



CHEMICAL PUMP & FILTER
WITH ACID-ALKALI RESISTANCE
EXPERT IN R&D AND MANUFACTURING

AODD Pump
Diaphragm Pump
Model : VA



Pumps Model Selection Guide

VA	25	B	PP	PP	TF	TF
DimensionConnectionsPump BodyValve SeatValve BallDiaphragm						
Pump inlet/outlet size	Connections	Material	Material	Material	Material	Material
06=1/4in(8 caliber) 10=3/8in(10 caliber) 15=1/2in(15 caliber) 20=3/4in(20 caliber) 25=1in(25 caliber) 40=1.5in(40 caliber) 50=2in(50 caliber) 80=3in(80 caliber) 100=4in(100 caliber)	B= BSPP N= NPT F= Flange	AC= Acetal PP= Polypropylene KY= PVDF SS= 304SST LL= 316SST CI= Cast iron AL= Aluminum	AC= Acetal PP= Polypropylene AL= Aluminum SS= 304SST LL= 316SST HY= Hytrel SP= Santoprene KY= PVDF TF= PTFE BN= Buna N VT= Viton GE=Geolast	AC= Acetal PP= Polypropylene AL= Aluminum SS= 304SST LL= 316SST HY= Hytrel SP= Santoprene TF= PTFE BN= Buna N VT= Viton GE=Geolast CE=Ceramic	TF= PTFE HY= Hytrel SP= Santoprene CR= Neoprene BN= Buna N VT= Viton GE=Geolast	

Materials and suitable temperature

◆ Sealing and diaphragm

Fluoroelastomer Viton	-40° F(-40°C)–350° F(176.6°C)
PTFE, Teflon	40° F(4.4°C)–350° F(176.6°C)
Santoprene	-20° F(-28.9°C)–220° F(104.4°C)
TPE Hytrel	-20° F(-28.9°C)–220° F(104.4°C)
UHMWPE, Polyethylene	0° F(-17.7°C)–140° F(60°C)
Leather	0° F(-17.7°C)–200° F(93.3°C)
Neoprene	0° F(-17.7°C)–212° F(100°C)
Buna-N	-40° F(-40°C)–250° F(121°C)
Polyurethane	-40° F(-40°C)–200° F(93.3°C)

◆ Body cavity flow

Acetal	40° F(4.4°C)–150° F(65.5°C)
PP, Polypropylene	40° F(4.4°C)–150° F(65.5°C)
Kynar, PVDF	40° F(4.4°C)–200° F(93.3°C)

AODD 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.

Note:

- 1、The above material temperature limit did not involve external conditions such as pressure difference.
- 2、Suction height changes with the different combinations of ball, seat and the diaphragm materials.

Pump components material characteristics&application

◆ **Acetal-apply to valve ball&seat**

Good anti-solvent, anti-abrasion, low friction resistance, low moisture absorption

◆ **Aluminum-apply to pneumatic motor & fluid-cavity**

Very strong anti-hit, wear-resistance & heat resistance, moderate resistance to chemical corrosion, with the exception of HHCS fluid

◆ **Groundable Acetal-apply to fluid-cavity**

Good anti-solvent and anti-paint, and can be used for flammable fluid, not for acid & alkali

◆ **Hytrel-apply to diaphragm, valve ball&seat**

Good anti-abrasion, can replace Buna-N, apply to the majority of the neutral fluid

◆ **PVDF-apply to fluid-cavity & valve seat**

Strong chemical extrusion resistance, anti-abrasion, apply to high purity acids

◆ **PP-apply to pneumatic motor, fluid-cavity&valve seat**

Medium abrasion resistance, good chemical resistance, good versatility, especially for common acid & alkali

◆ **Viton-apply to diaphragm, valve ball&seat**

Highly acid-resistant, and resistant to unleaded fuel, food-grade

◆ **Stainless Steel-apply to fluid-cavity, valve ball&seat**

Excellent corrosion resistance, abrasion resistance, and apply to water-based, paints, viscous fluid

◆ **Buna-N-apply to diaphragm, valve ball**

Not suitable for strong solvents and chemical fluid, apply to gasoline-type fluid, food grade

◆ **CI-apply to fluid-cavity**

Good anti-abrasion, very suitable for transmitting filter mud

◆ **Hardened Stainless Steel-apply to valve ball**

Medium chemical resistance, good anti-abrasion

◆ **Santoprene-apply to diaphragm, valve ball & seat**

Good anti-abrasion, anti-soluble and heat-resistant, not suitable for soluble fluid, can replace EPDM/EP, food grade

◆ **PTFE, Teflon-apply to diaphragm, valve ball & seat**

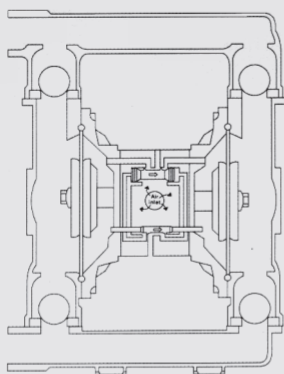
Good anti-chemical, anti-solvent and medium abrasion resistance, high universality

◆ **Geolast-apply to diaphragm, valve ball & seat**

Anti-abrasion better than Hytrel, anti-chemical same with Buna-N

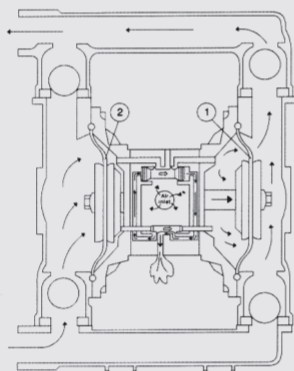
Operating principle

1



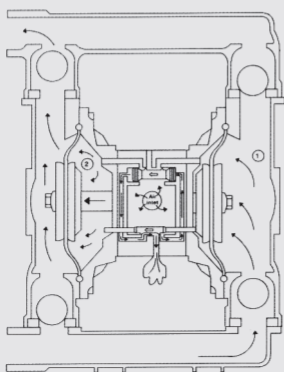
After connecting the compressed air, air valve control the compressed air impels diaphragm 1 moves toward right, meanwhile, the diaphragm 1 also extrude medium and cause it out of chamber. Diaphragm not only convey medium, also isolate compressed air and medium in the pump chamber. When one diaphragm 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



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

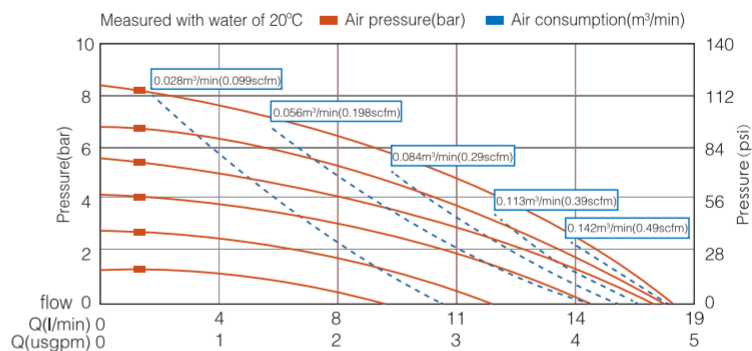


When one stroke finishes. The compressed air will enter into diaphragm 1 following space again through reversing valve. Simultaneously the diaphragm 2 following compressed air will discharge out through muffler.



VA06 Plastic pump

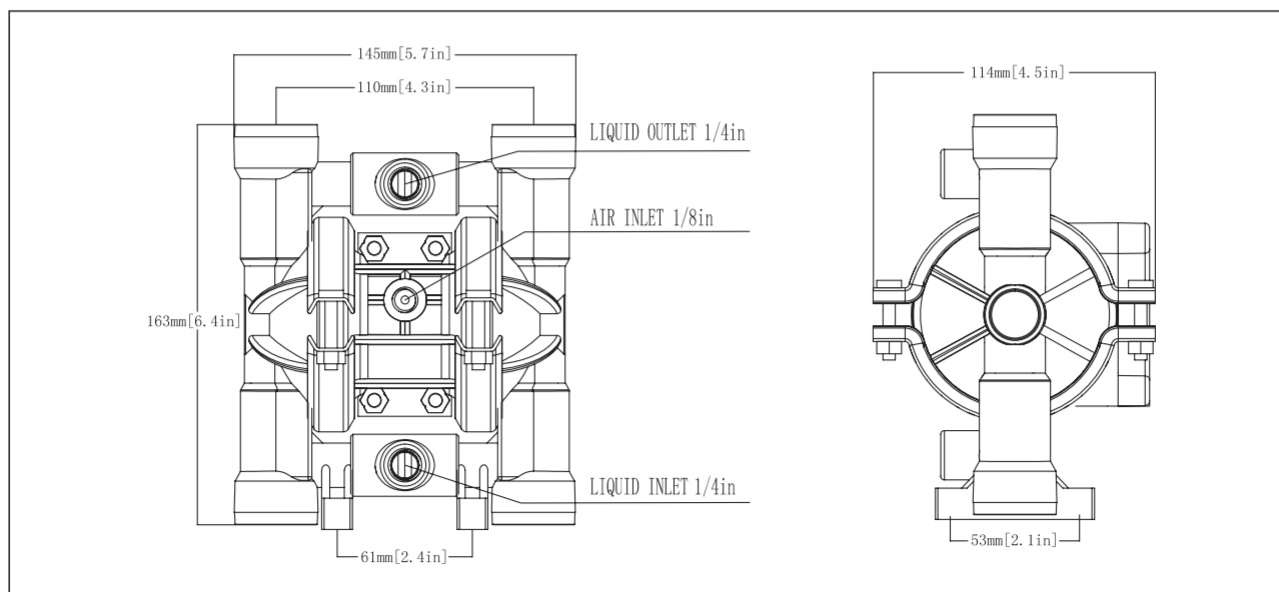
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 3m Wet 7m
Max. particle diameter	0.4mm
Suction and discharge size	1/4in /Npt
Air inlet size	1/8in /Npt
Max. flow rate	18 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	8.5scfm (0.24m³ /min)
Main body material	PP PVDF

