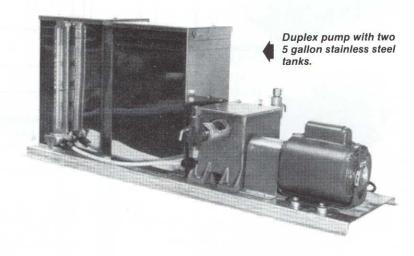
SERIES 4300

Adjustable While Running



Pump Catalog & Parts List

Fred C. Gilbert Co. 106 Norris Road Bakersfield, Ca. 93308 661-399-9569 www.fcgilbert.com



Electric drive chemical injectors

FEATURES

- Integral gear drive and crosshead mechanism in heavy cast iron housing with an oil level sight gauge.
- Output gear of high strength alloy iron is supported in a sturdy special bearing arrangement for maximum rigidity to assure extremely long life.
- A special drip-ring feature on the plunger prevents chemical from being conducted into the gear box and contaminating the lubricant.
- Oil level gauge on gear box.

- A full gasket under the gear box cover provides a positive barrier against moisture, dirt, and corrosive vapors.
- Choice of liquid ends . . . all interchangeable.
- Multiplex models with up to 8 heads driven by a common motor are available.
- Stainless steel tanks
- Flow rate is adjustable while the pump is running.

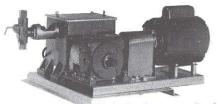
DESCRIPTION

The series 4300 chemical injectors are electric motor driven, positive displacement pumps utilizing an integral worm gear drive available in three different standard ratios and 6 plunger sizes to provide a wide selection of volumes and pressures .063 GPD up to 325 GPD per head, against pressures from 150 to 5000 psig. An optional 10 to 1 gear reducer, mounted externally, is available for extra low pumping rates from 1¹/₄ gallons per day down to 1/2 pint per day.

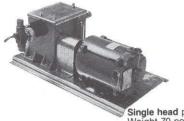
Pumps are standard with a micrometer type stroke adjustment that puts an end to the tedious work of stopping and starting the pump while trying to set the proper flow rate. A 0-100% change in capacity is possible while the pump is running. Each complete turn of the knob results in a 10% change in stroke setting. Repeatable

accuracy is \pm 1% of set point. Up to eight heads driven by a common motor are possible, and each head can be independently adjusted.

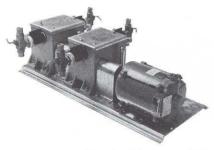
The standard, virtually trouble free packed plunger injector heads have built-in priming valves and a drip-ring type barrier that will prevent chemicals from being conducted along the plunger and into the gear box. Standard pumps can be furnished with high strength ductile iron or all stainless steel liquid ends to handle a wide variety of chemicals used in oil and gas production facilities, pipelines, process plants and other applications where a rugged, easy to maintain proportioning pump is required. Special PVC plastic heads are also available for highly corrosive chemicals that can not be handled with the standard heads.



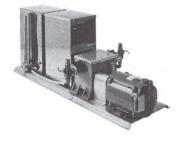
Single head power unit with 10:1 gear reducer for volumes down to 1/2 pint per day. Weight 90 pounds.



Single head power unit. Weight 70 pounds.



Four headed power unit. Up to 8 head maximum available. Weight 120 pounds - 4 headed unit. 270 pounds - 6 headed unit

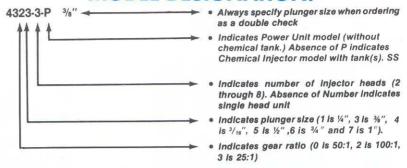


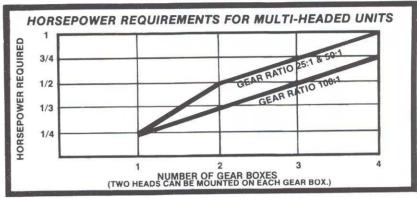
Double headed chemical injector with two 5 gallon SS tanks. Weight 110 pounds.

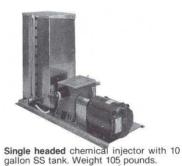
MODELS AVAILABLE

The Texsteam 4300 Series pump is gear-driven and utilizes an electric motor, as a power source. Power units (less tank) and chemical injectors (with tank, suction piping and flow rate gauge) are available with from one to eight pumping heads in a choice of gear ratios (25:1, 50:1 or 100:1) and plunger sizes (3/16", 1/4", 3/8", 1/2", 3/4" or 1"). Refer to the chart below to determine horsepower requirements for units with multi heads.

