

Air Operated Double Diaphragm Pumps

for marine, industrial and mining applications

Teryair AODD pumps



Teryair manufactures a growing programme of pneumatic equipment and tools. The equipment boasts of cutting edge features, comparable with the worlds best technologies, and compete successfully, feature for feature, with the industry leading brands and all this at competitive pricing.

Prominent among the equipment is the lineup of Teryair pneumatic air operated double diaphragm pump range. These pumps are being currently exported to over 40 countries, both as a teryair product and under private label arrangements.

Last year teryair produced and sold over 9000 pumps and there is an ambitious growth plan in the coming years.

In India and around the world, teryair pumps are supported by strong no nonsense warranties and a promise of quick supply of spares.

Why Teryair AODD Pumps ?

Every pump is duration tested on a test bench at maximum load. Every pump performance parameter is recorded and traceable. This ensures unparalleled pump reliability.

An overview of the air manufacturing process under an ISO 9001:2015 environment. Pumps from Teryair are CE and Ex-certified.



Manufacturing Facilities

Research and Development

Teryair employs cutting edge design software and has trained engineers. They have been consistently improving the product by listening to user feedback. And new products are being launched every year.

Quality Assurance

Under the environment of ISO 9001 system, Teryair ensures that customer expectations are met and exceeded.

Infrastructure

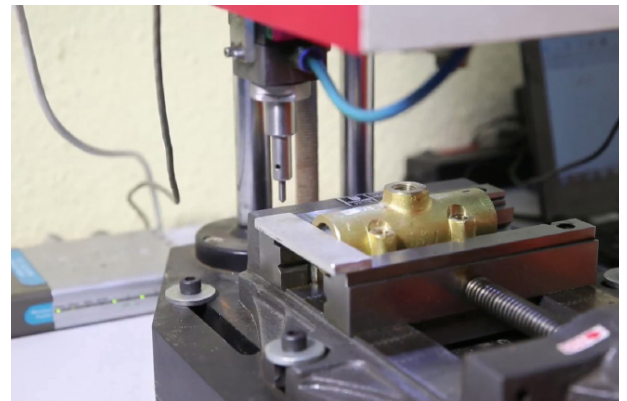
Teryair is located on the outskirts of Mumbai, India's thriving hub of commerce and industry. The factories are fully equipped to produce quality pneumatic equipment. All critical components are manufactured in-house and this way a strict control on production planning, timely delivery assurance and quality control is achieved.



Teryair AODD pumps

Teryair diaphragm pump advantages

- Pumps variety of fluids
- Easy startups, no priming
- No foaming or shearing of the product being pumped
- No decline in pumping efficiency over time, diaphragm replacement restores pump to original efficiency
- No damage due to running without lubrication (MaxFlo fitted pumps)
- Solid particle handling
- No damage when stalled or overloaded.
- Capable in submersible, flooded or negative suction orientations
- Explosion proof, Atex Certified
- No mechanical seals to replace
- Variable flow
- Suited for fixed and portable applications.



Diaphragm Pump Applications

Teryair pumps are versatile workhorses that can be used in a variety of pumping situations across numerous industries. Almost every type of liquid can be handled by these pumps.

Some of the typical industries are shown below



PACKAGING



PAINT



CHEMICAL



CONSTRUCTION



OFFSHORE



SHIPPING



CERAMIC



PHARMACEUTICALS



MINING

How to select right diaphragm pump for your application

Follow the steps outlined here to arrive at the best match

1

Gather your application data first, Following data is important.

Fluid to be pumped and its physical and chemical characteristics

- Viscosity
- pH value
- Specific Gravity
- Size of suspended solids, if any
- Discharge rate required
- Head at which discharge is required
- Suction head if any
- Pipe line diameter intended/existing and no. of bends

2

Select the diaphragm, Terryair offers the following material choices

Neoprene

An excellent general purpose diaphragm for use in non-aggressive applications such as water-based slurries, well water or sea water. Exhibits excellent flex life and low cost.

Temperature range -18° C to +93° C (0° F to +200° F)

Nitrile

Excellent for applications involving petroleum / oil-based fluids such as leaded gasolines, fuel oils, non-synthetic hydraulic oils, kerosene, turpentine and motor oils.

Temperature range -12° C to +82° C (+10° F to +180° F)

Viton

Excellent for use in applications requiring extremely hot temperatures. May also be used with aggressive fluids such as aromatic or chlorinated hydrocarbons and highly aggressive acids. Especially where high suction lift is important.

Temperature range -40° C to +177° C (-40° F to + 350° F)

PTFE

Excellent choice when pumping highly aggressive fluids such as aromatic or chlorinated hydrocarbons, acids, caustics, ketones and acetates.

Temperature range +4° C to +104° C (+40° F to +220° F)

Santoprene

Good abrasion resistance. Low cost. Can handle mild acids and alkalis well. Excellent low cost alternative to ptf. Excellent suction capabilities Excellent general purpose diaphragm.

Temperature range -40° C to +107° C (-40° F to +225° F)

Hytrel

Good abrasion resistance. Low cost. . Excellent suction capabilities Excellent general purpose diaphragm. Temperature range -29° C to +104° C (-20° F to +220° F)

3

Once the diaphragm material is chosen, select the correct material of construction of the pump. terryair offers following material of construction choices:

Aluminium

Good for fluids having pH between 5.5 and 8.5 Temperature only limited only by diaphragm limits

Stainless Steel 316L

Good for stronger concentrated acids and alkaline fluids. Stainless Steel is durable and rugged. Temperature only limited by diaphragm limits

Polypropylene

Good alternative low cost choice where fluid is compatible especially chemical compatibility and temperatures. Polypropylene is good between Temperature ranges of +120 C to +1070 C and +320 F to +1750 F.

Ductile Iron

Ideal for underground and overground rugged duty especially where underground duty calls for a no-aluminium construction. Economic alternative to SS in these cases.

4

Now establish the TOTAL Head using the below calculation.

TOTAL Head = Specific gravity X (Suction Head + Discharge head)

Now add roughly about 10 feet for each 90 degree Bend, and allow for friction within the pipe too.

5

Check Solids Handling Capability

Maximum slurry particle size must not be greater than the pump's solids passage capability. A strainer may be placed on the inlet line to eliminate particles larger than the pump's capability. Please refer to individual specifications for you pump's specific solids passage capabilities.

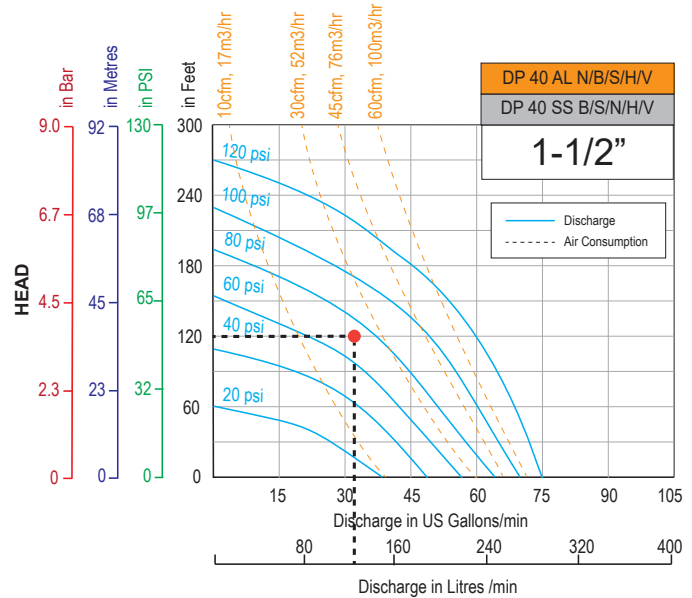
6

Establish Pump Model most suited

For example

To achieve a flow of 120 liters per minute at a head of 120 feet.

