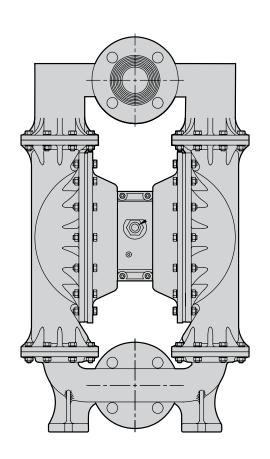


PWR-FLOT

NPF50 2" METALLIC PUMP (BOLTED) PWR-FLO™ AIR DISTRIBUTION SYSTEM



AIR-OPERATED O DOUBLE DIAPHRAGM PUMPS

ALUMINUM Models

316 S.S. Models





CAUTIONS - READ FIRST



CAUTION: Do not apply compressed air to the exhaust port - pump will not function.



CAUTION: Do not over-lubricate air supply – excess lubrication will reduce pump performance. Pump is pre-lubed.



TEMPERATURE LIMITS:

Neoprene -17.7°C to 93.3°C 0°F to 200°F Buna-N -12.2°C to 82.2°C 10°F to 180°F EPDM -15.1°C to 137.8°C -60°F to 280°F NOTE: Not all materials are available for all models. Refer to Section 2 for material options for your pump.



CAUTION: Check temperature limits for all wetted components. Example: Viton® has a maximum limit of 176.7°C (350°F) but polypropylene has a maximum limit of only 79°C (175°F).



CAUTION: Maximum temperature limit are based upon mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperatures.



WARNING: Prevention of static parking – if static sparking occurs, fire or explosion could result. Pump, valves, and containers must be grounded to a proper grounding point when handling flammable fluids and whenever discharge of static electricity is a hazard.



CAUTION: Do not exceed 8.6 bar (125psig) air supply pressure.



CAUTION: The process fluid and cleaning fluids must be chemically compatible with all wetted pump components.



CAUTION: Do not exceed 82°C (180°F) air inlet temperature.



CAUTION: Pumps should be thoroughly flushed before installing into process lines.



CAUTION: Always wear safety glasses when operating pump. If diaphragm rupture occurs, material being pumped may be forced out air exhaust.



CAUTION: Before any maintenance or repair is attempted, the compressed air line to the pump should be disconnected and all air pressure allowed to bleed from pump. Disconnect all intake, discharge and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container.



CAUTION: Blow out air line for 10 to 20 seconds before attaching to pump to make sure all pipeline debris is clear. Use an in-line air filter. A 5µ (micron) air filter is recommended.

NOTE: When installing PTFE diaphragms, it is important to tighten outer pistons simultaneously (turning in opposite directions) to ensure a tight fit. (See torque specifications.)

NOTE: Before starting disassembly, mark a line from each liquid chamber to its corresponding air chamber. This line will assist in proper alignment during reassembly.



CAUTION: Tighten all hardware prior to installation.

Pump Designation System



XXX XX / XXXX / XX / XX / XX / XXX / X / X / X

				<u>,</u> /		<u> </u>	W / W /	Λ	^^ /	V \	Λ/,	Λ			
_		_	1 2		3 4 5 6		7 8	9	10	11 	12 	13 		_	
1	Air Distribution System	2	Liquid Port Size	3	Wetted Parts	7,8	Diaphragms & Valve Balls	9	Valve Seats	11	Fittings	12	Connections	13	ATEX
N	Nomad	07	07mm/.25"	A	Aluminum	BN	Buna - N/ Nitrile	А	Aluminum	N	NPT	(Clamped		
T	Trans-Flo	15	15mm/.5"	W	Ductile	ND	Nordel/EPDM	S	Stainless Steel	В	BSP	В	Bolted		
TG	Gold	25	25mm/1"	S	Stainless Steel	NE	Neoprene	BN	Buna - N/Nitrile	TC	Tri-Clamp				
PF	Pwr-Flo	40	40mm/1.5"	Р	Polypropylene	TF	PTFE (with Neoprene back-up)	NE	Neoprene	FL	Flanged				
DF	Dura-Flo	50	50mm/2"	4	Air Chambers	VT	Viton/FKM	ND	Nordel/EPDM						
		80	80mm/3"	A	Aluminum	FG	Hytrel®	VT	Viton						
		100	100mm/4"	W	Ductile	SN	Santoprene®	SP	Santoprene						
				S	Stainless Steel	SNF	Santoprene® - UFI	FG	Hytrel	1					
				W	Mild Steel	TFF	PTFE - UFI	Р	Polypropylene						
				Р	Polypropylene	TGN	Garlock® - NEO BACKED	K	Kynar						
				5	Center Block	TGE	Garlock® - EPDM BACKED	PU	Polyurethane						
				А	Aluminum	TGV	Garlock® - Viton BACKED	MTF	Mild Steel						
				S	Stainless Steel	PU	Polyurethane	10	0-Ring						
				Р	Polypropylene	FGF	Hytrel UFI	BN	Buna - N/Nitrile						
				6	Air Valve	PUF	Polyurethane UFI	NE	Neoprene						
				В	Brass			ND	Nordel/EPDM						
				Р	Polypropylene			VT	Viton						
				A	Aluminum			TF	PTFE						
				S	Stainless Steel			PU	Polyurethane						
						l		SN	Santoprene						
								PTV	Viton Encap.						

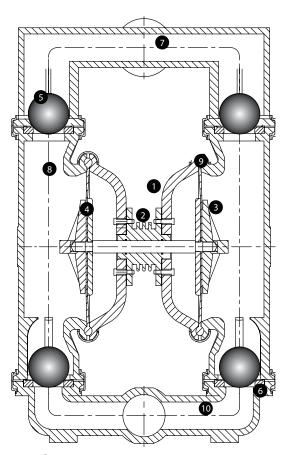
NTG 50 / AAAB / TF / TF / ATF / N / C / X

ſ			1 2	<i>'</i>	3 4 5 6	_ ,	7	8	9	10		12	13		7	
1	Air Distribution System	2	Liquid Port Size	3	Wetted Parts	7,8	Diaphragm	s & Valve Balls	9	Valve Seats	11	Fittings	12	Connections	13	ATEX
N	Nomad	50	50mm/2"	А	Aluminum	TF	PTFE (with Bur	na back-up)	А	Aluminum	N	NPT	C	Clamped		
I	Trans-Flo			4	Air Chambers				10	0-Ring						
TG	Gold			A	Aluminum				TF	PTFE		,				
PF	Pwr-Flo			5	Center Block			·								
DF	Dura-Flo			A	Aluminum											
		•		6	Air Valve											
				В	Brass											



How It Works - Pump

The NOMAD diaphragm pump is an air-operated, positive displacement, self-priming pump. These drawings show flow pattern through the pump upon its initial stroke. It is assumed the pump has no fluid in it prior to its initial stroke.



