Issued: 02/2015

The product is manufactured under ISO9001 certified quality system.

Subject to modification without prior notice due to continuous product improvement.

Specialist in fluid transfer

AIR-OPERATED DOUBLE DIAPHRAGM PUMP

Specialist in fluid transfer

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www.skylink-tec.com

skylink

skylink

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About Skylink

Company Introduction

Skylink has always focused on the fluid transfer, providing customers around the world with high-quality pumps and their derivatives.

Providing customers with high-quality products and services continuously has been the goal pursued by Skylink. The global marketing network and excellent service of Skylink have always been praised highly by customers around the world. Skylink will continue to satisfy customer expectations globally and “continue to transcend and pursue perfection”.

As an industrial pump manufacturer with rich experience, Skylink’ s professional manufacturing technologies of air-operated double diaphragm pump product series have reached a high level, which not only can transfer highly-abrasive medium, but also can pump medium of high viscosity or solid granular. Skylink can provide reasonable and efficient fluid transfer solutions according to the application occasions and customer demands.

Nowadays, Skylink products are active in various industries and fields, undertaking the important task of transferring fluid. From the fast-growing automobile manufacturing enterprises in China, and the pharmaceutical enterprises with high reputation in Europe, to the shipping giants for trans-oceanic transportation, Skylink products are reliable in operation and simple in maintenance, which have helped our customers solve various fluid transfer problems and contributed to customer success.

About Skylink

Research, Development and Innovation

Skylink has always regarded research and development as the top priority in the company development, and has provided our customers with innovative technologies and solutions constantly, so as to guarantee the industrial leading position in technology.

Customized Solution

Depending on our rich knowledge in fluid transfer and insight to challenges when facing different industries, we will make great efforts to cooperate with you for developing innovative solutions, so as to satisfy your demands at present and in the future.

As your cooperative partner, we will provide you with top-ranking pump products and a large number of industry application knowledge, so as to provide assistance and support for your success!

We clearly know about what problems you face, and we also deeply realize that you keep requiring the product improvement, so as to satisfy new applications and new demands of end users. Therefore, we keep close to customers to seek and establish practical and feasible solutions together.

About Skylink

Quality Management

Quality is the key for Skylink to establish relationships with customers. Customers expect us to provide products with the best quality and services with excellence and efficiency, so as to reinforce their competitive advantages. Therefore, we are doing our best to perfect our products, processes and services every day, and provide excellent quality with reasonable prices, which is the basis for us to establish partnership with our customers.

Our quality management system established according to the international standards can guarantee that all processes among our internal organizations, customers, cooperative partners and suppliers are reliable and efficient, and will be improved constantly.

We will not establish and implement any measure which will reduce quality of any available product or customer satisfaction degree. In order to ensure good quality, we will provide customers with necessary training on products, technologies, operation and maintenance.

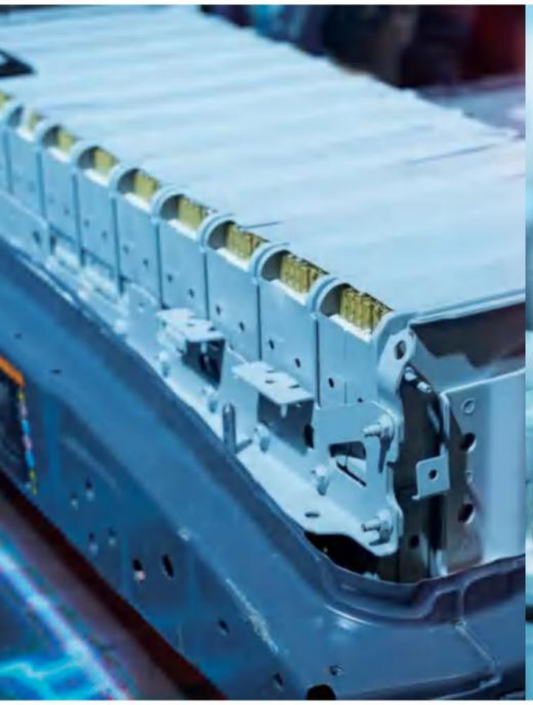
Marketing Service

Skylink has always put customer interest in the first place, providing customers with services of whole product life cycle and fully satisfying differentiated demands of customers. When you choose Skylink products, you can also obtain strong support from our technical expert team with rich experience.

We have constantly realized the transformation from order orientation to user demand orientation, and have developed products required by customers in the process of helping them to solve problems. We know that only by doing this can we guarantee that customers will be free of worry in the whole life cycle of the products.

“100% satisfaction of customers” is not an abstract concept for us. In Skylink, from management personnel to new staff, the concept has been regarded as a guiding principle in the ideas of every employee and implementation measures. The concept originates from our belief — ensure customer interests to the maximum extent.

Industry Application



New energy

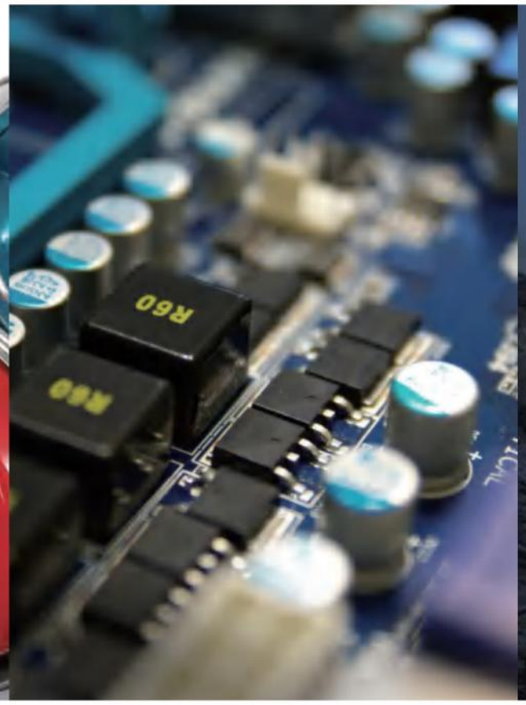
raw materials, materials,
equipment matching

Medicine

organic solvents, acids and alkalis,
active pharmaceutical ingredients/intermediates,
wastewater treatment, powders

Chemical Industry

Emulsion, latex, detergent,
adhesive, paint and ink



Electronic

Waste water, strong acid,
strong alkali and adhesive

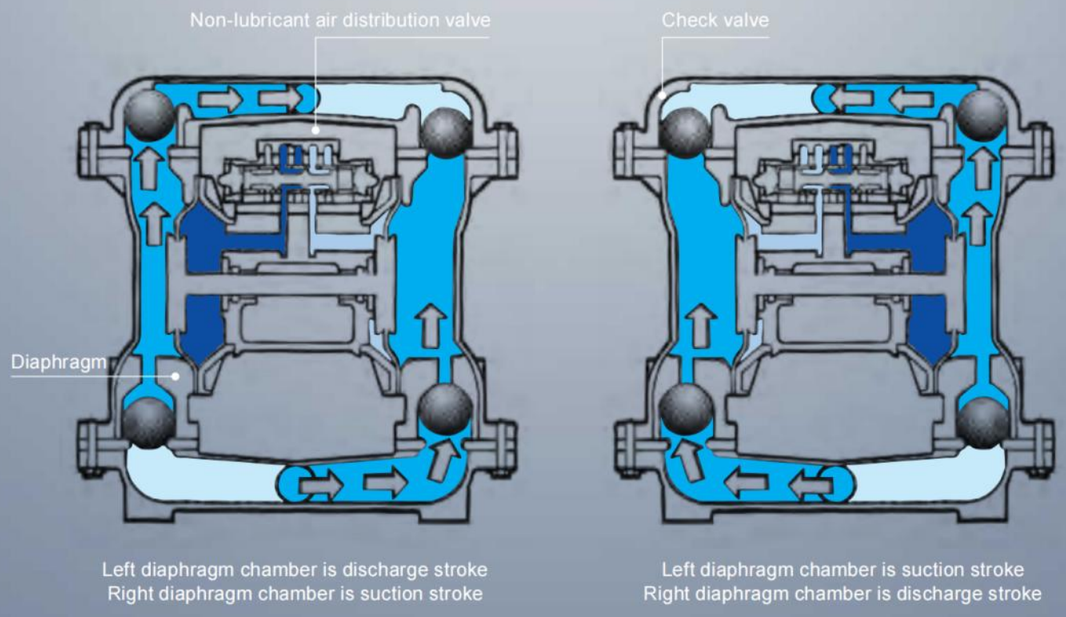
Mining

Waste water and cement slurry

Application scope of the Skylink products is very wide, and its application perspective is still being widened. From the chemical industry such as emulsion and paint etc., the electronic industry such as waste water and strong acid etc. to the automobile industry such as solvent and adhesive etc., all our products are outstanding.

All Skylink products in different industries have one thing in common, that is the persistent pursuit for quality first and service foremost.

