (0.84 Mpa, 8.4 bar)
流体进口尺寸 Fluid Inlet Size	1 in. bsp (f)
流体出口尺寸 Fluid Outlet Size	1 in. bsp (f)
空气进口尺寸 Air Inlet Size	1/2 in. bsp (f)
最大虹吸高度 (干抽或湿抽)	18 ft. (5.48 m)
Max.Suction Height (dry suction or wet suction)	18 ft. (5.48 m)
最大输送固体颗粒 Max. Permitted Grain	1/8 in. (3.2 mm)
最大空气消耗量 Max. Air Consumption	23.66 scfm
每往复流量 Every Reciprocating Flow	0.15 gal. (0.57 L)
最大往复速度 Max. Reciprocating Speed	276 cpm
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF	
Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF	

Installation dimensions 安装尺寸



BFQ-40 BFQ-40

Aluminum Alloy / Stainless Steel / Ductile Iron 铝合金/不锈钢/球铁

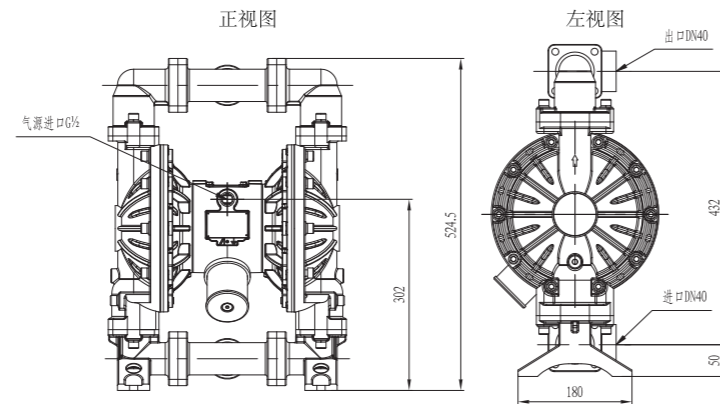
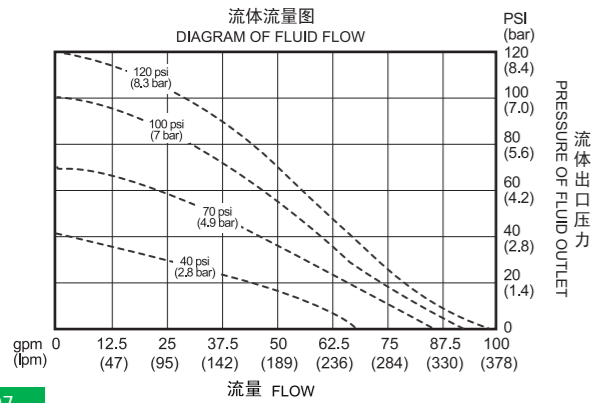
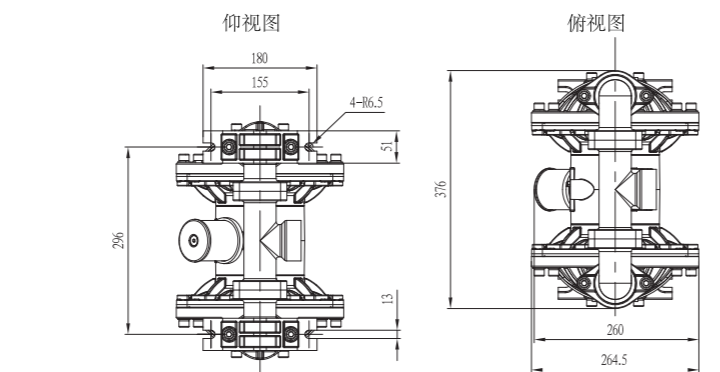
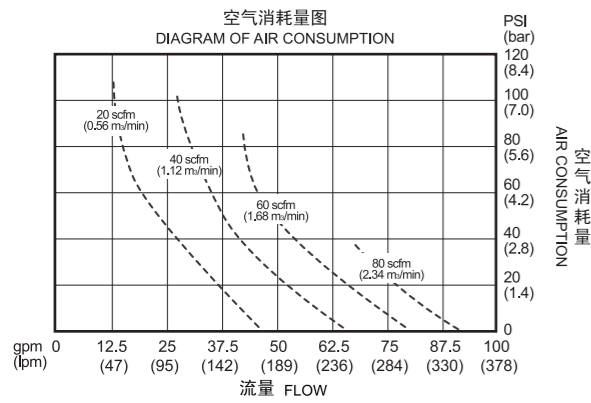
Specifications 规格参数



铝合金

	BFQ-40
最大工作流量 Max. Flow	100 gpm (378.5 lpm)
最大工作压力 Max. Working Pressure	120 psi (0.84 Mpa, 8.4 bar)
流体进口尺寸 Fluid Inlet Size	1-1/2 in. bsp (f)
流体出口尺寸 Fluid Outlet Size	1-1/2 in. bsp (f)
空气进口尺寸 Air Inlet Size	1/2 in. bsp (f)
最大虹吸高度 (干抽或湿抽) Max.Suction Height (dry suction or wet suction)	18 ft. (5.48 m)
最大输送固体颗粒 Max. Permitted Grain	3/16 in. (4.8 mm)
最大空气消耗量 Max. Air Consumption	32 scfm
每往复流量 Every Reciprocating Flow	0.5 gal. (1.9 L)
最大往复速度 Max. Reciprocating Speed	200 cpm
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF	
Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF	

Installation dimensions 安装尺寸



BFQ-40 BFQ-40

Plastic PP Polypropylene / Fluoroplastic 塑料PP聚丙烯/氟塑料

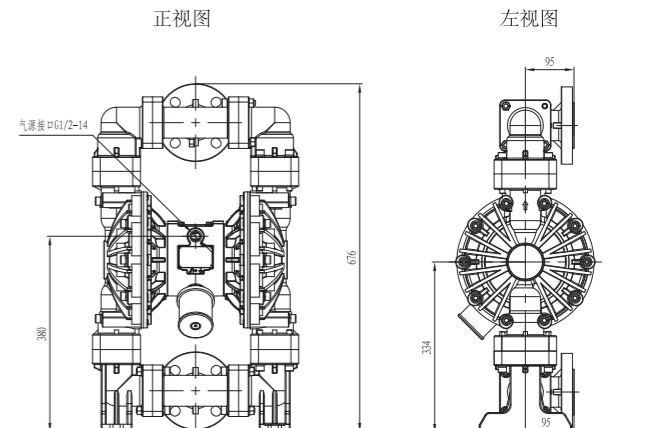
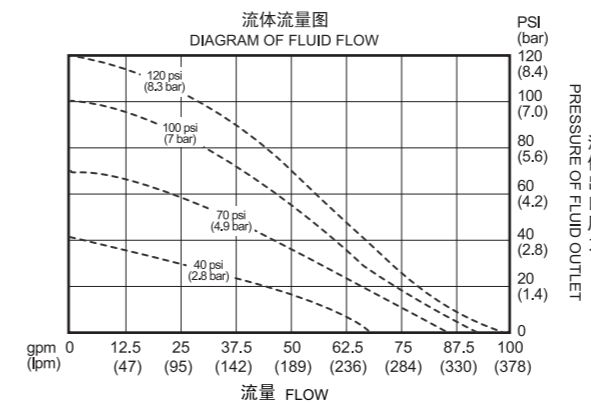
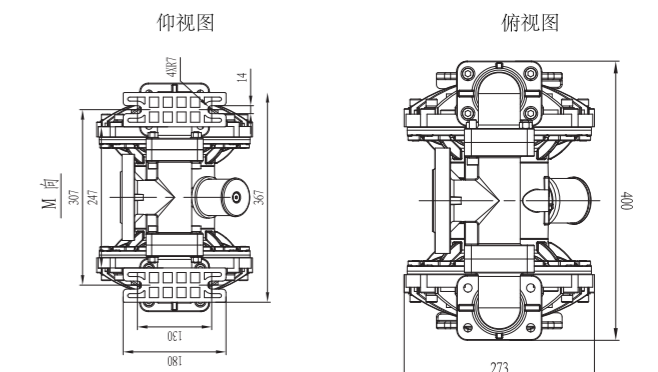
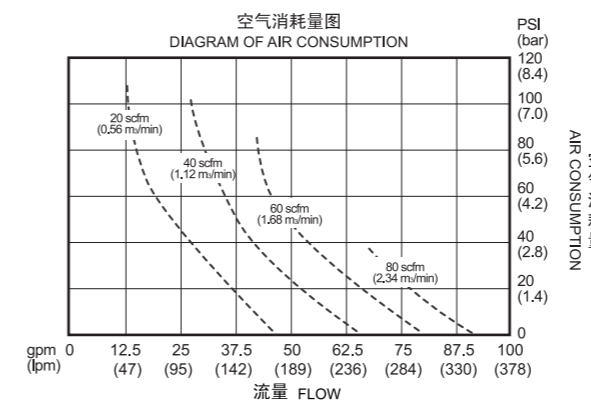
Specifications 规格参数