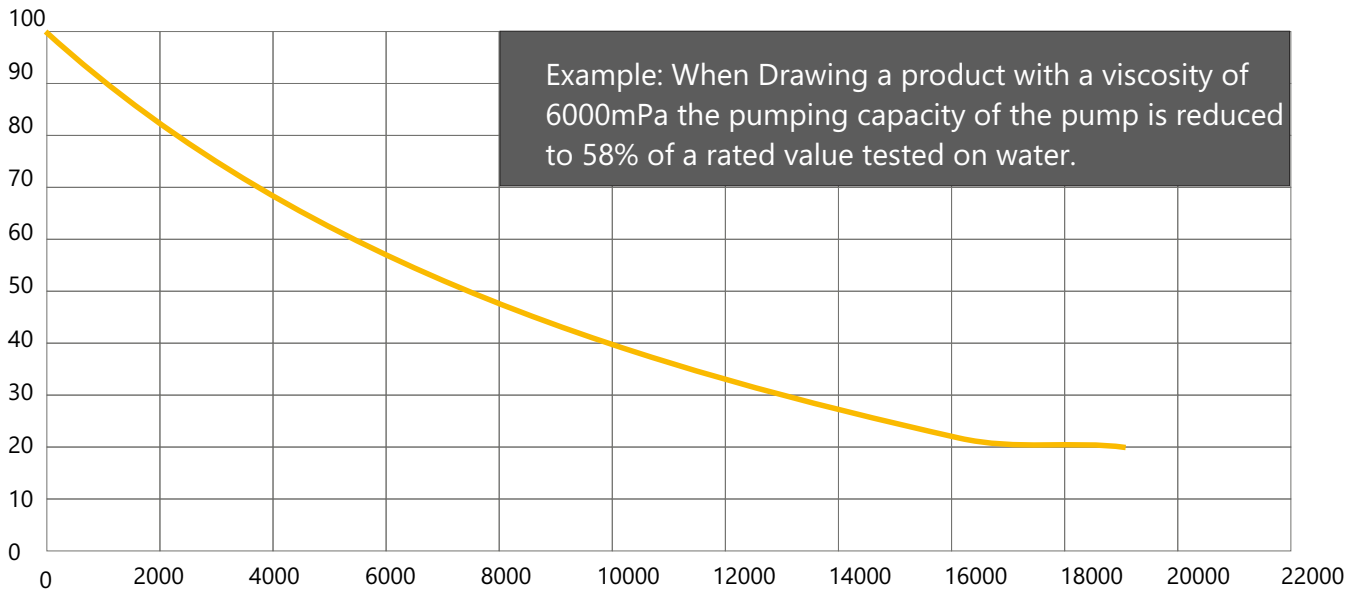
If we select DP40 Pump, from its graph we see that this pump will need about 25 cfm of air at about 70 PSI supply pressure.



Nomenclature

| | | | | | | |
|--|---------------|---------------------------|--|-------------------|-------------------------------|--|
| <div><div>DP</div><div>40</div><div>AL</div><div>B</div><div>C</div><div>R</div></div> | | | | | | |
| Air Valve Type | Pump Size | Material of Construction | Material of Diaphragm | Bolted or Clamped | Threading on Inlet and Outlet | |
| DP - Classic | 06 - 1/4" | AL - Aluminium | B - Nitrile N - Neoprene S - Santoprene T - PTFE V - Viton H - Hytrel | | R- NPT | |
| | 12 - 1/2" | | | | | |
| ADP - Advanced | 15 - 1/2" | SS - Stainless Steel 316L | | B - Bolted | G - BSPT | |
| SDP - MaxFlo | 25 - 1" | | | | P - BSPP | |
| | 40 - 1 - 1/2" | PP - Polypropylene | | C - Clamped | F - Flanged | |
| | 50 - 2 " | CI - Ductile Iron | | | | |
| | 75- 3" | | | | | |

Capacity reduction with viscous fluids



Viscosity Guide

Viscosities in cps
cps = centipoise

| DPB75 - 3" Stroke Diaphragm Pump Bolted | | | | | | Maximum 25000 | |
|--|-----|-----|------|---------------|------|---------------|-------|
| DP 50 - 2" Stroke Diaphragm Pump Clamped | | | | Maximum 12000 | | | |
| DP 40 - 1-1/2" Stroke Diaphragm Pump Clamped | | | | Maximum 12000 | | | |
| DP 25 - 1" Stroke Diaphragm Pump Clamped | | | | Maximum 5000 | | | |
| DPB12 - 1/2" Stroke Diaphragm Pump Bolted | | | | Maximum 5000 | | | |
| 1 | 200 | 500 | 1000 | 2000 | 4000 | 10000 | 15000 |

MATERIAL

| | APPROX. VISCOSITY (in cpm) |
|-------------------------------------|-------------------------------|
| Water @ 70 F | 1 to 5 |
| Blood or Kerosene | 10 |
| Anti - Freeze or Ethylene Glycol | 15 |
| Motor Oil SAE 10 or Mazola Corn Oil | 50 to 100 |
| Motor Oil SAE 30 or Tomato Juice | 150 to 200 |
| Motor Oil SAE 40 or Castor Oil | 250 to 500 |
| Motor Oil SAE 60 or Glycerin | 1,000 to 2,000 |
| Karo Corn Syrup or Honey or Glue | 2,000 to 3,000 |

MATERIAL

| | APPROX. VISCOSITY (in cpm) |
|-----------------------------------|-------------------------------|
| Mayonnaise or Blackstrap Molasses | 5,000 to 10,000 |
| Hershey Chocolate Syrup | 10,000 to 25,000 |
| Heinz Ketchup or French's Mustard | 50,000 to 70,000 |
| Tomato Paste or Peanut Butter | 150,000 to 250,000 |
| Crisco Shortening or Lard | 1,000,000 to 2,000,000 |
| Caulking Compound | 5,000,000 to 10,000,000 |
| Window Putty | 100,000,000 |

Teryair Air Distribution Valve Technology

The heart of any diaphragm pump is the air distribution valve. Teryair valves are designed to maximize air efficiencies, using less air to pump more.

There are other features that are desirable depending on the application. Stall free, lubrication free or corrosion resistant.

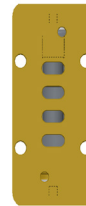
Teryair has carefully combined correct valves with aluminium, SS or PP pump materials and has pre selected valve+pump combinations that are fine tuned for applications.

For example Teryair matches popular combinations of aluminium with classic valves for the rough and ready portable use for marine applicaitons.

To know more about teryair valve technology, read below

Classic Valve

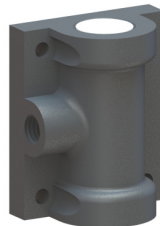
Rugged bronze construction and internal spools also are hard anodized metal. Specifically designed for rough outdoor and portable use. Interchangeable with other popular brands.



Classic valves have a standard Generic Interface

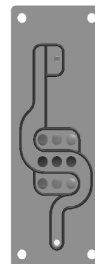
Advanced Valve

Best matched with Teryair PP pumps, they have a precision shift mechanism and a PTFE and viton seal. They are lubrication free and constructed from high density advanced plastics.



MaxFlo Valve

Teryair's most advanced valve. Very efficient usage of air, high output of fluid. Available in aluminium and SS. PTFE and Viton sealing. Lubrication free and stall free. These valves have a long service life. Interchangeable with



MaxFlo valves have a standard Generic Interface

Aluminium Pumps, ATEX Approved

Aluminium Pumps are lightweight and easy to move about. These aluminium constructed pumps are commonly combined with Neoprene, Nitrile or Santoprene elastomers. With these elastomers they are ideal for pumping of water and water based fluids, non aggressive fluids, oily fluids and fluids having low acidic or alkali concentrations. Aluminium Pumps offer a relatively low cost solution to many pumping applications. For this purpose the main industries that choose Aluminium pumps are; Paints, Marine, Mining, Ceramic and Waste Water/ Pollution mangement.