1. Air Chamber

The air chamber is the chamber that houses the air which powers the diaphragms.

2. Air Distribution System

The air distribution system is the heart of the pump. The air distribution system is the mechanism that shifts the pump in order to create suction and discharge strokes.

3. Lock Nut (Outer Diaphragm Piston)

The outer diaphragm pistons provide a means to connect the diaphragms to the reciprocating common shaft and to seal the liquid side from the air side of the diaphragm.

4. Holding plate (Inner Diaphragm Piston)

The inner piston is located on the air side of the pump and does not come into contact with the process fluid.

5. Check Valve Ball

NOMAD air-operated pumps use suction and discharge check valves to produce directional flow of process fluid in the liquid chamber. The check valve balls seal and release on the check valve seats allowing for discharge and suction of process fluid to occur.

6. Check Valve Seat

The removable seats provide the ball valves a site to check.

7. Discharge Manifold

Process fluid exits the pump from the discharge port located on the discharge manifold at the top of the pump.

8. Liquid Chamber

The liquid chamber is filled with the process fluid during the suction stroke and is emptied during the discharge stroke. It is separated from the compressed air by the diaphragms.

9. Diaphragm

The diaphragm membrane provides for separation of the process fluid and the compressed air power source. To perform adequately, diaphragms should be of sufficient thickness and of appropriate material to prevent degradation or permeation in specific process fluid applications. TABLA offers a variety of diaphragm materials for your specific application requirements.

10. Inlet Manifold

Process fluid enters the pump from the intake port located on the inlet manifold at the bottom of the pump.

Suggested Operation & Maintenance



Troubleshooting

Pump will not run or runs slowly.

- 1. Ensure that the air inlet pressure is at least 0.4 Bar (5 psig) above start up pressure and that the differential pressure (the difference between air inlet and liquid discharge pressures) is not less than 0.7 Bar (10 psig).
- 2. Check air inlet filter for debris
- 3. Check for extreme air leakage (blow by) which would indicate worn seals/bores in the air valve.
- 4. Disassemble pump and check for obstructions in the air passageway.
- 5. Check for sticking ball check valves. If material being pumped is not compatible with pump, elastomer, swelling may occur. Replace ball check valves and seals with proper elastomers. Also, as the check valve balls wear out, they become smaller and can become stuck in the seats. In this case, replace balls and seats.
- 6. Check for broken inner piston which will cause the air valve spool to be unable to shift.
- 7. Remove plug from pilot spool exhaust.

Pump runs but little or no product flows.

- Check for pump cavitation; slow pump speed down to allow thick material to flow into liquid chambers.
- 2. Verify that vacuum required to lift is not greater than the vapor pressure of the material being pumped (cavitation).
- 3. Check for sticking ball valves. If material being pumped is not compatible with pump elastomers, swelling may occur. Replace ball check valves and seats with proper elastomers. Also, as the check valve balls wear out, they become smaller and can become stuck in the seats. In this case, replace balls and seats.

Pump air valve freezes.

 Check for excessive moisture in compressed air. Either install a dryer or hot air generator for compressed air. Alternatively, a coalescing filter may be used to remove the water from the compressed air in some applications.

Air bubbles in pump discharge.

- 1. Check for ruptured diaphragm.
- 2. Check tightness of outer pistons.
- 3. Check tightness of fasteners and integrity of o-rings and seals, especially at intake manifold.
- 4. Ensure pipe connections are airtight

Product comes out air exhaust.

- 1. Check for diaphragm rupture.
- 2. Check tightness of outer pistons to shaft.



Suggested Installation

INSTALLATION:

- Suction pipe equal to/greater than pump diameter (same for discharge)
- Tighten all fasteners before use
- Suction connection should be non-collapsible

AIR SUPPLY:

- Air line size must be large enough to create desired volume (see performance curve section)
- Do not exceed 8.6 BAR (125 PSIG)
- For best results, use 5 micron air filter
- Use lubricator with 5 wt. oil

PIPING:

- Remove as many turns/elbows as possible
- Piping should be supported
- Flexible hose will avoid stress on pump fitting
- Gate Valve should be used in applications involving flooded suction
- In positive suction head conditions, limit inlet pressure to 0.5 - 0.7 BAR (7 - 10 PSI).
 Premature diaphragm failure will take place above the parameters.

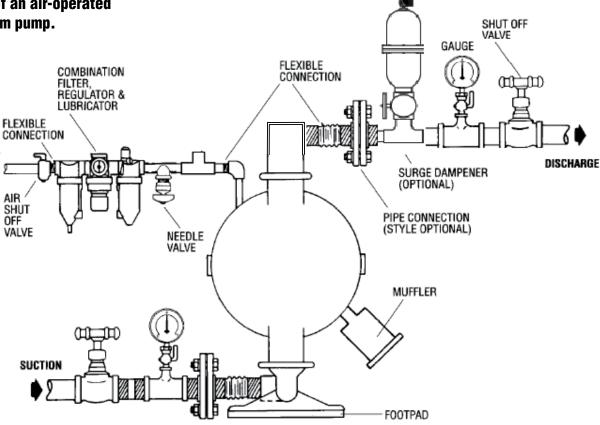
ALL NOMAD PUMPS ARE CAPABLE OF PASSING SOLIDS. A STRAINER SHOULD BE USED ON THE PUMP INTAKE TO ENSURE THAT THE PUMP'S RATED SOLIDS CAPACITY IS NOT EXCEEDED.

CAUTION: DO NOT EXCEED 8.6 BAR (125 PSIG) AIR SUPPLY PRESSURE.

Suggested Installation







NOTE: In the event of a power failure, the shut off valve should be closed, if the restarting of the pump is not desirable once power is regained.

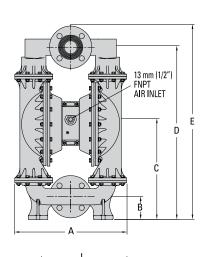
AIR OPERATED PUMPS: To stop the pump from operating in an emergency situation, simply shut off valve (user supplied) installed

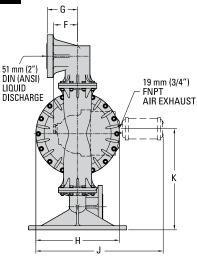
in the air supply line. A properly functioning valve will stop the air supply to the pump, therefore stopping output. The shut off valve should be located far enough away from the pumping equipment such that it can be reached safely in an emergency situation.

