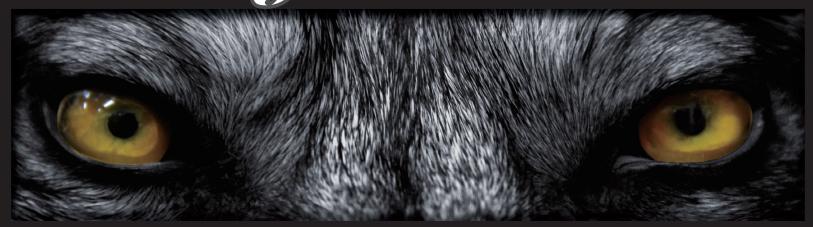


3500 Wolf Series



SIMPLEX

3500 Simplex

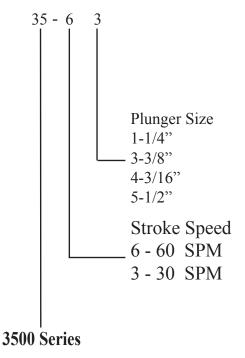


*The Flomore 3500 series chemical injection pumps are electric driven, positive displacement pumps utilizing C-faced motors and common gear reducers. The gear reducers are available in 15, 30, 60, and 120 strokes per minute configurations. By utilizing even further flexibility of a wide variety of plunger sizes, the 3500 Series can fill many application requirements of different flow and pressures.

Additional Information

- Maximum discharge pressure:
 6000 PSI (413 bar) with 3/16" plunger
- Maximum volume 139 gallons per day (528 liters per day) w/1/2" plunger
- Head is adjustable while running
- Availiable Simplex and Duplex
- Availiable in four stroke rates: 15,30,60, or 120 strokes per minute
- 1/2 horsepower motor standard; 1 or 3 phase, TFC or explosion proof; 50 or 60 hertz
- Available with 3/16",1/4", 3/8", or 1/2" plunger

Model Designation



3500 Simplex Performance Data



Model #	Plunger Size	Strokes	Maximum Discharge	Gallons Per Day (per head)	
		Per Minute	Press(PSI)	Maximum	Minimum
35-34SS	3/16"	30	6000	4.9	0.5
35-64SS	3/10	60	6000	9.8	1
35-31SS	1/4"	30	4000	8.6	0.9
35-61SS	1/4	60	4000	17.3	1.7
35-33SS	2/02	30	1800	19.6	2
35-63SS	3/8"	60	1700	39.2	3.9
35-35SS	1/2"	30	1025	34.8	3.5
35-65SS		60	1000	69.7	7

^{*}Note, Performance Data Complies with both Simplex and Duplex Pumps.