SDP 50 ALX

| Nominal Size | Model Number | Maximum Discharge, Litres/min (gpm) | Suction Head Dry, mtrs (feet) | Suction Head Wet, mtrs (feet) | Pump Weight, Kgs (Lbs) | Maximum Solid Handling Dia, mm (inches) | Air Distribution system | Bolted or Clamped | Performance graphs, see page Number |
|--------------|---------------------|-------------------------------------|-------------------------------|-------------------------------|------------------------|---|-------------------------|-------------------|-------------------------------------|
| 1/4" | SDP 06 AL S/H | 18(4.8) | 3.3(10.8) | 9(30) | 1.9(4.2) | 0.4(1/64") | MaxFlo | Clamped | 15 |
| | SDP 06 ALT | 18(4.8) | 4(13) | 9.5(31) | 1.9(4.2) | 0.4(1/64") | MaxFlo | Clamped | 16 |
| 1/2" | DP 12 AL N/B | 51(14) | 1.5(6) | 9.5(31) | 4.4(9.7) | 1.6(1/16") | Classic | Bolted | 13 |
| | DP 12 ALT | 50(13) | 2.7(9) | 9(30) | 4.4(9.7) | 1.6(1/16") | Classic | Bolted | 14 |
| | SDP 12 AL S/H | 55(15) | 5.5(18) | 9.5(31) | 5.1(11.2) | 1.6(1/16") | MaxFlo | Clamped | 15 |
| | SDP 12 ALT | 51(14) | 4(13) | 9.5(31) | 5.1(11.2) | 1.6(1/16") | MaxFlo | Clamped | 16 |
| 1" | DP 25 AL N/B/S/H/V | 125(33) | 5(16) | 9.5(31) | 9.1(20) | 3.2(1/8") | Classic | Clamped | 13 |
| | DP 25 ALT | 90(24) | 2(6.5) | 9.5(31) | 9.1(20) | 3.2(1/8") | Classic | Clamped | 14 |
| | SDP 25 AL N/B/S/H/V | 162(43) | 5.5(18) | 9(30) | 14.2(30.8) | 3.2(1/8") | MaxFlo | Clamped | 15 |
| | SDP 25 ALT | 147(39) | 2.7(10) | 9(30) | 14.2(30.8) | 3.2(1/8") | MaxFlo | Clamped | 16 |
| 1-1/2" | DP 40 AL N/B/S/H/V | 263(70) | 5.5(18) | 8.5(28) | 15(33) | 4.8(3/16") | Classic | Clamped | 13 |
| | DP 40 ALT | 223(59) | 2.7(9) | 8.5(28) | 15.5(34) | 4.8(3/16") | Classic | Clamped | 14 |
| | SDP 40 AL N/B/S/H/V | 273(72) | 5.5(18) | 8(26) | 17(37) | 4.8(3/16") | MaxFlo | Clamped | 15 |
| | SDP 40 ALT | 232(61) | 3.6(12) | 8.5(28) | 17.5(38.5) | 4.8(3/16") | MaxFlo | Clamped | 16 |
| 2" | DP 50 AL N/B/S/H/V | 586(155) | 6.4(21) | 9.5(31) | 26.5(58) | 6.4(1/4") | Classic | Clamped | 13 |
| | DP 50 ALT | 424(112) | 3.6(12) | 9.5(31) | 26(57) | 6.4(1/4") | Classic | Clamped | 14 |
| | SDP 50 AL N/B/S/H/V | 592(156) | 6.7(22) | 8.5(28) | 29(64) | 6.4(1/4") | MaxFlo | Clamped | 15 |
| | SDP 50 ALT | 471(125) | 4.6(15) | 9.5(31) | 29(64) | 6.4(1/4") | MaxFlo | Clamped | 16 |
| 3" | DP 75 AL N/B/S/H/V | 834(220) | 5.5(18) | 9.5(31) | 52.5(115.5) | 9.5(3/8") | Classic | Clamped | 13 |
| | DP 75 ALT | 668(177) | 3.5(11.5) | 8.5(28) | 52(114) | 9.5(3/8") | Classic | Clamped | 14 |
| | SDP 75 AL N/B/S/H/V | 864(228) | 6.5(21) | 9(30) | 54(118) | 9.5(3/8") | MaxFlo | Clamped | 15 |
| | SDP 75 ALT | 692(182) | 4.6(15) | 9.5(31) | 54(118) | 9.5(3/8") | MaxFlo | Clamped | 16 |

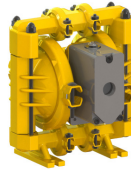
Notes

- N/B/S/H/V in Model Number indicates choice of N-Neoprene, B-Nitrile, S-Santoprene, H - Hytrel or V - Viton with matching seals
- T in Model Number indicates PTFE with Metal seats
- All above mentioned pumps have aluminium wetted parts
- PTFE models have a metal seal and PTFE sealing rings.
- All above models are available with either BSPT, NPT or BSPP Threading, see Nomenclature.
- Dimension Drawings are available, STEP files also available
- MaxFlo valves are constructed from Aluminium, Acetal and CFT sealing rings
- Classic valves are constructed from Bronze and Hard Anodized Aluminium.
- All above pumps have an aluminium centre section

Aluminium Pumps, ATEX Approved



SDP06 ALX



SDP12 ALX



DP12 ALX



DP25 ALX



SDP25 ALX



DP40 ALX



SDP40 ALX



DP50 ALX



SDP50 ALX



DP75 ALX

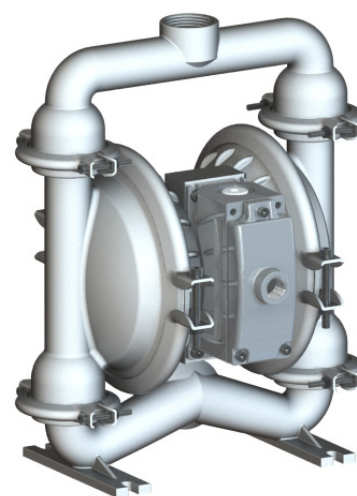
Stainless Steel 316L Pumps, ATEX Approved

Stainless Steel constructed pumps are used in applications which demand high pumping performance, combinations of hot and corrosive fluids, both acidic and alkali. They are the ultimate choice for durable long life performance.

These pumps are usually combined with highly capable and corrosion resistant diaphragms, mainly PTFE and often Viton and Santoprene. With these elastomers they are ideal for pumping of fluids like benzyl diacetone, phosphoric acid, ferric sulfate, isopropyl chloride, transformer oils and

many other similar fluids. Excellent choice when pumping highly aggressive fluids such as aromatic or chlorinated hydrocarbons, acids, caustics, ketone and acetates.

These pumps find wide applications across industries, some popular industries are Chemicals, Pharma, Food/Beverage and Electronic manufacturing.



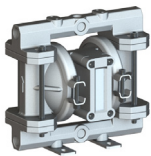
SDP40 SSX

| Nominal Size | Model Number | Maximum Discharge, Litres/min (gpm) | Suction Head Dry, mtrs (feet) | Suction Head Wet, mtrs (feet) | Pump Weight, Kgs (Lbs) | Maximum Solid Handling Dia, mm (inches) | Air Distribution system | Bolted or Clamped | Performance graphs, See page Number | Centre section Material |
|--------------|---------------------|-------------------------------------|-------------------------------|-------------------------------|------------------------|---|-------------------------|-------------------|-------------------------------------|-------------------------|
| 1/4" | SDP 06 SS S/H | 18(5) | 3.3(10.8) | 9(30) | 4.5 (10) | 0.4(1/64") | MaxFlo-SS | Clamped | 15 | SS |
| | SDP 06 SST | 18(5) | 4(13) | 9.5(31) | 4.5 (10) | 0.4(1/64") | MaxFlo-SS | Clamped | 16 | SS |
| 1/2" | SDP 12 SS S/H | 55(15) | 5.5(18) | 9.5(31) | 10(22) | 1.6(1/16") | MaxFlo-SS | Clamped | 15 | SS |
| | SDP 12 SST | 51(14) | 4(13) | 9.5(31) | 10(22) | 1.6(1/16") | MaxFlo-SS | Clamped | 16 | SS |
| 1" | DP 25 SS B/S/N/H/V | 125(33) | 5(16) | 9.5(31) | 13.6(30) | 3.2(1/8") | Classic | Clamped | 13 | Aluminium |
| | DP 25 SST | 90(24) | 2(6.5) | 9.5(31) | 13.6(30) | 3.2(1/8") | Classic | Clamped | 14 | Aluminium |
| | SDP 25 SS B/S/N/H/V | 162(43) | 5.5(18) | 9(30) | 18(40) | 3.2(1/8") | MaxFlo | Clamped | 15 | Aluminium |
| | SDP 25 SST | 147(39) | 2.7(10) | 9(30) | 18(40) | 3.2(1/8") | MaxFlo | Clamped | 16 | Aluminium |
| 1-1/2" | DP 40 SS B/S/N/H/V | 263(70) | 5.5(18) | 8.5(28) | 23.2(51) | 4.8(3/16") | Classic | Clamped | 13 | Aluminium |
| | DP 40 SST | 223(59) | 2.7(9) | 8.5(28) | 23.2(51) | 4.8(3/16") | Classic | Clamped | 14 | Aluminium |
| | SDP 40 SS B/S/N/H/V | 273(72) | 5.5(18) | 8(26) | 28.5(63) | 4.8(3/16") | MaxFlo | Clamped | 15 | Aluminium |
| | SDP 40 SST | 232(61) | 3.6(12) | 8.5(28) | 28.5(63) | 4.8(3/16") | MaxFlo | Clamped | 16 | Aluminium |
| 2" | DP 50 SS B/S/N/H/V | 586(155) | 6.4 (21) | 9.5(31) | 42(92) | 6.4(1/4") | Classic | Clamped | 13 | Aluminium |
| | DP 50 SST | 424(112) | 3.6(12) | 9.5(31) | 42(92) | 6.4(1/4") | Classic | Clamped | 14 | Aluminium |
| | SDP 50 SS B/S/N/H/V | 592(156) | 6.7(22) | 8.5(28) | 48(105) | 6.4(1/4") | MaxFlo | Clamped | 15 | Aluminium |
| | SDP 50 SST | 471(125) | 4.6(15) | 9.5(31) | 48(105) | 6.4(1/4") | MaxFlo | Clamped | 16 | Aluminium |

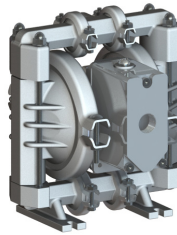
Notes

- B/S/N/H/V indicates choice of B-Nitrile, S-Santoprene, N-Neoprene, H-Hytrel and V-Viton with matching seals
- T indicates PTFE with SS seats
- All above mentioned pumps have SS316L wetted parts
- PTFE models have a metal seal and PTFE sealing rings.
- All above models are available with either BSPT, NPT or BSPP Threading, see nomenclature
- Dimension Drawings are available, STEP files also available
- MaxFlo valves are constructed from Aluminium or SS316L, Acetal and CFT sealing rings
- Classic valves are constructed from Bronze and Hard Anodized Aluminium.
- MaxFlo valves on SS models are SS-HDPP-CFT for corrosion resistance.
- MaxFlo SS : MaxFlo valve system for chemical handling.

