



SALES & ENGINEERING DATA

1-1/2" METALLIC DIAPHRAGM PUMP (DP21S)

(With Side Ports)

SPECIFICATIONS:

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

Fluid Outlet: Rp 1-1/2 (1-1/2 BSP,parallel)
1-1/2 NPT

Fluid Inlet: Rp 1-1/2 (1-1/2 BSP,parallel)
1-1/2 NPT

Maximum Flow Rate: 90 GPM(340.7 LPM)

Max. Operating Pressure: 120psi(8.3 bar)

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

Maximum Dry Suction Lift: 19feet(5.8m)

Weight: aluminum-51.5 lbs(23.4kg);
stainless steel-84.5 lbs(38.3kg);
cast iron-79.5 lbs(36.1kg);

Sound Level:70psi 60 cycles/min. 80.5db(A)



MODEL DESCRIPTION & ORDERING:

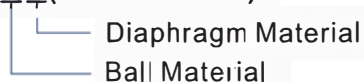
DP21S	-	40	X	X	X	X	X	X	X
		Pump Size	Center Body Mat.	Fluid Caps Manifold Mat.	Seat Material	Ball Check Material	Diaphragm Material	Fluid Connections	Hardware
Pump Size			40-1 1/2"						
Center Body Mat.			A-Aluminum			C-Cast Iron			
Fluid Caps Manifold Mat.			A - Aluminum			S -Stainless Steel		C-Cast ron	
Seat Material			1 - Aluminum		2 - 316 Stainless Steel	3-Polypropylene		4-PVDF(Kynar)	
			5-Carbon Steel		8-Hard 400 Stainless Steel				
Ball Check Material			1-Neoprene		2-Nitrile	3-Viton		4-PTFE	
			5-E.P.R		6-Acetal	8-Polyurethane		A-Stainless Steel	
			C-Hytrel			E-Santoprene			
Diaphragm Material			1-Neoprene		2-Nitrile	3-Viton		4-PTFE/Santoprene	
			5-E.P.R		6-Aceta	9-Hytrel		B-Santoprene	
			G-Nitrile						
Fluid Connections			N-NPT Threads			B-BSP Threads			
Hardware			S-Stainless Steel			C-Carbon Steel			

ACCESSORIES:

Service Repair Kits:

DP21-Air40(air section)

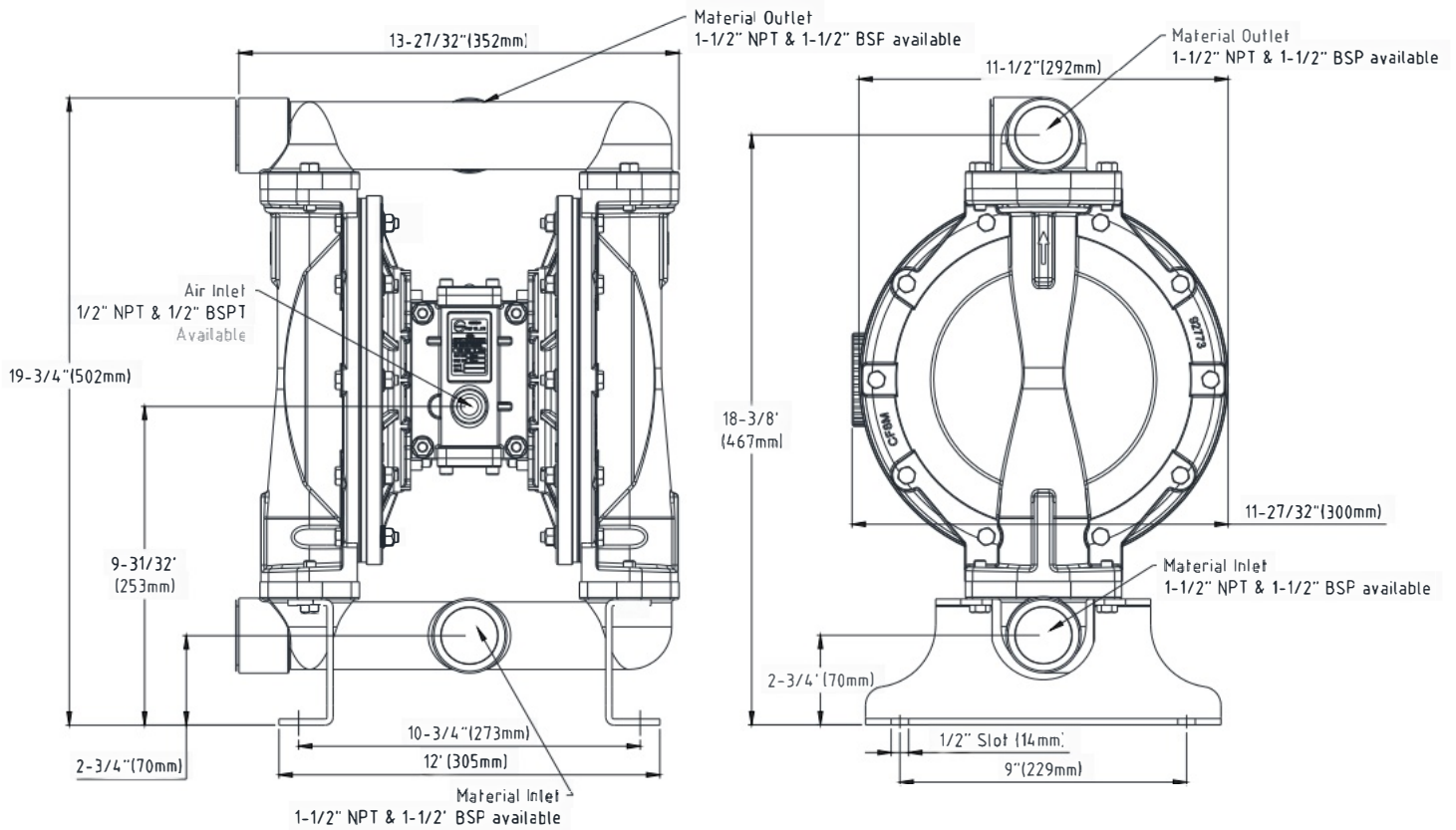
DP21-Flu40 - XX(fluid section)



