



YRO

Air Operated Diaphragm Pump



Hong Kong Yaness Industrial Limited

亚内斯气动隔膜泵选型指南

Yaness pumps model selection guide

YRO	25	B	PP	PP	TF	TF
亚内斯 YANESS	尺寸 Dimension	连接方式 Connections	泵体 Pump Body	球座 Valve Seat	阀球 Valve Ball	膜片 Diaphragm
进出口尺寸 Pump inlet/outlet size 06=1/4in(8 caliber 口径) 10=3/8in(10 caliber 口径) 15=1/2in(15 caliber 口径) 20=3/4in(20 caliber 口径) 25=1in(25 caliber 口径) 40=1.5in(40 caliber 口径) 50=2in(50 caliber 口径) 80=3in(80 caliber 口径) 100=4in(100 caliber 口径)	连接方式 Connections B= 管螺纹 (BSPP) N= 锥螺纹 (NPT) F= 法兰 (Flange)	材质 Material AC= 乙缩醛 (Acetal) PP= 聚丙烯 (Poly) KY= 聚偏氟乙烯 (PVDF) SS=304 不锈钢 (304SST) LL=316 不锈钢 (316SST) CI=铸铁 (Cast iron) AL=铝合金(Aluminum)	材质 Material AC= 乙缩醛 (Acetal) PP= 聚丙烯 (Poly) AL= 铝合金 (Aluminum) SS=304 不锈钢 (304SST) LL=316 不锈钢 (316SST) HY= 聚醚橡胶 (Hytrell) SP= 三道橡胶 (Santoprene) KY= 聚偏氟乙烯 (PVDF) TF= 特氟龙 (PTFE) BN= 丁腈橡胶 (Buna N) VT= 氟橡胶 (Viton) GE=Geolast	材质 Material AC= 乙缩醛 (Acetal) PP= 聚丙烯 (Poly) AL= 铝合金 (Aluminum) SS=304 不锈钢 (304SST) LL=316 不锈钢 (316SST) HY= 聚醚橡胶 (Hytrell) SP= 三道橡胶 (Santoprene) TF= 特氟龙 (PTFE) BN= 丁腈橡胶 (Buna N) VT= 氟橡胶 (Viton) GE=Geolast	材质 Material TF= 特氟龙 (PTFE) HY= 聚醚橡胶 (Hytrell) SP=三道橡胶(Santoprene) CR=氯丁橡胶(Neoprene) BN= 丁腈橡胶 (Buna N) VT= 氟橡胶 (Viton) GE=Geolast CE=陶瓷(Ceramic)	

材质与适用温度

Materials and suitable temperature

• 密封圈与隔膜 Sealing and diaphragm

氟橡胶 (Fluoroelastomer Viton)	-40° F(-40°C)–350° F(176.6°C)
特氟龙 (PTFE, Teflon)	40° F(4.4°C)–350° F(176.6°C)
弹性体混合物 (Santoprene)	-20° F(-28.9°C)–220° F(104.4°C)
聚醚弹性体 (TPE Hytrel)	-20° F(-28.9°C)–220° F(104.4°C)
聚乙烯 (UHMWPE, Polyethylene)	0° F(-17.7°C)–140° F(60°C)
皮革 (Leather)	0° F(-17.7°C)–200° F(93.3°C)
氯丁橡胶 (Neoprene)	0° F(-17.7°C)–212° F(100°C)
丁腈橡胶(Buna-N)	-40° F(-40°C)–250° F(121°C)
聚氨酯(Polyurethane)	-40° F(-40°C)–200° F(93.3°C)

• 流体腔 Body cavity flow

乙缩醛(Acetal)	40° F(4.4°C)–150° F(65.5°C)
聚丙烯(PP, Polypropylene)	40° F(4.4°C)–150° F(65.5°C)
聚偏氟乙烯(Kynar, PVDF)	40° F(4.4°C)–200° F(93.3°C)带PTFE隔膜

注：1、以上材料的温度极限没有涉及压力等外界条件

The above material temperature limit did not involve external conditions such as pressure difference.

2、气动隔膜泵的自吸高度根据阀座，阀球和膜片的不同配合有差异性
Suction height changes with the different combinations of ball, seat and the diaphragm materials.

亚内斯气动隔膜泵优点

- 防爆，零泄漏，操作简单
- 可空转，能自吸，无复杂控制
- 可通过较大粘度的液体和较大颗粒的流体
- 低剪切力，不易破坏物料结构
- 材质多样性，且无转动部件，适用于各腐蚀性场合
- 通过改变供气量来调节流量大小
- 通过改变供气压力来调节泵的扬程
- 超负荷运作，泵会自动停机
- 无机械密封、易维修、成本低
- 模块化设计，无破碎，易于拆卸和修理

YANESS Air operated diaphragm pump features:

- Explosion-proof, zero leak, simple operation
- Idling capability, Self suction, No complex control
- Can transmit the adhesive liquid and large particles
- low shearing, Not easy to destroy material structure
- Diversity of material, no rotating parts, applicable to various erosive situations
- By changing the air supply to adjust the flow delivery
- By changing the air pressure to adjust the pump lift
- Once over-loading, the pump will automatically stop
- No mechanical seat, easy maintenance, low cost,
- Modularization of main valve and air motor. No broken, easy to disassemble and repair.

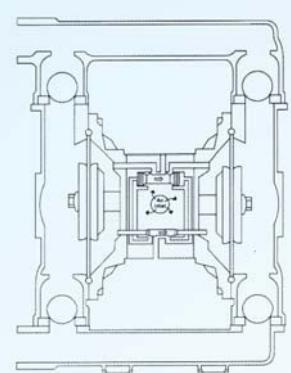
亚内斯泵零部件材质特性及选配

YANESS pump components material characteristics&application

◆ 乙缩醛(Acetal)–适用于球阀和阀座	良好的抗溶剂性、抗磨蚀性、摩擦阻力低、吸湿性低 good anti-solvent, anti-abrasion, low friction resistance, low moisture absorption
◆ apply to valve ball & seat	
◆ 铝合金(Aluminum)–适用于气动马达和流体腔	极强的抗击性、耐磨蚀性和耐热性、中等抗化学腐蚀性, 除不能用于HHCS流体外, 通用性好 Very strong anti-hit, wear-resistance & heat resistance, moderate resistance to chemical corrosion, with the exception of HHCS fluid
◆ apply to pneumatic motor & fluid-cavity	
◆ 导电乙缩醛(Groundable Acetal)–适用于流体腔	良好的抗溶剂性和抗油漆性可用于易燃性流体, 不适于酸碱类流体 Good anti-solvent and anti-paint, and can be used for flammable fluid, not for acid & alkali
◆ apply to fluid-cavity	
◆ 聚醚弹性体(Hytrel)–适用于隔膜、球阀和阀座	良好的抗磨蚀性、可替代丁腈橡胶, 适用于大多数中性流体 Good anti-abrasion, can replace Buna-N, apply to the majority of the neutral fluid
◆ apply to diaphragm, valve ball & seat	
◆ 聚偏氟乙烯(PVDF)–适用于流体腔和阀座	较强抗化学性抗挤压性、抗腐蚀性, 适用于高纯度酸类 Strong chemical extrusion resistance, anti-abrasion, apply to high purity acids
◆ apply to fluid-cavity & valve seat	
◆ 聚丙烯(PP)–适用于气动马达、流体腔和阀座	中等抗磨蚀性、良好的抗化学性, 通用性好, 特别适合于普通的酸碱 Medium abrasion resistance, good chemical resistance, good versatility, especially for common acid & alkali
◆ apply to pneumatic motor, fluid-cavity & valve seat	
◆ 氟橡胶(Viton)–适用于隔膜、球阀和阀座	极强耐酸性、耐无铅燃料、食品级 Highly acid-resistant, and resistant to unleaded fuel, food-grade
◆ apply to diaphragm, valve ball & seat	
◆ 不锈钢(Stainless Steel)–适用于流体腔、阀座和球阀	极好的抗腐蚀性、抗磨蚀性、适用于水性涂料, 粘性流体 Excellent corrosion resistance, abrasion resistance, and apply to water-based, paints, viscous fluid
◆ apply to fluid-cavity, valve ball & seat	
◆ 丁腈橡胶(Buna-N)–适用于隔膜和球阀	不适合强溶剂和化学流体, 适用于汽油类流体, 食品级 Not suitable for strong solvents and chemical fluid, apply to gasoline-type fluid, food grade
◆ apply to diaphragm, valve ball	
◆ 铸铁(CI)–适用于流体腔	良好的抗磨蚀性, 非常适合过滤泥浆输送 Good anti-abrasion, very suitable for transmitting filter mud
◆ apply to fluid-cavity	
◆ 硬化不锈钢(Hardened Stainless Steel)–适用于阀座	中等化学性, 良好的抗磨蚀性 Medium chemical resistance, good anti-abrasion
◆ apply to valve ball	
◆ 弹性混合物(Santoprene)–适用于隔膜、球阀和阀座	良好的抗磨蚀性、抗化学性和耐热性, 不适合溶性 可替代EPDM/EPR材质, 食品级 Good anti-abrasion, anti-soluble and heat-resistant, not suitable for soluble fluid, can replace EPDM/EPR, food grade
◆ apply to diaphragm, valve ball & seat	
◆ 特氟龙(PTFE, Teflon)–适用于隔膜、球阀和阀座	良好的抗化学性、抗溶剂性, 中等抗磨蚀性, 通用性强 Good anti-chemical, anti-solvent and medium abrasion resistance, high universality
◆ apply to diaphragm, valve ball & seat	
◆ (Geolast)–适用于隔膜、球阀和阀座	抗磨蚀性胜于Hytrel, 抗化学性同Buna-N Anti-abrasion better than Hytrel, anti-chemical same with Buna-N
◆ apply to diaphragm, valve ball & seat	

工作原理 Operating principle

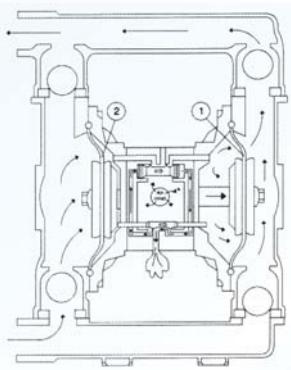
1



连接压缩空气后，气阀控制压缩空气推动膜片1，向右移动，同时膜片会挤压右膜腔室中的介质从而将介质排出泵腔。膜片不仅起输送介质的作用，同时在泵腔中起隔离压缩空气和介质。当一个膜片被压缩空气推向远离中间体时，与此同时通过连杆链接的另外一个膜片移向中间体。其中，处于高压中的连杆其作用是连接位于两个膜腔室中的膜片。当膜片2移向中间体时，膜片后面的高压空气通过阀门的换向通过消音器被迫排放到外界。当膜片2移向中间气阀时，泵入口产生真空并通过大气压力将介质压入泵的进口中。此时，泵的进口阀球会被抬高而离开阀座，保证介质很轻松的通过进口管路而充入泵腔中。

After connecting the compressed air, air valve control the compressed air impels diaphragm 1 moves toward right, meanwhile, the diaphragm 1 also extrude medium and cause it out of chamber. Diaphragm not only convey medium, also isolate compressed air and medium in the pump chamber. When one diaphragm is pushed away from the center body, another diaphragm will move toward center body for these two diaphragms are connected by one rod. When diaphragm 2 moves toward the center body. The following high pressure compressed air will be discharged out through the muffler; meanwhile, the pump inlet side will create a vacuum, then atmospheric pressure will push the medium into suction pipeline. The pump entry valve ball will be raised and away the valve seat. The medium will enter into pump chamber.