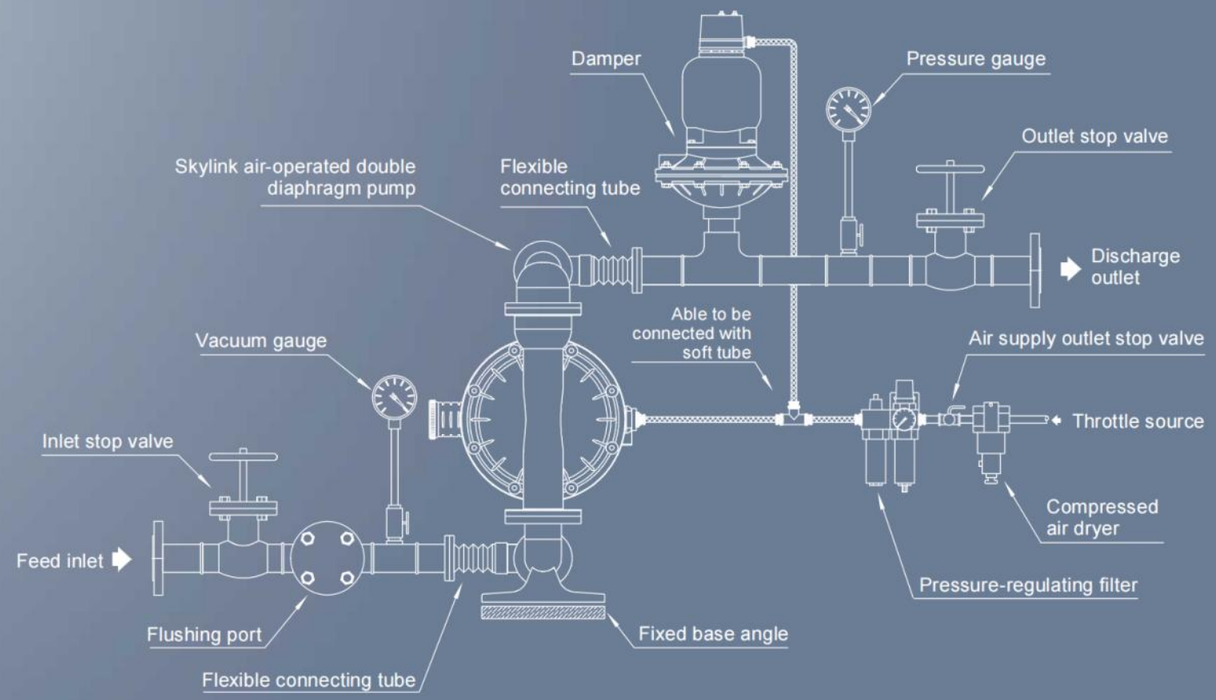
Operating Principle



Left diaphragm chamber is discharge stroke
Right diaphragm chamber is suction stroke

Left diaphragm chamber is suction stroke
Right diaphragm chamber is discharge stroke

Installation Method



Skylink diaphragm pump is driven by compressed air.

Directional air distribution valve and main air valve, which are called “air chamber”, are set in the central position of the pump. The outer diaphragm chamber of two collecting pipes and the pump through which medium flows is called “medium chamber”. Generally speaking, check valves (ball type) are all set at the top and bottom of each outer diaphragm chamber, and they usually use the same collecting pipe. The two diaphragm chambers are connected through suction and discharge joints, and the pump is of self-suction type.

When the pump is in operation, the compressed air distribution valve changes running direction of the main air valve alternately, which forms airflow pulse inside the chamber, and the position of the distribution valve will also shift automatically, so that air can be switched to another diaphragm chamber, and the alternate suction and discharge strokes will be formed in the diaphragm chambers of both sides. The diaphragms move in parallel paths, and the air valve does not have any lubricant requirement, which means that clean and dry air is required to improve the pump performance.

When medium flows through the pump, the check valve will open and close automatically, which makes each outer diaphragm chamber filled and discharged alternately, and the check valve will react to pressure difference. Ball-type check valve can handle medium containing particles.
When the air distribution valve lets compressed air enter the left diaphragm chamber, the diaphragm will push outward due to being pressed and form the discharge stroke. Medium inside the discharge part will be forced to leave the outer diaphragm chamber, check valve and collecting pipe, and then outflow through outlet of the pump. The discharge outlet is located at the top of the pump. When the diaphragm is pushed outward due to being pressed, connecting rod of the diaphragm inside will drag the right diaphragm to make it withdraw inward and form the suction stroke. In this way, medium fills the outer diaphragm at the right side, medium flows into the pump from the inlet, and fills the cavity through an open inlet check valve. After finishing this circular motion, the air distribution valve will shift automatically to switch air to the other diaphragm chamber, so as to repeat the above-mentioned circular motion reversely. That is, the diaphragm chambers at both sides will thus present alternate discharge and suction motions.

Notes:

What the figure shows is standard installation. In different industries, specific installation methods are different. For detailed implementation, please consult professional suppliers.

When the soft tube between the pressure-regulating filter and the air inlet is changed to hard tube, iron pipe fittings are not allowed to be used between the pressure-regulating filter and the pneumatic diaphragm pump.

Correct air-supply pipe blowing method.

Core Components

Air valve

The unique SKYLINK air valve structures of Skylink can make equipment maximize its performance. Structures of the air valve are simple, with low gas consumption and high efficiency.

Connection mode

Skylink air-operated double diaphragm pump owns two connection modes of screw and flange, with adjustable angle and suitable for installation in most occasions.

Diaphragm

Skylink diaphragm is very endurable; material selection and process technology with high quality can guarantee that it can adapt to various kinds of fluid media.

Shell material selection

Skylink air-operated double diaphragm pump provides various materials: aluminum alloy, cast iron,stainless steel,PP,PVDF and PPH.

Multiple size choices

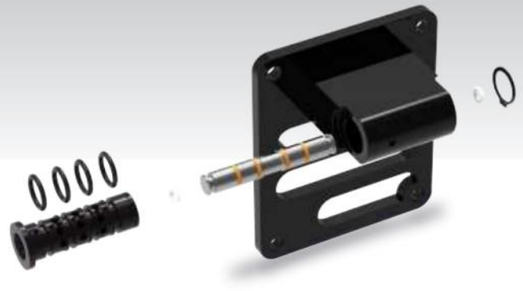
Skylink metal pumps own 5 sizes: 0.5'', 1'', 1.5'', 2'' and 3'', so that you can always find a working pump with a suitable flow.

Slide valve-type air valve

- Reliable on/off, no dead point.
- External air valve, easy to maintain and low cost.
- Air valve self-lubrication design.
- Unbalanced valve core design.
- Valve sleeve-valve core high-precision gap matching.

Diaphragm characteristics:

Material	Advantage	Drawback	Temperature
Teflon	Corrosion resistance	Not wear-resistant	104℃
SP	Wear-resistant Heat-resistant 20% Acid and alkali	Not resistant to organic solvents	107℃
NE	Good flexibility Good resistance to organic solvents	Not resistant to acid and alkali	77℃
BN	Resistant to organic solvents	Not resistant to strong acid and alkali	88℃
VT	Corrosion resistance	Not wear-resistant Strong plasticity	177℃
GG	Chemical resistance Keto-resistant Ether resistant	Not resistant to oil-bonded solvents	138℃
double-layer diaphragms	long service life Easy to clean	/	88℃



Guide valve

- Gley ring seal, material PTFE plus filler.
- Self-lubrication design.
- Larger guide valve hole effectively reduces the probability of unclean air blocking.

Model Selection of SK Series Diaphragm Pump

SKYLINK AODD PUMP

METAL PUMP

Skylink Air-operated Double Diaphragm Metal Pump

Code	SK	25	/	3	A	A	A	/	NE	N	N	/	0	0	0
Serial Number	1	2		3	4	5	6		7	8	9		10	11	12

SK Series

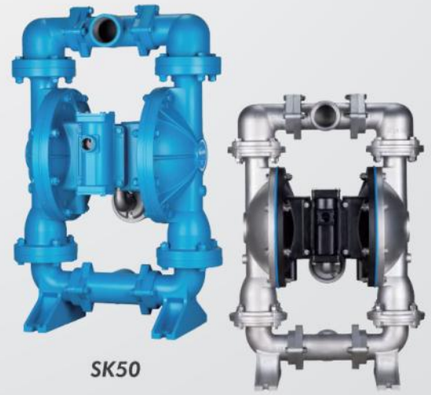
Serial Number	Coding Description
2	**Feed and Discharge Port Size** 15=1/2" 25=1" 40=1.5" 50=2" 80=3"
3 4 5 6	**Air Valve Structure**: 3= Slide valve-type **Pump Shell Material**: A= Aluminum alloy; I= Cast iron; S= Stainless steel (304); X= Stainless steel (316L); H= Hastelloy alloy - C **Intermediate material**: A= Aluminum alloy; T= Aluminum alloy (PTFE coating); S= Stainless steel; P= Polypropylene **Air Valve Material**: A= Aluminum alloy; T= Aluminum alloy (Teflon coating); S= Stainless steel; N=Nickel-plated aluminum alloy
7 8 9	**Diaphragm Material**: EE= Santoprene; NE= Neoprene; BN= Buna-N rubber; ET= Teflon/ Santoprene; NT= Neoprene/Teflon; VT= Fluororubber; GG=EPDM; GT= EPDM/Teflon; MT=Teflon double-layer diaphragm; SA=Santoprene double-layer diaphragm; MM=EPDM double-layer diaphragm **Valve Seat Material**: E= Santoprene; V= Fluororubber; T= Teflon; B= Buna-N rubber; N= Neoprene; G=EPDM; P= Polypropylene; X= Stainless steel (316L); A=Aluminum alloy; C=Ceramics **Valve Ball Material**: E= Santoprene; V= Fluororubber; T= PTFE; B= Buna-N rubber; N= Neoprene; G=EPDM; P= Polypropylene; X= Stainless steel (316L); A=Aluminum alloy; C=Ceramics
10 11 12	**Others** DF0=Flange joint (DIN) AF0=Flange joint (ANSI) JF0=Flange joint (JIS) 0N0=Screw interface (NPT) 0B0=Screw interface (BSPT) 00H=Heavy ball