MODEL DESIGNATION:





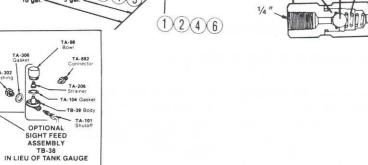


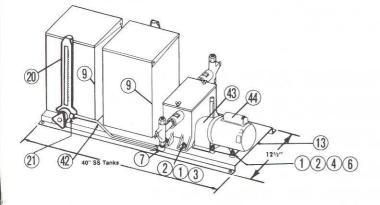


Single headed chemical injector with 5 gallon SS tank. Weight 90 pounds.

	MAXIMUM	100:1 RATIO (17.5 SPM)				50:1 RATIO (35 SPM)				25:1 RATIO (70 SPM)			
PLUNGER SIZE DISCHARGE PRESSURE Single Head Units			MIN.	MA	X. GPD		MIN.	MAX. GPD			MIN.	MAX	X. GPD
		Model No.	60 Hz Motor		50 Hz Motor	Model No.	60 Hz 50 Hz Motor Motor		Model No.	0.75	60 Hz 5 Motor N		
3/16"	5000 #Hard Pkg. 3000 #Soft Pkg.	4324	.063	2.5	2.07	4304	.13	5	4.15	4334	.25	10	8.3
1/4"	2400 PSI	4321	.5	5	4.15	4301	1	10	8.3	4331	2	20	16.6
3/8"	1200 PSI	4323	1.2	12	9.96	4303	2.3	23	19.09	4333	4.6	46	38.1
1/2"	600 PSI	4325	2.1	21	17.43	4305	4.0	40	33.2	4335	8	80	66.4
3/4"	300 PSI	4326	4.6	46	38.0	4306	9.1	91	75.5	4336	18.2	182	151
1"	150 PSI	4327	8.1	81	67.5	4307	16.3	163	135.2	4337	32.5	325	269.7
Double	Headed Units	Model No.				Model No.				Model No.			
3/16"	5000 #Hard Pkg. 3000 #Soft Pkg.	4324-2	.13	5	4.14	4304-2	.26	10	8.3	4334-2	.5	20	16.6
1/4"	2400 PSI	4321-2	1	10	8.3	4301-2	2	20	16.6	4331-2	4	40	33.2
3/6"	1200 PSI	4323-2	2.4	24	19.9	4303-2	4.6	46	38.18	4333-2	9.2	92	76.4
1/2"	600 PSI	4325-2	4.2	42	34.86	4305-2	8	80	66.4	4335-2	16	160	132.8
3/4"	300 PSI	4326-2	9.2	92	76.3	4306-2	18.2	182	151	4336-2	36.4	364	302.1
1"	150 PSI	4327-2	16.2	162	134.4	4307-2	32.6	326	270.5	4337-2	65.0	650	539.5

Gear box shaft height is 3%" from base to center line of shaft. If a Frame 48 Motor is used. Four (4) TA-1741 shims are required. A Frame 56 Motor can be mounted on base without shims. 11 (12)(14) **TB-871 TANK GAUGE FOR 5 GALLON TANKS** *TB-874 Repair Kit Parts 1246





VOLUM	ETRIC CO	ONVERSION	FACTORS	
cc/sec	x	0.95	=	GPH
cc/min	x	0.016	=	GPH
cc/hr	- X	0.00026	=	GPH
liters/sec	×	952.0	=	GPH
liters/min	х	15.9	=	GPH
liters/hr	×	0.264	=	GPH
imperial GPM	×	72.0	=	GPH
imperial GPH	x	1.20	=	GPH
ml/sec	х	0.95	=	GPH
ml/min	×	0.016	=	GPH
ml/hr	x	0.00026	=	GPH
m3/hr	×	264.2	=	GPH

PARTS LIST

26 25

TA-675 303 SS TA-676 BRASS LINE CHECK

(15)

1/4 "

