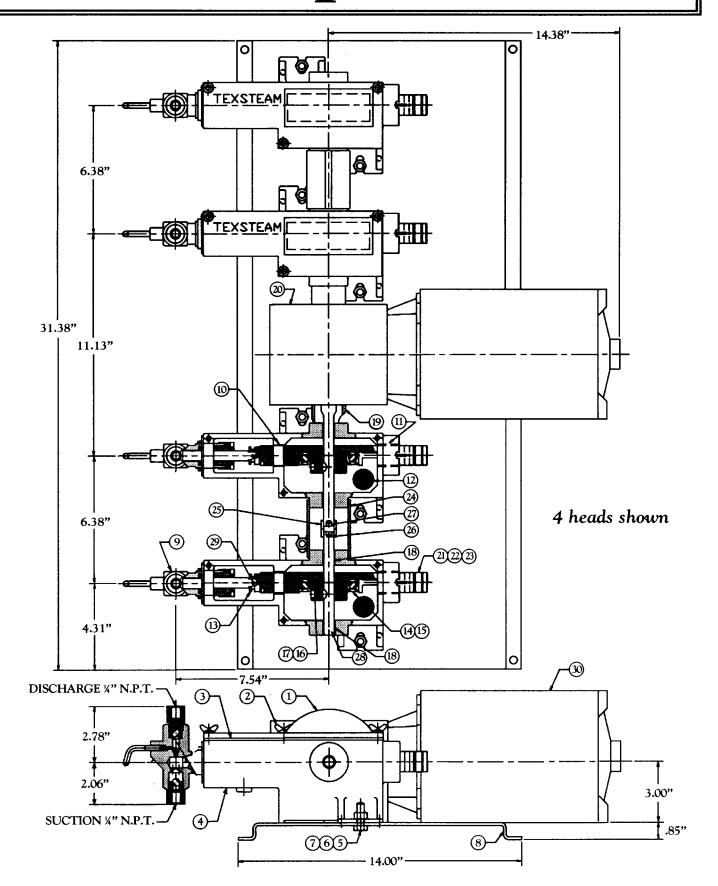


NOTE: Correct electrical protection (circuit breakers) should be provided to protect the pump motors.

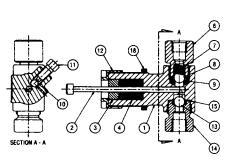
- 6. Turn power on to the pump. The pump should start to cycle. If it doesn't, check the electrical supply circuits.
- 7. Once the pump is cycling, open the priming valve on the fluid end. Allow the trapped air to be expelled from the head. Continue to cycle the pump with the priming valve open until air bubbles are no longer visible in the fluid stream coming from the bleed hole.
- 8. Control the output volume of the pump by adjusting the stroke adjustment knob. The pump can be operated at a stroke length of 10%, minimum volume.
- 9. Once the desired volume is established, the adjustment knob should be locked in place.



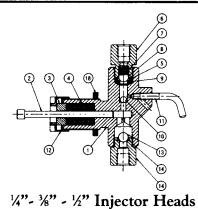
# Pump Unit



## Technical Data







Plunger Size	Pump Mod. #	Assembly Number
3/6"	2304	TB-1560
У,"	2301	TB-1557
′%"	2303	TB-1558
У,"	2305	TB-1559

All stainless steel construction. Ductile iron not available.

### Pump Unit Parts List

ltem	Part #	Name	Material		
1	TB1483	Cover	ASTM A48 Cast Iron		
2	TA0136	1/4-20 x 1/4 Thumbscrew	Cad Plated		
	1710150	77-20 X 74 Triumiosciew	Carbon Steel		
3	TA5821	Cover Gasket	Nitrile		
4	TC2048	Housing	ASTM A48 Cast Iron		
5	TA0142	HHCS 18 x 1.25	Cad Plated		
	17101 12	1111CO 716-10 X 1.23	Carbon Steel		
6	TA0144	Hex 18 Nut	Cad Plated		
		1100710 10 1140	Carbon Steel		
7	TA0300	Cut Washer 1/6	Cad Plated		
	1110500	Out Washer 710	Carbon Steel		
8		Base Plate	Galvanized Steel		
9	See Above	Head Assembly	316 SS		
10	TA5964	Cross Head Bearing	Nylon		
11	TA5965	Cross Head Bearing	Nylon		
12	TA5966	Screen	SS		
13	TB1542	Cross Head	AISI 4140 Hr Steel		
14	TA5823	Eccentric Cam	C 1018 Steel		
15	TA5830	Roller Bearing	Steel		
16	TA5831	10-24 UNC x ¼ Set Screw	Carbon Steel		
17	TA2829	Woodruff Key	Carbon Steel		
18	TA5832	Sleeve Bearing	Reinforced Steel		
19	TA5826	Shaft Guard	Plastic		
20	TA5901	Reducer			
21	TA5822	Stroke Adjustor	C1213 C.R.S.		
22	TA5824	Stroke Adjustor Lock Nut	416 SS		
23	TA2825	Adjusting Screw	416 SS		
24	TC2070	Coupling Cover	Plastic		
25	61282P002	Coupling	Steel		
26	TA5937	Key	Steel		
27	CA0149	Key	Steel		
28	TA5950	Tandem Shaft	Steel		
29	TA5953	Drive Clip	Steel		
30		Motor ½ HP			

