

S E R I E S

1200

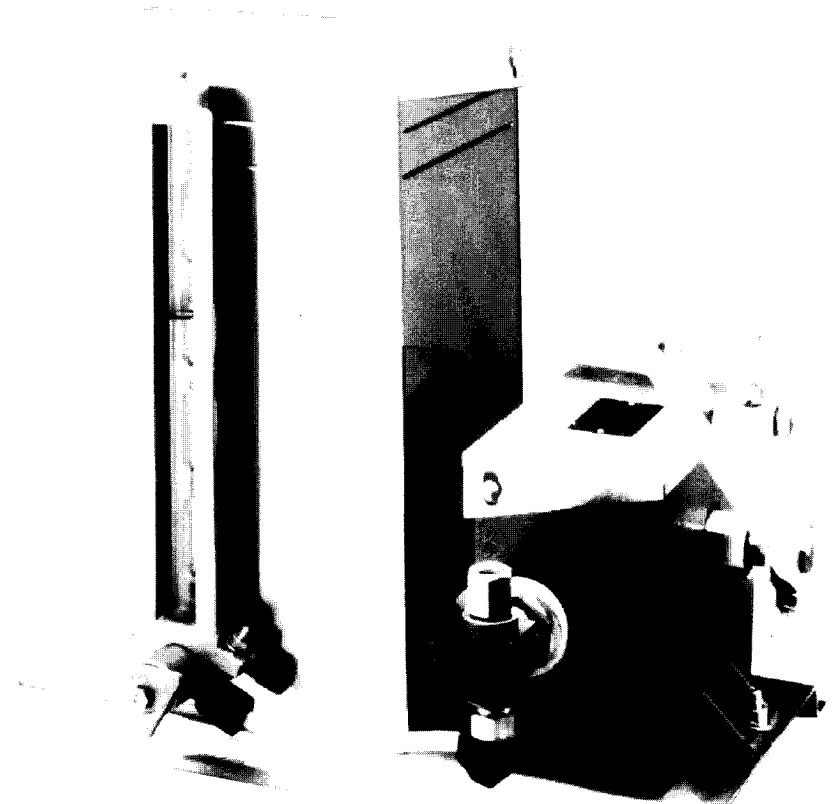
Beam Driven Chemical Injectors

Description

Designed specifically for operation on a beam pumped well, TXT 1200 Series Chemical Injectors are positive displacement type pumps powered by direct connection to the movement of a walking beam, rod line or rocker arm. The connection is made by a length of nominal pipe, or a wire line. The unit pumps on the upstroke of the beam action. On the downstroke, the injector arm returns to its set position. The ratchet mechanism is housed in a precision-bored, heavy cast gray iron case and is submerged in oil for long life.

Applications

- Injection of de-emulsifiers, solvents, corrosion inhibitors, scale inhibitors, lubricants and other chemicals
- High pressure bearing lubrication
- Pumping thin viscous fluids or non-abrasive slurries



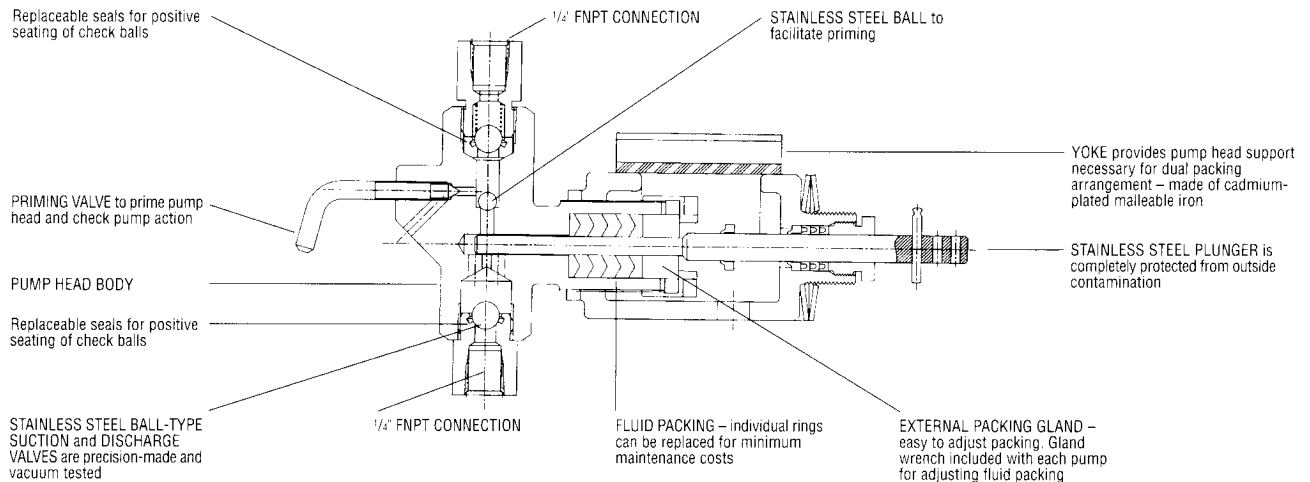
SERIES 1200 S
(For weights, see bottom
of pages 2 and 3)