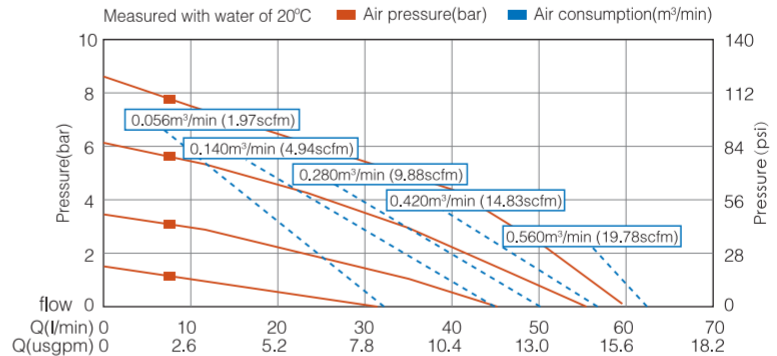
Installation size





VA15 VA20 Stainless steel pump

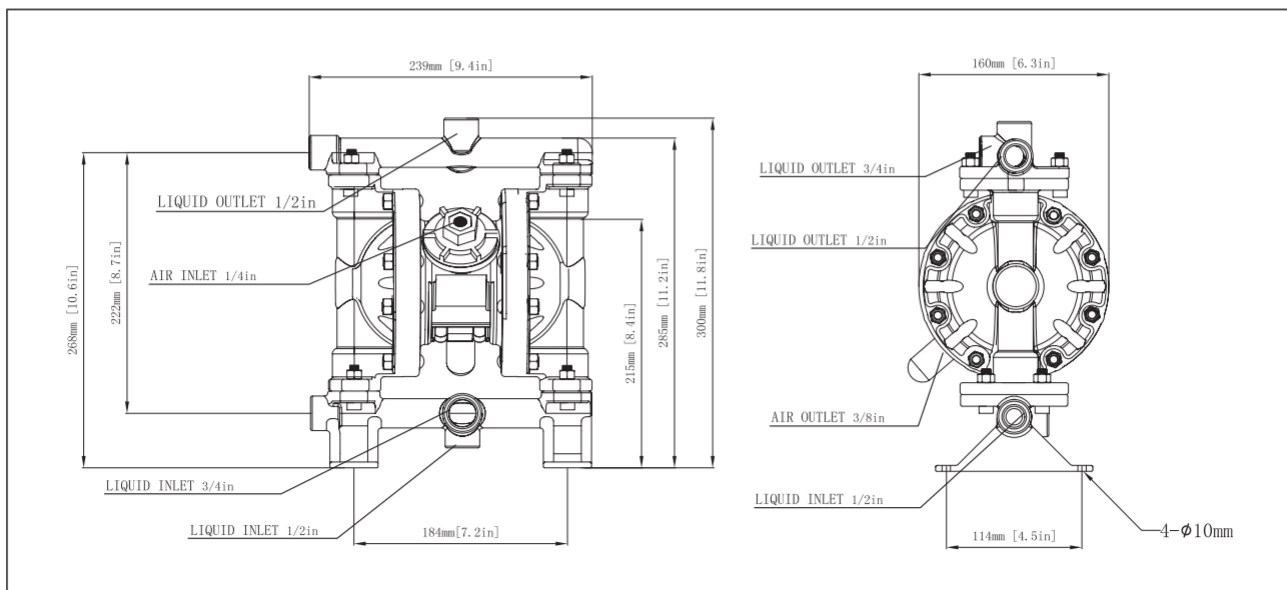
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 4m Wet 7.6m
Max. particle diameter	2.5mm
Suction and discharge size	1/2 3/4in /Npt
Air inlet size	1/4in
Max. flow rate	57 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	28scfm (0.672m³ /min)
Main body material	304SST 316SST

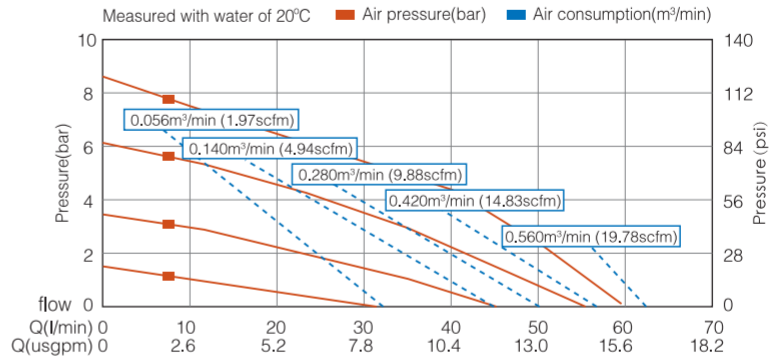
Installation size





VA15 VA20 Plastic pump

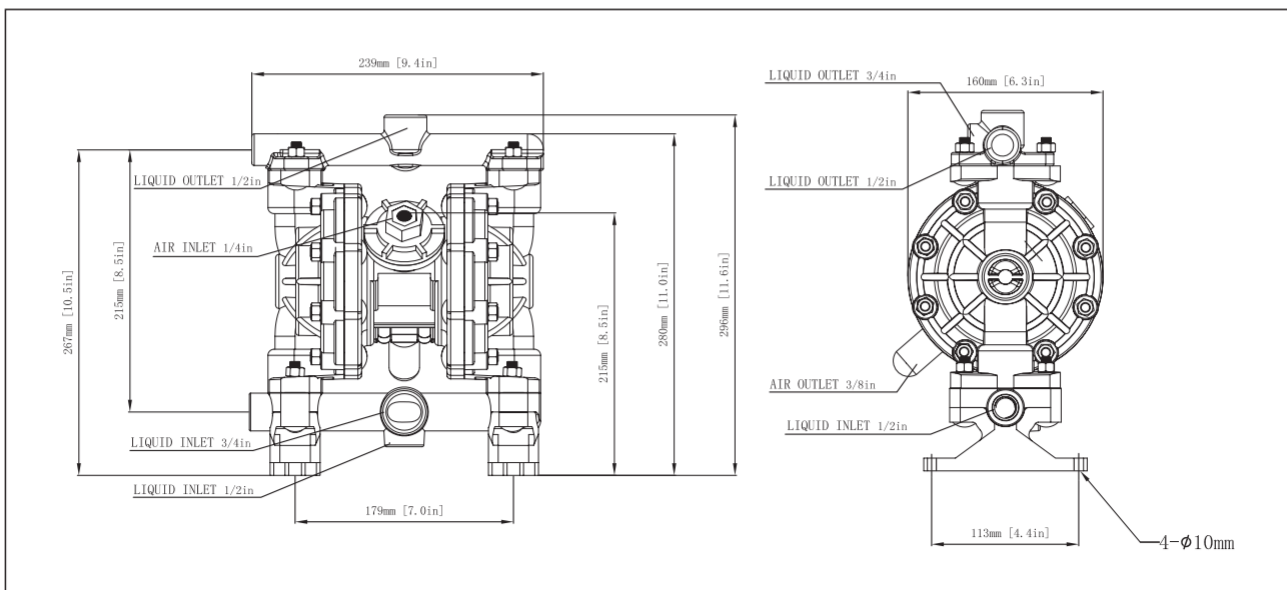
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 4m Wet 7.6m
Max. particle diameter	2.5mm
Suction and discharge size	1/2 3/4in /Npt
Air inlet size	1/4in
Max. flow rate	57 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	28scfm (0.672m³ /min)
Main body material	PP Acetal PVDF

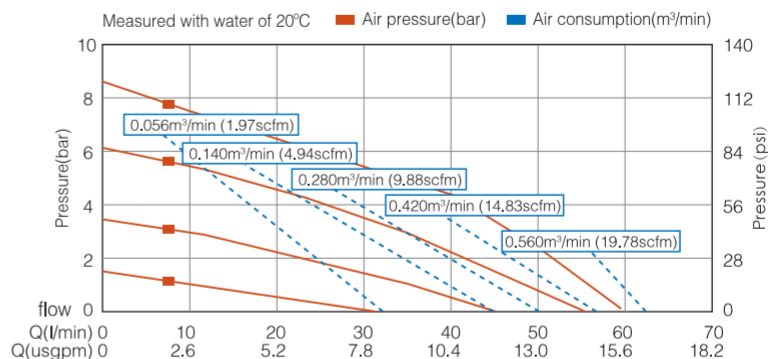
Installation size





VA15 VA20 Aluminum alloy pump

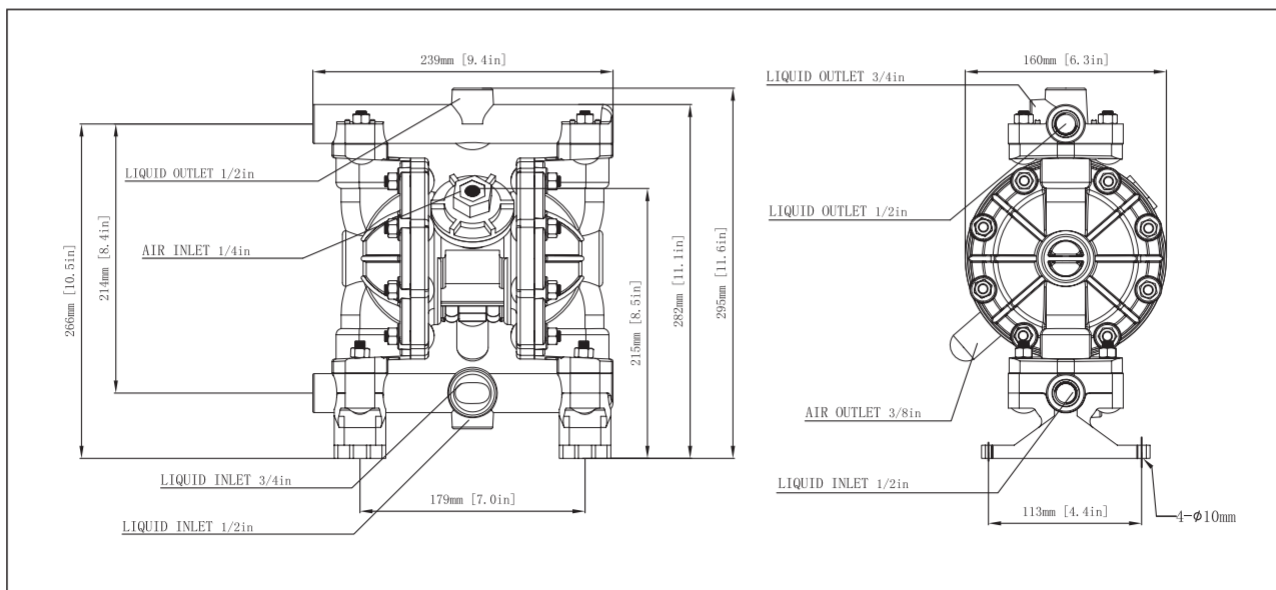
Performance curve:

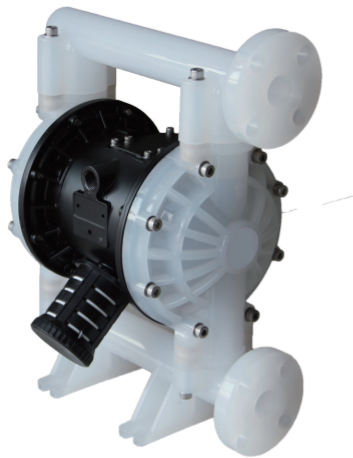


Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 4m Wet 7.6m
Max. particle diameter	2.5mm
Suction and discharge size	1/2 3/4in /Npt
Air inlet size	1/4in
Max. flow rate	57 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	28scfm (0.672m³ /min)
Main body material	Aluminum alloy

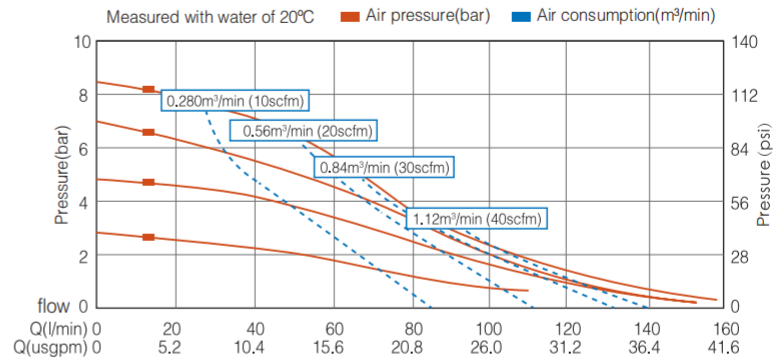
Installation size





VA25 Plastic pump

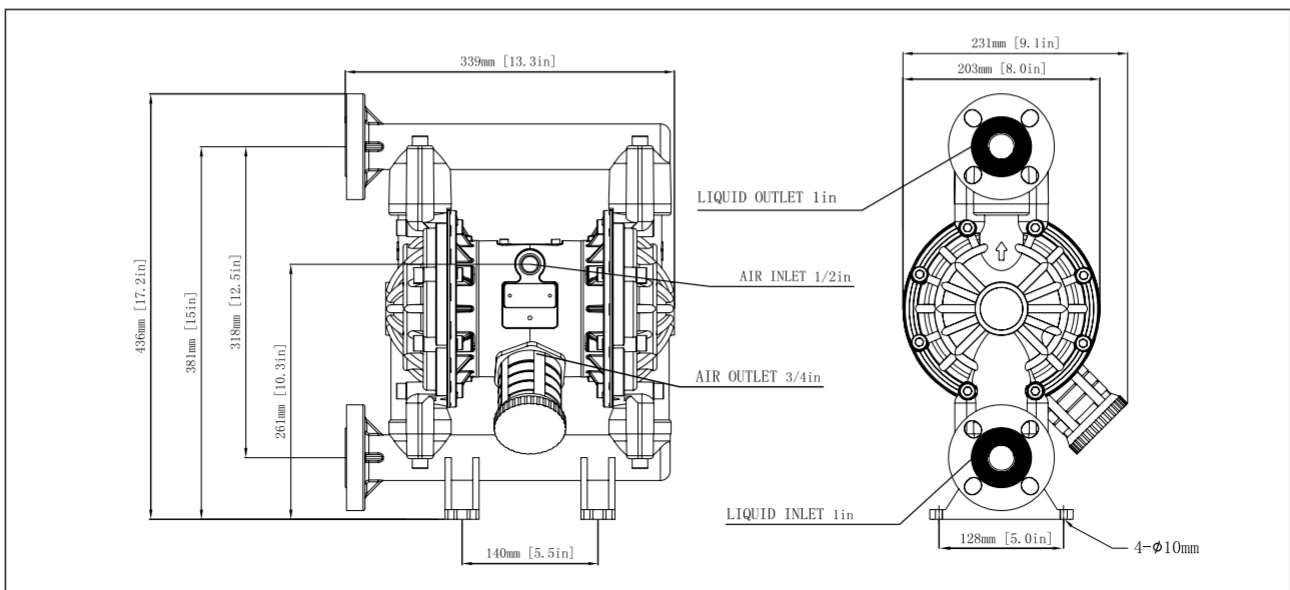
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 4m Wet 8m
Max. particle diameter	4mm
Suction and discharge size	1in /Npt /F
Air inlet size	1/2in
Max. flow rate	157 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	60scfm (1.7m³ /min)
Main body material	PP Acetal PVDF

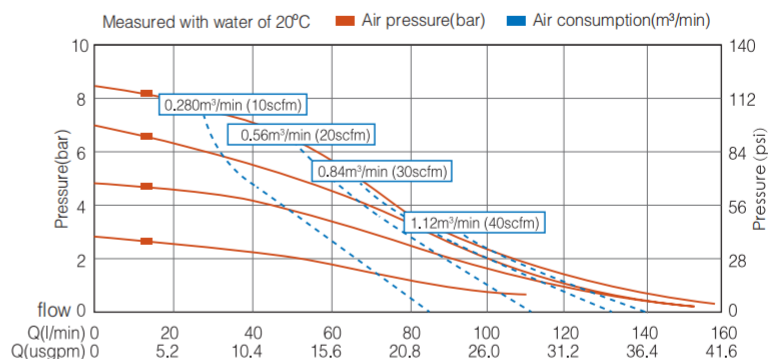
Installation size





VA25 Aluminum alloy pump

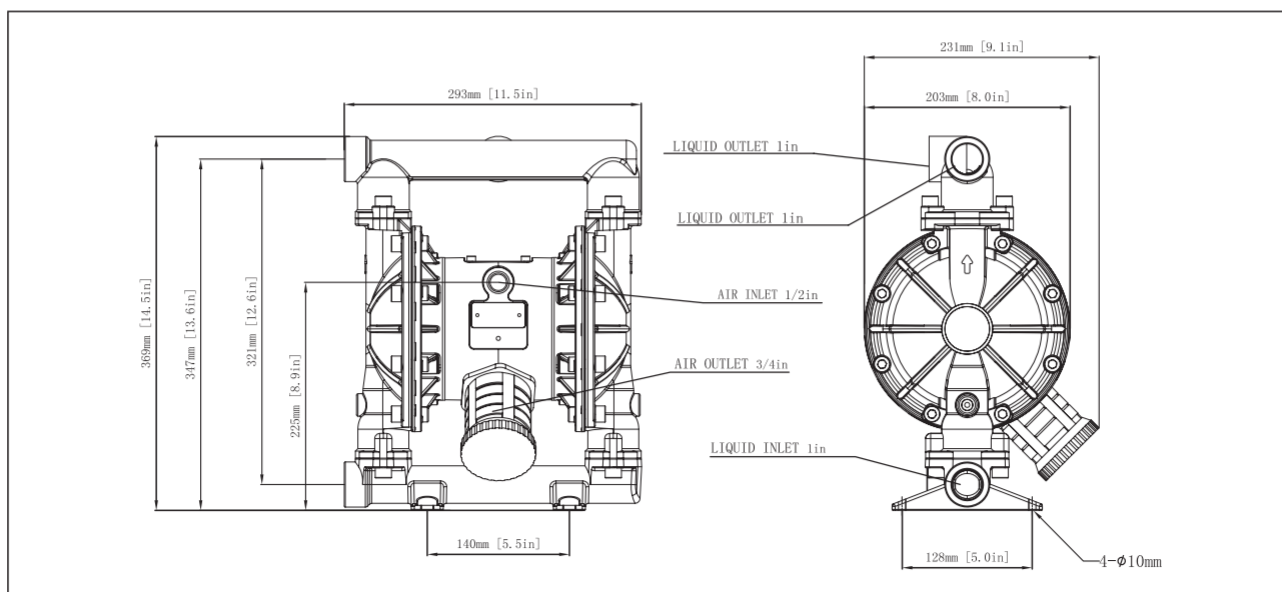
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 4m Wet 8m
Max. particle diameter	4mm
Suction and discharge size	1in /Npt /F
Air inlet size	1/2in
Max. flow rate	157 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	60scfm (1.7m³ /min)
Main body material	Aluminum alloy