氟塑料

	BFQ-40
最大工作流量 Max. Flow	100 gpm (378.5 lpm)
最大工作压力 Max. Working Pressure	120 psi (0.84 Mpa, 8.4 bar)
流体进口尺寸 Fluid Inlet Size	1-1/2 in. bsp (f)
流体出口尺寸 Fluid Outlet Size	1-1/2 in. bsp (f)
空气进口尺寸 Air Inlet Size	1/2 in. bsp (f)
最大虹吸高度 (干抽或湿抽) Max.Suction Height (dry suction or wet suction)	18 ft. (5.48 m)
最大输送固体颗粒 Max. Permitted Grain	3/16 in. (4.8 mm)
最大空气消耗量 Max. Air Consumption	32 scfm
每往复流量 Every Reciprocating Flow	0.5 gal. (1.9 L)
最大往复速度 Max. Reciprocating Speed	200 cpm
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF	
Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF	

Installation dimensions 安装尺寸



BFQ-50 BFQ-50

Aluminum Alloy / Stainless Steel / Ductile Iron 铝合金/不锈钢/球铁

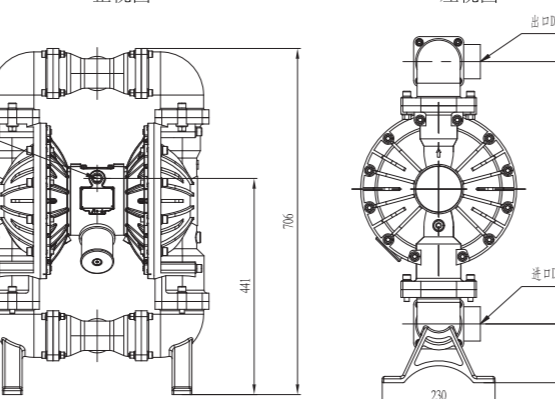
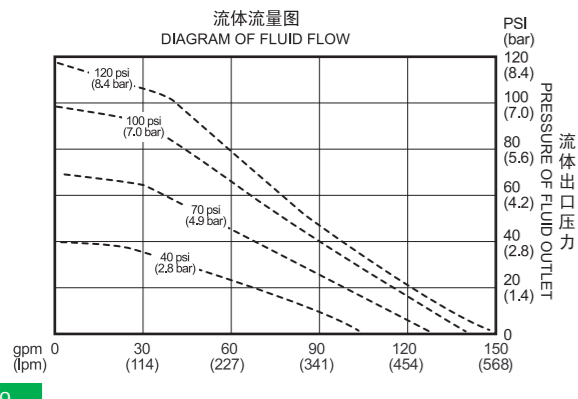
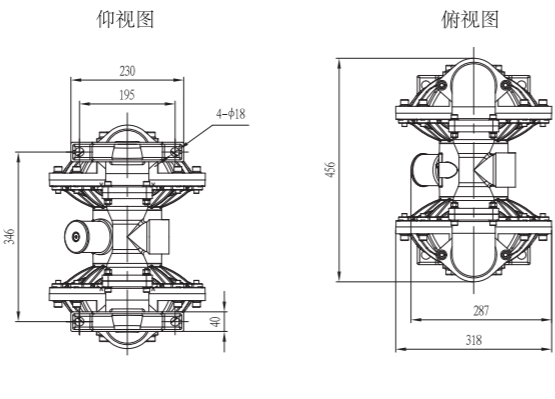
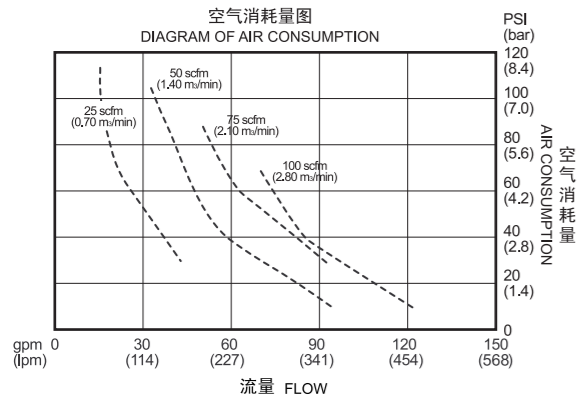
Specifications 规格参数



不锈钢

BFQ-50	规格参数
最大工作流量 Max. Flow	150 gpm (568 lpm)
最大工作压力 Max. Working Pressure	120 psi (0.84 Mpa, 8.4 bar)
流体进口尺寸 Fluid Inlet Size	2 in. bsp (f)
流体出口尺寸 Fluid Outlet Size	2 in. bsp (f)
空气进口尺寸 Air Inlet Size	1/2 in. bsp (f)
最大虹吸高度 (干抽或湿抽) Max.Suction Height (dry suction or wet suction)	18 ft. (5.48 m)
最大输送固体颗粒 Max. Permitted Grain	1/4 in. (6.4 mm)
最大空气消耗量 Max. Air Consumption	45 scfm
每往复流量 Every Reciprocating Flow	1.03 gal. (3.90 L)
最大往复速度 Max. Reciprocating Speed	145 cpm
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF	Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF

Installation dimensions 安装尺寸



BFQ-50 BFQ-50

Plastic PP Polypropylene / Fluoroplastic 塑料PP聚丙烯/氟塑料

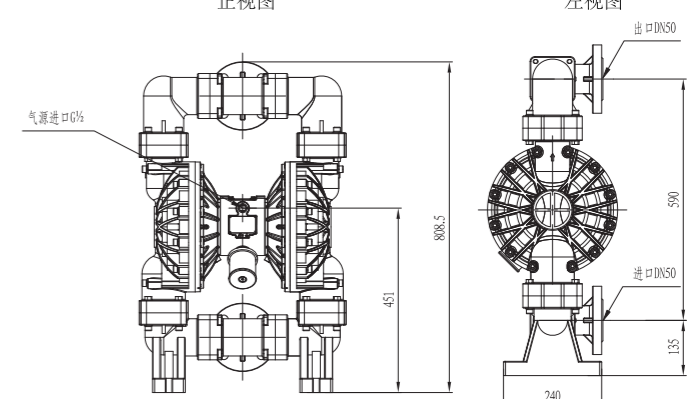
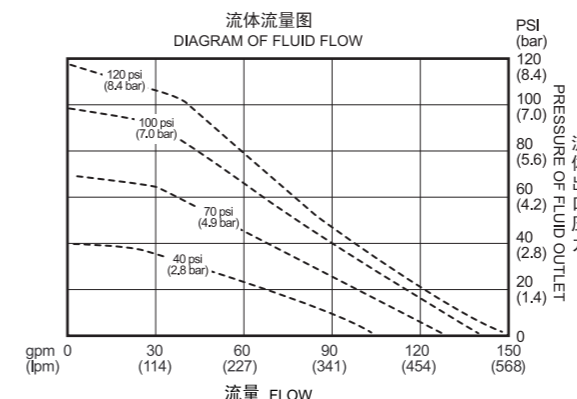
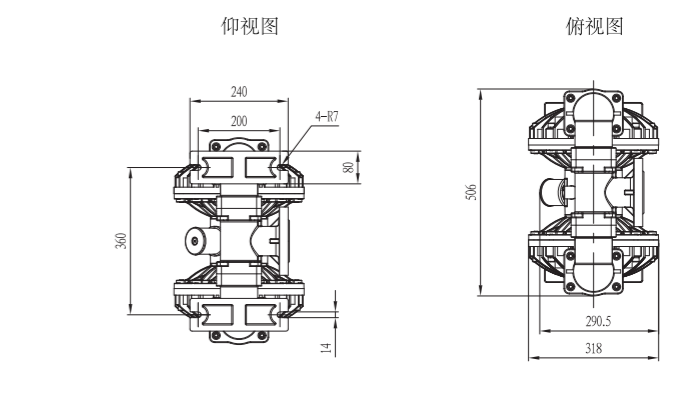
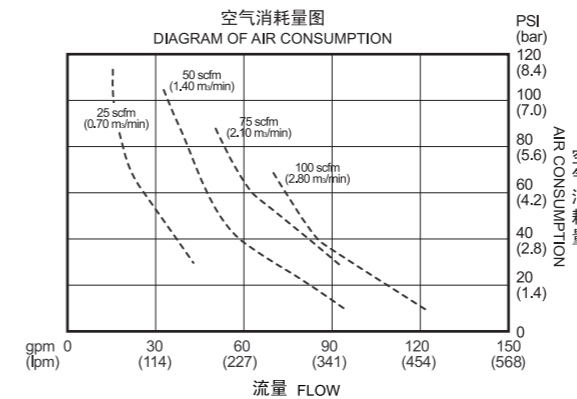
Specifications 规格参数



氟塑料

BFQ-50	规格参数
最大工作流量 Max. Flow	150 gpm (568 lpm)
最大工作压力 Max. Working Pressure	120 psi (0.84 Mpa, 8.4 bar)
流体进口尺寸 Fluid Inlet Size	2 in. bsp (f)
流体出口尺寸 Fluid Outlet Size	2 in. bsp (f)
空气进口尺寸 Air Inlet Size	1/2 in. bsp (f)
最大虹吸高度 (干抽或湿抽) Max.Suction Height (dry suction or wet suction)	18 ft. (5.48 m)
最大输送固体颗粒 Max. Permitted Grain	1/4 in. (6.4 mm)
最大空气消耗量 Max. Air Consumption	45 scfm
每往复流量 Every Reciprocating Flow	1.03 gal. (3.90 L)
最大往复速度 Max. Reciprocating Speed	145 cpm
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF	Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF