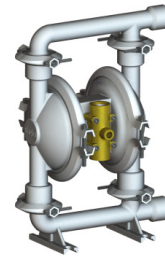
Stainless Steel 316L Pumps, ATEX Approved



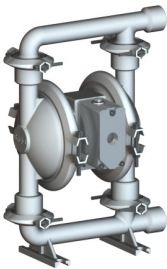
SDP06 SSX



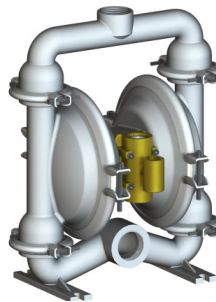
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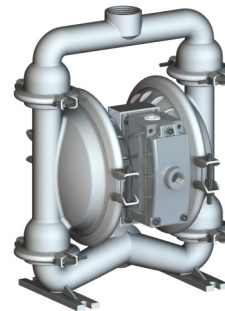
DP25 SSX



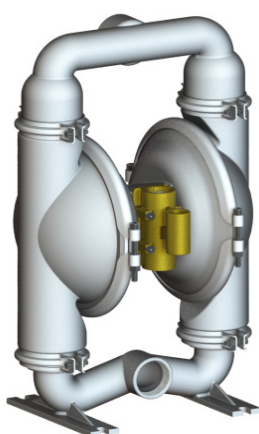
SDP25 SSX



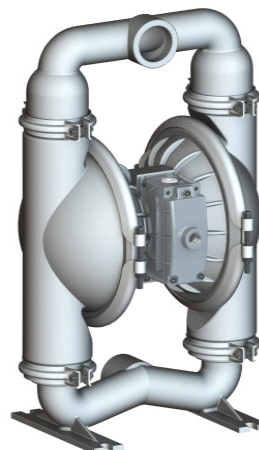
DP40 SSX



SDP40 SSX



DP50 SSX



SDP50 SSX

Ductile Iron Pumps, ATEX Approved



SDP 50 CIX



SDP 75 CIX

Teryairs Cast Iron pumps are constructed out of a special tough spheroidal graphite Iron, to withstand the toughest duty outdoors. They are primarily designed for use in underground mining atmospheres, all pumps shown here have a Mining ATEX approval.

They employ a special version of the air valve system which contains no aluminium, so as to be compatible with mining regulations.

All diaphragm options are available, including the popular BunaN and Hytrel versions.

Skid mounting, inlet strainer bases and frames are all available.

Applications include removal of underground water / drift water from mine sites, transfer of muck, slime and slurry and oil transfer and utility use.

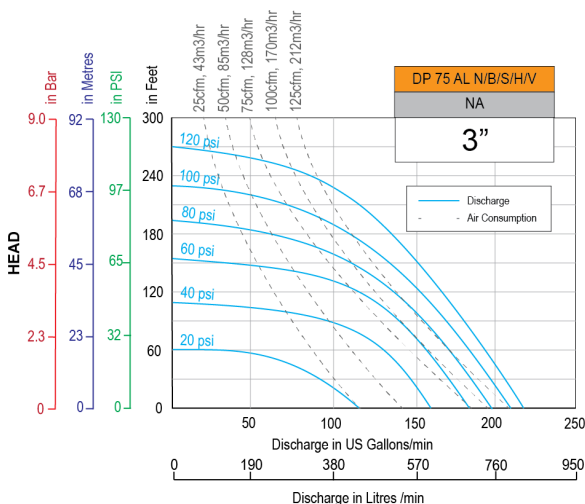
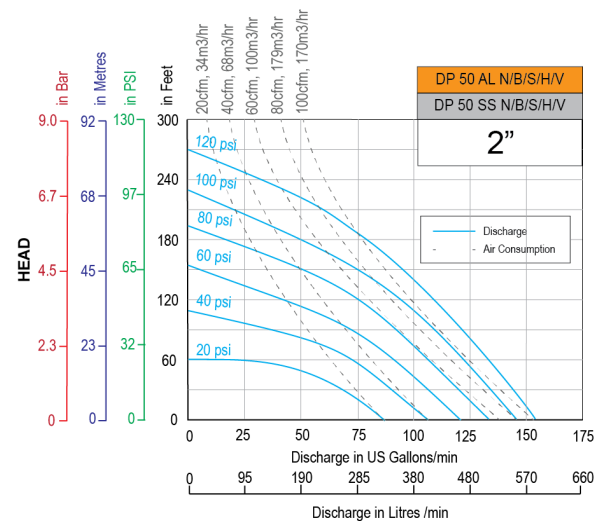
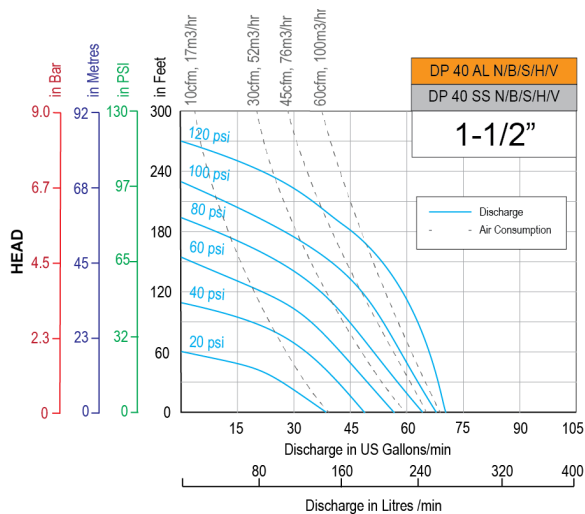
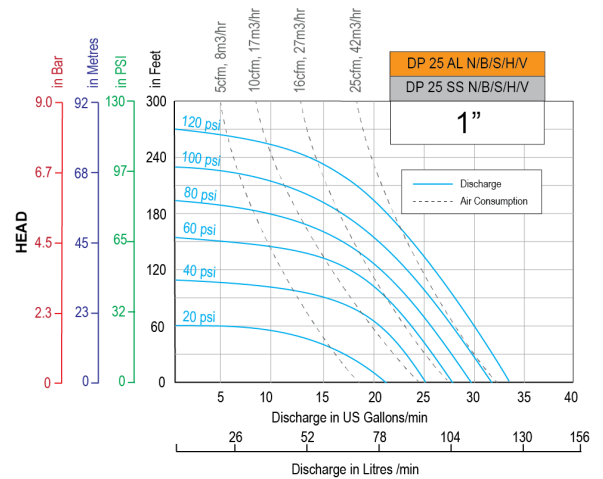
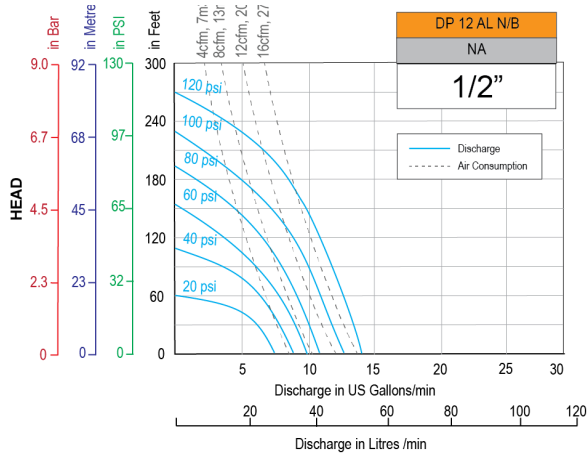
| Nominal Size | Model Number | Maximum Discharge, Litres/min (gpm) | Suction Head Dry, mtrs (feet) | Suction Head Wet, mtrs (feet) | Pump Weight, Kgs (Lbs) | Maximum Solid Handling Dia, mm (inches) | Air Distribution system | Bolted or Clamped | Performance graphs, See page Number | Centre section Material |
|--------------|----------------------|-------------------------------------|-------------------------------|-------------------------------|------------------------|---|-------------------------|-------------------|-------------------------------------|-------------------------|
| 2" | SDP 50 CI B/S/N/H/V* | 592(156) | 7.3(24) | 9.5(31) | 48(105) | 6.4(1/4") | MaxFlo-M | Clamped | 15 | Ductile Iron |
| 3" | SDP 75 CI B/S/N/H/V* | 864(228) | 5.5(18) | 9.5(31) | 90(198) | 9.5(3/8") | MaxFlo-M | Clamped | 15 | Ductile Iron |

Notes

- B/S/N/H/V indicates choice of B-Nitrile, S-Santoprene, N-Neoprene, H-Hytrel and V-Viton with matching seals
- All above mentioned pumps have Ductile Iron wetted parts
- All above models are available with either BSPT, NPT or BSPP Threading, see nomenclature
- Dimension Drawings are available, STEP files also available
- MaxFlo M valves are constructed from Ductile Iron.
- *All three models are under development.
- MaxFlo M : Heavy Duty Mining version of MaxFlo valve system