#### Injector Head Parts List

		Part N	umbe	r		
Item	1/6"	1/4"	%"	<b>%"</b>	Name	Material
1	TC-2040	TC-291	TC-425	TB-349	Body	SS
*2	TA-6082	TA-6079	TA-6080	TA-6081	Plunger	17-4PH
3	TA-5642	TA-1463	TA-957	TA-1219	Plunger Packing Gland	303 SS
	TA-3969	TA-1461	TA-1456	TA-0959		Buna N
*4	TA-3948	TA-2295	TA-1875	TA-1874	Packing   (see table below for maximum	Hard
`*	TA-3967	TA-4102	TA-4101	TA-4103	discharge pressures)	Viton
	TA-3966	TA-1642	TA-1234	TA-1012	discourage pressures,	Teflon
*5	TA-0479	TA-0479	TA-0479	TA-0479	Suction/Discharge O-ring	Buna N
,	TA-2093	TA-2580	TA-2580	TA-2580	(included in Items 9 & 14)	Viton
6	TA-1496	TA-1496	TA-1496	TA-1496	Top Bushing	302 SS
*7	TA-0077	TA-0077	TA-0077	TA-0077	Ball Check Spring	316 SS
*8	TA-0054	TA-0054	TA-0054	TA-0054	Large Top Ball 36"	316 SS
.0	TA-0064	TA-0064	TA-0064	TA-0064	Large 1 op Dan 78	Hastelloy
*9	TB-0737	TB-0737	TB-0737	TB-0737	Top Seat Ass'y Buna O-ring	303 SS
. 9	N/A	TA-0806	TA-0806	TA-0806	Top Seat Ass'y (M to M)	303 SS
*10	N/A	TA-0126	TA-0126	TA-0126	Small Top Ball 1/4"	316 SS
11	TA-5462	TA-1497	TA-1497	TA-1497	Priming Valve	303 SS
12	TA-4104	TA-4104	TA-4104	TA-4104	Plunger Packing Gland Nut	303 SS
	TA-0054	TA-0054	TA-0054	TA-0054	Suction Ball ¾"	316 SS
*13	TA-0064	TA-0064	TA-0064	TA-0064	Suction Dail 78	Hastelloy
	N/A	TA-0053	TA-0053	TA-0053	Suction Ball 1/2"^	316 SS
*14	TB-1216	TB-0736	TB-0736	TB-0736	Bottom Seat w/Buna O-ring	303 SS
14	N/A	TA-0771	TA-0771	TA-0771	Bottom Seat Bushing †	303 SS
15	TA-4394	N/A	N/A	N/A	Gasket	304 SS
*18	TA-0225	TA-0225	TA-0225	TA-0225	Locknut	Brass

\*Recommended spare parts. ^Use with TA-0771 MtoM Bottom Seat only. †(MtoM) Use with TA-0053 ½" ball only)

#### Maximum Packing Pressures

	Material							
Plunger	Buna-N		Hard		Viton		Teflon	
Size			PSIG	Bars	PSIG	Bars	PSIG	Bars
%₀"	3000	(207)	6000	(414)	3000	(207)	3000	(207)
1/4"	2400	(165)	4000	(275)	2400	(165)	2400	(165)
ж"	1500	(103)	1800	(124)	1500	(103)	1500	(103)
У."	1000	(69)	1025	(71)	1000	(69)	1000	(69)
3/3"	450	(31)	450	(31)	450	(31)	450	(31)
1"	250	(17)	250	(17)	250	(17)	250	(17)

### Technical Data

#### 2300 Electric Pump Pressure and Volume Chart

D)	<u> </u>	Maximum Discharge Press PSI (Bars)		Gallons Per Day (Liters)			
Plunger Size	Strokes per Minute			Maximum		Minimum	
	15	6000	(414)	2.4	(9)	.2	(1)
<i>አ</i> <sub>6</sub> "	30	6000	(414)	4.9	(19)	.5	(2)
716	60	6000	(414)	9.8	(37)	1.0	(4)
	120	4000	(275)	18.7	(71)	1.9	(7)
	15	3200	(221)	4.3	(16)	.4	(2)
<i>¼</i> "	30	4000	(275)	8.6	(33)	.9	(3)
"	. 60	4000	(275)	17.3	(65)	1.7	(7)
<b>!</b>	120	2100	(145)	34.6	(131)	3.5	(13)
	15	1450	(100)	9.8	(37)	1.0	(4)
У,"	30	1800	(124)	19.6	(74)	2.0	(7)
78	60	1700	(117)	39.2	(148)	3.9	(15)
	120	950	(65)	78.5	(297)	7.8	(30)
	15	820	(56)	17.4	(66)	1.7	(7)
У."	30	1025	(71)	34.8	(88)	3.5	(9)
n	60	1000	(70)	69.7	(264)	7.0	(26)
	120	525	(36)	139.5	(528)	13.9	(53)
	15	360	(25)	39.3	(149)	3.9	(15)
34"	30	450	(31)	78.5	(297)	7.8	(30)
74	60	440	(30)	157.0	(594)	15.7	(59)
-	120	230	(16)	313.9	(1188)	31.4	(119)
	15	205	(14)	69.7	(264)	7.0	(26)
1"	30	250	(17)	139.5	(528)	13.9	(53)
1	60	250	(17)	279.1	(1056)	27.9	(106)
	120	130	(9)	558.1	(2113)	55.8	(211)

#### \* For 50 cycle motors multiply above volumes by .8

#### **Model Designation**

