



SALES & ENGINEERING DATA

1" METALLIC DIAPHRAGM PUMP (DP31S) (With Side Ports)

SPECIFICATIONS:

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

Fluid Outlet: Rp 1 (1-11 BSP,parallel)
1-11 1/2 NPT

Fluid Inlet: Rp 1 (1-11 BSP,parallel)
1-11 1/2 NPT

Maximum Flow Rate: 35 GPM(133 LPM)

Max. Operating Pressure: 120psi(8.3 bar)

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

Maximum Dry Suction Lift: 20feet(6.1m)

Weight: aluminum-19 lbs(8.6kg);
stainless steel-36 lbs(16.3kg);
cast iron-31 lbs(14.1kg);

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



MODEL DESCRIPTION & ORDERING:

DP31S	-	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

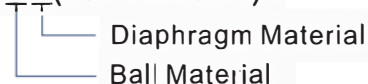
Pump Size	25-1"			
Center Body Mat.	A-Aluminum		C-Cast Iron	
Fluid Caps Manifold Mat.	A - Aluminum		S -Stainless Steel	C-Cast Iron
Seat Material	1 - Aluminum	2 - 316 Stainless Steel	3-Polypropylene	4-PVDF(Kynar)
	5-Carbon Steel	8-Hard 400 Stainless Steel		
Ball Check Material	1-Neoprene	2-Nitrile	3-Viton	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-Acetal	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:

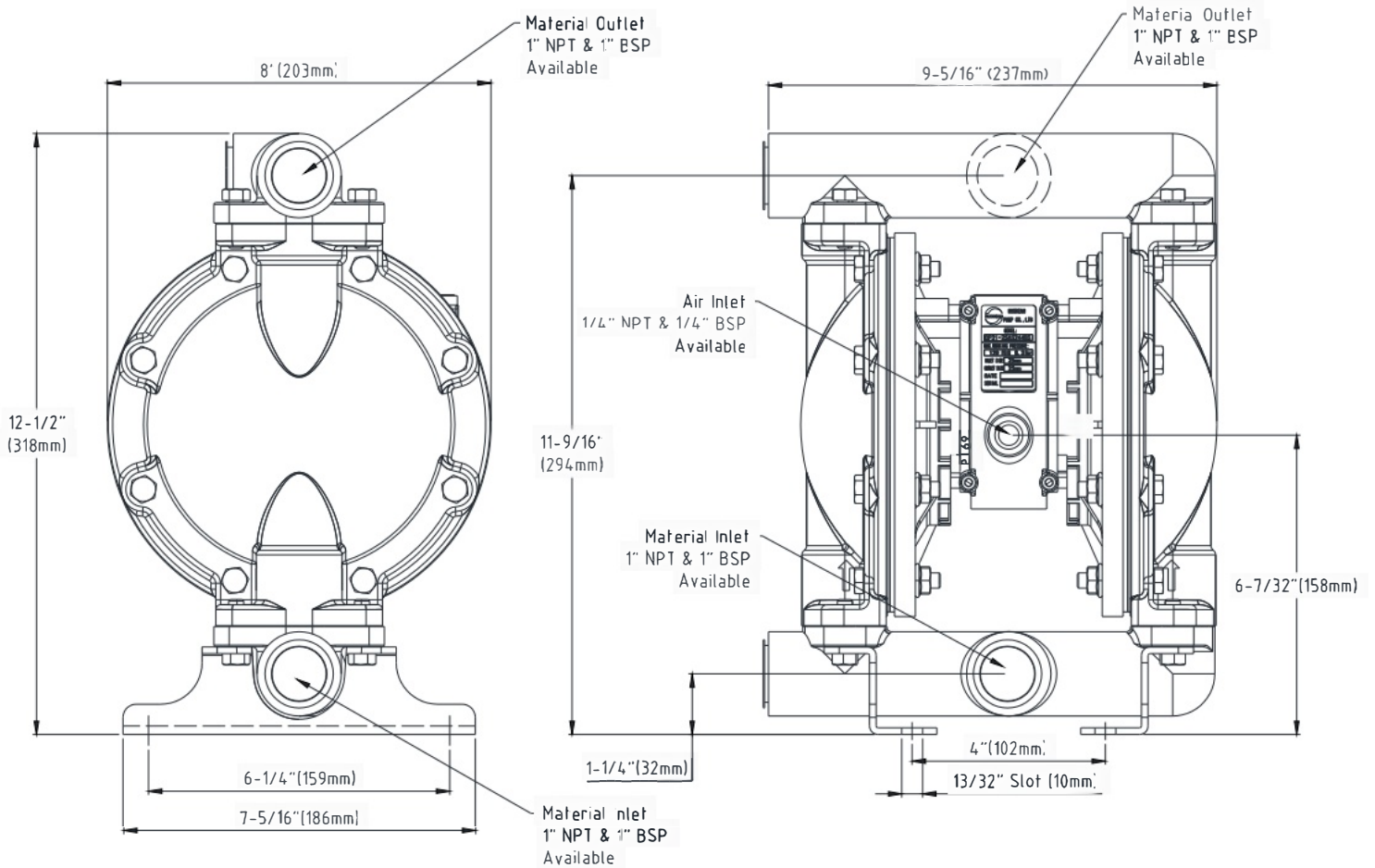
DP31-Air25(air section)

