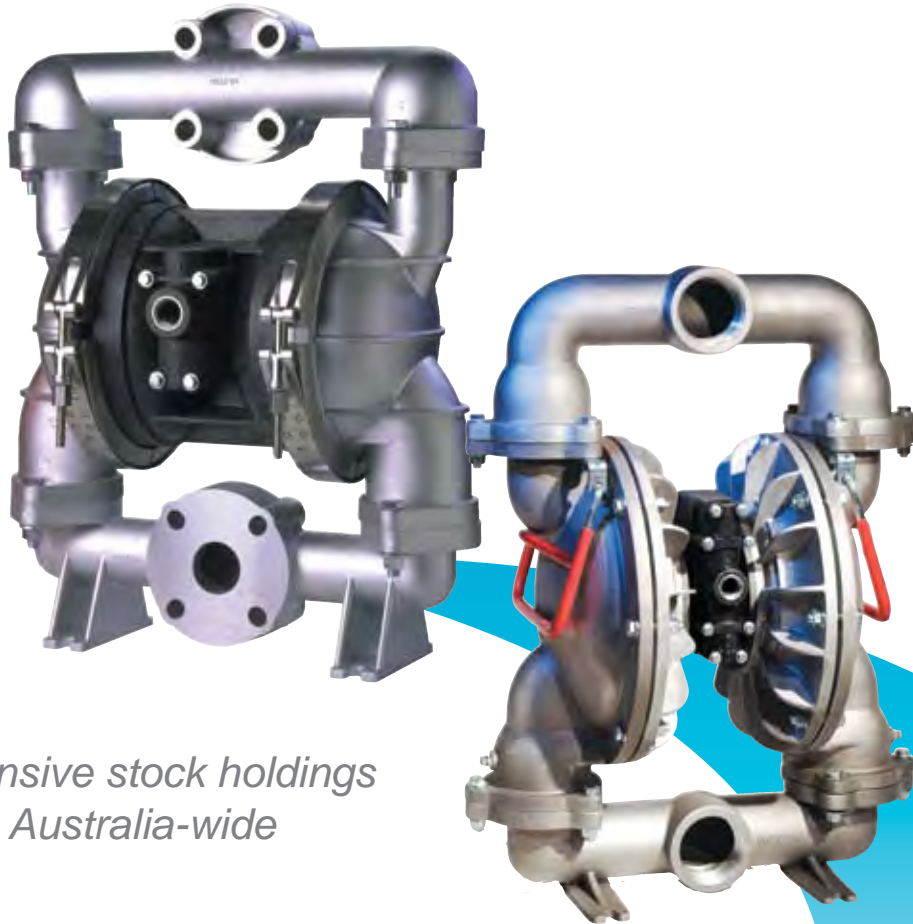




AD Series
Air Diaphragm Pumps



*Extensive stock holdings
Australia-wide*

Air Diaphragm Pumps

Operating Principle

Aquaplus Air Diaphragm Pumps are operated by compressed air or any non-flammable compressed gas. The pumping stroke begins as air is delivered by the air distribution system, putting pressure on one diaphragm and then the opposite diaphragm. The two diaphragms are linked together by a common rod. The pumping stroke on one side is simultaneous with the suction stroke on the opposing diaphragm. This results in fluid being drawn from one side, while discharging fluid from the other side.

Features

- Pumps anything that pours
- Wide range of pump types and sizes
- Patented lube-free air system
- Will not stall at slow speeds
- 100% tested prior to shipment
- Self-priming
- Non electrical
- Runs dry without damage
- Infinitely variable flow rate
- Intermittent operation or continuous duty
- Pumps fluids which contain particles
- Pumps high viscosity fluids
- Reduced solvent flash-off
- Simple modular design
- Dual manifold capability for 6mm to 25mm modules
- Parts interchangeability between models and sizes

Applications

- Mining
- Construction
- Municipal and commerce
- Shipping yard
- Wind energy
- Waste processing
- Manufacturing
- Bio diesel
- Offshore oil and gas
- Rural applications
- Agriculture
- Food processing
- Gas extraction
- Chemical processing
- Pharmaceutical
- Refinery
- Oil and gas
- Liquid removal and storage

Advantage of the Aquaplus AD Series

NO STALLOUTS DUE TO FREEZING

Stallout due to ice formation in the air system is virtually eliminated due to the insulating quality of all plastic construction plus the ability to slow air expansion and velocity without compromising performance.

NO VENT HOLES

There are no vent holes in the air valve. Vent holes needed to prevent stalling in competitive pumps allow corrosive fumes to enter and destroy valuable components. Additionally, if a

diaphragm pump ruptures, fluid leakage cannot be routed to a safe containment zone. The sealed air valve allows containment of fluid and prevents fumes from entering air system.

PERFORMANCE ENGINEERED PTFE DESIGN

Superior PTFE overlay design does not require reduced diaphragm rod stroke, which in turn reduces pump capacity by 20%. All back-up diaphragms for PTFE overlays are Santoprene® which offers a chemically resistant 'second line of defence'.

THERMOPLASTIC DIAPHRAGMS

The thermoplastic diaphragms offer superior chemical abrasion resistance and increased cycle life. The wide range of applications that these materials can address also make ordering the correct pump much easier.

MAINTENANCE TIME IS REDUCED

Due to uniform product design maintenance time is reduced. All models share the same design concept from 15mm pumps to 80mm pumps. The size of the components just becomes larger. If you know how to rebuild one size you can easily rebuild any size.

INVENTORY IS REDUCED

Metallic and plastic pumps all share the same air systems, diaphragms, O-Rings, balls and in some cases valve seats, which helps to reduce inventory requirements. To further help minimise inventory requirements, 40mm and 50mm models share the same air systems, diaphragms and valve seat components.

ALL PLASTIC AIR SYSTEMS

There are all plastic air systems in both metallic and plastic pumps preventing destruction of air system components from corrosive atmospheres or diaphragm ruptures. No brass or aluminium components are used within the air systems.

FLANGE FITTINGS OR THREADED FITTINGS

The Aquaplus 25mm plastic bolted, 40mm and 50mm plastic and metal pumps are built with flange fittings that reduce installation and service time. Threaded pipe connections may be ordered for the 50mm aluminium pumps.

LARGER CAPACITY

Larger capacity per stroke than competitive models means less wear on moving parts.

FLANGE COMPATIBILITY

Flange compatibility is accomplished through the use of slotted flanges on the 25mm, 40mm and 50mm models and BSP compatible threads are available on other models when requested.