Performance Graphs

Aluminium or Stainless Steel Construction
Neoprene, Nitrile, Santoprene, Viton or
Hyrel fitted
Classic Valve

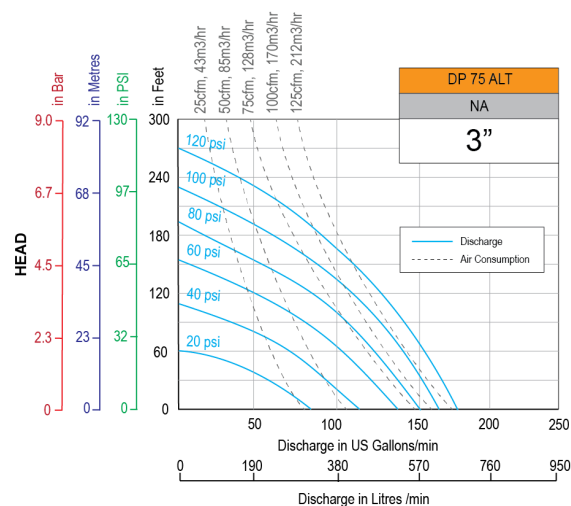
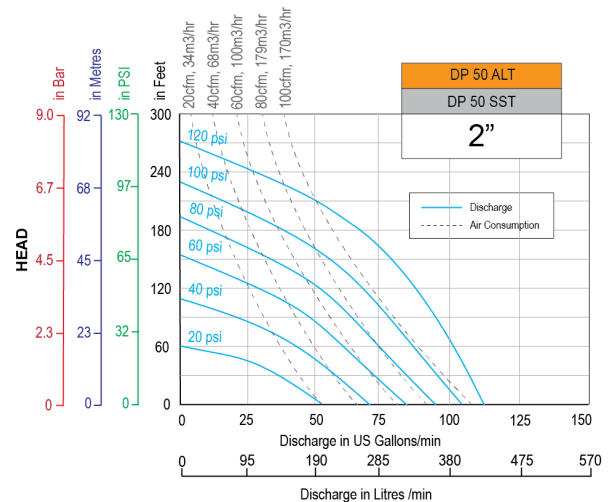
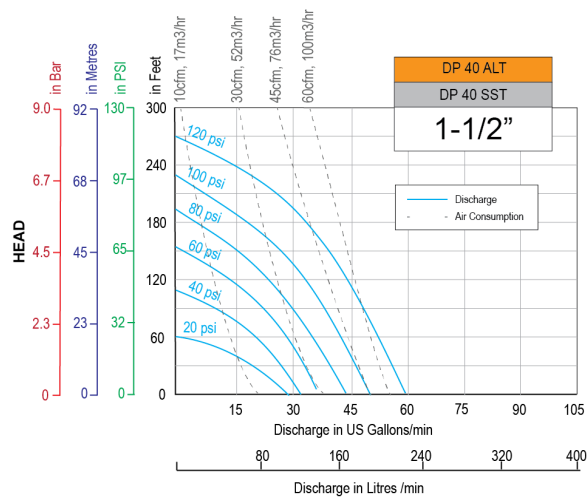
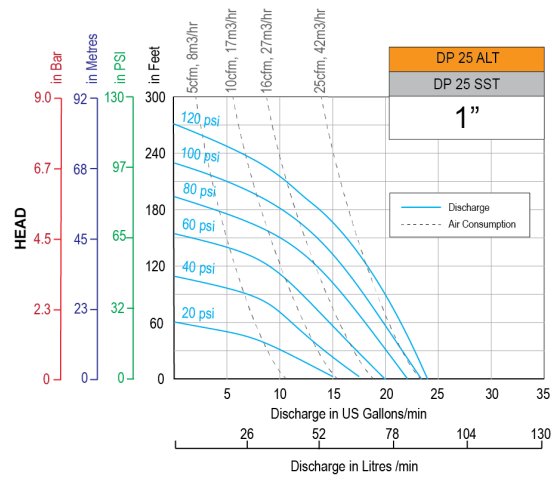
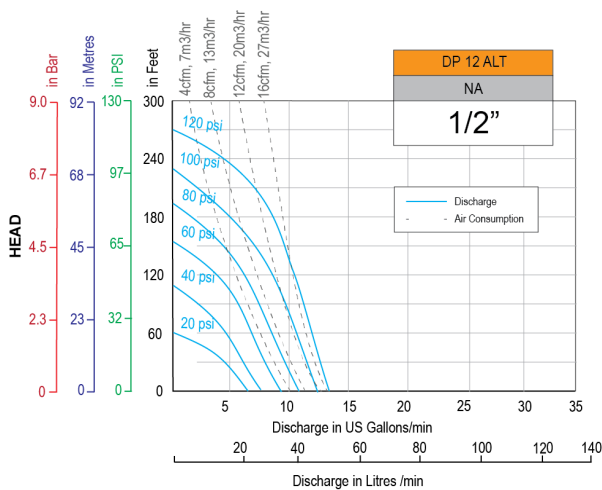


Note

Performance Curves are measured pumping water at 200C at terryair testing Lab. External circumstances might affect performance.

Performance Graphs

Aluminium or Stainless Steel Construction
PTFE fitted
Classic Valve

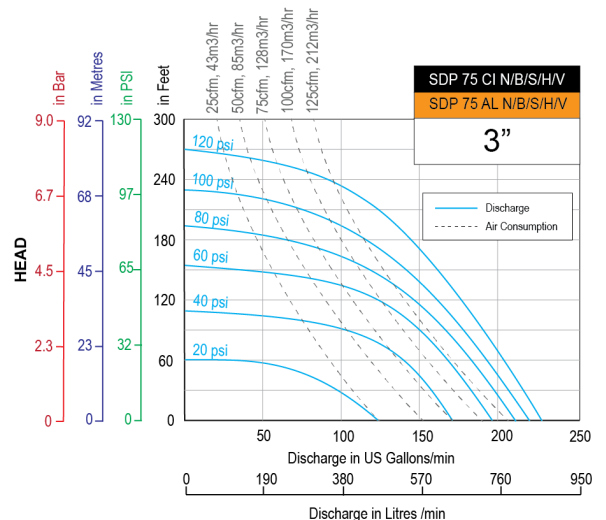
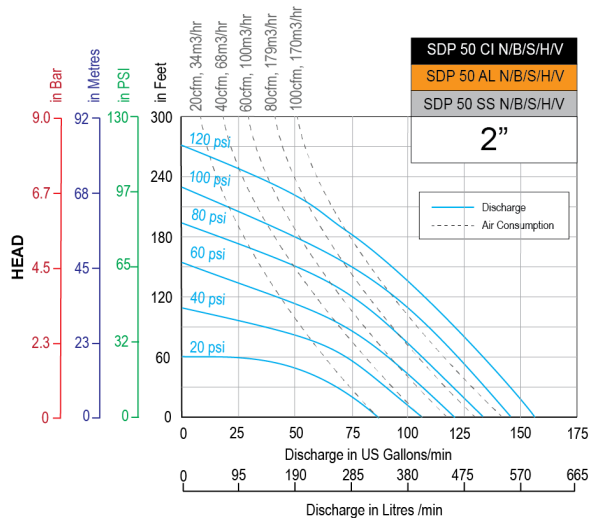
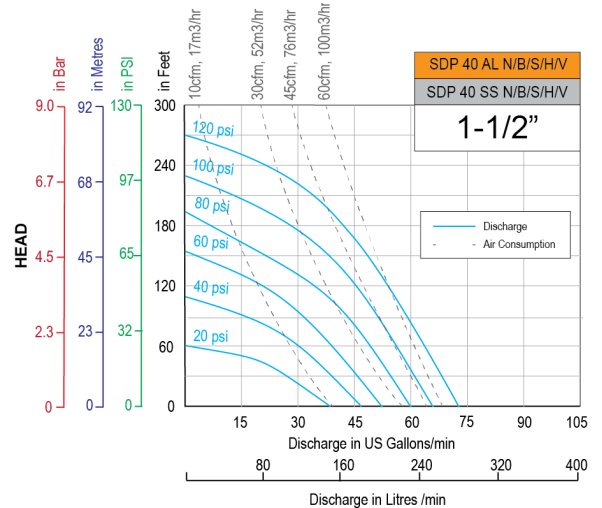
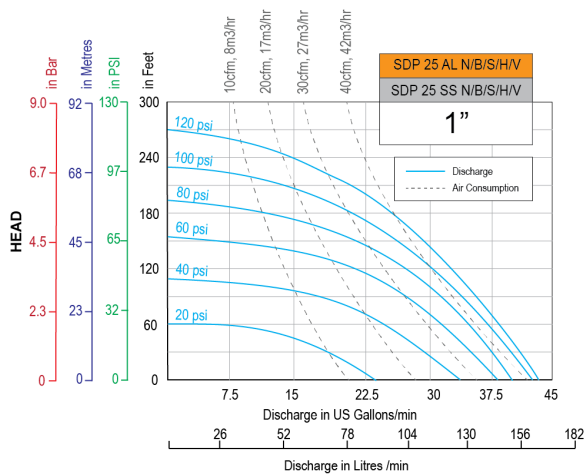
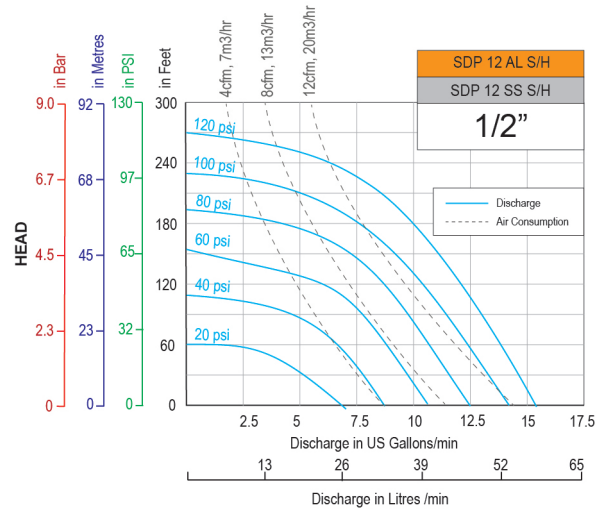
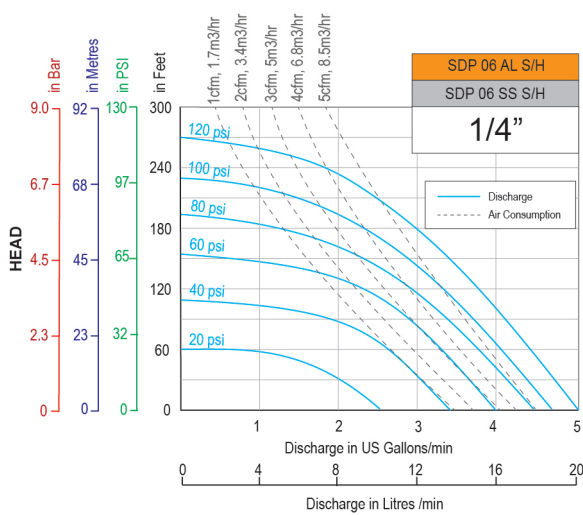


