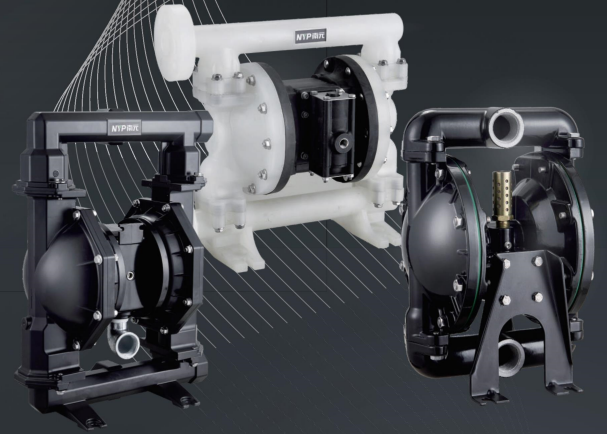


智慧箱泵集成供水行业引领者

 铭星供水设备  
MINGXING WATER SUPPLY



## PE / PA / PS Pneumatic diaphragm pump



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Mar. 2024 Edition

江苏铭星供水设备有限公司  
JIANGSU MINGXING WATER SUPPLY EQUIPMENT CO.,LTD



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## COMPANY PROFILE

### About Us

The company is product-oriented and has established long-term industry-university-research cooperation relationships with national key scientific research institutes. It has a provincial R&D platform, and has dozens of intellectual property rights such as invention patents, utility model patents, and copyrights. Many products such as floating pump station have been rated as provincial high-tech products and provincial new product and new technology appraisal. Editor-in-chief of "Selection and Installation of Prefabricated Tank Pump Integrated Fire Water Supply Pump Station" 18CS01, "Technical Regulations of Prefabricated Tank Pump Integrated Fire Water Supply Pump Station" CECS623-2019, and participated in the compilation of "Inverter Frequency Modulation" Selection and Installation of Quick Water Supply Equipment" 16S111, "Technical Regulations for the Application of Sewage Lifting Devices" CECS463-2017, "Practical Guidelines for Water Disposal Regulations" and other atlases, standards and technical documents.

Since its establishment in 2006, the company has unwaveringly adhered to product innovation, and has a broad customer base in government departments, hospitals, education and other fields.

The company has passed the three major certifications of ISO9001 quality management system, ISO14000 environmental management system and OHSAS occupational health and safety system. Fire protection products have passed 3C compulsory certification, established a perfect quality assurance system, and was rated as "AAA-level" credit unit in Jiangsu Province.

As a standard-setting enterprise for intelligent fire protection integrated pumping station, the company has an independent and mature software and hardware development team, independent research and development and production capacity is quite large, which has laid a solid foundation and strong guarantee for the intelligent fire protection industry.

The company's latest "smart fire protection" system, based on the design concept of smart city construction, applies a new generation of information technologies such as the Internet of Things, big data, cloud computing, mobile Internet, etc., which can fully realize the efficient operation of the fire alarm system and effectively improve the entire fire protection system. The efficiency of linkage and cooperation of the system truly achieves the perfect embodiment of prevention first and the combination of prevention and fire protection advocated by fire protection.



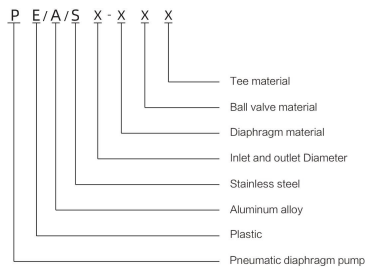


### Pneumatic diaphragm pump

#### Product characteristics

- The flow is spacious and the passing performance is good, allowing the maximum particle diameter to pass up to 9.5 millimeters. When pumping mud and impurities, little wear to the pump;
- Pneumatic diaphragm pump does not require irrigation water suction up to 4.2 meters, head up to 83 meters;
- Pneumatic diaphragm pump has no rotating parts, no shaft seal, diaphragm and other pumping medium and pump moving parts, workpiece medium completely separated, the conveying medium will not leak out, so pumping toxic, volatile or corrosive media, will not cause environmental pollution and harm personal safety;
- The head and flow can be adjusted without poles by the opening of the air valve (the air pressure is adjusted between 1–8.3bar);
- Can be immersed in the medium to work;
- No need to use electricity, flammable, explosive places safe and reliable;
- Pneumatic diaphragm pump simple structure, less wearing parts, the pump structure is simple, easy to install, maintenance, pump transport medium will not contact the gas path part, connecting rod and other moving parts, unlike other types of pumps due to rotor, piston, gear, blade and other parts wear and tear and performance gradually decline;
- Easy to use, reliable work, open and stop only need to simply open and close the gas valve, even if due to unexpected circumstances for a long time without medium operation or sudden stop of the pump will not be damaged, once overload, the pump will automatically stop, with self-protection function, when the load returns to normal, and can automatically start operation;
- Can transport sticky liquid;
- The shear force on the material is very low: how to suck in and spit out when working, so the agitation of the material is minimal, which is suitable for the transport of unstable substances.