ITEM	PART NO.	PART NAME/MATERIAL
1	TA-0164	Hex Nut
2	TA-3303	Lockwasher ¼" Steel
3	TA-0167	Cut Washer
4	TA-0107	Spacer (48 frame motor only)
5		Base 10 Gauge Galvanized Steel
	TB-0437	Cap Screw
6	TA-0163	
7	TA-3116	Elbow & Compression Nut
8	TB-0436	5 Gal. Tank & Pump Base
	TC-0269	10 Gal. Tank & Pump Base
0	TA-0664	5 Gal. Chemical Tank 430 SS
9	TA-2057	5 Gal. Chemical Tank 316 SS
	TA-1539	10 Gal. Chemical Tank 304 SS
11	TA-0425	Lockwasher
12	TA-0300	Cutwasher
13	TB-0431	Base for two 5 Gal. SS Tanks
14	TA-0144	Hex Nut
15	TA-0677	Brass Outer Body
※16	TA-0391	316 SS Spring
※17	TA-0054	316 SS Ball
con.	TA-0479	Buna N O-ring
※18	*18 TA-2093 Viton O-ring	
19	TA-0678	Brass Inlet Body
	TB-0871	5 Gal. SS Tank Gauge Assembly
20	TB-1285	10 Gal. Tank Gauge Assembly
21	TA-3118	Connector & Compression Nut
23	TA-3116	Polypropylene Tube
24	TA-3101	303 SS Valve Body
	TA-3113	303 SS Retainer Nut
25 26	TA-3104	303 SS Strainer
	Annual Control of the	Cad Plated Steel U-bolt
27	TA-3106	
28	TA-2184	Viton O-ring
29	TA-3102	Glass Gauge TB-874
30	TA-3101	Fiber Flat Washer Gauge Repair Kit
31	TA-3100	ooo oo opinig
32	TA-3199	Viton O-ring
33	TA-0577	Cad Plated Steel Washer
34	TA-0164	Cad Plated Steel Nut
35	TC-0393	Aluminum Frame
36	TA-3112	Cad Plated Steel Valve Handle
37	TA-0164	Cad Plated Steel Nut
38	TA-3114	Valve Stem
39	TA-3113	316 SS Spring
40	TA-3328	303 SS Washer
41	TA-3107	Viton O-ring
42	TA-3162	Polypropylene Tube
43	TB-1167	Coupling Guard
	TA-2266	1/4 HP, 1Ph, 60Hz, 115/230V, Open DP
	TA-2272	1/4 HP, 3Ph, 60Hz, 230/460V, Open DP
44	TA-2264	1/4 HP, 1Ph, 60Hz, 115/230V, TEFC
44	TA-2268	¼ HP, 3Ph, 60Hz, 230/460V, TEFC
	TA-2265	1/4 HP, 1Ph, 60Hz, 115/230V, EX Proof

* Recommended spare parts NOTE: All motors are 1800 RPM

PRESSI	JRE CO	NVERSION	FACTOF	₹S
KG/Sq CM	X	14.2	=	PSIG
In. Hg	X	0.49	=	PSIG
In. Water	X	0.036	=	PSIG
Ft. of Water	X	0.43	=	PSIG
Atmospheres	X	14.7	=	PSIG
kPa (kilo Pascal)	Х	0.1450	=	PSIG
Mega Pa	Х	145.0	=	PSIG

INSTALLATION

- 1. Remove pump from carton and inspect for possible damage in transit from factory. The cardboard carton was designed especially for this pump. If the pump has been damaged in transit, file claim with the carrier.
- 2. Bolt holes are provided for a permanent mounting (see drawing for dimensions).
- 3. Remove the gear box lid and fill gear box with $1^1/2$ quarts of a good grade of lubricant. The oil level should be maintained level with the top of the crosshead guide rods, item #24.
- 4. **Adjust the stroke length** to the desired volume. A full stroke length (1") will pump the maximum volume as shown in the data sheet. For approximately 50% volume use a 1/2" stroke, etc.
- 5. Connect the suction line to pump head
 - a. If a reservoir is furnished with the pump, the suction line is already connected. fill the reservoir and open (all the way) the pmp rate setting gauge valve, item #35. A strainer is furnished as a part of this unit.
 - b. If a **power unit model** (without tank) was purchased, a strainer should be piped into the suction line to prevent sand, rust or other particles from injuring the plunger and fouling the check valves.
- 6. Connect he discharge line. A 1/4" line check is provided with all 3/16", 1/4", 3/8" & 1/2" heads. This valve should be installed as close to the point of injection as possible. Note the arrow on the check valve indicates the direction of flow. The top connection on the pump head is the outlet and has a 1/4" female pipe thread connection.

- 7. Mount motor if pump was ordered less motor. The pump input shaft speed should not exceed 1800 RPM and will operate the pump in either direction of rotation (CW or CCW). After careful alignment with shaft coupling (furnished on all pumps), bolt motor securely in place. Shaft alignment is very important. Misalignment will cause the bearings in the motor and pump as well as the coupling to wear out. Shim the motor if necessary. To check free rotation turn motor and pump over by grasping the coupling and rotating. A minimum of 1/16" spacing should be allowed between coupling ends for expansion. The use of an overload protector in the motor circuit is recommended.
- **8.** Install Item #16, priming valve (included with pump, but shipped loose in carton) on the pump head.
- 9. Start motor and prime the pump head by opening the priming valve. After the pump discharges fluid through the priming valve discharge without bubbles, slowly close the priming valve for normal operation. At this point make a visual check of the packing drip, and using the TA-315 gland wrench that is included in the package, slowly tighten the gland to prevent excess drippage and waste of chemicals. Do not overtighten plunger packing. Keep TA-315 gland wrench handy for future packing adjustment. It may be necessary to readjust the packing the next day. A slight leak during the break-in is beneficial. sufficient time should be allowed to let the packing "seat in". Do not tighten packing when pump head is under load. (Discharge pressure should be atmospheric.

