



**AIR OPERATED
DOUBLE DIAPHRAGM 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; at competitive pricing.

Prominent among the equipment is the lineup of Teryair pneumatic diaphragm pumps. 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, teryair pumps are supported by a strong warranty and a quick service promise.

Why teryair pumps ?

Every pump is duration tested on a test bench at max loads. Every pump performance parameters are recorded for traceability. This ensures unparalleled pump reliability.

Prime materials used in construction.

State of art manufacturing under an ISO9001:2015 environment.

Strong Service available pan India. Ready stock of spares.

Facilities

Research and Development

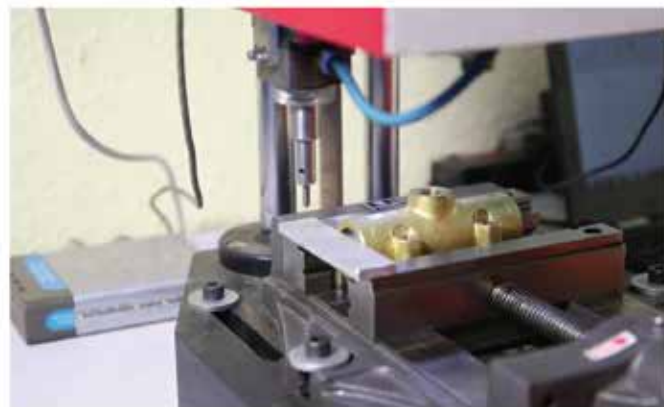
Teryair employs cutting-edge design software and has trained engineers. Teryair has been consistently improving the product by listening to user feedback. And new products launched every year.

Quality Assurance

Under the environment of a robust ISO 9001:2015 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. A large percentage of components are manufactured in-house and in this way, strict control over quality, production planning & reliability is achieved.



Teryair Diaphragm Pump Advantages

- Pumps a variety of fluids.
- Easy startups, no priming.
- No foaming or shearing of the product being pumped.
- No decline in pump efficiency over time, diaphragm replacement restores pump to top efficiency.
- No damage due to running without lubrication (Maxflo).
- Solid particle handling.
- Capable for Submersible, Flooded and Negative suction.
- Easy Spare parts availability.
- Easy repair.
- Lightweight, cool running, stall resistance, easy restart and explosion proof.
- No damage from overloading.
- No Mechanical seal.
- No hold-up in the discharge line.
- Variable flow.
- Suitable for fixed and portable application.



Pump Applications

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

Some of the typical products handled industry-wise are..



PACKAGING INDUSTRY



PAINT INDUSTRY



CHEMICAL INDUSTRY



CONSTRUCTION INDUSTRY



OFFSHORE INDUSTRY



SHIPPING INDUSTRY



CERAMIC INDUSTRY



PHARMA INDUSTRY



MINING INDUSTRY

How to select the right Diaphragm Pump?

Follow the steps outlined here to arrive at the best match of Diaphragm Pump for your application.

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, ball and seat material. Diaphragm pumps 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)

Buna N

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 +175° C (-40° F to +350° F)

Teflon

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

Exhibits excellent abrasion resistance, flex life and durability. Excellent general purpose diaphragm.
Temperature range -40° C to +107° C (-40° F to +225° F)

3 Once the diaphragm, ball and seat material is chosen, select the correct material of construction of the pump. STROKE Pumps offers following material of construction choices:

Aluminium

Good for fluids having pH between 5.5 and 8.5

Stainless Steel

Good for stronger concentrated acids and alkaline

Polypropylene

Good alternative low cost choice where fluid is compatible especially chemical compatibility and temperatures. Polypropylene is good between Temperature ranges of +12° C to +107° C and +32° to +175° F.

4 Establish TOTAL head

Now establish the TOTAL Head using the below calculation.
$$\text{TOTAL Head} = \text{Specific gravity} \times (\text{Suction Head} + \text{Discharge head}) + \text{approx Additional head (due to pipe bends). Roughly about 10 feet for each 900 Bend.}$$

Finally check that the selected pump meets the below guidelines for viscous fluids.

5 Establish Pump Model most suited

Every diaphragm pump technical specifications include the pump flow curves. Looking at the pump flow curves, establish the point where the total head and required discharge intersect. This intersection pump should ideally be somewhere in the middle of the graph. That is the pump should achieve the required discharge @Head at the supply air pressure of about 70 PSI. With Diaphragm pumps you only consume as much air as is needed to move the fluid, irrespective of pump size, so it is beneficial to select a pump whose daily operation will be in the middle of the pump performance.

The diaphragm pump flow curves are all based on pumping of water. When pumping viscous fluids pump output reduces. Be sure to compensate for viscous fluids.