S E R I E S 1 2 0 0

Pump Head & Box Assembly

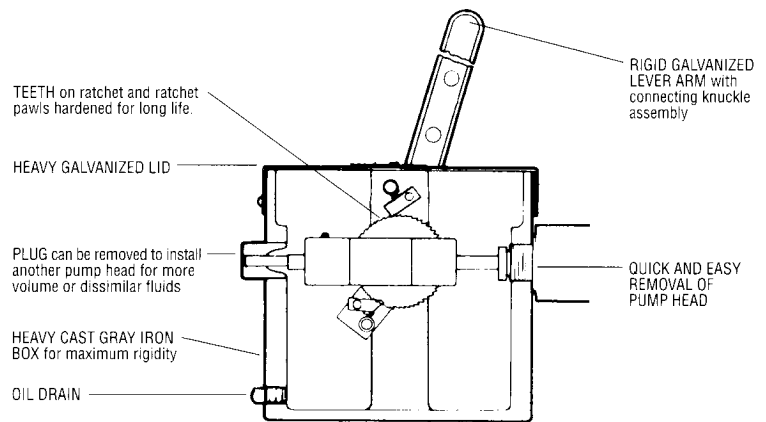
Outstanding Features – Chemical Injectors



The TXT Pump Head is efficient, (horizontal plunger and vertical check valves); virtually trouble-free; easy to maintain; stainless steel trim standard; built-in priming valve to aid in priming, checking pump action; external packing gland.

The box assembly is heavy cast gray iron for maximum rigidity, has a galvanized lid, and a rigid galvanized lever arm. The pump head can be easily removed for cleaning and maintenance. An additional pump head can be installed if more volume is required or if there is a need to pump dissimilar fluids.

A wide choice of models and plunger sizes are available. The Series 1200 can be supplied with chemical tanks, of various capacity, and materials to suit the operating requirements.



Models Available

| Description | Standard Model Number |
|-----------------------------------------|-----------------------|
| Single Pump Head & 2 Gallon SS Tank | 1200 EC |
| Single Pump Head & Single 5 Gallon Tank | 1200 S |
| Double Pump Head & Double 5 Gallon Tank | 1200 D |
| Single Pump Head (No Tank or Base) | 1200 SP |
| Double Pump Head (No Tank or Base) | 1200 DP |

Plunger Sizes:

Model numbers shown are equipped with 3/8" plunger size. Other sizes available are 1/16", 1/4", and 1/2"

Choice of Trim Material:

Standard - Ductile Iron Body with stainless steel trim
Optional - All Stainless Steel Head

Choice of Trim Material:

Teflon or Viton packing
Resilient seats (Standard on All Heads)
Hastelloy balls

Tanks, two, five and ten gallon capacity, 430 SS and 316 SS

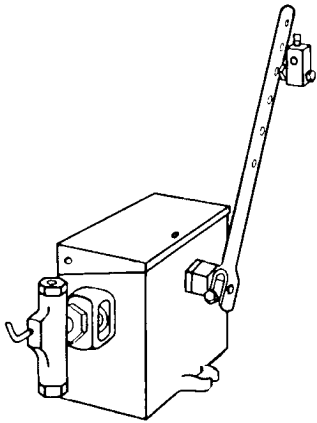
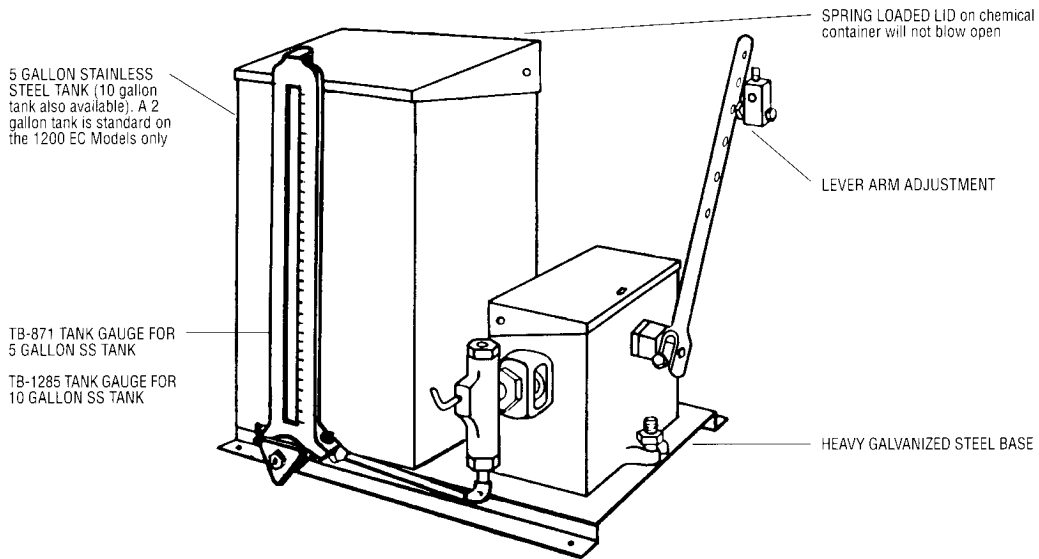
Model Designation

1203 DP 3/8"

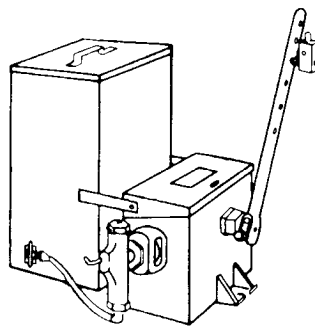
- Always specify plunger size when ordering to insure the correct size is ordered
- Indicates power unit model (without chemical tank). P indicates chemical injector model without tank
- Indicates number of injector heads (S is a single head, D is a double head unit, EC designates model with 2 gallon tank)
- Indicates plunger size (1 is 1/4", 3 is 3/8", 4 is 1/16", 5 is 1/2")
- Indicates standard unit

