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QBY型气动隔膜泵 QBY GAS-DRIVING DIAPHRAGM PUMPS

产品说明书 Product specification

上海凯程制泵有限公司
SHANGHAI KAICHENG PUMP CO.,LTD.

QBY型气动隔膜泵 QBY type gas-driving diaphragm pump



概述 Summarize

- QBY气动隔膜泵既能抽送流动的液体，又能输送一些不易流动的介质，具有自吸泵、潜水泵、屏蔽泵、杂质泵等输送机械的许多优点。

- QBY series not only pump liquid, but also transport any medium which difficult in flowing ,they have many advantage of selfpriming pump, submersible pump canned pump, and impurity pump.

产品特点 Characteristics

- 不需灌引水，吸程高达7m，扬程达70m，出口压力 $\geq 6\text{kgf/cm}^2$ ；

- 流动宽敞，通过性能好，充许最大颗粒直径达10mm。输送泥浆、杂质时，对泵磨损甚微。

- 扬程、流量可以通过气阀开度实现无级调节（气泵调节1-7 kgf/cm^2 之间）；

- 该泵无旋转部件，没有轴封，隔膜将抽转的介质与泵的运动部件、工作介质完全隔开，所输送的介质不会像外汇漏。所以抽送有毒、易挥发或腐蚀性介质时，不会造成环境污染和危害人身安全；

- 不必用电，在易燃易爆场所使用安全可靠；

- 可以浸没在介质中工作；

- 使用方面、工作可靠、开停只需简单的打开和关闭气体阀门，即使由于意外情况长时间无介质运行或突然死机，泵也不会因此而损坏，一旦超负荷，泵会自动停机，具有自我保护性能，当负荷恢复正常后，又能自动启动运行。

- 根据介质的不同，有铸铁、不锈钢、四氟、铝合金，工程塑料等材质隔膜泵。

- 结构简单、易损件少，安装、维修方便，泵输送的介质不会接触到配气阀，联杆等运动部件，不像其它类型的泵因转子、活塞、齿轮、叶片等部件的磨损而性能下降；

- 可输送粘的液体（粘度在1万厘泊以下）；

- 本泵无需用油润滑，即使空转，对泵也无任何影响，这是该泵的一大特点。

- Dont need irrigate and lead water, the pump head can reach to 70mm, and outlet pressure 6kgf/cm².

- flowing roomily and passing performance is good, that can pass the solid grain whose max diameter is 10mm, it wont result in many wear and tear when passing slurry and impurity.

- Head and capacity realizd nonpolar adjust by air-valve opening degree (air pressure-adjusting is at 1-7kgf/cm²).

- This pump hasnt rotary parts and shaft seal, the septclm separate the medium which are pumped and the pumps stir parts, so that the passed medium wont be leaked, therefore, it wont result in environmental pollution and bad to people, when transport poisonous and corrosive medium. It is safe and reliable on the combustible and explosive occasions.

- Can operate while it is immersed in water.

- Easily to use, operating reliably, only need open and turn off the air-valve that make it start and stop, even if long-time on medium running or stop suddenly because of accidental status, pump still be good, Besides, it will stop by itself when it is over-loading, and it can keep safe by itself, and go on running when load come back to be normal.

- According to different medium, there are several materials for diaphragm pump, like castiron, stainless steel, PTFE, Aluminium and engineering plastic.

- Simple structure, less parts which are easy to be destroyed, be easily to install, and convenient to maintain. The passing medium wont come into contact with equiped air-valve and other stir parts, which dont like other pumps make for performances descend which caused by wear and tear of rotor, plunger, gear wheel, vane and other parts.

- Can passing sticky liquid.

