teryair®
www.teryair.com

VALUE FOR MONEY

DP 12 ALX

MAX DISCHARGE
0-51 litres/minute

SIZE, MATERIAL
1/2", Aluminium

WEIGHT
4.4 Kgs

AIR OPERATED DIAPHRAGM PUMP

These aluminum constructed pumps are commonly combined with Neoprene, Nitrile or PTFE 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
Aluminum Pumps offer a relatively low-cost solution to many pumping applications. For this purpose, the main industries that choose Aluminum pumps are Paints, Marine, Mining, Ceramic and Wastewater/Pollution management.

Diaphragm Options 'X'

Neoprene
Nitrile
PTFE

Approvals and Certifications

All Teryair pumps are CE marked and manufactured under an ISO 9001:2015 Quality system by SGS. All Teryair aluminum, Ductile iron, and Stainless Steel pumps are explosion-proof Certified (ATEX).

Versatility

This pump handles Viscous fluids, Slurries, Solid laden fluids, Shear Sensitive fluids very well.
No Priming needed
No Foaming of fluid pumped
No Stall damages
Portable
Submerged operation capable

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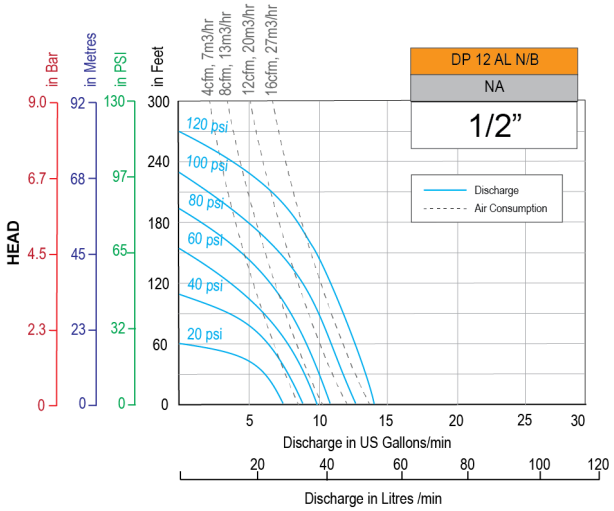
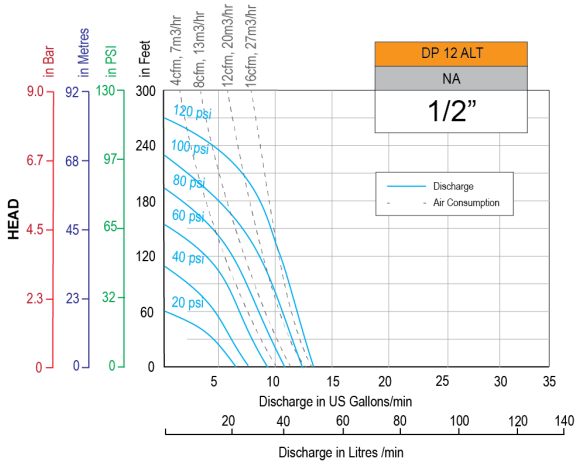
Performance Graphs DP 12 ALN/ALB