WE SPECIALISE IN:

Plastic Models

- Polypropylene / Santoprene®
- Polypropylene / PTFE

Metallic Models

- Aluminium / Geolast®
- Aluminium / PTFE

Product Guide

PB MODEL

The PB Model is the most economical choice for all non-aggressive, water-based liquids and slurries. Water-based inks, paints, adhesives and ceramic slurries are some common applications. Polypropylene offers excellent abrasion resistance and zero water absorption.

PT MODEL

The PT Model is often used in corrosive environments, inorganic acids, bases, plating solutions, alcohols and most water-soluble chemicals. The 25mm and larger polypropylene pumps have fiberglass reinforcement for structural integrity. Do not use with hydrofluoric acid or other fluids not recommended for use with fiberglass.

KT MODEL

The KT Model has excellent mechanical properties and is able to handle a wide range of chemicals such as strong acids and bases, phenols.

AB MODEL

The AB Model contains aluminium that is an A380 class material that does not require anodising impregnation or painting for appearance or wear characteristics. Do not use aluminium with halogenated solvents.

SP MODEL

The SP model as with the PT model is often used in a corrosive environment where a big stainless steel pump is preferred. Generally used for acidic based products but caution must be taken to ensure suitability.

Diaphragm Notes

Geolast® is a nitrile based thermoplastic elastomer used in place of nitrile (Buna-N) or Neoprene for non-aggressive water based applications.

Santoprene® is an EPDM-based thermoplastic elastomer and is resistant to mild acids, some solvents and bases.

Both Geolast® and Santoprene® offer superior cycle life over cloth reinforced diaphragms, abrasion resistance and extended chemical resistance.

PTFE – stock models feature a two part diaphragm system. Bonded single piece diaphragms are available on 25mm models only.

Santoprene® and Geolast® are registered trademarks of Advanced Elastomer Systems.

Teflon® and Viton® are registered trademarks of DuPont Dow Elastomers.

Drum Kits

Drum pump kits are available for 6mm, 15mm and 25mm plastic and 15mm metallic pumps.

The pumps are supplied with bung adaptor and suction tube. Manifolds are pre-positioned for immediate assembly.



NOTES

- Always check Chemical Resistance Chart for compatibility.
- Do not use aluminium with halogenated solvents.

All content is subject to change without notice.

Pump Selection and Installation Guide

READING THE PUMP CURVE

You must know the following data:

1. Required discharge pressure.
2. Air pressure available at the air inlet of the pump.
3. Required flow rate.

To obtain discharge pressure

Using the performance chart for a 15mm pump shown:

If 5.4bar is available at the air inlet and the required capacity of the pump is 22.8L/min. Follow the blue concave curve at 5.4bar **1** as it slopes to the right and intersects with the 22.8L/min vertical line. **2** By tracking horizontally back to the left (Y) axis, the discharge pressure is ascertained – 4.4bar **3**.

To obtain the required air inlet pressure

Reverse the steps above:

Choose required discharge pressure 4.4bar **3**. On left (Y) axis, go directly across the graph to the intersection of the correct flow rate 22.8L/min **2**. Then track up and back toward the left (Y) axis along the blue curve; and the correct required air pressure can be obtained (5.4 bar) **1**.

Note: If greater outlet pressure vs. air inlet pressure is required select a larger pump.

To obtain air consumption

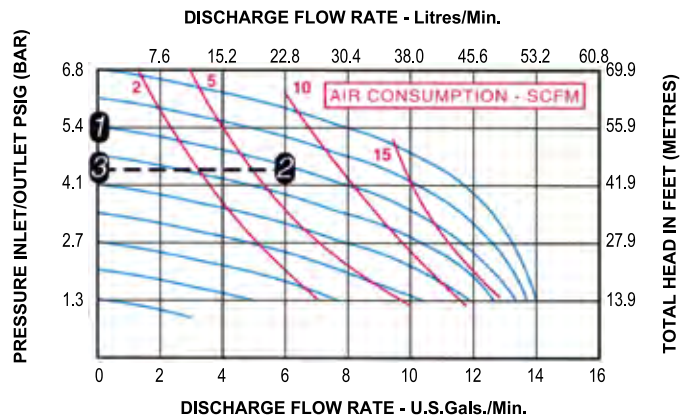
The convex red lines represent the air consumption (standard cubic feet per minute), and the closest red line to where the blue line and the flow rate intersect **2**, represents the air capacity required. On our example the air consumption would be approximately 6SCFM.

Note: To Convert SCFM to m³/h (N) multiply by 1.7.

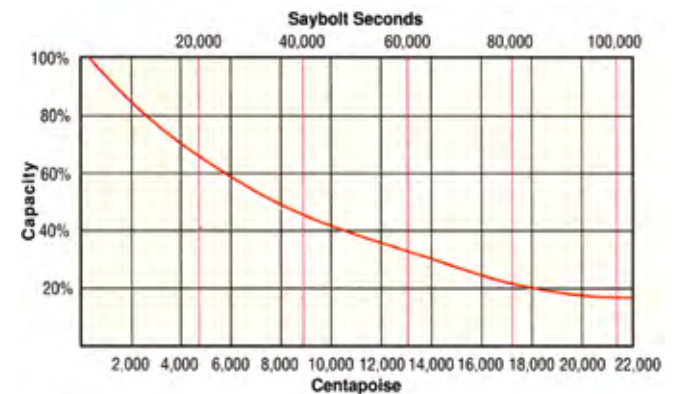
INSTALLATION

1. A lube-free, clean, dry compressed air source (or any non-flammable, compressed gas) is recommended. Use a filter that is capable of filtering out particles larger than 50 microns.
2. Pumps should be mounted in an upright position with the exception of the 6mm models which may be rotated 360° to suit the application.
3. Install a particle fluid filter on the fluid suction line when particles in the fluid exceed the maximum particle size specifications of the pump or particles are sharp enough to cut the diaphragms.
4. Never restrict fluid suction lines by means of a reduced pipe size (smaller than pump inlet size) or control the pump with valves on the fluid inlet side of the pump.
5. Limit fluid inlet pressure to 0.68bar.

PERFORMANCE CURVE



HIGH VISCOSITY APPLICATIONS



As you can see from the diagram above, as viscosities increase, the capacity of the pump decreases. Do not exceed 22,000 centipoise or 100,000 saybolt seconds on all 6mm to 80mm models. Do not exceed 4,000 centipoise or 18,000 saybolt seconds on 6mm models.

Some points to remember when pumping high viscosities:

1. Position the pump close to or below the level of the fluid source.
2. Suction lines should be increased in size-up to three times the size of the pump manifold inlet. Dual manifolds may be used when available.
3. Start the pump slowly using a control valve on the air line.
4. Maximum air pressure required is reached when increasing the air pressure does not increase the flow rate.
5. If greater capacity is required, select a large pump.