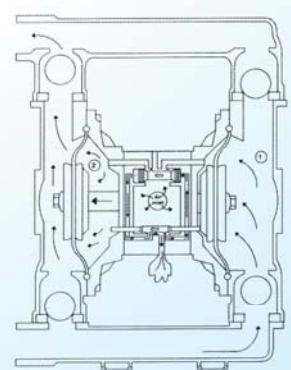
2



当膜片1位于高压空气下时，膜片1随着冲程慢慢的移动到最大位置。同时，通过气阀控制压缩空气慢慢充入膜片2后面的空间。此压缩空气 势必将推动膜片2慢慢远离中间体，通过连杆的连接，膜片1开始移向 中间体。膜片2将挤压膜腔室中介质并通过水力作用在进口处的阀球 上，使得阀球和阀座的接触后而封闭进口管路。同时，同样的水力作 用在出口处球阀上并提升球阀，打开出口管路。另一侧的出口处球阀因压力的作用而关闭，进口处的球阀同样因压力的作用而打开，液体也就被吸入泵腔室内。

When the diaphragm 1 under high pressure. It will slowly move to maximum position of the stroke. Meanwhile, the compressed air will slowly enter into diaphragm 2 following space and impels the diaphragm 2 away the center body. The diaphragm 1 also will move toward center body for these two diaphragms are connected by one rod. The diaphragm 2 will extrude the medium and function on entry valve ball and seal up the suction pipeline through the water power. The water power also will function on exit valve ball and open the discharge pipeline. Meanwhile, exit valve ball of pump another side will shut down for pressure function, entry valve ball will open, and then the medium will enter into the pump chamber.

3



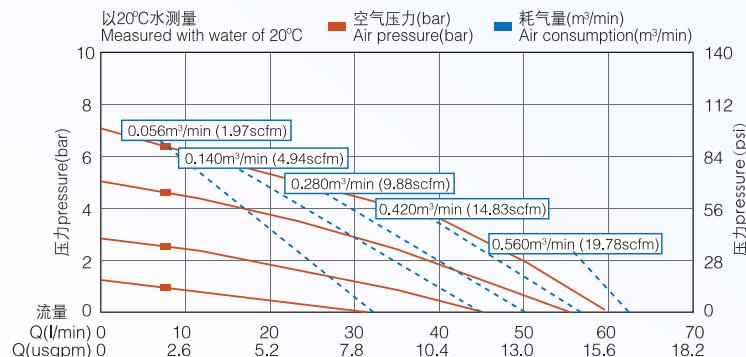
当一个冲程完成后，通过气阀的换向使得膜片1后面再次被充入压缩气体，同时膜片2开始移向中间体，膜片2后面的气体也开始通过气阀及消音器排向外界。

When one stroke finishes. The compressed air will enter into diaphragm 1 following space again through reversing valve. Simultaneously the diaphragm 2 following compressed air will discharge out through muffler.



YRO15 不锈钢泵 YRO20 Stainless steel pump

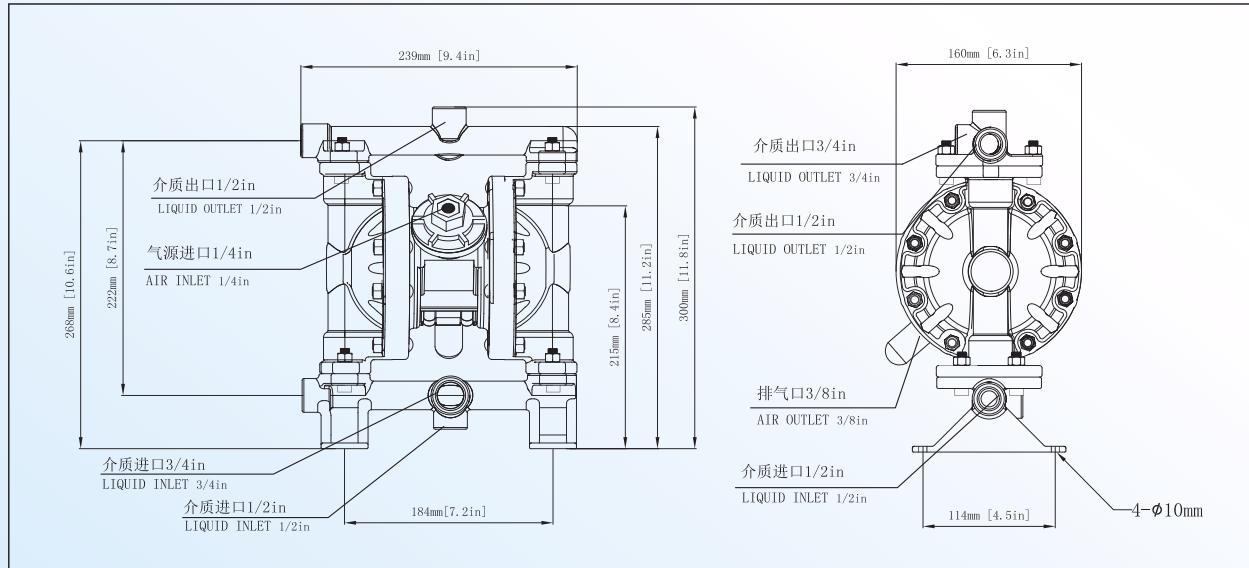
性能曲线 Performance curve



技术参数 technical parameters

最大自吸高度Max. Suction Lift 自吸高度随着泵的球，球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	干 dry 4m 湿 wet 7.6m
最大颗粒直径Max. particle diameter	2.5mm
吸入排出口suction and discharge size	1/2 3/4in /Npt
压缩空气入口Air inlet size	1/4in
最大流量Max. flow rate	57 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	28scfm (0.672m³ /min)
主体结构材质Main body material	不锈钢 304SST 316SST

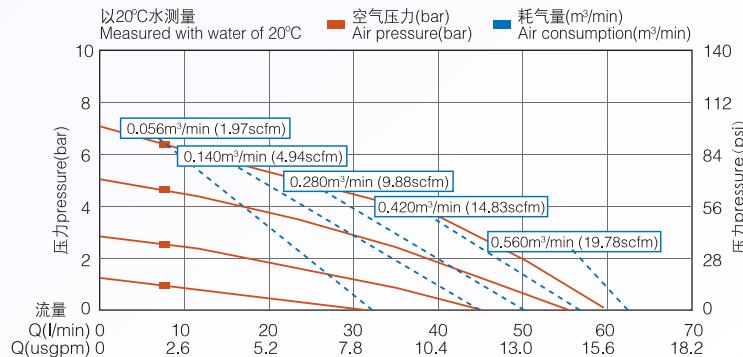
安装尺寸图 Installation size





YRO15 塑料泵 YRO20 Plastic pump

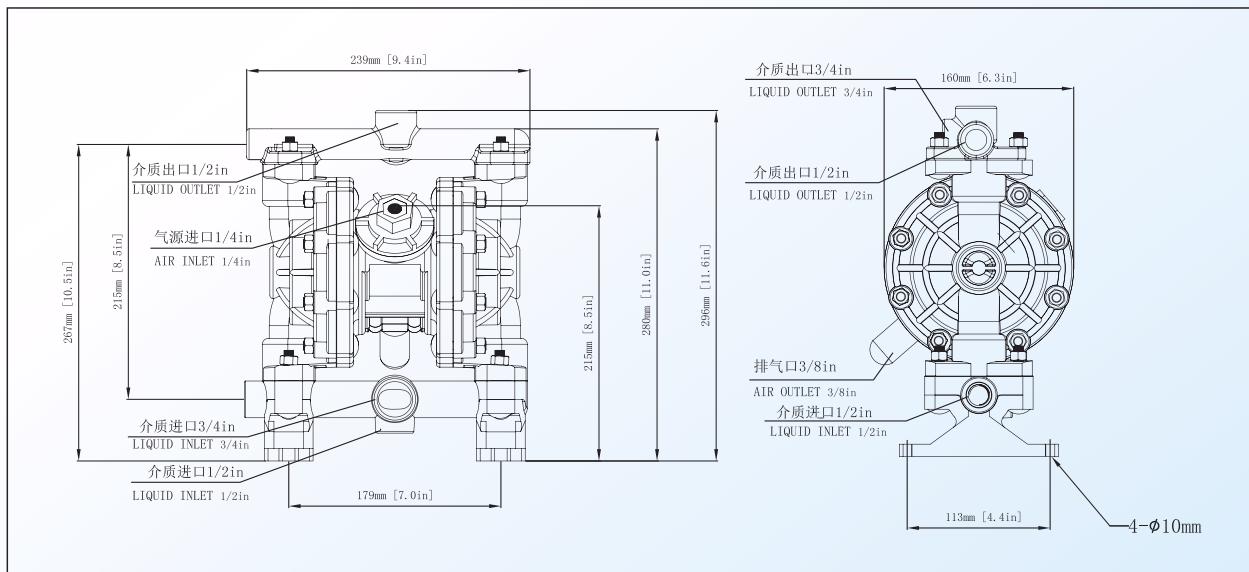
性能曲线 Performance curve



技术参数 technical parameters

最大自吸高度Max. Suction Lift	干 dry 4m 湿 wet 7.6m
自吸高度随着泵的球, 球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	
最大颗粒直径Max. particle diameter	2.5mm
吸入排出口suction and discharge size	1/2 3/4in /Npt
压缩空气入口Air inlet size	1/4in
最大流量Max. flow rate	57 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	28scfm (0.672m³ /min)
主体结构材质Main body material	聚丙烯、乙缩醛、PVDF PP Acetal PVDF