DP31-Flu25 - XX(fluid section)

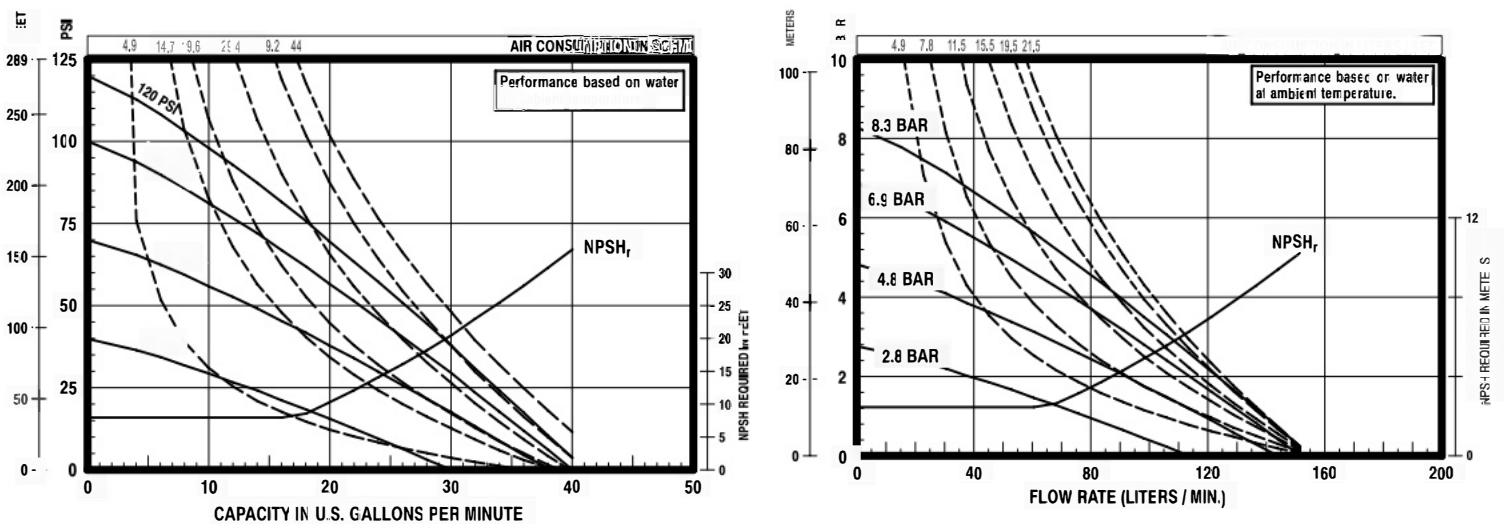


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DIMENSIONS:

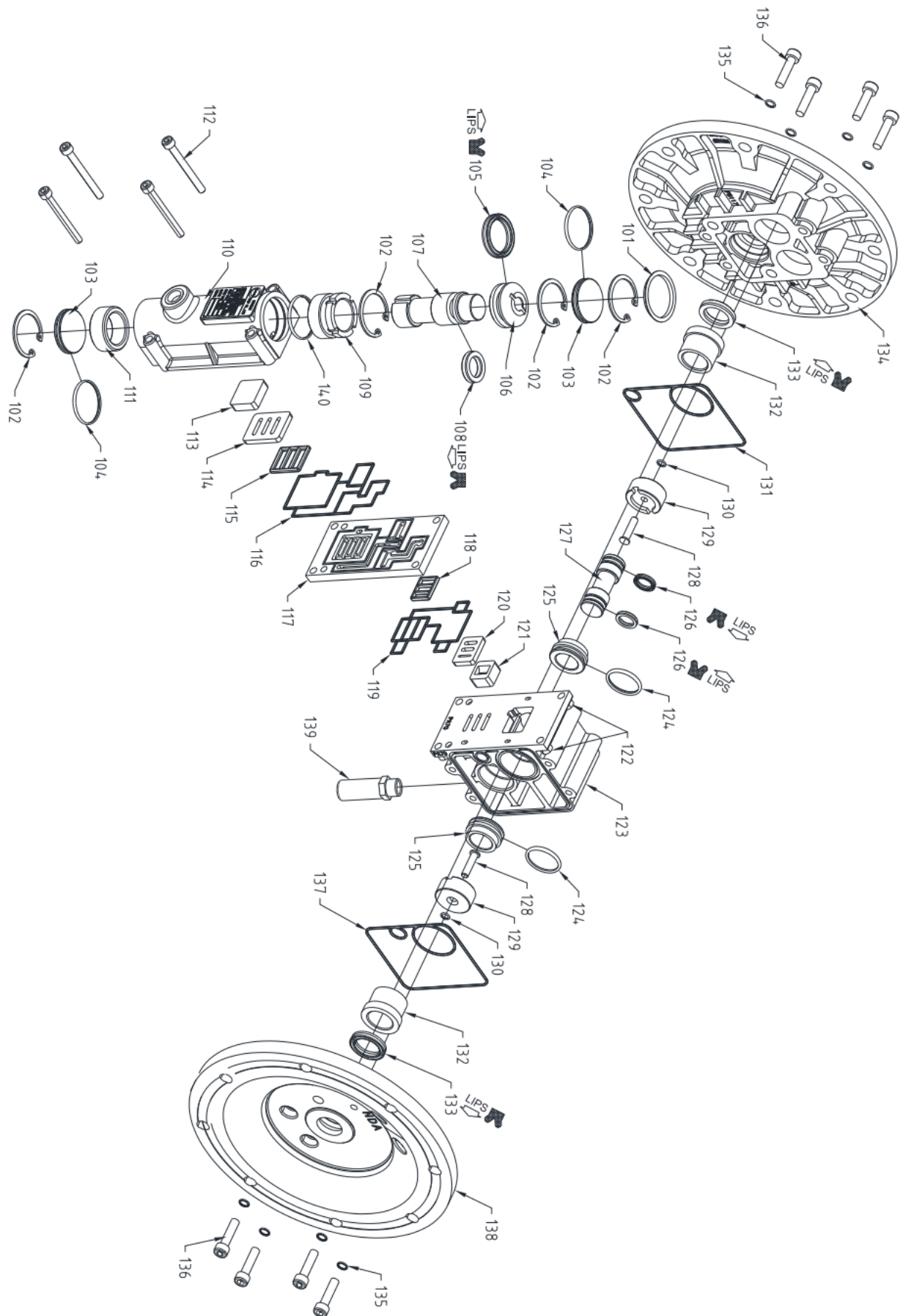


PERFORMANCE CURVE:



1" METALLIC DIAPHRAGM PUMP (DP31S)

Exploded View Of Air Motor Section



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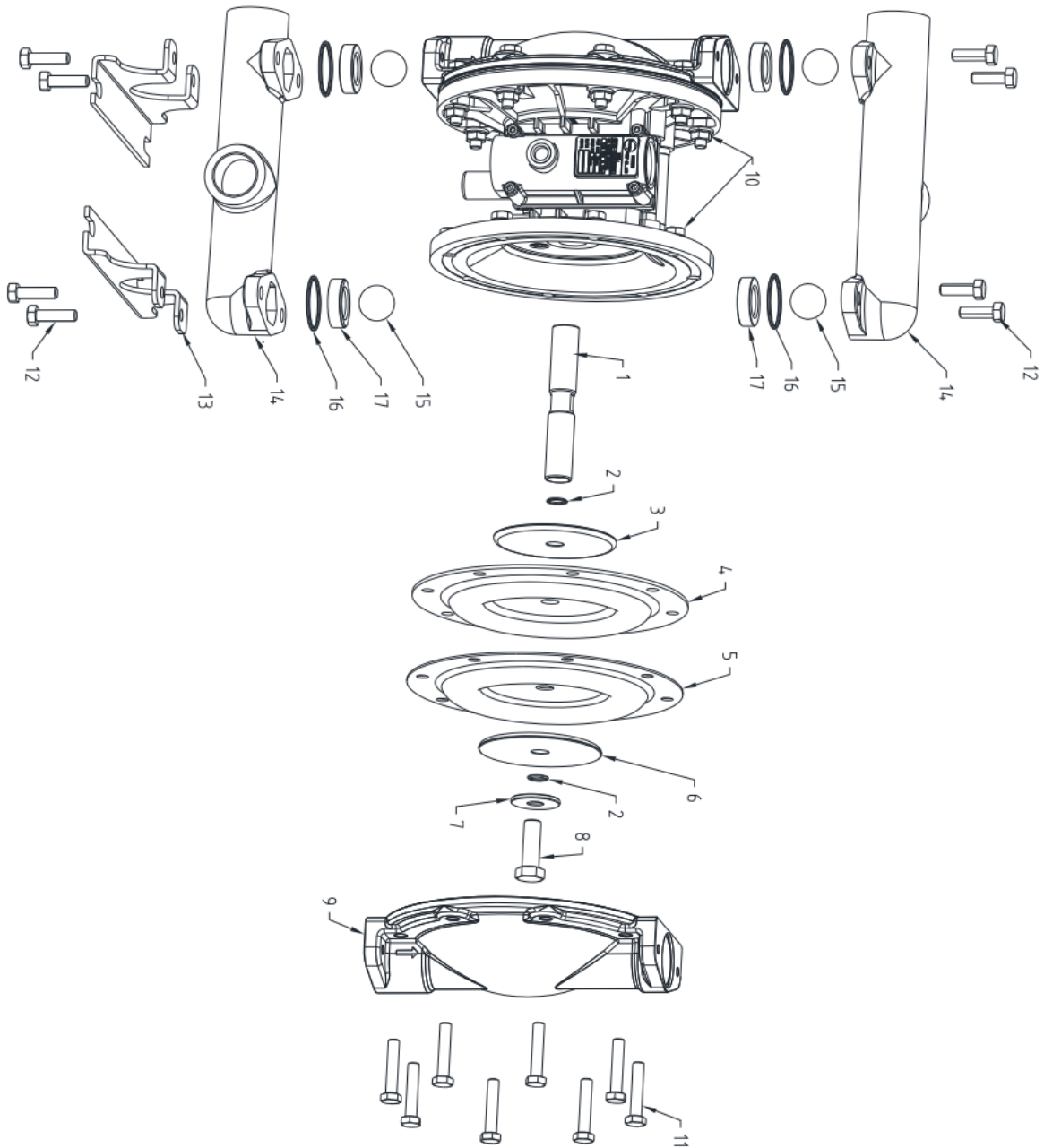
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Parts List Of Air Motor Section