6mm Range



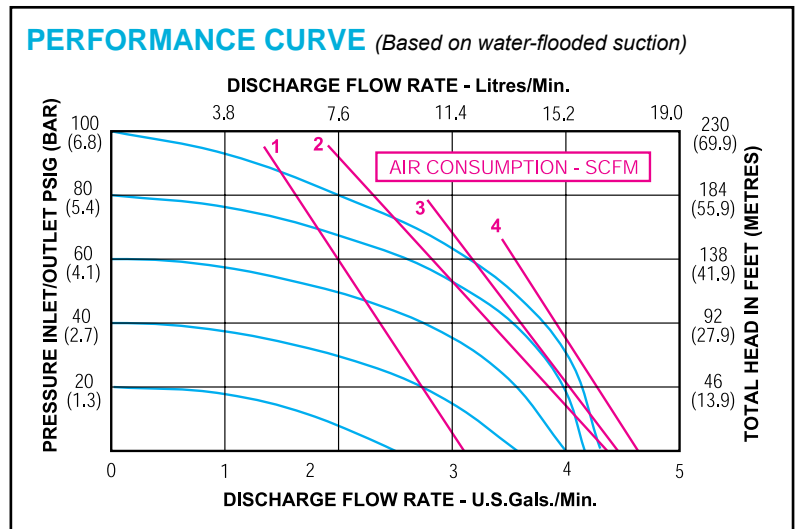
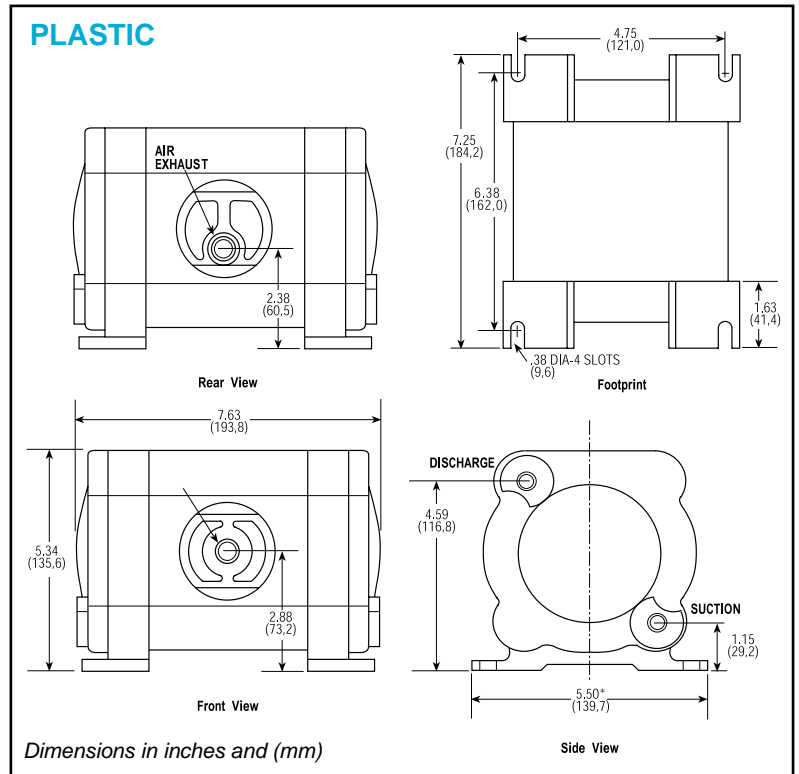
PLASTIC MODELS

Model	Material	Weight
NC-025	Polypropylene / Geolast®	2.3 kg
NC-025E	Polypropylene / Santoprene®	2.3 kg
BK-025	Polypropylene / PTFE	2.3 kg
RD-025	Nylon / PTFE	3.2 kg
RD-025B	Nylon / Geolast®	3.2 kg
CN-025	Conductive Nylon / PTFE	3.2 kg
CN-025B	Conductive Nylon / Geolast®	3.2 kg
KN-025	PVDF/ PTFE	3.2 kg
KN-025E	PVDF/ Santoprene®	3.2 kg

Geolast® properties are similar to that of Nitrile (Buna-N)

SPECIFICATIONS

Capacity	Adjustable	0 to 16.3 litres/min
Maximum Temperature	KN-025 and KN-025E models	93°C
	Other models	66°C
Maximum Air Pressure	All models	6.8 bar
Minimum Air Pressure	All models	1.3 bar
Dry Lift Capacity @ 6.8 bar	All models	5 metres
Maximum Solids		1.6mm
Air Supply	Inlet	1/4" BSP Female
	Airflow control valve supplied	
	Outlet	1/4" BSP Female
	Muffler supplied	
Fluid Inlet/Discharge		1/4" BSP



NOTES

- NPT threads available upon request.
- For optional dual manifold inlet/outlet add – P2S to Model No.

All content is subject to change without notice.

15mm Range



PLASTIC MODELS

Model	Material	Weight
PB-05	Polypropylene / Geolast®	4.1 kg
PE-05	Polypropylene / Santoprene®	4.1 kg
PT-05	Polypropylene / PTFE	4.1 kg
PV-05	Polypropylene / Viton®	4.1 kg
NB-05	Nylon / Geolast®	4.1 kg
NT-05	Nylon / PTFE	4.1 kg
NV-05	Nylon / Viton®	4.1 kg
CT-05	Conductive Nylon / PTFE	5.4 kg
CB-05	Conductive Nylon / Geolast®	5.4 kg
CV-05	Conductive Nylon / Viton®	5.4 kg
KT-05	PVDF/ PTFE	5.4 kg
KE-05	PVDF/ Santoprene®	5.4 kg
KV-05	PVDF/ Viton®	5.4 kg