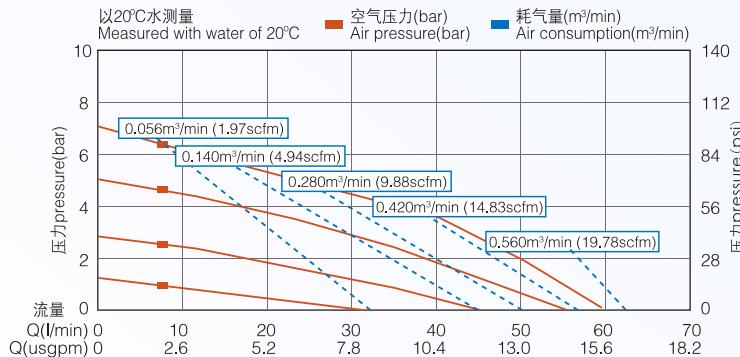
安装尺寸图 Installation size





YRO15 铝合金泵 YRO20 Aluminum alloy pump

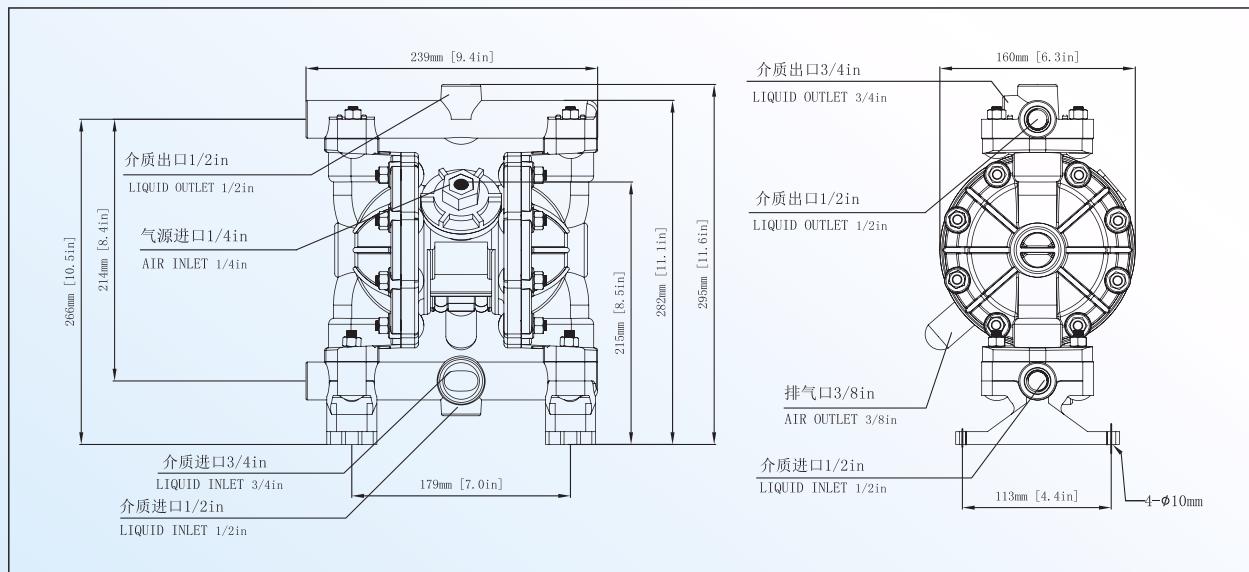
性能曲线 Performance curve

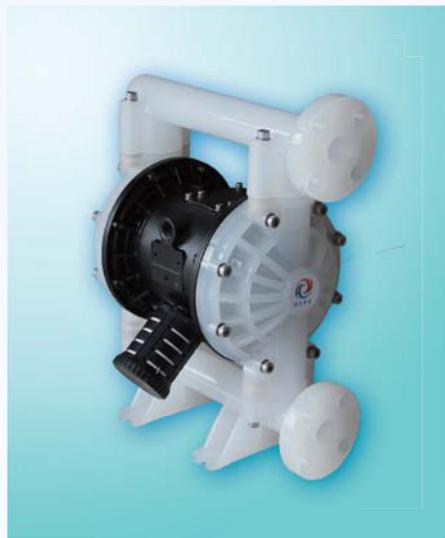


技术参数 technical parameters

最大自吸高度Max. Suction Lift 自吸高度随着泵的球, 球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	干 dry 4m 湿 wet 7.6m
最大颗粒直径Max. particle diameter	2.5mm
吸入排出口suction and discharge size	1/2 3/4in /Npt
压缩空气入口Air inlet size	1/4in
最大流量Max. flow rate	57 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	28scfm (0.672m³ /min)
主体结构材质Main body material	铝合金 Aluminum alloy

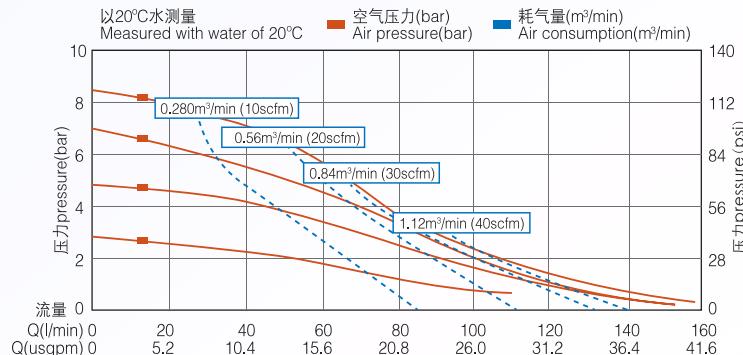
安装尺寸图 Installation size





YRO25 塑料泵 Plastic pump

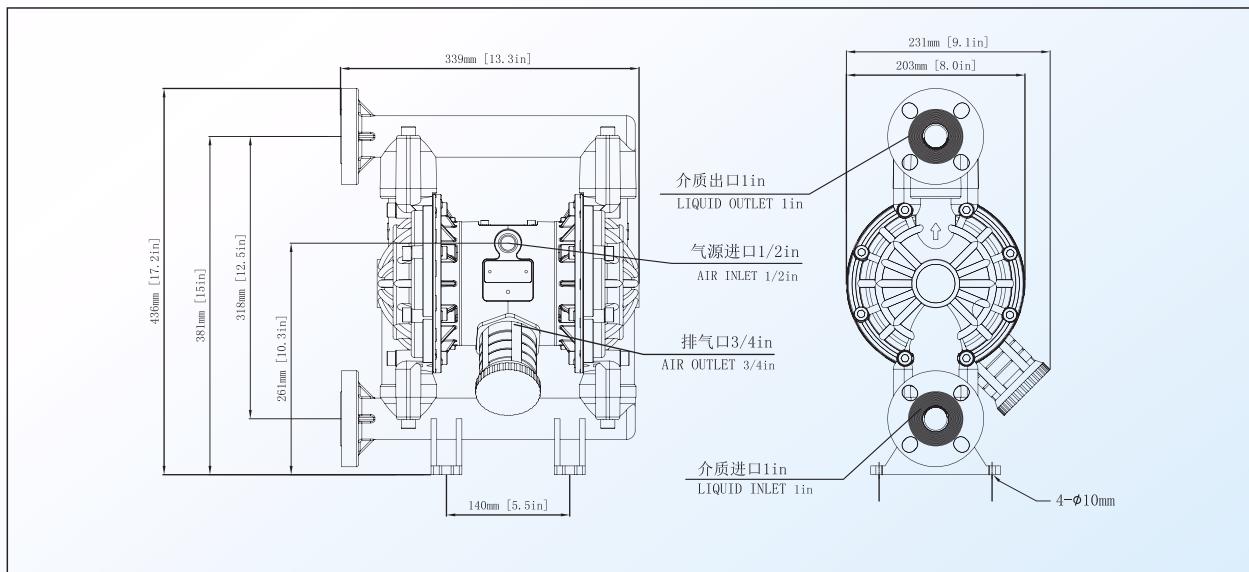
性能曲线 Performance curve



技术参数 technical parameters

最大自吸高度Max. Suction Lift	干 dry 4m 湿 wet 8m
自吸高度随着泵的球, 球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	
最大颗粒直径Max. particle diameter	4mm
吸入排出口suction and discharge size	1in /Npt /F
压缩空气入口Air inlet size	1/2in
最大流量Max. flow rate	157 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	60scfm (1.7m³/min)
主体结构材质Main body material	聚丙烯、乙缩醛、PVDF PP Acetal PVDF