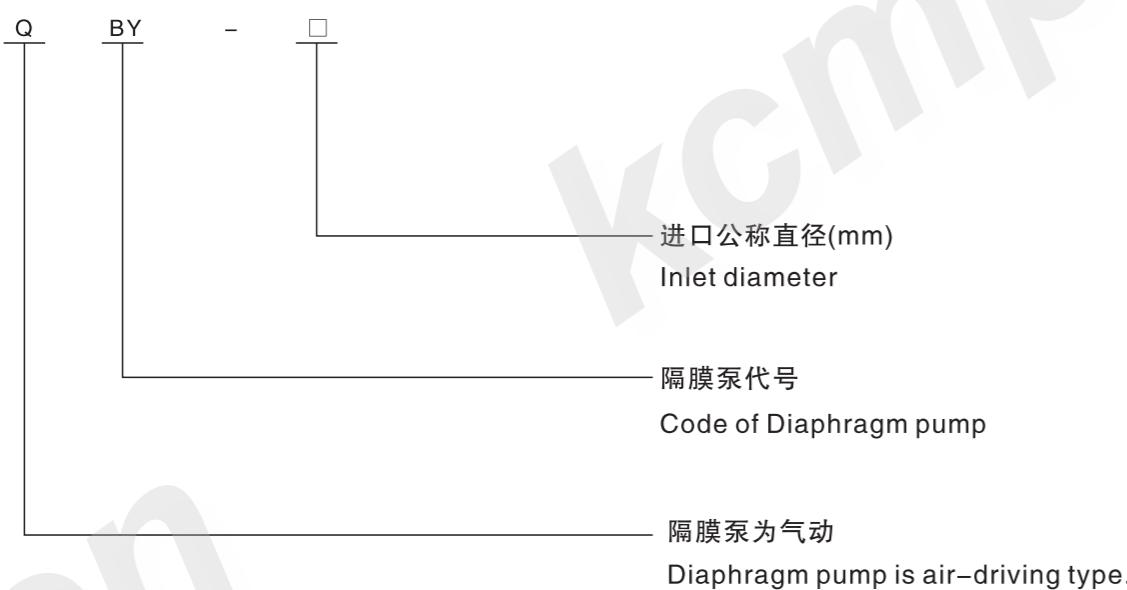
- It neednt be lubricated with Oil, it wont influence the pump, even if empty running, that's one of the marked features.

- You will find that connecting air goes into equipping air valve from E in drawing show, that makes film run to right, so the suction of workaround A inake medium into the pump from inlet C, burst through 2 into workaround A, ball valve 4 will be closed down, because of indraft, the medium in workaround 13 will be extruded, burst through ball valve 3, and outflow from outlet D, meantime, make ball valve, closed down, avoid reflux, like this, making medium inducted from inlet C, and expeled, from outlet D.

