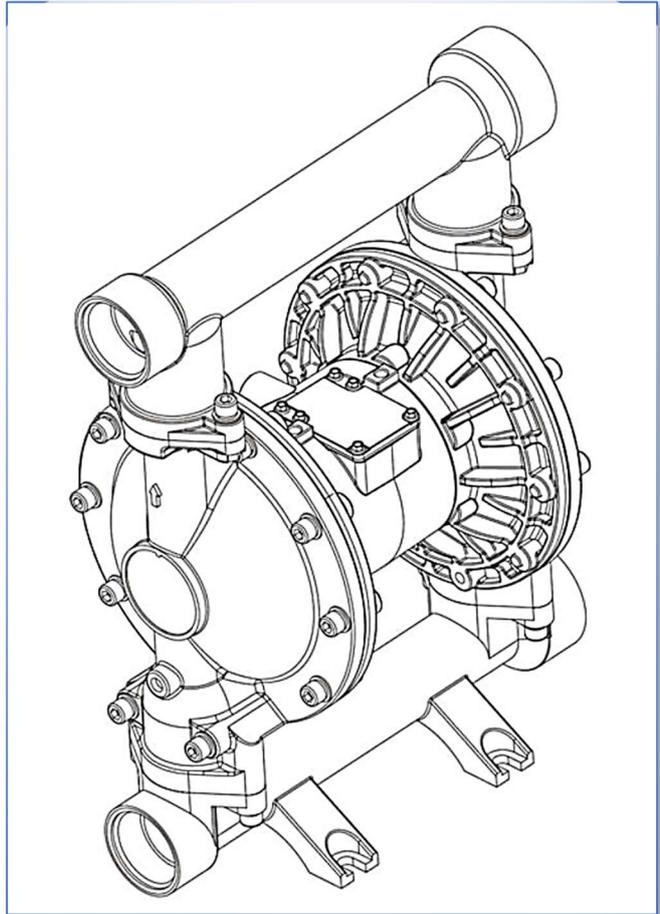




supply more than quality pump.....

QBY

AIR
OPERATED
DOUBLE
DIAPHRAGM
PUMP
SUPPLY
RANGE



Some unusual models are not listed.
Detailed pump catalogs are available for these models.

SUPERIORITY

Fluid Compatibility

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

Reasonable Sealed 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.

Long-effect Value Rod Design

The stainless valve rod has a longer working lift 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 compatibility and reliable sealing which can improve efficiency, long working life and suction lift.

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; stainless bolt can resist corrosion and provide reasonable position which is convenient to reassemble.

Precisely artLocated Parts

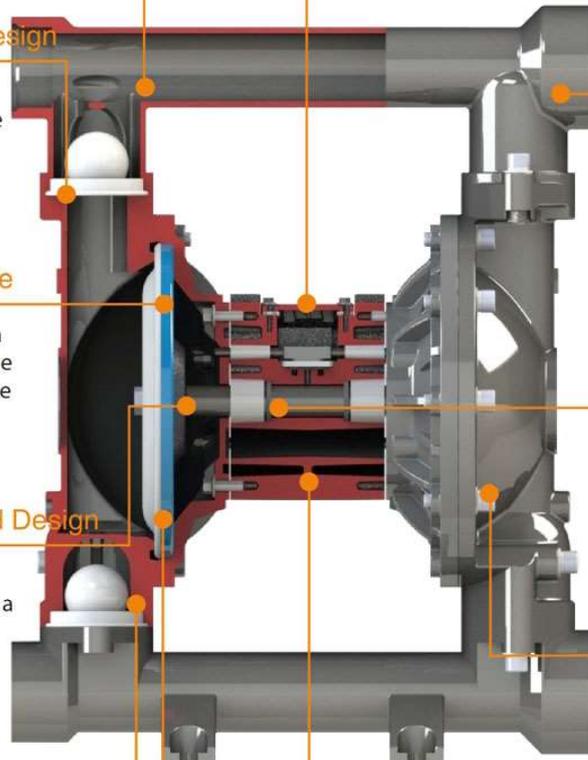
Wear-resisting end step bearing ensures the correct position of valve rod and is easy to replace.