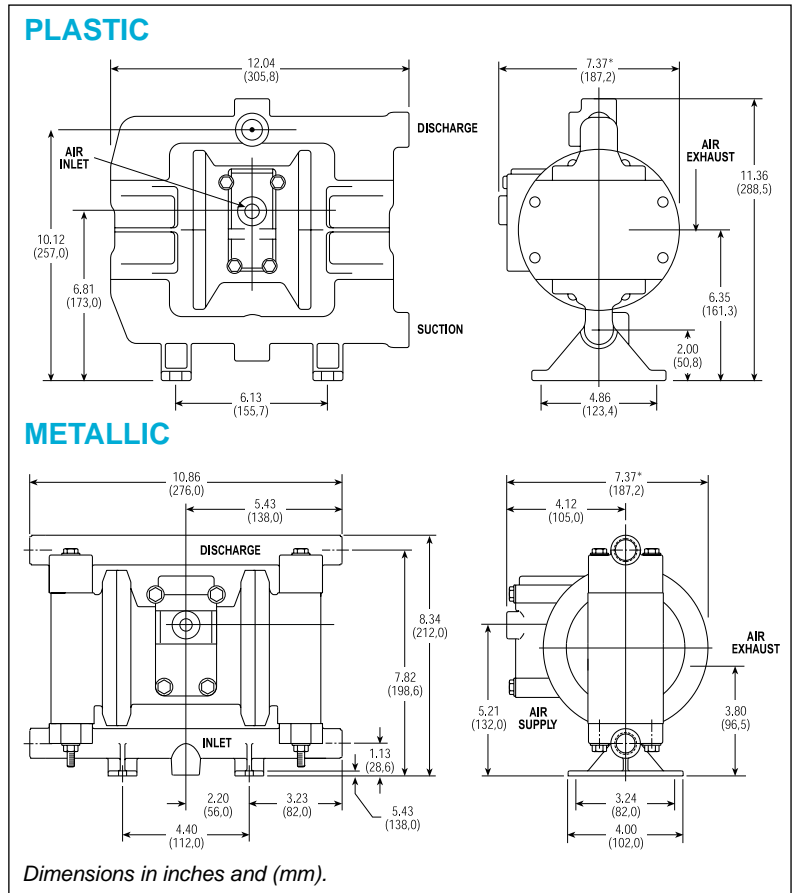
METALLIC MODELS

Model	Material	Weight
AB-05	Aluminium / Geolast®	4.5 kg
AE-05	Aluminium / Santoprene®	4.5 kg
AT-05	Aluminium / PTFE	4.5 kg
AV-05	Aluminium / Viton®	4.5 kg
SB-05	316 Stainless Steel / Geolast®	8.6 kg
SE-05	316 Stainless Steel / Santoprene®	8.6 kg
SP-05	316 Stainless Steel / PTFE	8.6 kg
SV-05	316 Stainless Steel / Viton®	8.6 kg

All fasteners are 18 - 8 stainless steel (comparable to 302 - 304)

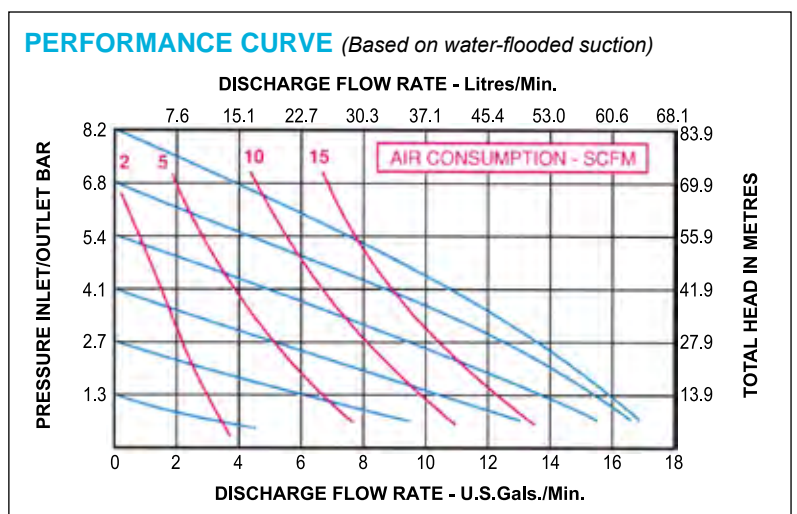
SPECIFICATIONS

Capacity	Adjustable	0 to 64.6 litres/min
Maximum Temperature	KT-05, KE-05 and KV-05 models	93°C
	Other plastic models	66°C
	AB-05 and SB-05 models	82°C
	Other metallic models	100°C
Maximum Air Pressure	All models	8 bar
Minimum Air Pressure	All models	1.2 bar
Dry Lift Capacity @ 8 bar	Models with PTFE balls	3 metres
	Other models	4.5 metres
Maximum Solids	Standard solids	3.2 mm
	Optional Max-Pass™ valves	9 mm
Air Supply	Inlet	1/4" BSP Female
	Outlet	3/8" BSP Female
	Muffler supplied	
Fluid Inlet/Discharge	NPT compatible	1/2" BSP models



OPTIONAL MAX-PASS™ VALVE SYSTEM

- Up to 9mm solids
- Abrasion resistant
- To order Max-pass™ valve system add the following code to the model number: M37 (Nitrile, FDA), M39 (EPDM, FDA), M40 (Viton® , FDA)
- Ideal for inks, paints, slurries and other specialised applications.



NOTES

- Stock models have a side port.
- Optional centre, top or dual ports must be specified when ordering.
- Fluid is not separated within the single piece manifold when dual ports are specified.

All content is subject to change without notice.

25mm Range



PLASTIC MODELS

Model	Material	Weight
PB-10	Polypropylene / Geolast®	9.1 kg
PE-10	Polypropylene / Santoprene®	9.1 kg
PT-10	Polypropylene / PTFE	9.1 kg
PV-10	Polypropylene / Viton®	9.1 kg
KT-10	PVDF / PTFE	13.7 kg
KE-10	PVDF / Santoprene®	13.7 kg
KV-10	PVDF / Viton®	13.7 kg

METALLIC MODELS

Model	Material	Weight
AB-10	Aluminium / Geolast®	10.5 kg
AE-10	Aluminium / Santoprene®	10.5 kg
AT-10	Aluminium / PTFE	10.5 kg
AV-10	Aluminium / Viton®	10.5 kg
SB-10	316 Stainless Steel / Geolast®	20.4 kg
SE-10	316 Stainless Steel / Santoprene®	20.4 kg
SP-10	316 Stainless Steel / PTFE	20.4 kg
SV-10	316 Stainless Steel / Viton®	20.4 kg