If low volumes are being pumped, the pump head, the fluid discharge line and all other fittings up to the line check should be thoroughly purged of all air bubbles.

Check pump action by opening the priming valve.

OPERATING INSTRUCTIONS

- **1. Check oil level in gear box regularly.** Observe oil level indicator, Item #5.
- 2. Check for excess chemical leakage around the packing gland. If it is impossible to tighten, replace the packing. If the plunger is badly scored, replace the plunger and packing. If excessive packing failure is experienced, consult your Texsteam representative.
- 3. Each Texsteam Series 4300 Pump has an adjustment for the required stroke length. To adjust stroke length see the FLOW RATE ADJUSTMENT instruction note on page 5.

MAINTENANCE INSTRUCTIONS FOR ELECTRIC DRIVEN

REPLACING THE STROKE ADJUSTMENT GEARS

When replacing the Nylon stroke adjustment gears, they have to be correctly positioned relative to the crosshead, the stroke adjustment knob, and to each other.

Rotate the motor coupling by hand until the crosshead, Item 2, is moved forward as far as it will go toward the side of the housing on which the head is mounted.

Assemble the small and large gears, Items 19 & 21, in place. Reference the illustrations on page 5. Leave the set screw, Item 23, in the large gear, loose for the time being. The two gears should be in mesh at this point, and rotating the large gear by hand will cause the small gear to move forward & back on the adjustment bolt, Item 16. turn the large gear in the direction that causes the small gear to move forward toward the crosshead, and continue this turning motion until the small gear is flush up against the crosshead (no lost motion). Now turn the stroke adjustment knob, Item 55, clockwise until it covers the last groove on the spindle, then tighten Item 23, the set screw, in the large nylon gear, using a 5/64" Allen wrench.

The pump is now set in the full discharge stroke position, and all parts are in their correct relative positions. To make further adjustment in the flow rate, see the FLOW RATE ADJUSTMENT instruction about 1/3 the way down on page 5.

DISASSEMBLY OF THE POWER MECHANISM

1. Disconnect and remove pump head from power unit.

- 2. Remove Item 21, large Nylon drive gear, by loosening Item 23, set screw with a 5/64" Allen wrench.
- 3. Remove Item 15 rod retainers and Item 14 "O" rings from each end of Item 24 bearing rods.
- 4. Using proper site punch, push bearing rods through Item 2 crosshead and out opposite side of gear box.

TO REMOVE ITEM #28 CROSSHEAD BEARING FROM WORM GEAR

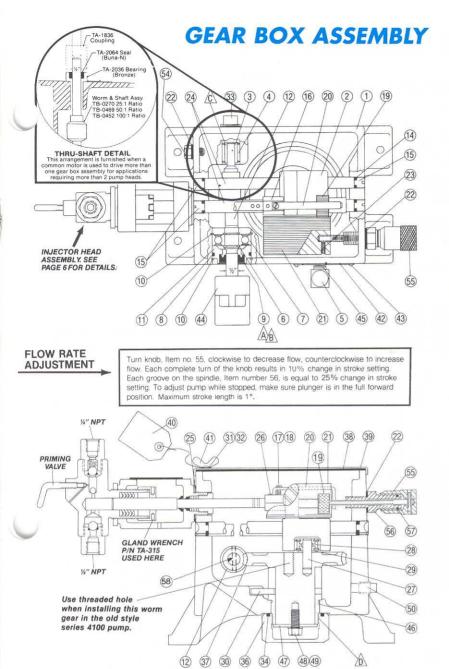
Remove Item 2 crosshead and lift bearing off Item 27 bearing stud.

TO REMOVE WORM GEAR ITEM #37 AND ITEM #46 BEARING FROM GEAR BOX

- 1. Remove cap Item 36 from bottom of pump.
- 2. Remove Item 48 hex-head machine screw, Item 49 spring washer and Item 47 bottom thrust washer. You can remove the worm gear Item 37 and Item 46 bearing through the top of the housing Item 1.
- 3. Upon replacing be certain the gear roll pin Item 30 is located in it's proper place holding the bearing Item 46 in proper alignment.

TO REMOVE THE WORM GEAR AND SHAFT ITEM #12 SHAFT END BEARING and/or OIL SEAL ITEM #9

It is not necessary to remove crosshead, guide rods or worm gear in order to remove the drive shaft and its component parts.