S E R I E S 1 2 0 0

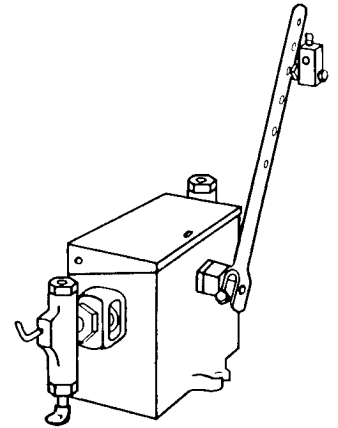
General Assembly



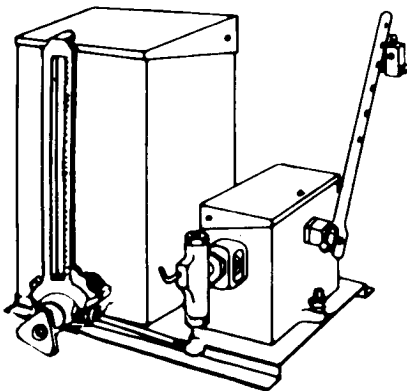
1200 SP
Shipping Weight: 26 lbs.



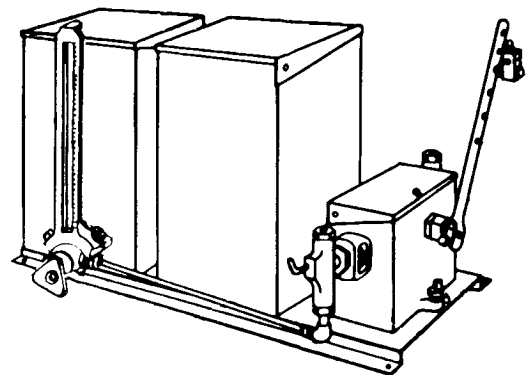
1200 EC
Shipping Weight: 32 lbs.



1200 DP
Shipping Weight: 30 lbs.



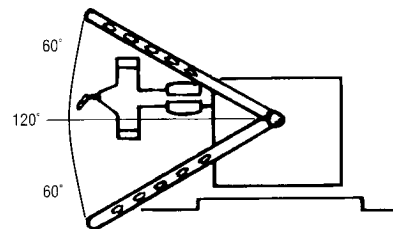
1200 S with SS Tank
Shipping Weight: 44 lbs.



1200 D
Shipping Weight: 57 lbs.

Installation and Operating Instructions

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 on page 6).
3. **Install Item 8** priming valve (included with pump, but shipped loose in carton) on the pump head.
4. **Connect the suction line to the 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 tank gauge valve.
 - b. If a power unit model was purchased, a strainer should be piped in to the suction line to prevent sand, rust or other particles which would damage the plunger and foul the check valves.
5. **Connect the discharge line** ($\frac{3}{16}$ " tubing will suffice). A check valve should be installed as close to the point of injection as possible. Note the arrow on the check valve indicates the flow. The top connection on the pump head is the outlet and has a $\frac{1}{4}$ " female pipe thread connection.
6. **Connect lever arm** to the power source as follows: (make sure the walking beam pump is turned off)
 - a. $\frac{3}{8}$ " OD rod or pipe (usually 10' to 12' is required for an oilfield walking beam pump). Attach a TA-700 TXT beam clamp (available from Texsteam) to the power source, such as a walking beam. Insert rod or pipe in the Item 42 beam clamp and Item 6 connecting knuckle on the lever arm, tighten set screws to secure position of rod or pipe.
 - b. Wire line. Simple attach to walking beam and Item 6 connecting knuckle.
7. **Fill the box assembly Item 25** with enough SAE-30 oil to cover the bearing Item 40. If low ambient temperatures are encountered a lighter oil such as SAE-10 should be used. Check oil level at regular intervals.
8. **Adjust for desired volume** by considering each of the following:
 - a. Number of strokes of lever arm. The fastest recommended operating speed is 50 strokes per minute. Refer to the volume chart to obtain desired setting of ratchet teeth engagement and stroke length at strokes minute used.
 - b. Number of ratchet teeth engaged per stroke is dependent upon the travel of the TB-67 lever. With the connecting knuckle Item 6 in the outermost position. (a lift travel of approximately 1" will engage one tooth, a maximum of 19" will engage twenty teeth).
 - c. Adjustment of stroke length from short, to medium or to long is easily accomplished by positioning of the TA-290 cotter pin in the end of the plunger.



When the lever arm cannot travel below the level of the bottom of the base, the maximum teeth engagement will be 10.

Maintenance Instructions for Series 1200 Beam Driven C

TO REMOVE TB-67 LEVER

Remove TA-414 lever bolt assembly. TB-67 lever can then be pulled free of TB-66 drive shaft assembly. Upon re-assembly, be sure TA-414 fits into the slot in the end of TB-66 drive shaft assembly.

TO REMOVE TA-536 CROSSHEAD

It is not necessary to remove the pump head from a single-headed unit in order to remove the crosshead if the following steps are taken.

1. Hand operate TB-67 lever until chemical plunger is at its full discharge position.
2. Pull TA-290 pin (disconnecting plunger from TA-536 crosshead).
3. Remove TA-434 guide plug assembly.
4. Hand operate TB-67 lever until fluid plunger is free of TA-536 crosshead. Lift out TA-536 crosshead. To remove TA-536

crosshead from double-headed unit it is necessary to remove one pump head from the gear box.