Installation dimensions 安装尺寸



BFQ-80 BFQ-80

Aluminum Alloy / Stainless Steel / Ductile Iron 铝合金/不锈钢/球铁

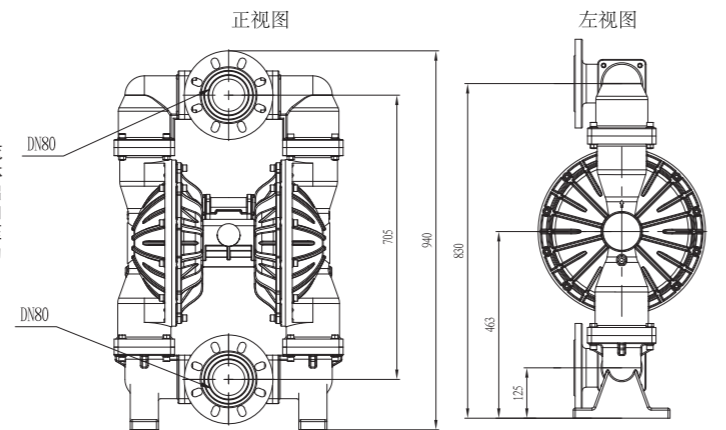
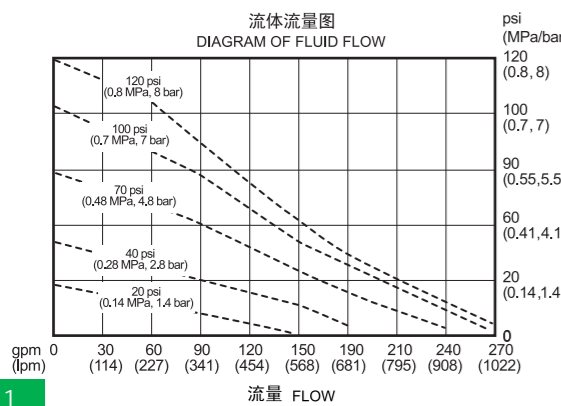
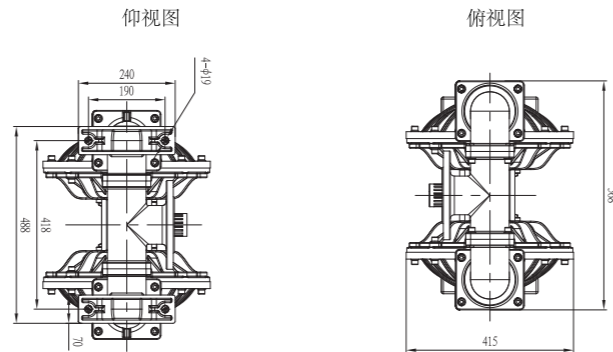
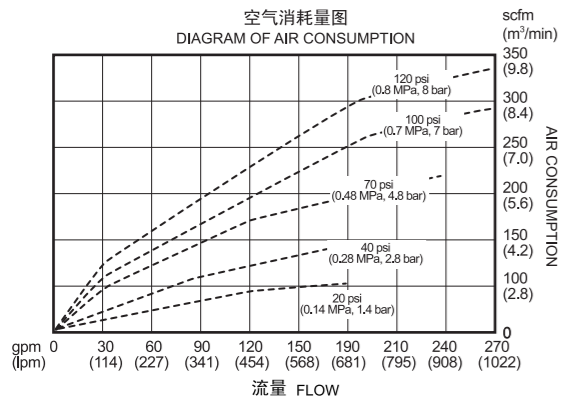
Specifications 规格参数



不锈钢

最大工作流量 Max. Flow	BFQ-80 275 gpm (1041 lpm)
最大工作压力 Max. Working Pressure	120 psi (0.84 Mpa, 8.4 bar)
流体进口尺寸 Fluid Inlet Size	3 in. bsp (f)
流体出口尺寸 Fluid Outlet Size	3 in. bsp (f)
空气进口尺寸 Air Inlet Size	3/4 in. bsp (f)
最大虹吸高度 Max. Suction Height 湿抽 wet suction	25 ft. (7.6 m)
最大输送固体颗粒 Max. Permitted Grain	3/8 in. (9.4 mm)
最大空气消耗量 Max. Air Consumption	82.6 scfm
每往复流量 Every Reciprocating Flow	2.0 gal. (7.6 L)
最大往复速度 Max. Reciprocating Speed	135 cpm
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF	
Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF	

Installation dimensions 安装尺寸



BFQ-80 BFQ-80

Plastic PP Polypropylene / Fluoroplastic 塑料PP聚丙烯/氟塑料

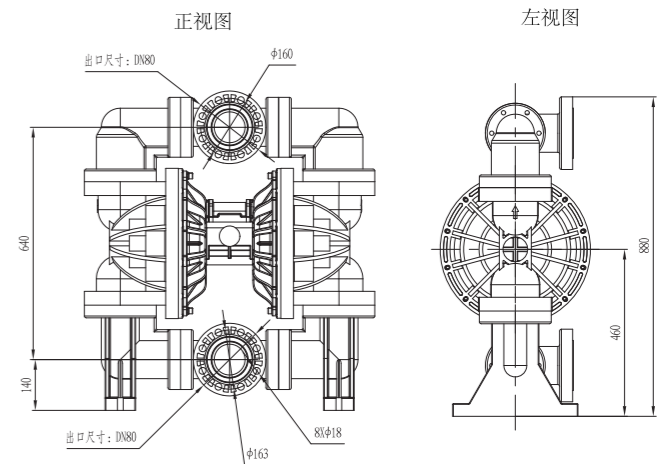
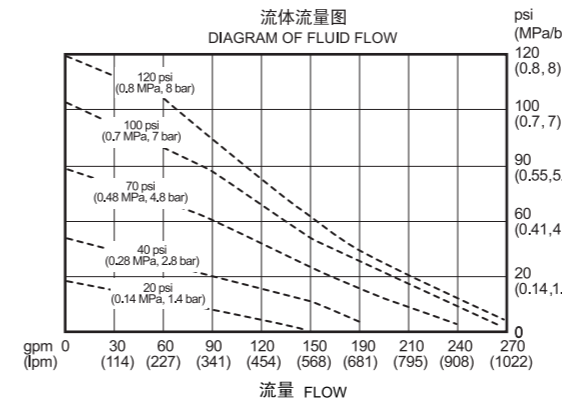
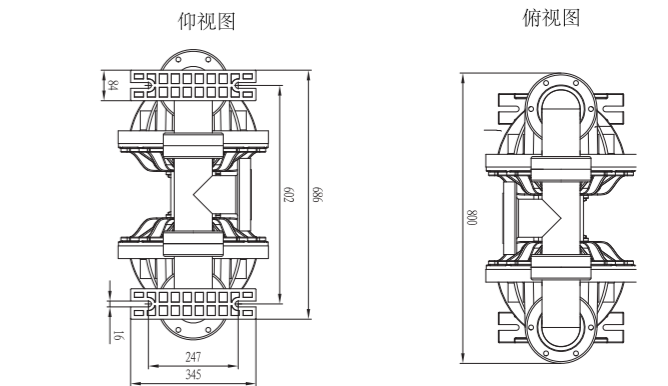
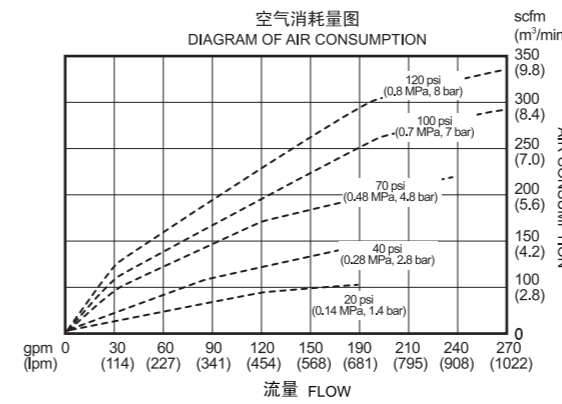
Specifications 规格参数



氟塑料

最大工作流量 Max. Flow	BFQ-80 275 gpm (1041 lpm)
最大工作压力 Max. Working Pressure	120 psi (0.84 Mpa, 8.4 bar)
流体进口尺寸 Fluid Inlet Size	3 in. bsp (f)
流体出口尺寸 Fluid Outlet Size	3 in. bsp (f)
空气进口尺寸 Air Inlet Size	3/4 in. bsp (f)
最大虹吸高度 Max. Suction Height 湿抽 wet suction	25 ft. (7.6 m)
最大输送固体颗粒 Max. Permitted Grain	3/8 in. (9.4 mm)
最大空气消耗量 Max. Air Consumption	82.6 scfm
每往复流量 Every Reciprocating Flow	2.0 gal. (7.6 L)
最大往复速度 Max. Reciprocating Speed	135 cpm
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF	
Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF	