Note

Performance Curves are measured pumping water at 200C at terryair testing Lab. External circumstances might affect performance.

Performance Graphs

Aluminium or Stainless Steel or Ductile Iron
Construction Neoprene, Nitrile, Santoprene,
Viton or Hytrel fitted MaxFlo Valve

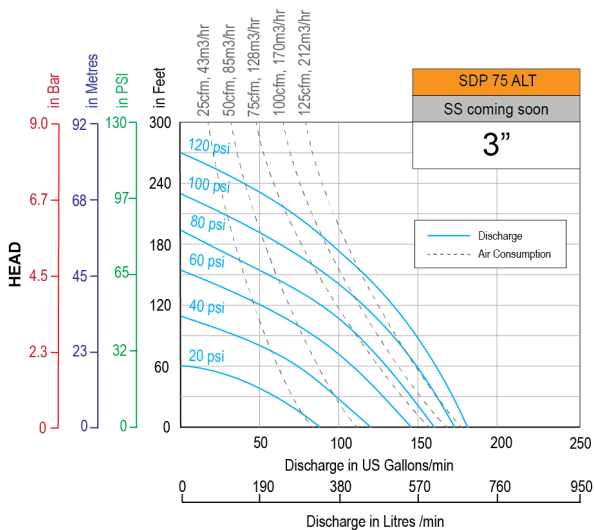
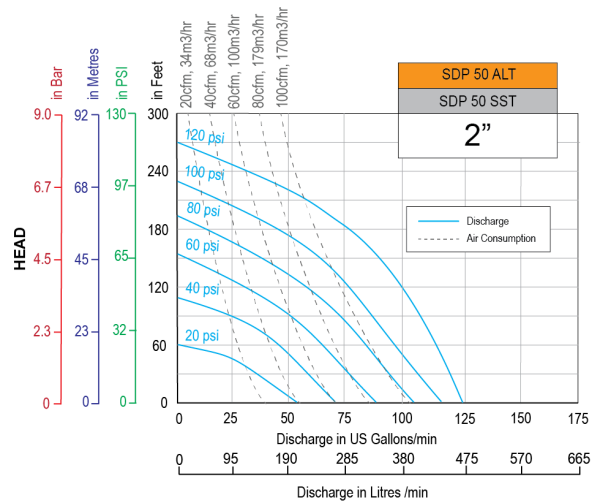
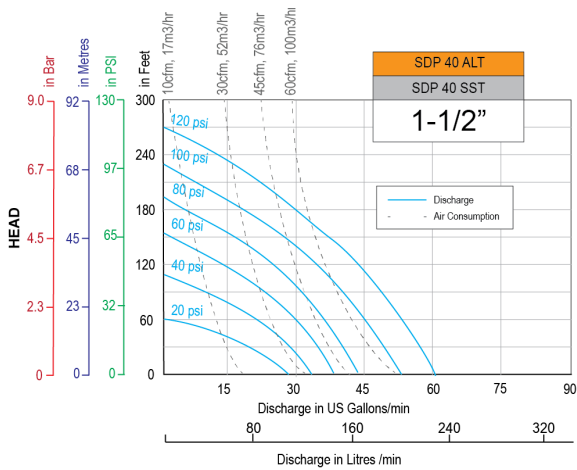
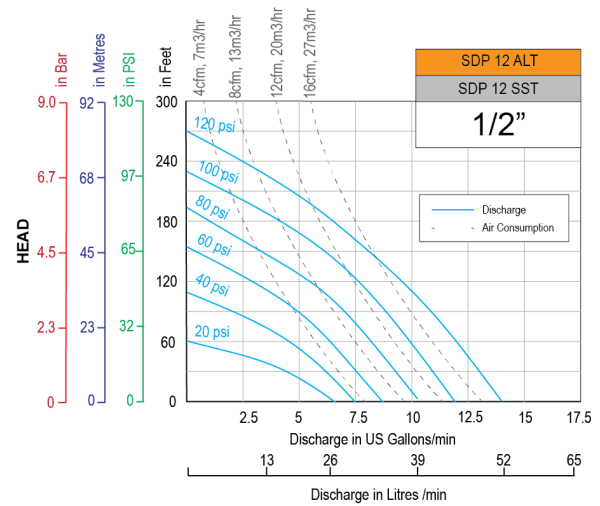
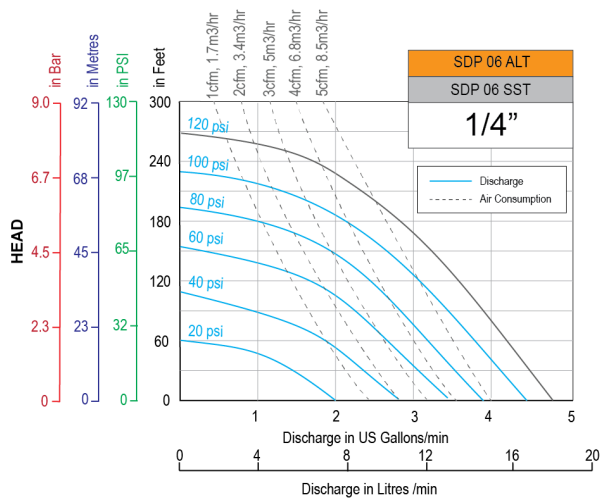


Note

Performance Curves are measured pumping water at 20degC at
terryair testing Lab. External circumstances might affect performance.

Performance Graphs

Aluminium or Stainless Steel Construction
PTFE fitted
MaxFlo Valve



Note

Performance Curves are measured pumping water at 200C at terryair testing Lab. External circumstances might affect performance.

Polypropylene Pumps

Polypropylene pumps or PP pumps are lower in cost to Stainless Steel and can be a suitable alternative to a majority of the applications. In applications which need hot operability or outdoor rough environments, Stainless Steel is still preferred.

These pumps are usually combined with PTFE and often Viton and Santoprene diaphragms are also used. With these elastomers they are ideal for pumping of fluids like benzyl, diacetone, phosphoric acid, ferric sulfate, isopropyl chloride, transformer oils and many other similar fluids.

These pumps find wide applications across industries, some popular industries are Chemicals, Pharma and Electronic manufacturing.