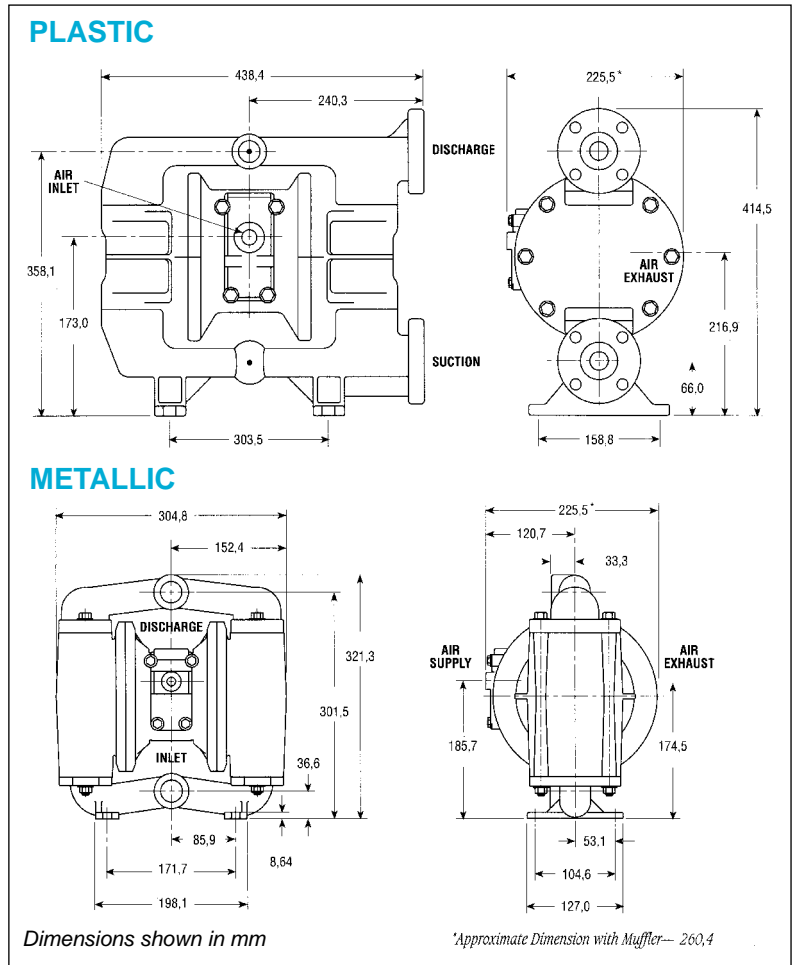
All fasteners are 18 - 8 stainless steel (comparable to 302 - 304)

SPECIFICATIONS

Capacity	Adjustable	0 to 155.8 litres/min
Maximum Temperature	KT-10, KE-10 and KV-10 models	93°C
	Other plastic models	66°C
	AB-10 and SB-10 models	82°C
	Other metallic models	100°C
Maximum Air Pressure	All models	8 bar
Minimum Air Pressure	All models	1.2 bar
Dry Lift Capacity @ 8 bar	Models with PTFE balls	3 metres
	Other models	4.5 metres
Maximum Solids	Standard Solids	6.4 mm
	Optional Max-Pass™ valves	19 mm
Air Supply	Inlet	1/4" BSP Female
	Outlet	3/8" BSP Female
	Muffler supplied	
Fluid Inlet/Discharge	Plastic models	1" flange ANSI/DIN compatible
	Metallic models	1" BSP

NOTES

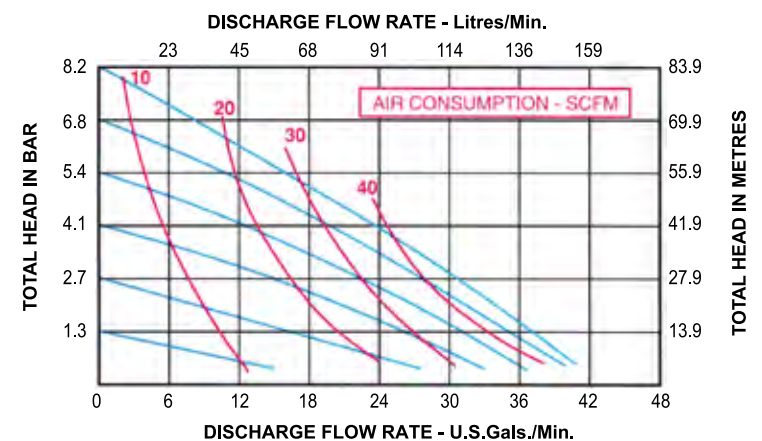
- Stock of plastic models have flanged side ports.
- Optional threaded centre ports must be specified when ordering.



OPTIONAL MAX-PASS™ VALVE SYSTEM

- Up to 19mm solids
- Abrasion resistant
- To order Max-pass™ valve system add the following code to the model number: M37 (Nitrile, FDA), M39 (EPDM, FDA), M40 (Viton®, FDA)
- Ideal for inks, paints, slurries and other specialised applications.

PERFORMANCE CURVE (Based on water-flooded suction)



All content is subject to change without notice.

40mm Range



PLASTIC MODELS

Model	Material	Weight
PB-15	Polypropylene / Geolast®	20.8 kg
PT-15	Polypropylene / PTFE	20.8 kg
PE-15	Polypropylene / Santoprene®	20.8 kg
PV-15	Polypropylene / Viton®	20.8 kg
KT-15	PVDF/ PTFE	29.4 kg
KE-15	PVDF/ Santoprene®	29.4 kg
KV-15	PVDF/ Viton®	29.4 kg