TO REMOVE TA-537 RATCHET SUB-ASSEMBLY

It is necessary to follow the procedure outlined under "To Remove TA-536 Crosshead" and "To Remove TB-67 Lever."

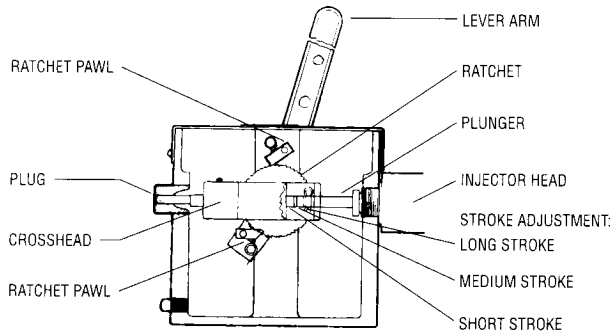
1. After crosshead is removed, TA-537 sub-assembly may be pulled toward center of gear box and lifted out.
2. To remove TA-457 bearing and TA-458 washer from TA-420 ratchet assembly, unscrew TA-433 bearing bolt.

To remove TB-66 drive shaft assembly, follow the procedure outlined above.

1. Unscrew the TA-5199 shaft bearing. TB-66 drive shaft assembly can then be lifted out through the gear box.

S E R I E S 1 2 0 0

Performance Data



A quick calculation of the preceding three factors (8a, 8b and 8c) and using the performance data chart can predetermine the injection rate before the pump is placed in operation. If more volume is required the pump head assembly can be changed or converted to a larger plunger size. Or, an additional head can be installed on the opposite side of the TB-91 box by removing the TA-434 guide plug assembly. The TA-883 guide sleeve should also be removed and this can be accomplished with a drift and hammer.

9. Start the pump and prime the fluid end by opening the priming valve. After the pump discharges clear fluid without bubbles, close the priming valve for normal operation. At this point make a visual check of the plunger 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."

If low volumes are required, 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.

Volume Output Table – Pints Per 24 Hours

| Strokes Min. | * Ratchet Teeth Engagement | 3/16" Plunger | | | 1/4" Plunger | | | 3/8" Plunger | | | 1/2" Plunger | | |
|--------------|----------------------------|---------------|---------------|-------------|--------------|---------------|-------------|--------------|---------------|-------------|--------------|---------------|-------------|
| | | Short Stroke | Medium Stroke | Long Stroke | Short Stroke | Medium Stroke | Long Stroke | Short Stroke | Medium Stroke | Long Stroke | Short Stroke | Medium Stroke | Long Stroke |
| 6 | 1 | .02 | .05 | .07 | .04 | .08 | .12 | .10 | .20 | .30 | .17 | .35 | .5 |
| 8 | 1 | .03 | .07 | .10 | .06 | .10 | .16 | .14 | .26 | .40 | .23 | .47 | .7 |
| 10 | 1 | .04 | .08 | .12 | .07 | .13 | .20 | .17 | .33 | .50 | .29 | .59 | .8 |
| 12 | 1 | .05 | .10 | .15 | .08 | .16 | .24 | .20 | .40 | .60 | .35 | .71 | 1.0 |
| 14 | 1 | .06 | .11 | .17 | .10 | .18 | .28 | .24 | .46 | .70 | .40 | .83 | 1.2 |
| 16 | 1 | .07 | .13 | .20 | .11 | .21 | .32 | .27 | .53 | .80 | .46 | .94 | 1.4 |
| 18 | 1 | .08 | .15 | .22 | .13 | .23 | .36 | .31 | .59 | .90 | .52 | 1.06 | 1.5 |

NOTES: * For volumes with additional ratchet teeth engaged, multiply these values by number of teeth engaged. 20 teeth maximum pickup. Minimum volumes are theoretical only.

Pressure-Volume Range Chart

NOTE* — For double-headed units increase maximum volume by two.

NOTE* — Series 1200 EC equipped with one head only.

| Plunger Size | Maximum Pressure | Model | Pint Per Day Volume | |
|--------------|------------------|-------|---------------------|------|
| | | | Max. | Min. |
| 3/16" | 3000# | 1204 | .5 | 4.4 |
| 1/4" | 1500# | 1201 | .5 | 7.2 |
| 3/8" | 1000# | 1203 | .5 | 18.0 |
| 1/2" | 500# | 1205 | 1.0 | 30.0 |

Chemical Injectors (Refer to parts list on page 6)

Installing TA-5200 shaft seal in TA-5199 shaft bearing.

The TA-5200 seal is pressed into the TA-5199 bearing. When done correctly the garter spring will not be visible on the assembly.

REPLACING RATCHET PAWLS TA-455 AND RATCHET PAWL SPRINGS TA-456

It is necessary to remove TA-537 ratchet sub-assembly.

TO REPACK FLUID PUMP HEAD

1. Disconnect chemical suction line.
2. Pull TA-290 pin.
3. Entire fluid head can now be unscrewed from gear box.
4. Loosen gland nut.

5. Pull chemical plunger from head.

6. Remove TA-4094 packing nut. This gives access to the yoke packing.

7. Loosen TA-225 lock nut. Yoke can then be unscrewed from fluid head (while unscrewing the yoke the gland nut must also be backed-off). At this point, wiper washer, gland nut and packing gland nut can be removed. This gives access to the main plunger packing.