#### Type definition



#### Working principle

Pneumatic diaphragm pumps use compressed air as a power source. Is a kind of pneumatic self-priming pump, in the domestic pump products is the latest kind of pump products, is a new type of conveying machinery, is a diaphragm reciprocating deformation caused by the volume change of the positive displacement pump, its working principle is similar to the plunger pump.

The outer edge of the diaphragm is connected by bolts to the surface of the bowl shaped outer edge of the pump body cavity cover and the motor body, located between the motor body and the liquid cavity cover, and the bowl shaped cavity of the motor body and the liquid cavity are separated into two parts. The cavity close to the motor body is the gas cavity, called the left and right gas cavity, and the cavity close to the liquid cavity cover is the liquid cavity, called the left and right liquid cavity. The two disc-shaped diaphragms are connected by diaphragm connecting rod to form a moving whole. Under the drive of high pressure gas, the diaphragm assembly moves, and changes the direction of high pressure gas flow through the secondary control ad-

When the diaphragm assembly moves to a certain position, the rigid diaphragm pad at the left diaphragm contacts with the left end face of the reversing valve stem and drives the reversing valve stem to move to the right until it reaches the limit position of the reversing valve slide. The change of the position of the reversing valve changes the state of gas inlet and outlet at the front end of the unbalanced valve chamber, and the position of the unbalanced valve chamber also changes. The change of the position of the unbalanced valve chamber changes the flow direction of the gas into and out of the air chamber. The air chamber on the right changes from intake to exhaust, the air chamber on the left changes from exhaust to intake, the liquid chamber on the right changes from drainage to intake, and the liquid chamber on the left changes from intake to drainage. The left chamber diaphragm moves to the left due to the gas entering and reversing, and the diaphragm connecting rod assembly begins a new pump cycle action.

With the appropriate movement of the reversing valve and the unbalanced valve secondary control valve, the gas wheel flow enters and exhausts the two gas chambers, and the liquid enters and exhausts the two liquid body chambers in turn, and the pneumatic diaphragm pump produces non-stop reciprocating motion.

#### Code definition

Motor body material	Inlet and outlet Diameter	Diaphragm material	Ball valve material	Tee material
A= aluminum alloy	01=1/4"	B= nitrile rubber	B= nitrile rubber	A= aluminum alloy
E= ethylene propylene rubber	05=1/2"	E= ethylene propylene rubber	E= ethylene propylene rubber	B= nitrile rubber
S= stainless steel	10=1"	T= polytetrafluoroethylene	T= polytetrafluoroethylene	C= carbon steel
	15=1-1/2"	G= Elastoplastics	R= neoprene	D= acetal
	20=2"	R= neoprene	S= stainless steel	H= Hastelloy alloy
	30=3"	M= rubber	M= rubber	K= polyvinylidene fluoride
		V= fluorine rubber	U= polyurethane	L=316 stainless-steel
			V= fluorine rubber	P= polypropylene
				M= rubber

#### Application fields



Water treatment : lime slurry, soft sediment, sewage, chemicals, waste water



Petrochemical : crude oil, heavy oil, grease, mud, sludge, etc



Petrochemical : coal slurry, magma, mud, mortar, explosive slurry, lubricating oil, etc



Pharmaceutical : solvent, plant refining liquid, ointment, plasma and other pharmaceutical liquid



Construction : cement paste, ceramic tile binder, rock paste, ceiling paint, etc



Metallurgy : casting and dyeing; Metal slurry, carbide slurry, dust washing slurry



Chemical industry : acid, base, agent, suspended matter, dispersion system



Coating industry : resin, solvent, colorant, paint, etc



Food industry : liquid semi-solid, chocolate, syrup, vegetable oil, soybean oil, honey, etc



Paper industry : binder, resin, paint, ink, pigment, hydrogen peroxide, etc



Automotive industry : polishing emulsions, coolants, automotive primers, oil emulsion paints, paints, etc



Nuclear Power : pipeline system, nuclear island lubrication system and conventional island wastewater treatment



Daily chemical : detergent, emulsion, emulsion, hand cream, surface activator



Ceramic : slurry, ceramic slurry, lime slurry, clay slurry



Beverage industry : yeast, syrup, wine, juice, corn pulp, etc



Electronic plating : solution, cleaning solution, sulfuric acid, nitric acid, waste liquid, corrosive acid



