



SALES & ENGINEERING DATA

2" NON-METALLIC DIAPHRAGM PUMP (DP21)

SPECIFICATIONS:

Air Inlet(female): 3/8"BSPT(3/8"NPT Available On Request)

Fluid Outlet: 2" ANSI/DIN Flange

Fluid Inlet: 2" ANSI/DIN Flange

Maximum Flow Rate: 145GPM(548.8LPM)

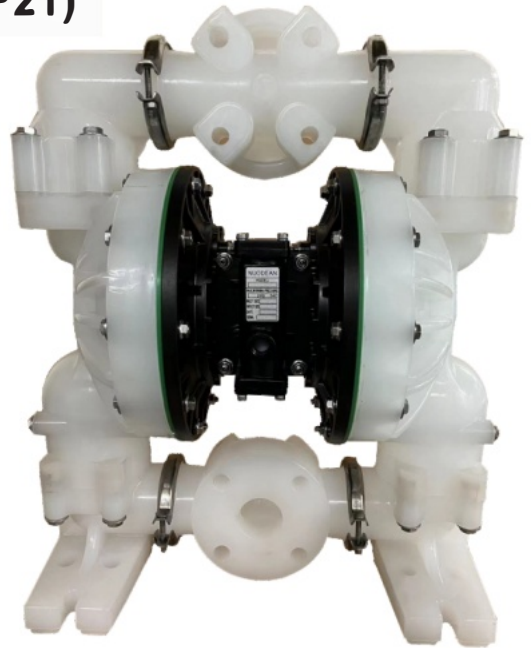
Max. Operating Pressure: 120psi(8.3bar)

Suspended Solids Max. Dia.: 1/4"(6.4mm)

Maximum Dry Suction Lift: 14feet(4.27m)

Weight: 62 lbs(28.1kg)

Sound Level:70psi 60 cycles/min. 77.7db(A)



MODEL DESCRIPTION & ORDERING:

DP21	-	50	X	X	X	X	X	X	X
		Pump Size	Center Body Mat.	Fluid Caps & Manifold Mat.	Seat Material	Ball Check Material	Diaphragm Material	Fluid Connections	Hardware

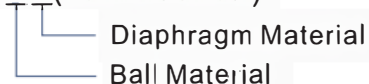
Pump Size	50-2"			
Center Body Mat.	A-Aluminum		P-Polypropylene	
Fluid Caps & Manifold Mat.	3 - Polypropylene(Colorless)		P-Polypropylene(Grey)	4 -PVDF(Kynar)
Seat Material	2 - 316 Stainless Steel	3 - Polypropylene	4-PVDF(Kynar)	8-Hard Stainless Steel
Ball Check Material	1-Neoprene	2-Nitrile	3-Viton	4-PTFE
	5-E.P.R.	8-Polyurethane	C-Hytrel	E-Santoprene
Diaphragm Material	1-Neoprene	2-Nitrile	3-Viton	4-PTFE/Santoprene
	5-E.P.R.	6-Composite PTFE	9-Hytrel	B-Santoprene
Fluid Connections	F-ANSI 150 Flange	N-NPT Threads	B-BSP Threads	
Hardware	S-Stainless Steel			

ACCESSORIES:

Service Repair Kits:

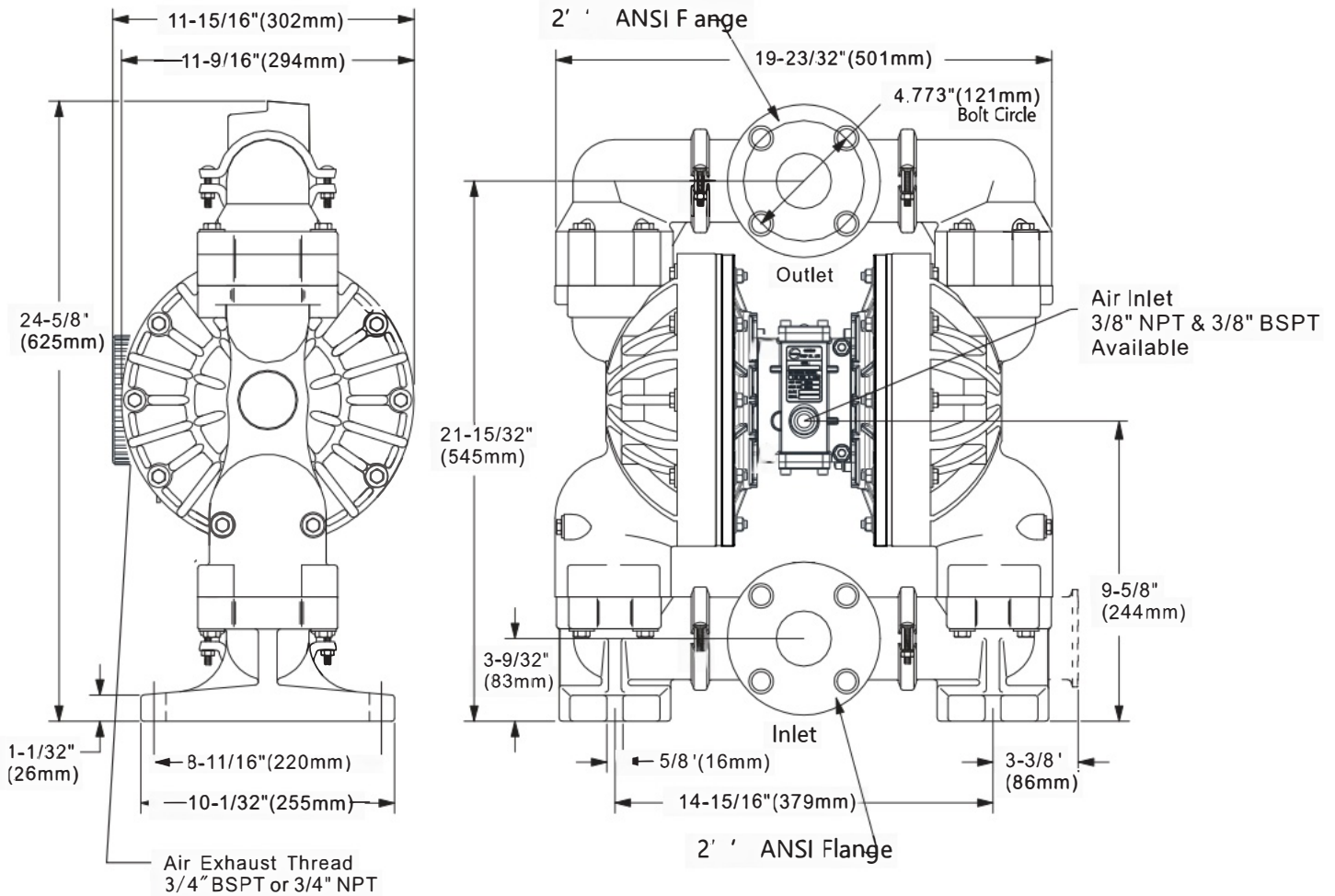
DP21-Air40(air section)

DP21-Flu40P-XX(fluid section)