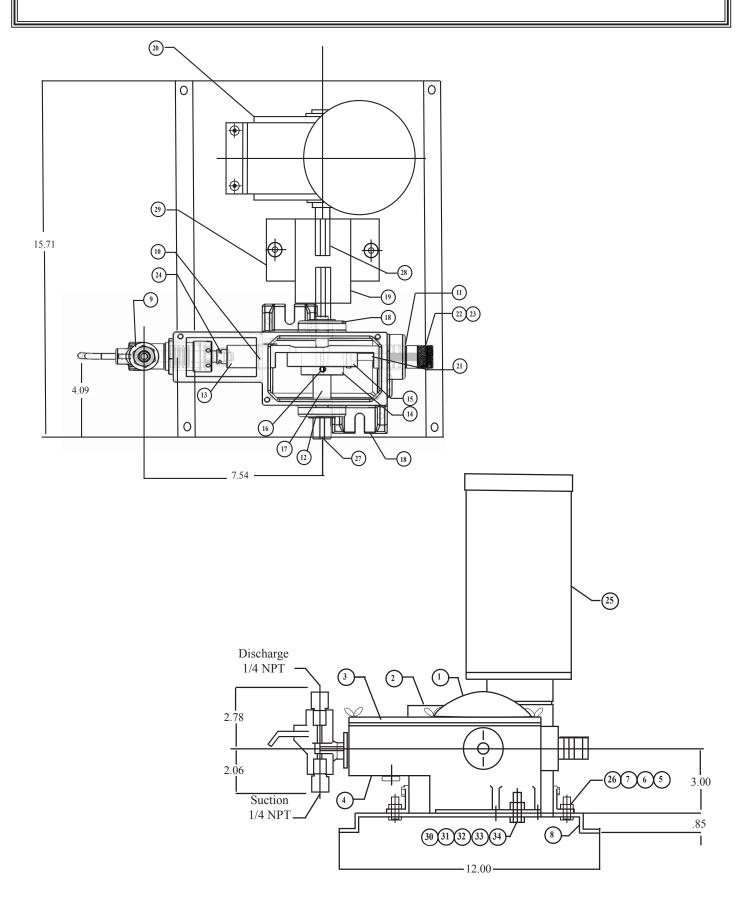
3500 Simplex Parts

Parts List

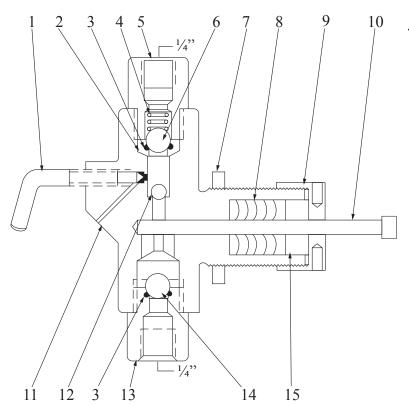
Item	Flomore Part #	Pcs Required	Description	Material
1	B-1483	1	Cover	363F Aluminum
2	A-0136	3	Thumbscrew	Gr 5 Zinc
3	A-5963	1	Cover Gasket	Nitrile
4	C-2048	1	Housing	356T6 Aluminum
5	A-0141	2	HHCS 5/16-18	Gr 5 Zinc
6	A-0144	2	Nut Hex 5/16-18	Gr 5 Zinc
7	A-0167	2	Cut Washer 5/16	Gr 5 Zinc
8	C-2197	1	Base Plate	Galv Steel
9	N/A	1	Head Assembly	316 SS
10	A-5964	1	Cross Head Bearing	Nylon
11	A-5965	1	Cross Head Bearing	Nylon
12	A-6935	1	Sleeve Bearing	Nylon
13	B-1542	1	Cross Head	316 SS
14	A-5823	1	Eccentric Cam	C1018 Steel
15	A-5830	1	Roller Bearing	Steel
16	A-5831	1	Set Screw	Steel
17	A-6386	1	Key	Steel
18	A-6936	1	Sleeve Bearing	Nylon
19	A-6714	1	Coupling	Steel
20	Gear Reducer	1	Reducer	N/A
21	A-5822	1	Stroke Adjustor	C1213 C.R.S
22	A-5824	1	Lock Nut, Stroke Adj.	416 SS
23	A-5825	1	Adjusting Screw	416 SS
24	A-5953	1	Drive Clip	Steel
25	N/A	1	Motor	N/A
26	A-0425	2	Lockwasher 5/16	GR 5 ZINC
27	B-1726	1	Drive Shaft	Steel
28	A-6720	1	Drive Shaft Key	Steel
29	B-1700	1	Coupling Guard	Steel
30	A-0139	4	HHCS 3/8-16x1.25	Gr 5 Zinc
31	A-2207	4	Hex Nut 3/8-16	Gr 5 Zinc
32	A-0746	4	Flatwasher 3/8	Gr 5 Zinc
33	A-0459	4	Lockwasher SPG 3/8	Gr 5 Zinc

^{*} For Installation and Operating Instructions See page 7.

Parts Drawing



Injector Head



Alternate Construction

Item # Part #		Description	Material	
2	A-0806	Top Seat Assembly (Metal-to-Metal)	303 Stainless Steel	
2	B-0843	Top Seat with Viton O'Ring	303 Stainless Steel	
3	A-2580	O'Ring	Viton	
	*		Hard	
	A-3967	³ /16" Plunger Packing	Viton	
	A-3966		Teflon	
	A-2295		Hard	
	A-4102	1/4" Plunger Packing	Viton	
8	A-1642		Teflon	
	A-1875		Hard	
	A-4101	3/8" Plunger Packing	Viton	
	A-1234		Teflon	
	A-1874		Hard	
	A-4103	½" Plunger Packing	Viton	
	A-1012		Teflon	
* 13	A-0771	Bottom Seat Assembly (Metal-to-Metal)	316 Stainless Steel	
13	B-0844	Suction Bushing with Viton O'Ring	303 Stainless Steel	
* 14	A-0053 ½" Suction Ball		316 Stainless Steel	

