

1" NON-METALLIC DIAPHRAGM PUMP (DP31)

SPECIFICATIONS:

Air Inlet(female): 1/4"BSPT(1/4"NPT Available On Request)

Fluid Outlet(female): BSP1", 1"NPT , Or 1" ANSI/DIN Flange

Fluid Inlet(female): BSP 1", 1"NPT , Or 1" ANSI/DIN Flange

Maximum Flow Rate: 47GPM(177.9LPM)

Max. Operating Pressure: 120psi(8.3bar)

Suspended Solids Max. Dia.: 1/8"(3.2mm)

Maximum Dry Suction Lift: 15feet(4.6m)

Weight: 20.3 lbs(9.2kg)

Sound Level:70psi 60 cycles/min. 64.5db(A)



MODEL DESCRIPTION & ORDERING:

DP31	-	25	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

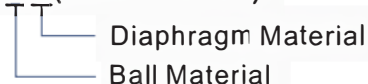
Pump Size	25-1"			
Center Body Mat.	A-Aluminum		P-Polypropylene	
Fluid Caps Manifold Mat.	3 - Polypropylene		4 -PVDF(Kynar)	
Seat Material	2 - 316 Stainless Steel	3 - Polypropylene	4-PVDF(Kynar)	8-Hard Stainless Steel
Ball Check Material	1-Neoprene	2-Nitrile	3-Viton	4-PTFE
	5-E.P.R.	8-Polyurethane	C-Hytrel	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:

DP31-Air25(air section)

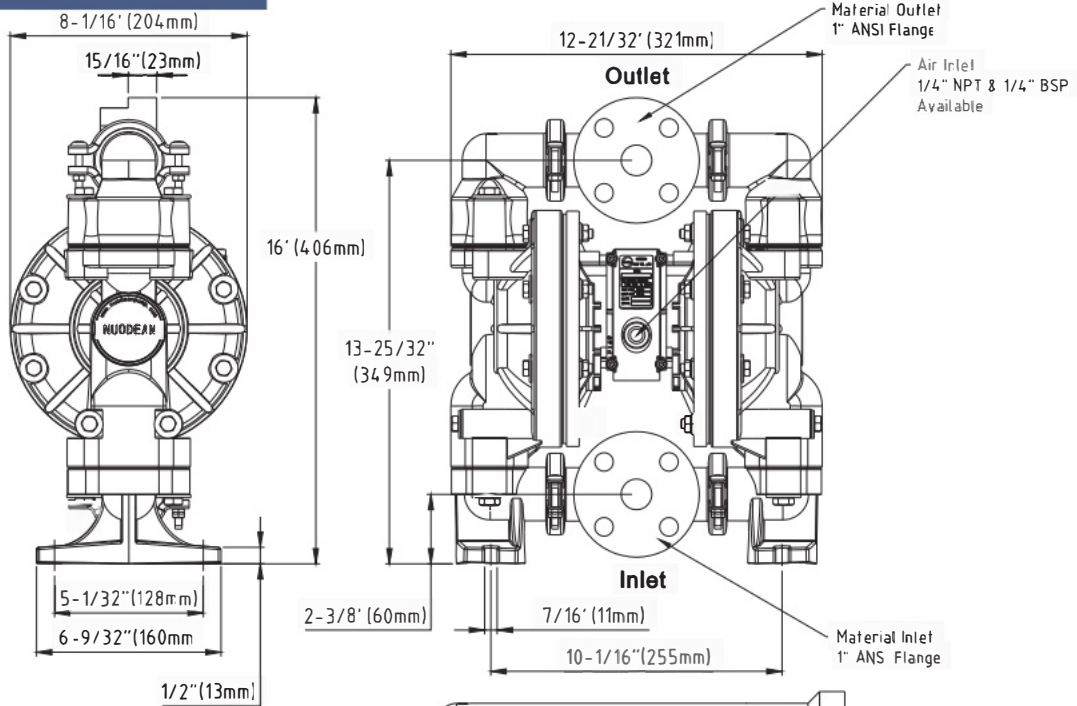
DP31-Flu25P-XX(fluid section)