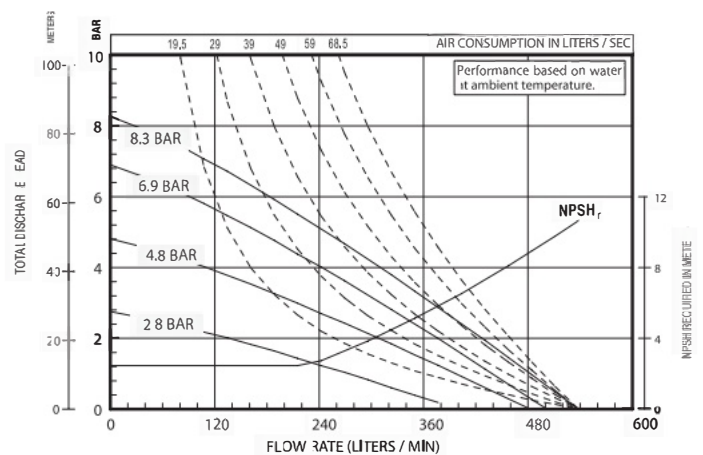
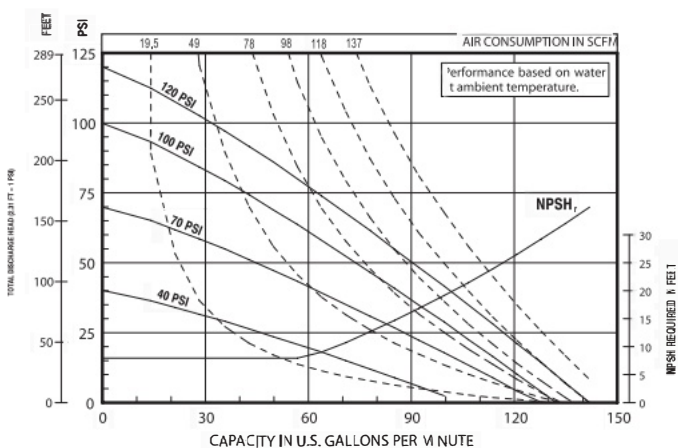


DIMENSIONS:

All dimensions are given in inches and millimeters (mm).



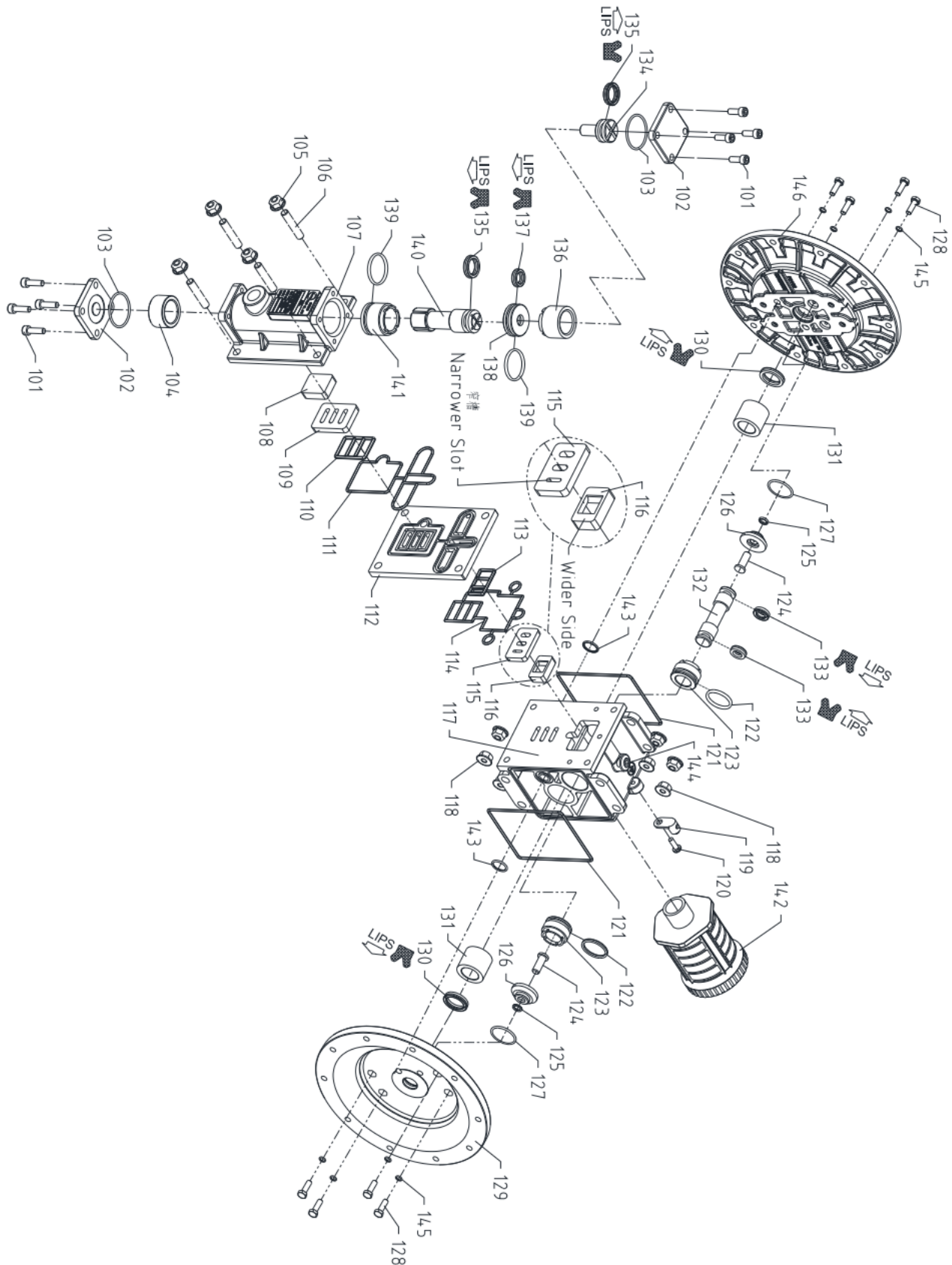
PERFORMANCE CURVE:



2" NON-METALLIC DIAPHRAGM PUMP (DP21)

nuodeanfluid.com | DP Series Diaphragm Pumps | sales@nuodeanpump.com

Exploded View Of Air Motor Section

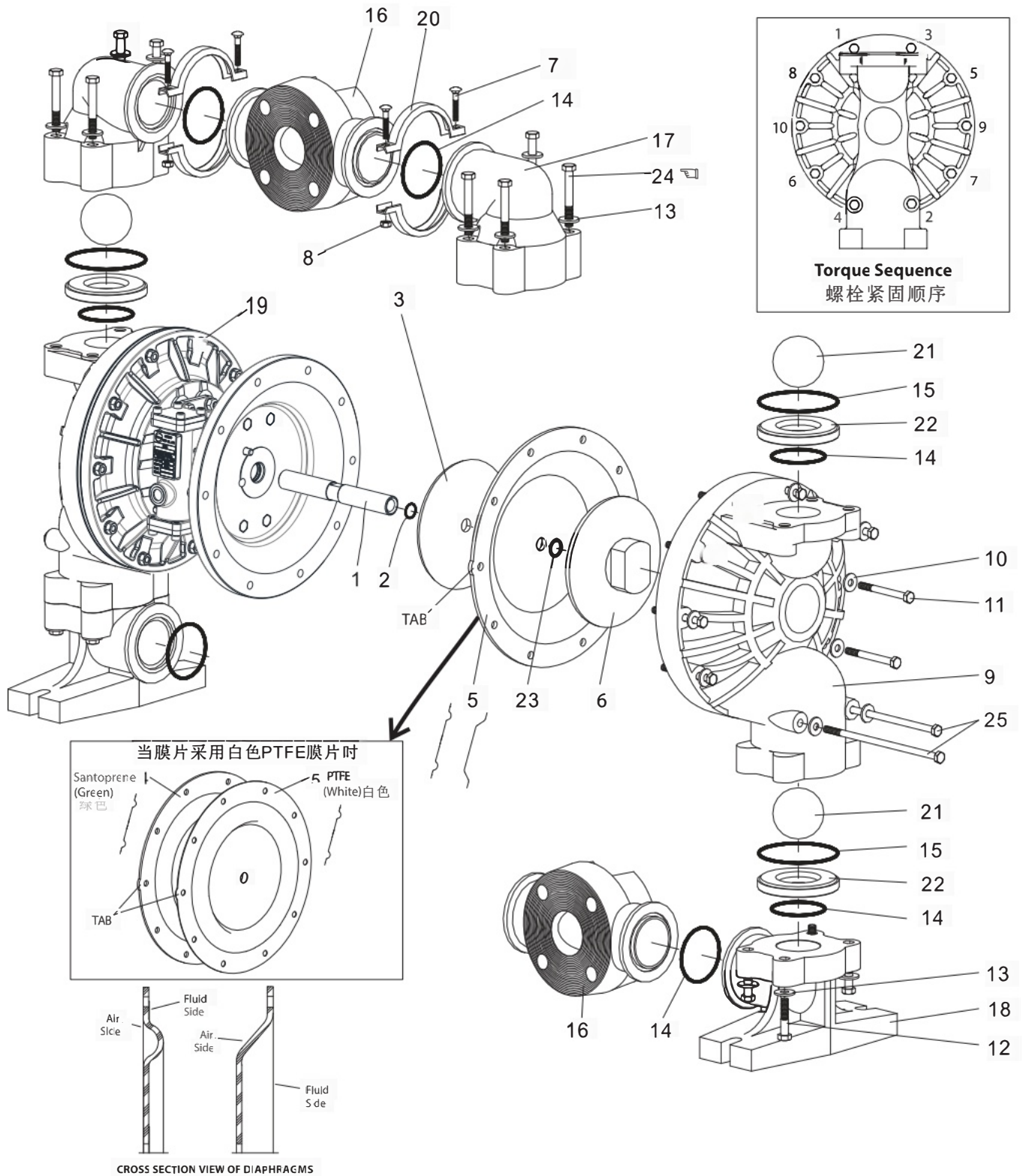


Parts List Of Air Motor Section

Part List Air Motor Section 2" DP21 Non-Metallic Diaphragm Pump				
Position number	Description	Part number	Material	Quantity
101	Screw(M6*16)	NDA-PX16	Steel	8
	Screw(M6*16)	NDA-PX17	Stainless Steel	8
102	Motor Cap	NDA-PJ66	Aluminum	2
103	O-Ring 35*2.4(ID*Sec.)	NDA-PY14	Nitrile	2
104	Guide Bush	NDA-PK77	POM	1
105	Nut(M8)	NDA-PX11	Steel	4
	Nut(M8)	NDA-PX12	Stainless Steel	4
106	Screw(M8*40)	NDA-PX14	Stainless Steel	4
107	Air Valve Body	NDA-PI66	Aluminum	1
108	Valve Insert	NDA-PK83	Ceramic	1
109	Valve Plate	NDA-PK84	Ceramic	1
110	Gasket	NDA-PF67	Nitrile	1
111	Gasket	NDA-PF66	Nitrile	1
112	Adapter Plate	NDA-PN67	Aluminum	1
113	Gasket	NDA-PF69	Nitrile	1
114	Gasket	NDA-PF68	Nitrile	1
115	Valve Plate	NDA-PK75	Ceramic	1
116	Valve Insert	NDA-PK76	Ceramic	1
117	Pump Body	NDA-PA66	Aluminum	1
118	Nut(M8)	NDA-PX11	Steel	8
	Nut(M8)	NDA-PX12	Stainless Steel	8