ADP25 PPT

| Nominal Size | Model Number | Maximum Discharge, Litres/min (gpm) | Material of Diaphragm, Balls, Seals and Seats | Suction Head Dry, mtrs (feet) | Suction Head Wet, mtrs (feet) | Pump Weight, Kgs (Lbs) | Maximum Solid Handling Dia, mm (inches) | Air Distribution system | Bolted or Clamped | Performance graphs, see page Number | Centre section |
|--------------|--------------|-------------------------------------|---|-------------------------------|-------------------------------|------------------------|---|-------------------------|-------------------|-------------------------------------|----------------|
| 1/4" | ADP 06 PPT | 20(5) | PTFE | 4 (13) | 9 (30) | 1.2 (2.6) | 0.4 (1/64") | Advanced | Bolted | 19 | Polypropylene |
| 1/2" | ADP 12 PPT | 53(14) | PTFE | 3 (10) | 8.5 (28) | 2.7 (6) | 1.6 (1/16") | Advanced | Bolted | 19 | Polypropylene |
| | ADP 15 PPT | 58(15.6) | PTFE | 3 (10) | 8.5 (28) | 2.7 (6) | 1.6 (1/16") | Advanced | Bolted | 19 | Polypropylene |
| 1" | ADP 25 PPT | 129(34) | PTFE | 2.7 (9) | 9.5(31) | 15 (33) | 3.2(1/8") | Advanced | Bolted | 19 | Polypropylene |
| | ADP 25 PPS | 129(34) | Santoprene and PTFE Balls | 5.5(18) | 9.5(31) | 15(33) | 3.2(1/8") | Advanced | Bolted | 19 | Polypropylene |
| 1-1/2" | DP 40 PPT | 299(79) | PTFE | 2.7(9) | 8.5 (28) | 10(22) | 4.8(3/16") | Classic | Bolted | 19 | Aluminum |
| | ADP 40 PPT | 299(79) | PTFE | 2.7 (9) | 8.5 (28) | 8.2 (18) | 4.8(3/16") | Advanced | Bolted | 19 | Polypropylene |
| 2" | SDP 50 PPT | 496(131) | PTFE | 4(13) | 8.5(28) | 28 (62) | 6.4 (1/4") | MaxFlo | Bolted | 19 | Aluminum |

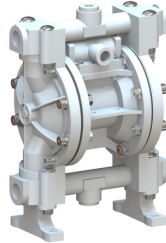
Notes

- T indicates PTFE, S-Santoprene.
- All above mentioned pumps have Polypropylene wetted parts
- All above models are available with either BSPT, NPT or BSPP Threading, see nomenclature
- Dimension Drawings are available, STEP files also available
- MaxFlo valves are constructed from Aluminium or SS316L, Acetal and CFT sealing rings
- Classic valves are constructed from Bronze and Hard Anodized Aluminium.

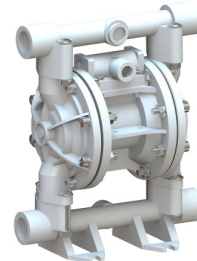
Polypropylene Pumps



ADP06PPT



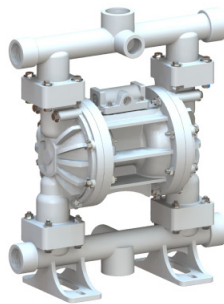
ADP12PPT



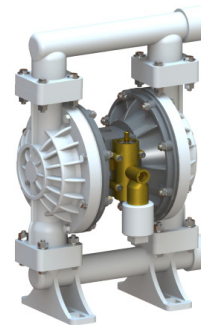
ADP15PPT



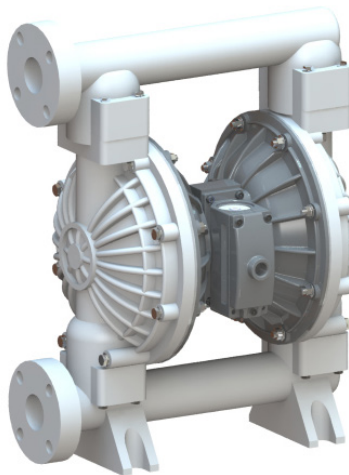
ADP25PPT



ADP40PPT



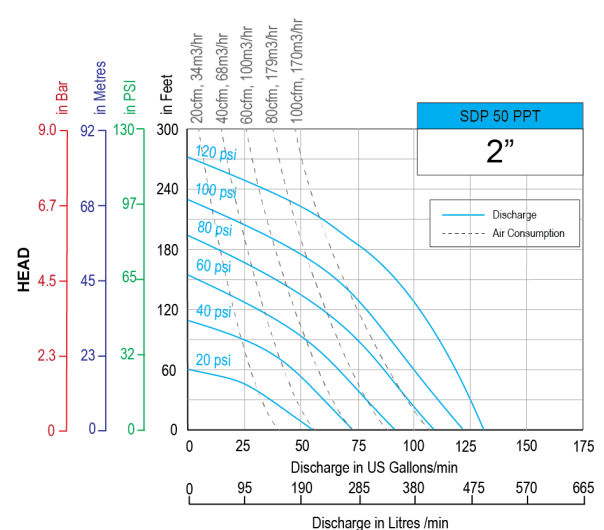
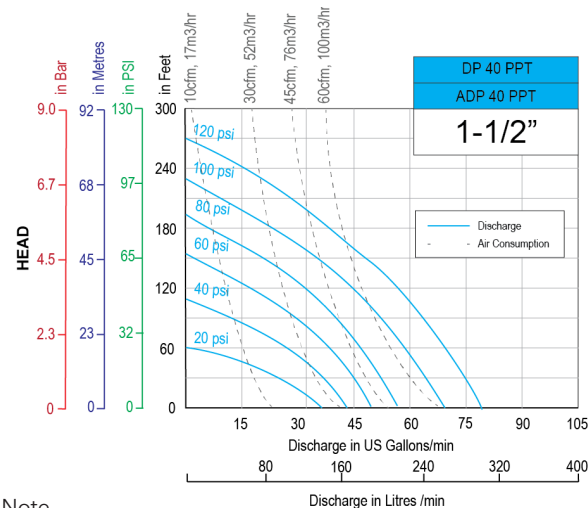
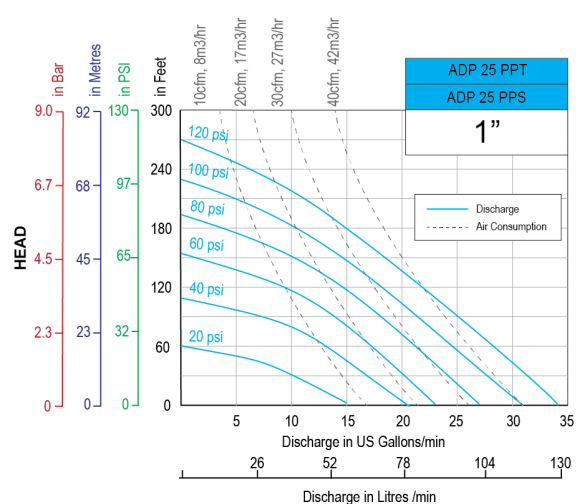
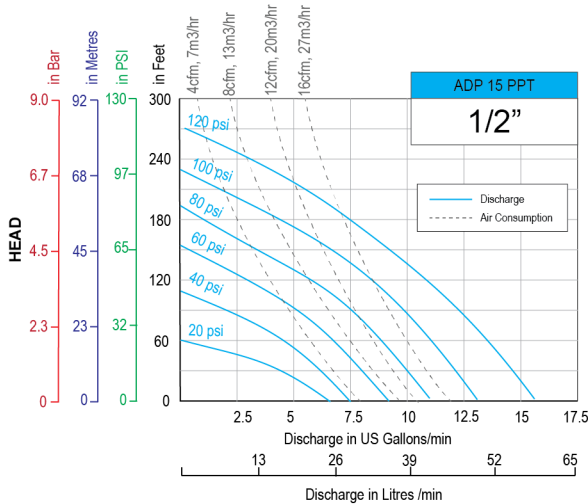
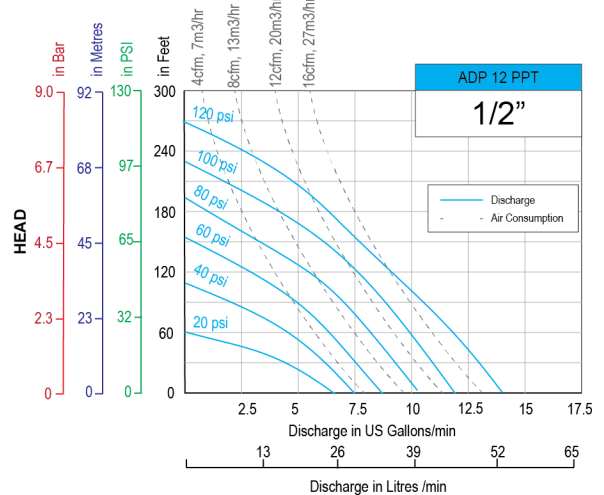
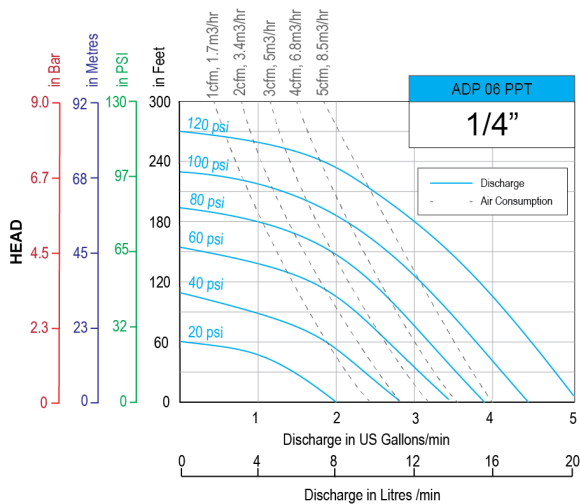
DP40PPT



SDP50PPB

Performance Graphs

Polypropylene Constructed
PTFE or Santoprene fitted
Advanced or MaxFlo Valves



Note

Performance Curves are measured pumping water at 200C at teryair testing Lab. External circumstances might affect performance.