CHEMICAL INJECTOR SERIES 4300

1. Disconnect flexible coupling and remove motor from base. If unit is equipped with container on base, it is best to remove entire gear box from

> . Remove Item 10 truarc ring b. Remove Item 33 pipe plug

b. Remove Item 33 pipe plug (opposite side)

2. Insert proper size punch into recess on small end of Item 12 shaft (small end under Item 33 pipe plug). carefully drive shaft out through opposite side of housing. Punch side should be small enough so not to drive against Item3 inner race (if it is desirable to remove Item 4 needle bearing and Item 3 inner race, it should be done after the shaft has been removed).

As the shaft is being driven out, care should be taken to see that the large worm gear turns. This will "walk" or disengage the gear teeth.

As the shaft emerges, from the side of housing, it will force out the oil seal Item 9, seal cartridge Item 11 and ball bearing Item 7.

Withdraw the shaft from pump housing.

Withdraw the shaft from pump housing. In order to remove ball bearing Item 7 from shaft, it is necessary to

remove one or both truarc rings Item 6.

Upon replacing care should be taken to "walk" the two worm gears

back together.

Be sure the two truarc rings item 6 are in place: also seal and seal housing are in properly (the seal lips and seal expander spring should face into the pump). Make sure the "0" ring Item 8 is in its proper place, the shaft assembly should be inserted into the pump until shaft bearing Item 7 shoulders against the truarc ring Item 10 located near the inner edge of the hole into which the shaft is inserted.

PARTS LIST

ITEM	PART NUMBER	NO. REQ'D.	PART NAME	MATERIAL
1	TD-0492	1	Housing	Cast Iron
2	TB-1333	1	Crosshead	Cast Iron
▲ * 3	TA-2287	1	Inner Race Bearing	Carbon Steel
▲ * 4	TA-2286	1	Needle Bearing	Carbon Steel
5	TA-4066	1	Oil Gauge Assembly	Brass with Glass Tube
▲ 6	TA-3310	2	Truarc Ring	Carbon Steel
▲ * 7	TA-2285	1	Ball Bearing	Carbon Steel
* 8	TA-1961	1	0-ring	Buna N
▲ * 9	TA-2064	1	Seal	Buna N
▲ 10	TA-3311	2	Truarc Ring	Carbon Steel
* 11	TA-4045	1	Cartridge Seal	Carbon Steel
	TA-1871	1	Worm & Shaft Ass'y (25:1 Ratio)	Carbon Steel
▲ 12	TA-2250	1	Worm & Shaft Ass'y (50:1 Ratio)	Carbon Steel
- 15	TA-1755	1	Worm & Shaft Ass'y (100:1 Ratio)	Carbon Steel
▲ 13	TA-3319	1	Pipe Plug	Cast Iron
* 14	TA-3849	4	0-ring	Buna N
· 14	TA-4228	4	Retainer Rod	Carbon Steel
16	TA-4755	1	Adjustment Bolt	Carbon Steel
<u>1</u> 17	TA-4755	1	Lockwasher	Steel Cad Plated
	100000000000000000000000000000000000000		CASCATION CANADA	
18	TA-4753	1	Round Head Screw	Steel Cad Plated
19	TA-4757	1	Stroke Adjustment Gear	Nylon
20	TA-4756	1	Guide Bar	304 SS
21	TA-4758	1	Stroke Adjustment Drive Gear	Nylon
22	TA-4759	2	Gasket	Buna N
23	TA-4894	1	Set Screw	Steel
24	TA-4229	2	Crosshead Guide Rod	Carbon Steel
25	TA-4256	2	Belleville Washer	302 SS
▲ 26	TA-0290	1	Plunger Pin	Carbon Steel
27	TA-4064	1	Bearing Stud	Carbon Steel
* 28	TA-4065	1	Crosshead Bearing	Carbon Steel
29	TA-458	1	Washer	Carbon Steel
▲ 30	TA-2337	1	Roll Pin	Carbon Steel Cad Plated
* 31	TA-4092	2	¼" Stat-O-Seal	Buna N
* 32	TA-4093	2	¼" Gaskets	Neoprene
33	TA-3309	1	Pipe Plug	Malleable Iron Galvanized
▲ * 34	TA-2457	4	0-ring	Buna N
▲ 36	TA-1921	1	Cap	Ductile Iron
A 00	TB-621	1	Worm Gear (25:1 Ratio)	Cast Iron
▲ 37	TB-616	1	Worm Gear (50:1 Ratio)	Cast Iron
A	TB-623	1	Worm Gear (100:1 Ratio)	Cast Iron
38	TA-4814	1	Cover Gasket	Neoprene
39	TC-1576	1	Cover	Carbon Steel Galvanized
▲ 40	TA-1656	-	Lubrication Instructions	
				Paper Tag
▲ 41	TA-2970	2	Wing Screw	Carbon Steel Cad Plated
42	GA-3181	1	Name Plate	304 SS
43	TA-171	2	Escutcheon Pin	Brass
▲ 441	100000000000000000000000000000000000000	1	½"x¾" Coupling (56 frame motor)	TA-1836 ½"x½"
45	TA-3325	1	¼" Nipple	Carbon Steel Cad Plated
▲ 46	TB-619	1	Lower Bearing	Ductile Iron
▲ 47	TA-1930	1	Bottom Thrust Washer	Carbon Steel
▲ 48	TA-2501	1	Machine Screw	Carbon Steel
▲ 49	TA-459	1	%" Spring Lockwasher	Carbon Steel
50	TA-138	1	Pipe Plug	Malleable Iron Galvanized
51	See Pg. 6		Injector Heads	
54	TA-4795	1	Bolt	Steel Cad Plated
55	TA-4805	1	Stroke Adj. Knob & Screw Ass'y	Steel
56	TA-4761	1	Stroke Adjustment Spindle	303 SS
57	TA-2116	i	0-ring	Buna N
58	TA-2351	1	Roll Pin	Carbon Steel