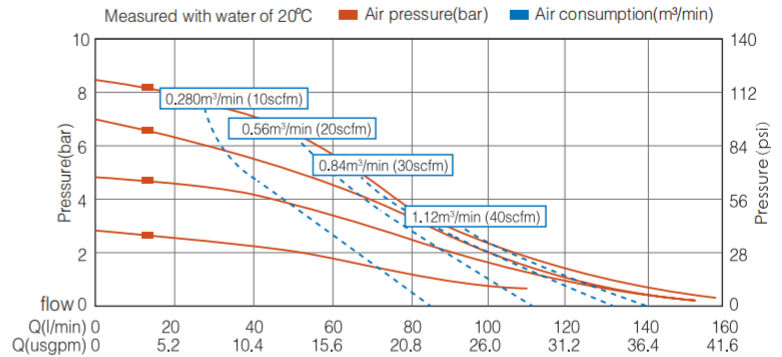
Installation size





VA25 Stainless steel pump

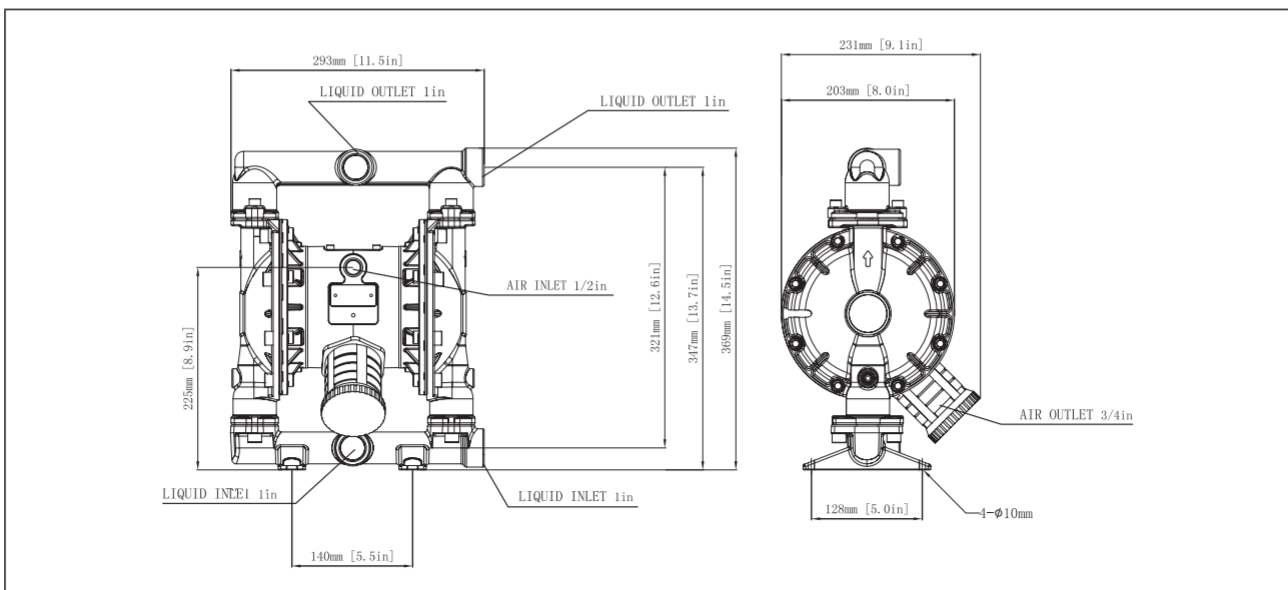
Performance curve:

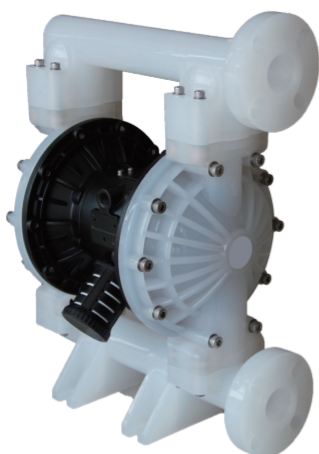


Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 4m Wet 8m
Max. particle diameter	4mm
Suction and discharge size	1in /Npt /F
Air inlet size	1/2in
Max. flow rate	157 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	60scfm (1.7m³ /min)
Main body material	304SST 316SST

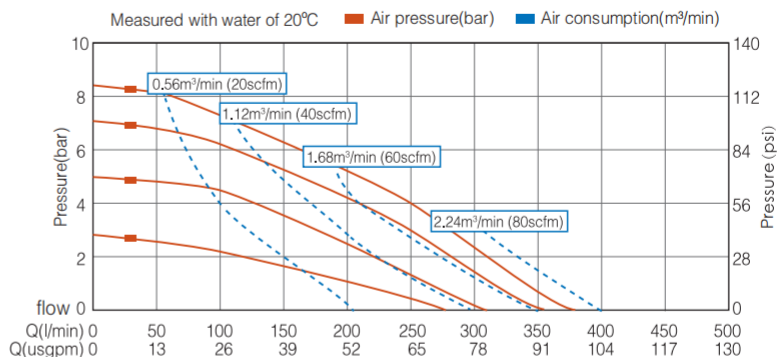
Installation size





VA40 Plastic pump

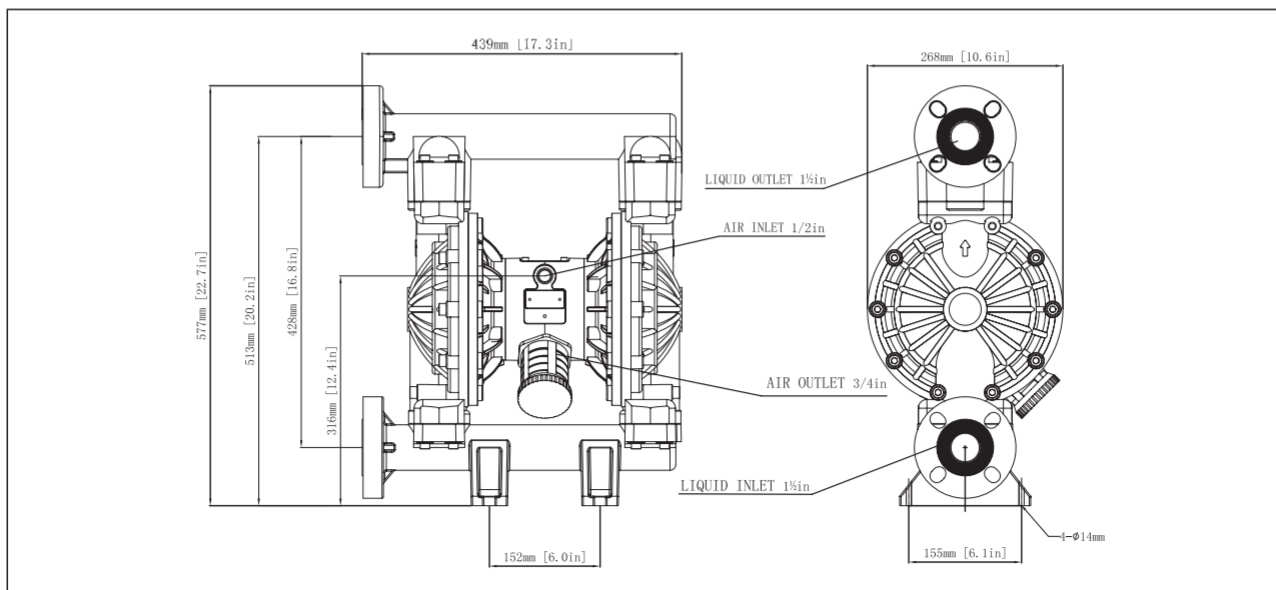
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 5m Wet 8m
Max. particle diameter	5mm
Suction and discharge size	1 1/2 in /Npt /F
Air inlet size	1/2in
Max. flow rate	358 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	125scfm (3.5m³ /min)
Main body material	PP Acetal PVDF

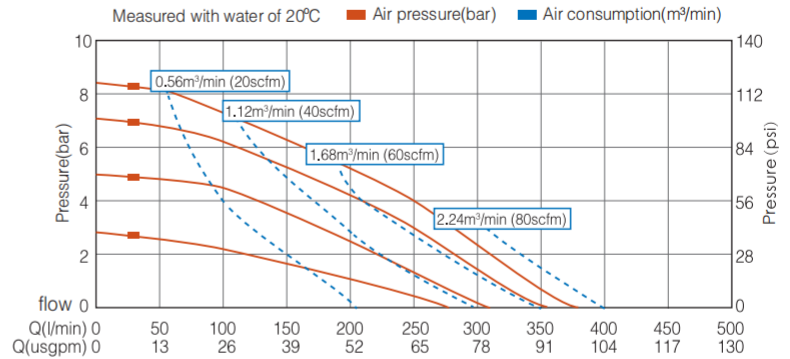
Installation size





VA40 Aluminum alloy pump

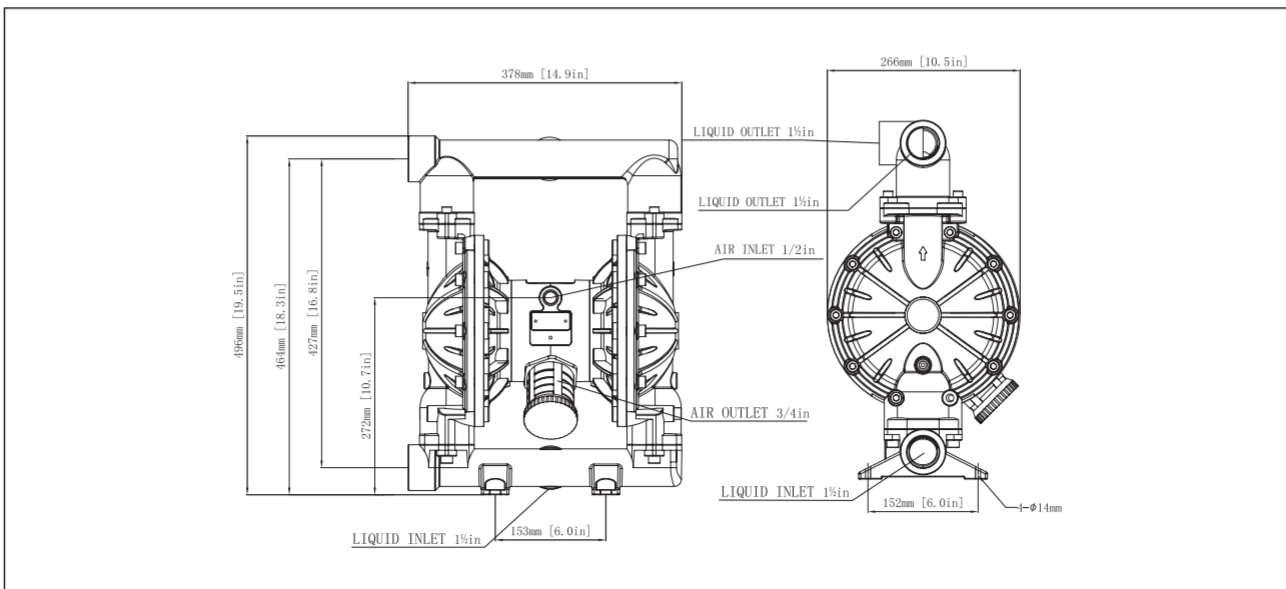
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 5m Wet 8m
Max. particle diameter	5mm
Suction and discharge size	1 1/2 in /Npt /F
Air inlet size	1/2in
Max. flow rate	358 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	125scfm (3.5m³ /min)
Main body material	Aluminum alloy

