

## VALUE FOR MONEY

# DP 50 ALX

MAX DISCHARGE 0-586 litres/minute

size, material **2", Aluminium** 

weight **26.5 Kgs** 



# AIR OPERATED DIAPHRAGM PUMP

These aluminium constructed pumps are commonly combined with Neoprene, Nitrile, Santoprene, Hytrel, Viton 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

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 Wastewater/Pollution management.



## Diaphragm Options 'X'

Neoprene Nitrile Santoprene Hytrel Viton 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 explosionproof Certified (ATEX).



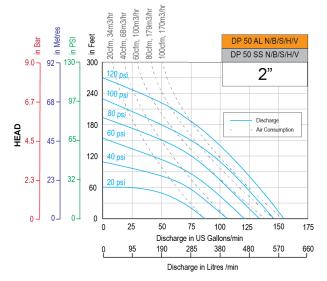
# Versatility

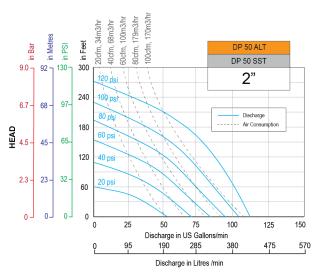
This pump handles Viscous fluids, Slurries, Solid laden fluids, Shear Sensitive fluids very well. No Priming needed No Foaming of fluid pumped No Stall damages Portable Submerged operation capable



#### Performance Graphs DP 50 ALN/ALB/ALS/ALH/ALV

#### Performance Graphs DP 50 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.

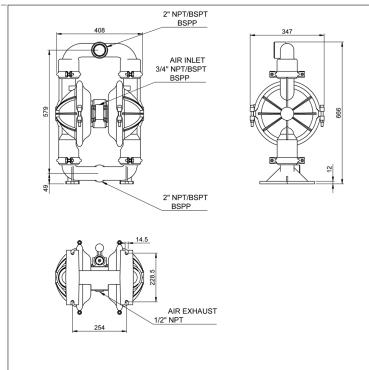
## **Technical Data DP 50ALX**

	DP 50AL with Neoprene / Nitrile / Santo- prene / Hytrel / Viton fitments	DP 50AL with PTFE Fitments	
Maximum Discharge	586 Litres/min (155 US gallons/min)	424 Litres/min (112 US gallons/min)	
Suction Head Dry	6.4 meters, 21 feet	3.6 meters, 12 feet	
Suction Head Wet	9.5 meters, 31 feet	9.5 meters, 31 feet	
Pump Weight	26.5 Kgs, 58 lbs	26 Kgs, 57 lbs	
Max Solid Passage	6.4 mm (1/4")	6.4 mm (1/4")	
Air Distribution System	Classic-Rugged Bronze Valve Body with Hard Anodized Aluminium Spool	Classic-Rugged Bronze Valve Body with Hard Anodized Aluminium Spool	
Balls / Seals	Santoprene or Hytrel or Nitrile or Neo- prene or Viton	PTFE	
Air Inlet	3/4" NPT/BSPT/BSPP	3/4" NPT/BSPT/BSPP	
Fluid Inlet, Fluid Outlet	2" NPT/BSPT/BSPP	2" NPT/BSPT/BSPP	



# VALUE FOR MONEY

## **Dimensions DP 50 ALX**



### **Pump Nomenclature**

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

## Air Valve Replacement Kits for DP 50 ALX/SSX Pumps

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

Replacement KIT Ordering No	Suitable for
202 97 03	NPT Fitted ALX or SSX Pumps With Any Diaphragm Variant
202 97 04	BSPT Fitted ALX or SSX Pumps With Any Diaphragm Variant
202 97 05	BSPP Fitted ALX or SSX Pumps With Any Diaphragm Variant



# **Diaphragm specifications**

Neoprene	An excellent general-purpose diaphragm for use in non-aggressive applications such as water-based slur- ries, 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-ba- sed fluids such as leaded gasolines, fuel oils, non-syn- thetic 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 suc- tion 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 50 ALX /SSX 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
202 97 06N	DP 50 ALN / SSN
202 97 06B	DP 50 ALB / SSB
202 97 065	DP 50 ALS / SSS
202 97 06H	DP 50 ALH / SSH
202 97 06V	DP 50 ALV / SSV
202 97 06T	DP 50 ALT / SST