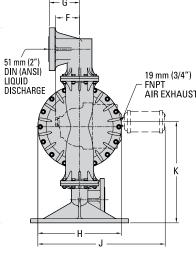


Dimensional Drawings

NPF 50 BOLTED Aluminum

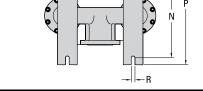




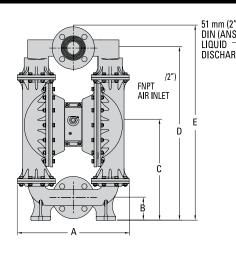


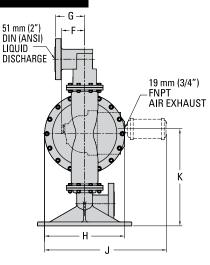
DIMENSIONS

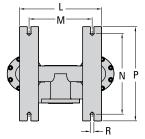
ITEM	METRIC (mm)	STANDARD (inch)
Α	439	173
B8	93	.5
С	396	156
D	676	266
E	760	299
F9	43	.7
G	117	4.6
Н	325	128
J	493	194
K	396	156
L	330	130
М	254	100
N	325	128
Р	379	149
R1	50	.6



NPF 50 BOLTED Stainless Steel







DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
Α	434	17.1
B8	93	.5
С	389	153
D	678	267
Е	760	299
F9	43	.7
G	117	4.6
Н	325	128
J	493	19 <i>4</i>
K	391	15 <i>A</i>
L	330	130
М	254	100
N	325	128
Р	379	149
R1	50	.6

Performance



NPF50 RUBBER TPE-FITTED

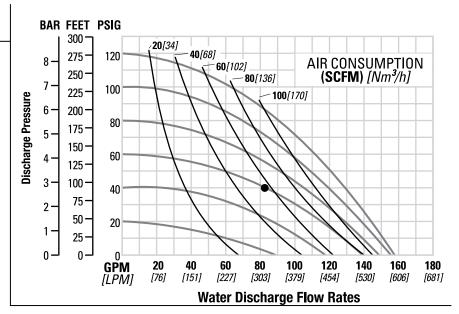
Height	759 mm (29.9")
Width	439 mm (17.3")
Depth	325 mm (12.8")
Ship WeightAlu	uminum 34 kg (75 lb)
316 Stainless	Steel 100 kg (220 lb)

Air Inlet	13 mm (1/2")
Inlet	51 mm (2")
Outlet	51 mm (2")
Suction Lift	6.9 m Dry (22.7')
	8.6 m Wet (28.4')
Disp. Per Stroke	2.8 L (0.73 gal) ¹
Max. Flow Rate	597 lpm (158 gpm)
Max. Size Solids	6.4 mm (1/4")

Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2.1 bar (30 psig) head pressure.

Example: To pump 310 lpm (82 gpm) against a discharge head of 2.7 bar (40 psig) requires 4.1 bar (60 psig) and 92 Nm³/h (54 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump's performance curve.

NPF50 PTFE-FITTED

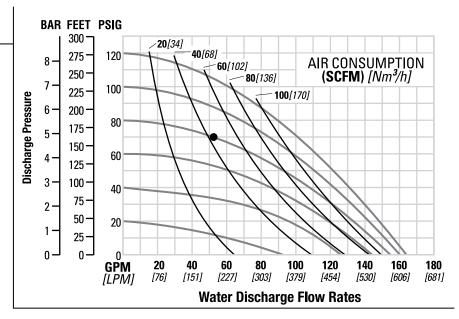
Height	759 mm (29.9")
Width	439 mm (17.3")
Depth	325 mm (12.8")
Ship Weight	Aluminum 34 kg (75 lb)
316 Stainle	ss Steel 100 kg (220 lb)
Air Inlet	13 mm (1/2")

Inlet	51 mm (2")
Outlet	
Suction Lift	5.9 m Dry (19.5')
	8.6 m Wet (28.4')
Disp. Per Stroke	2.8 L (0.74 gal) ¹
Max. Flow Rate	621 lpm (164 gpm)
Max. Size Solids	6.4 mm (1/4")

¹Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2.1 bar (30 psig) head pressure.

Example: To pump 197 lpm (52 gpm) against a discharge head of 4.8 bar (70 psig) requires 5.5 bar (80 psig) and 75 Nm³/h (44 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump's performance curve.