Installation dimensions 安装尺寸



BFD-25 Aluminum Alloy / Stainless Steel / Cast Steel 铝合金/不锈钢/铸钢

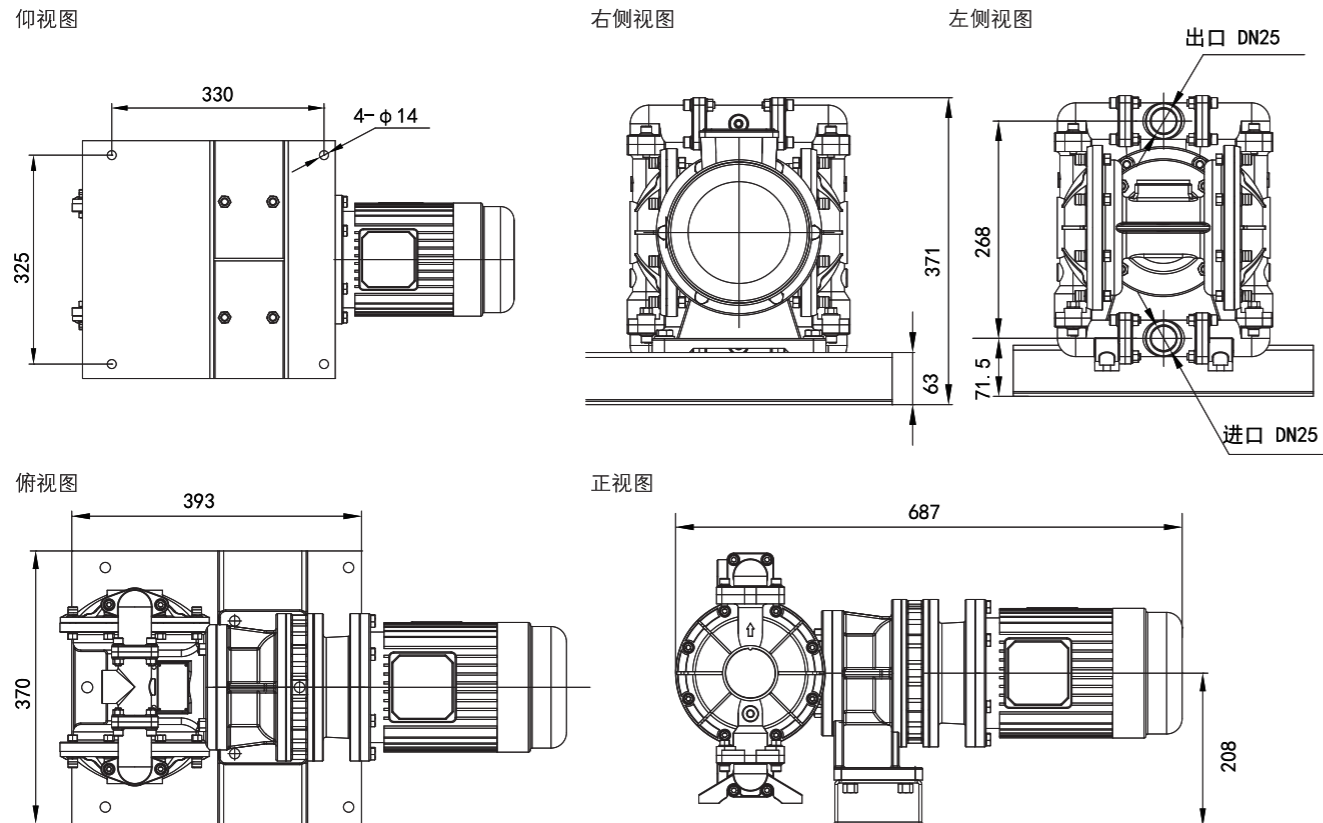
Specifications 规格参数



不锈钢

	BFD-25	BFDS-25
最大工作流量 Max.Flow	12.7gpm (48Lpm)	12.7gpm (48Lpm)
最大工作压力 Max.Working Pressure	58psi (0.4Mpa, 4bar)	102psi (0.7Mpa, 7bar)
流体进口尺寸 Fluid Inlet Size	1in.bsp (f)	1in.bsp (f)
流体出口尺寸 Fluid Outlet Size	1in.bsp (f)	1in.bsp (f)
最大虹吸高度(干抽或湿抽) Max.Suction height(dry suction or wet suction)	13ft.(4m)	13ft.(4m)
最大输送固体颗粒 Max.Permitted Grain	1/8in.(3.2mm)	1/8in.(3.2mm)
每往复流量 Every Reciprocating Flow	0.15gallon(0.57L)	0.15gallon(0.57L)
最大往复速度 Max.Reciprocating Speed	85cpm	85cpm
出口压力 Outlet Pressure	0.4Mpa	0.7Mpa
电机功率 Motor power	1.5kw	2.2kw
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF		

Installation dimensions 安装尺寸



BFD-25 Plastic PP Polypropylene / Fluoroplastic 塑料PP聚丙烯/氟塑料

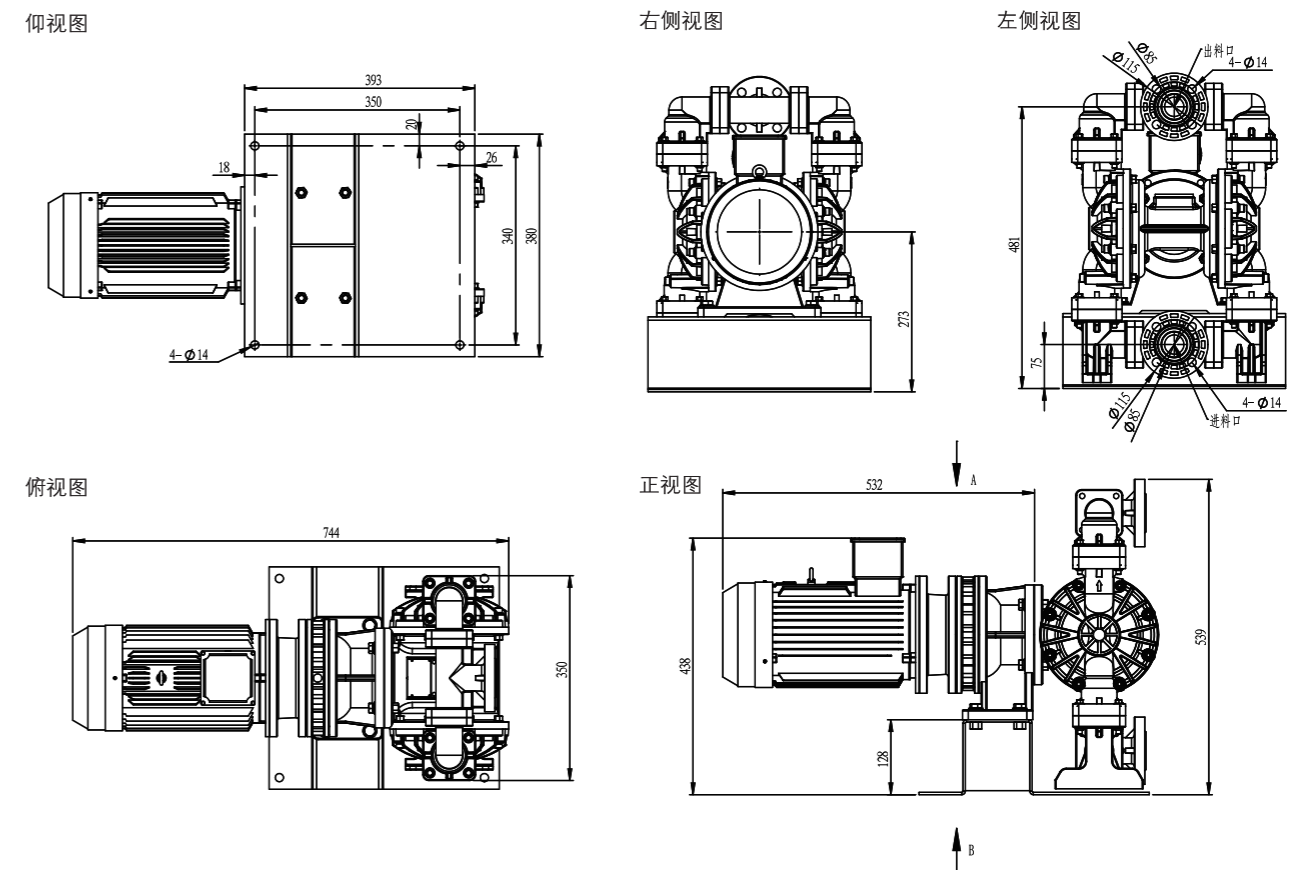
Specifications 规格参数



塑料PP聚丙烯

	BFD-25	BFDS-25
最大工作流量 Max.Flow	12.7gpm (48Lpm)	12.7gpm (48Lpm)
最大工作压力 Max.Working Pressure	58psi (0.4Mpa, 4bar)	102psi (0.7Mpa, 7bar)
流体进口尺寸 Fluid Inlet Size	1in.bsp (f)	1in.bsp (f)
流体出口尺寸 Fluid Outlet Size	1in.bsp (f)	1in.bsp (f)
最大虹吸高度(干抽或湿抽) Max.Suction height(dry suction or wet suction)	13ft.(4m)	13ft.(4m)
最大输送固体颗粒 Max.Permitted Grain	1/8in.(3.2mm)	1/8in.(3.2mm)
每往复流量 Every Reciprocating Flow	0.15gallon(0.57L)	0.15gallon(0.57L)
最大往复速度 Max.Reciprocating Speed	85cpm	85cpm
出口压力 Outlet Pressure	0.4Mpa	0.7Mpa
电机功率 Motor power	1.5kw	2.2kw
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF		