TO CHECK DISCHARGE BALLS, SEATS & SPRINGS

Remove TA-1496 top bushing.

TO CHECK SUCTION BALL

Remove TB-736 bottom bushing (suction seat is integral part of TB-736 suction bushing).

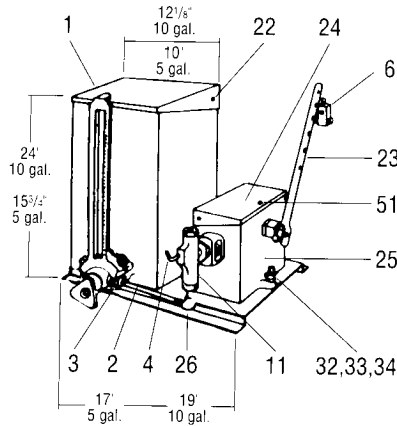
S E R I E S 1 2 0 0

Technical Data

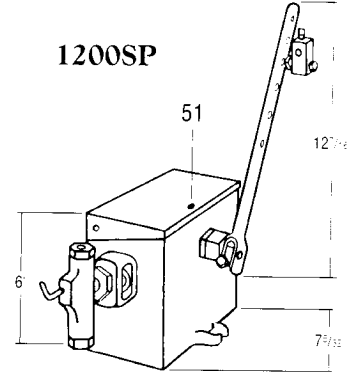
Parts List

| Item | Part No. | Name |
|------|----------|---------------------------------------------|
| 1 | TA-664 | Reservoir Assy. 5 gal. 430 SS |
| | TA-1539 | Reservoir Assy. 10 gal. 304 SS |
| | TA-2057 | Reservoir Assy. 5 gal. 316 SS |
| 2 | TA-3117 | Suction Line |
| 3 | TA-3118 | Connector Compression nut assy. |
| 4 | TA-1497 | Priming Valve |
| 5 | TB-0038 | Sight Feed Assembly |
| 6 | TA-0538 | Connecting Knuckle Assy. |
| 7 | TB-101 | Base for two 5-gal. SS tanks |
| 9 | TA-306 | Gasket |
| 10 | TA-302 | Strainer Bushing Assembly |
| 11 | -- | Head Assy. (see page 8 for parts breakdown) |
| 14 | TB-871 | Tank Gauge Assy. for 5 gal. SS Tank |
| | TB-1285 | Tank Gauge Assy. for 10 gal. SS Tank |
| 15 | TA-3120 | Suction Line |
| 16 | TA-3117 | Suction Line |
| 17 | TA-98 | Bowl |
| 18 | TA-206 | Strainer |
| 19 | TA-104 | Bowl Gasket |
| 20 | TB-39 | Slight Feed Body |
| 21 | TA-101 | Shut Off Assy. |
| 22 | TA-1842 | Cover Rod |
| | TA-1841 | Snap Ring (2 required) |
| 23 | TB-67 | Lever Arm |
| 24 | TA-960 | Lid |
| 25 | TA-91 | Box Assembly 1200 |
| 26 | TA-3116 | Elbow compression nut assy. |
| 27 | TA-677 | Outlet Body Brass |
| 28 | TA-391 | Spring |
| 29 | TA-54 | Ball |
| 30 | TA-479 | O-Ring Buna-N |
| | TA-2093 | O-Ring Viton |
| 31 | TA-678 | Inlet Body-Brass |
| 32 | TA-144 | Nut Qty. depends on location of usage. |
| 33 | TA-425 | Lock Washer Qty. dep. on loc. of usage. |
| 34 | TA-300 | Washer Qty. depends on location of usage. |
| 35 | TA-453 | Set Screw |
| 36 | TA-423 | Beam Clamp |
| 38 | TA-452 | Set Screw |
| 39 | TA-439 | Hex Nut |
| 40 | TA-409 | Connecting Knuckle |
| 41 | TA-438 | Cap Screw |
| 42 | TA-700 | Beam Clamp Assy. |
| 43 | TB-460 | 2-Gal. Tank (incl. cover) 430 SS |
| 44 | TB-456 | Cover |
| 45 | TA-246 | Elbow |
| 46 | TA-2579 | Shut-off Valve |
| 47 | TA-322 | Suction Line Assy. |
| 48 | TA-1748 | Locknut |
| 49 | TA-1747 | Strainer Bushing Assy. |
| 50 | TA-306 | Bushing Gasket |
| 51 | TA-2577 | LID Thumb Screw |