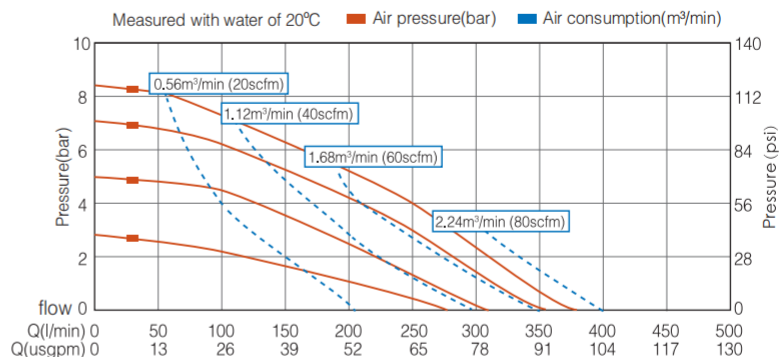
Installation size





VA40 Stainless steel pump

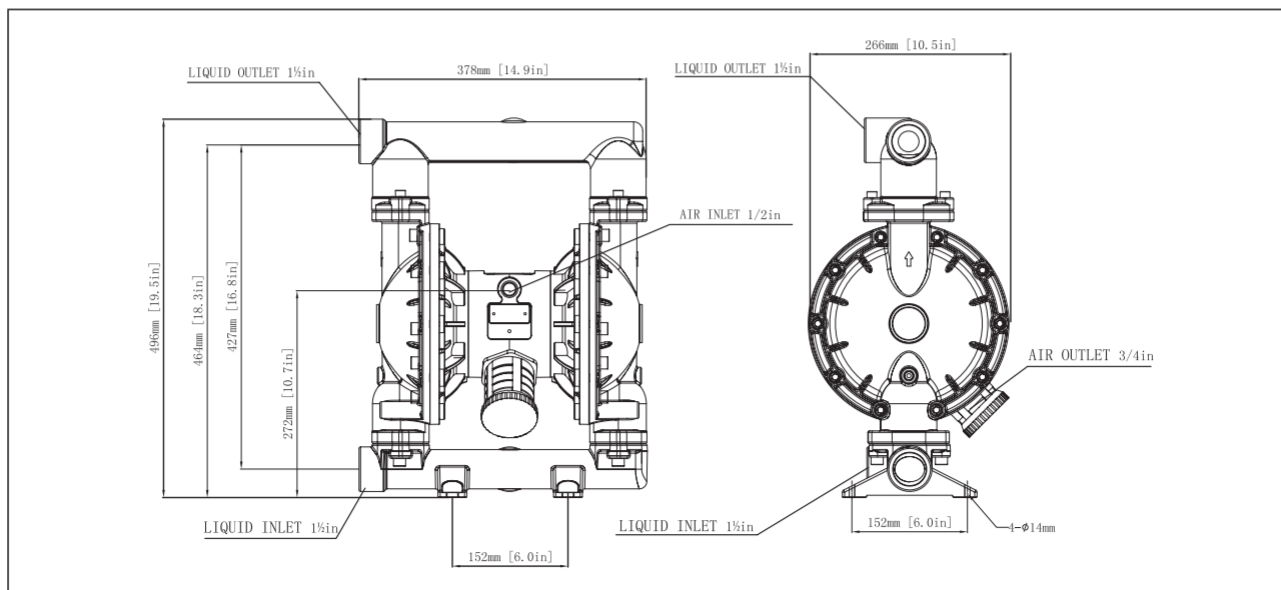
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 5m Wet 8m
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Max. air consumption	125scfm (3.5m³ /min)
Main body material	304SST 316SST

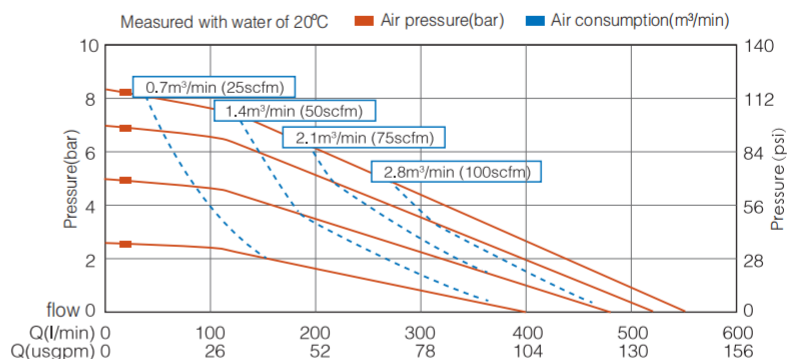
Installation size





VA50 Plastic pump

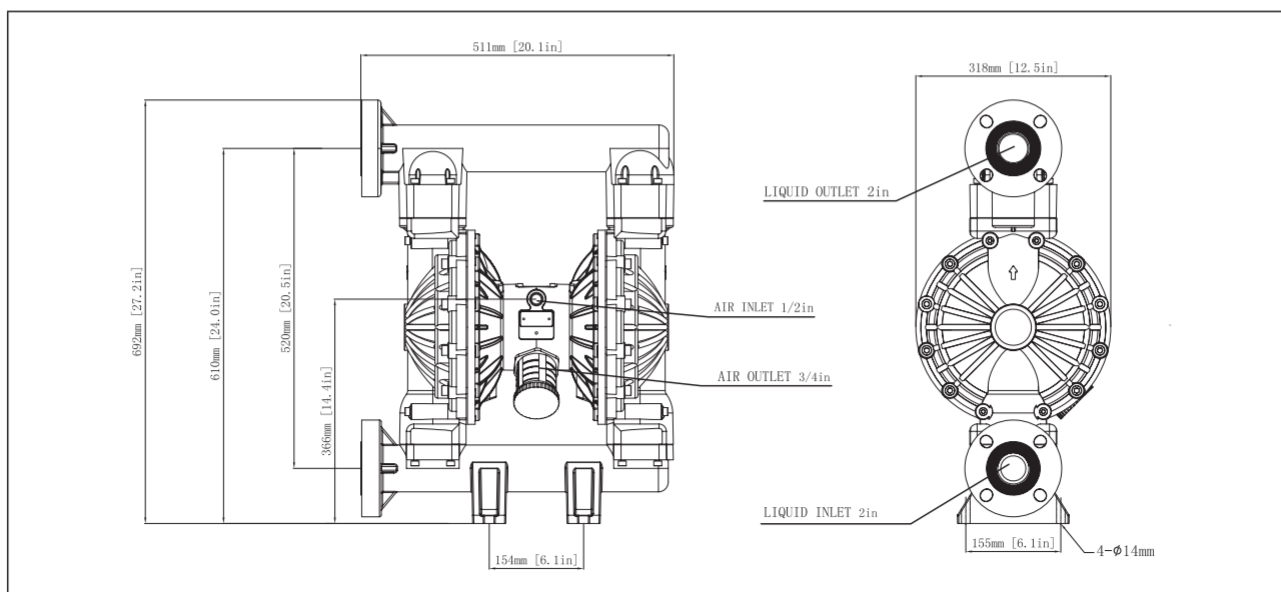
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 5m Wet 8m
Max. particle diameter	6mm
Suction and discharge size	2in /Npt /F
Air inlet size	1/2in
Max. flow rate	587 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	175scfm (4.9m³ /min)
Main body material	PP Acetal PVDF