Recommended spare parts

Item 44-alternate coupling for 48 frame TA-1836 1/2"x1/2"

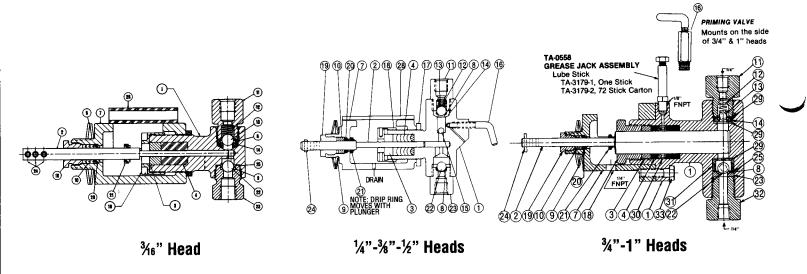
▲ These parts are directly interchangable with Series 4100 and 4200 pumps Apply Lubriplate 630 AA to wear surfaces of the following items:

Guide & Crosshead Bearing Rod surfaces in contact with Crosshead. Worm Teeth & Gear Teeth. Seal Cartridge (Item 11). Worm Gear in contact with Lower Bearing (Item 46). Thrust Washer (Item 47). Surface in contact with Lower Bearing (Item 46).

Apply Lubriplate 630 AA or equal between Shaft & Seal lips.

Assemble Oil Seal flush with end of Cartridge

Apply Lubriplate 630 AA or equal.



PARTS LIST: SERIES 4300 INJECTOR HEADS (For PVC Plastic Heads, see Page 7)