Products

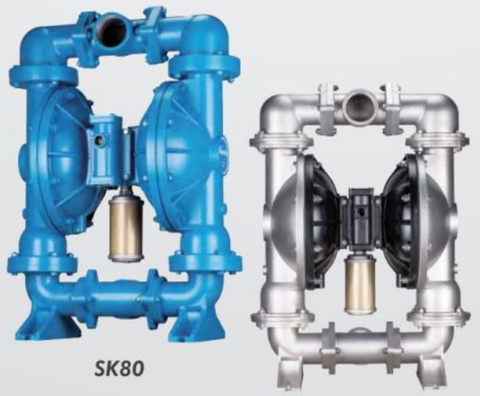
LS15

LS25K

SK40



SK50



SK80

Metal Pump

SK15

Technical Specification

Maximum flow gallon (liter)/minute	15.0 (57)
Output volume of each circulation gallon (liter)	0.040 (0.15)
Air inlet (internal thread)	1/4" BSPT
Fluid inlet (internal thread)	1/2" BSPT
Fluid outlet (internal thread)	1/2" BSPT
Maximum work pressure psi (bar)	125psi (8.6)
Maximum diameter of suspended solid particles inch (mm)	3/32 (2.4mm)
Maximum dry suction height foot (m)	10 (3)

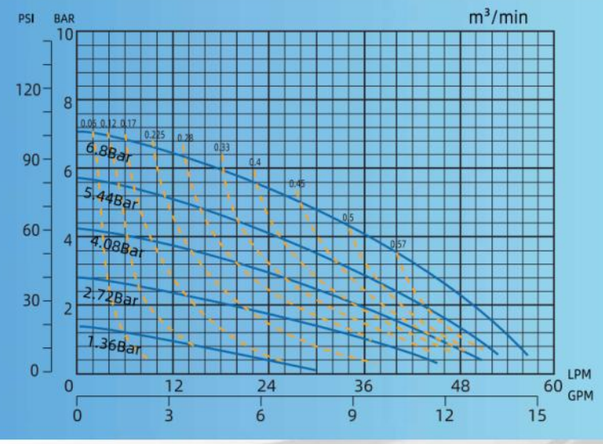
Structure Material of Immersion Part

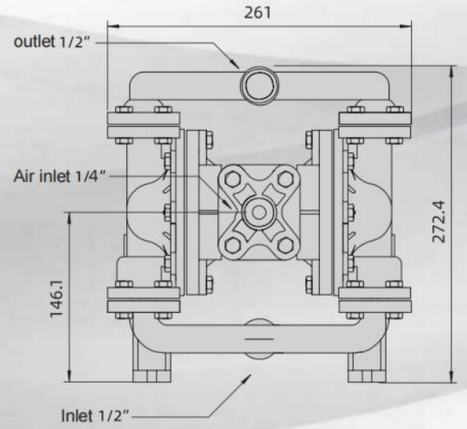
Shell:	aluminum alloy, 316 stainless steel, Hastelloy alloy-C
Diaphragm:	Neoprene, Buna-N rubber, Santoprene, PTFE,EPDM
Ball:	Neoprene, Buna-N rubber, Santoprene, PTFE, 316 stainless steel,EPDM
Ball valve seat:	Polypropylene, Santoprene, PTFE, 316 stainless steel,EPDM

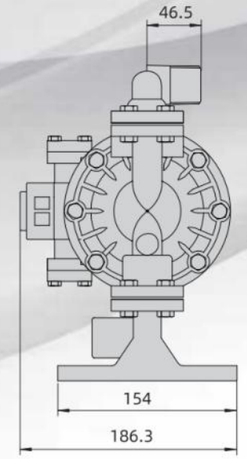
Structure Material of Non-immersion Part

Resin coating aluminum alloy, nickel-plated aluminum alloy, stainless steel

Flow graph







SK15 Fluid Spare Part Package

Fluid Spare Part Package	Teflon diaphragm fluid spare part package	1015.8604
	Santoprene diaphragm fluid spare part package	1015.8608
	Fluororubber diaphragm fluid spare part package	1015.8603
Air spare package package	1015.0000	

Metal Pump

LS25k

Technical Specification

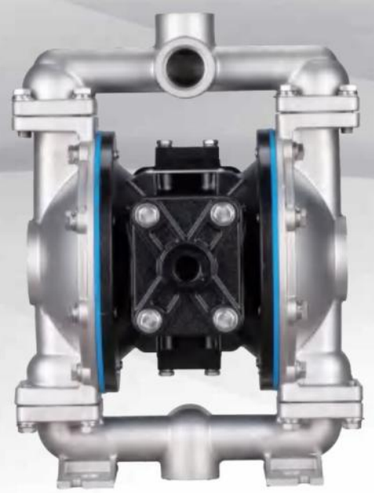
Maximum flow gallon (liter)/minute	40 (150)
Output volume of each circulation gallon (liter)	0.11 (0.42)
Air inlet (internal thread)	1/2" BSPT
Fluid inlet (internal thread)	1" BSPT
Fluid outlet (internal thread)	1" BSPT
Maximum work pressure psi (bar)	125psi (8.6)
Maximum diameter of suspended solid particles inch (mm)	0.25 (6mm)
Maximum dry suction height foot (m)	15 (4.5)

Structure Material of Immersion Part

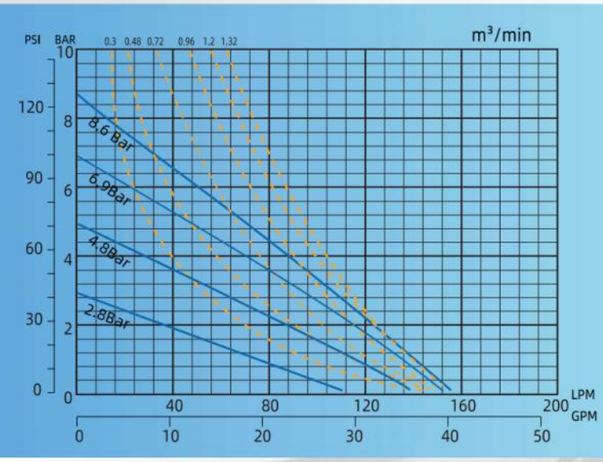
Shell:	aluminum alloy, cast iron, stainless steel, Hastelloy alloy-C
Diaphragm:	Neoprene, Buna-N rubber, Santoprene, PTFE,EPDM
Ball:	Neoprene, Buna-N rubber, Santoprene, PTFE, stainless steel,EPDM
Ball valve seat:	Polypropylene, Santoprene, PTFE, stainless steel,EPDM

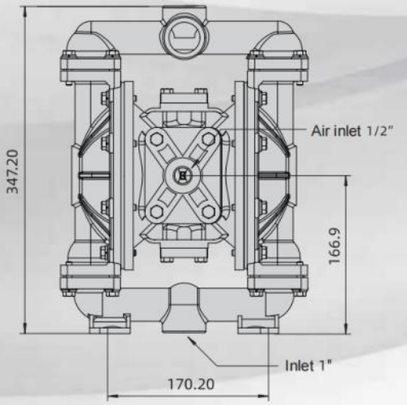
Structure Material of Non-immersion Part

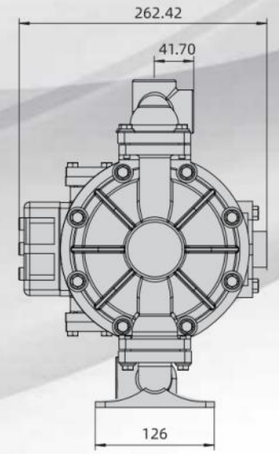
Resin coating aluminum alloy, nickel-plated aluminum alloy, stainless steel



Flow graph







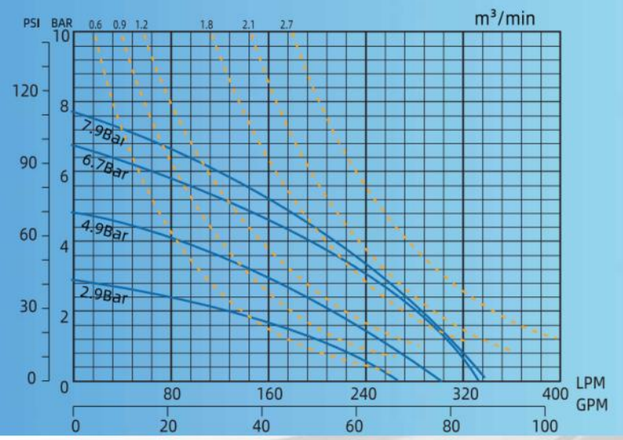
LS25K Fluid Spare Part Package

Fluid Spare Part Package	1" NE fluid spare part package	1025.8002
	1" Teflon rubber fluid spare part package	1025.8004
	1" Santoprene fluid spare part package	1025.8008
	1" EPDM fluid spare part package	1025.9000
Air spare package package	1" Slide valve type gas spare part package	1025.9011