Furniture : binder, varnish, white wood glue, epoxy resin, starch binder



New energy : material output, sewage discharge, solid-liquid separation



## Selection guide

## • Pump body material selection guide

Aluminum alloy	Medium resistance to chemical corrosion, Medium abrasion resistance; Cannot be used for halogenated hydrocarbons;
polypropylene	Good chemical resistance, Medium abrasion resistance; Good versatility, especially suitable for ordinary acids and bases;
Stainless steel	Excellent corrosion resistance and abrasion resistance; Suitable for waterborne coatings, viscous fluids;

## • Diaphragm, ball valve, ball seat material selection guide

Nitrile butadiene rubber (NBR)	Widely used in gasoline and other oil products, suitable for normal temperature use; Not suitable for strong solvents and chemical media, suitable for gasoline fluids; Food grade material.	-12°C至82°C
Ethylene-propylene rubber	Wear resistance, aging resistance, ozone resistance and common acid and alkali.	51°C至138°C
Polytetrafluoroethylene (PTFE)	Suitable for corrosive or toxic media, high temperature resistance, poor abrasion resistance; Very suitable for solvent transport, corrosion resistance is very good; In addition to molten lithium metal, potassium, sodium, chlorine trifluoride, high temperature oxygen trifluoride, high sulfur rate of liquid fluorine, almost all chemical media (including concentrated nitric acid and aqua Regis); Food grade material.	4°C至107°C
Thermoplastic rubber	Thermoplastic rubber has good wear resistance, abrasion resistance is better than polyether rubber, and chemical resistance is the same as nitrile rubber.	-29°C至82°C
Polypropylene (PP)	Good chemical resistance, medium abrasion resistance; Good versatility, especially suitable for ordinary acids and bases.	2°C至79°C
Neoprene rubber (CR)	Suitable for whisky, wine, beer and natural gas and other media, commonly known as "universal polymer"; Suitable for animal and plant oils, medium chemical media, fats and greases Not applicable to strong oxidizing acids, esters, ketones, halogenated aromatic hydrocarbons and nitro hydrocarbons; Good toughness; The wear resistance is 30% higher than that of nitrile rubber.	-18°C至93°C
Polyvinylidene fluoride (PVDF)	Good chemical resistance, extrusion resistance, abrasion resistance, high temperature resistance; Excellent resistance to strong acid and alkali corrosion.	-12°C至9°C
Mountain rubber	Good abrasion resistance, chemical resistance and heat resistance; Suitable for ordinary acids, bases, Not applicable to solvents and hydrocarbons; Often replace EPDM (EPDM/EPR) or binary EPR; Food grade material.	-40°C至107°C
Polyurethane (PU)	Good wear resistance; Good elasticity, high hardness, oil resistance, solvent resistance; Good cold resistance; Good resistance to oxygen, ozone and ultraviolet radiation; Poor water resistance, no acid and alkali resistance, long-term interaction with water will occur hydrolysis.	-20°C至120°C
Fluor rubber (FKM)	Excellent corrosion resistance, resistance to all kinds of acids (including oxidizing acids of medium concentration), alkali, salt, petroleum products, hydrocarbons, etc. Lead-free fuel resistance; Food grade.	-40°C至170°C
Acetal	Good solvent resistance, abrasion resistance, excellent fatigue resistance (can withstand extreme fatigue); Can be grounded when conveying flammable materials, Not suitable for transporting acids or bases.	4.4°C至65.5°C

3



Pneumatic diaphragm pump

## Product range

## • Plastic pneumatic diaphragm pump product range

Model	1/4" Plastic pump	1/2" Plastic pump	1" Plastic pump	1-1/2" Plastic pump	2" Plastic pump
Inlet/outlet Dia	NPT1/4	NPT1/2	PN10/DN25	PN10/DN40	PN10/DN50
Air intake NPT	1/4	1/4	1/4	1/2	3/4
Exhaust NPT	/	/	3/4	3/4	1-1/2
Maximum flow rate (m <sup>3</sup> /h)	1.2	3.27	12	27.9	41.76
Max flow rate(feed inlet) LPM	20	54.5	200	465	696
Maximum discharge pressure (bar)	8.6	6.9	8.3	8.3	8.3
Maximum intake pressure (bar)	8.6	6.9	8.3	8.3	8.3
Maximum feed pressure (bar)	0.69	0.69	0.69	0.69	0.69
Pump body material	polypropylene	polypropylene	polypropylene	polypropylene	polypropylene
Maximum solid content (mm)	1.66	2.4	3.2	6.4	6.4
Maximum dry suction height (m)	4.6	4.5	5.7	4.2	4.2
Pump weight (kg)	1.3	2.9	9	19.3	38.7