Installation dimensions 安装尺寸



BFD-40 Aluminum Alloy / Stainless Steel / Ductile Iron 铝合金/不锈钢/球铁

Specifications 规格参数

	BFD-40	BFDS-40
最大工作流量 Max.Flow	42.8gpm (162lpm)	42.8gpm (162lpm)
最大工作压力 Max.Working Pressure	58psi (0.4Mpa, 4bar)	102psi (0.7Mpa, 7bar)
流体进口尺寸 Fluid Inlet Size	1-1/2in.bsp (f)	1-1/2in.bsp (f)
流体出口尺寸 Fluid Outlet Size	1-1/2in.bsp (f)	1-1/2in.bsp (f)
最大虹吸高度(干抽或湿抽)		
Max.Suction height(dry suction or wet suction)	16.4ft.(5m)	16.4ft.(5m)
最大输送固体颗粒 Max.Permitted Grain	3/16in.(4.8mm)	3/16in.(4.8mm)
每往复流量 Every Reciprocating Flow	0.5gallon(1.9L)	0.5gallon(1.9L)
最大往复速度 Max.Reciprocating Speed	85cpm	85cpm
出口压力 Outlet Pressure	0.4Mpa	0.7Mpa
电机功率 Motor power	2.2kw	3kw
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF		
Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF		



不锈钢

BFD-40 Plastic PP Polypropylene / Fluoroplastic 塑料PP聚丙烯/氟塑料

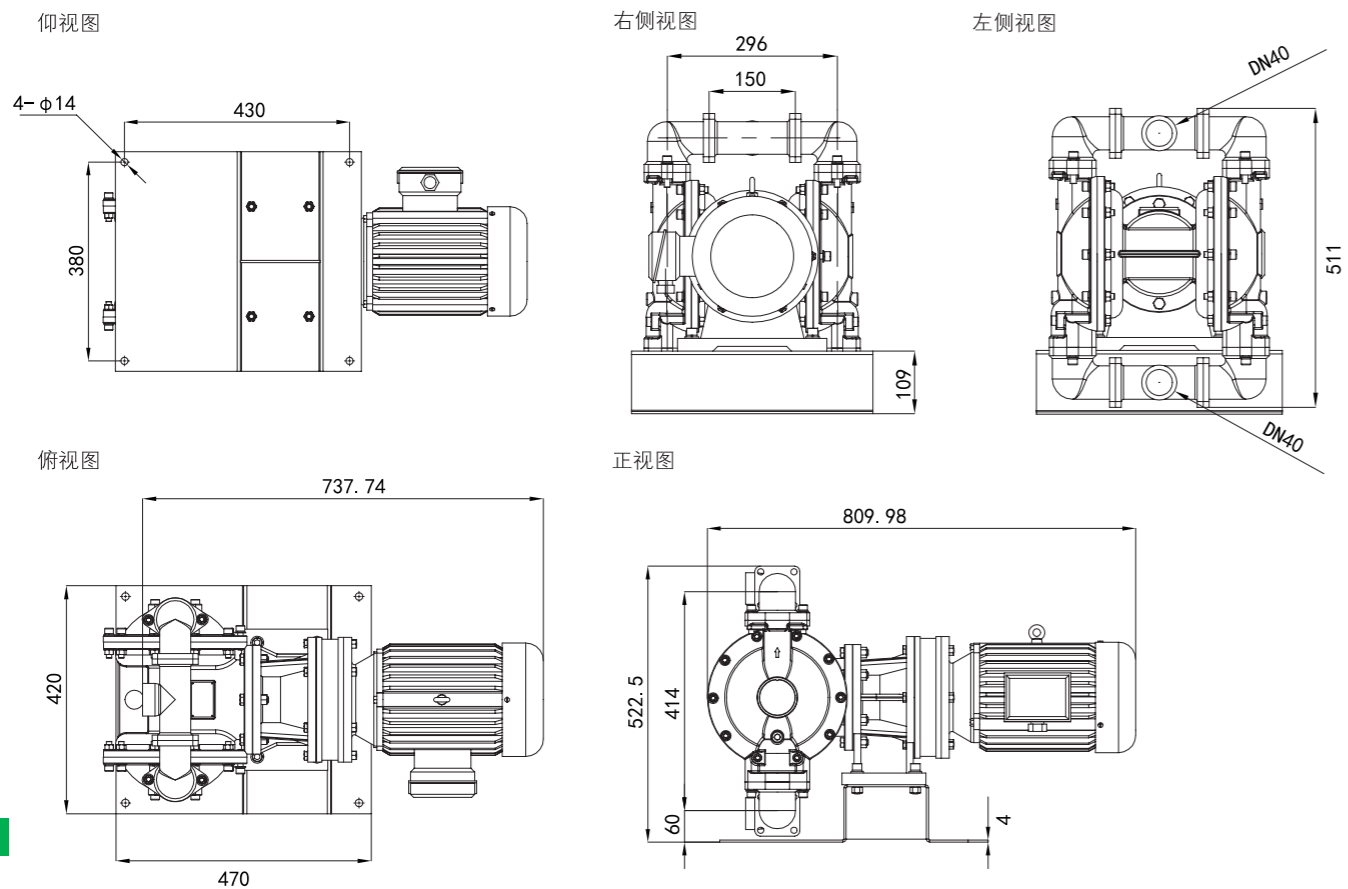
Specifications 规格参数

	BFD-40	BFDS-40
最大工作流量 Max.Flow	42.8gpm (162lpm)	42.8gpm (162lpm)
最大工作压力 Max.Working Pressure	58psi (0.4Mpa, 4bar)	102psi (0.7Mpa, 7bar)
流体进口尺寸 Fluid Inlet Size	1-1/2in.bsp (f)	1-1/2in.bsp (f)
流体出口尺寸 Fluid Outlet Size	1-1/2in.bsp (f)	1-1/2in.bsp (f)
最大虹吸高度(干抽或湿抽)		
Max.Suction height(dry suction or wet suction)	16.4ft.(5m)	16.4ft.(5m)
最大输送固体颗粒 Max.Permitted Grain	3/16in.(4.8mm)	3/16in.(4.8mm)
每往复流量 Every Reciprocating Flow	0.5gallon(1.9L)	0.5gallon(1.9L)
最大往复速度 Max.Reciprocating Speed	85cpm	85cpm
出口压力 Outlet Pressure	0.4Mpa	0.7Mpa
电机功率 Motor power	2.2kw	3kw
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF		
Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF		