METALLIC MODELS

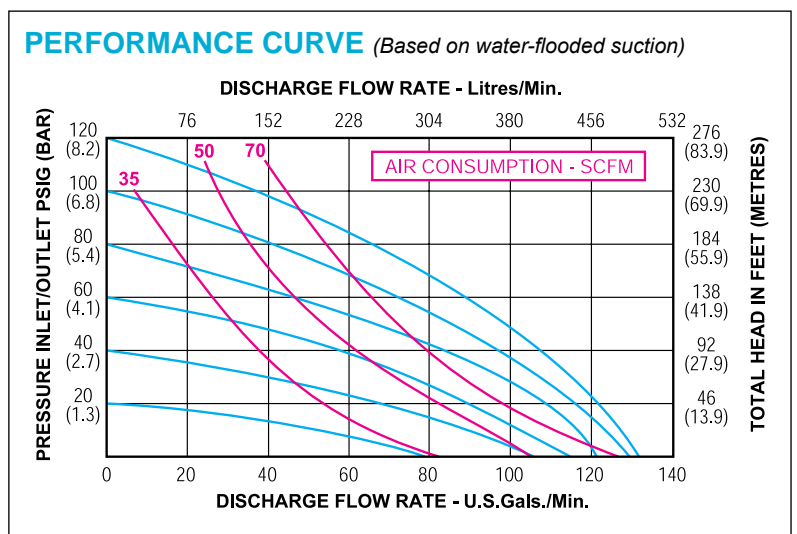
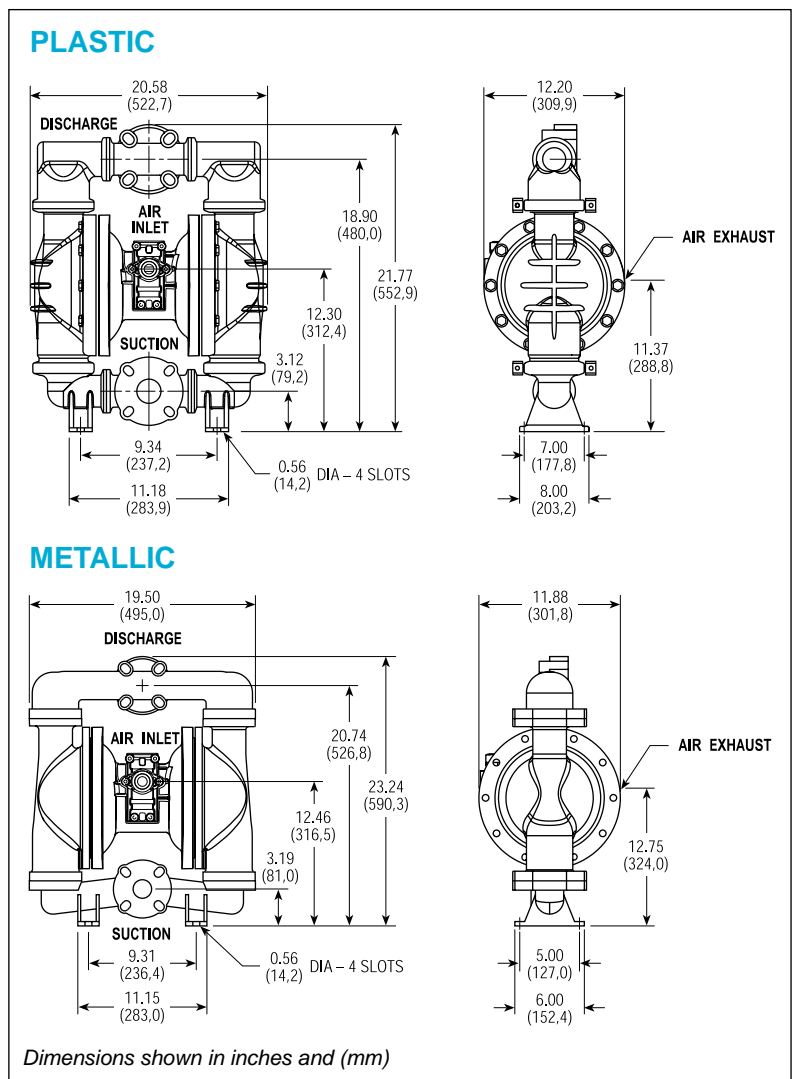
Model	Material	Weight
AB-15	Aluminium / Geolast®	27.2 kg
AE-15	Aluminium / Santoprene®	27.2 kg
AT-15	Aluminium / PTFE	27.2 kg
AV-15	Aluminium / Viton®	27.2 kg
SB-15	316 Stainless Steel / Geolast®	60.0 kg
SE-15	316 Stainless Steel / Santoprene®	60.0 kg
SP-15	316 Stainless Steel / PTFE	60.0 kg
SV-15	316 Stainless Steel / Viton®	60.0 kg

SPECIFICATIONS

Capacity	Adjustable	0 to 492 litres/min
Maximum Temperature		
	KT-15, KE-15 and KV-15 models	93°C
	Other plastic models	66°C
	AB-15 and SB-15 models	82°C
	Other metallic models	100°C
Maximum Air Pressure	All models	8.2 bar
Minimum Air Pressure	All models	1.3 bar
Dry Lift Capacity @ 8 bar		
	Models with PTFE balls	3 metres
	Other models	4.5 metres
Maximum Solids		6.4 mm
Air Supply		
	Inlet	3/4" BSP Female
	Outlet	3/4" BSP Female
	Muffler supplied	
Fluid Inlet/Discharge		40mm Flange

NOTES

- Flanges are ANSI and DIN compatible.
- Threaded companion flanges available.
- Stainless steel pump option - tri clamp fittings and electropolished.



50mm Range



PLASTIC MODELS

Model	Material	Weight
PB-20	Polypropylene / Geolast®	21.7 kg
PT-20	Polypropylene / PTFE	21.7 kg
PE-20	Polypropylene / Santoprene®	21.7 kg
PV-20	Polypropylene / Viton®	21.7 kg
KT-20	PVDF / PTFE	31.3 kg
KE-20	PVDF / Santoprene®	31.3 kg
KV-20	PVDF / Viton®	31.3 kg

METALLIC MODELS

Model	Material	Weight
AB-20	Aluminium / Geolast®	27.7 kg
AE-20	Aluminium / Santoprene®	27.7 kg
AT-20	Aluminium / PTFE	27.7 kg
AV-20	Aluminium / Viton®	27.7 kg
SB-20	316 Stainless Steel / Geolast®	60.0 kg
SE-20	316 Stainless Steel / Santoprene®	60.0 kg
SP-20	316 Stainless Steel / PTFE	60.0 kg
SV-20	316 Stainless Steel / Viton®	60.0 kg

SPECIFICATIONS

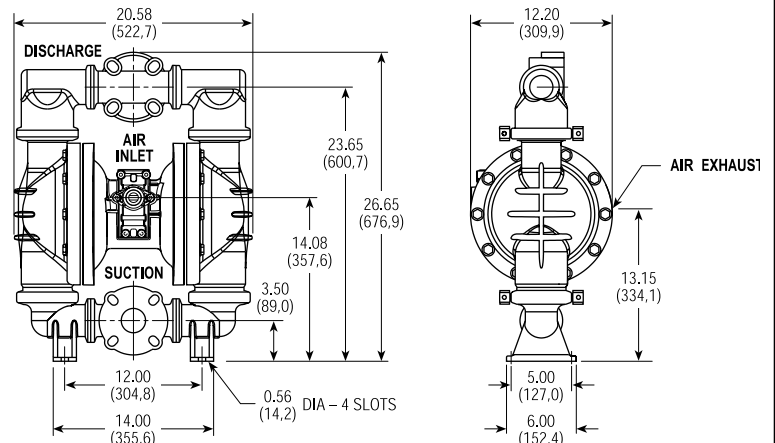
Capacity	Adjustable	0 to 681 litres/min
Maximum Temperature	KT-20, KE-20 and KV-20 models	93°C
	Other plastic models	66°C
	PB-20 and SB-20 models	82°C
	Other metallic models	100°C

Maximum Air Pressure	All models	8.2 bar
Minimum Air Pressure	All models	1.3 bar
Dry Lift Capacity @ 8 bar	Models with PTFE balls	3 metres
	Other models	4.5 metres
Maximum Solids		6.4 mm
Air Supply	Inlet	3/4" BSP Female
	Outlet	3/4" BSP Female
	Muffler supplied	
Fluid Inlet/Discharge		51mm Flange

NOTES

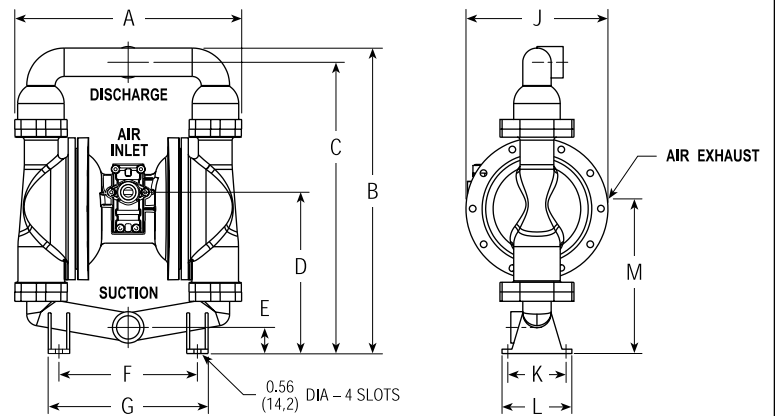
- Plastic Pumps - ANSI and DIN flanges *Companion flanges available.
- Stainless steel pump option - tri clamp fittings and electropolished.