## • Metal pneumatic diaphragm pump product range

Model	1/4" metal pump	1/2" metal pump	1" metal pump	1-1/2" metal pump	2" metal pump	3" metal pump
Inlet/outlet Dia	NPT1/4	NPT1/2	NPT1	NPT1-1/2	NPT2	NPT3
Air intake NPT	1/4	1/4	1/4	1/2	3/4	3/4
Exhaust NPT	/	3/4	3/8	3/4	1-1/2	1-1/2
Maximum flow rate (m <sup>3</sup> /h)	1	2.7	7.98	27.9	39.06	62.46
Max flow rate(feed inlet) LPM	16.6	45.4	133	465	651	1041
Maximum discharge pressure (bar)	8.6	6.9	8.3	8.3	8.3	8.3
Maximum intake pressure (bar)	8.6	6.9	8.3	8.3	8.3	8.3
Maximum feed pressure (bar)	0.69	0.69	0.69	0.69	0.69	0.69
Pump body material	aluminium alloy Stainless Steel	aluminium alloy Stainless Steel	aluminium alloy Stainless Steel	aluminium alloy Stainless Steel	aluminium alloy Stainless Steel	aluminium alloy Stainless Steel
Maximum solid content (mm)	2	2.4	3.2	6.4	6.4	9.5
Maximum dry suction height (m)	4.6	4.5	6.1	4.2	4.2	4.2
Pump weight (kg)	2.9	4.7	8.6	17.1	29	51.3

4

Pneumatic diaphragm pump





PE10 (1" plastic pneumatic diaphragm pump)

Product characteristics

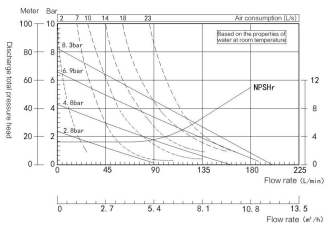
- The PE10 plastic pneumatic diaphragm pump is a versatile solution for many applications, often used in the chemical, general industrial and water/wastewater treatment markets for conveying, filling, recycling, batching and other applications.
- The pump can flow up to 12m<sup>3</sup>/h and is available in a variety of different materials and calibers

Performance parameter

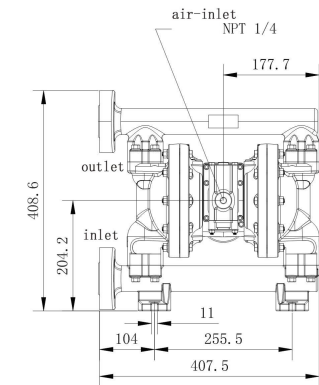
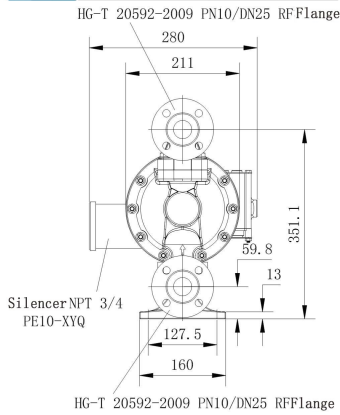
ratio	1:1
Maximum flow rate	12m <sup>3</sup> /h
Capacity per cycle	0.64 L
Air inlet	NPT1/4
Liquid inlet/outlet	PN10/ DN25
Maximum working pressure	8.3bar
The maximum suspended solid diameter can be passed	3.2mm
weight	9KG
Maximum dry suction height	5.7m
Noise level	70PSI 60 circle/min 79.7db (A)
Silencer	PE10-XYQ

P	X	X	X	X	X	X
Series	Body material	Inlet and outlet Diameter	Diaphragm material	Ball valve material	Tee material	
PE10	E=Polypropylene	10 (PN10/ DN25)	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber V= fluorene rubber E= ethylene-propylene rubber R= neoprene	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber L= 316 stainless steel U= polyurethane E= polyethylene rubber R= neoprene	D= acetal K= polyvinylidene fluoride P= polypropylene L= 316 stainless steel	

Performance curve



Installation dimension diagram



Product characteristics

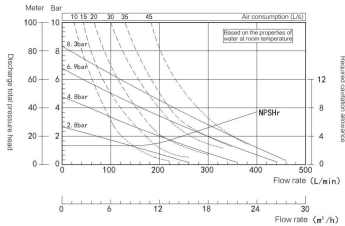
- The PE15 plastic pneumatic diaphragm pump is a versatile solution for many applications, often used in the chemical, general industrial and water/wastewater treatment markets for conveying, filling, recycling, batching and other applications.
- The pump can flow up to 12m<sup>3</sup>/h and is available in a variety of different materials and calibers