		PLL	INGER SIZE	3/16"	1/4	,,	3/4	797	1/2	71	3/2	(" 	1	"
		MATERIAL SPE		ALL SS TRIM	DUCTILE IRON W/SS TRIM	ALL SS TRIM								
		HEAD ASSEMBL	Y NUMBER	TC-2041	TC-1578	TC-1582	TC-1579	TC-1583	TC-1580	TC-1584	TC-1888_	TC-1887	TC-1886	TC-1885
	ITEM	PART NAME	MATERIAL											
[1	Body		TC-2040	TC-0275	TC-0291	TC-0276	TC-0425	TC-0272	TB-0349	TC-0333	TC-0340	TC-0020	TC-0138
.■*	2	Plunger	17-4PH SS	TB-1471	TB-1175	TB-1175	TB-1176	TB-1176	TB-1177	TB-1177	TB-1351	TB-1351	TB-1352	TB-1352
_	. 3	Plunger Packing Gland	303 SS	TA-5642	TA-1463	TA-1463	TA-0957	TA-0957	TA-1219	TA-1219	TA-2769	TA-2769	TA-0043	TA-0043
*	4	Plunger Packing Set (Buna N)	Buna N	TA-3969	TA-1461	TA-1461	TA-1456	TA-1456	TA-0959	TA-0959	_TA-2771	TA-2771	TA-0050	TA-0050
	7	Yoke	Malleable Iron	TB-1173	TB-1173	TB-1173	TB-1173	TB-1173	TB-1173	TB-1173	TC-1884	TC-1884	TC-1884	TC-1884
7	8	O-ring (included in Item 23)	Buna N	TA-0479	TA-0479	TA-0479	TA-0479	TA-0479	TA-0479	TA-0479	TA-0612	TA-0612	TA-0612	TA-0612
	9	Belleville Washer (2 required)	Carbon Steel	TA-4256	TA-4256	TA-4256								
*	10	Yoke Packing Set	Buna N	TA-4892	TA-4127	TA-4127								
	11	Top Bushing	302 SS	TA-1496	TA-1496	TA-1496	TA-1496	TA-1496	TA-1496	TA-1496	TA-0152	TA-0152	TA-0152	TA-0152
<u>*</u>	12	Ball Check Spring	316 SS	TA-0077	TA-0077	TA-0077								
- *	13	Large Top Ball 3/8"	316 SS	TA-0054	TA-0054	TA-0054								
_* _*	14	Top Seat Ass'y w/Buna N O-ring	303 SS	TB-0737	TB-0737	TB-0737	TB-0737	TB-0737	TB-0737	TB-0737	TB-0368	TB-0368	TB-0368	TB-0368
A *	15	Small Top Ball ¼"	316 SS	TA-0126	TA-0126	TA-0126	TA-0126	TA-0126	TA-0126	TA-0126	N/A	N/A	N/A	N/A
_	16	Priming Valve (Ball & Spring inc. ¾6")	303 SS	TA-5462	TA-1497	TA-1497	TA-1497	TA-1497	TA-1497	TA-1497	TA-0123	TA-0123	TA-0123	TA-0123
	17	Yoke Lock Nut	Brass	TA-0225	TA-0225	TA-0225	TA-0225	TA-0225	TA-0225	TA-0225	N/A	N/A	N/A	N/A
- Ā l	18	Plunger Packing Gland Nut	316 SS	TA-4104	TA-4104	TA-4104	TA-4104	TA-4104	TA-4104	TA-4104	TA-2768	TA-2768	TA-0047	TA-0047
- 2	19	Yoke Packing Nut	Brass	TA-4094	TA-4094	TA-4094								
	20	Plunger Wiper Ring	Buna N	TA-4095	TA-4095	TA-4095								
	21	Plunger Drip Ring	Buna N	TA-4095	TA-4095	TA-4095								
_	22	Suction Ball ¾" Ø ½" Ø in., ¾" & 1" Head	316 SS	TA-0054	TA-0054	TA-0054	TA-0054	TA-0054	TA-0054	TA-0054	TA-0053	TA-0053	TA-0053	TA-0053
A *	23	Bottom Seat w/Buna N O-ring	303 SS	TB-1216	TB-0736	TB-0736	TB-0736	TB-0736	TB-0736	TB-0736	TB-0698	TB-0698	TB-0698	TB-0698
*	24	Plunger Pin	Carbon Steel	TA-0290	TA-0290	TA-0290								
1	25	Gasket	304 SS	TA-4394	N/A	N/A	N/A	N/A	N/A	N/A	TA-2338	TA-2338	TA-2338	TA-2338
1	26	O-ring	Buna N	N/A	N/A	N/A								
<u>*</u>	27	0-ring	Buna N	N/A	N/A	N/A								
1	28	Yoke Cover	Plastic	TC-1604	TC-1604	TC-1604	TC-1604	TC-1604	TC-1604	TC-1604	N/A	N/A	N/A	N/A
	29	Gasket (3 required)	Tern Plate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TA-2350	TA-2350	TA-2350	TA-2350
*	30	Lantern Ring	303 SS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TA-2770	TA-2770	TA-0448	TA-0448
*	31	Ball Cage	303 SS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TA-0444	TA-0444	TA-0444	TA-0444
	32	Bottom Bushing	303 SS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TA-0153	TA-0153	TA-0153	TA-0153
	33	Bolt	303 SS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TA-4452	TA-4452	TA-4452	TA-4452
	Alterna	te Parts for Corrosive Service												,
			Viton 2400# Maximum	TA-3967	TA-4102	TA-4102	TA-4101	TA-4101	TA-4103	TA-4103	TA-4657	TA-4657	TA-4658	TA-4658
*	4	Plunger Packing	Teflon 1000# Maximum	TA-3966	TA-1642	TA-1642	TA-1234	TA-1234	TA-1012	TA-1012	TA-2988	TA-2988	TA-1013	TA-1013
- *			Hard 5000# Maximum	TA-3948	TA-2295	TA-2295	TA-1875	TA-1875	TA-1874	TA-1874	TA-2772	TA-2772	TA-4135	TA-4135
▲ *	8	O-ring	Viton	TA-2580	TA-2580	TA-2580	TA-2580	TA-2580	TA-2580	TA-2580	TA-2184	TA-2184	TA-2184	TA-2184
▲ *	14	Top Seat Ass'y (M to M)	303 SS	N/A	TA-0806	TA-0806	TA-0806	TA-0806	TA-0806	TA-0806	TA-0157	TA-0157	TA-0157	TA-0157
▲ *	22	Ball ½" (use with TA-0771 M to M Bottom Seat only)	316 SS	N/A	TA-0053	TA-0053	TA-0053	TA-0053	TA-0053	TA-0053	N/A	N/A	N/A	N/A
	23	Bottom Seat (M to M)	303 SS	N/A	TA-0771	TA-0771	TA-0771	TA-0771	TA-0771	TA-0771	TA-0051	TA-0051	TA-0051	TA-0051
▲ *	27	O-ring	Viton	N/A	N/A	N/A								