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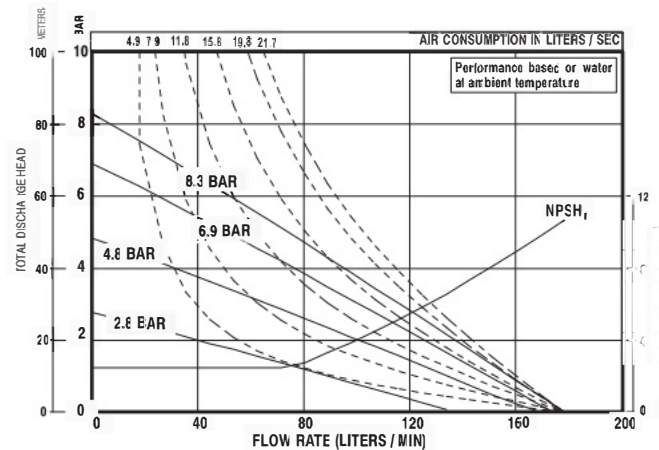
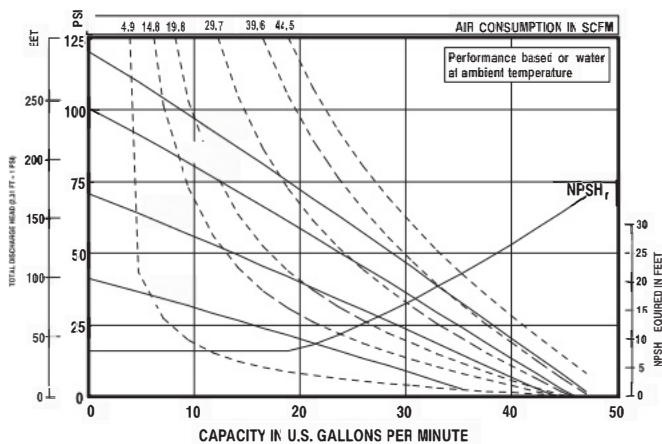
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DIMENSIONS:

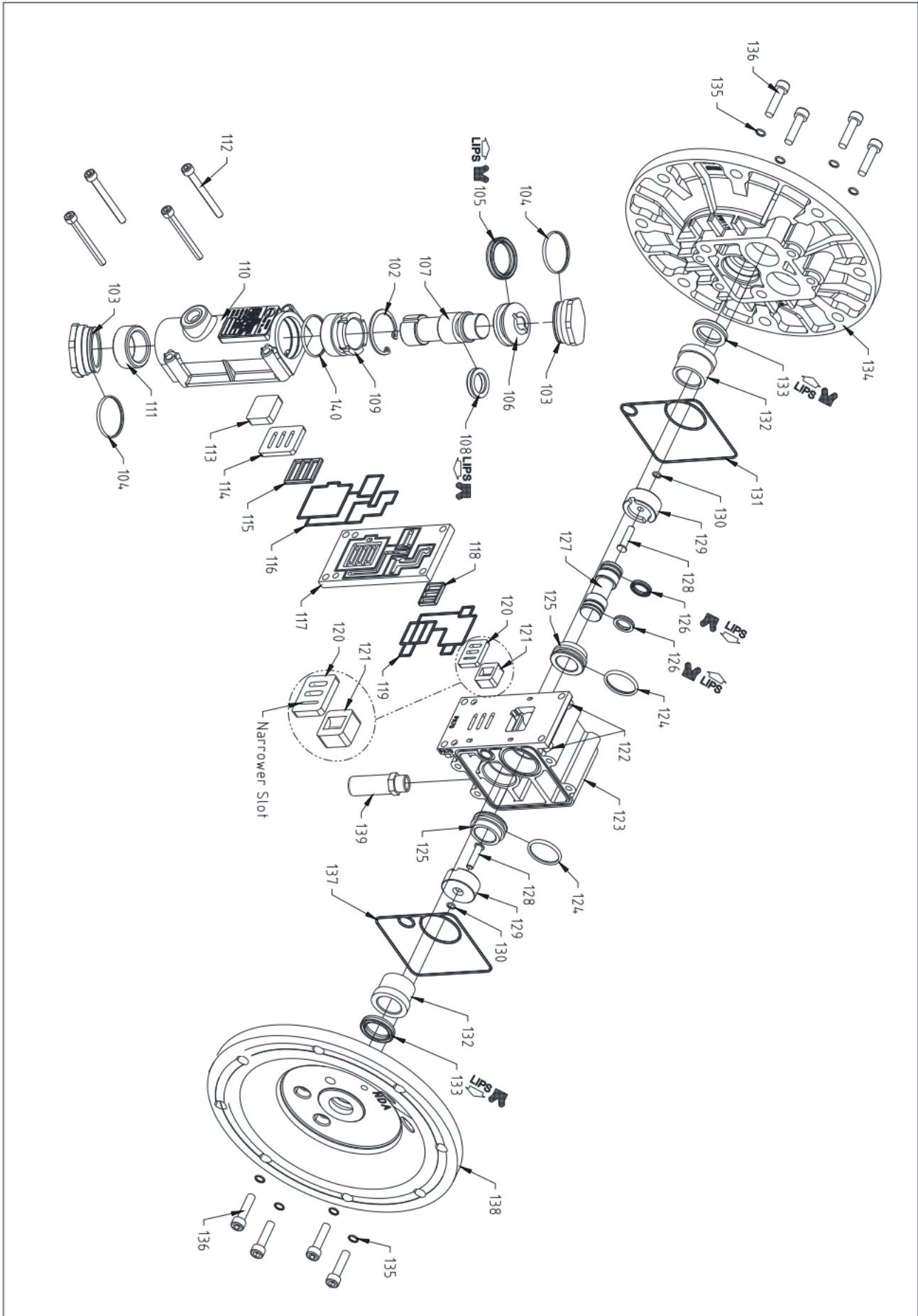


Dimensions shown are for reference only. they are displayed in inches and millimeters (mm)

PERFORMANCE CURVE:



Exploded View Of Air Motor Section

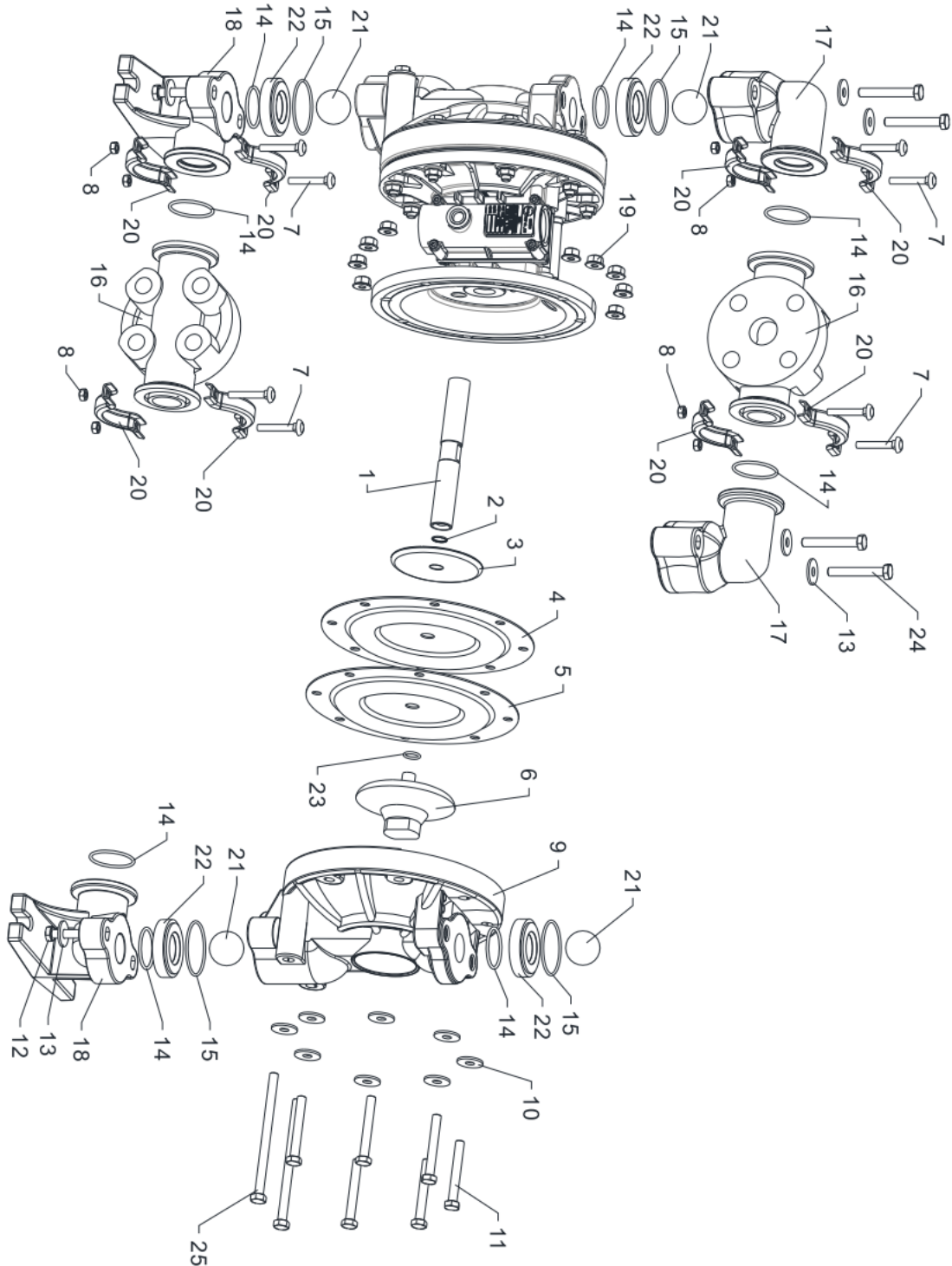


Parts List Of Air Motor Section

Position number	Description	Part number	Material	Quantity
102	Retaining Ring 32	NDA-PN120	Stainless Steel	1
103	Valve Cap	NDA-PJ69	Aluminum	2
104	O-Ring 28*1.8 (ID*Sec)	NDA-PY27	Nitrile	2
105	Y Type Seal 32*24*4.5	NDA-PW22	Nitrile	1
106	Piston	NDA-PK141	POM	1
107	Spool	NDA-PK142	POM	1
108	Y Type Seal 23*15*4.5	NDA-PW29	Nitrile	1
109	Guide Bush	NDA-PK143	POM	1
110	Valve Body	NDA-PI69	Aluminum	1
111	Guide Bush	NDA-PK144	POM	1
112	Screw M5*50	NDA-PX72	Steel	4
		NDA-PX73	Stainless Steel	4
113	Bigger Valve insert	NDA-PK168	Ceramic	1
114	Bigger Valve Plate	NDA-PK169	Ceramic	1
115	Gasket	NDA-PK170	Nitrile	1
116	Gasket	NDA-PK171	Nitrile	1
117	Adapter Plate	NDA-PK172	Aluminum	1
118	Gasket	NDA-PK173	Nitrile	1
119	Gasket	NDA-PK174	Nitrile	1
120	Valve Plate	NDA-PK175	Ceramic	1
121	Valve Insert	NDA-PK176	Ceramic	1
122	Nut M5	NDA-PX74	Steel	4
		NDA-PX75	Stainless Steel	4
123	Pump Body	NDA-PA70	Aluminum	1
124	O-Ring 22*2.5 (ID*Sec)	NDA-PY28	Nitrile	2
125	Guide Bush	NDA-PK177	POM	2
126	Y Type Seal 17*10*4	NDA-PW30	Nitrile	2
127	Spool	NDA-PK178	POM	1
128	Pilot Pin	NDA-PK179	Stainless Steel	2
129	Retainer Ring	NDA-PK180	POM	2
130	O-Ring 5*1.5 (ID*Sec)	NDA-PY16	Nitrile	2
131	Gasket	NDA-PF88	Nitrile	1
132	Bush	NDA-PG71	POM	2
133	Y Type Seal 27*19*4.5	NDA-PW31	Nitrile	2
134	Left Air Cap	NDA-PB117	Aluminum	1
135	O-Ring 6*1.2 (ID*Sec)	NDA-PY29	Nitrile	8
136	Screw M6*25	NDA-PX76	Steel	8
		NDA-PX77	Stainless Steel	8
137	Gasket	NDA-PF89	Nitrile	1
138	Right Air Cap	NDA-PB118	Aluminum	1
139	Muffler	93110	Assembly	1
140	O-Ring 32*2 (ID*Sec)	NDA-PY30	Nitrile	1