Performance parameter

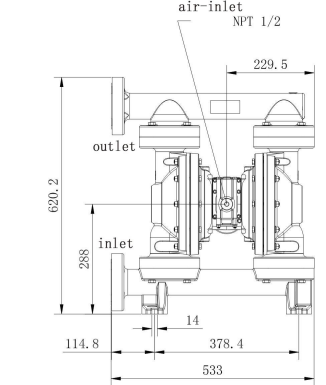
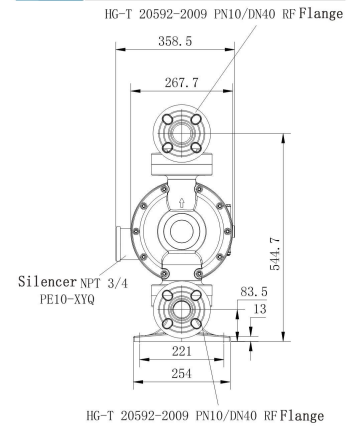
ratio	1:1
Maximum flow rate	27.9m <sup>3</sup> /h
Capacity per cycle	2.34 L
Air inlet	NPT1/2
Liquid inlet/outlet	PN10/ DN40
Maximum working pressure	8.3bar
The maximum suspended solid diameter can be passed	6.4mm
weight	19.3 KG
Maximum dry suction height	4.2m
Noise level	70PSI 60 circle/min 81.0db (A)
Silencer	PE10-XYQ

P	X	X	X	X	X	X
Series	Body material	Inlet and outlet Diameter	Diaphragm material	Ball valve material	Tee material	
PE15	E=Polypropylene	15 (PN10/ DN40)	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber V= fluorene rubber E= ethylene-propylene rubber R= neoprene	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber L= 316 stainless steel U= polyurethane E= polyethylene rubber R= neoprene	K= polyvinylidene fluoride P= polypropylene L= 316 stainless steel	

Performance curve



Installation dimension diagram





PE20 (2" plastic pneumatic diaphragm pump)

Product characteristics

• The PE20 plastic pneumatic diaphragm pump is a versatile solution for many applications, often used in the chemical, general industrial and water/wastewater treatment markets for conveying, filling, recycling, batching and other applications.

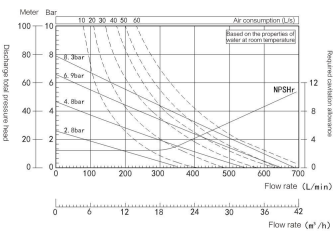
• The pump can flow up to 41.76m<sup>3</sup>/h and is available in a variety of different materials and calibers

Performance parameter

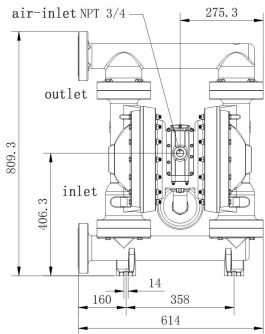
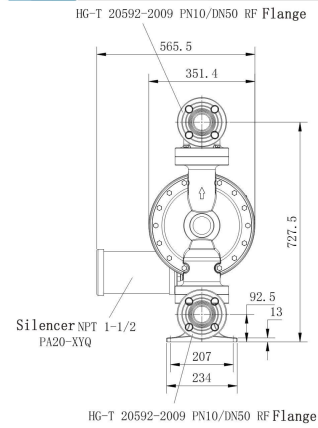
ratio	1:1
Maximum flow rate	41.76m <sup>3</sup> /h
Capacity per cycle	5.3 L
Air inlet	NPT3/4
Liquid inlet/outlet	PN10/ DN50
Maximum working pressure	8.3bar
The maximum suspended solid diameter can be passed	6.4mm
weight	38.7 KG
Maximum dry suction height	4.2m
Noise level	70PSI 60 circle/min 85db (A)
Silencer	PA20-XYQ

Series	X	X	X	X	X	X
Body material	Diaphragm material	Ball valve material	Tee material			
E=Polypropylene	M= rubber	M= rubber	K= polyvinylidene fluoride			
T= Teflon / polytetrafluoroethylene	T= Teflon / polytetrafluoroethylene	T= Teflon / polytetrafluoroethylene	P= polypropylene			
B= nitrile rubber	B= nitrile rubber	B= nitrile rubber	L= 316 stainless steel			
V= silicone rubber	V= silicone rubber	V= silicone rubber				
E= propylene rubber	U= polyurethane	U= polyurethane				
R= neoprene	R= neoprene	R= neoprene				

Performance curve



Installation dimension diagram



Product characteristics

• The PAPS01 metal diaphragm pump is a type of compact pump that provides superior performance in a small, compact form factor.