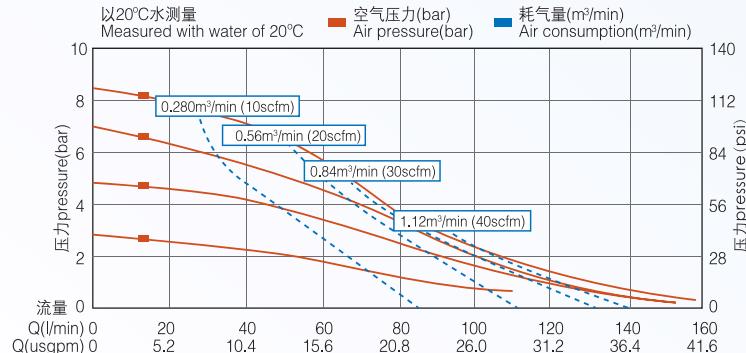
安装尺寸图 Installation size





YRO25 铝合金泵 Aluminum alloy pump

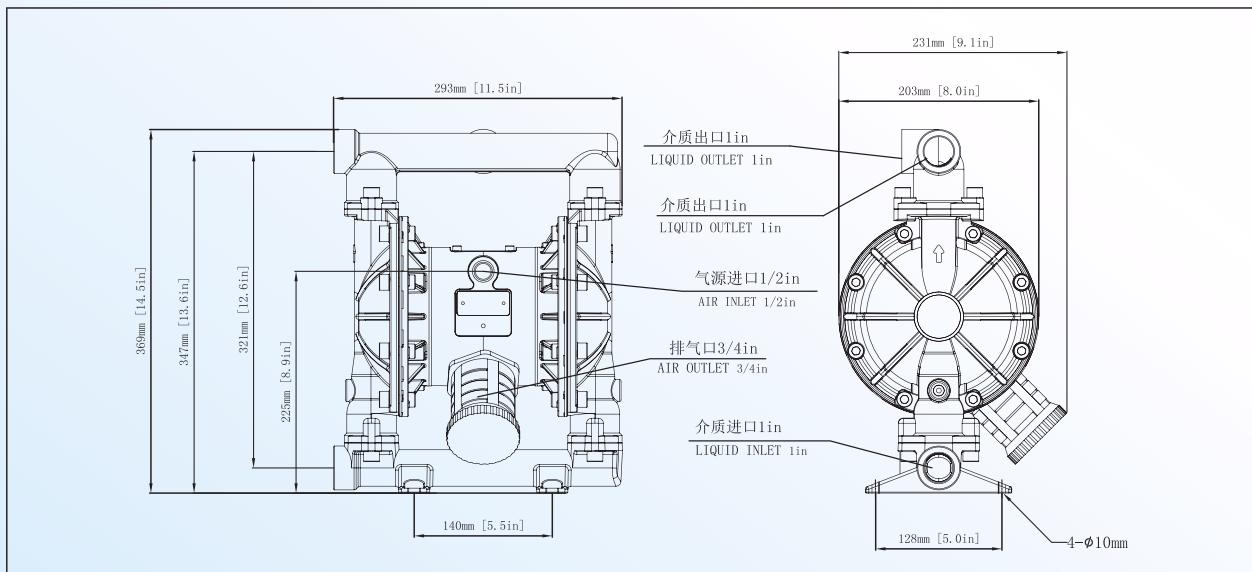
性能曲线 Performance curve



技术参数technical parameters

最大自吸高度Max. Suction Lift 自吸高度随着泵的球, 球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	干 dry 4m 湿 wet 8m
最大颗粒直径Max. particle diameter	4mm
吸入排出口suction and discharge size	1in /Npt /F
压缩空气入口Air inlet size	1/2in
最大流量Max. flow rate	157 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	60scfm (1.7m³ /min)
主体结构材质Main body material	铝合金 Aluminum alloy

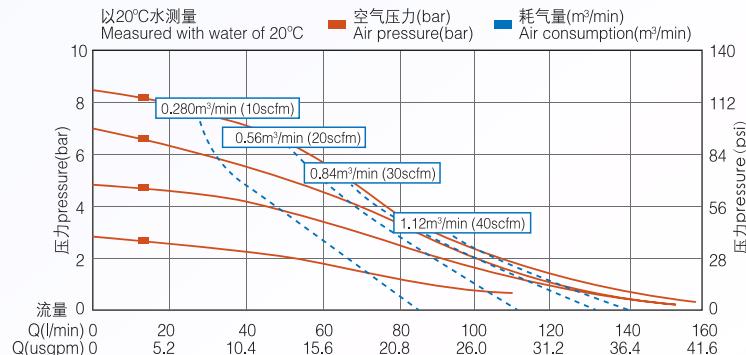
安装尺寸图 Installation size





YRO25 不锈钢泵 Stainless steel pump

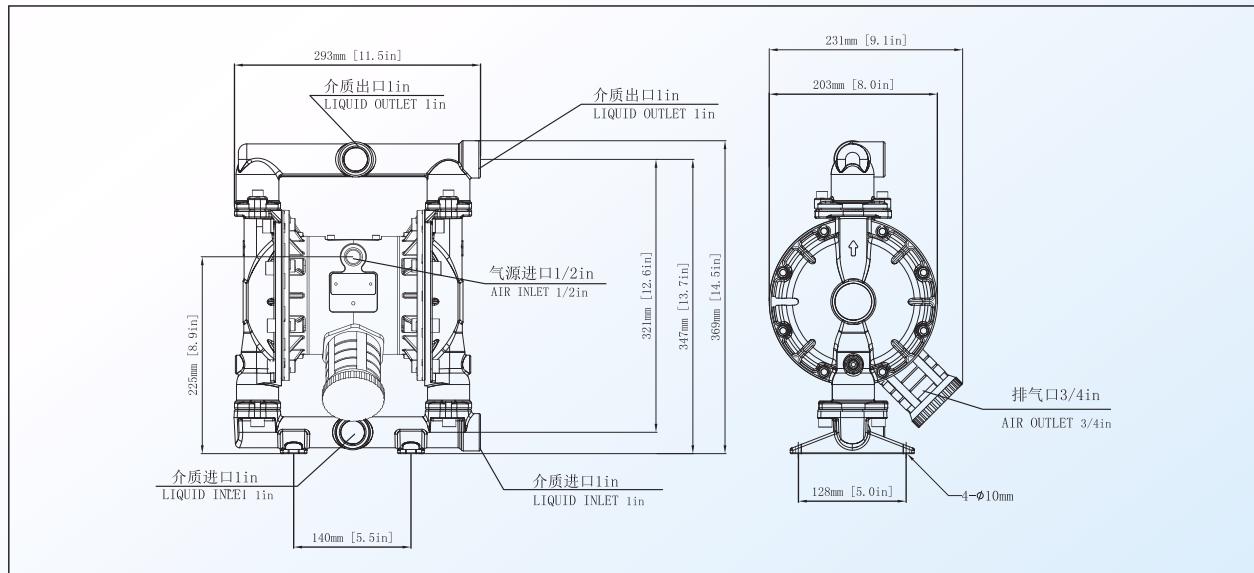
性能曲线 Performance curve



技术参数 technical parameters

最大自吸高度Max. Suction Lift 自吸高度随着泵的球, 球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	干 dry 4m 湿 wet 8m
最大颗粒直径Max. particle diameter	4mm
吸入排出口suction and discharge size	1in /Npt /F
压缩空气入口Air inlet size	1/2in
最大流量Max. flow rate	157 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	60scfm (1.7m³ /min)
主体结构材质Main body material	不锈钢 304SST 316SST

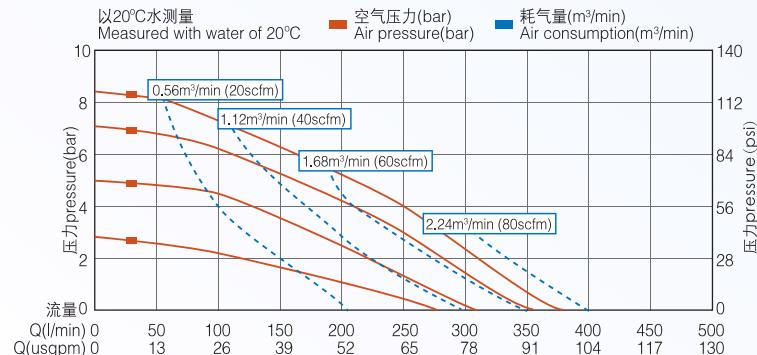
安装尺寸图 Installation size





YRO40 塑料泵 Plastic pump

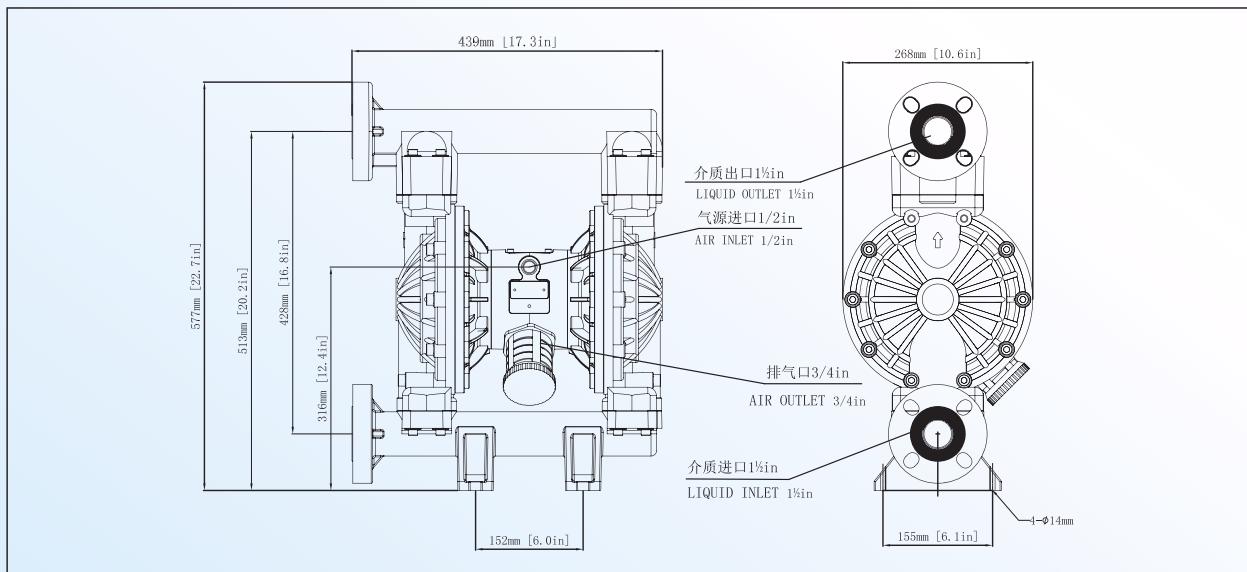
性能曲线 Performance curve



技术参数 technical parameters

最大自吸高度Max. Suction Lift 自吸高度随着泵的球, 球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	干 dry 5m 湿 wet 8m
最大颗粒直径Max. particle diameter	5mm
吸入排出口suction and discharge size	1 $\frac{1}{2}$ in /Npt /F
压缩空气入口Air inlet size	1/2in
最大流量Max. flow rate	358 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	125scfm (3.5m³ /min)
主体结构材质Main body material	聚丙烯、乙缩醛、PVDF PP Acetal PVDF