119	Ground Lug	93004	Copper	1
120	Screw (M5x15)	NDA-PX15	Stainless Steel	1
121	Gasket	NDA-PF70	Nitrile	2
122	O-ring 25*2.65 (ID*Sec.)	NDA-PY15	Nitrile	2
123	Guide Bush	NDA-PK69	POM	2
124	Pilot Pin	NDA-PK140	Stainless Steel	2
125	O-ring 5*1.5 (ID*Sec.)	NDA-PY16	PU/NBR	2
126	Retainer Ring	NDA-PK139	Brass	2
127	O-Ring 25*2.65 (ID*Sec.)	NDA-PY15	Nitrile	2
128	Bolt (M8x25)	NDA-PX25	Steel	8
	Bolt (M8x25)	NDA-PX26	Stainless Steel	8
129	Right Air Cap	NDA-PB109	Aluminum	1
130	Y Seal Ring (31*23*4.5)	NDA-PS203	Nitrile	2
131	Bush	NDA-PG68	POM	2
132	Spool	NDA-PK73	POM	1
133	Y Seal Ring(18*10*4.5)	NDA-PS67	Nitrile	2
134	Shaft	NDA-PK80	Nitrile	1
135	Y Seal Ring(25x17x4.5)	NDA-PS68	Nitrile	2
136	Bush	NDA-PK79	POM	1
137	Y Seal Ring(20x12x4.5)	NDA-PS69	Nitrile	1
138	Retainer Ring	NDA-PK81	POM	1
139	O-ring 30*2.65(ID*Sec.)	NDA-PY18	Nitrile	2
140	Spool	NDA-PK78	POM	1
141	Guide Bush	NDA-PK82	POM	1
142	Muffler	93139	Polypropylene	1
143	O-ring 15*2.65 (ID*Sec.)	NDA-PY17	Nitrile	2
144	Plug 1/8"	NDA-PN106	Stainless Steel	1
145	O-ring 7*2(ID*Sec.)	NDA-PY25	Nitrile	8
146	Left Air Cap	NDA-PB108	Aluminum	1