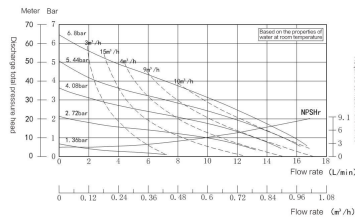
• Pumps can flow up to 1m<sup>3</sup>/h and are available in a variety of different materials and calibers.

Performance parameter

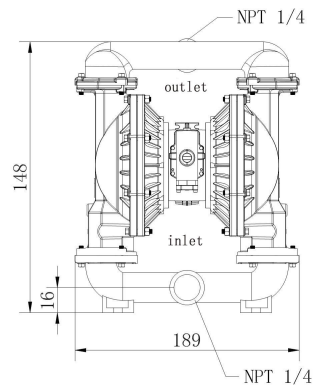
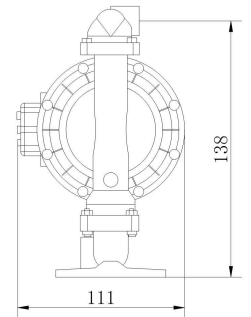
ratio	1:1
Maximum flow rate	1m <sup>3</sup> /h
Capacity per cycle	0.01L
Air inlet	NPT1/4
Liquid inlet/outlet	NPT 1/4
Maximum working pressure	8.6bar
The maximum suspended solid diameter can be passed	2mm
weight	2.9 KG
Maximum dry suction height	4.6m
Noise level	70PSI 60 circle/min 73.0db (A)
Silencer	integrated, included

Series	X	X	X	X	X	X
Body material	Diaphragm material	Ball valve material	Tee material			
A= aluminum alloy	M= rubber	M= rubber	A= aluminum alloy			
S= stainless steel	T= Teflon / polytetrafluoroethylene	T= Teflon / polytetrafluoroethylene	L= 316 stainless steel			
	B= nitrile rubber	B= nitrile rubber	T= Teflon			
			B= nitrile rubber			
			P= polypropylene			

Performance curve



Installation dimension diagram



PA/PS05 (1/2" metal pneumatic diaphragm pump)

Product characteristics

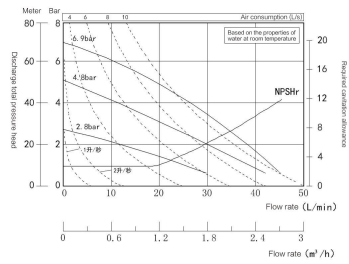
- The PA/PS05 metal diaphragm pump is a type of compact pump that provides superior performance in a small, compact form factor.
- The pump can flow up to 2.7m<sup>3</sup>/h and is available in a variety of different materials and calibers.

Performance parameter

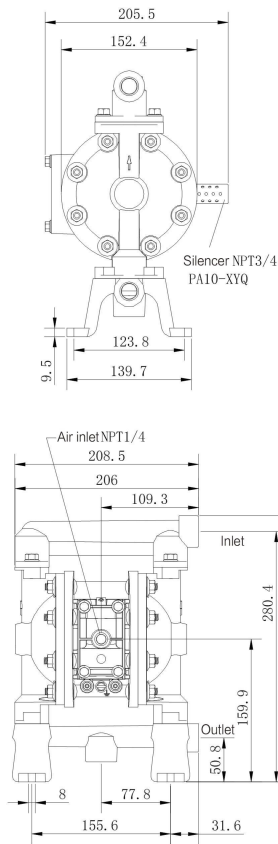
ratio	1:1
Maximum flow rate	2.7m <sup>3</sup> /h
Capacity per cycle	0.15L
Air inlet	NPT1/4
Liquid inlet/outlet	NPT1/2
Maximum working pressure	6.9bar
The maximum suspended solid diameter can be passed	2.4mm
weight	4.7kg
Maximum dry suction height	4.5m
Noise level	70PSI 60 circle/min 75.0db (A)
Silencer	PA10-XYQ

Series	X	X	X	X	X	X
Body material	Inlet and outlet diameter	Diaphragm material	Ball valve material	Tee material		
A=aluminum alloy S=stainless steel	05 (NPT 1/2)	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber U= polyurethane V= fluorine rubber	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber S= stainless steel U= polyurethane V= fluorine rubber	A= aluminum alloy P= polycarbonate S= stainless steel		

Performance curve



Installation dimension diagram



PA/PS10 (1" metal pneumatic diaphragm pump)

Product characteristics

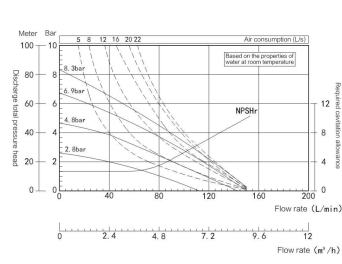
- The PA/PS10 metal diaphragm pump has a maximum flow rate of 7.98m<sup>3</sup>/h and is available in a number of different material and caliber configurations.
- These pumps are widely used in transportation, filling, and recycling in the paint, oil and gas, chemical and petrochemical markets.

