

SDP 75 CIX

MAX DISCHARGE

0-864 litres/minute

SIZE, MATERIAL

3", Aluminium

WEIGHT

90 Kgs



AIR OPERATED DIAPHRAGM PUMP

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.



Diaphragm Options 'X'

Neoprene
Nitrile
Santoprene
Hytrel
Viton



Approvals and Certifications

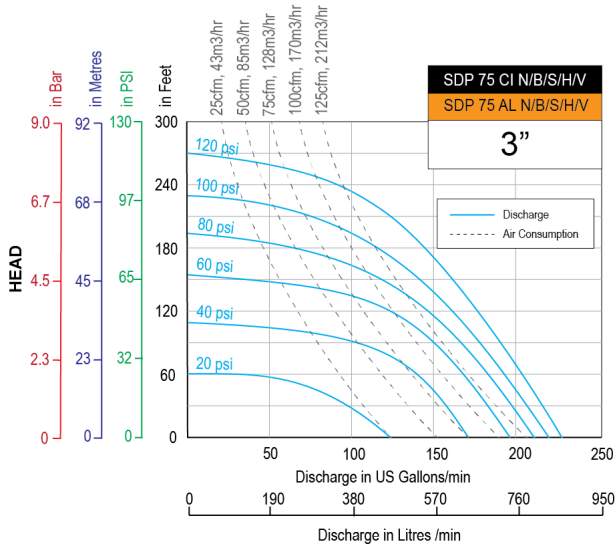
All Teryair pumps are CE marked and manufactured under an ISO 9001:2015 Quality system by SGS. All Teryair aluminum, Ductile iron, and Stainless Steel pumps are explosion-proof Certified (ATEX).



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

Performance Graphs SDP 75 CIN/CIB/CIS/CIH/CIV

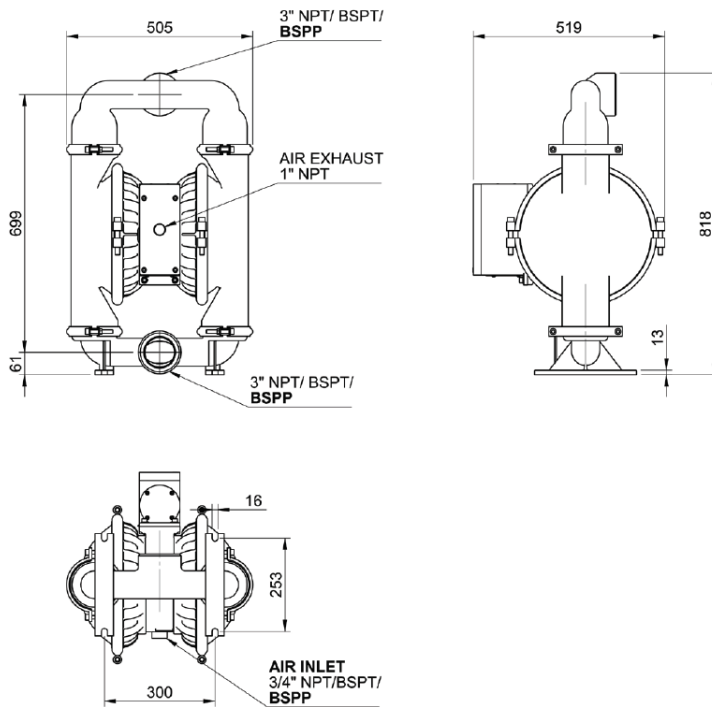


- Performance as measured pumping water at 20degC.
- **Disclaimer:** Actual pump performance may vary depending on number of bends, suction needed and friction in length of discharge piping.
- For guidance on how to select a suitable pump, visit Teryair AODD pump Selection guide.

Technical Data SDP 75CIX

	SDP 75CI with Neoprene / Nitrile / Santoprene / Hytrel / Viton fitments
Maximum Discharge	864 Litres/min (228 US gallons/min)
Suction Head Dry	5.5 meters, 18 feet
Suction Head Wet	9.5 meters, 31 feet
Pump Weight	90 Kgs, 198 lbs
Max Solid Passage	9.5 mm (3/8")
Air Distribution System	SDP MaxFlo, MOC Ductile Iron, acetal and CFT seals
Balls / Seals	Santoprene or Hytrel or Nitrile or Neoprene or Viton
Air Inlet	3/4" NPT/BSPT/BSPP
Fluid Inlet, Fluid Outlet	3" NPT/BSPT/BSPP

Dimensions SDP 75 CIX



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	06 - 1/4"	AL - Aluminium	B - Nitrile N - Neoprene S - Santoprene	B - Bolted	R- NPT
	12 - 1/2"				
ADP - Advanced	15 - 1/2"	SS - Stainless Steel 316L	T - PTFE V - Viton H - Hytrel	C - Clamped	G - BSPT
SDP - MaxFlo	25 - 1"	PP - Polypropylene			
	40 - 1 - 1/2"	CI - Ductile Iron	F - Flanged		
	50 - 2 "				
	75- 3"				
100 - 4"					

Air Valve Replacement Kits for SDP 75 CIX 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
212 97 03	NPT Fitted CIX Pumps With Any Diaphragm Variant
	BSPT Fitted CIX Pumps With Any Diaphragm Variant
	BSPP Fitted CIX 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 ptfе. Excellent suction capabilities Excellent general purpose diaphragm. Temperature range -40°C to +107°C (-40F to +225°F)
Hytrel		Good abrasion resistance. Low cost. . Excellent suction capabilities 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 SDP 75 CIX / 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, secondary shaft complete with seals, air valve spool complete with fitted seals, all gaskets, end caps with fitted rings and other wear parts needed to rebuild the pump. Repair kits are threading independant.

Repair KIT Ordering No	Suitable for
212 97 02N	SDP 75 CIN / ALN
212 97 02B	SDP 75 CIB / ALB
212 97 02S	SDP 75 CIS / ALS
212 97 02H	SDP 75 CIH / ALH
212 97 02V	SDP 75 CIV / ALV
212 97 02T	SDP 75 CIT / ALT

SUMMARY FOR THE ATEX RATING FOR TERYAIR AODD MODELS

Pump Size	Series	Wetted Materials	Center Section	Diphargm 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	

SUMMARY FOR THE ATEX RATING FOR TERYAIR AODD MODELS

Pump Size	Series	Wetted Materials	Center Section	Diphargm 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	