Metal Pump

SK40

Flow graph



Technical Specification

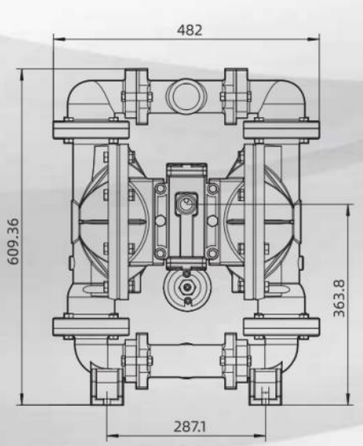
Maximum flow gallon (liter)/minute	90 (340.7)
Output volume of each circulation gallon (liter)	0.34 (1.29)
Air inlet (internal thread)	3/4" BSPT
Fluid inlet (internal thread)	1 1/2" BSPT
Fluid outlet (internal thread)	1 1/2" BSPT
Maximum work pressure psi (bar)	125psi (8.6bar)
Maximum diameter of suspended solid particles inch (mm)	0.25" (6.3mm)
Maximum dry suction height foot (m)	19 (5.8)

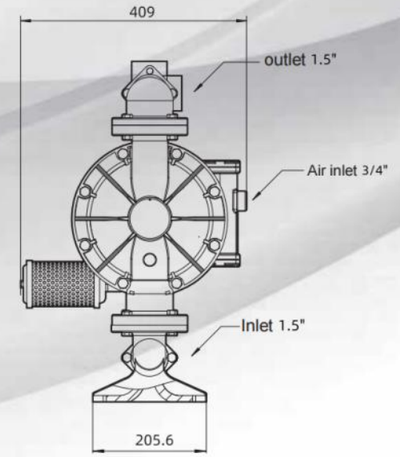
Structure Material of Immersion Part

Shell:	aluminum alloy, cast iron, stainless steel, Hastelloy alloy-C
Diaphragm:	Neoprene, Buna-N rubber, Santoprene, PTFE,EPDM
Ball:	Neoprene, Buna-N rubber, Santoprene, PTFE, stainless steel,EPDM
Ball valve seat:	Polypropylene, Santoprene, PTFE, stainless steel,EPDM

Structure Material of Non-immersion Part

Resin coating aluminum alloy, nickel-plated aluminum alloy, stainless steel





SK40 Fluid Spare Part Package

Fluid Spare Part Package	1.5" NE fluid spare part package	1040.8002
	1.5" Teflon Santoprene fluid spare part package	1040.8084
	1.5" Teflon NE fluid spare part package	1040.8024
	1.5" Santoprene fluid spare part package	1040.8008
	1.5" EPDM fluid spare part package	1045.9000
Air spare package package	1.5" Slide valve type gas spare part package	1045.9150

Metal Pump

SK50

Technical Specification

Maximum flow gallon (liter)/minute	135 (511)
Output volume of each circulation gallon (liter)	0.43 (1.63)
Air inlet (internal thread)	3/4" BSPT
Fluid inlet (internal thread)	2" BSPT
Fluid outlet (internal thread)	2" BSPT
Maximum work pressure psi (bar)	125psi (8.6bar)
Maximum diameter of suspended solid particles inch (mm)	3/8" (9mm)
Maximum dry suction height foot (m)	20 (6)

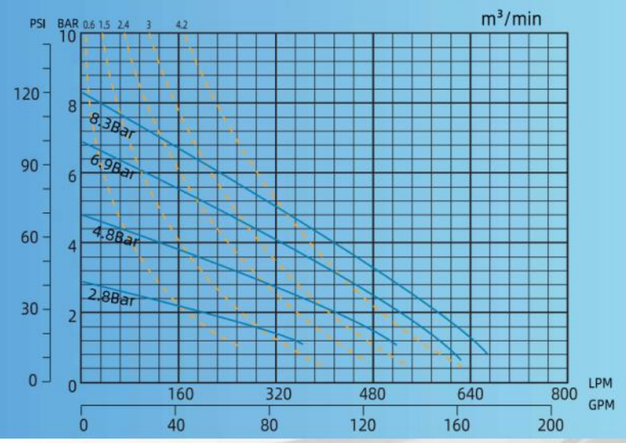
Structure Material of Immersion Part

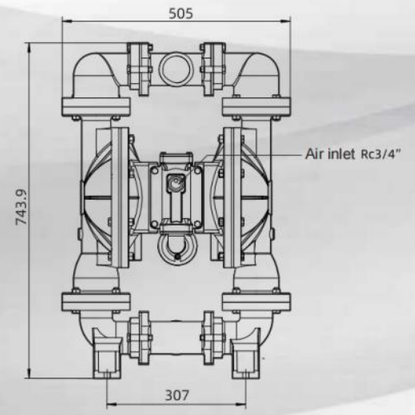
Shell:	aluminum alloy, cast iron, stainless steel, Hastelloy alloy-C
Diaphragm:	Neoprene, Buna-N rubber, Santoprene, PTFE,EPDM
Ball:	Neoprene, Buna-N rubber, Santoprene, PTFE, stainless steel,EPDM
Ball valve seat:	Polypropylene, Santoprene, PTFE, stainless steel,EPDM

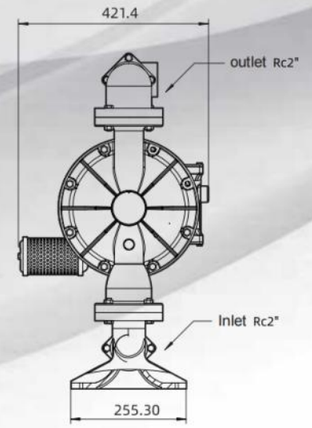
Structure Material of Non-immersion Part

Resin coating aluminum alloy, nickel-plated aluminum alloy, stainless steel

Flow graph







SK50 Fluid Spare Part Package

Fluid Spare Part Package	2" NE fluid spare part package	1050.8002
	2" Teflon Santoprene fluid spare part package	1050.8084
	2" Teflon NE fluid spare part package	1050.8024
	2" Santoprene fluid spare part package	1050.8008
	2" EPDM fluid spare part package	1045.9000
Air spare package package	2" Slide valve type gas spare part package	1045.9150

Metal Pump

SK80

Technical Specification

Maximum flow gallon (liter)/minute	260 (988)
Output volume of each circulation gallon (liter)	0.95 (3.62)
Air inlet (internal thread)	3/4" BSPT
Fluid inlet (internal thread)	3" BSPT
Fluid outlet (internal thread)	3" BSPT
Maximum work pressure psi (bar)	125psi (8.6bar)
Maximum diameter of suspended solid particles inch (mm)	0.47" (12mm)
Maximum dry suction height foot (m)	20 (6)

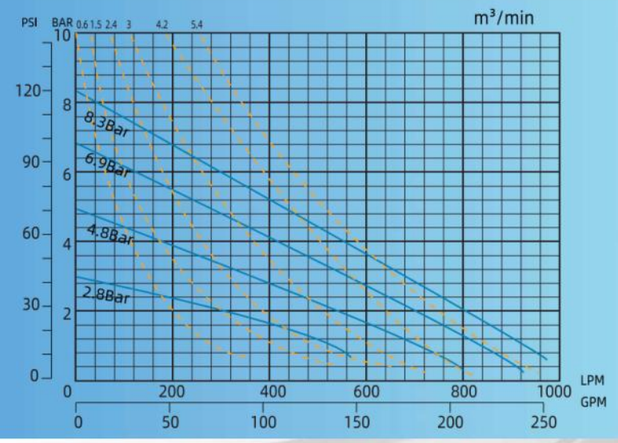
Structure Material of Immersion Part

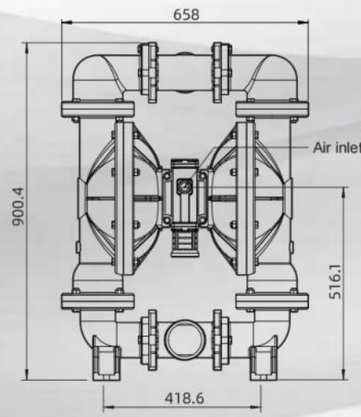
Shell:	aluminum alloy, cast iron, stainless steel, Hastelloy alloy-C
Diaphragm:	Neoprene, Buna-N rubber, Santoprene, PTFE
Ball:	Neoprene, Buna-N rubber, Santoprene, PTFE, stainless steel
Ball valve seat:	Polypropylene, Santoprene, PTFE, stainless steel

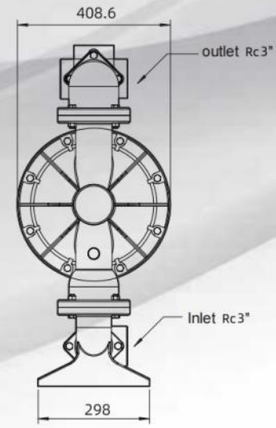
Structure Material of Non-immersion Part

Resin coating aluminum alloy, nickel-plated aluminum alloy, stainless steel

Flow graph







SK80 Fluid Spare Part Package

Fluid Spare Part Package	3" NE fluid spare part package	1080.8002
	3" Teflon Santoprene fluid spare part package	1080.8084
	3" Teflon NE fluid spare part package	1080.8024
	3" Santoprene fluid spare part package	1080.8008
	3" EPDM fluid spare part package	1080.9000
Air spare package package	3" Slide valve type gas spare part package	1080.9150