6 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 your pump's specific solids passage capabilities.

Classic Diaphragm Pumps



DP12ALN / ALT/ALB



ADPB12PPT



DP12SST

½ inch	Model No	DP12ALB	DP12ALN	ADPB12PPT	ADPB15PPT	DPB12ALT	DPB12SST
	Construction Type	Bolted	Bolted	Bolted	Bolted	Bolted	Bolted
	Wetted Material	Aluminum	Aluminum	Polypropylene	Polypropylene	Aluminum	SS 316
	Center Section	Aluminum	Aluminum	Polypropylene	Polypropylene	Aluminum	Aluminum
	Diaphragm Material	Buna-N	Neoprene	PTFE	PTFE	PTFE	PTFE/Neoprene
	Dry Suction Capacity	1.5 meter	1.5 meter	2.7 meter	2.7 meter	1.5 meter	1.5 meter
	Max Solid particle	1.6 mm	1.6 mm	1.6 mm	1.6 mm	1.6 mm	1.6 mm
	Max delivery	27 LPM	27 LPM	32 LPM	55 LPM	25 LPM	23 LPM
	Air Consumption	14 CFM	14 CFM	23 CFM	23 CFM	14 CFM	14 CFM
	Air Inlet	1/4" NPT	1/4" NPT	3/8" NPT	3/8" NPT	1/4" NPT	1/4" NPT
	Fluid Inlet	½" NPT	½" NPT	½" NPT	½" NPT	½" NPT	½" NPT
	Fluid Outlet	½" NPT	½" NPT	½" NPT	½" NPT	½" NPT	½" NPT
	Weight	4.4 Kg	4.4 Kg	3.8 Kg	3.8 Kg	4.4 Kg	7.1 Kg



DP25ALN / ALT/ALB



ADPB25PPT



DP25SST

1 inch	Model No	DP25ALB	DP25ALN	DP25ALT	DP25SST	ADPB25PPT
	Construction Type	Clamped	Clamped	Clamped	Clamped	Bolted
	Wetted Material	Aluminum	Aluminum	Aluminum	SS 316	Polypropylene
	Center Section	Aluminum	Aluminum	Aluminum	Aluminum	Polypropylene
	Diaphragm Material	Buna-N	Neoprene	PTFE (Bonded)	PTFE (Bonded)	PTFE (Bonded)
	Dry Suction Capacity	5.2 meter	5.2 meter	3.0 meter	3.0 meter	3.0 meter
	Max Solid particle	3.2 mm	3.2 mm	3.5 mm	3.5 mm	3.2 mm
	Max delivery	114 LPM	114 LPM	117 LPM	117 LPM	104 LPM
	Air Consumption	15 CFM	15 CFM	24.5 CFM	24.5 CFM	25 CFM
	Air Inlet	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT
	Fluid Inlet	1" NPT	1" NPT	1" NPT	1" NPT	1" NPT
	Fluid Outlet	1" NPT	1" NPT	1" NPT	1" NPT	1" NPT
	Weight	8.0 Kg	8.0 Kg	8.8 Kg	10.7 Kg	11.3 Kg

Options available with viton, santoprene and EPDM diaphragms

Classic Diaphragm Pumps



DP40ALN / ALT / ALB



DPB40PPT



DP40SST

1-½ inch	Model No	DP40ALB	DP40ALN	DP40ALT	DP40SST	DPB40PPT
	Construction Type	Clamped	Clamped	Clamped	Clamped	Bolted
	Wetted Material	Aluminum	Aluminum	Aluminum	SS 316	Polypropylene
	Center Section	Aluminum	Aluminum	Aluminum	Aluminum	Polypropylene
	Diaphragm Material	Buna-N	Neoprene	PTFE/Neoprene	PTFE/Neoprene	PTFE (Bonded)
	Dry Suction Capacity	5.5 meter	5.5 meter	4.8 meter	4.8 meter	6.0 meter
	Max Solid particle	4.8 mm	4.8 mm	4.8 mm	4.8 mm	4.8 mm
	Max delivery	225 LPM	255 LPM	190 LPM	190 LPM	175 LPM
	Air Consumption	54 CFM	54 CFM	58.5 CFM	58.5 CFM	45 CFM
	Air Inlet	½" NPT	½" NPT	½" NPT	½" NPT	½" NPT
	Fluid Inlet	1-1/2" NPT	1-1/2" NPT	1-1/2" NPT	1-1/2" NPT	1-1/2" NPT
	Fluid Outlet	1-1/4" NPT	1-1/4" NPT	1-1/4" NPT	1-1/4" NPT	1-1/4" NPT
	Weight	15.0 Kg	15.0 Kg	15.0 Kg	22.4 Kg	10.5 Kg