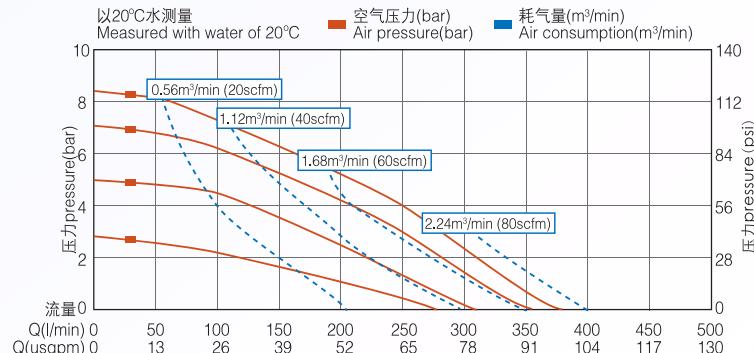
安装尺寸图 Installation size





YRO40 铝合金泵 Aluminum alloy pump

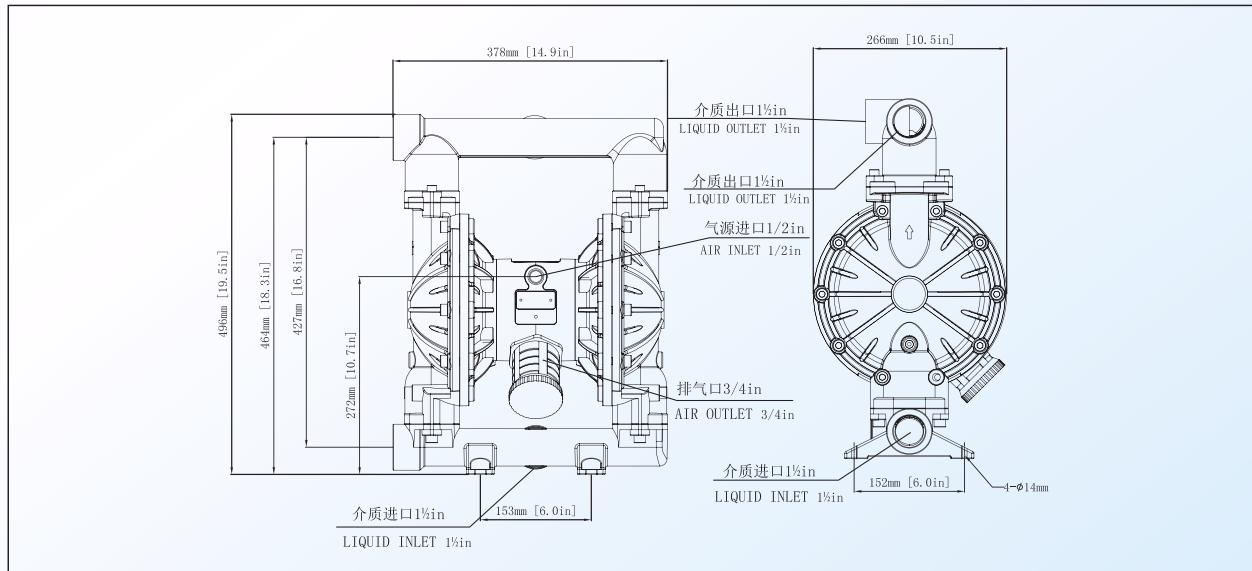
性能曲线 Performance curve



技术参数technical parameters

最大自吸高度Max. Suction Lift	干 dry 5m 湿 wet 8m
自吸高度随着泵的球，球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	
最大颗粒直径Max. particle diameter	5mm
吸入排出口suction and discharge size	1 $\frac{1}{2}$ in /Npt /F
压缩空气入口Air inlet size	1/2in
最大流量Max. flow rate	358 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	125scfm (3.5m ³ /min)
主体结构材质Main body material	铝合金 Aluminum alloy

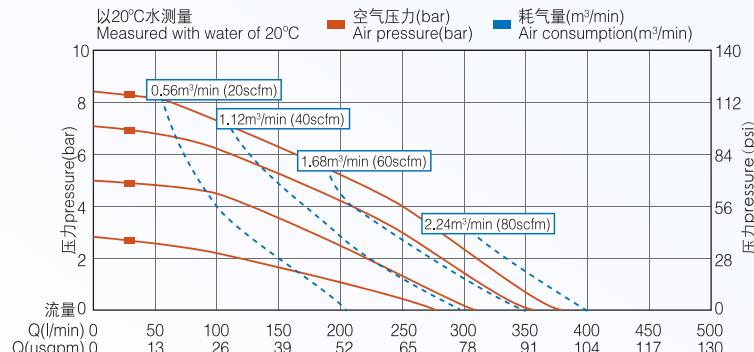
安装尺寸图 Installation size





YRO40 不锈钢泵 Stainless steel pump

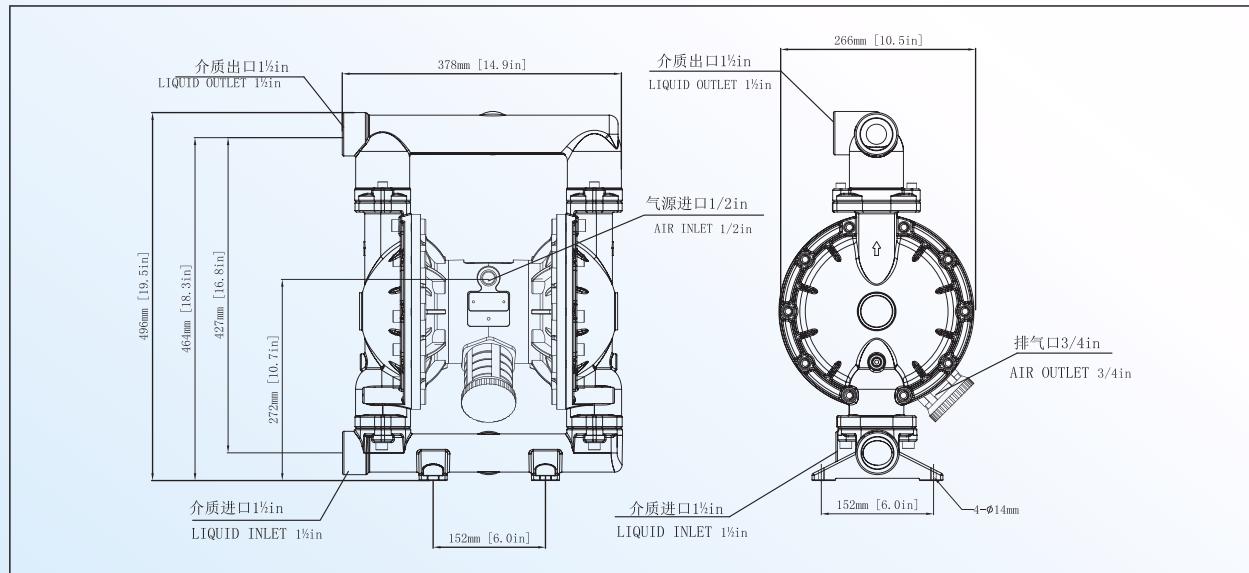
性能曲线 Performance curve



技术参数technical parameters

最大自吸高度Max. Suction Lift 自吸高度随着泵的球，球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	干 dry 5m 湿 wet 8m
最大颗粒直径Max. particle diameter	5mm
吸入排出口suction and discharge size	1 $\frac{1}{2}$ in /Npt /F
压缩空气入口Air inlet size	1/2in
最大流量Max. flow rate	358 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	125scfm (3.5m ³ /min)
主体结构材质Main body material	不锈钢 304SST 316SST

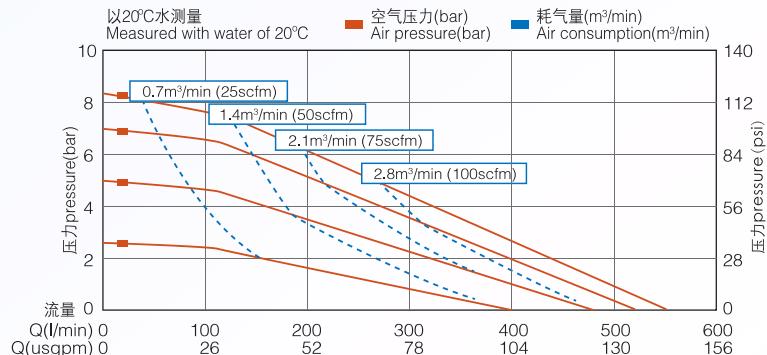
安装尺寸图 Installation size





YRO50 塑料泵 Plastic pump

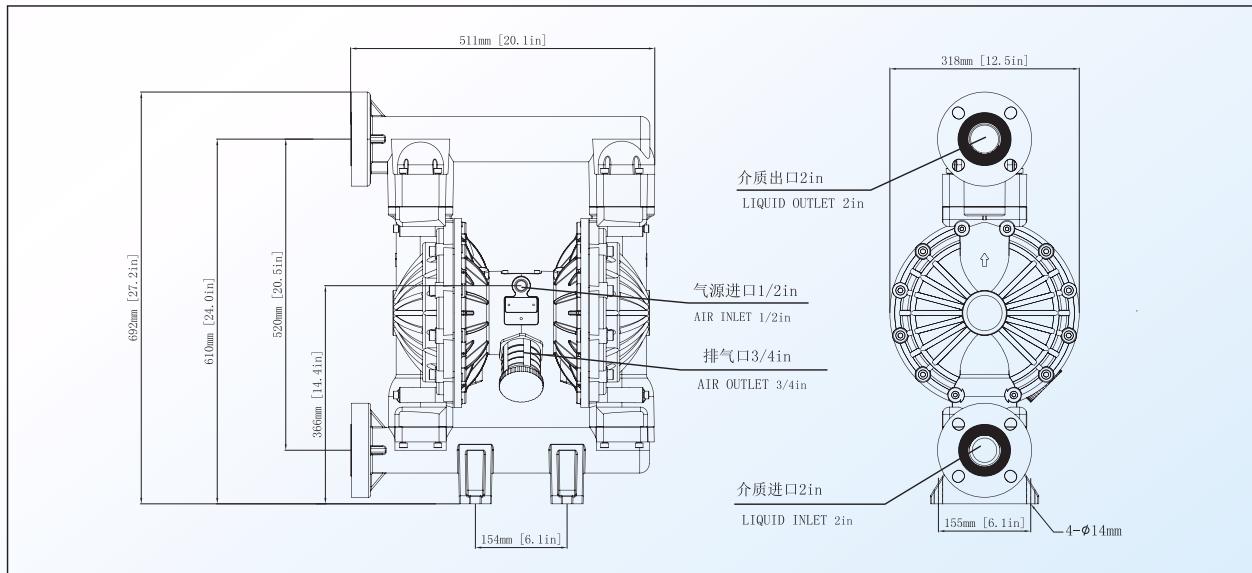
性能曲线 Performance curve



技术参数technical parameters

最大自吸高度Max. Suction Lift 自吸高度随着泵的球，球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	干 dry 5m 湿 wet 8m
最大颗粒直径Max. particle diameter	6mm
吸入排出口suction and discharge size	2in /Npt /F
压缩空气入口Air inlet size	1/2in
最大流量Max. flow rate	587 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	175scfm (4.9m³ /min)
主体结构材质Main body material	聚丙烯、乙缩醛、PVDF PP Acetal PVDF