PLASTIC



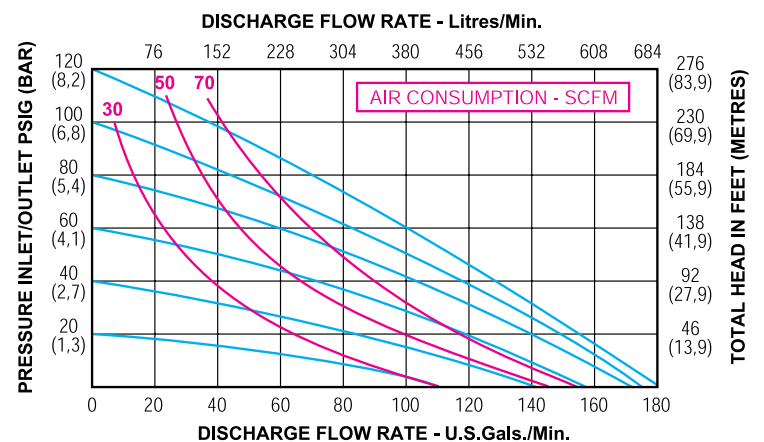
Dimensions in inches and (mm)

METALLIC



Model	Dimensions (mm)										
	A	B	C	D	E	F	G	J	K	L	M
50mm Aluminium (BSP)	495	667	636	352	57.1	225.5	304.8	309.9	127	152.4	327.6
50mm Stainless Steel (BSP)	495	625.3	584.2	382.3	89	304.8	351.5	309.9	127	152.4	358.1
Metal Flange Optional (50mm)	495	625.3	549.2	336.6	89	304.8	351.5	301.8	127	152.4	324

PERFORMANCE CURVE



80mm Range



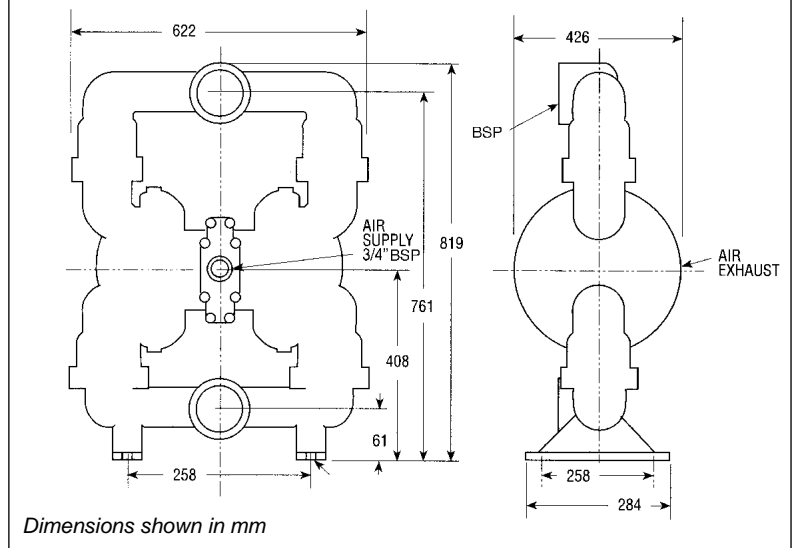
METALLIC MODELS

Model	Material	Weight
AL-30	Aluminium / Urethane	68.0 kg
AL-30E	Aluminium / Santoprene®	68.0 kg
AL-30T	Aluminium / PTFE	68.0 kg
AL-30V	Aluminium / Viton®	68.0 kg
AN-30	Aluminium / Nitrile	68.0 kg

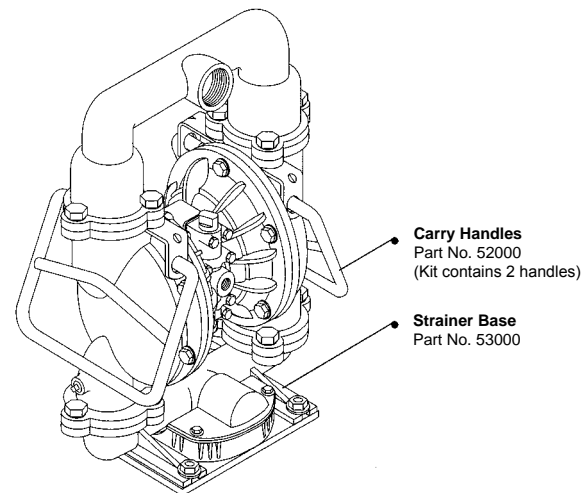
SPECIFICATIONS

Capacity	
Adjustable	0 to 965 litres/min
Maximum Temperature	
AN-30	82°C
AL-30	66°C
All other models	100°C
Maximum Air Pressure	
All models	8.5 bar
Minimum Air Pressure	
All models	1.3 bar
Dry Lift Capacity @ 6.8 bar	
Models with PTFE balls	3 metres
Other models	4.5 metres
Maximum Solids	11.1 mm
Air Supply	
Inlet	3/4" BSP Female
<i>Air flow control valve supplied</i>	
Outlet	3/4" BSP Female
<i>Muffler supplied</i>	
Fluid Inlet/Discharge	
Metallic models	3" BSP Female