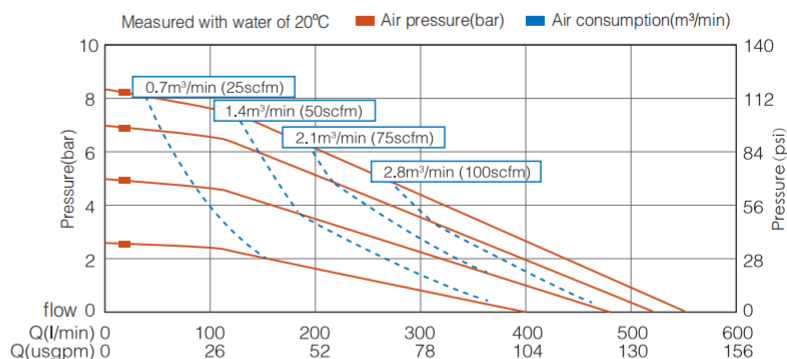
Installation size





VA50 Aluminum alloy pump

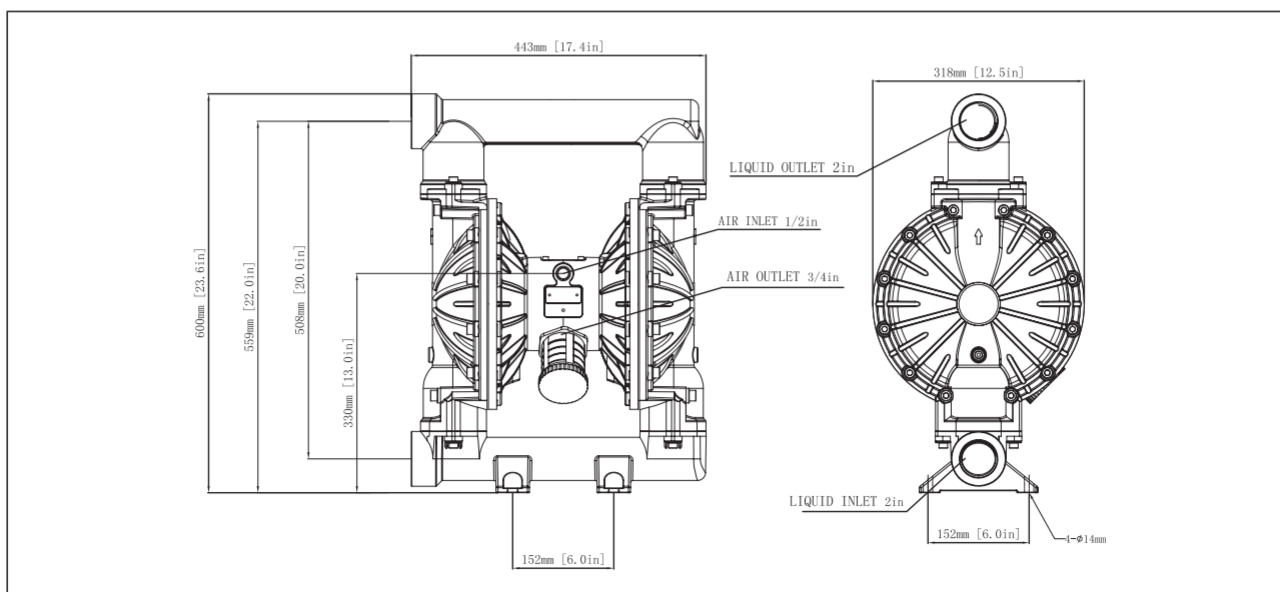
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 5m Wet 8m
Max. particle diameter	6mm
Suction and discharge size	2in /Npt /F
Air inlet size	1/2in
Max. flow rate	587 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	175scfm (4.9m³ /min)
Main body material	Aluminum alloy

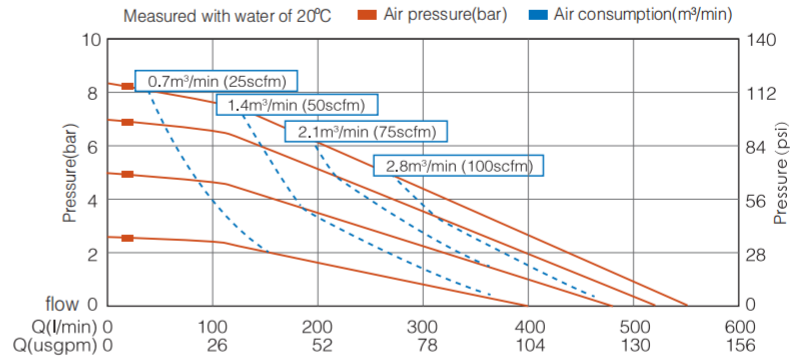
Installation size





VA50 Stainless steel pump

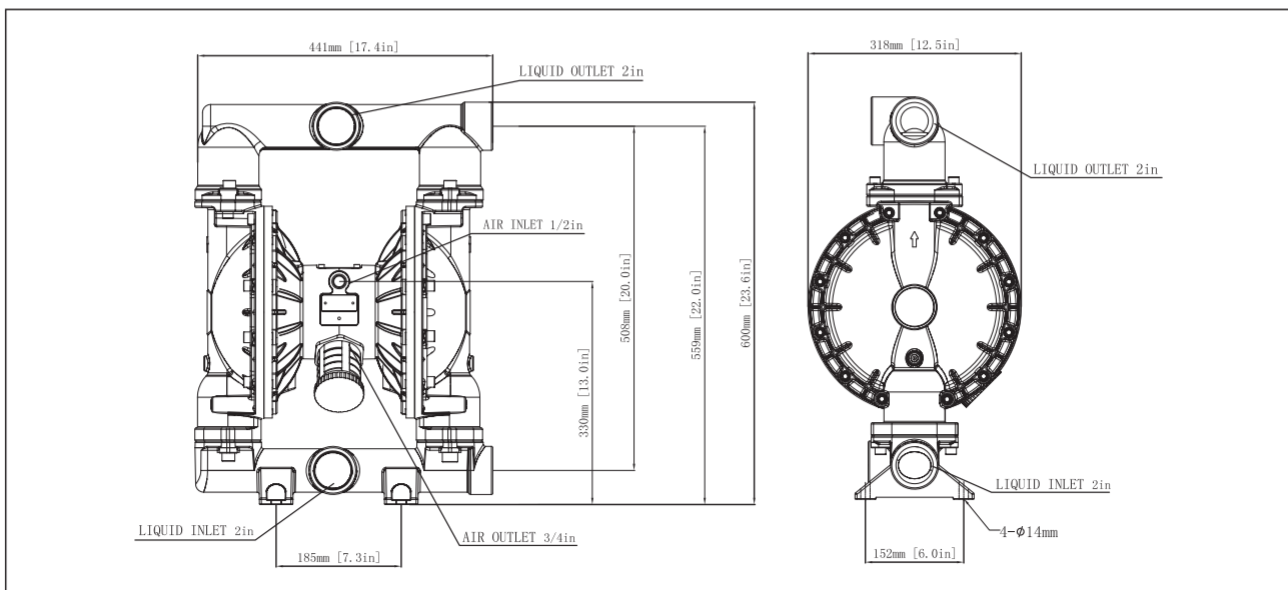
Performance curve:



Technical parameters

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Air inlet size	1/2in
Max. flow rate	587 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	175scfm (4.9m³ /min)
Main body material	304SST 316SST

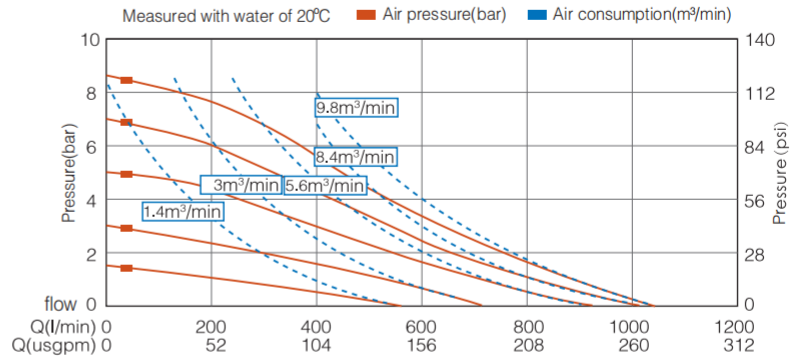
Installation size





VA80 Plastic pump

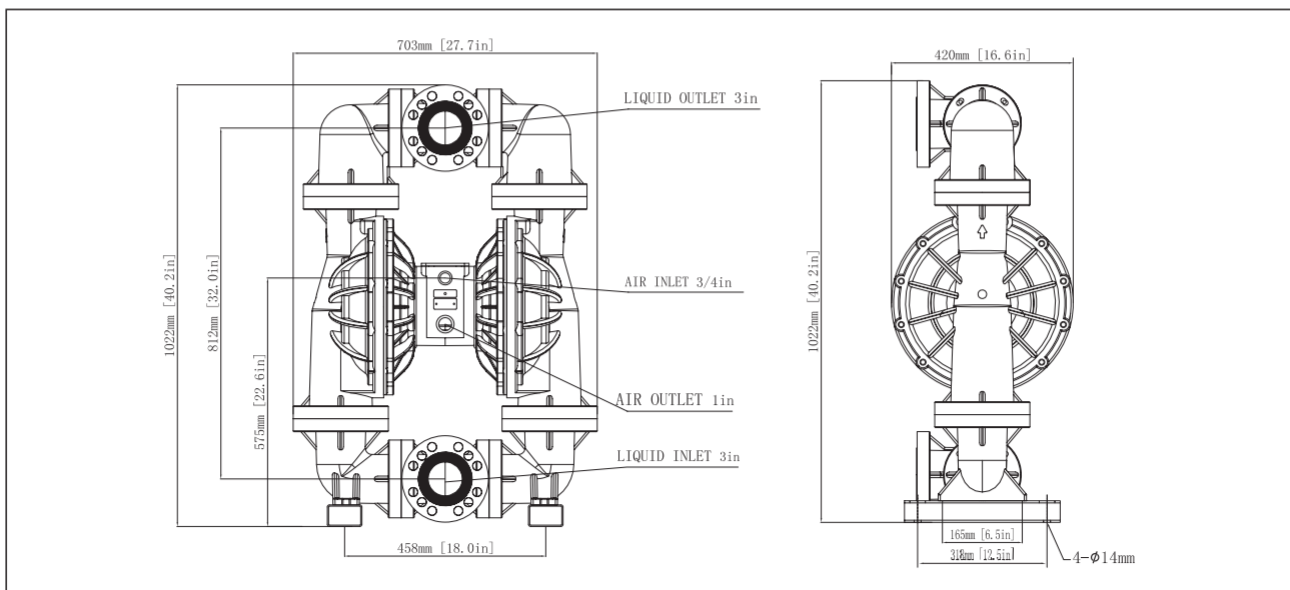
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 5m Wet 8m
Max. particle diameter	9.4mm
Suction and discharge size	3in /Npt /F
Air inlet size	3/4 in
Max. flow rate	1060 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	325scfm (9.1m³ /min)
Main body material	PP PVDF