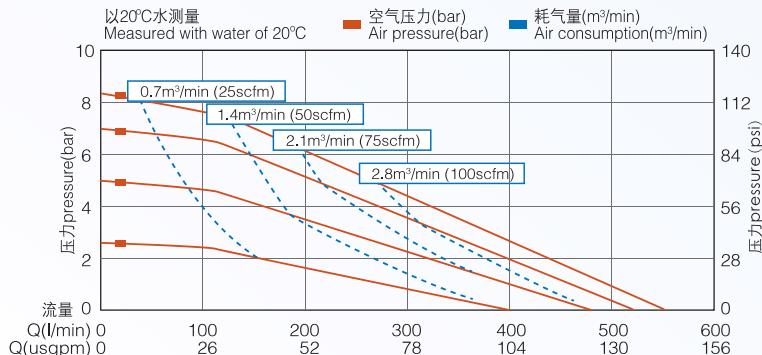
安装尺寸图 Installation size





YRO50 铝合金泵 Aluminum alloy pump

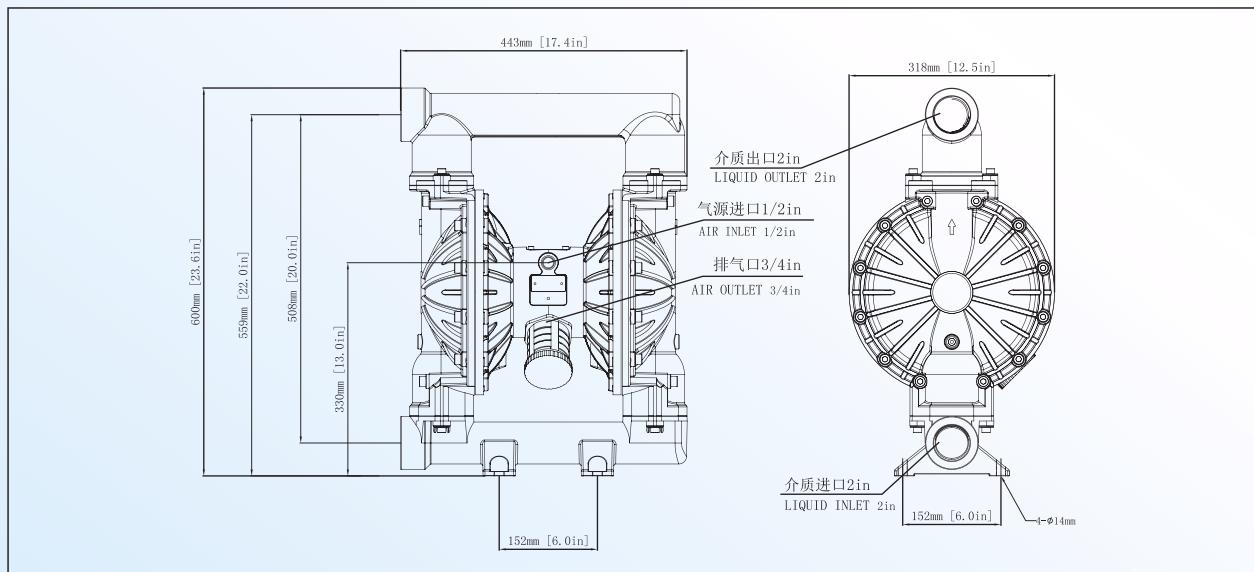
性能曲线 Performance curve



技术参数technical parameters

最大自吸高度Max. Suction Lift	干 dry 5m 湿 wet 8m
自吸高度随着泵的球, 球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	
最大颗粒直径Max. particle diameter	6mm
吸入排出口suction and discharge size	2in /Npt /F
压缩空气入口Air inlet size	1/2in
最大流量Max. flow rate	587 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	175scfm (4.9m ³ /min)
主体结构材质Main body material	铝合金 Aluminum alloy

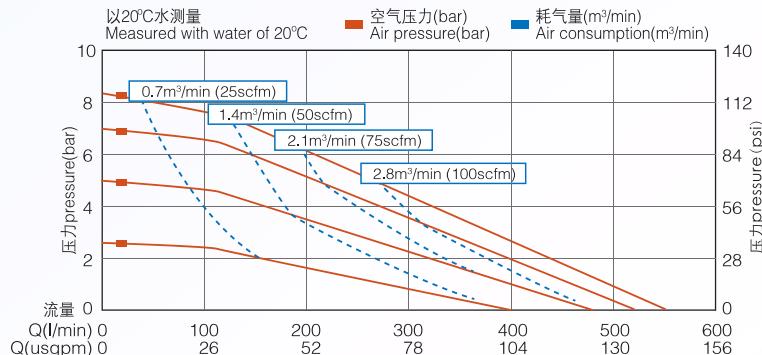
安装尺寸图 Installation size





YRO50 不锈钢泵 Stainless steel pump

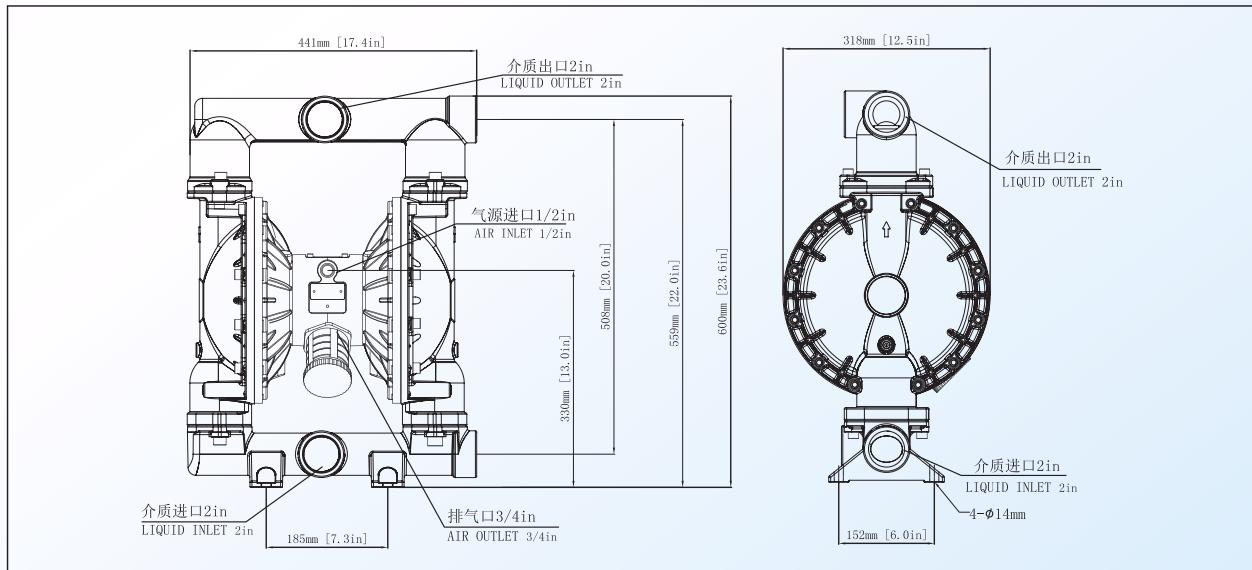
性能曲线 Performance curve



技术参数technical parameters

最大自吸高度Max. Suction Lift 自吸高度随着泵的球，球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	干 dry 5m 湿 wet 8m
最大颗粒直径Max. particle diameter	6mm
吸入排出口suction and discharge size	2in /Npt /F
压缩空气入口Air inlet size	1/2in
最大流量Max. flow rate	587 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	175scfm (4.9m ³ /min)
主体结构材质Main body material	不锈钢 304SST 316SST