Parts Listing

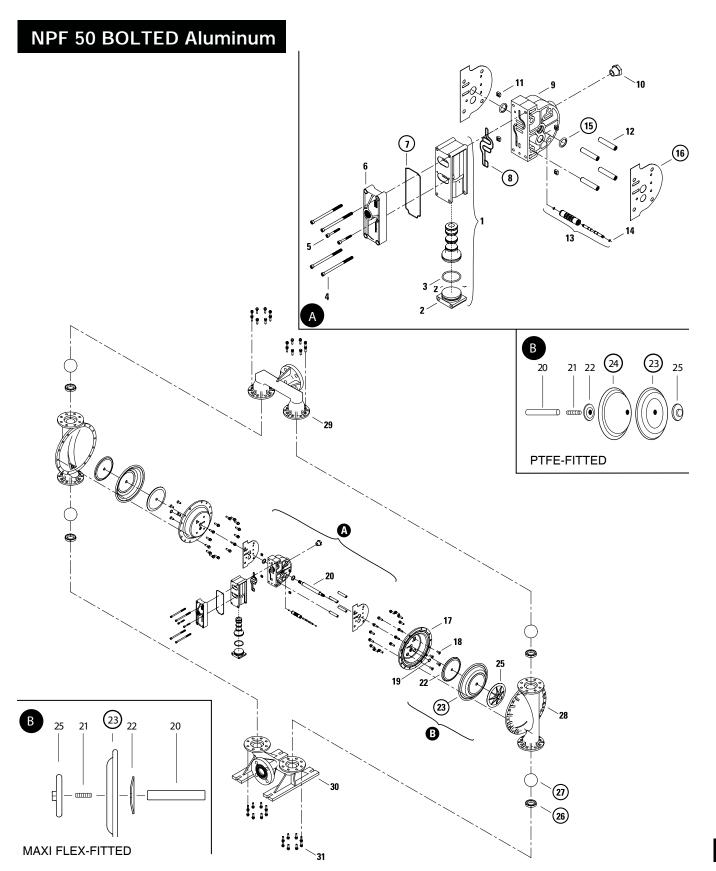
NPF 50 BOLTED Aluminum

No.	Part Description	Qty.	Rubber-Fitted	PTFE-Fitted
1	Air Valve Assembly	1	*N04-2000-20-700	*N04-2000-20-700
2	O-Ring (-225), Endcap (1.859 x .139)	1	N04-2390-52-700	N04-2390-52-700
3	End Cap	1	N04-2330-20-700	N04-2330-20-700
4	Screw, HCH, Air Valve (1/4"-20x 4-1/2")	4	N01-6000-03	N01-6000-03
5	Screw, SCH, Air Valve (10-16 x 1 3/4")	2	N04-6351-03	N04-6351-03
6	Muffler Plate	1	N04-3180-20-700	N04-3180-20-700
7	Gasket, Muffler Plate	1	N04-3500-52-700	N04-3500-52-700
8	Gasket, Air Valve	1	N04-2600-52-700	N04-2600-52-700
9	Center Block Assembly	1	N04-3110-20	N04-3110-20
10	Bushing, Reducer	1	N04-6950-20-700	N04-6950-20-700
11	Nut, Square (1/4" 20)	4	N00-6505-03	N00-6505-03
12	Sleeve, Threaded	4	N04-7710-08	N04-7710-08
13	Pilot Sleeve Assembly	1	N04-3880-99	N04-3880-99
14	Pilot Spool Retaining O-Ring	2	N04-2650-49-700	N04-2650-49-700
15	Shaft Seal	2	N08-3210-55-225	N08-3210-55-225
16	Gasket, Center Block	2	N04-3526-52	N04-3526-52
17	Air Chamber, Pro-Flo®	2	N08-3651-01	N08-3651-01
18	Screw, HSFHS (3/8" -16 x 1")	8	N71-6250-03	N71-6250-03
19	Retaining Ring	2	N04-3890-03	N04-3890-03
20	Shaft	1	N08-3812-03	N08-3840-09
	Shaft-Maxi-Flex	1	N/A	N08-3841-03
21	Shaft Stud	2	N/A	N08-6152-08
	Shaft Stud-Maxi-Flex	2	N/A	N08-6150-01
22	Inner Piston	2	N08-3700-01	N08-3750-01
	Inner Piston-Maxi-Flex	2	N/A	N08-3761-01
23	Diaphragm	2	*N08-1010-51	*N08-1010-55-42
24	Diaphragm, Back-Up	2	N/A	*N08-1060-51
25	Outer Piston	2	N08-4550-01	N08-4600-01
	Outer Piston-Maxi-Flex	2	N/A	N04-4552-01
26	Seat, Valve	4	*N08-1120-51	*N08-1121-01
27	Ball, Valve	4	*N08-1080-51	*N08-1080-55
	Valve Seat, O-Ring (Not Shown)	4	*N/A	*N08-1200-55
28	Liquid Chamber	2	N08-5000-01-42	N08-5000-01-42
29	Discharge Manifold	1	N08-5020-01-42	N08-5020-01-42
30	Inlet Manifold	1	N08-5080-01-42	N08-5080-01-42
31	Screw, HHCS (3/8"-16x 1-1/4")	60	N08-6185-08	N08-6185-08
	Muffler (Not Shown)	1	N08-3510-99	N08-3510-99