Options available with viton, santoprene and EPDM diaphragms

CLASSIC
DIAPHRAGM PUMP



Classic Diaphragm Pumps



DP50ALN / ALT/ALB



DP50SST

2 inch	Model No	DP50ALB	DP50ALN	DP50ALT	DP50SST
	Construction Type	Clamped	Clamped	Clamped	Clamped
	Wetted Material	Aluminum	Aluminum	Aluminum	SS 316
	Center Section	Aluminum	Aluminum	Aluminum	Aluminum
	Diaphragm Material	Buna-N	Neoprene	PTFE/Neoprene	PTFE/Neoprene
	Dry Suction Capacity	6.4 meter	6.4 meter	3.7 meter	3.7 meter
	Max Solid particle	6.4 mm	6.4 mm	6.4 mm	6.4 mm
	Max delivery	600 LPM	600 LPM	455 LPM	455 LPM
	Air Consumption	90 CFM	90 CFM	83 CFM	83 CFM
	Air Inlet	3/4" NPT	3/4" NPT	3/4" NPT	3/4" NPT
	Fluid Inlet	2" NPT	2" NPT	2" NPT	2" NPT
	Fluid Outlet	2" NPT	2" NPT	2" NPT	2" NPT
	Weight	23.0 Kg	23.0 Kg	23.0 Kg	42.0 Kg

Options available with viton, santoprene and EPDM diaphragms



DP75ALN / ALT/ALB

3 inch	Model No	DP75ALB	DP75ALN	DP75ALT
	Construction Type	Clamped	Clamped	Clamped
	Wetted Material	Aluminum	Aluminum	Aluminum
	Center Section	Aluminum	Aluminum	Aluminum
	Diaphragm Material	Buna-N	Neoprene	PTFE/Neoprene
	Dry Suction Capacity	5.5 meter	5.5 meter	3.5 meter
	Max Solid particle	9.5 mm	9.5 mm	9.5 mm
	Max delivery	850 LPM	850 LPM	640 LPM
	Air Consumption	100 CFM	100 CFM	100 CFM
	Air Inlet	3/4" NPT	3/4" NPT	3/4" NPT
	Fluid Inlet	3" NPT	3" NPT	3" NPT
	Fluid Outlet	3" NPT	3" NPT	3" NPT
	Weight	47.0 Kg	47.0 Kg	47.0 Kg

Options available with viton, santoprene and EPDM diaphragms

MAX-FLO Technology NEW

Max-Flo pumps have advanced technology and materials. They are lube-free, stall-free and high performance.

Advanced Features

- These pumps deliver more flow per CFM consumed.
- Lubrication-free running.
- Nonstalling.

max-FLO

"we don't just sell diaphragm pumps"

we sell technology.



1-1/2 inch

Model No	SDP40ALB	SDP40ALN	SDP40ALT	SDP40SST
Construction Type	Clamped	Clamped	Clamped	Clamped
Wetted Material	Aluminum	Aluminum	Aluminum	SS 316
Center Section	Aluminum	Aluminum	Aluminum	Aluminum
Diaphragm Material	Buna-N	Neoprene	PTFE/Neoprene	PTFE/Neoprene
Dry Suction Capacity	5.5 meter	5.5 meter	3.7 meter	3.7 meter
Max Solid particle	4.8 mm	4.8 mm	4.8 mm	4.8 mm
Max delivery	350 LPM	350 LPM	294 LPM	294 LPM
Air Consumption	65 CFM	65 CFM	83 CFM	83 CFM
Air Inlet	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT
Fluid Inlet	1-1/2" NPT	1-1/2" NPT	1-1/2" NPT	1-1/2" NPT
Fluid Outlet	1-1/4" NPT	1-1/4" NPT	1-1/4" NPT	1-1/4" NPT
Weight	16.0 Kg	16.0 Kg	16.0 Kg	23.5 Kg

Options available with viton and santoprene diaphragms



2 inch

Model No	SDP50ALB	SDP50ALN	SDP50ALT	SDP50SST	SDP50PPT
Construction Type	Clamped	Clamped	Clamped	Clamped	Bolted
Wetted Material	Aluminum	Aluminum	Aluminum	SS 316	Polypropylene
Center Section	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Diaphragm Material	Buna-N	Neoprene	PTFE/Neoprene	PTFE/Neoprene	PTFE (Bonded)
Dry Suction Capacity	6.4 meter	6.4 meter	3.5 meter	3.5 meter	6.0 meter
Max Solid particle	6.4 mm	6.4 mm	6.4 mm	6.4 mm	6.4 mm
Max delivery	725 LPM	725 LPM	491 LPM	491 LPM	630 LPM
Air Consumption	110 CFM	110 CFM	125 CFM	125 CFM	130 CFM
Air Inlet	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT	3/4" NPT
Fluid Inlet	2" NPT	2" NPT	2" NPT	2" NPT	2" Flange
Fluid Outlet	2" NPT	2" NPT	2" NPT	2" NPT	2" Flange
Weight	27.0 Kg	27.0 Kg	27.0 Kg	46.0 Kg	28.0 Kg