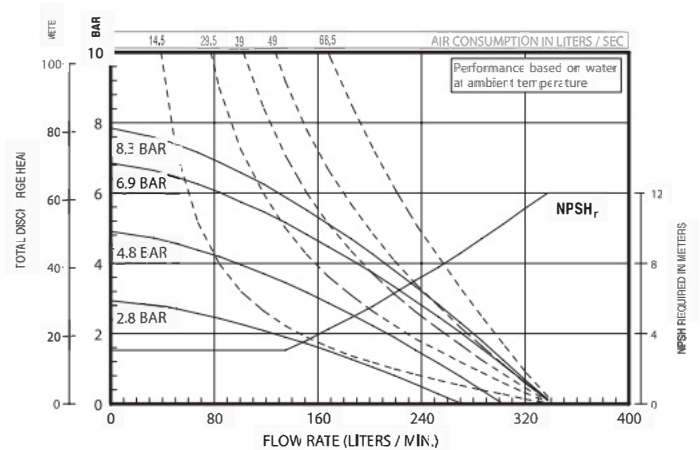
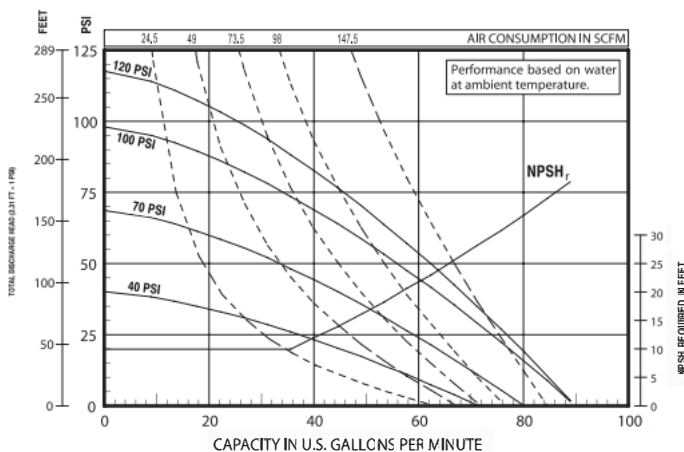
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DIMENSIONS:

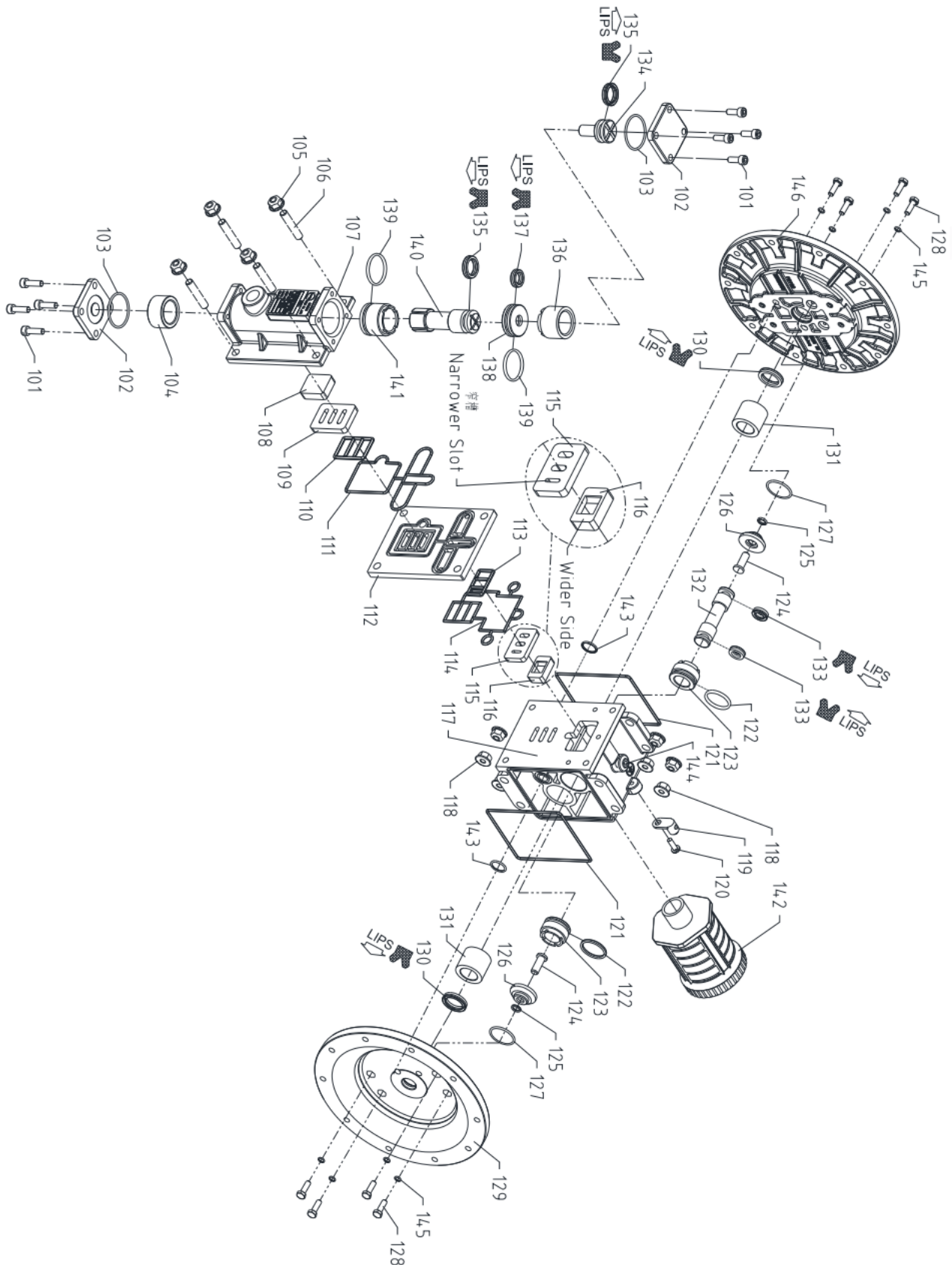


PERFORMANCE CURVE:



1-1/2" METALLIC DIAPHRAGM PUMP (DP21S)