Model Selection of PS Series Diaphragm Pump

SKYLINK AODD PUMP

PLASTIC PUMP

Skylink Air-operated Double Diaphragm Plastic Pump

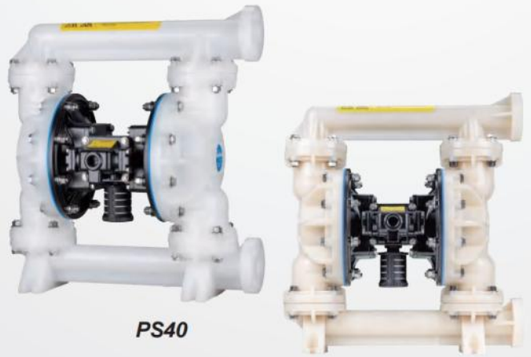
Code	PS	25	,	PP	-	AT	-	SP	-	PP	-	SP	-	0F	/	M
Serial Number	1	2		3		4		5		6		7		8		9

PS Series

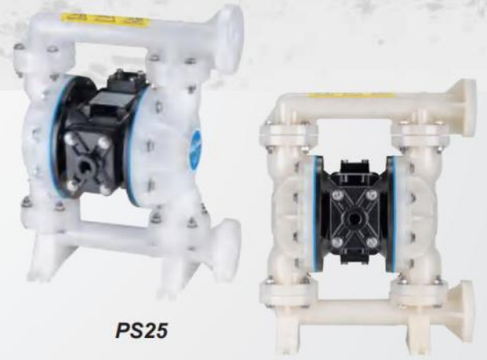
Serial Number	Coding Description		
	Feed and Discharge Port Size		
2	15=1/2" 25=1" 40=1.5" 50=2" 80=3"		
3 4	**Pump Shell Material** PP=Polypropylene KY=PVDF PH=PPH	**Air Valve Material** AT= Aluminum alloy PP= Polypropylene	
5 6 7	**Diaphragm Material** SP= Santoprene T/S= Teflon/ Santoprene NE= Neoprene BN= Buna-N rubber T/N= Teflon/Neoprene VT= Fluororubber	**Valve Seat Material** PP= Polypropylene KY= PVDF	**Valve Ball Material** SP= Santoprene TT= PTFE NE= Neoprene BN= Buna-N rubber VT= Fluororubber
8 9	**Connection** 00=Screw interface (BSPT) 01=Screw interface (NPT) 0F=Flange joint (ANSI/DIN)	**Others** M=Intermediate import and export	

Products

PS15



PS40



PS25

PS80

PS50

Plastic Pump

PS 15

Technical Specification

Maximum flow gallon (liter)/minute	13.5 (52)
Output volume of each circulation gallon (liter)	0.040 (0.15)
Air inlet (internal thread)	1/4" BSPT
Fluid inlet (internal thread)	1/2" BSPT
Fluid outlet (internal thread)	1/2" BSPT
Maximum work pressure psi (bar)	100 (6.9)
Maximum diameter of suspended solid particles inch (mm)	0.118 (3mm)
Maximum dry suction height foot (m)	9.8(3)

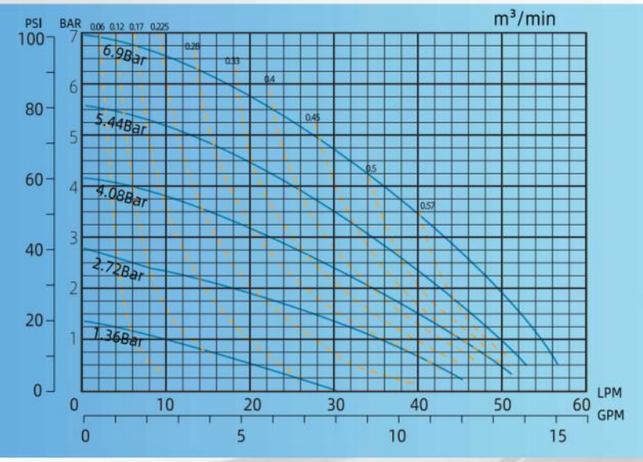
Structure Material of Immersion Part

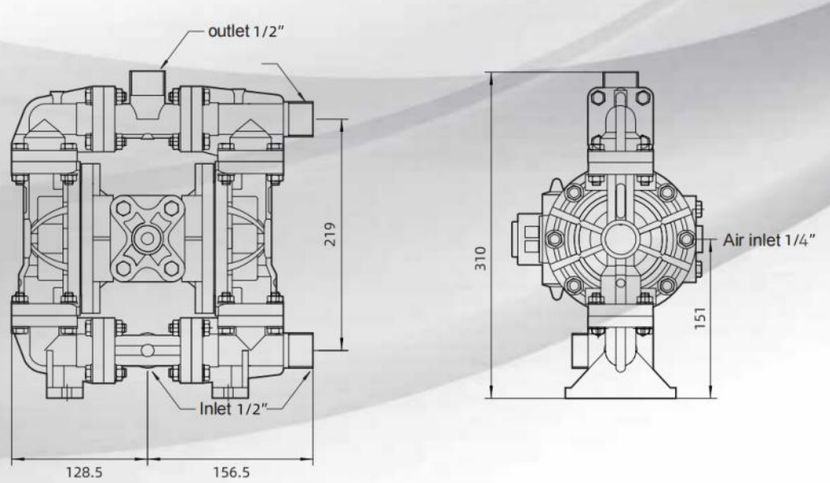
Shell:	Polypropylene, PPH, PVDF
Diaphragm:	Neoprene, Buna-N rubber, Santoprene, PTFE,Fluororubber
Ball:	Neoprene, Buna-N rubber, Santoprene, PTFE, Fluororubber
Ball valve seat:	Polypropylene, PPH, PVDF

Structure Material of Non-immersion Part

aluminum alloy, Polypropylene

Flow graph





PS15 Fluid Spare Part Package

Fluid Spare Part Package	Teflon diaphragm fluid spare part package	0015.8604
	Santoprene diaphragm fluid spare part package	0015.8608
	Fluororubber diaphragm fluid spare part package	0015.8603
Air spare package package	0015.0000	

Plastic Pump

PS 25

Technical Specification

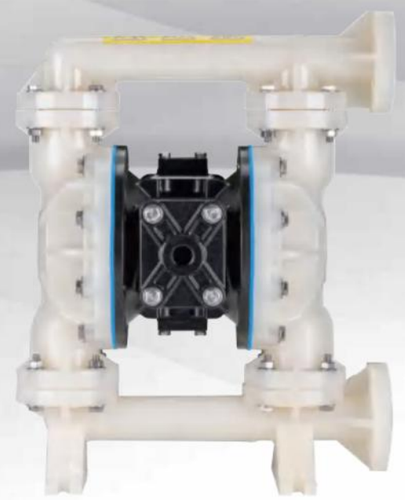
Maximum flow gallon (liter)/minute	42 (158)
Output volume of each circulation gallon (liter)	0.11 (0.42)
Air inlet (internal thread)	1/2" BSPT
Fluid inlet (internal thread)	1" BSPT
Fluid outlet (internal thread)	1" BSPT
Maximum work pressure psi (bar)	100 (6.9)
Maximum diameter of suspended solid particles inch (mm)	0.25 (6 mm)
Maximum dry suction height foot (m)	11.5(3.5)

Structure Material of Immersion Part

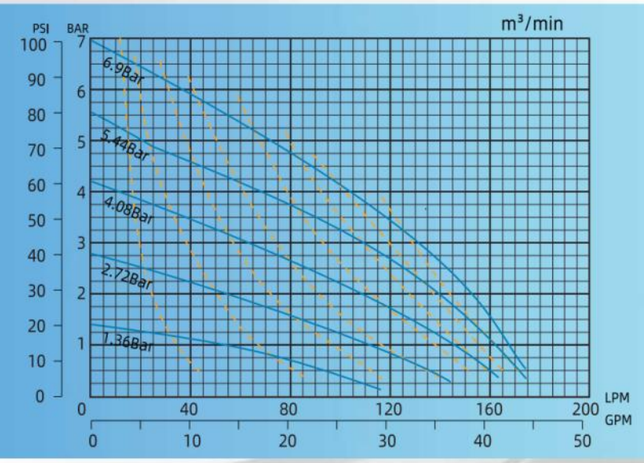
Shell:	Polypropylene, PPH, PVDF
Diaphragm:	Neoprene, Buna-N rubber, Santoprene, PTFE,Fluororubber
Ball:	Neoprene, Buna-N rubber, Santoprene, PTFE, Fluororubber
Ball valve seat:	Polypropylene, PPH, PVDF

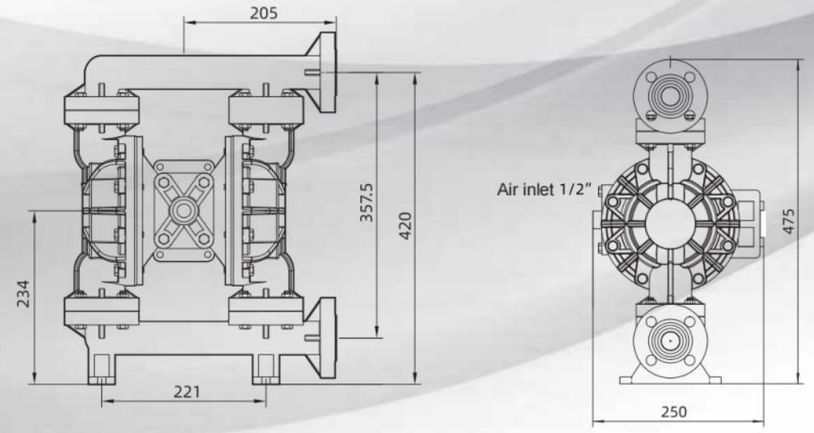
Structure Material of Non-immersion Part

aluminum alloy, Polypropylene



Flow graph





PS25 Fluid Spare Part Package

Fluid Spare Part Package	1" NE fluid spare part package	0025.8002
	1" Teflon rubber fluid spare part package	0025.8004
	1" Santoprene fluid spare part package	0025.8008
	1" EPDM fluid spare part package	0025.9000
Air spare package package	1" Slide valve type gas spare part package	0025.9011