Performance parameter

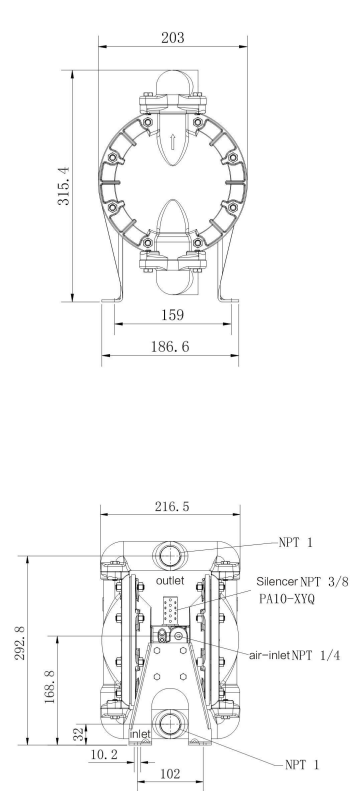
ratio	1:1
Maximum flow rate	7.98m <sup>3</sup> /h
Capacity per cycle	0.6L
Air inlet	NPT 1/4
Liquid inlet/outlet	NPT 1
Maximum working pressure	8.3bar
The maximum suspended solid diameter can be passed	3.2mm
weight	8.6KG
Maximum dry suction height	6.1m
Noise level	70PSI 60 circle/min 64.5db (A)
Silencer	PA10-XYQ

Series	X	X	X	X	X
Body material	Inlet and outlet diameter	Diaphragm material	Ball valve material	Tee material	
A=aluminum alloy S=stainless steel	10 (NPT 1)	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber U= polyurethane V= fluorine rubber R= neoprene	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber S= stainless steel U= polyurethane V= fluorine rubber R= neoprene	A= aluminum alloy C= carbon steel L= 316 stainless steel X= polyvinylidene fluoride P= polypropylene	

Performance curve



Installation dimension diagram



PA/PS15 (1-1/2" metal pneumatic diaphragm pump )

Product characteristics

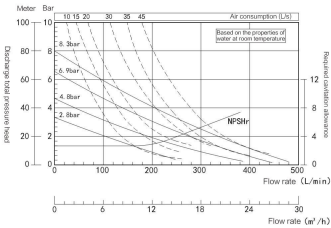
- The PA/PS15 metal diaphragm pump has maximum flow rate of 27.9m<sup>3</sup>/h and is available in a variety of different materials and calibres.
- These pumps are widely used in conveying, filling, recycling, and dispensing in the paint, oil and gas, chemical and petrochemical fields.

Performance parameter

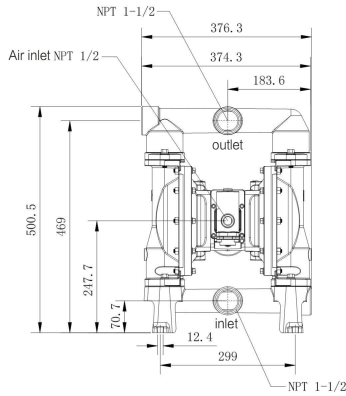
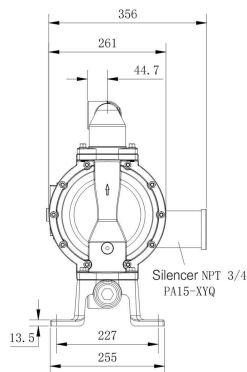
ratio	1:1
Maximum flow rate	27.9m <sup>3</sup> /h
Capacity per cycle	2.34L
Air inlet	NPT 1/2
Liquid inlet/outlet	NPT 1-1/2
Maximum working pressure	8.3bar
The maximum suspended solid diameter can be passed	6.4mm
weight	17.1 kg
Maximum dry suction height	4.2m
Noise level	70PSI 60 circle/min 81.0db (A)
Silencer	PA15-XYQ