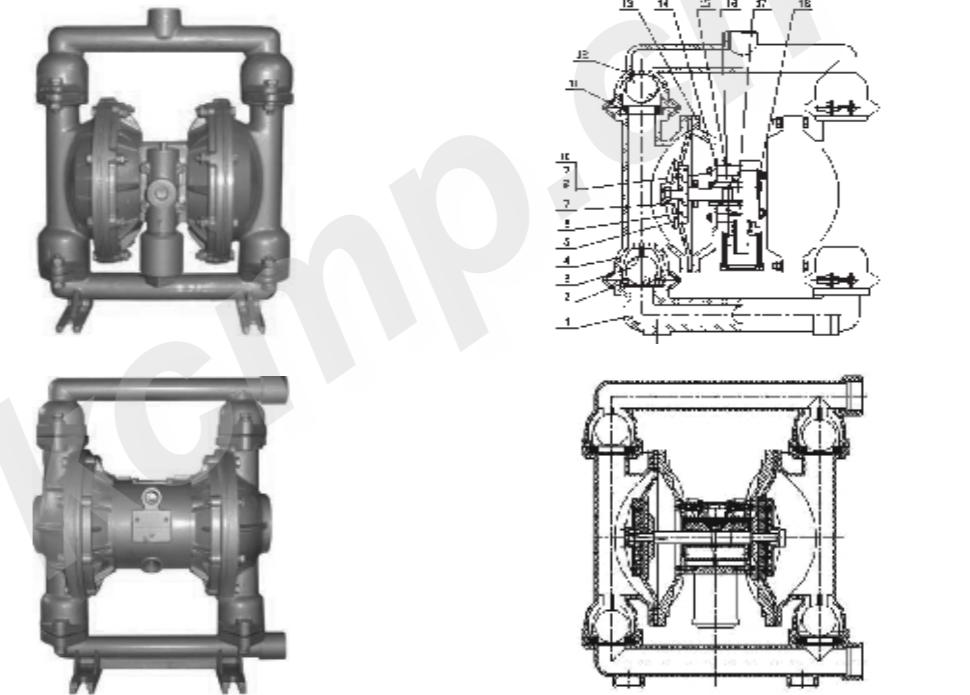
► 主要用途 Applications

- 泵吸花生酱、泡菜、土豆泥、红肠、巧克力、啤酒花、糖浆等；
- 泵吸油漆、颜料、胶水、粘合剂等；
- 泵吸各种瓦、瓷、砖器及陶器釉浆等；
- 泵吸各种磨料、腐蚀剂、清洗油垢等；
- 泵吸各种剧毒、易燃、易挥发液体等；
- 泵吸各种污水、水泥灌浆及灰浆等；
- 泵吸各种强酸、强碱、强腐蚀液体等；
- 作为各种固液分离设备的前级送压装置。
- Pump peanut butter, pickled vegetable, mashed potatoes, banger, chocolate, beer and so on.
- Pump oil paint, dye, gluewater, bond and so on.
- Pump kinds of tile, porcelain, and keramic glair.
- Pump kinds of grinding material, cauterant, and clean out oil dirt.
- Pump diversified liquid with poison and easy to burn and volat.
- Pump sewage, cement grouting and ashes.
- Pump diversified acid, alkali and liquid with corrosive material.
- The sending pressure equipment that separate diversified solid and liquid.