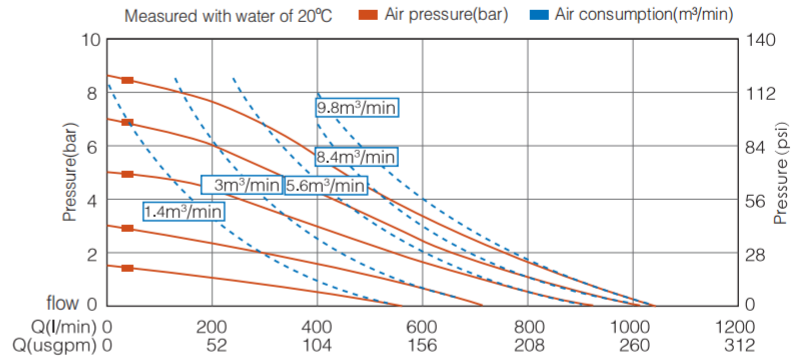
Installation size





VA80 Stainless steel pump

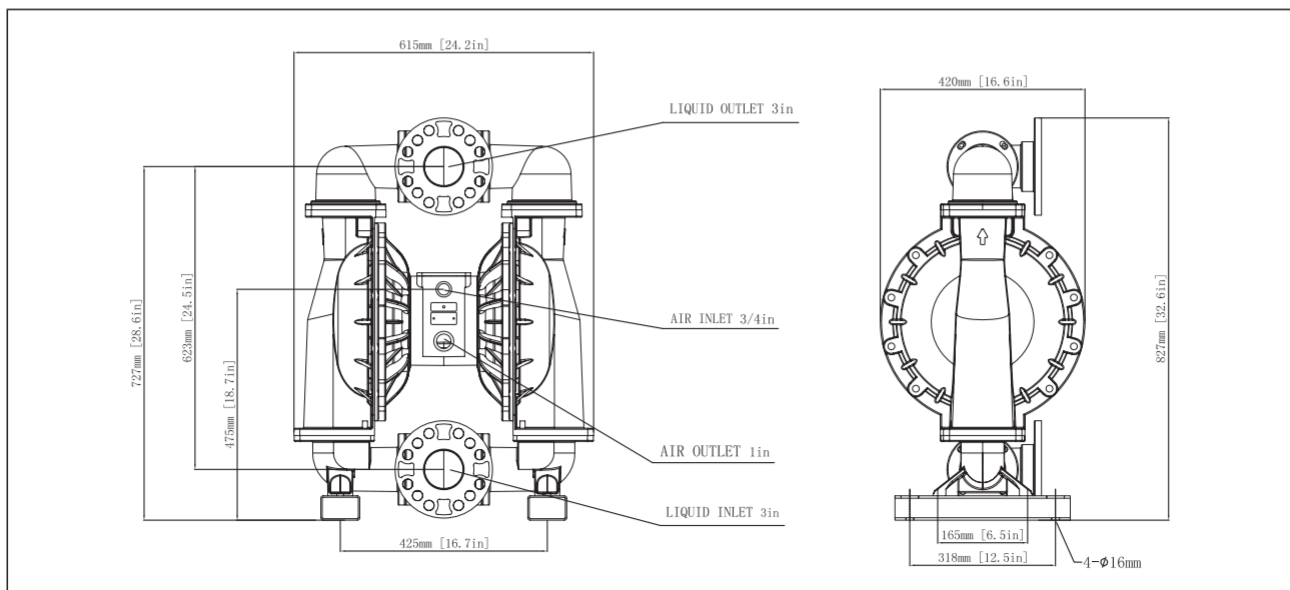
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 5m Wet 8m
Max. particle diameter	9.4mm
Suction and discharge size	3in /Npt /F
Air inlet size	3/4 in
Max. flow rate	1060 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	325scfm (9.1m³ /min)
Main body material	304SST 316SST

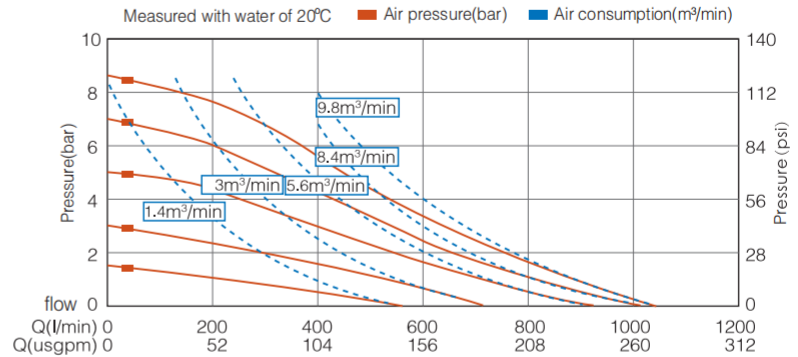
Installation size



VA80 Aluminum alloy pump



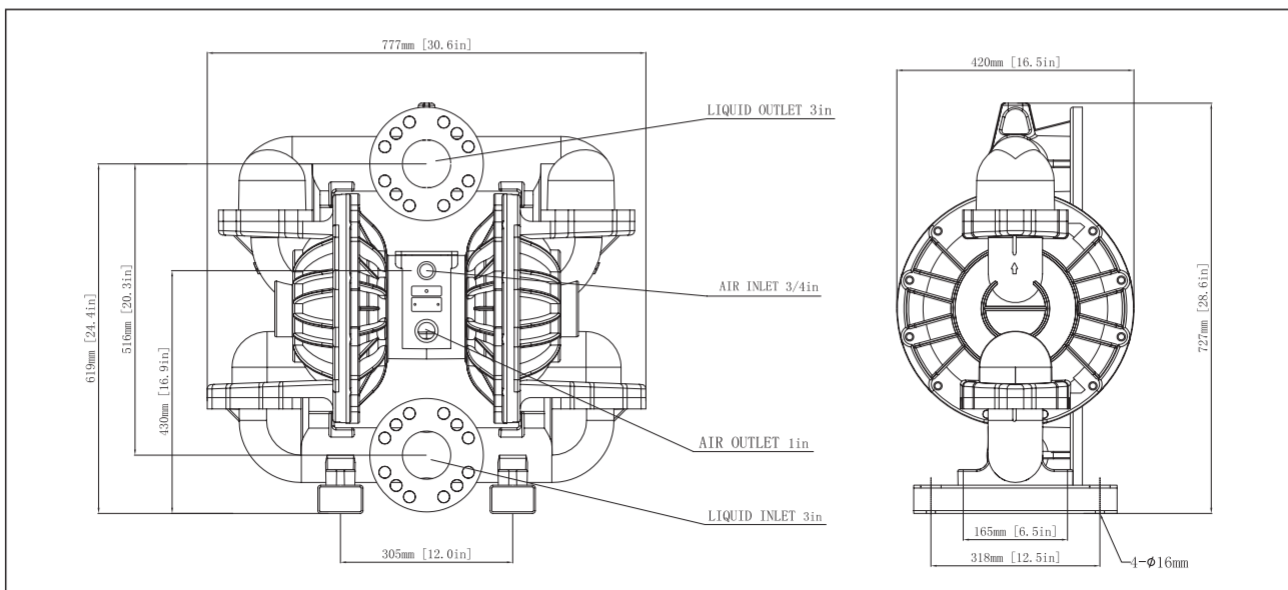
Performance curve:



Technical parameters

Max. Suction Lift Suction height changes with the different combinations of ball, seat and the diaphragm materials.	Dry 5m Wet 8m
Max. particle diameter	9.4mm
Suction and discharge size	3in /Npt /F
Air inlet size	3/4 in
Max. flow rate	1060 L/min
Max. head	84m
Max. air inlet pressure	8.4bar
Max. air consumption	325scfm (9.1m³ /min)
Main body material	Aluminum alloy

Installation size



Corrosive fluid parameter & Wetted parts of pump select

Wetted parts of pump Corrosive fluid	Aluminum	Stainless steel	Polypropylene	Aldelhyde Resin	Buna N	EPDM	VITON	Teflon	TPPE	Polyethylene elastomer
Asphalt	✓	✓	✓					✓		
Glycosylamine	✓	✓					✓	✓		✓
Acetylene	✓	✓		✓	✓			✓	✓	
Linseed oil		✓				✓		✓		
Acetone	✓	✓		✓		✓		✓		✓
Ethanol	✓	✓	✓		✓		✓	✓	✓	
Methanol	✓	✓	✓		✓			✓	✓	
Ammonia,	✓	✓	✓	✓		✓		✓		✓
Sulfurous acid solvent		✓					✓	✓	✓	
Whiskey		✓	✓			✓		✓		
Ethyl ether	✓	✓						✓		
Ethanol amine	✓	✓						✓		
Ethanol	✓	✓	✓	✓	✓		✓	✓	✓	✓
Glycol	✓	✓	✓	✓	✓	✓		✓	✓	✓
Liquefied petroleum gas										
Zinc chloride		✓	✓			✓		✓		✓
Chlorinated alkane(dry)		✓			✓	✓		✓		
Hydrogen chloride gas		✓					✓	✓		
Cupric chloride			✓	✓	✓	✓		✓	✓	
Sodium chloride		✓	✓	✓	✓	✓		✓	✓	
Nickel chloride			✓		✓	✓	✓	✓		
Barium chloride			✓	✓	✓	✓	✓	✓		
Magnesium chloride		✓	✓	✓	✓	✓	✓	✓		✓
Methylene chloride		✓						✓		
Chlorine		✓	✓	✓	✓	✓		✓	✓	✓
Chlorine(dry)							✓	✓		
Octane	✓	✓					✓	✓		
Oleic acid				✓				✓		
Gasoline (refined)	✓	✓		✓				✓	✓	
Gasoline (crude)	✓	✓		✓				✓	✓	
Sodium chloride							✓	✓		
Fruit juice		✓				✓		✓		
Sodium perborate		✓	✓	✓		✓	✓	✓		
Xylol/mixed xylol	✓	✓		✓			✓	✓		
Formic acid			✓					✓		
Volatile oil (boron oil)	✓	✓		✓				✓		
Citric acid		✓				✓	✓	✓	✓	
Grease	✓	✓			✓		✓	✓	✓	
Tar	✓	✓	✓		✓	✓	✓	✓	✓	
Glycol	✓	✓	✓	✓	✓		✓	✓		✓
Creosote	✓	✓			✓		✓	✓		
Cresylic acid		✓					✓	✓		