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 outlet uses one common port that can prevent internal vapor form corroded by sealed element of air motor and it is good to idle function during the operation of loading or unloading storage tank.



SCOPE OF APPLICATION

- ✓ Marine time: sewage, sea water, diesel oil drainage and transportation;
- ✓ Electricity: waste water, strong acid and strong alkaline drainage and transportation;
- ✓ Automobile: sealant, adhesive, plating liquor, solvent, paint supply and transportation;
- ✓ Chemical industry production: cleaning agent, binder, printing ink, cleaning/polishing, paint/dye;
- ✓ Mine: sewage, turbid water and thin slurry drainage
- ✓ Medicine: FDA material supply and transportation.

WORKING CONDITION

- Environment temperature: 5 to 65 C degree
- Liquid temperature: **-20C to 150 C degree**
- Liquid viscosity: **to 10000cps**
- Pump flow and pressure can be adjusted by the supply air, **from 0.1 to 0.8Mpa.**
- No shaft seal, no rotating parts, suitable for **poisonous and corrosive** liquid.
- It can work without electricity, suitable for **inflammable and explosive** liquid.
- Spacious through-pass performance, suitable for the **liquid with slurry and impurity.**
- Can operate while **immersed** into the medium.
- Pump can work with **idle operation.**



SPECIFICATION

	QBY-10 & QBY-15	QBY-20 & QBY-25	QBY-32 & QBY-40	QBY-50 & QBY-65	QBY-80 & QBY-100	QBY-125
Max. flow	5.8gmp(22lpm)	15gmp(57lpm)	40gmp(151lpm)	100gmp(378.5lpm)	150gmp(568lpm)	275gmp(1041lpm)
Max. working pressure	100psi(7bar)	100psi(7bar)	120psi(8.4bar)	120psi(8.4bar)	120psi(8.4bar)	120psi(8.4bar)
Fluid inlet/outlet size	3/8in. bsp(f) & 1/2in. bsp(f)	3/4in. bsp(f) & 1in. bsp(f)	1-1/4in. bsp(f) & 1-1/2in. bsp(f)	2in. bsp(f) & 2-1/2in. bsp(f)	3in. bsp(f) & 4in. bsp(f)	5in. bsp(f)
Air inlet size	1/4in. bsp(f)	1/4in. bsp(f)	1/2in. bsp(f)	1/2in. bsp(f)	1/2in. bsp(f)	3/4in. bsp(f)
Max suction height	13ft. (4m)	15ft. (4.5m)	18ft. (5.48m)	18ft. (5.48m)	18ft. (5.48m)	25ft. (7.6m)
Max permitted Grain	0.06in. (1.5mm)	2/32in. (2.5mm)	1/8in. (3.2mm)	3/16in. (3.2mm)	1/4in. (6.4mm)	3/8in. (9.4mm)
Max air consumption	6.3scfm	12.7scfm	23.66scfm	32scfm	45scfm	82.6scfm
Every stroke flow	0.006 gal. (23cc)	0.04 gal. (0.15L)	0.15 gal. (0.57L)	0.5 gal. (1.9L)	1.03 gal. (3.9L)	2.0 gal. (7.6L)
Max reciprocating speed	372 cpm	400 cpm	276 cpm	276 cpm	145 cpm	135 cpm

The pump liquid inlet/outlet connection and air inlet connection are all in **BSP standard screw.**

PUMP MATERIAL

Part name	Standard	Optional
Pump body	Aluminum alloy; Or cast steel; Or SS304; Or PP; Or PVDF.	Nodular cast iron, PTFE, SS316, SS316L
Pump diaphragm position 1. (Contacted with the liquid)	PTFE	Santoprene, gather rubber and polyether
Pump diaphragm position 2. (Opposite with the liquid)	Santoprene	PTFE, gather rubber and polyether
Ball valve & valve seat (For common liquid)	Santoprene	PTFE, stainless steel and polyether
Ball valve & valve seat (For high corrosive liquid)	PTFE	Santoprene, stainless steel and polyether

PP is short for Polypropylene or engineering plastic; PVDF is short for Polyvinylidene Fluoride or Fluoride plastic.