Part List Air Motor Section 1" DP31S Metallic Diaphragm Pump (With Side Ports)				
Position number	Description	Part number	Material	Quantity
101	Cap	NDA-PU12	Plastic	1
102	Retaining Ring 32	NDA-PN120	Stainless Steel	4
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

1" METALLIC DIAPHRAGM PUMP (DP31S)

Parts List Of Fluid Section



1" METALLIC DIAPHRAGM PUMP (DP31S)

Parts List Of Fluid Section

Part List Fluid Section 1" DP31S Metallic Diaphragm Pump(With Side Ports)				
Position number	Description	Part number	Material	Quantity
1	Rod	NDA-PD77	SS304	1
2	O-Ring	Y328-14	PTFE	4
3	Washer-Air Side	93441-2	Electrophoretic 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	Hytrel	2
		90533-B	Santoprene(Yellow)	2
6	Washer-Fluid Side	93441-1	Stainless Steel	2
7	Washer	NDA-PN70	Stainless Steel	2
8	Bolt M12x1.25x35	NDA-PX20	Stainless Steel	2
9	Fluid Cap	94945	Aluminum	2
		97615	Stainless Steel ANSI 316	2
		94277	Cast Iron	2
10	Nut M8	NDA-PX11	Steel	16
		NDA-PX12	Stainless Steel	16
11	Bolt M8x40	NDA-PX23	Steel	16
		NDA-PX24	Stainless Steel	16
12	Bolt M8x25	NDA-PX25	Steel	8
		NDA-PX26	Stainless Steel	8
	Bolt (5/16" -18 x1")	Y6-55-T	Stainless Steel	8
13	Leg	NDA-PN119	Steel	2
		NDA-PN118	Stainless Steel	2
14	Manifold	PC147 (BSP)	Aluminum	2
		PC147-1 (NPT)	Aluminum	2
		PC148 (BSP)	Stainless Steel ANSI 316	2
		PC148-1 (NFT)	Stainless Steel ANSI 316	2
15	Ball (25.4mm dia.)	90532-1	Neoprene	4
		90532-2	Nitrile	4
		90532-3	Viton	4
		90532-4	PTFE	4
		90532-8	Polyurethane	4
		90532-C	Hytrel	4
		90948	Stainless Steel ANSI 316	4
		90532-A	Santoprene(Yellow)	4
16	O-Ring 34.6*2.7 (ID*Sec)	Y325-126	Nitrile	4
		Y327-126	Viton	4
		Y328-126	PTFE	4
		90534	E.P.R.	4
17	Seat	92008-1	Aluminum	4
		90428-1	Stainless Steel ANSI 316	4
		92926	Polyurethane	4
		95675-1	Carbon Steel	4
18	1" Plastic Plug	NDA-PU01	Plastic	2
19	1/4" Plastic Plug	NDA-PU11	Plastic	1

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