► 型号意义 Designation Meaning

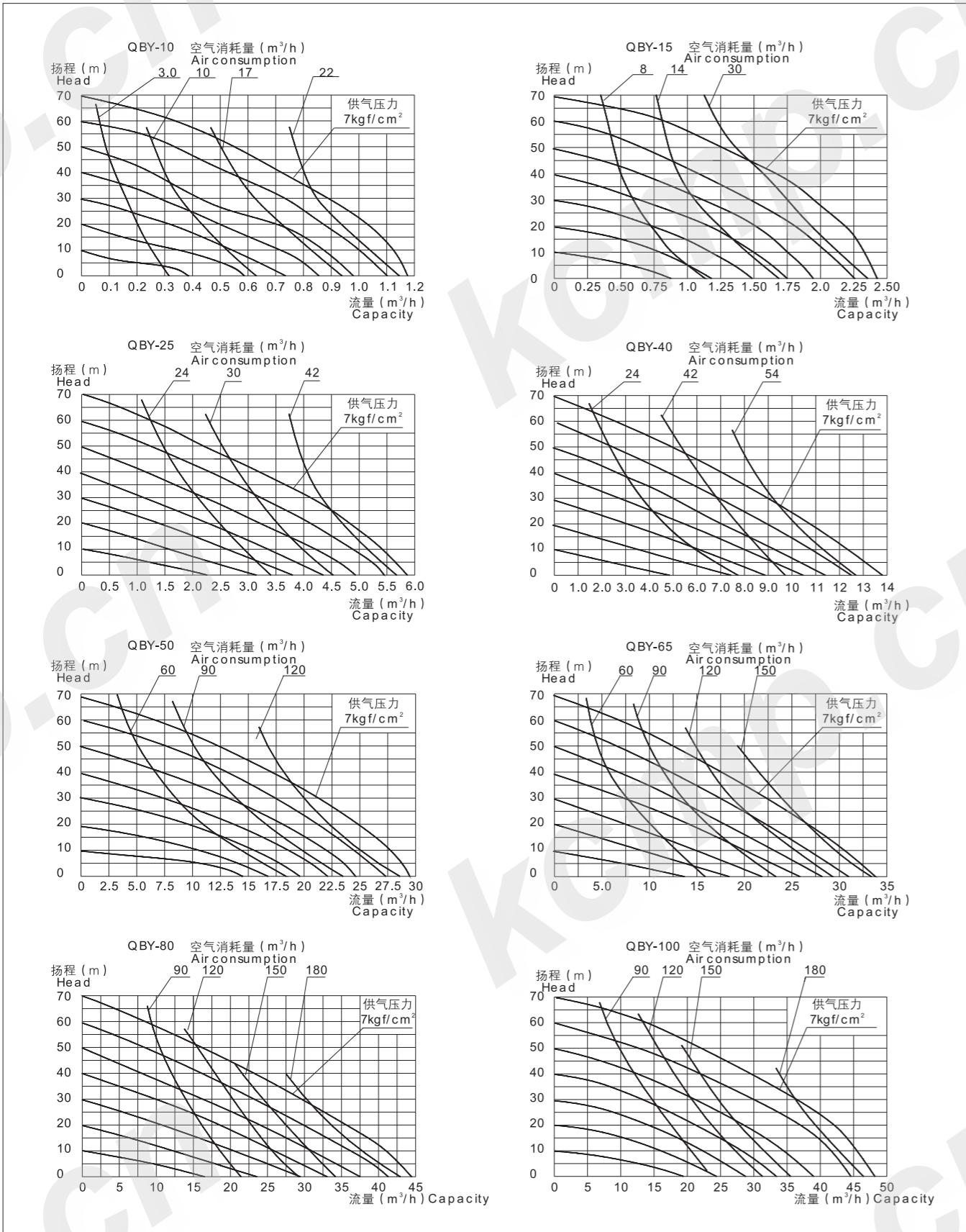


► 主要零件材料 Major parts material form



| QBY系列气动隔膜泵 QBY Air Operated Diaphragm Pump | | | | | | | | |
|--|----------------------------|--------------|------------------------|-----------------------|--------------------|---------------------------|--|--|
| No | 零件名称 Accessory Name | 数量 Amount | 材料 Materia | | | | | |
| 1 | 底座 Bottom | 1 | 不锈钢 Stainless steel | 铝合金 Aluminum alloy | 铸铁 Cast iron | 塑料 Engineering plastic | | |
| 2 | 球座 Tee | 4 | 氯丁 Neoprene | 丁晴 Buna-N | 四氟 Teflon | 氟橡胶 Viton | | |
| 3 | 球芯 Ball | 4 | 氯丁 Neoprene | 丁晴 Buna-N | 四氟 Teflon | 陶瓷 Argil | | |
| 4 | 立柱 Stand column | 2 | 不锈钢 Stainless steel | 铝合金 Aluminum alloy | 铸铁 Cast iron | 塑料 Engineering plastic | | |
| 5 | 隔膜外压板 Outside platen | 2 | Q235-A | | | | | |
| 6 | 隔膜 Diaphragm | 2 | 氯丁 Neoprene | 丁晴 Buna-N | 四氟 Teflon | 氟橡胶 Viton | | |
| 7 | 隔膜内压板 Endoplaten | 2 | Q235-A | | | | | |
| 8 | 螺母 Nut | 3 | Q235-A | | | | | |
| 9 | 垫圈 Gasket | 6 | Q235-A | | | | | |
| 10 | 螺栓 Stud | 3 | Q235-A | | | | | |
| 11 | O型圈 O Ring | 4 | 丁晴 Buna-N | | | | | |
| 12 | 上盖 Top | 1 | 不锈钢 Stainless steel | 铝合金 Aluminum alloy | 铸铁 Cast iron | 塑料 Engineering plastic | | |
| 13 | 隔膜排 Clapboard | 2 | 铸铁 Cast iron | | 铝合金 Aluminum alloy | | | |
| 14 | 中间体垫 Block Gasket | 2 | 丁晴 Buna-N | | | | | |
| 15 | 中间体组件 Center pump body | 1 | 铸铁 Cast iron | | 铝合金 Aluminum alloy | | | |
| 16 | 消声器 Muffler | 1 | ABS | | | | | |
| 17 | 中间轴 Shaft | 1 | 不锈钢 Stainless steel | | | | | |
| 18 | 配气阀 Air distributive valve | 1 | 黄铜 Brass | | | | | |