Cam lock Couplings

Useful and quick way to securely connect hoses to pumps, and capable of withstanding required pressures without leakages. Available in both Aluminium and SS. Shown F type Plugs are with BSPT threads.



F type Plug



C type Socket

Aluminium

| Part No | Description | Part No | Description |
|----------|--------------------|---------|----------------------|
| 351751-G | 1/2" F Type Plug | 352001A | 1/2" C Type Socket |
| 351752-G | 3/4" F Type Plug | 352001 | 3/4" C Type Socket |
| 351753 | 1" F Type Plug | 352002 | 1" C Type Socket |
| 351754 | 1-1/4" F Type Plug | 352003 | 1-1/4" C Type Socket |
| 351755 | 1-1/2" F Type Plug | 352004 | 1-1/2" C Type Socket |
| 351756-G | 2" F Type Plug | 352005 | 2" C Type Socket |
| 351757 | 2-1/2" F Type Plug | 352006 | 2-1/2" C Type Socket |
| 351758 | 3" F Type Plug | 352007 | 3" C Type Socket |

Stainless Steel

| Part No | Description | Part No | Description |
|------------|--------------------|---------|----------------------|
| 351781 | 1/2" F Type Plug | 352031A | 1/2" C Type Socket |
| 351782 | 3/4" F Type Plug | 352031 | 3/4" C Type Socket |
| 351783 | 1" F Type Plug | 352032 | 1" C Type Socket |
| 351784 - G | 1-1/4" F Type Plug | 352033 | 1-1/4" C Type Socket |
| 351785 | 1-1/2" F Type Plug | 352034 | 1-1/2" C Type Socket |
| 351786 | 2" F Type Plug | 352035 | 2" C Type Socket |
| 351787 | 2-1/2" F Type Plug | 352036 | 2-1/2" C Type Socket |
| 351788 | 3" F Type Plug | 352037 | 3" C Type Socket |

Notes

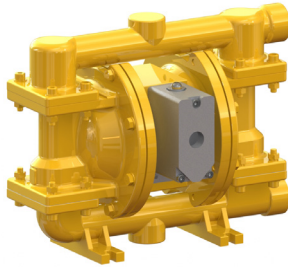
- XXXXXX-R = NPT Threading
- XXXXXX-G = BSPT Threading
- XXXXXX-P = BSPP Threading
- When ordering replace G with R or P as required.

Coming Soon...

New Series of Aluminium Bolted AODD Pumps



1/2 inch Pump



1 inch Pump



1-1/2 inch Pump

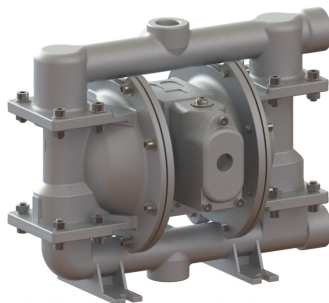


2 inch Pump

New Series of Stainless Steel 316L Bolted AODD Pumps



1/2 inch Pump



1 inch Pump

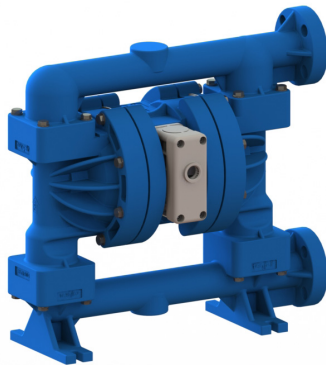


2 inch Pump

New Series of Polypropylene Bolted AODD Pumps

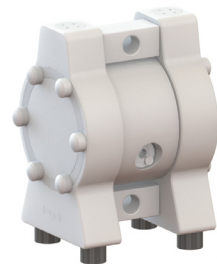


1/2 inch Pump

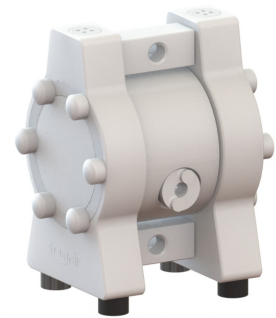


1 inch Pump

New Series of PTFE Bolted AODD Pumps

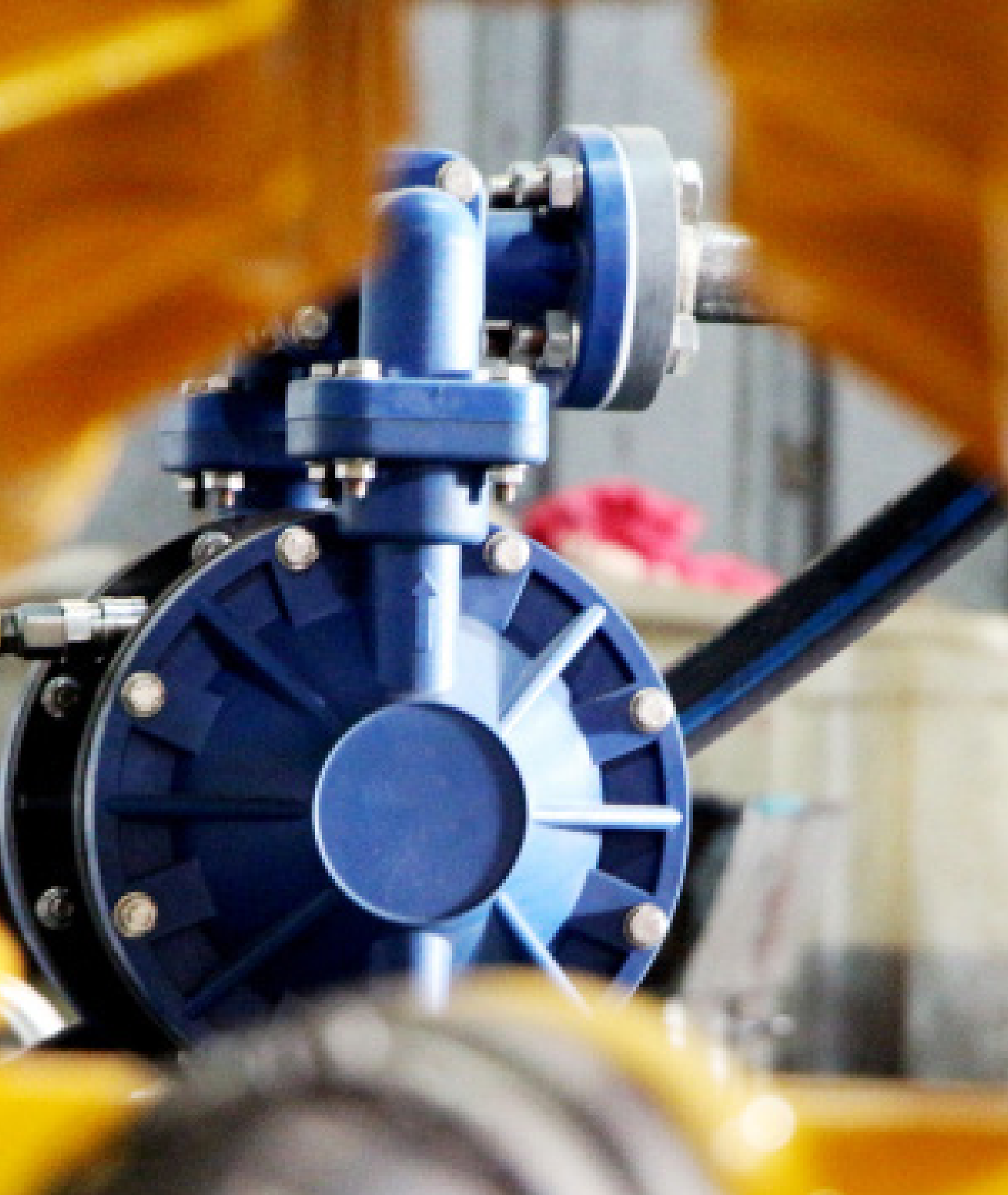


1/2 inch Pump



1 inch Pump

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www.teryair.com

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