^{*}Consult Elastomer Options

Exploded View







Parts Listing

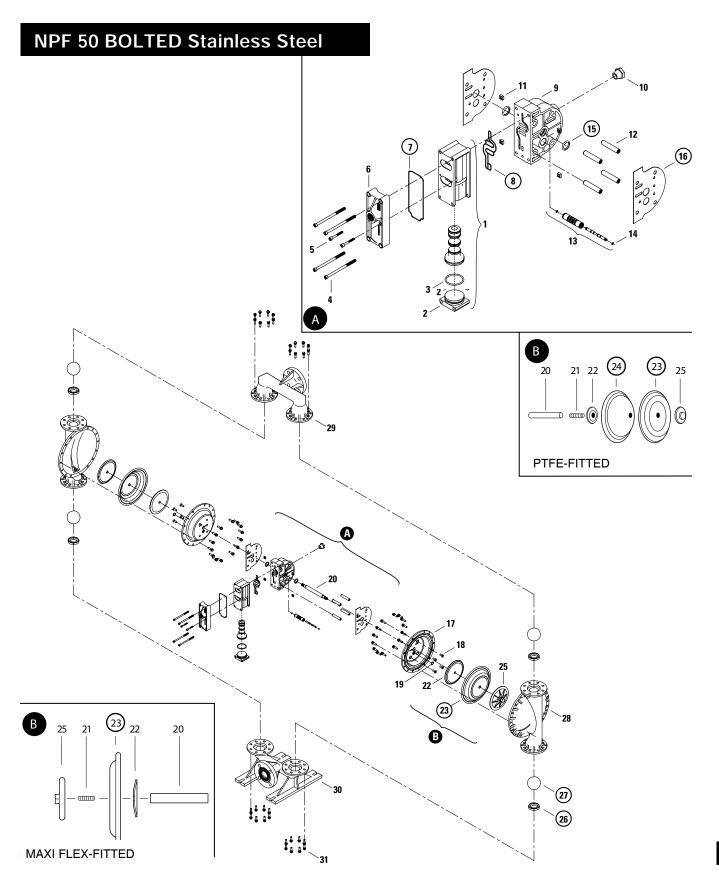
NPF 50 BOLTED Stainless Steel

Air Valve Assembly	No	Part Pagarintian	Otv	Bubbar Fitted	DTEE Eitted
2 O-Ring (-225), Endcap (1.859 x .139) 3 End Cap 1 N04-2390-52-700 N04-2390-52-700 3 End Cap 1 N04-2390-52-700 N04-2390-52-700 4 Screw, HCH, Air Valve (1/4"-£0x 4-1/2") 4 N01-6000-03 N01-6000-03 5 Screw, SCH, Air Valve (10-16 x 1 3/4") 2 N04-6351-03 N04-6351-03 6 Muffler Plate 1 N04-3180-20-700 N04-3180-20-700 7 Gasket, Muffler Plate 1 N04-3180-22-700 N04-3180-20-700 8 Gasket, Air Valve 1 N04-3500-52-700 N04-3500-52-700 8 Gasket, Air Valve 1 N04-3110-20 N04-3110-20 9 Center Block Assembly 1 N04-3110-20 N04-3110-20 10 Bushing, Reducer 1 N04-6950-20-700 N04-6950-20-700 11 Nut, Square (1/4" 20) 4 N00-6505-03 N00-6505-03 12 Sleeve, Threaded 4 N04-7710-08 N04-7710-08 13 Pilot Sleeve Assembly 1 N04-3880-99 N04-3880-99 14 Pilot Spool Retaining O-Ring 2 N04-2650-49-700 N04-650-49-700 15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N04-3526-52 N08-3210-55-225 16 Gasket, Center Block 2 N04-3526-52 N08-3210-55-225 17 Air Chamber, Pro-Flo® 2 N08-3681-01 N08-3681-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-08 19 Retaining Ring 2 N04-3890-03 N71-6250-08 19 Retaining Ring 2 N04-3890-03 N04-3890-03 19 Shaft 1 N08-3812-03 N08-3840-09 10 Shaft 1 N08-3700-01 N08-3750-01 10 Inner Piston 2 N08-3700-01 N08-3750-10 11 Inner Piston 2 N08-3700-01 N08-3750-01 12 Shaft Stud 2 N/A N08-6150-08 14 N08-3761-01 15 Outer Piston 10 Diaphragm 2 N04-3890-03 N08-3800-03 17 N08-3750-01 N08-3750-01 18 Couter Piston 2 N08-3700-01 N08-3750-01 18 Couter Piston 2 N08-3700-01 N08-3750-01 19 Retaining Ring 2 N04-3800-03 17 N08-1010-55-42 28 Diaphragm 29 N04-3800-03 17 N08-1010-55-42 29 Diaphragm 20 N08-4500-03 17 N08-1010-55-42 20 Diaphragm 20 N08-4500-03 21 N08-1010-55-42 22 N08-300-03-42 23 Diaphragm 3 N08-4600-03 24 N08-5000-03-42 25 N08-5000-03-42 26 N08-5000-03-42 27 N08-5000-03-42 28 Diaphragm 20 N08-5000-03-42 29 Discharge Manifold 1 N08-5080-03-42 30 Inlet Manifold 1 N08-5080-03-4	No.	Part Description	Qty.	Rubber-Fitted	PTFE-Fitted
3 End Cap 1 N04-2330-20-700 N04-2330-20-700 4 Screw, HCH, Air Valve (1/4"-20x 4-1/2") 4 N01-6000-03 N01-6000-03 5 Screw, SCH, Air Valve (10-16 x 1 3/4") 2 N04-6351-03 N04-6351-03 6 Muffler Plate 1 N04-3180-20-700 N04-3180-20-700 7 Gasket, Muffler Plate 1 N04-3500-52-700 N04-3500-52-700 8 Gasket, Air Valve 1 N04-2600-52-700 N04-2600-52-700 9 Center Block Assembly 1 N04-2600-52-700 N04-2600-52-700 10 Bushing, Reducer 1 N04-6950-20-700 N04-6950-20-700 11 Nut, Square (1/4" 20) 4 N00-6505-03 N00-6505-03 12 Sleeve, Threaded 4 N04-7710-08 N04-7710-08 13 Pilot Sleeve Assembly 1 N04-3800-99 N04-3880-99 14 Pilot Spool Retaining O-Ring 2 N04-2650-49-700 N04-2650-49-700 15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N08-3681-01 N08-3681-01 N08-3681-01		<u> </u>			
4 Screw, HCH, Air Valve (1/4"-20x 4-1/2") 4 N01-6000-03 N01-6000-03 5 Screw, SCH, Air Valve (10-16 x 1 3/4") 2 N04-6351-03 N04-6351-03 6 Muffler Plate 1 N04-3180-20-700 N04-3180-20-700 7 Gasket, Muffler Plate 1 1 N04-3180-52-700 N04-3500-52-700 9 Center Block Assembly 1 N04-3110-20 N04-3500-52-700 9 Center Block Assembly 1 N04-3110-20 N04-3110-20 10 Bushing, Reducer 1 N04-6805-20-700 N04-6950-20-700 11 Nut, Square (1/4"-20) 4 N00-6805-03 N00-6805-03 12 Sleeve, Threaded 4 N04-7710-08 N04-7710-08 13 Pilot Sleeve Assembly 1 N04-3880-99 N04-3880-99 14 Pilot Spool Retaining O-Ring 2 N04-2650-49-700 N04-2650-49-700 15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N04-3526-52 N04-3526-52 17 Air Chamber, Pro-Flo® 2 N04-3890-03 N71-6250-08 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Ring 2 N04-3890-03 N71-6250-08 19 Shaft Stud 3 N04-3890-03 N04-3890-03 20 Shaft 1 N08-3812-03 N08-3840-09 21 Shaft Stud 2 N/A N08-6150-08 22 N/A N08-6150-08 23 Inner Piston 24 N/A N08-3750-01 25 Inner Piston-Maxi-Flex 25 N/A N08-6150-08 26 Seat, Valve 4 N08-1100-51 'N08-1100-55-42 27 N/A N08-350-03 28 Seat, Valve 4 'N08-1100-51 'N08-1100-55-42 29 Diaphragm, Back-Up 20 Diaphragm, Back-Up 21 Ball, Valve 4 'N08-1100-51 'N08-1101-55-42 24 Diaphragm, Back-Up 25 Outer Piston-Maxi-Flex 26 N08-3500-03-42 27 N08-5000-03-42 28 Liquid Chamber 29 Dischapped Marifold 1 N08-5080-03-42 20 Dischapped Marifold 1 N08-5080-03-42 20 Dischapped Marifold 1 N08-5080-03-42 20 Dischapped Marifold 1 N08-5080-03-42 21 Dischapped Marifold 1 N08-5080-03-42 20 Dischapped Marifold 1 N08-5080-03-42 21 Dischapped Marifold 1 N08-5080-03-42 22 Dischapped Marifold 1 N08-5080-03-42 23 Dischapped Marifold 1 N08-5080-03-42 24 Dischapped Marifold 1 N08-5080-03-42 25 N08-6185-08		<u> </u>			
5 Screw, SCH, Air Valve (10-16 x 1 3/4") 2 N04-6351-03 N04-6351-03 6 Muffler Plate 1 N04-3180-20-700 N04-3180-20-700 7 Gasket, Muffler Plate 1 N04-3500-52-700 N04-3500-52-700 8 Gasket, Air Valve 1 N04-2600-52-700 N04-2600-52-700 9 Center Block Assembly 1 N04-3110-20 N04-3110-20 10 Bushing, Reducer 1 N04-6950-20-700 N04-6950-20-700 11 Nut, Square (1/4" 20) 4 N00-6505-03 N00-6505-03 12 Sieeve, Threaded 4 N04-7710-08 N04-7710-08 13 Pilot Spool Retaining O-Ring 2 N04-2850-49-700 N04-2860-49-700 15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N08-3861-01 N08-3861-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 18 Retaining Ring 2 N04-3890-03 N04-3890-03 <	3	End Cap	1	N04-2330-20-700	