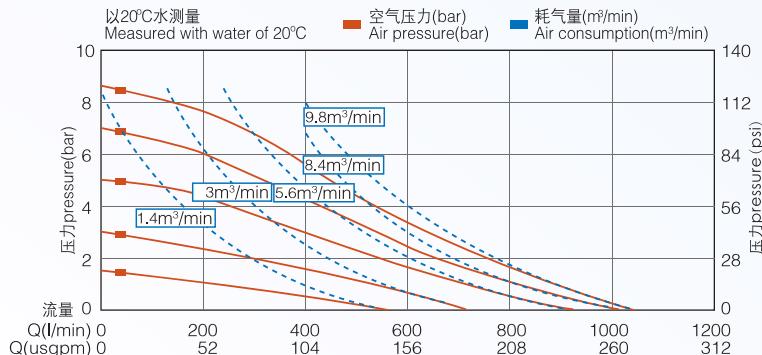
安装尺寸图 Installation size





YRO80 塑料泵 Plastic pump

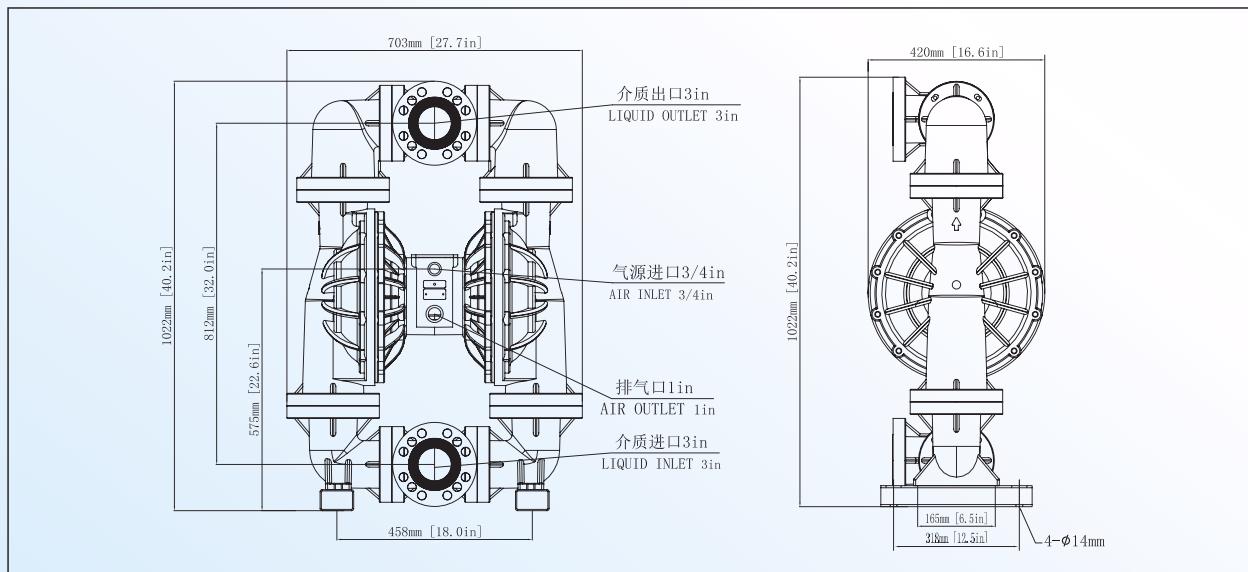
性能曲线 Performance curve



技术参数 technical parameters

最大自吸高度 Max. Suction Lift 自吸高度随着泵的球，球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	干 dry 5m 湿 wet 8m
最大颗粒直径 Max. particle diameter	9.4mm
吸入排出口 suction and discharge size	3in /Npt /F
压缩空气入口 Air inlet size	3/4 in
最大流量 Max. flow rate	1060 L/min
最大扬程 Max. head	84m
最大空气供给压力 Max. air inlet pressure	8.4bar
最大空气消耗量 Max. air consumption	325scfm (9.1m³ /min)
主体结构材质 Main body material	聚丙烯、PVDF PP PVDF

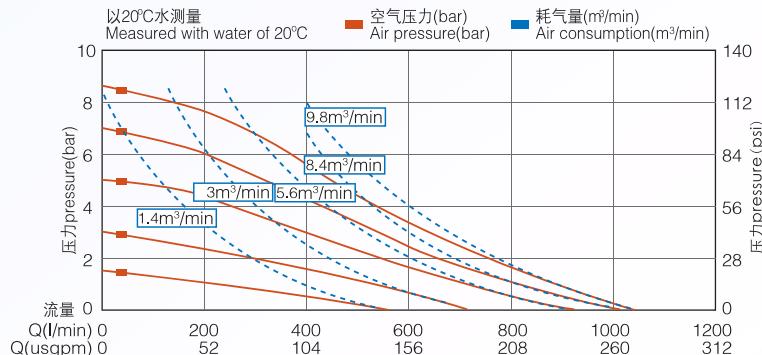
安装尺寸图 Installation size





YRO80 铝合金泵 Aluminum alloy pump

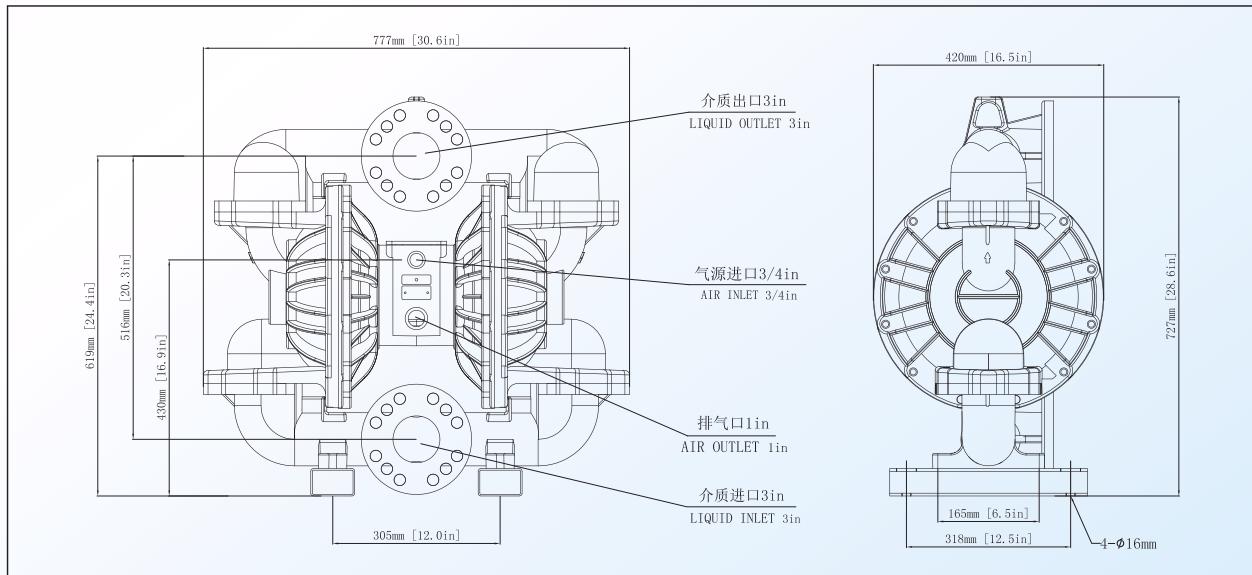
性能曲线 Performance curve



技术参数technical parameters

最大自吸高度Max. Suction Lift 自吸高度随着泵的球, 球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	干 dry 5m 湿 wet 8m
最大颗粒直径Max. particle diameter	9.4mm
吸入排出口suction and discharge size	3in /Npt /F
压缩空气入口Air inlet size	3/4 in
最大流量Max. flow rate	1060 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	325scfm (9.1m³ /min)
主体结构材质Main body material	铝合金 Aluminum alloy

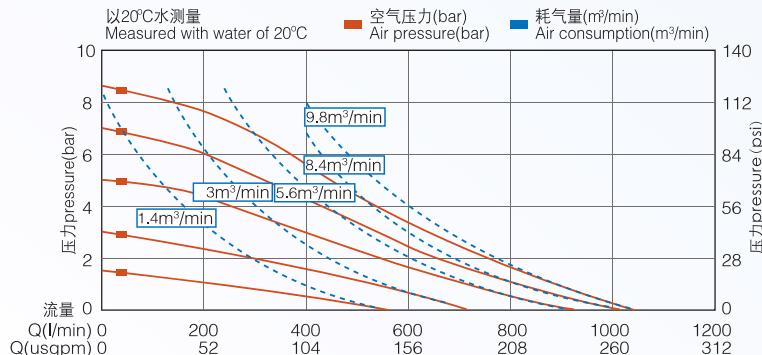
安装尺寸图 Installation size





YRO80 不锈钢泵 Stainless steel pump

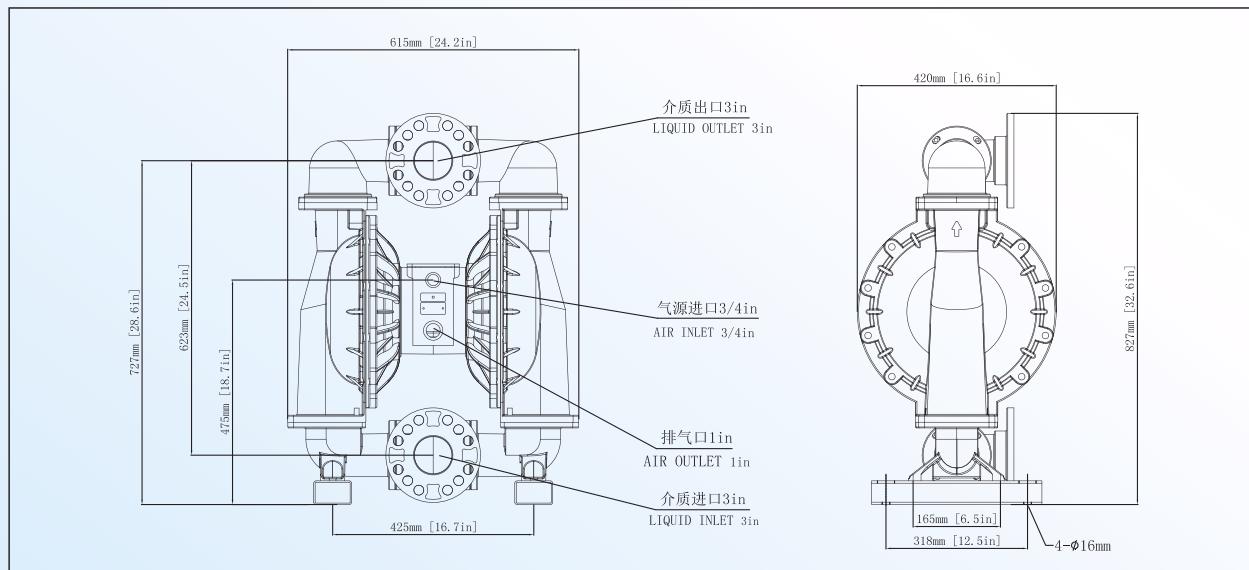
性能曲线 Performance curve



技术参数technical parameters

最大自吸高度Max. Suction Lift 自吸高度随着泵的球, 球座和隔膜的不同材质的组合而变化 Suction height changes with the different combinations of ball, seat and the diaphragm materials.	干 dry 5m 湿 wet 8m
最大颗粒直径Max. particle diameter	9.4mm
吸入排出口suction and discharge size	3in /Npt /F
压缩空气入口Air inlet size	3/4 in
最大流量Max. flow rate	1060 L/min
最大扬程Max. head	84m
最大空气供给压力Max. air inlet pressure	8.4bar
最大空气消耗量Max. air consumption	325scfm (9.1m³ /min)
主体结构材质Main body material	不锈钢 304SST 316SST