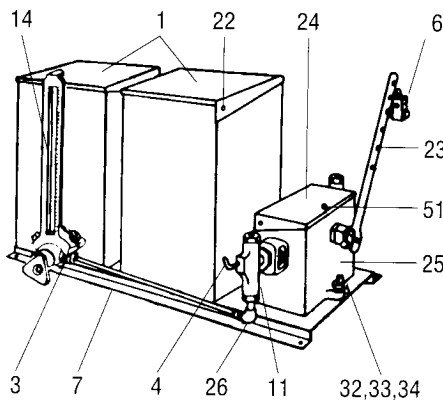
1200S
WITH 5 GALLON SS TANK



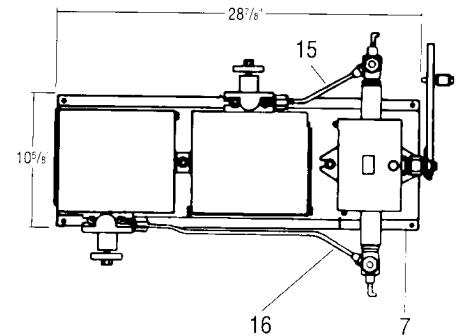
1200SP



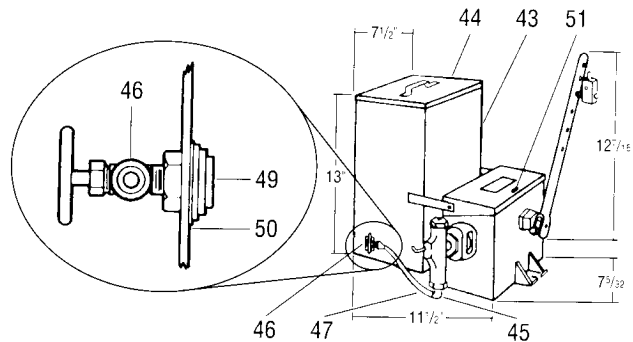
1200D



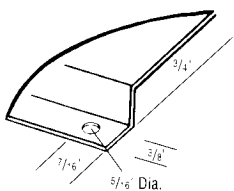
1200D
TOP VIEW



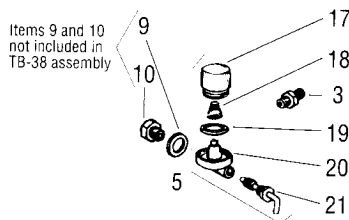
1200EC



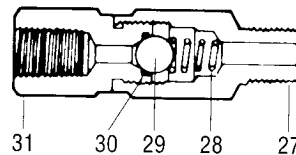
BASE PLATE
(Corner Detail)



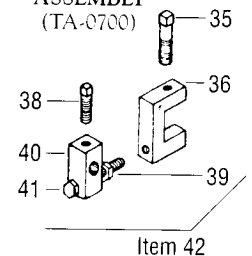
SIGHT FEED ASSEMBLY (TB-38)



BRASS LINE CHECK
(TA-676)

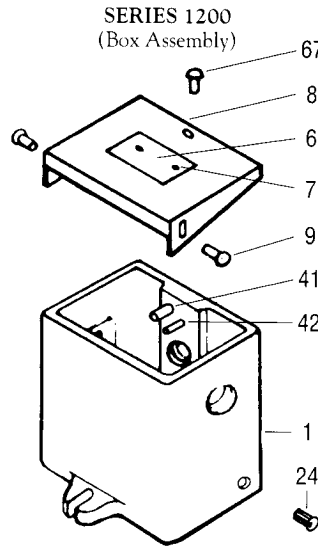
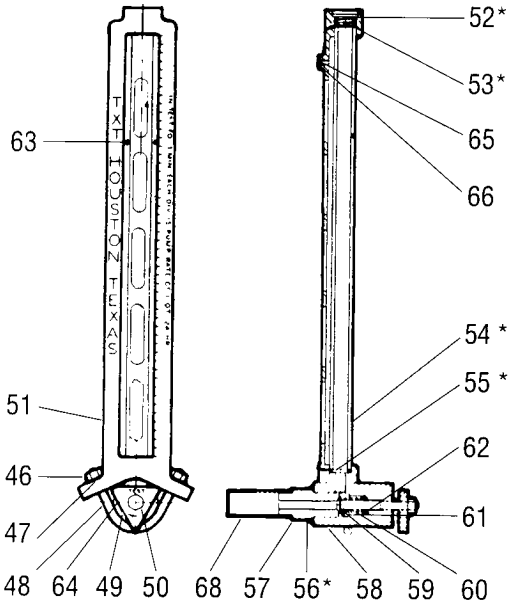


BEAM CLAMP ASSEMBLY
(TA-0700)