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Exploded View Of Fluid Section



Parts List Of Fluid Section

Part List Fluid Section 1" DP31 Non-Metallic Diaphragm Pump				
Position number	Description	Part number	Material	Quantity
1	Rod	NDA-PD77	Stainless Steel	1
2	O-Ring	Y328-14	PTFE	2
3	Plate-Air Side	93441-2	Nickel-platec Steel	2
4	Backer Diaphragm	92973-B	Santoprene (Green)	2
5	Diaphragm	90533-1	Neoprene	2
		90533-2	Nitrile	2
		90533-3	Viton	2
		93459-4	PTFE	2
		90533-9	Hytre	2
		90533-B	Santoprene (Yellow)	2
6	Diaphragm Nut	93239-1-M	Polypropylene	2
		93239-2-M	PVDF	2
7	Bolt (1/4" - 20 x 1-1/2")	Y84-403-T	Stainless Steel	8
8	Nut (1/4" - 20)	Y12-4-S	Stainless Steel	8
9	Fluid Cap	93235	Polypropylene	2
		93235-2-M	PVDF	2
10	Washer 8	NDA-PX27	Stainless Steel	16
11	Bolt M8x55	NDA-PX28	Stainless Steel	12
12	Bolt (3/8" - 16 x 1-1/2')	Y6-67-T	Stainless Steel	4
	Bolt M10x40	NDA-PX29	Stainless Steel	4
13	Washer 3/8"	93360-1	Stainless Steel	8
14	O-Ring (ID*Sec.34.7*4)	93281	PTFE(Capsule Type)	8
		93279	E.P.R	8
		Y327-220	Viton	8
15	O-Ring (ID*Sec.54.36*3.8)	93282	PTFE(Capsule Type)	4
		93280	E.P.R	4
		Y327-225	Viton	4
16	Swivel	93238	Polypropylene	2
		93238-2	PVDF	2
17	Manifold. Outlet (Top)	93236	Polypropylene	2
		93236-2	PVDF	2
18	Manifold, Foot (Bottom)	93237	Polypropylene	2
		93237-2	PVDF	2
19	Nut M8	NDA-PX12	Stainless Steel	16
20	Clamp	93283	Stainless Steel	8
21	Ball (31.75mm dia.)	93278-1	Neoprene	4
		93278-2	Nitrile	4
		93278-3	Viton	4
		93278-4	PTFE	4
		93278-8	Polyurethane	4
		93278-C	Hytre	4
		93278-A	Santoprene (Yellow)	4
		92408	Stainless Steel ANSI316	4
22	Seat	94707-1	Polypropylene	4
		94707-2	PVDF	
		96151	Stainless Steel	4
23	O-Ring	Y328-112	PTFE	2
24	Bolt (3/8" - 16 x 2-1/4")	Y6-610-T	Stainless Steel	4
	Bolt M10x55	NDA-PX30	Stainless Steel	4
25	Bolt M8x115	NDA-PX78	Stainless Steel	4
26	1" Plastic Plug	NDA-PU09	Plastic	2
27	1/4" Plastic Plug	NDA-PU11	Plastic	1

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