QBY性能曲线图 QBY Performance Curve Sheet

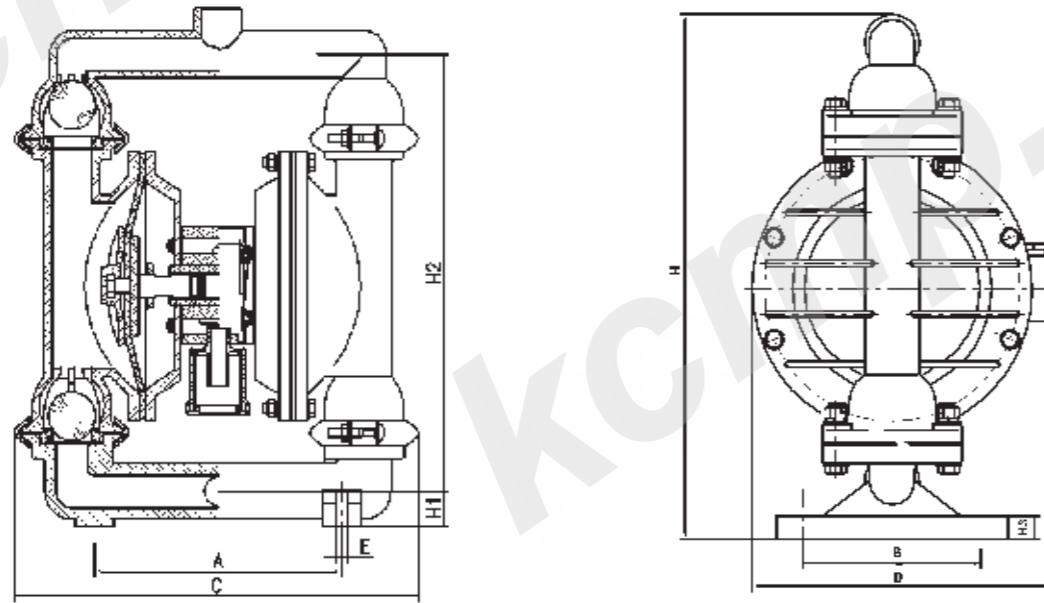


性能参数表 Performance Data Table

| 型号 Type | 流量 Capacity m³/h | 扬程 head (m) | 出口压力 Outlet pressure kgf/cm² | 吸程 (m) Prime distance | 最大允许 颗粒直径 (mm) Max solids diameter | 最大供气压 力(kgf/cm²) Max air pressure | 最大空 气消 耗量 (m³/min) Max air Consumption | 材料 Material | | | | 整机 质量 (kg) Total pump |
|------------|------------------------|-------------------|---------------------------------------|--------------------------------|--|--|---|---------------|------------------------|-----------------|----------------------------------|--------------------------------|
| | | | | | | | | 铝 Aluminum | 不锈钢 Stainless Steel | 铸铁 Cast iron | 增强聚丙烯 Heavy Poly propylene | |
| QBY-10 | 0~0.8 | 0~50 | 6 | 5 | 1 | 7 | 0.3 | ★ | ★ | ★ | ★ | 14 |
| QBY-15 | 0~1 | 0~50 | 6 | 5 | 1 | 7 | 0.3 | ★ | ★ | ★ | ★ | 14 |
| QBY-25 | 0~2.4 | 0~50 | 6 | 7 | 2.5 | 7 | 0.6 | ★ | ★ | ★ | ★ | 34 |
| QBY-40 | 0~8 | 0~50 | 6 | 7 | 4.5 | 7 | 0.6 | ★ | ★ | ★ | ★ | 40 |
| QBY-50 | 0~12 | 0~50 | 6 | 7 | 8 | 7 | 0.9 | ★ | ★ | ★ | ★ | 80 |
| QBY-65 | 0~16 | 0~50 | 6 | 7 | 8 | 7 | 0.9 | ★ | ★ | ★ | / | 95 |
| QBY-80 | 0~24 | 0~50 | 6 | 7 | 10 | 7 | 1.5 | ★ | ★ | ★ | / | 120 |
| QBY-100 | 0~30 | 0~50 | 6 | 7 | 10 | 7 | 1.5 | ★ | ★ | ★ | / | 130 |