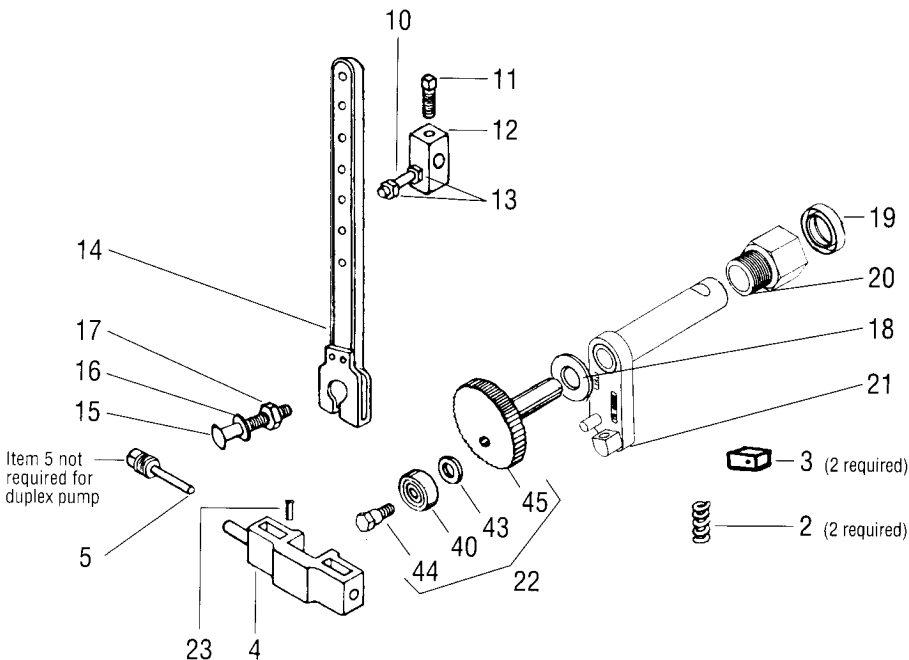


S E R I E S 1 2 0 0

**TANK GAUGE
(TB-871)
Assembly for five gallon SS tank**



* Supplied in a TB-0874 repair kit



Parts List

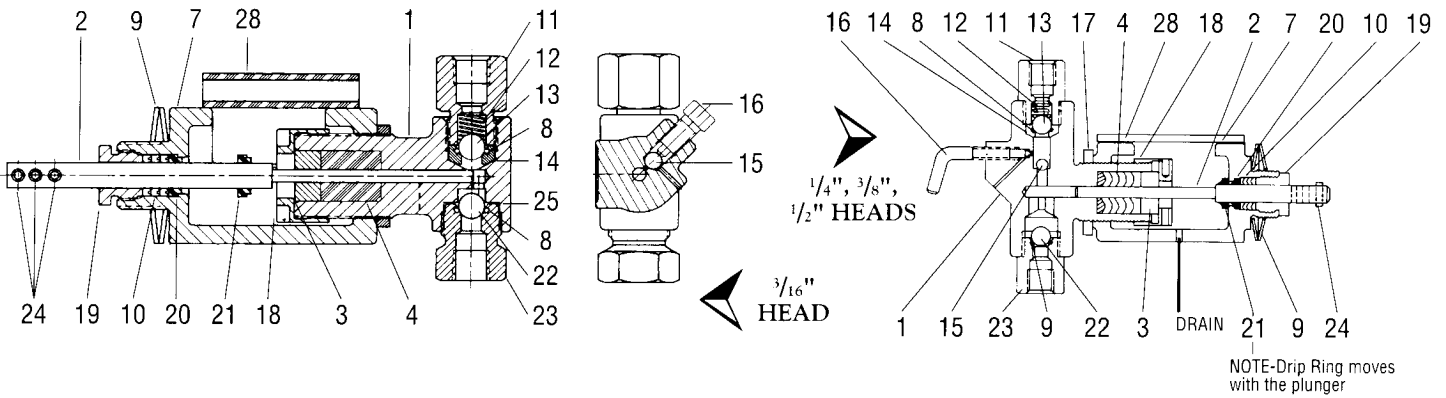
| Item | Part No. | Name |
|------|----------|-----------------------------------|
| 1 | TB-91 | Box Assembly |
| † 2 | TA-456 | Pawl Spring (2 reqd.) |
| † 3 | TA-455 | Pawl (2 reqd.) |
| 4 | TA-536 | Cross Head (Simplex) |
| | TA-451 | Cross Head (Duplex) |
| 5 | TA-434 | Guide Plug Assy. (Simplex only) |
| 6 | GA-3181 | Name Plate |
| 7 | TA-171 | Escutcheon Pin |
| 8 | TA-960 | Lid |
| 9 | TA-528 | Rivet |
| 10 | TA-438 | Cap Screw |
| 11 | TA-452 | Set Screw |
| 12 | TA-409 | Knuckle |
| 13 | TA-439 | Nut |
| 14 | TB-67 | Lever Arm |
| 15 | TA-424 | Lever Bolt |
| 16 | TA-425 | Lock Washer |
| 17 | TA-144 | Nut |
| 18 | TA-4251 | Nylon Washer |
| † 19 | TA-5200 | Seal |
| † 20 | TA-5199 | Shaft Bearing |
| † 21 | TB-66 | Drive Shaft |
| 22 | TA-537 | Ratchet Assy. |
| † 23 | TA-290 | Plunger Pin |
| 24 | TA-138 | Drain Plug |
| † 40 | TA-457 | Ratchet Bearing |
| 41 | TA-986 | Check Pawl Spring Shaft |
| 42 | TA-985 | Check Pawl Shaft |
| 43 | TA-458 | Cut Washer |
| 44 | TA-433 | Ratchet Bearing Bolt |
| 45 | TA-420 | Ratchet Sub Assembly |
| 46 | TA-164 | Nut |
| 47 | TA-577 | Washer |
| 48 | TA-3106 | U-Bolt |
| 49 | TA-3112 | Handle Valve |
| 50 | TA-164 | Nut |
| 51 | TC-393 | Frame |
| * 52 | TA-3100 | Spring (TB-874 Ga. Rep. Kit) |
| * 53 | TA-3101 | Flat Washer (TB-874 Ga. Rep. Kit) |
| * 54 | TA-3102 | Gauge Glass (TB-874 Ga. Rep. Kit) |
| * 55 | TA-2184 | O-Ring (TB-874 Ga. Rep. Kit) |
| * 56 | TA-3199 | O-Ring (TB-874 Ga. Rep. Kit) |
| 57 | TA-3104 | Retainer Nut |
| 58 | TA-3115 | Valve Body |
| 59 | TA-3114 | Stem Valve |
| 60 | TA-3113 | Spring |
| 61 | TA-3328 | Washer |
| 62 | TA-3107 | O-Ring |
| 63 | TA-2163 | O-Ring |
| 64 | TA-3329 | Plug |
| 65 | TA-167 | Washer |
| 66 | TA-166 | Screw |
| 67 | TA-2577 | Thumb Screw |
| 68 | TA-3103 | Strainer |