Plastic Pump

PS 40

Technical Specification

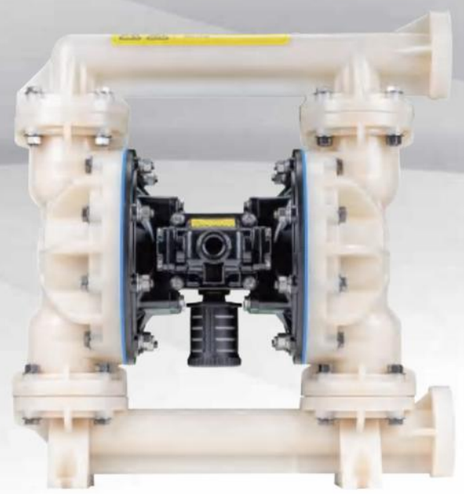
Maximum flow gallon (liter)/minute	90 (340)
Output volume of each circulation gallon (liter)	0.34(1.29)
Air inlet (internal thread)	3/4" BSPT
Fluid inlet (internal thread)	1-1/2" BSPT
Fluid outlet (internal thread)	1-1/2" BSPT
Maximum work pressure psi (bar)	100 (6.9)
Maximum diameter of suspended solid particles inch (mm)	0.25 (6 mm)
Maximum dry suction height foot (m)	11.5(3.5)

Structure Material of Immersion Part

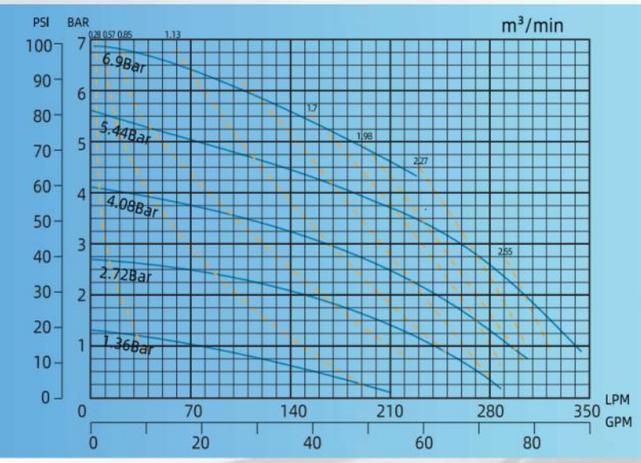
Shell:	Polypropylene, PPH, PVDF
Diaphragm:	Neoprene, Buna-N rubber, Santoprene, PTFE,Fluororubber
Ball:	Neoprene, Buna-N rubber, Santoprene, PTFE, Fluororubber
Ball valve seat:	Polypropylene, PPH, PVDF

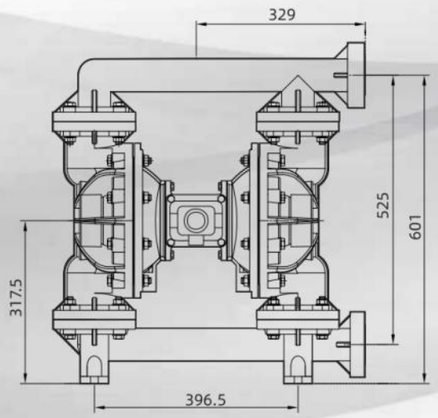
Structure Material of Non-immersion Part

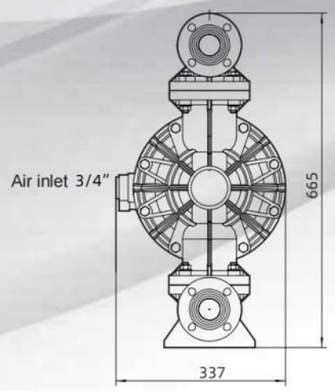
aluminum alloy, Polypropylene



Flow graph







PS40 Fluid Spare Part Package

Fluid Spare Part Package	1.5" NE fluid spare part package	0040.8002
	1.5" Teflon Santoprene fluid spare part package	0040.8084
	1.5" Teflon NE fluid spare part package	0040.8024
	1.5" Santoprene fluid spare part package	0040.8008
	1.5" EPDM fluid spare part package	0045.9000
Air spare package package	1.5" Slide valve type gas spare part package	0045.9150

Plastic Pump

PS 50

Technical Specification

Maximum flow gallon (liter)/minute	135(511)
Output volume of each circulation gallon (liter)	0.43(1.63)
Air inlet (internal thread)	3/4" BSPT
Fluid inlet (internal thread)	2 " BSPT
Fluid outlet (internal thread)	2 " BSPT
Maximum work pressure psi (bar)	100 (6.9)
Maximum diameter of suspended solid particles inch (mm)	0.35 (9 mm)
Maximum dry suction height foot (m)	16.4(5)

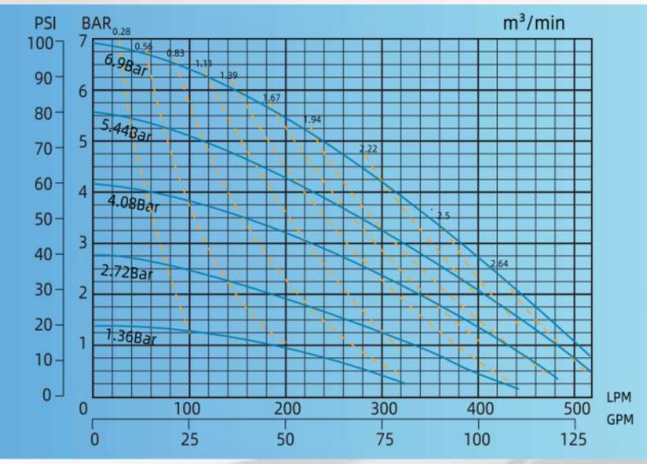
Structure Material of Immersion Part

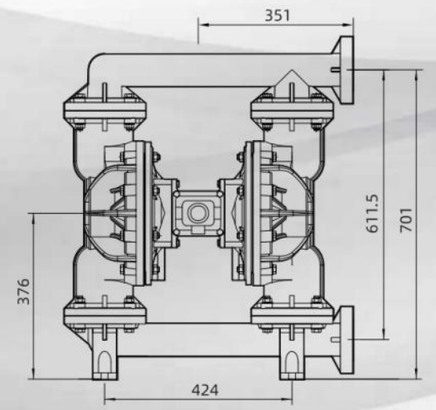
Shell:	Polypropylene, PPH, PVDF
Diaphragm:	Neoprene, Buna-N rubber, Santoprene, PTFE,Fluororubber
Ball:	Neoprene, Buna-N rubber, Santoprene, PTFE, Fluororubber
Ball valve seat:	Polypropylene, PPH, PVDF

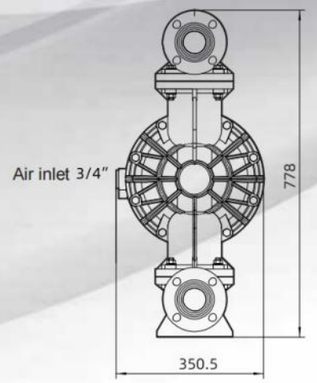
Structure Material of Non-immersion Part

aluminum alloy, Polypropylene

Flow graph







PS50 Fluid Spare Part Package

Fluid Spare Part Package	2" NE fluid spare part package	0050.8002
	2" Teflon Santoprene fluid spare part package	0050.8084
	2" Teflon NE fluid spare part package	0050.8024
	2" Santoprene fluid spare part package	0050.8008
	2" EPDM fluid spare part package	0050.9000
Air spare package package	2" Slide valve type gas spare part package	0050.9150

Plastic Pump

PS 80

Technical Specification

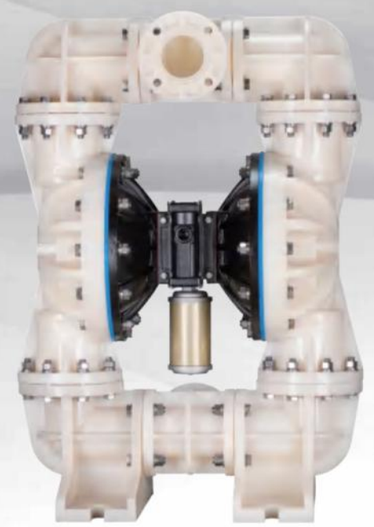
Maximum flow gallon (liter)/minute	238(900)
Output volume of each circulation gallon (liter)	0.95(3.62)
Air inlet (internal thread)	3/4" BSPT
Fluid inlet (internal thread)	3 " BSPT
Fluid outlet (internal thread)	3 " BSPT
Maximum work pressure psi (bar)	100 (6.9)
Maximum diameter of suspended solid particles inch (mm)	0.6 (15mm)
Maximum dry suction height foot (m)	16.4(5)