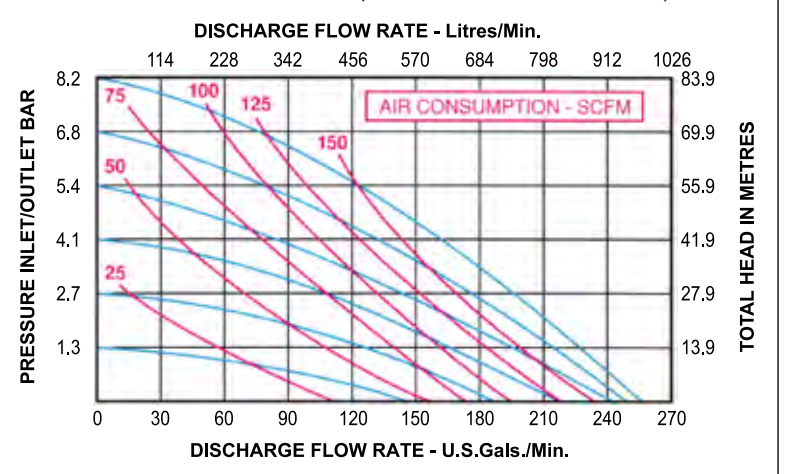
METALLIC *Ports shown facing front for dimensional purposes.*



OPTIONAL 80mm PUMP ACCESSORIES



PERFORMANCE CURVE *(Based on water-flooded suction)*



Frequently Asked Questions

1. Can I pump inks with this type of pump? (Similar questions are asked concerning paints and adhesives and can be answered in a similar manner).

Yes, but prior to making a pump selection you need to know if the fluid is a solvent or water-based product. What is the viscosity and temperature of the product? Generally if the fluid is solvent based, a good choice is nylon or aluminium models with PTFE elastomers. When pumping chlorinated solvents, 316 Stainless Steel models are the best choice.

2. If the fluid temperature exceeds 66°C what pump should be used?

Pumps that are rated up to 93°C are the PVDF models and all of the metal pumps. Check your Chemical Resistance Chart for compatibility.

3. When I cannot find a certain chemical on the resistance chart, what do I do?

- Ask what materials are presently being used to transfer the fluid or if there is a manufacturer's recommendation that is on the fluid container, etc.
- If there is no other information on this chemical you will have to check with the manufacturer of the fluid and find out what is recommended.
- Never guess fluid to material combinations that are not substantiated.

4. What if the chemical to material has a 'B' rating in the chemical resistance chart?

We do not recommend that anything other than 'A' rated combinations be used. If you select a chemical to material rating of 'B' the warranty is void.

5. Can I use polypropylene with hydrofluoric acid?

Since all pumps use natural polypropylene you can pump hydrofluoric acid after consulting a chemical guide for concentration and temperature limits.

6. What if the concentration of acid is given with a degree symbol, such as 66°, does this mean that it is 66%?

The degree symbol means degrees baume. In this case the 66° is actually 98% strength. You will find this symbol often used when describing sulfuric acid.

7. Is there a model recommendation for use in food applications?

Our All-Pür model has electropolished and passivated 316 Stainless Steel and FDA approved elastomers for use in food and sanitary applications.

8. Is there anything special that I should tell the customer with purchasing hazardous fluids?

Yes. If a diaphragm should rupture, the exhaust should always be piped to a control area – a place for safe handling or back to the tank – since fluid will enter the air system if the diaphragm is breached. Also, never forget to wear protection for eyes, lungs and skin when near hazardous fluids.

9. Do I need an air line lubricator for these pumps?

No, never use air line lubrication.

10. I hear a lot about Geolast®. What type of resistance does Geolast® have?

It is similar to that of Buna-N (Nitrile).

11. My polypropylene pump is installed outside and have started cracking. What is the problem?

Polypropylene is not resistant to UV rays. Also, polypropylene is limited to use in temperatures over 0°C. For this type of application it is best to use a PVDF model, a metal model or shroud and insulate your polypropylene model.

12. Can I operate the pumps at pressures higher than the maximum pressure ratings?

No, the pumps will start leaking, diaphragms may bulge and inner plates may bend.

13. How should I regulate the flow of a diaphragm pump?

You can regulate the flow of a diaphragm pump three ways. Reduce or increase the air pressure, making sure that you are within the operating limits of the pump. You can increase or decrease the amount of air volume going to the pump via a valve on the air line and finally, a valve on the fluid discharge may be opened or closed. Never restrict fluid suction lines.

14. Can I submerge the pump?

Yes, if the fluid is compatible with the pump housing and fasteners and if you pipe the exhaust above the level of the fluid.

15. Is there some way that I can extend the life of my diaphragms, balls and valve seals?

Remove sharp particles from the fluid. If the fluid is abrasive, slow the pumping speed or go to a larger pump. Do not over pressurize. In general, the slower the pump operates the longer life you will have with all moving components.

16. The pump was working just fine, but it has slowed down and I'm not getting the needed capacity, what can I do?

Check the fluid suction lines for obstructions and also check the valve seals for debris. Make sure that the fluid has not gotten more viscous with a decrease in the temperature.

17. How do I pump high viscosity fluids?

If it pours, you can pump it.

- Use large suction lines, up to three times the size of the pump ports.
- Position the pump as close to (or below) the level of the fluid as possible.
- Start the fluid slowly using an air line valve. Set the air pressure and crack the valve open slowly.

18. Do all pumps have dual manifold capability?

All 6mm, 10mm, and 15mm pumps can be configured at the factory for dual manifolds.

19. How does high specific gravity affect my pumping application?

If the pump is flooded, fluids with high specific gravity may exceed the pump suction limitations of 69kPa. If the pump is above the level of the fluid, high specific gravity will limit suction lift.

20. Do I have to ground the pump when pumping flammable fluids?

Yes, this can be done with conductive plastic pumps via the grounding lugs. If you are not using a conductive plastic pump then ground the fluid through a metallic pipe nipple at both the suction and discharge ports. Metal pumps should also be grounded.

21. How often should I tighten fasteners on my plastic pumps?

That depends on the application. Pressure, average hours in service and temperature all affect the flow of plastic. Pumps need tightening if leakage should occur. Tightening should be part of any preventative maintenance program and should be based on the service duty of the pump.

22. What if I mix several chemicals together, can I use the individual material to chemical ratings that are listed in the chemical resistance chart to transfer this fluid mixture?

Proceed with caution. Individual ratings may or may not be appropriate for a chemical cocktail. Again, is the fluid currently being transferred successfully using a particular set of materials.

Aquaplus Product Range

ESD Series – End Suction DIN (24255) Pumps

ESI Series – End Suction ISO (2585) Pumps

SP Series – Self Priming Pumps

SD Series – Submersible Dewatering Pumps

SS Series – Submersible Sewerage Pumps

ARJ Series – Aerators (Jet)

ARS Series – Aerators (Submersible)

AD Series – Air Diaphragm Pumps

FRM Series – Flexible Rising Main (Borehole Pump Hose)

MS Series – Mechanical Seals (Single Spring & Cartridge)

We are also able to provide Progressive Cavity, Peristaltic Pumps, Split Case Pumps and Magnetic Drive Pumps.

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