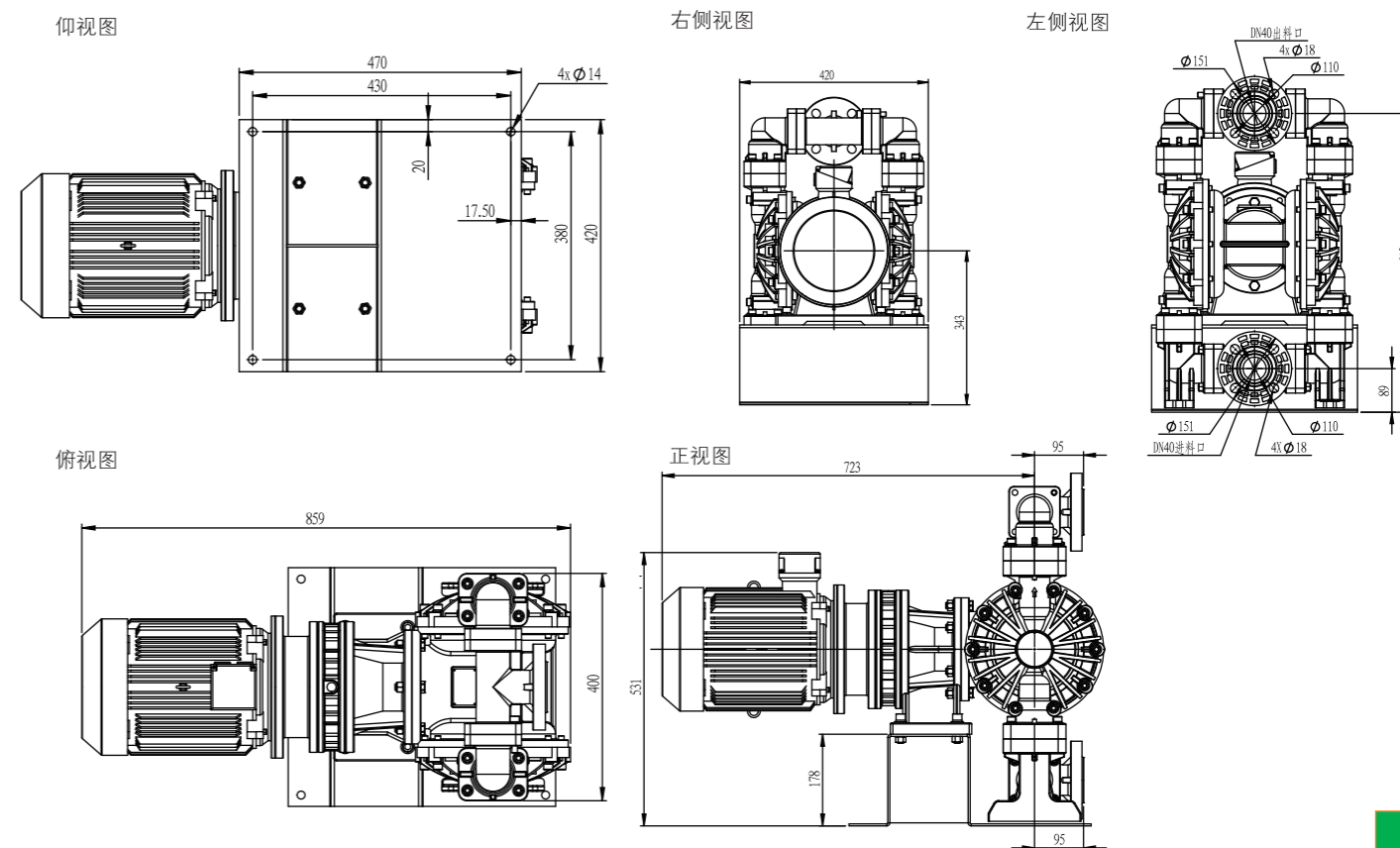


塑料PP聚丙烯

Installation dimensions 安装尺寸



Installation dimensions 安装尺寸



BFD-50 Aluminum Alloy / Stainless Steel / Ductile Iron 铝合金/不锈钢/球铁

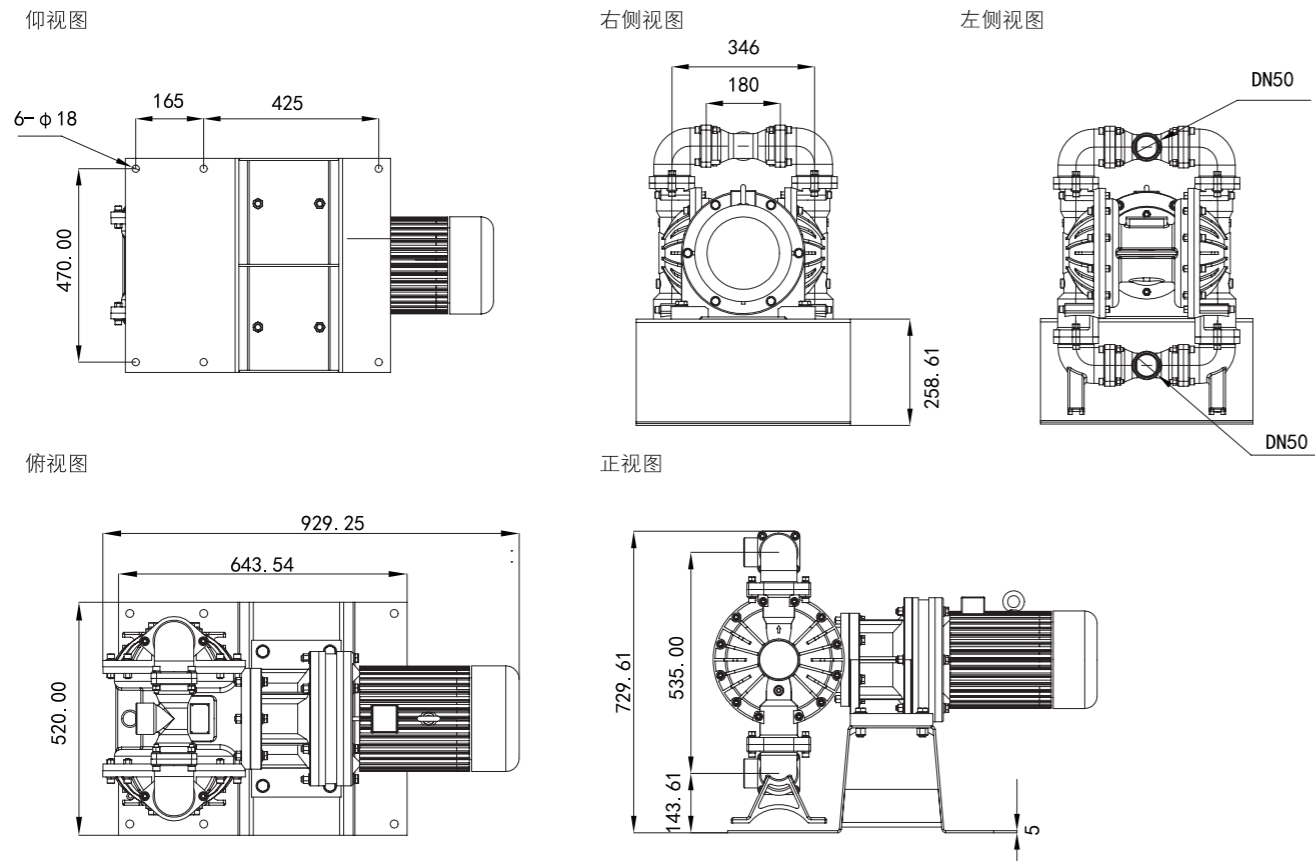
Specifications 规格参数



不锈钢

	BFD-50	BFDS-50
最大工作流量 Max.Flow	64.7gpm (245lpm)	64.7gpm (245lpm)
最大工作压力 Max.Working Pressure	58psi (0.4Mpa, 4bar)	102psi (0.7Mpa, 7bar)
流体进口尺寸 Fluid Inlet Size	2in.bsp (f)	2in.bsp (f)
流体出口尺寸 Fluid Outlet Size	2in.bsp (f)	2in.bsp (f)
最大虹吸高度(干抽或湿抽)		
Max.Suction height(dry suction or wet suction)	16.4ft.(5m)	16.4ft.(5m)
最大输送固体颗粒Max.Permitted Grain	1/4in.(6.4mm)	1/4in.(6.4mm)
每往复流量 Every Reciprocating Flow	1.03gallon(3.9L)	1.03gallon(3.9L)
最大往复速度 Max.Reciprocating Speed	63cpm	63cpm
出口压力 Outlet Pressure	0.4Mpa	0.7Mpa
电机功率 Motor power	3kw	4kw
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF		
Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF		

Installation dimensions 安装尺寸



BFD-50 Plastic PP Polypropylene / Fluoroplastic 塑料PP聚丙烯/氟塑料

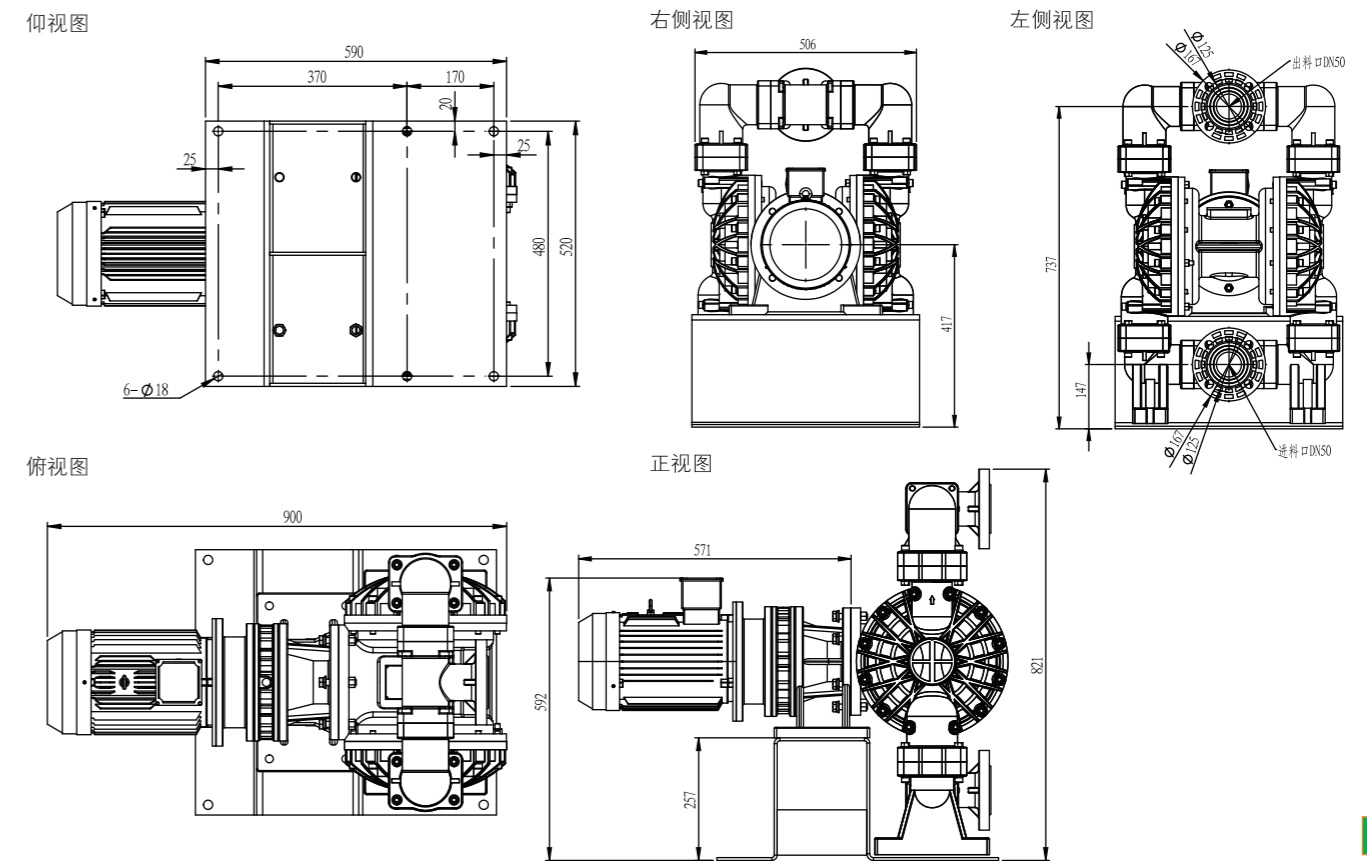
Specifications 规格参数



塑料PP聚丙烯

	BFD-50	BFDS-50
最大工作流量 Max.Flow	64.7gpm (245lpm)	64.7gpm (245lpm)
最大工作压力 Max.Working Pressure	58psi (0.4Mpa, 4bar)	102psi (0.7Mpa, 7bar)
流体进口尺寸 Fluid Inlet Size	2in.bsp (f)	2in.bsp (f)
流体出口尺寸 Fluid Outlet Size	2in.bsp (f)	2in.bsp (f)
最大虹吸高度(干抽或湿抽)		
Max.Suction height(dry suction or wet suction)	16.4ft.(5m)	16.4ft.(5m)
最大输送固体颗粒Max.Permitted Grain	1/4in.(6.4mm)	1/4in.(6.4mm)
每往复流量 Every Reciprocating Flow	1.03gallon(3.9L)	1.03gallon(3.9L)
最大往复速度 Max.Reciprocating Speed	63cpm	63cpm
出口压力 Outlet Pressure	0.4Mpa	0.7Mpa
电机功率 Motor power	3kw	4kw
泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF		
Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF		