6 Muffler Plate 1 N04-3180-20-700 N04-3180-20-700 7 Gasket, Muffler Plate 1 N04-3500-52-700 N04-3500-52-700 8 Gasket, Air Valve 1 N04-2600-52-700 N04-2600-52-700 9 Center Block Assembly 1 N04-3110-20 N04-3110-20 10 Bushing, Reducer 1 N04-6950-20-700 N04-36950-20-700 11 Nut, Square (1/4" 20) 4 N00-6505-03 N00-6505-03 12 Sleeve, Threaded 4 N04-7710-08 N04-7710-08 13 Pilot Spool Retaining O-Ring 2 N04-2650-49-700 N04-2850-49-700 15 Shaft Seal 2 N08-326-49-700 N04-2650-49-700 15 Shaft Seal 2 N08-326-52 N08-3210-55-225 16 Gasket, Center Block 2 N04-3526-52 N08-3210-55-225 17 Air Chamber, Pro-Flo® 2 N08-3681-01 N08-3681-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08	4	Screw, HCH, Air Valve (1/4"-20x 4-1/2")	4	N01-6000-03	N01-6000-03
7 Gasket, Muffler Plate 1 N04-3500-52-700 N04-3500-52-700 8 Gasket, Air Valve 1 N04-2600-52-700 N04-2600-52-700 9 Center Block Assembly 1 N04-2600-52-700 N04-3110-20 10 Bushing, Reducer 1 N04-6950-20-700 N04-6950-20-700 11 Nut, Square (1/4" 20) 4 N00-6505-03 N00-6505-03 12 Sleeve, Threaded 4 N04-7710-08 N04-7710-08 13 Pilot Sleeve Assembly 1 N04-3880-99 N04-3880-99 14 Pilot Spool Retaining O-Ring 2 N04-2650-49-700 N04-2650-49-700 15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N04-3526-52 N04-3526-52 17 Air Chamber, Pro-Flo@ 2 N08-3681-01 N08-3681-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Riing 2 N08-3681-01 N08-3881-01 <	5	Screw, SCH, Air Valve (10-16 x 1 3/4")	2	N04-6351-03	N04-6351-03
8 Gasket, Air Valve 1 N04-2600-52-700 N04-2600-52-700 9 Center Block Assembly 1 N04-3110-20 N04-3110-20 10 Bushing, Reducer 1 N04-6950-20-700 N04-6950-20-700 11 Nut, Square (1/4" 20) 4 N00-6505-03 N00-6505-03 12 Sleeve, Threaded 4 N04-7710-08 N04-7710-08 13 Pilot Sleeve Assembly 1 N04-3880-99 N04-3880-99 14 Pilot Spool Retaining O-Ring 2 N04-2650-49-700 N04-2650-49-700 15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N08-326-52 N04-3526-52 17 Air Chamber, Pro-Flo® 2 N08-3681-01 N08-3681-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Ring 2 N08-381-03 N08-3840-09 20 Shaft 1 N08-3812-03 N08-3840-09 3	6	Muffler Plate	1	N04-3180-20-700	N04-3180-20-700
9 Center Block Assembly 1 N04-3110-20 N04-3110-20 10 Bushing, Reducer 1 N04-6950-20-700 N04-6950-20-700 11 Nut, Square (1/4" 20) 4 N00-6505-03 N00-6505-03 12 Sleeve, Threaded 4 N04-7710-08 N04-7710-08 13 Pilot Sleeve Assembly 1 N04-3880-99 N04-3880-99 14 Pilot Spool Retaining O-Ring 2 N04-2650-49-700 N04-2650-49-700 15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N08-3281-01 N08-3681-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Ring 2 N08-3881-01 N08-3884-09 20 Shaft 1 N08-3812-03 N08-3840-09 3 haft 1 N08-3881-01 N08-38840-09 3 haft 5 haft Stud <td>7</td> <td>Gasket, Muffler Plate</td> <td>1</td> <td>N04-3500-52-700</td> <td>N04-3500-52-700</td>	7	Gasket, Muffler Plate	1	N04-3500-52-700	N04-3500-52-700
10 Bushing, Reducer 1 N04-6950-20-700 N04-6950-20-700 11 Nut, Square (1/4" 20) 4 N00-6505-03 N00-6505-03 12 Sleeve, Threaded 4 N04-7710-08 N04-7710-08 13 Pilot Sleeve Assembly 1 N04-3880-99 N04-3880-99 14 Pilot Spool Retaining O-Ring 2 N04-2650-49-700 N04-2650-49-700 15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N08-381-05-52-225 N08-3210-55-225 16 Gasket, Center Block 2 N08-381-01 N08-381-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Ring 2 N04-3890-03 N04-3890-03 20 Shaft 1 N08-3812-03 N08-3814-03 21 Shaft Stud 2 N/A N08-3814-03 21 Shaft Stud-Maxi-Flex 1 N/A N08-6152-08 22 Inner Piston-Ma	8	Gasket, Air Valve	1	N04-2600-52-700	N04-2600-52-700
111 Nut, Square (1/4" 20) 4 N00-6505-03 N00-6505-03 12 Sleeve, Threaded 4 N04-7710-08 N04-7710-08 13 Pilot Sleeve Assembly 1 N04-3880-99 N04-3880-99 14 Pilot Spool Retaining O-Ring 2 N04-2650-49-700 N04-2650-49-700 15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N04-3526-52 N04-3526-52 17 Air Chamber, Pro-Flo@ 2 N08-3681-01 N08-3681-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Ring 2 N04-3890-03 N04-3890-03 19 Retaining Ring 2 N04-3890-03 N04-3890-03 20 Shaft 1 N/A N08-3814-03 20 Shaft Stud 2 N/A N08-3814-03 21 Shaft Stud 2 N/A N08-6152-08 22 Inner Piston 2	9	Center Block Assembly	1	N04-3110-20	N04-3110-20
12 Sleeve, Threaded	10	Bushing, Reducer	1	N04-6950-20-700	N04-6950-20-700
13 Pilot Sleeve Assembly 1 N04-3880-99 N04-3880-99 14 Pilot Spool Retaining O-Ring 2 N04-2650-49-700 N04-2650-49-700 15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N04-3526-52 N04-3526-52 17 Air Chamber, Pro-Flo® 2 N08-3681-01 N08-3681-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Ring 2 N04-3890-03 N04-3890-03 20 Shaft 1 N08-3812-03 N08-3840-09 Shaft-Maxi-Flex 1 N/A N08-3814-03 21 Shaft Stud 2 N/A N08-6152-08 Shaft Stud-Maxi-Flex 1 N/A N08-6152-08 Shaft Stud-Maxi-Flex 2 N/A N08-6150-08 22 Inner Piston 2 N/A N08-376-01 Inner Piston 2 N/A N08-376-01 N08-1010-51	11	Nut, Square (1/4" 20)	4	N00-6505-03	N00-6505-03