Structure Material of Immersion Part

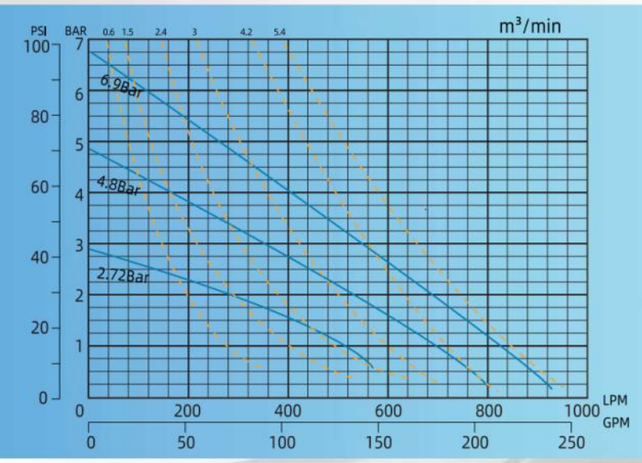
Shell:	Polypropylene, PPH, PVDF
Diaphragm:	Neoprene, Buna-N rubber, Santoprene, PTFE,Fluororubber
Ball:	Neoprene, Buna-N rubber, Santoprene, PTFE, Fluororubber
Ball valve seat:	Polypropylene, PPH, PVDF

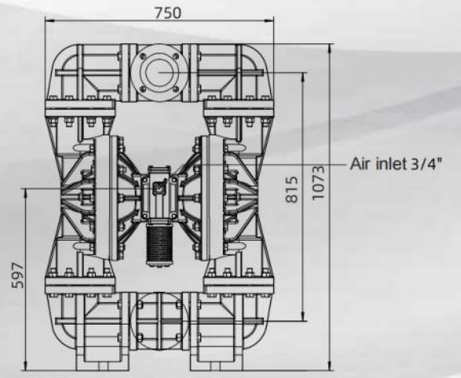
Structure Material of Non-immersion Part

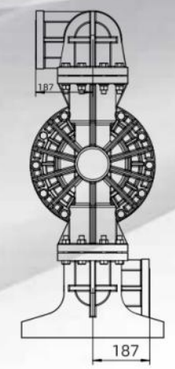
aluminum alloy, Polypropylene



Flow graph







PS80 Fluid Spare Part Package

Fluid Spare Part Package	3" NE fluid spare part package	0080.8002
	3" Teflon Santoprene fluid spare part package	0080.8084
	3" Teflon NE fluid spare part package	0080.8024
	3" Santoprene fluid spare part package	0080.8008
	3" EPDM fluid spare part package	0080.9000
Air spare package package	3" Slide valve type gas spare part package	0080.9150

Powder Transfer Pump

PDSK SERIES

- ◇ The equipment is an alternative to manual powder conveying
- ◇ and can achieve continuous powder transfer without fault
- ◇ The fully enclosed conveying mode reduces dust pollution and raw material waste in the workplace
- ◇ The equipment boasts a maximum siphon height of 5m, and a maximum conveying capacity of 5,500Kg/h
- ◇ It can replace air mixing conveying, spiral conveying and scraper conveying
- ◇ The bulk density of powder is up to 0.8g/cm3, such as carbon black, pigment powder combustion aid, expanded mica, silicone, acrylic resin, 3D and other materials

Code	PDSK	50		3	X	X	X		EE	E	E		0B0
Serial Number	1	2		3	4	5	6		7	8	9		10

PDSK Series

Serial Number	Coding Description				
2 3 4 5 6	Feed and Discharge Port Size	Air Valve Structure	Pump Shell Material	Intermediate material	Air Valve Material
	40= 1.5"	3= Slide valve-type	A= Aluminum alloy	A= Aluminum alloy	A= Aluminum alloy
	50=2"		I= Cast iron	T= Aluminum alloy (PTFE coating)	T= Aluminum alloy (Teflon coating)
	80=3"		S= Stainless steel (304)	S= Stainless steel	S= Stainless steel
			X= Stainless steel (316L)	P= Polypropylene	
			H= Hastelloy alloy - C		
7 8 9 10	Diaphragm Material	Valve Seat Material	Valve Ball Material	Others	
	EE= Santoprene	E= Santoprene	E= Santoprene	DF0=Flange joint (DIN)	
	NE= Neoprene	V= Fluororubber	V= Fluororubber	AF0=Flange joint (ANSI)	
	BN= Buna-N rubber	T= Teflon	T= PTFE	JF0=Flange joint (JIS)	
	ET= Teflon/ Santoprene	B= Buna-N rubber	B= Buna-N rubber	0N0=Screw interface (NPT)	
	NT= Neoprene/Teflon	N= Neoprene	N= Neoprene	0B0=Screw interface (BSPT)	
	VT= Fluororubber	P= Polypropylene	G=EPDM	0K0=SMS Tri-Clamp	
	GG=EPDM	X= Stainless steel (316L)	P= Polypropylene	00H=Heavy ball	
	GT= EPDM/Teflon	S=Stainless steel (304)	X= Stainless steel (316L)		
	MT=Teflon double-layer diaphragm		A=Aluminum alloy		
	SA=Santoprene double-layer diaphragm		C=Ceramics		
	MM=EPDM double-layer diaphragm				

PDSK Series Technical Specifications

Model	Accumulated density	Inlet size	Inlet	Outlet	Connection methods	Maximum suction capacity	Maximum flow rate
PDSK40	0.08-0.8 g/cm³	3/4"BSPT	38mm (1.5")	38mm (1.5")	BSPT/NPT (Threaded) ANSI/DIN/JIS (Flanged) SMS (Tri-Clamp)	5.8m (19')Dry	2500 Kg/h
PDSK50	0.08-0.8 g/cm³	3/4"BSPT	51mm (2")	51mm (2")	BSPT/NPT (Threaded) ANSI/DIN/JIS (Flanged) SMS (Tri-Clamp)	6m (20') Dry	3500 Kg/h
PDSK80	0.08-0.8 g/cm³	3/4"BSPT	76mm (3")	76mm (3")	BSPT/NPT (Threaded) ANSI/DIN/JIS (Flanged) SMS (Tri-Clamp)	6m (20') Dry	5500 Kg/h

Model	Maximum operating pressure	Maximum particle diameter	Displacement per stroke	Casing material	Weight	Maximum working temperature
PDSK40	8.6Bar (125psi)	6.3mm (1/4")	1.2L(0.34gal) *1 cycle=2 strokes	AL/316L/CI	36kg (AL)/56 (CI/316L)	135℃ (275°F)
PDSK50	8.6Bar (125psi)	9mm (3/8")	1.63L(0.43gal) *1 cycle=2 strokes	AL/316L/CI	43kg (AL)/73 (CI/316L)	135℃ (275°F)
PDSK80	8.6Bar (125psi)	12mm (0.472")	3.62L(0.95gal) *1 cycle=2 strokes	AL/316L/CI	75kg (AL)/138 (CI/316L)	135℃ (275°F)

FSeries Hygienic Pump/ SF Series FDA Pump

F/SF SERIES

- Both CIP and SIP are available
- Integrated diaphragm design eliminates potential local residues
- Surface mirror finishing features a roughness < 0.4/0.8um, with no residue in dead corners, easy to clean
- The inlet and outlet features a quick-connect structure, which is convenient for installation, disassembly and repair
- The spiral bracket is convenient to clean and empty
- complying with FDA and 3A standards
- It is applicable to material conveying with strict standards and requirements
- It is suitable for conveying processes of pasteurized products, protein-based product, and biopharmaceutical aseptic processes, etc.

F/SF Series Technical Specifications

Model	Surface roughness	Inlet size	Inlet	Outlet	Connection methods	Maximum suction capacity	Maximum flow rate
F20	0.4/0.8	1/4"BSPT	0.5"	1"	SMS (Tri-Clamp)	3m (12') Dry 9m (30') Wet	57lpm (15gpm)
F25	0.4/0.8	1/2"BSPT	1"	1"	SMS (Tri-Clamp)	4m (13') Dry 9.2m (30') Wet	150lpm (39gpm)
F40	0.4/0.8	3/4"BSPT	2"	2"	SMS (Tri-Clamp)	5.8m (19') Dry 9.2m(29.5') Wet	340.7lpm (90gpm)
F50	0.4/0.8	3/4"BSPT	2.5"	2.5"	SMS (Tri-Clamp)	6m (20') Dry 9.2m (30') Wet	500lpm (132gpm)
F80	0.4/0.8	3/4"BSPT	3"	3"	SMS (Tri-Clamp)	7 m (23') Dry 9.5m (30') Wet	988lpm (260gpm)
SF25	0.8	1/2"BSPT	1"	1"	SMS (Tri-Clamp)	4m (13') Dry 9.2m (30') Wet	150lpm (39gpm)
SF40	0.8	3/4"BSPT	2"	2"	SMS (Tri-Clamp)	5.8m (19') Dry 9.2m (29.5') Wet	340.7lpm (90gpm)
SF50	0.8	3/4"BSPT	2.5"	2.5"	SMS (Tri-Clamp)	6m (20') Dry 9.2m (30') Wet	500lpm (132gpm)
SF80	0.8	3/4"BSPT	3"	3"	SMS (Tri-Clamp)	7m (23') Dry 9.5m (30') Wet	988lpm (260gpm)