安装尺寸图 Installation size



腐蚀性流体与泵的浸湿部件匹配参考表

Corrosive fluid parameter & Wetted parts of pump select

泵的浸湿部件 Wetted parts of pump		泵的浸湿部件 Wetted parts of pump											
腐蚀性流体 Corrosive fluid	铝 Aluminum	不锈钢 Stainless steel	聚丙烯 Polypropylene	聚酰胺树脂 Aldelyde Resin	丁腈橡胶 Buna N	三元乙丙橡胶 EPDM	氟橡胶 VITON	聚四氟乙烯 Teflon	聚丙烯弹性体 TPEE	聚乙丙烯弹性体 TPE	聚四氟乙稀 Teflon	聚丙烯弹性体 TPEE	Polyethylene elastomer
沥青asphalt	✓	✓	✓					✓					
基胺	✓	✓						✓	✓		✓		
乙炔acetylene	✓	✓		✓	✓			✓	✓				
亚麻仁油linseed oil		✓				✓		✓					
丙酮acetone	✓	✓		✓		✓		✓	✓	✓			
乙醇ethanol	✓	✓	✓		✓		✓	✓	✓				
甲醇methanol	✓	✓	✓		✓			✓	✓				
氨液ammonia,	✓	✓	✓	✓		✓		✓	✓	✓			
亚硫酸溶剂 Sulfurous acid solvent		✓					✓	✓	✓				
威士忌酒Whiskey		✓	✓				✓		✓				
乙醚Ethyl ether	✓	✓						✓					
乙醇胺Ethanol amine	✓	✓						✓					
乙醇Ethanol	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		
乙二醇Glycol	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
液化石油气Liquefied petroleum gas													
氯化锌Zinc chloride		✓	✓				✓		✓	✓			
氯化烷(干)Chlorinated alkane(dry)		✓			✓	✓		✓					
氯化氢气体Hydrogen chloride gas	✓						✓	✓					
氯化铜Cupric chloride				✓	✓	✓	✓	✓	✓	✓			
氯乙钠		✓	✓	✓	✓	✓	✓		✓	✓			
氯化镍Nickel chloride			✓		✓	✓	✓	✓	✓	✓			
氯化钡Barium chloride			✓	✓	✓	✓	✓	✓	✓	✓			
氯化镁Magnesium chloride		✓	✓	✓	✓	✓	✓	✓	✓	✓			
二氯甲烷 Methylene chloride	✓							✓					
氯气Chlorine		✓	✓	✓	✓	✓	✓	✓	✓	✓			
氯(干) Chlorine(dry)								✓	✓				
辛烷Octane	✓	✓						✓	✓				
油酸Oleic acid					✓			✓					
汽油(精制)Gasoline (refined)	✓	✓		✓				✓	✓				
汽油(粗制)Gasoline (crude)	✓	✓		✓				✓	✓				
过氯化钠Sodium chloride							✓	✓					
果汁Fruit juice		✓				✓		✓					
过硼酸钠Sodium perborate		✓	✓	✓		✓	✓	✓	✓				
二甲苯/混合二甲苯xylol/Mixed xylol	✓	✓		✓			✓	✓					
蚁酸Formic acid				✓				✓					
挥发油(硼油)Volatile oil (Boron oil)	✓	✓		✓				✓					
柠檬酸Citric acid		✓				✓	✓	✓	✓				
脂Grease	✓	✓			✓			✓	✓	✓			
焦油 Tar	✓	✓	✓		✓	✓	✓	✓	✓	✓			
乙二醇Glycol	✓	✓	✓	✓	✓	✓		✓	✓	✓			
杂酚油Creosote	✓	✓			✓			✓	✓				
甲苯基酸Cresylic acid		✓					✓	✓					

腐蚀性流体与泵的浸湿部件匹配参考表

Corrosive fluid parameter & Wetted parts of pump select

泵的浸湿部件 Wetted parts of pump										
	铝 Aluminum	不锈钢 Stainless steel	聚丙烯 Polypropylene	聚丙烯树脂 Acrylate Resin	丁腈橡胶 Buna N	三元乙丙橡胶 EPDM	氟橡胶 VITON	聚四氟乙烯 Teflon	聚丙烯弹性体 TPEE	Polyethylene elastomer Polyethylene elastomer
腐蚀性流体 Corrosive fluid										
氢氧化镁Magnesium hydroxide	✓	✓	✓	✓		✓	✓	✓		
氢Hydrogen										
明胶Gelatin	✓	✓	✓	✓	✓	✓		✓		
碳酸(苯酚)Carbonic acid (phenol)		✓					✓	✓		
石油 原油Petroleum crude oil	✓	✓		✓			✓			
精制油Refined oil	✓	✓		✓			✓			
氢酸Hydrofluoric acid										
石灰硫酸Lime sulfuric acid		✓	✓			✓	✓	✓		
肥皂水soap-suds		✓	✓	✓	✓	✓	✓	✓	✓	✓
洗涤粉(合成)Washing powder(synthetic)		✓	✓		✓	✓	✓	✓	✓	
苏打粉Baking soda		✓			✓		✓			
焦油Tar	✓	✓					✓			
豆油Soybean oil	✓	✓		✓	✓	✓		✓		
碳酸Carbonate	✓	✓	✓	✓			✓	✓		
碳酸钠Sodium carbonate		✓			✓	✓		✓		
碳酸镁Magnesium carbonate	✓		✓	✓	✓		✓	✓		
鞣酸(稀)Tannic acid (thin)	✓	✓	✓				✓	✓	✓	✓
硫代硫酸钠Sodium thiosulfate	✓	✓	✓		✓	✓	✓	✓		
柴油Diesel oil	✓	✓		✓	✓		✓			
四氯乙烯Tetrafluoroethylene		✓		✓			✓			
天然气Natural gas		✓								
三氯乙烯Trichloroethylene		✓		✓			✓	✓		
甲苯Toluene	✓	✓		✓			✓			
糖蜜Molasses	✓	✓	✓	✓			✓	✓		
煤油kerosene	✓	✓		✓	✓		✓	✓	✓	
粗制汽油Crude gasoline	✓	✓		✓			✓	✓	✓	
萘Naphthalene		✓	✓	✓			✓	✓		
环烷酸Naphthenic acid		✓					✓			
(动物)胶Gelatin	✓	✓	✓		✓		✓	✓	✓	
甲胺硝石Methylamine nitrate		✓					✓			
氯化乙烯(干)Vinyl chloride (dry)		✓					✓			
二硫化碳Carbon disulfide		✓		✓			✓	✓		
乳酸Lactic acid	✓	✓	✓			✓	✓	✓	✓	
尿素Urea		✓	✓	✓			✓	✓	✓	
四氯乙烯] Tetrachloroethylene		✓		✓			✓	✓		
石蜡Paraffin wax	✓	✓	✓	✓	✓	✓	✓			
棕榈酸Palmitic acid		✓	✓				✓			
白液(造纸厂)White liquid (paper mill)		✓					✓			
蓖麻油Castor oil		✓				✓		✓		
苦味酸Picric acid	✓	✓					✓	✓		
啤酒 Beer		✓	✓			✓		✓		
氟利昂Freon		✓		✓		✓	✓	✓		

Air Operated Diaphragm Pump



稳压器 Regulator



泵配件 Pump parts



泵配件 Pump parts



球阀 Ball valve



快速接头 Quick coupler



转换接头 Conversion joint



底阀 Check valve



流量计 Flow meter



计量油枪 Meter nozzle



油水分离器
oil-water separator



电磁阀 Solenoid valve



仓库一角 Warehouse corner

气动隔膜泵主要应用领域及适合处理的流体

The main application areas of Pneumatic Diaphragm Pump & the suitable fluid

化工业：酸、碱、溶剂、悬浮物、分散体系。

Chemical industry: Acid, alkalis, solvents, suspended solids, decentralized system

石化业：原油、稠油、油脂、泥浆、污泥等。

Petrochemical industry: Crude oil, dense oil, grease, slurry, mire, etc.

涂料业：树脂、溶剂、着色剂、油漆等。

Coating industry: Resins, solvents, coloring agents, paints, etc.

日化业：洗涤剂、香波、乳液、乳剂、手霜、表面活化剂。

Daily chemical industry: Detergent, shampoo, latex, emulsion, hand cream, surfactants.

陶瓷业：泥浆、陶浆、石灰浆、陶土浆。

Ceramic industry: Slurry, ceramic mud, lime mud, clay, etc

采矿业：煤浆、岩浆、泥浆、砂浆、炸药浆、润滑油等。

Mining industry: Coal mud, lava, mud, slurry, explosives slurry, lubricants, etc.

水处理：石灰浆、软性沉淀物、污水、化学品、废水。

water treatment: Lime mud, soft sediments, sewage, chemicals, waste water.

食品业：液态半固体、巧克力、盐水、醋、糖浆、菜油、大豆油、蜂蜜、动物血。

Food industry: Emulsion liquid, chocolate, salt water, vinegar, syrup, vegetable oil, soybean oil, honey, animal blood

饮料业：酵母、糖浆、浓缩物、气液混合物、葡萄酒、果汁、玉米浆等。

Beverage industry: Yeast, syrups, concentrates, gas-liquid mixture, wine, juice, corn liquor, etc.

医药业：溶剂、酸、碱、植物提炼液、软膏、血浆等各类药品料液。

Medicine industry: Solvents, acids, alkali, plant extracted liquid, ointment, plasma and other drugs liquid

造纸业：粘结剂、树脂、油漆、油墨、颜料、双氧水等。

Papermaking industry: Adhesives, resins, paints, inks, pigments, H₂O₂, etc.

电子业：溶剂、电镀液、清洗液、硫酸、硝酸、废酸、腐蚀性酸、抛光液。

Electronic industry: Solvents, plating solutions, cleaning agents, H₂SO₄, HNO₃, waste acids, corrosive acid,

纺织业：染料化学品、树脂、胶等。

Textile industry: Dyes chemicals, resins, glue etc

建筑业：水泥浆、陶瓷瓦粘结剂、岩石浆、天花板面漆等。

Construction industry: Cement, ceramic tile adhesive, rock slurry, the ceiling paint

汽车业：抛光乳剂、油、冷却剂、汽车底漆、油乳胶、清漆、清漆添加剂、脱脂液、油漆等。

Automobile Industry: Polishing emulsion, oil, coolant, automotive paint, oil emulsions, varnish, varnish additives, skim paint, paint, etc.

家具业：粘结剂、清漆、分散体系、溶剂、色剂、自木胶、环氧树脂、淀粉粘结剂。

Furniture industry: Additives, varnish, solvents, decentralized system, color agent, white glue, epoxy, starch adhesives.

冶金、铸造和染色业：金属浆、氢氧化物和碳化物浆、灰尘洗涤浆等。

Metallurgical, forging & dyeing industry: Metal slurry, hydroxides and carbide slurry, dust-washingslurry.





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