Installation dimensions 安装尺寸



BFD-80 **BFD-80**
 Aluminum Alloy / Stainless Steel / Ductile Iron 铝合金/不锈钢/球铁



不锈钢

Specifications 规格参数

	BFD-80	BFDS-80
最大工作流量 Max.Flow	126.8gpm (480Lpm)	126.8gpm (480Lpm)
最大工作压力 Max.Working Pressure	58psi (0.4Mpa, 4bar)	102psi (0.7Mpa, 7bar)
流体进口尺寸 Fluid Inlet Size	3in.bsp (f)	3in.bsp (f)
流体出口尺寸 Fluid Outlet Size	3in.bsp (f)	3in.bsp (f)
最大虹吸高度(干抽或湿抽)		
Max.Suction height(dry suction or wet suction)	20ft.(6m)	20ft.(6m)
最大输送固体颗粒Max.Permitted Grain	3/8in.(9.4mm)	3/8in.(9.4mm)
每往复流量 Every Reciprocating Flow	2.0gallon(7.6L)	2.0gallon(7.6L)
最大往复速度 Max.Reciprocating Speed	63cpm	63cpm
出口压力 Outlet Pressure	0.4Mpa	0.7Mpa
电机功率 Motor power	4kw	5.5kw

泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF
 Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF

BFD-80 **BFD-80**
 Plastic PP Polypropylene / Fluoroplastic 塑料PP聚丙烯/氟塑料



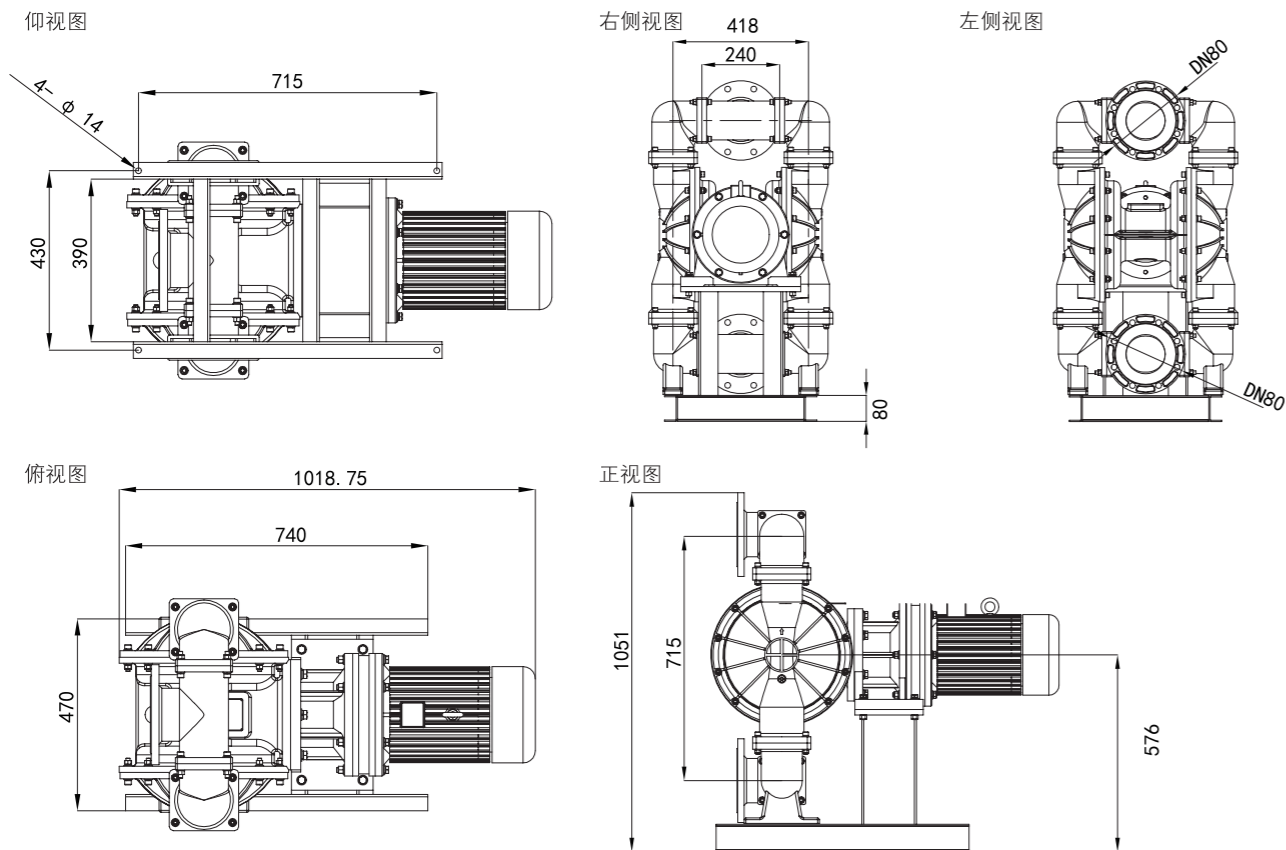
塑料PP聚丙烯

Specifications 规格参数

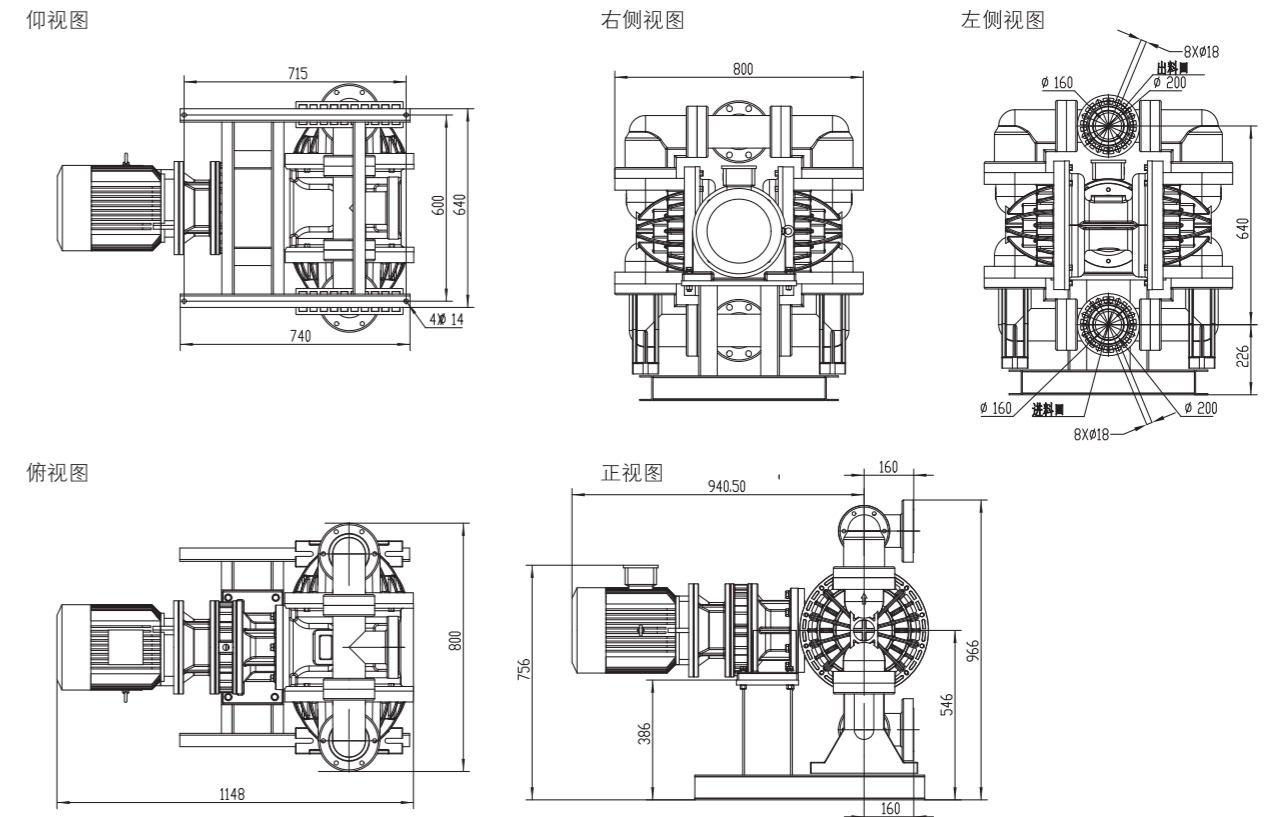
	BFD-80	BFDS-80
最大工作流量 Max.Flow	126.8gpm (480Lpm)	126.8gpm (480Lpm)
最大工作压力 Max.Working Pressure	58psi (0.4Mpa, 4bar)	102psi (0.7Mpa, 7bar)
流体进口尺寸 Fluid Inlet Size	3in.bsp (f)	3in.bsp (f)
流体出口尺寸 Fluid Outlet Size	3in.bsp (f)	3in.bsp (f)
最大虹吸高度(干抽或湿抽)		
Max.Suction height(dry suction or wet suction)	20ft.(6m)	20ft.(6m)
最大输送固体颗粒Max.Permitted Grain	3/8in.(9.4mm)	3/8in.(9.4mm)
每往复流量 Every Reciprocating Flow	2.0gallon(7.6L)	2.0gallon(7.6L)
最大往复速度 Max.Reciprocating Speed	63cpm	63cpm
出口压力 Outlet Pressure	0.4Mpa	0.7Mpa
电机功率 Motor power	4kw	5.5kw