14 Pilot Spool Retaining O-Ring 2 N04-2650-49-700 N04-2650-49-700 15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N04-3526-52 N04-3526-52 17 Air Chamber, Pro-Flo@ 2 N08-3681-01 N08-3681-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Ring 2 N04-3890-03 N04-3890-03 20 Shaft 1 N08-3812-03 N08-3840-09 Shaft Stud 1 N/A N08-3814-03 20 Shaft Stud 2 N/A N08-6152-08 Shaft Stud-Maxi-Flex 1 N/A N08-6152-08 Shaft Stud-Maxi-Flex 2 N/A N08-6150-08 22 Inner Piston 2 N/A N08-3750-01 Inner Piston 2 N/A N08-3750-01 Inner Piston-Maxi-Flex 2 N/A N08-361-01 23 Diaphragm, Back-Up <td< td=""><td>12</td><td>Sleeve, Threaded</td><td>4</td><td>N04-7710-08</td><td>N04-7710-08</td></td<>	12	Sleeve, Threaded	4	N04-7710-08	N04-7710-08
15 Shaft Seal 2 N08-3210-55-225 N08-3210-55-225 16 Gasket, Center Block 2 N04-3526-52 N04-3526-52 17 Air Chamber, Pro-Flo® 2 N08-3681-01 N08-3681-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Ring 2 N04-3890-03 N04-3890-03 20 Shaft 1 N08-3812-03 N08-3840-09 Shaft Stud 2 N/A N08-3814-03 21 Shaft Stud 2 N/A N08-6152-08 Shaft Stud-Maxi-Flex 1 N/A N08-6152-08 Shaft Stud-Maxi-Flex 2 N/A N08-6150-08 22 Inner Piston 2 N/A N08-6150-08 22 Inner Piston 2 N/A N08-3750-01 23 Diaphragm 2 *N/A N08-3761-01 23 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston	13	Pilot Sleeve Assembly	1	N04-3880-99	N04-3880-99
16 Gasket, Center Block 2 N04-3526-52 N04-3526-52 17 Air Chamber, Pro-Flo® 2 N08-3681-01 N08-3681-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Ring 2 N04-3890-03 N04-3890-03 20 Shaft 1 N08-3812-03 N08-3840-09 Shaft Stud 1 N/A N08-3814-03 Shaft Stud 2 N/A N08-6152-08 Shaft Stud-Maxi-Flex 1 N/A N08-6152-08 Shaft Stud-Maxi-Flex 2 N/A N08-6150-08 22 Inner Piston 2 N/A N08-3750-01 Inner Piston-Maxi-Flex 2 N/A N08-3761-01 23 Diaphragm 2 *N/A *N08-1010-55-42 24 Diaphragm, Back-Up 2 *N/A *N08-1000-55-42 25 Outer Piston 2 N/A N08-4600-03 26 Seat, Valve 4 *N/A <	14	Pilot Spool Retaining O-Ring	2	N04-2650-49-700	N04-2650-49-700
17 Air Chamber, Pro-Flo® 2 N08-3681-01 N08-3681-01 18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Ring 2 N04-3890-03 N04-3890-03 20 Shaft 1 N08-3812-03 N08-3840-09 Shaft Stud 1 N/A N08-3814-03 21 Shaft Stud 2 N/A N08-6152-08 Shaft Stud-Maxi-Flex 2 N/A N08-6152-08 Shaft Stud-Maxi-Flex 2 N/A N08-6150-08 22 Inner Piston 2 N08-3700-01 N08-3750-01 Inner Piston-Maxi-Flex 2 N/A N08-3761-01 23 Diaphragm 2 *N08-1010-51 *N08-1010-55-42 24 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston 2 N08-4550-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 26 Seat, Valve 4 *N0	15	Shaft Seal	2	N08-3210-55-225	N08-3210-55-225
18 Screw, HSFHS (3/8" - 16 x 1") 8 N71-6250-03 N71-6250-08 19 Retaining Ring 2 N04-3890-03 N04-3890-03 20 Shaft 1 N08-3812-03 N08-3840-09 Shaft-Maxi-Flex 1 N/A N08-3814-03 21 Shaft Stud 2 N/A N08-6152-08 Shaft Stud-Maxi-Flex 2 N/A N08-6150-08 22 Inner Piston 2 N08-3700-01 N08-3750-01 Inner Piston-Maxi-Flex 2 N/A N08-3761-01 23 Diaphragm 2 *N08-1010-51 *N08-1010-55-42 24 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston 2 N08-450-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N08-400-03 26 Seat, Valve 4 *N08-1120-51 *N08-1120-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4	16	Gasket, Center Block	2	N04-3526-52	N04-3526-52
19 Retaining Ring 2 N04-3890-03 N04-3890-03 20 Shaft 1 N08-3812-03 N08-3840-09 Shaft-Maxi-Flex 1 N/A N08-3814-03 21 Shaft Stud 2 N/A N08-6152-08 Shaft Stud-Maxi-Flex 2 N/A N08-6152-08 22 Inner Piston 2 N08-3700-01 N08-3750-01 Inner Piston-Maxi-Flex 2 N/A N08-3761-01 23 Diaphragm 2 *N/A *N08-1010-55-42 24 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston 2 N08-4550-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 25 Outer Piston 2 N08-4550-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N08-1120-51 *N08-1120-51 26 Seat, Valve 4 *N08-1120-51 *N08-1120-51 *N08-1120-55 Valve Seat, O-Ring (Not Shown)	17	Air Chamber, Pro-Flo®	2	N08-3681-01	N08-3681-01
20 Shaft 1 N08-3812-03 N08-3840-09 Shaft-Maxi-Flex 1 N/A N08-3814-03 21 Shaft Stud 2 N/A N08-6152-08 Shaft Stud-Maxi-Flex 2 N/A N08-6150-08 22 Inner Piston 2 N08-3700-01 N08-3750-01 Inner Piston-Maxi-Flex 2 N/A N08-3761-01 23 Diaphragm 2 *N08-1010-51 *N08-1010-55-42 24 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston 2 N08-4550-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 26 Seat, Valve 4 *N08-1120-51 *N08-1121-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1200-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-5000-03-42 29 Discharge Manifold 1 N08-5000-0	18	Screw, HSFHS (3/8" - 16 x 1")	8	N71-6250-03	N71-6250-08
Shaft-Maxi-Flex 1 N/A N08-3814-03 21 Shaft Stud 2 N/A N08-6152-08 Shaft Stud-Maxi-Flex 2 N/A N08-6150-08 22 Inner Piston 2 N08-3700-01 N08-3750-01 Inner Piston-Maxi-Flex 2 N/A N08-3761-01 23 Diaphragm 2 *N08-1010-51 *N08-1010-55-42 24 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston 2 N08-4550-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 26 Seat, Valve 4 *N08-1120-51 *N08-1121-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5021-03-42 30 Inlet Manifold 1	19	Retaining Ring	2	N04-3890-03	N04-3890-03