Model	Maximum operating pressure	Maximum particle diameter	Displacement per stroke	Casing material	Weight	Maximum working temperature
F20	8.6Bar (125psi)	2.4mm(0.09")	0.15L (0.04gal) *1 cycle=2 strokes	316L	11KG	135℃ (275℉)
F25	8.6Bar (125psi)	6mm (1/4")	0.3L (0.08gal) *1 cycle=2 strokes	316L	16KG	135℃ (275℉)
F40	8.6Bar (125psi)	8mm (0.315")	1.1L (0.29gal) *1 cycle=2 strokes	316L	55KG	135℃ (275℉)
F50	8.6Bar (125psi)	9mm (0.375")	2.6L (0.7gal) *1 cycle=2 strokes	316L	67KG	135℃ (275℉)
F80	8.6Bar (125psi)	15mm (0.6")	5.15L (1.32gal) *1 cycle=2 strokes	316L	115KG	135℃ (275℉)
SF25	8.6Bar (125psi)	6mm (1/4")	0.3L (0.08gal) *1 cycle=2 strokes	316L	16KG	135℃ (275℉)
SF40	8.6Bar (125psi)	8mm (0.315")	1.1L (0.29gal) *1 cycle=2 strokes	316L	50KG	135℃ (275℉)
SF50	8.6Bar (125psi)	9mm (0.375")	2.6L (0.7gal) *1 cycle=2 stroke	316L	62KG	135℃ (275℉)
SF80	8.6Bar (125psi)	15mm (0.6")	5.15L (1.32gal) *1 cycle=2 strokes	316L	105KG	135℃ (275℉)

Code	F	40		X	AN		EE	E	V		0K0
Serial Number	1	2		3	4		5	6	7		8

F/SF Series

Serial Number	Coding Description			
1 2 3 4	**Model**	**Feed and Discharge Port Size**	**Pump Shell Material**	**Intermediate material**
	F= Hygienic SF= FDA	20=1" 25=1" 40= 1.5" 50=2" 80=3"	S= Stainless steel (304) X= Stainless steel (316L)	AN= Nickel-plated aluminum
5 6 7 8	**Diaphragm Material**	**Valve Ball Material**	**Valve Ball Material**	**Others**
	MT=Teflon double-layer diaphragm SA=Santoprene double-layer diaphragm MM=EPDM double-layer diaphragm	E= Santoprene V= Fluororubber T= Teflon M= EPDM X= Stainless steel (304) S=Stainless steel (316L)	V= Fluororubber T= PTFE M= EPDM	0K0=SMS Tri-Clamp 00C=Type of sensor

High Pressure Pump

H SERIES

- Maximum pressure 14 ar (203 psi), maximum flow rate 790 lpm (209 gpm)
- The bolt structure ensures the firmness of high pressure conveying, preventing leakage and reducing maintenance costs
- It can convey high viscosity and high solid content media in longer distances
- It is applicable to filter press systems and high-lift or long-distance conveying of ceramic slurry, chemical sludge, etc.

Code	H	50		3	X	A	A		NE	N	N		0B0
Serial Number	1	2		3	4	5	6		7	8	9		10

PDSK Series

Serial Number: 2 3 4 5 6

Coding Description

Feed and Discharge Port Size	Air Valve Structure	Pump Shell Material	Intermediate material	Air Valve Material
40= 1.5" 50=2" 80=3"	3= Slide valve-type	I= Cast iron S= Stainless steel (304) X= Stainless steel (316L) H= Hastelloy alloy - C	A= Aluminum alloy (PTFE coating) S= Stainless steel P= Polypropylene	A= Aluminum alloy T= Aluminum alloy (Teflon coating) S= Stainless steel

7 8 9 10

Diaphragm Material	Valve Seat Material	Valve Ball Material	Others
EE= Santoprene NE= Neoprene BN= Buna-N rubber ET= Teflon/ Santoprene NT= Neoprene/Teflon VT= Fluororubber	E= Santoprene V= Fluororubber T= Teflon B= Buna-N rubber N= Neoprene P= Polypropylene X= Stainless steel (316L) S=Stainless steel (304)	E= Santoprene V= Fluororubber T= PTFE B= Buna-N rubber N= Neoprene P= Polypropylene X= Stainless steel (316L) S=Stainless steel (304)	DF0=Flange joint (DIN) AF0=Flange joint (ANSI) JF0=Flange joint (JIS) 0N0=Screw interface (NPT) 0B0=Screw interface (BSPT) 00H=Heavy ball

H Series Technical Specifications

Model	Ratio	Inlet size	Inlet	Outlet	Connection methods	Maximum suction capacity	Maximum flow rate
H40	2:1	3/4"BSPT	1.5"	1.5"	BSPT/NPT (Threaded) DIN/ANSI/JIS (Flanged) SMS (Tri-Clamp)	5.8m (19') Dry 9.2m (29.5') Wet	282lpm(75gpm)
H50	2:1	3/4"BSPT	2"	2"	BSPT/NPT (Threaded) DIN/ANSI/JIS (Flanged) SMS (Tri-Clamp)	6m (20') Dry 9.2m (30') Wet	385lpm (102gpm)
H80	2:1	3/4"BSPT	3"	3"	BSPT/NPT (Threaded) DIN/ANSI/JIS (Flanged) SMS (Tri-Clamp)	6m (20') Dry 9.5m (30') Wet	790lpm(209gpm)

Model	Maximum operating pressure	Maximum particle diameter	Displacement per stroke	Casing material	Weight	Maximum working temperature
H40	14Bar (203psi)	6.3mm (0.207")	1.1L (0.29gal) *1 cycle=2 strokes	316L/CI	76KG(CI/316L)	135℃ (281℉)
H50	14Bar (203psi)	9mm (0.375")	2.6L (0.7gal) *1 cycle=2 strokes	316L/CI	93KG(CI/316L)	135℃ (281℉)
H80	14Bar (203psi)	15mm (0.6")	5.15L (1.32gal) *1 cycle=2 strokes	316L/CI	200KG(CI/316L)	135℃ (281℉)

Flap Pump

SA SERIES

- It is specially designed for handling sticky, fibrous, rough, slurry materials or materials with large solid particles
- The unique top feeding and bottom discharge method is adopted to avoid damage caused by solid sedimentation
- The bolt structure provides good sealing performance
- It can pass large solid particles with a diameter of up to 50mm or compressible elastic solids with a diameter of 76mm
- It is suitable for filter press feeding, waste treatment, drainage, filling material conveying, etc.

Code	SA	50		3	A	A	A		EE	X	B		0B0
Serial Number	1	2		3	4	5	6		7	8	9		10

PDSK Series

Serial Number	Coding Description				
2 3 4 5 6	Feed and Discharge Port Size	Air Valve Structure	Pump Shell Material	Intermediate material	Air Valve Material
	25= 1" 50=2" 80=3"	3= Slide valve-type	A= Aluminum alloy I= Cast iron S= Stainless steel (304) X= Stainless steel (316L) H= Hastelloy alloy - C	A= Aluminum alloy T= Aluminum alloy (PTFE coating) S= Stainless steel P= Polypropylene	A= Aluminum alloy T= Aluminum alloy (Teflon coating) S= Stainless steel N=Nickel-plated aluminum alloy
7 8 9 10	Diaphragm Material	Valve Seat Material	Flap Material	Others	
	EE= Santoprene NE= Neoprene BN= Buna-N rubber ET= Teflon/ Santoprene NT= Neoprene/Teflon VT= Fluororubber GG=EPDM GT= EPDM/Teflon MT=Teflon double-layer diaphragm SA=Santoprene double-layer diaphragm MM=EPDM double-layer diaphragm	X= Stainless steel (316L) A=Aluminum alloy	E= Santoprene V= Fluororubber B= Buna-N rubber N= Neoprene G=EPDM	DF0=Flange joint (DIN) AF0=Flange joint (ANSI) JF0=Flange joint (JIS) 0N0=Screw interface (NPT) 0B0=Screw interface (BSPT) 0K0=SMS Tri-Clamp	

SA Series Technical Specifications

Model	Inlet size	Inlet	Outlet	Connection methods	Maximum suction capacity	Maximum flow rate
SA25	1/2"BSPT	25mm (1")	25mm (1")	BSPT/NPT (Threaded) ANSI/DIN/JIS (Flanged) SMS (Tri-Clamp)	3.5m (12') Dry 9.2m (30') Wet	150lpm (40gpm)
SA50	3/4"BSPT	51mm (2")	51mm (2")	BSPT/NPT (Threaded) ANSI/DIN/JIS (Flanged) SMS (Tri-Clamp)	6m (20') Dry 9.2m (30') Wet	511lpm (135gpm)
SA80	3/4"BSPT	76mm (3")	76mm (3")	BSPT/NPT (Threaded) ANSI/DIN/JIS (Flanged) SMS (Tri-Clamp)	6m (20') Dry 9.5m (30') Wet	988lpm (260gpm)

Model	Maximum operating pressure	Maximum particle diameter	Displacement per stroke	Casing material	Maximum working temperature
SA25	8.6Bar (125psi)	25mm (1")	0.42L(0.11gal) *1 cycle=2 strokes	304/316L/AL/CI/H	135℃ (275℉)
SA50	8.6Bar (125psi)	45mm (1.8")	1.63L(0.43gal) *1 cycle=2 strokes	304/316L/AL/CI/H	135℃ (275℉)
SA80	8.6Bar (125psi)	50mm (2")	3.62L(0.95gal) *1 cycle=2 strokes	304/316L/AL/CI/H	135℃ (275℉)