Exploded View Of Air Motor Section



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03



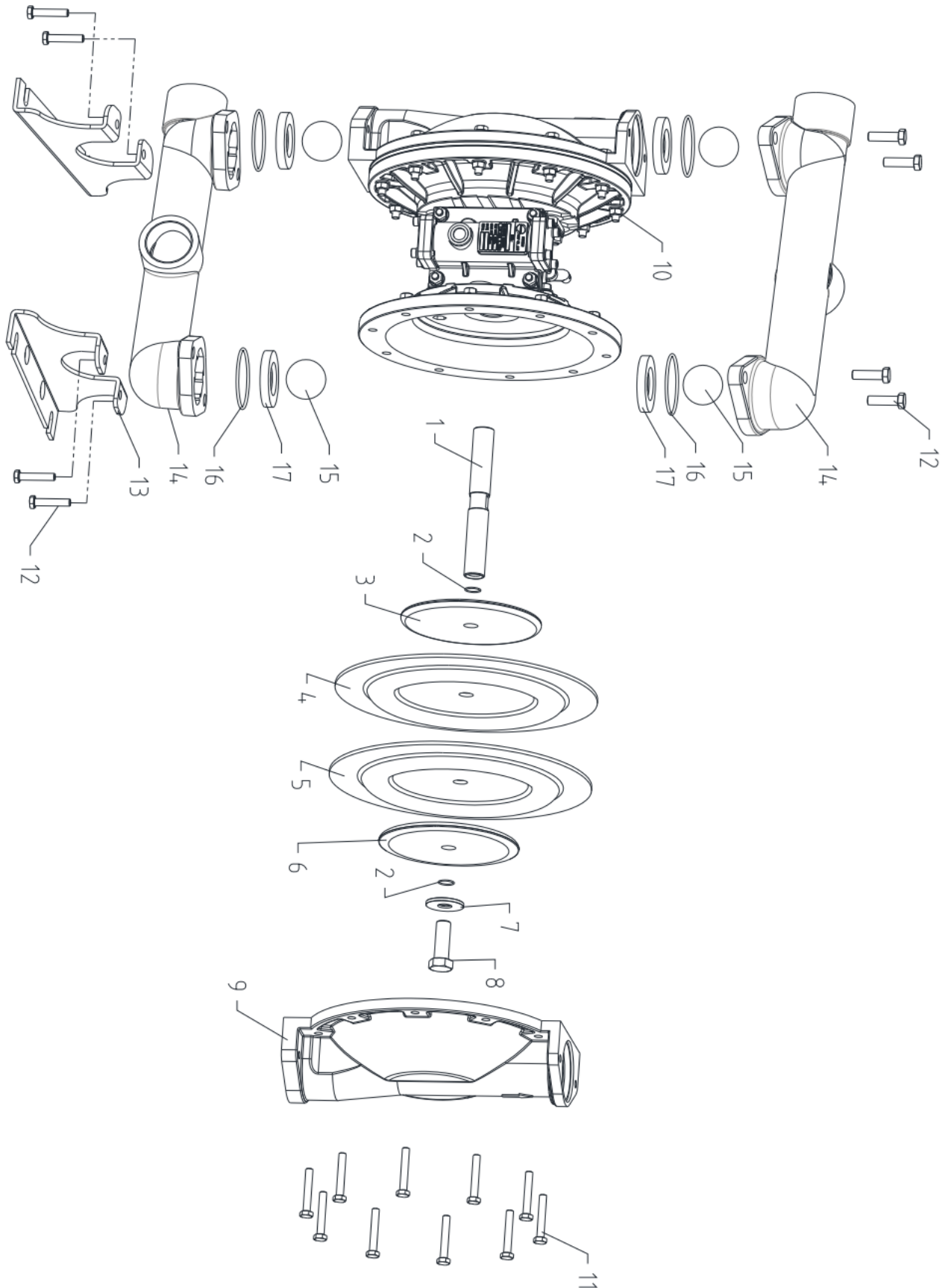
SALES & ENGINEERING DATA

Parts List Of Air Motor Section

Part List Air Motor Section 1-1/2" DP21S Metallic Diaphragm Pump(With Side Ports)				
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

1-1/2" METALLIC DIAPHRAGM PUMP (DP21S)

Exploded View Of Fluid Section



Parts List Of Fluid Section

Part List Fluid Section 1-1/2" DP21S Metallic Diaphragm Pump(With Side Ports)				
Position number	Description	Part number	Material	Quantity
1	Rod	NDA-PD76	SS304	1
2	O-ring	Y328-16	PTFE	4
3	Washer-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	Washer-Fluid Side	92775	Stainless Steel	2
7	Washer	93065	Stainless Steel	2
8	Bolt M16x1.5x45	NDA-PX32	Stainless Steel	2
9	Fluid Cap	92750	Aluminum	2
		97621	Stainless Steel ANSI 316	2
		92778	Cast Iron	2
10	Nut (M8)	NDA-PX11	Steel	20
		NDA-PX12	Stainless Steel	20
11	Bolt (M8x45)	NDA-PX62	Steel	20
		NDA-PX63	Stainless Steel	20
12	Bolt (M10x35)	NDA-PX64	Steel	8
		NDA-PX65	Stainless Steel	8
	Bolt (3/8" - 16 x 1-1/4")	Y6-66-T	Stainless Steel	8
13	Leg	NDA-PN110	Electrophoretic Steel	2
		NDA-PN109	Stainless Steel	2
14	Manifold	PC149 (BSP)	Aluminum	2
		PC149-1 (NPT)	Aluminum	2
		PC150 (BSP)	Stainless Steel ANSI 316	2
		PC150-1 (NPT)	Stainless Steel ANSI 316	2
15	Ball (44.45mm dia.)	92757-1	Neoprene	4
		92757-2	Nitrile	4
		92757-3	Viton	4
		92757-4	PTFE	4
		92757-5	E.P.R	4
		94804	Stainless Steel	4
		92757-C	Hytrel	4
		92757-A	Santoprene(Yellow)	4
16	O-ring	Y325-230	Nitrile	4
		Y327-230	Viton	4
		Y220-230	PTFE	4
		92761	E.P.R	4
17	Seat	92760	Aluminum	4
		92776	Stainless Steel ANSI 316	4
		92924	Polypropylene	4
		95676	Carbon Steel	4

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