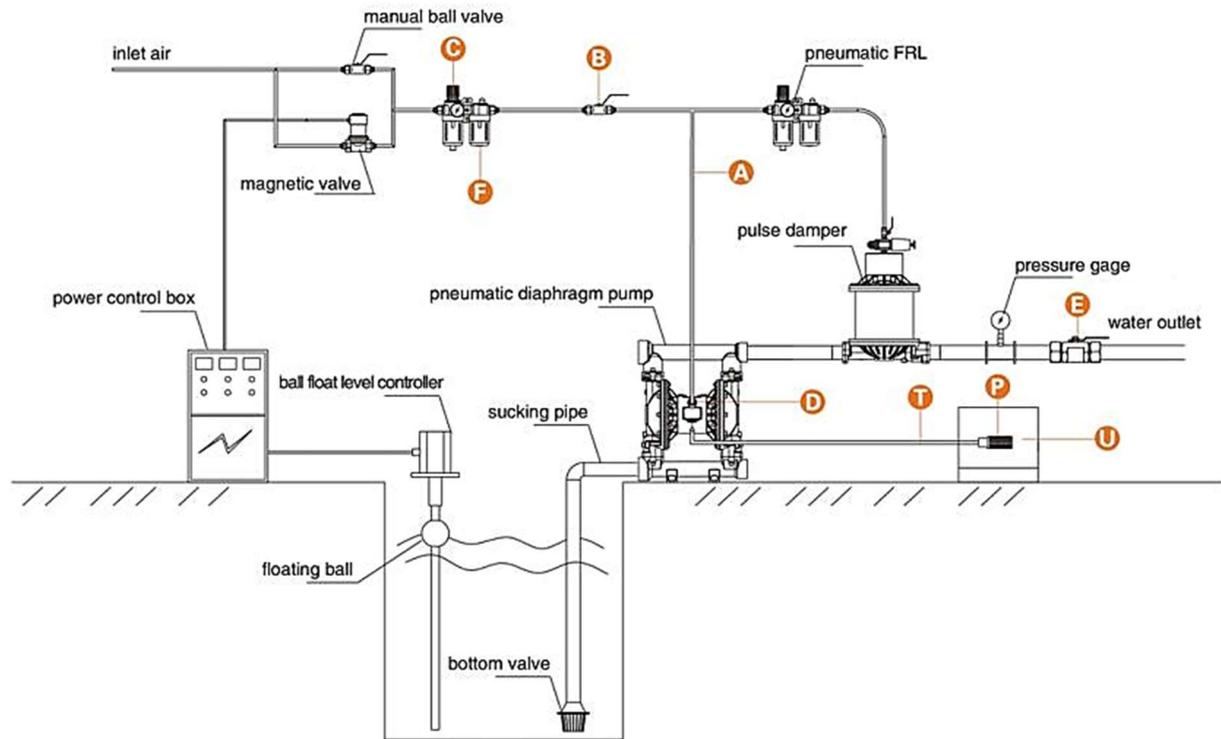


There are **TWO SETS** of diaphragms for each pump, and **TWO LAYERS** for each set of diaphragms. So totally there are **FOUR PCS OF DIAPHRAGMS** for each pump. The inside layer of diaphragm is in **Santoprene**, and the outside layer of diaphragm is in **PTFE**, which is contacted with the liquid. When for the high corrosive liquid, the ball valve and valve seat material is in **PTFE**, otherwise they are in **Santoprene**.

Santoprene diaphragm and PTFE diaphragm



PUMP SYSTEM DRAWING



- A- Gas pipe line
- B- Ball valve
- C- Air pressure regulator
- D- Inlet pipe quick connection
- E- Leak type ball valve
- F- Pneumatic FRL
- P- Muffer
- T- Exhaust pipe
- U- Container for Exhaust

Contact  freely,

If you are interested in any model of the QBY AODD pump.

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As we are constantly endeavoring to improve the performance of our equipment,
The company reserves the right to make alteration from time to time and equipment will maybe differ from that detailed in this brochure.