#### SUMMERY FOR THE ATEX RATING FOR TERYAIR AODD MODELS

Pump Size	Series	Wetted Materials	Center Section	Dipharagm Materials	ATEX Rating
	Aluminium		Neoprene	ll 2 GD Ex h IIC T6 Gb	
			Buna-N	Ex h IIIC T85°C Db (IP65)	
		Aluminium	Viton-FKM	ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200⁰C Db (IP65)	
				Sentoprene	
			Hytrel	ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65)	
				PTFE	
06 (1/4")	SDP			Neoprene	ll 2 GD Ex h IIC T6 Gb
(1/4)				Buna-N	Ex h IIIC T85°C Db I M2 Ex h I Mb (IP65)
	Stainless Steel	Stainless Steel	Viton-FKM	ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) <b>I M2 Ex h I Mb (IP65)</b>	
				Sentoprene	ll 2 GD Ex h IIC T5 Gb
				Hytrel	Ex h IIIC T100ºC Db (IP65)
				PTFE	I M2 Ex h I Mb (IP65)
		Aluminium	Aluminium	Neoprene	ll 2 GD Ex h IIC T6 Gb
				Buna-N	Ex h IIIC T85ºC Db (IP65)
DP/SDP	DP/SDP			Viton-FKM	ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200⁰C Db (IP65)
				Sentoprene	
				Hytrel	ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65)
				PTFE	
12			-	Neoprene	ll 2 GD Ex h IIC T6 Gb
(1/2")				Buna-N	Ex h IIIC T85ºC Db <b>I M2 Ex h I Mb (IP65)</b>
SDP	Stainless Steel	Stainless Steel	Viton-FKM	ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) I M2 Ex h I Mb (IP65)	
				Sentoprene	ll 2 GD Ex h IIC T5 Gb
				Hytrel	Ex h IIIC T100ºC Db (IP65)
				PTFE	I M2 Ex h I Mb (IP65)
				Neoprene	ll 2 GD Ex h IIC T6 Gb
25 (1") DP / SDP				Buna-N	Ex h IIIC T85°C Db (IP65)
	Aluminium / Stain-	Aluminium	Viton-FKM	ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65)	
	SDP	less Steel		Sentoprene	
				Hytrel	ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65)
			PTFE	LA II III C I 100 C DD (IF 03)	



#### SUMMERY FOR THE ATEX RATING FOR TERYAIR AODD MODELS

Pump Size	Series	Wetted Materials	Center Section	Dipharagm Materials	ATEX Rating
40 DP / (1-1/2") SDP			Aluminium	Neoprene	ll 2 GD Ex h IIC T6 Gb
				Buna-N	Ex h IIIC T85°C Db (IP65)
		Aluminium / Stain- less Steel		Viton-FKM	ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200⁰C Db (IP65)
	3DP			Sentoprene	ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65)
				Hytrel	
				PTFE	
				Neoprene	ll 2 GD Ex h IIC T6 Gb
				Buna-N	Ex h IIIC T85ºC Db (IP65)
	DP / SDP	Aluminium / Stain- less Steel	Aluminium	Viton-FKM	ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200⁰C Db (IP65)
	SDP	less steel		Sentoprene	
				Hytrel	ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65)
				PTFE	EX II IIIC I 100 C D0 (1P65)
50 (2")		P Cast Iron	Cast Iron	Neoprene	ll 2 GD Ex h IIC T6 Gb
				Buna-N	Ex h IIIC T85ºC Db <b>I M2 Ex h I Mb (IP65)</b>
SDP	SDP			Viton-FKM	"ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) I M2 Ex h I Mb (IP65)"
				Sentoprene	ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65) <b>I M2 Ex h I Mb (IP65)</b>
				Hytrel	
				PTFE	
			Aluminium	Neoprene	ll 2 GD Ex h IIC T6 Gb Ex h IIIC T85⁰C Db (IP65)
				Buna-N	
	DP /	Aluminium		Viton-FKM	ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200⁰C Db (IP65)
SDP	SDP			Sentoprene	ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65)
				Hytrel	
				PTFE	
75 (3")				Neoprene	ll 2 GD Ex h IIC T6 Gb
		Cast Iron	Cast Iron	Buna-N	Ex h IIIC T85ºC Db I M2 Ex h I Mb (IP65)
	SDP			Viton-FKM	ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200⁰C Db (IP65) <b>I M2 Ex h I Mb (IP65)</b>
				Sentoprene	ll 2 GD Ex h IIC T5 Gb
				Hytrel	Ex h IIIC T100°C Db (IP65) I M2 Ex h I Mb (IP65)
				PTFE	