Performance Graphs DP 12 ALT

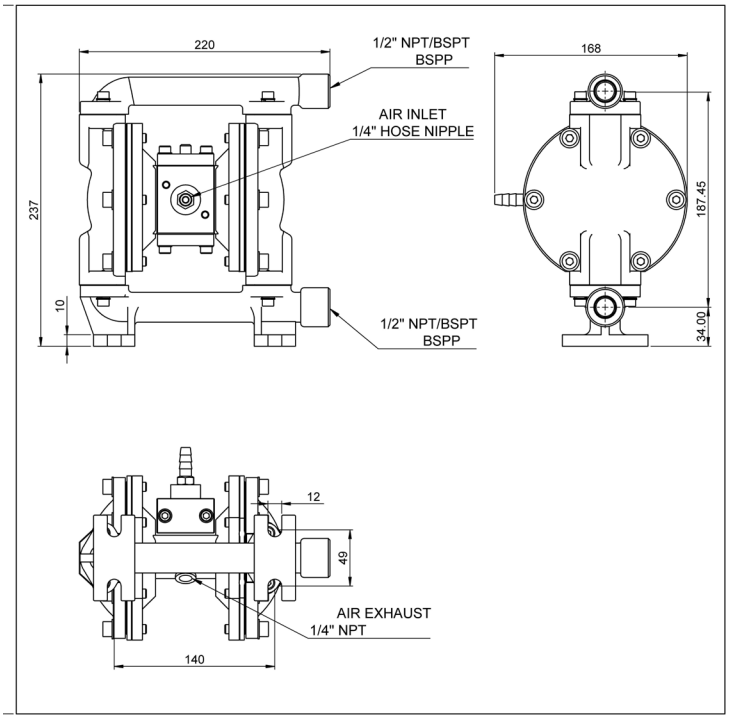


- Performance as measured pumping water at 20degC.
- **Disclaimer:** Actual pump performance may vary depending on number of bends, suction needed and friction in length of discharge piping.
- For guidance on how to select a suitable pump, visit Teryair AODD pump Selection guide.

Technical Data DP 12ALX

	DP 12AL with Neoprene / Nitrile fit-ments	**DP 12AL with PTFE Fitments**
Maximum Discharge	51 Litres/min (14 US gallons/min)	50 liters/min (13 US gallons/min)
Suction Head Dry	1.5 meters, 6 feet	2.7 meters, 9 feet
Suction Head Wet	9.5 metres, 31 feet	9 meters, 30 feet
Pump Weight	4.4 Kgs, 9.7 lbs	4.4 Kgs, 9.7 lbs
Max Solid Passage	1.6 mm (1/16")	1.6 mm (1/16")
Air Distribution System	Classic-Rugged Bronze Valve Body with Hard Anodized Spool	Classic-Rugged Bronze Valve Body with Hard Anodized Spool
Balls / Seals	Neoprene or Nitrile	PTFE
Air Inlet	1/4" Hose Nipple (barb)	1/4" Hose Nipple (barb)
Fluid Inlet, Fluid Outlet	1/2" NPT/BSPT/BSPP	1/2" NPT/BSPT/BSPP

Dimensions DP 12ALX



Pump Nomenclature

XX	XX	XX	X	X	X
Air Valve Type	*Pump Size*	*Material of Construction*	*Material of Diaphragm*	*Bolted or Clamped*	*Threading on Inlet and Outlet*
DP - Classic ADP - Advanced SDP - MaxFlo	06 - 1/4” 12 - 1/2” 15 - 1/2” 25 - 1” 40 - 1 - 1/2” 50 - 2 “ 75- 3” 100 - 4”	AL - Aluminium SS - Stainless Steel 316L PP - Polypropylene CI - Ductile Iron	B - Nitrile N - Neoprene S - Santoprene T - PTFE V - Viton H - Hytrel	B - Bolted C - Clamped	R- NPT G - BSPT P - BSPP F - Flanged

Air Valve Replacement Kits for DP 12 ALX Pumps

Air Valve Replacement Kit consists of a complete operational air valve assembly complete. Consisting of Air Valve Body, End Plates, Spool, o rings and gaskets.

Replacement KIT Ordering No	Suitable for
171 97 41	NPT Fitted ALX Pumps With Any Diaphragm Variant
	BSPT Fitted ALX Pumps With Any Diaphragm Variant
	BSPP Fitted ALX Pumps With Any Diaphragm Variant

Diaphragm specifications

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)
Nitile		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)
Santoprene		Good abrasion resistance. Low cost. Can handle mild acids and alkalis well. Excellent low cost alternative to ptfe. Excellent suction capabilites Excellent general purpose diaphragm. Temperature range -40°C to +107°C (-40F to +225°F)
Hytrel		Good abrasion resistance. Low cost. . Excellent suction capabilites Good general purpose diaphragm. Temperature range -29°C to +104°C (-20°F to +220°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)
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)

note: not all diaphragms may be available with this pump, see page 1 for diaphragm options for this pump.

Repair Kits for DP 12 ALX Pumps

Repair Kits consist of everything you need to quickly restore the pump. Repair Kits contain one set of Diaphragms, one set of balls, one set of seats or seats+Orings, air valve spool complete, all gaskets, end caps with fitted rings. Repair kits are threading independant.