注: ★—有 无/-

主要外形尺寸 Tables Of Setting Data



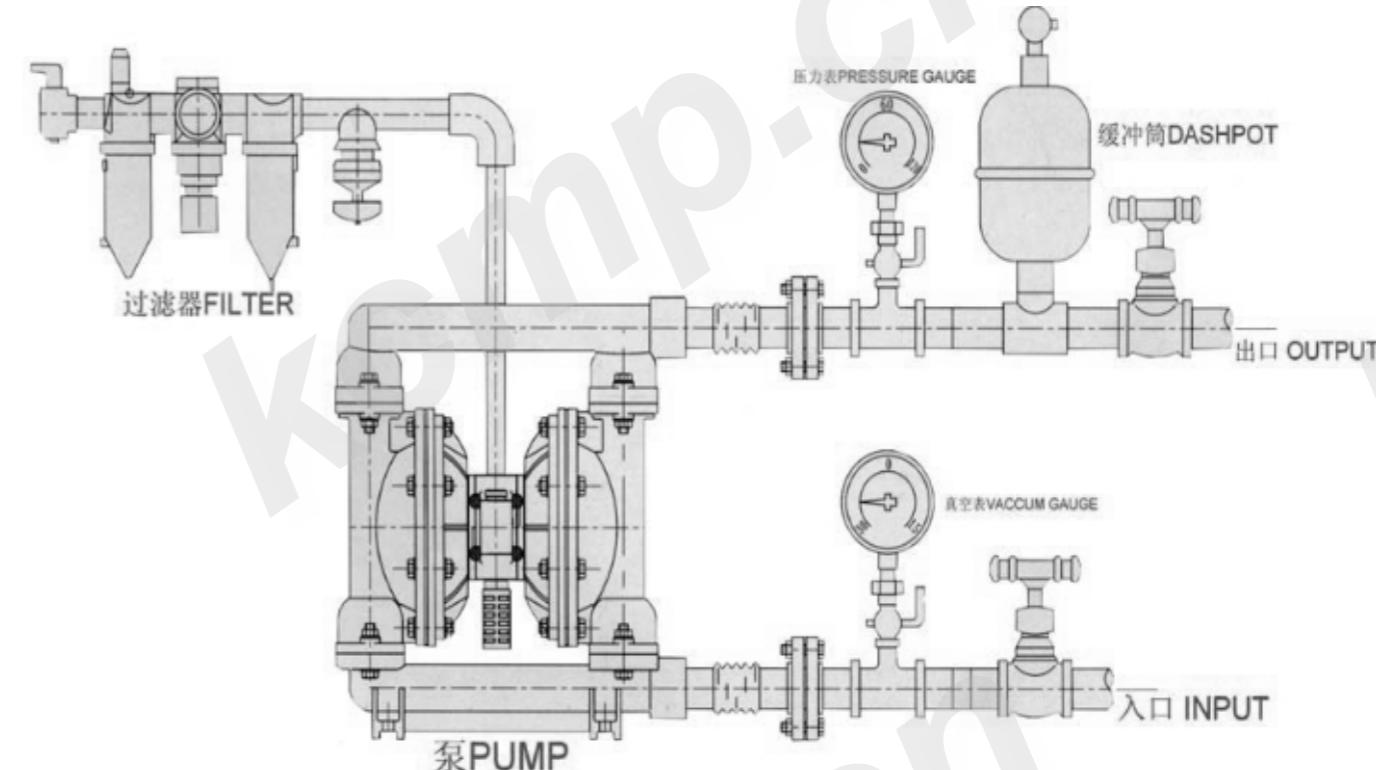
主要外形尺寸 Tables Of Setting Data

| 型号 Type | A | B | C | D | E | H1 | H2 | H3 | H | 螺纹 Threaded | 法兰 Flanged ANSI | DIN |
|------------|-----|-----|-----|-----|----|-----|-----|----|-----|----------------|-----------------------|-----|
| | | | | | | | | | | | NPT/BSPT | |
| | | | | | | | | | | | | |
| QBY-10 | 120 | 55 | 205 | 140 | 10 | 27 | 201 | 10 | 255 | 3/8" | - | - |
| QBY-15 | 120 | 55 | 205 | 140 | 10 | 27 | 201 | 10 | 255 | 1/2" | - | - |
| QBY-25 | 220 | 125 | 330 | 230 | 14 | 43 | 414 | 18 | 500 | 1" | - | - |
| QBY-40 | 215 | 125 | 330 | 230 | 14 | 65 | 370 | 18 | 500 | 1 1/2" | • | • |
| QBY-50 | 310 | 230 | 460 | 340 | 14 | 70 | 560 | 27 | 700 | 2" | • | • |
| QBY-65 | 290 | 230 | 460 | 340 | 14 | 75 | 550 | 50 | 700 | - | • | • |
| QBY-80 | 420 | 220 | 560 | 450 | 18 | 100 | 645 | 50 | 845 | - | • | • |
| QBY-100 | 420 | 220 | 560 | 450 | 18 | 100 | 665 | 50 | 865 | - | • | • |

法兰端尺寸根据相应的标准设计，按设计给定，也可以根据客户的设计生产。

The dimension for the flange is designed in accordance with the relevant standard, and it can be specified as the customers' requirement.

系统连接示意图 System Connection Schematic Diagram



备注：在使用QBY气动隔膜泵时，要安装空气过滤器，以滤去压缩空气中的水分，并在泵的出口安装压力表，避免因压力过高损害泵，在泵不工作时应及时清洗泵，避免因凝固损坏泵。

Note: When the air operated diaphragm pump works, install the air filter to each the moisture from the compressed air, and install the manometer at the outlet of pump, so to avoid damaging as too high pressure, when the pump doesn't need work, please clean it in time to prevent from concreting.

另一功能：将泵浸在液体中，可替代潜水泵使用。

Another function: diving the pump into water and it can be used as submersible pump.



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responsible to the environment

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向环境负责

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