Options available with viton and santoprene diaphragms



Pneumatic Submersible Pumps

Teryair Pneumatic Submersible Pumps are used to empty ballast tanks, bilge wells, etc. Often used for draining cargo holds during and after the washing procedure. Especially preferred where an electric spark may risk ignition or explosion. Required air pressure is 0.59 MPa (6kgf/cm²).

Features

- Will handle up to 3mm solids.
- Governor controlled motor.
- Inbuilt oil grease lubrication system.
- Compact design enables use in restricted areas.



SP-10

Model No	SP 10	SP 25
Net weight	21.5 Kgs	35 kgs
Height	340mm	392mm
Minimum opening pump will enter	204mm x 230mm	210mm x 305mm
Air inlet	3/4" NPT	3/4" NPT
Air Outlet	1" NPT	1-1/4" BSPP
Max delivery	800 LPM	1000 LPM
Air consumption	95 CFM	135 CFM
Recommended Hose Size	12mm (1/2")	19mm (3/4")
Fluid inlet	Screen	Screen
Fluid outlet	2" NPT	2-1/2" NPT
Max Pressure	2.5 kg/cm ²	2.5 kg/cm ²



SP-25



Waste Water Pump

Teryair Waste Water Pumps are used for pumping "black" and "grey" waste water. This Waste Water Pump is supplied with adjustable hose connections. This powerful diaphragm pump is constructed with "duck bill" valves. The pump is self priming and available in 12 or 24 Volt versions.



Model No	WWP25/12	WWP25/24
Net weight	3.7 kgs	3.7 kgs
Power Supply	12 V DC	24 V DC
Motor Rating	8 Amp	5 Amp
Construction Type	Bolted	Bolted
Wetted Material	Plastic	Plastic
Max Suction Head	3 meters	3 meters
Max Delivery Head	5 meters	5 meters
Fluid Inlet	1-3/8"	1-3/8"
Fluid Outlet	1-3/8"	1-3/8"
Out put LPM	27	27

Features

- Leakproof duck bill valve.
- Self - priming.
- Elbow can be swivelled at 360° which allows hoses to be adjusted in any direction.
- Low noise level due to DC motors as compared to rotary pumps.
- Thermo cut off switch.
- Positions of inlet & outlet hoses can be adjusted as per requirement within 180°.

Pneumatic Barrel Pump

Teryair Pneumatic Barrel Pumps are ideally suited for transferring lights oils from barrels. They can be directly inserted into a barrel and screwed onto the bung by means of the provided adaptor. They can be inserted into most barrels and operate over a range of air inlet pressures.



BP-10

Model No.	BP10
Applications	These barrel pumps are ideally suited for transferring light oils from barrels. They can be directly inserted into a barrel and screwed onto the bung by means of the provided adaptor
Features	Can be inserted into most barrels. Well operate over a range of air inlet pressures.
Standard Equipment	Bung Adapter
Weight	5.3 kgs
Tube dia	55 mm
Air consumption	15 CFM
Air Inlet connector	1/4" NPT
Fluid Outlet connector	3/4" NPT
Max Flow	44 LPM
Max Pressure	5.0 Kg/cm ²

Pneumatic Grease Dispensers

Terryair Grease Dispensers meet the highest standards in quality and come in powder coated finish with all external components nickel plated for longer life. The grease dispensers are provided with castors for easy mobility and a swivel arrangement which makes them easy manoeuvrable. The anti-lock pressure plates ensure easy flow of grease.



GP-50



GP-25



GP-20

Model No	GP-50	GP-25	GP-20
Net weight	32.0 kgs	21.5 kgs	14.0 kgs
Air Inlet	1/4" BSPP	1/4" BSPP	1/4" BSPP
Capacity	50	25	20
Pressure	8000 PSI	8000 PSI	3350 PSI
Hose Length	2 meters	2 meters	2 meters
Out Put-Grams / Minute	350	350	320
Gun Connection	1/4" BSP	1/4" BSP	1/4" BSP
Pressure Plate	Inbuilt	Inbuilt	Inbuilt
Gun Type	Swivel	Swivel	Swivel



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CERTIFICATIONS



ISO 9001: 2015
CE (European safety health
and environmental Standards)