*Recommended Spare Parts

**Items must be used together

Parts List

T. "	Part #					D		
Item #	3/16"	1/4"	3/8 "	1/2"	# Reqd.	Description	Material	
•	*	B-0166	B-0203	B-0496	- 1	Head Assembly	Ductile Iron with Stainless Steel Trim	
	B-1299	B-1557	B-1558	B-1559] 1		All Stainless Steel	
1	A-4027	A-4027 A-1497			1	Priming Valve	303 Stainless Steel	
* 2	B-0737				1	Top Seat Assembly- Buna	303 Stainless Steel	
* 3	A-0479				1	Suction & Discharge O'Ring	Buna-N	
4	A-0077			1	Ball Check Spring	316 Stainless Steel		
5	A-1496				1	Top Bushing	303 Stainless Steel	
6	A-0054			1	3/8" Large Top Ball	316 Stainless Steel		
7	A-0225			1	Locknut	Brass		
* 8	A-3969	A-1461	A-1456	A-0959	1	Plunger Packing	Buna-N	
9	A-4104			1	Plunger Packing Gland Nut	303 Stainless Steel		
10	A-7001	A-7004	A-7002	A-7003	1	Plunger	17-4 pH Stainless Steel	
11	*	C-0275	C-0276	C-0272	1	1 Body	Ductile Iron	
11	C-2040	C-0291	C-0425	C-0349] 1		Stainless Steel	
12	*	♦ A-0126		1	1/4" Small Top Ball	316 Stainless Steel		
* 13	B-1216	B-1216 B-0736			1	Bottom Seat Assembly-Buna	303 Stainless Steel	
* 14	A-0054			1	3/8" Suction Ball	316 Stainless Steel		
15	A-4332	A-1463	A-0957	A-1219	1	Plunger Packing Gland	303 Stainless Steel	
16	A-0126	A-0126 •		1	1/4" Ball	316 Stainless Steel		
17	A-4394 •			1	Suction Bushing Sealing Washer	304 Stainless Steel		

^{*}Recommended Spare Parts

^{**} Alternate construction availiable see chart above

Installation and Operating Instructions

Installation

- 1.Plan Ahead for proper mounting, pump location is very important. position it to provide efficient routing of suction, discharge lines and electric service.
 - Avoid long suction lines and provide for a flooded suction line whenever possible.
- 2. Pump fluid lines, connections operate best when there is a minimum restriction to the medium flow.
- 3.Install the proper electical starters and disconnect switches
 - It is recommended that a solid mounting support be provided--
 - take advantage of factory installed holes in the base plate for securing the pump

Fluid End

- 4. All fluid connections both suction and discharge, should be sealed tight.
 - Fluid end connections are 1/4" NPT
 - The suction connection is at the bottom of the fluid end, and the discharge connection is at the top.

Motor

- 5.A conduit connection is provided at the motor for electrical connectons.
 - Assure the proper electrical service has been provided.
 - · Assure all connections are tight, in their proper location, properly grounded and fused

Gear Reducer

- 6. Check the oil level of the gear reducer
 - If the oil level is below the output shaft oil plug, refill to the plug with API approved oil

Start Up

- 7. Open the priming valve on the fluid end assembly and start the pump motor
- 8.Allow the pump to run until a clear bubbleless stream of media comes out of the priming valve 9.Close the priming valve
- 10. Check the packing for proper sealing.
 - If it leaks, stop the pump and make necessary adjustments. Adjust the stroke adjustment knob to obtain the desired flow rate

Preventive Maintenance

- 11. Check periodically (min once per month) and apply small amout of grease to the cam bearing and to the crosshead areas that cycle through the linear bearings
 - Check the packing regularly. If leakage is observed, stop the pump.
 - Make small adjustments by turning the gland nut.
 - Restart the pump but do not over tighten the packing as this will reduce the packing life and possibly damage the plunger.

^{**}It is always important to assure the packing material is compatible with the media being pumped, check for swollen or deteriorated seals.