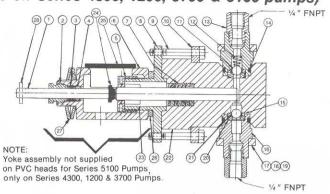
^{*} Recommended spare parts.▲ Interchangable with Series 4100 pump heads. ■ Must be used together to convert old style 4100 heads to new style 4300 heads (does not apply to 3/16" and 1/8" heads).

● Interchangable with all Series 4100 pump heads except 1/8" head (does not apply to 3/16" heads).

PVC PLUNGER TYPE HEAD

(Use on Series 4300, 1200, 3700 & 5100 pumps)

Fred C. Gilbert Co. 106 Norris Road Bakersfield, Ca. 93308 661-399-9569 www.fcgilbert.com



INSTALLATION

To install on the 4300 power unit, remove standard head then screw PVC plunger type head into gear box and tighten. Vertical position of suction and discharge can be aligned by loosening cap screws, Item 9, and rotating head to desired position. Retighten cap screws (Item 9).

OPERATION

Operation of the PVC plunger type head is the same as for standard head as discribed on page 4.

		Y. 118				
Head A	ssembly Numbers					
	Series	-	TC-1855	TC-1882	TC-1883	
Pump	Series 5100 -	-	TB-0865	TB-0866	TB-0867	
	NO.			LUNGER SI	ZE	
ITEM	NAME	REQ	1/4"	3/8"	1/2"	MATERIAL
1	Plunger 1200, 3700, 4300	1	TB-1342	TB-1345	TB-1346	Hastelloy C
	Plunger 5100	1	TA-3089	TA-3092	TA-3098	
2	Packing Nut	1	TA-4094	TA-4094	TA-4094	Brass
* 3	Yoke Packing	1	TA-4127	TA-4127	TA-4127	Buna N
* 4	Wiper	1	TA-4095	TA-4095	TA-4095	Buna N
5	Gland Nut	1	TA-4104	TA-4104	TA-4104	316 SS
6	Yoke	1	TB-1173	TB-1173	TB-1173	Malleable Iron
*7	Packing	1	TA-3091	TA-3084	TA-3088	Teflon/Viton
	Ü		TA-4090	TA-4112	TA-4116	Viton
8	Gland	1	TB-0863	TB-0863	TB-0863	Forged Steel
9	Screw	4	61283P024	61283P024	61283P024	Steel Cad Pl
10	Flange	1_	TA-3083	TA-3083	TA-3083	Carbon Steel
* 11	Ball ¾"	2	TA-2539	TA-2539	TA-2539	Glass
* 12	Spring	1	61438P017	61438P017	61438P017	Hastelloy C
13	Adapter	2	TA-3081	TA-3081	TA-3081	PVC
14	O-ring	2	TA-3080	TA-3080	TA-3080	Viton
* 15	Seat		TB-0741	TB-0741	TB-0741	PVC
16	Bushing	2	TA-3076	TA-3076	TA-3076	PVC
17	Strap	2	TA-3078	TA-3078	TA-3078	Carbon Steel
18	Retainer	2	TA-3077	TA-3077	TA-3077	Carbon Steel
19	Nut	4	TA-3082	TA-3082	TA-3082	303 SS
* 20	O-ring	2	TA-3079	TA-3079	TA-3079	Viton
* 21	O-ring	2	TA-2580	TA-2580	TA-2580	Viton
22	Body	1	TB-0864	TB-0860	TB-0861	PVC
23	Gland	1	TA-3090	TA-3085	TA-3087	PVC
24	Drip Ring	1	TA-4095	TA-4095	TA-4095	Buna N
25	Yoke Cover	1	TC-1604	TC-1604	TC-1604	Plastic
26	Lock Nut	1	TA-0225	TA-0225	TA-0225	Brass
27	Belleville Washer	2	TA-4256	TA-4256	TA-4256	Carbon Steel
28	Plunger Pin	1	TA-0290	TA-0290	TA-0290	Carbon Steel

* Recommended spare parts

CAPACITY DATA: PLASTIC HEADS

TYPE HEAD	MAX DISCH. PSIG
Plunger 1/4" - 3/8" - 1/2" Only	500 All Available Sizes

Capacities are the same as standard plunger heads at equivalent plunger sizes. See CAPACITY DATA chart on page 2.