Repair KIT Ordering No	**Suitable for**
171 97 52	DP 12 ALN
171 97 52B	DP 12 ALB
171 97 52T	DP 12 ALT

SUMMERY FOR THE ATEX RATING FOR TERYAIR AODD MODELS

Pump Size	Series	Wetted Materials	Center Section	Dipharagm Materials	ATEX Rating
06 (1/4")	SDP	Aluminium	Aluminium	Neoprene	II 2 GD Ex h IIC T6 Gb Ex h IIIC T85°C Db (IP65)
				Buna-N	
				Viton-FKM	II 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65)
				Sentoprene	II 2 GD Ex h IIC T5 Gb Ex h IIIC T100°C Db (IP65)
				Hytrel	
				PTFE	
		Stainless Steel	Stainless Steel	Neoprene	II 2 GD Ex h IIC T6 Gb Ex h IIIC T85°C Db **I M2 Ex h I Mb (IP65)**
				Buna-N	
				Viton-FKM	II 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) **I M2 Ex h I Mb (IP65)**
				Sentoprene	II 2 GD Ex h IIC T5 Gb Ex h IIIC T100°C Db (IP65) **I M2 Ex h I Mb (IP65)**
				Hytrel	
				PTFE	
12 (1/2")	DP/SDP	Aluminium	Aluminium	Neoprene	II 2 GD Ex h IIC T6 Gb Ex h IIIC T85°C Db (IP65)
				Buna-N	
				Viton-FKM	II 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65)
				Sentoprene	II 2 GD Ex h IIC T5 Gb Ex h IIIC T100°C Db (IP65)
				Hytrel	
				PTFE	
	SDP	Stainless Steel	Stainless Steel	Neoprene	II 2 GD Ex h IIC T6 Gb Ex h IIIC T85°C Db **I M2 Ex h I Mb (IP65)**
				Buna-N	
				Viton-FKM	II 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) **I M2 Ex h I Mb (IP65)**
				Sentoprene	II 2 GD Ex h IIC T5 Gb Ex h IIIC T100°C Db (IP65) **I M2 Ex h I Mb (IP65)**
				Hytrel	
				PTFE	
25 (1")	DP / SDP	Aluminium / Stainless Steel	Aluminium	Neoprene	II 2 GD Ex h IIC T6 Gb Ex h IIIC T85°C Db (IP65)
				Buna-N	
				Viton-FKM	II 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65)
				Sentoprene	II 2 GD Ex h IIC T5 Gb Ex h IIIC T100°C Db (IP65)
				Hytrel	
				PTFE	

SUMMERY FOR THE ATEX RATING FOR TERYAIR AODD MODELS

Pump Size	Series	Wetted Materials	Center Section	Dipharagm Materials	ATEX Rating
40 (1-1/2")	DP / SDP	Aluminium / Stain-less Steel	Aluminium	Neoprene	II 2 GD Ex h IIC T6 Gb Ex h IIIC T85°C Db (IP65)
				Buna-N	
				Viton-FKM	II 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65)
				Sentoprene	II 2 GD Ex h IIC T5 Gb Ex h IIIC T100°C Db (IP65)
				Hytrel	
				PTFE	
50 (2")	DP / SDP	Aluminium / Stain-less Steel	Aluminium	Neoprene	II 2 GD Ex h IIC T6 Gb Ex h IIIC T85°C Db (IP65)
				Buna-N	
				Viton-FKM	II 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65)
				Sentoprene	II 2 GD Ex h IIC T5 Gb Ex h IIIC T100°C Db (IP65)
				Hytrel	
				PTFE	
	SDP	Cast Iron	Cast Iron	Neoprene	II 2 GD Ex h IIC T6 Gb Ex h IIIC T85°C Db **I M2 Ex h I Mb (IP65)**
				Buna-N	
				Viton-FKM	"II 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) **I M2 Ex h I Mb (IP65)"**
				Sentoprene	II 2 GD Ex h IIC T5 Gb Ex h IIIC T100°C Db (IP65) **I M2 Ex h I Mb (IP65)**
				Hytrel	
				PTFE	
75 (3")	DP / SDP	Aluminium	Aluminium	Neoprene	II 2 GD Ex h IIC T6 Gb Ex h IIIC T85°C Db (IP65)
				Buna-N	
				Viton-FKM	II 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65)
				Sentoprene	II 2 GD Ex h IIC T5 Gb Ex h IIIC T100°C Db (IP65)
				Hytrel	
				PTFE	
	SDP	Cast Iron	Cast Iron	Neoprene	II 2 GD Ex h IIC T6 Gb Ex h IIIC T85°C Db **I M2 Ex h I Mb (IP65)**
				Buna-N	
				Viton-FKM	II 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) **I M2 Ex h I Mb (IP65)**
				Sentoprene	II 2 GD Ex h IIC T5 Gb Ex h IIIC T100°C Db (IP65) **I M2 Ex h I Mb (IP65)**
				Hytrel	
				PTFE	