Wetted parts of pump Corrosive fluid	Aluminum	Stainless steel	Polypropylene	Aldelhyde Resin	Buna N	EPDM	VITON	Teflon	TPPE	Polyethylene elastomer
Chloroform(dry)		✓		✓			✓	✓		
Sodium silicate		✓	✓			✓		✓		
Corn oil	✓	✓	✓			✓		✓	✓	
Acetic acid	✓	✓				✓		✓		✓
Isopropyl acetate	✓	✓						✓		
Acetic acid isopropyl ester	✓	✓						✓		
Ethyl acetate	✓	✓		✓		✓		✓		
Calcium acetate				✓		✓		✓		
Butyl acetate	✓	✓						✓		
Cane sugar solution	✓	✓	✓	✓		✓		✓		
Beet	✓	✓	✓			✓		✓		
Oxygen	✓	✓			✓			✓		
Potassium cyanide		✓	✓	✓	✓	✓	✓	✓		✓
Sodium cyanide (thin)		✓	✓	✓	✓	✓	✓	✓		
Cyclohexane				✓			✓	✓	✓	
Oxalic acid		✓	✓		✓	✓		✓		
Silicone oil	✓	✓		✓	✓		✓	✓	✓	
Jet fuel	✓	✓		✓			✓	✓	✓	
Fatty acid	✓	✓					✓	✓		
Oilstone acid	✓	✓	✓				✓	✓	✓	
Nitric acid		✓						✓		
Aluminum nitrate		✓	✓	✓	✓	✓	✓	✓		
Ammonium nitrate			✓	✓	✓	✓	✓	✓		✓
Zinc nitrate		✓	✓			✓	✓	✓		
Potassium nitrate	✓	✓	✓	✓	✓	✓	✓	✓		✓
Calcium nitrate		✓	✓	✓	✓	✓	✓	✓		✓
Ferric nitrate		✓	✓		✓	✓	✓	✓		
Sodium nitrate	✓	✓	✓	✓		✓	✓	✓	✓	✓
Magnesium nitrate		✓	✓	✓	✓	✓	✓	✓		
Hydrated lime			✓		✓	✓	✓	✓		
Vegetable oil	✓	✓			✓	✓	✓	✓		
Calcium sulfite		✓	✓		✓		✓	✓		
Inscription acid potassium	✓	✓	✓		✓	✓	✓	✓		
Sodium bicarbonate	✓	✓	✓	✓	✓	✓	✓	✓		
Stearic acid		✓	✓				✓	✓		
Butyl stearate		✓		✓	✓			✓		
Vinegar		✓	✓			✓	✓	✓		
Mercury		✓	✓	✓	✓	✓	✓	✓	✓	
Ammonium hydroxide	✓	✓						✓		
Calcium hydroxide		✓	✓	✓	✓	✓	✓	✓		
Sodium hydroxide		✓	✓	✓		✓		✓		✓
Barium hydroxide		✓	✓	✓	✓	✓	✓	✓		✓

Corrosive fluid parameter & Wetted parts of pump select

Wetted parts of pump Corrosive fluid	Aluminium	Stainless steel	Polypropylene	Aldelhyde Resin	Buna N	EPDM	VITON	Teflon	TPPE	Polyethylene elastomer
Magnesium hydroxide	✓	✓	✓	✓		✓	✓	✓		
Hydrogen										
Gelatin	✓	✓	✓	✓	✓	✓		✓		
Carbonic acid (phenol)		✓					✓	✓		
Petroleum crude oil	✓	✓		✓				✓		
Refined oil	✓	✓		✓				✓		
Hydrofluoric acid										
Lime sulfuric acid		✓	✓			✓	✓	✓		
soap-suds		✓	✓	✓	✓	✓	✓	✓	✓	✓
Washing powder(synthetic)		✓	✓		✓	✓	✓	✓	✓	
Baking soda		✓			✓			✓		
Tar	✓	✓						✓		
Soybean oil	✓	✓		✓	✓	✓		✓		
Carbonate	✓	✓	✓	✓			✓	✓		
Sodium carbonate		✓			✓	✓		✓		
Magnesium carbonate	✓		✓	✓	✓		✓	✓		
Tannic acid (thin)	✓	✓	✓				✓	✓	✓	✓
Sodium thiosulfate	✓	✓	✓		✓	✓	✓	✓		
Diesel oil	✓	✓		✓	✓			✓		
Tetrafluoroethylene		✓		✓				✓		
Natural gas		✓								
Trichloroethylene		✓		✓			✓	✓		
Toluene	✓	✓		✓				✓		
Molasses	✓	✓	✓	✓				✓	✓	
kerosene	✓	✓		✓	✓		✓	✓	✓	
Crude gasoline	✓	✓		✓			✓	✓	✓	
Naphthalene		✓	✓	✓			✓	✓		
Naphthenic acid		✓						✓		
Gelatin	✓	✓	✓		✓		✓	✓	✓	
Methylamine nitrate		✓						✓		
Vinyl chloride (dry)		✓						✓		
Carbon disulfide		✓		✓			✓	✓		
Lactic acid	✓	✓	✓			✓	✓	✓		✓
Urea		✓	✓	✓			✓	✓		✓
Tetrachloroethylene		✓		✓			✓	✓		
Paraffin wax	✓	✓	✓	✓	✓	✓		✓		
Palmitic acid		✓	✓					✓		
White liquid (paper mill)		✓						✓		
Castor oil		✓				✓		✓		
Picric acid	✓	✓					✓	✓		
Beer		✓	✓			✓		✓		
Freon		✓		✓		✓	✓	✓		

Wetted parts of pump Corrosive fluid	Aluminium	Stainless steel	Polypropylene	Aldelhyde Resin	Buna N	EPDM	VITON	Teflon	TPPE	Polyethylene elastomer
Propane	✓	✓		✓	✓		✓	✓		
Propylene glycol	✓	✓	✓	✓	✓	✓	✓	✓		
Butane	✓	✓		✓	✓		✓	✓	✓	
Butyl alcohol	✓	✓	✓		✓		✓	✓		
Butyl ethylene	✓	✓		✓	✓			✓		
Glucose	✓	✓	✓			✓	✓	✓		
Fluoride aluminum (dry)	✓		✓	✓	✓		✓	✓		
Ethane	✓	✓		✓	✓		✓	✓	✓	
Benzene		✓		✓				✓		
Volatile oil		✓		✓	✓		✓	✓		
Formalin	✓	✓	✓	✓		✓	✓	✓		
Methanol	✓	✓	✓	✓		✓	✓	✓		✓
Boric acid	✓	✓	✓	✓	✓	✓	✓	✓		
Sodium borate		✓		✓	✓		✓	✓		
Milk	✓	✓	✓	✓		✓		✓		✓
Alum			✓		✓	✓		✓		
Anhydrous ammonia	✓	✓	✓			✓		✓		
Acetic anhydride		✓						✓		
Phthalic anhydride		✓						✓		
Methanol		✓	✓	✓	✓	✓		✓	✓	✓
Methane	✓	✓		✓	✓		✓	✓		
Toluene	✓	✓						✓		
Cottonseed oil		✓	✓			✓		✓	✓	
Lard	✓	✓					✓	✓		
Paint		✓		✓				✓		
Linolenic acid	✓	✓	✓					✓		
Ammonium phosphate			✓		✓	✓	✓	✓		✓
Sodium phosphate			✓	✓		✓	✓	✓		✓
Sodium sulfide	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Barium sulfide			✓	✓	✓	✓	✓	✓		
Aluminum sulfide		✓	✓	✓	✓	✓	✓	✓		✓
Ammonium sulphate		✓	✓	✓	✓	✓	✓	✓		✓
Potassium sulphate		✓	✓	✓	✓	✓	✓	✓		
Sodium sulphate		✓	✓	✓	✓	✓	✓	✓	✓	✓
Magnesium sulfate	✓	✓	✓	✓	✓	✓	✓	✓		✓
Zinc sulfate			✓		✓	✓		✓		✓
Ferrous sulfate			✓		✓	✓	✓	✓		
Rosin	✓	✓	✓	✓	✓	✓		✓		
Wine		✓	✓	✓	✓	✓		✓	✓	
Varnish	✓	✓					✓	✓		

Corrosive fluid and Wetted parts of pump Matching table

Corrosive fluid concentration (%)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Acetic Acid(Ambient)																				
Acetic Acid(Hot)																				
Acetic Acid(Boiling)																				
Chromic Acids(Conc)																				
Nitric Acid																				
Phosphoric Acid(Ambient)																				
Phosphoric Acid(Hot)																				
Phosphoric Acid(Boiling)																				
Potassium Hydroxide (<60℃)																				
Potassium Hydroxide (<85℃)																				
Sodium Hypochloride																				
Magnesium Hydroxide																				
Sodium Hydroxide																				
Hydrochloric Acid																				
Hydrochloric Acid(Boiling)																				
Hydrofluoric Acid(Ambient)																				
Hydrofluoric Acid(Boiling)																				
Hydrofluoric Acid(Conc)																				
Sulfuric Acid (<51.6℃)																				
Sulfuric Acid (>51.6℃<79.4℃)																				
Sulfuric Acid(Biling)																				



Polypropylene



Stainless steel



Kynar (PVDF)

The Main Application Areas Of Pneumatic Diaphragm Pump& The Suitable Fluid

- Tanker / Truck / Train Unloading
- Waste Water Treatment / Fluid Filtration
- Formulation
- Basic Transfer / Supply
- Packaging / Filling
- Batching / Blending
- System Flush
- Recirculation / Reclamation



water treatment



Environmental Industry



Sanitary



Paint/Ink



construction industry



Daily chemical industry



Mining



Chemical/ Pharmacy



The enterprise has been engaged in independent research and development since 2012. At present, it has possessed ten utility model patents, one appearance patent and two CE certificates. In addition, it is applying for three utility model patents and two invention patents, and plans to apply for more than 20 kinds of patents.

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