21 Shaft Stud 2 N/A N08-6152-08 Shaft Stud-Maxi-Flex 2 N/A N08-6150-08 22 Inner Piston 2 N08-3700-01 N08-3750-01 Inner Piston-Maxi-Flex 2 N/A N08-3761-01 23 Diaphragm 2 *N08-1010-51 *N08-1010-55-42 24 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston 2 N/A N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 26 Seat, Valve 4 *N08-1120-51 *N08-1121-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1200-55 28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5080-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08 <td>20</td> <td>Shaft</td> <td>1</td> <td>N08-3812-03</td> <td>N08-3840-09</td>	20	Shaft	1	N08-3812-03	N08-3840-09
Shaft Stud-Maxi-Flex 2 N/A N08-6150-08 22 Inner Piston 2 N08-3700-01 N08-3750-01 Inner Piston-Maxi-Flex 2 N/A N08-3761-01 23 Diaphragm 2 *N08-1010-51 *N08-1010-55-42 24 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston 2 N08-4550-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 26 Seat, Valve 4 *N08-1120-51 *N08-1121-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1200-55 28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5080-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08		Shaft-Maxi-Flex	1	N/A	N08-3814-03
22 Inner Piston 2 N08-3700-01 N08-3750-01 Inner Piston-Maxi-Flex 2 N/A N08-3761-01 23 Diaphragm 2 *N08-1010-51 *N08-1010-55-42 24 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston 2 N08-4550-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 26 Seat, Valve 4 *N08-1120-51 *N08-1121-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1080-55 28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5080-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08	21	Shaft Stud	2	N/A	N08-6152-08
Inner Piston-Maxi-Flex 2 N/A N08-3761-01 23 Diaphragm 2 *N08-1010-51 *N08-1010-55-42 24 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston 2 N08-4550-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 26 Seat, Valve 4 *N08-1120-51 *N08-1121-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1200-55 28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5080-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08		Shaft Stud-Maxi-Flex	2	N/A	N08-6150-08
23 Diaphragm 2 *N08-1010-51 *N08-1010-55-42 24 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston 2 N08-4550-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 26 Seat, Valve 4 *N08-1120-51 *N08-1121-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1200-55 28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5021-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08	22	Inner Piston	2	N08-3700-01	N08-3750-01
24 Diaphragm, Back-Up 2 *N/A *N08-1060-51 25 Outer Piston 2 N08-4550-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 26 Seat, Valve 4 *N08-1120-51 *N08-1121-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1200-55 28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5021-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08		Inner Piston-Maxi-Flex	2	N/A	N08-3761-01
25 Outer Piston 2 N08-4550-03 N08-4600-03 Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 26 Seat, Valve 4 *N08-1120-51 *N08-1121-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1200-55 28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5021-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08	23	Diaphragm	2	*N08-1010-51	*N08-1010-55-42
Outer Piston-Maxi-Flex 2 *N/A N04-4550-03 26 Seat, Valve 4 *N08-1120-51 *N08-1121-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1200-55 28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5021-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08	24	Diaphragm, Back-Up	2	*N/A	*N08-1060-51
26 Seat, Valve 4 *N08-1120-51 *N08-1121-01 27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1200-55 28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5021-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08	25	Outer Piston	2	N08-4550-03	N08-4600-03
27 Ball, Valve 4 *N08-1080-51 *N08-1080-55 Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1200-55 28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5021-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08		Outer Piston-Maxi-Flex	2	*N/A	N04-4550-03
Valve Seat, O-Ring (Not Shown) 4 *N/A *N08-1200-55 28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5021-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08	26	Seat, Valve	4	*N08-1120-51	*N08-1121-01
28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5021-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08	27	Ball, Valve	4	*N08-1080-51	*N08-1080-55
28 Liquid Chamber 2 N08-5000-03-42 N08-5000-03-42 29 Discharge Manifold 1 N08-5021-03-42 N08-5021-03-42 30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08		Valve Seat, O-Ring (Not Shown)	4	*N/A	*N08-1200-55
30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08	28		2	N08-5000-03-42	N08-5000-03-42
30 Inlet Manifold 1 N08-5080-03-42 N08-5080-03-42 31 Screw, HHCS (3/8"-16x 1-1/4") 60 N08-6185-08 N08-6185-08	29	Discharge Manifold	1	N08-5021-03-42	N08-5021-03-42
	30		1	N08-5080-03-42	N08-5080-03-42
	31	Screw, HHCS (3/8"-16x 1-1/4")	60	N08-6185-08	N08-6185-08
			1	N08-3510-99	N08-3510-99

*Consult Elastomer Options

Exploded View







A JDA Global Company

1645 W. Park Ave., Suite 200 Redlands, CA USA 92373 (909) 798-9532



NO BOUNDARIES_{TM}