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Exploded View Of Fluid Section



Parts List Of Fluid Section

Part List Fluid Section 2" DP21 Non-Metallic Diaphragm Pump				
Position number	Description	Part number	Material	Quantity
1	Rod	NDA-PD76	Stainless Steel	1
2	O-Ring	Y328-16	PTFE	2
3	Plate-Air Side	NDA-PH68	Electrophoretic Steel	2
4	Backer Diaphragm	94616	Santoprene (Green)	2
5	Diaphragm	92755-1	Neoprene	2
		92755-2	Nitrile	2
		92755-3	Viton	2
		94617	PTFE	2
		94615-9	Hytrel	2
		94615-A	Santoprene (Yellow)	2
6	Diaphragm Nut	93243-1-Metric	Polypropylene	2
		93243-2-Metric	PVDF	2
7	Bolt(1/4" - 20 x 1-3/4")	Y84-403-T-L	Stainless Steel	8
8	Nut (1/4" - 20)	Y12-4-S	Stainless Steel	8
9	Fluid Cap	94905-1-Metric	Polypropylene	2
		94905-1-White	Polypropylene	2
		93244-2-NDA	PVDF	2
10	Washer(5/16")	93359-1	Stainless Steel	20
11	Bolt M8x70	NDA-PX39	Stainless Steel	16
12	Bolt M10x55	NDA-PX30	Stainless Steel	8
13	Washer 3/8"	93360-1	Stainless Steel	16
14	O-ring (ID*Sec.63.09*4)	93363-1	PTFE(Capsule Type)	8
		92761	E.P.R	8
		Y327-230	Viton	8
15	O-ring (ID*Sec.91.44*5.5)	95910	PTFE(Capsule Type)	4
		95912	E.P.R	4
		Y327-342	Viton	4
16	Swivel	93240-1-NDA	Polypropylene	2
		93240-1-White	Polypropylene	2
		93242-2-NDA	PVDF	2
17	Manifold, Outlet (Top)	93242-1-NDA	Polypropylene	2
		93242-1-White	Polypropylene	2
		93242-2-NDA	PVDF	2
18	Manifold, Foot (Bottom)	93241-1-NDA	Polypropylene	2
		93241-1-White	Polypropylene	2
		93241-2-NDA	PVDF	2
19	Nut M8	NDA-FX12	Stainless Steel	20
20	Clamp	93357-1	Stainless Steel	8
21	Ball (63.5mm dia.)	93358-1	Neoprene	4
		93358-2	Nitrile	4
		93358-3	Viton	4
		93358-4	PTFE	4
		93358-8	Polyurethane	4
		93358-C	Hytrel	4
		93358-A	Santoprene	4
22	Seat	96849	Stainless Steel ANSI316	4
		97171-1	Polypropylene	4
		97171-2	PVDF	4
		97179	Harc Stainless Steel	4
23	O-ring	Y328-208	PTFE	2
24	Bolt M10x70	NDA-PX41	Stainless Steel	8
25	Bolt M8x185	NDA-FX42	Stainless Steel	4
26	Plastic Cap	NDA-PU10	Plastic	2
27	Plastic Cap	NDA-PU02	Plastic	1

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