泵主体结构材质: 铸钢 球铁 铝合金 PP 不锈钢 PVDF
 Pump body structure materials: Cast steel Nodular cast iron Aluminum alloy PP Stainless steel PVDF

Installation dimensions 安装尺寸



Installation dimensions 安装尺寸



THE DEVICE CAN ALARM WHEN THE DIAPHRAGM RUPTURES.

隔膜破裂可以报警啦

The diaphragm is a key component in a reciprocating diaphragm pump and is also one of the most vulnerable components. If the diaphragm is damaged, slurry can enter the drive fluid side of the diaphragm chamber, contaminating the hydraulic oil and potentially damaging the piston cylinder, valves, and other components, thus affecting normal production.

Therefore, designing an automatic alarm device for diaphragm rupture in diaphragm pumps is crucial for improving operational reliability and stability, and thus enhancing production levels.

隔膜破裂的危害 The dangers of diaphragm rupture



1. 物料进入腔体，对腔体造成污染，影响隔膜泵寿命

1. Material enters the cavity, causing contamination and shortening the life of the diaphragm pump.

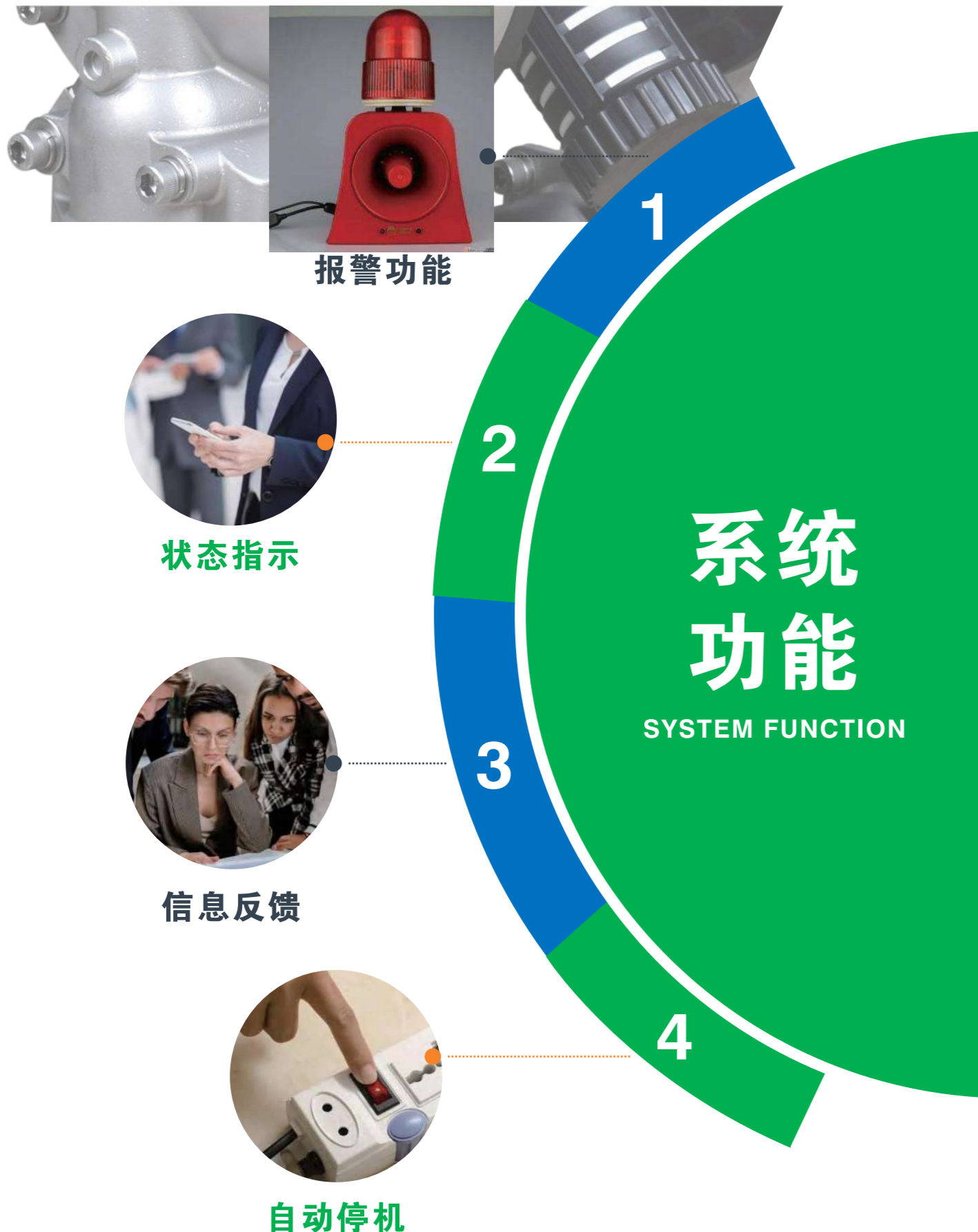


2. 隔膜破裂导致物料外溢事故，特别是一些隔膜泵输送的是有毒有害的流体

2. Diaphragm rupture leads to material spillage, especially when some diaphragm pumps transport toxic and harmful fluids



客户可根据工况配置流量变送器、PLC控制器、信号灯。
Customers can configure flow transmitters, PLC controllers, and signal lights according to working conditions.



DIAPHRAGM RUPTURE ALARM DEVICE

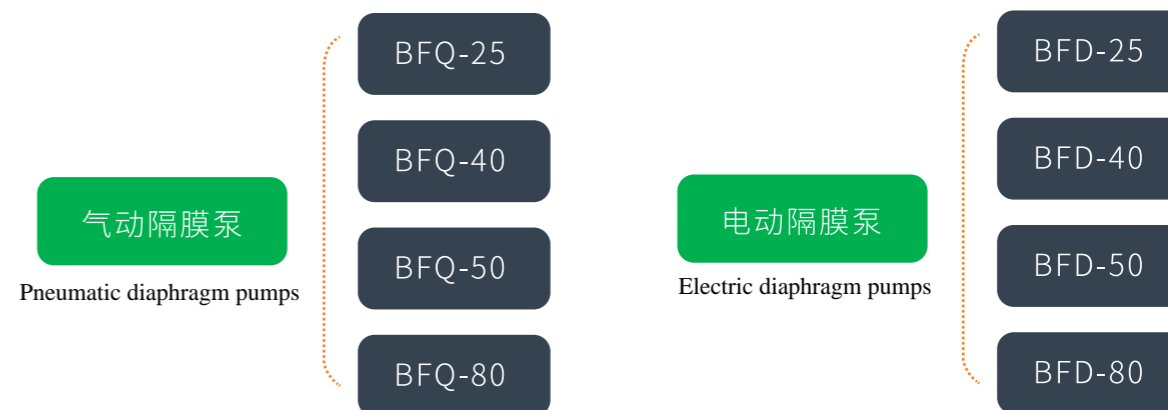
隔膜破裂报警装置

A diaphragm pump with a diaphragm rupture alarm has two diaphragms: the first diaphragm and the second diaphragm. The first diaphragm directly contacts the material, while the second diaphragm forms a sealed chamber with the first diaphragm.



During operation, when the first diaphragm ruptures, the material enters the sealed chamber. Simultaneously, the material passes through the right-angle compression fitting, stainless steel pipe, and tee compression fitting, ultimately exiting through the center outlet of the compression fitting. Once the material enters the material sensing cylinder, a sensor within the cylinder generates a signal that can be connected to a control component such as a PLC for feedback. Users can perform necessary logical operations based on this signal to generate an early warning, ensuring immediate notification of a diaphragm rupture. Furthermore, the sensor output signal can generate audible and visual alarms, automatically shutting down the pump, and other functions.

适配型号 Compatible models



CLEANING



MAINTENANCE INSTRUCTIONS

维护说明

When repairing a diaphragm rupture, the alarm spacer, steel pipe, ferrule, and alarm float must be disassembled and cleaned to ensure there are no blockages within the pipes. After all components have been cleaned and dried, replace the diaphragm and reassemble. Failure to do so may affect subsequent alarm functionality.

The alarm diaphragm pump sensor requires no special maintenance and can be used normally. Ensure that the wiring is not damaged during operation. If any exposed wires are found, please report the problem immediately.