P	X	X	X	X	X
Series	Body material	Inlet and outlet Diameter	Diaphragm material	Ball valve material	Teel material
PA15-XYQ	A=aluminum alloy S=stainless steel	15 (NPT1-1/2)	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber V= fluorine rubber	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber H= Hastelloy alloy L= 316 stainless steel V= fluorine rubber	A= aluminum alloy B= nitrile rubber C= carbon steel H= Hastelloy alloy K= polyvinylidene fluoride L= 316 stainless steel M= rubber

Performance curve



Installation dimension diagram



PA/PS 20 (2" metal pneumatic diaphragm pump )

Product characteristics

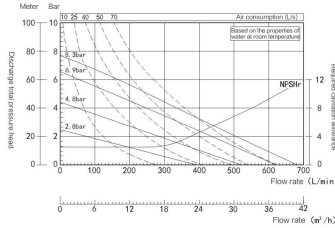
- The PA/PS20 metal diaphragm pump has maximum flow rate of 39.0m<sup>3</sup>/h and is available in a variety of different materials and calibres.
- These pumps are widely used in the transportation, filling, recycling, and dispensing of ceramics, paints, oil and gas, chemical and petrochemical fields.

Performance parameter

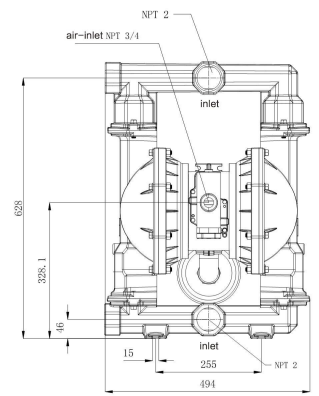
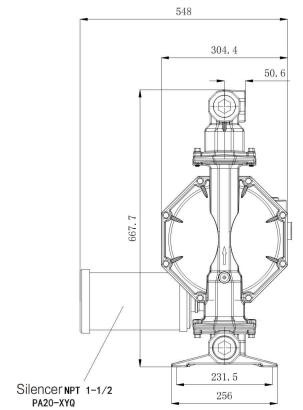
ratio	1:1
Maximum flow rate	39.0m <sup>3</sup> /h
Capacity per cycle	5.3L
Air inlet	NPT 3/4
Liquid inlet/outlet	NPT 2
Maximum working pressure	8.3bar
The maximum suspended solid diameter can be passed	6.4mm
weight	29 kg
Maximum dry suction height	4.2m
Noise level	70PSI 60 circle/min 85.0db (A)
Silencer	PA20-XYQ

P	X	X	X	X	X
Series	Body material	Inlet and outlet Diameter	Diaphragm material	Ball valve material	Teel material
PA20-XYQ	A=aluminum alloy S=stainless steel	20 (NPT2)	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber V= fluorine rubber	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber L= 316 stainless steel V= fluorine rubber	A= aluminum alloy B= nitrile rubber C= carbon steel H= Hastelloy alloy K= polyvinylidene fluoride L= 316 stainless steel M= rubber

Performance curve



Installation dimension diagram





# PA/PS30

## PA/PS30 (3<sup>rd</sup> metal pneumatic diaphragm pump)

### Product characteristics

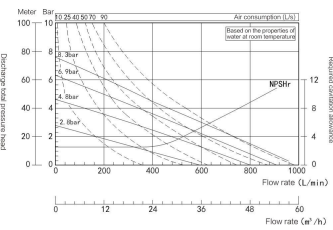
- The PA/PS30 metal diaphragm pump has maximum flow rate of 62.46m<sup>3</sup>/h and is available in a variety of different materials and calibres.
- These pumps are widely used in the transportation, filling, recycling, and dispensing of ceramics, paints, oil and gas, chemical and petro-chemical fields.

### Performance parameter

ratio	1:1
Maximum flow rate	62.46m <sup>3</sup> /h
Capacity per cycle	10.6 L
Air inlet	NPT 3/4
Liquid inlet/outlet	NPT 3
Maximum working pressure	8.3bar
The maximum suspended solid diameter can be passed	9.5mm
weight	51.3 kg
Maximum dry suction height	4.2m
Noise level	70PSI 50circle/min 83.0db (A)
Silencer	PA20-XYQ

P	X	x	X	X	X
Pneumatic pump	A=aluminum alloy S=stainless steel	30 (NPT 3)	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber V= fluorene rubber	M= rubber T= Teflon / polytetrafluoroethylene B= nitrile rubber V= fluorene rubber	A= aluminum alloy B= nitrile rubber C= carbon steel H= Hastelloy alloy L= 316 stainless steel K= polyvinylidene fluoride M= rubber

### Performance curve



### Installation dimension diagram