NOTES: † Recommended spare parts
* TB-874 Repair Kit parts

S E R I E S 1 2 0 0

Injector Heads

Parts List



| ITEM NO. | Plunger Size > | Material Construction | 3/16" | | 1/4" | | 3/8" | | 1/2" | |
|-------------------------------------------|----------------------------------------------------------|-----------------------|------------------------------------------|-------------------|---------------------|-------------------|---------------------|-------------------|---------------------|--|
| | | | All Stainless Steel (Ductile Not Avail.) | Ductile w/SS Trim | All Stainless Steel | Ductile w/SS Trim | All Stainless Steel | Ductile w/SS Trim | All Stainless Steel | |
| γ | HEAD ASSEMBLY NO. | | TC-2041 | TC-1578 | TC-1582 | TC-1579 | TC-1583 | TC-1580 | TC-1584 | |
| 1 | Body | | TC-2040 | TC-0275 | TC-0291 | TC-0276 | TC-0425 | TC-0272 | TB-0349 | |
| † 2 | Plunger | 17-4PH SS | TB-1471 | TB-1175 | TB-1175 | TB-1176 | TB-1176 | TB-1177 | TB-1177 | |
| 3 | Plunger Packing Gland | 303 SS | TA-5642 | TA-1463 | TA-1463 | TA-0957 | TA-0957 | TA-1219 | TA-1219 | |
| † 4 | Plunger Packing Set (Standard) | Buna-N | TA-3969 | TA-1461 | TA-1461 | TA-1456 | TA-1456 | TA-0959 | TA-0959 | |
| 7 | Yoke | Malleable Iron | TB-1173 | TB-1173 | TB-1173 | TB-1173 | TB-1173 | TB-1173 | TB-1173 | |
| 8 | O-Ring (included in item 23) | Buna-N | TA-0479 | TA-0479 | TA-0479 | TA-0479 | TA-0479 | TA-0479 | TA-0479 | |
| 9 | Belleville Washer (2 Reqd.) | C. Steel | TA-4256 | TA-4256 | TA-4256 | TA-4256 | TA-4256 | TA-4256 | TA-4256 | |
| † 10 | Yoke Packing Set | Buna-N | TA-4892 | TA-4127 | TA-4127 | TA-4127 | TA-4127 | TA-4127 | TA-4127 | |
| 11 | Top Busing | 302 SS | TA-1496 | TA-1496 | TA-1496 | TA-1496 | TA-1496 | TA-1496 | TA-1496 | |
| † 12 | Ball Check Spring | 316 SS | TA-0077 | TA-0077 | TA-0077 | TA-0077 | TA-0077 | TA-0077 | TA-0077 | |
| † 13 | Large Top Ball 1/4" | 316 SS | TA-0054 | TA-0054 | TA-0054 | TA-0054 | TA-0054 | TA-0054 | TA-0054 | |
| † 14 | Top Seat-Assv. w Buna-N "O" Ring | 303 SS | TA-0737 | TB-0737 | TB-0737 | TB-0737 | TB-0737 | TB-0737 | TB-0737 | |
| † 15 | Small Top Ball 1/4" | 316 SS | TA-0126 | TA-0126 | TA-0126 | TA-0126 | TA-0126 | TA-0126 | TA-0126 | |
| 16 | Priming Valve (Ball & Spring incl. 3/16") | 303 SS | TA-5462 | TA-1497 | TA-1497 | TA-1497 | TA-1497 | TA-1497 | TA-1497 | |
| 17 | Lock Nut Yoke | Brass | TA-0225 | TA-0225 | TA-0225 | TA-0225 | TA-0225 | TA-0225 | TA-0225 | |
| 18 | Nut, Plunger Packing Gland | 303 SS | TA-4104 | TA-4104 | TA-4104 | TA-4104 | TA-4104 | TA-4104 | TA-4104 | |
| 19 | Nut, Yoke Packing | Brass | TA-4094 | TA-4094 | TA-4094 | TA-4094 | TA-4094 | TA-4094 | TA-4094 | |
| † 20 | Wiper Ring, Plunger | Buna-N | TA-4095 | TA-4095 | TA-4095 | TA-4095 | TA-4095 | TA-4095 | TA-4095 | |
| 21 | Drip-Ring, Plunger | Buna-N | TA-4095 | TA-4095 | TA-4095 | TA-4095 | TA-4095 | TA-4095 | TA-4095 | |
| 22 | Ball, Suction 1/2" | 316 SS | TA-0054 | TA-0054 | TA-0054 | TA-0054 | TA-0054 | TA-0054 | TA-0054 | |
| † 23 | Bottom Seat (w/Buna-N "O" Ring) | 303 SS | TB-1216 | TB-0736 | TB-0736 | TB-0736 | TB-0736 | TB-0736 | TB-0736 | |
| 24 | Pin Plunger | Carbon Steel | TA-0290 | TA-0290 | TA-0290 | TA-0290 | TA-0290 | TA-0290 | TA-0290 | |
| 25 | Gasket | 304 SS | TA-4394 | | | Not applicable | | | | |
| † 26 | O-Ring | Buna-N | N/A | | | Not applicable | | | | |
| † 27 | O-Ring | Buna-N | N/A | | | Not applicable | | | | |
| 28 | Yoke Cover | Plastic | TC-1604 | TC-1604 | TC-1604 | TC-1604 | TC-1604 | TC-1604 | TC-1604 | |
| ALTERNATE PARTS FOR SEVERE SERVICE | | | | | | | | | | |
| † 4 | Plunger Packing | Viton | TA-3967 | TA-4102 | TA-4102 | TA-4101 | TA-4101 | TA-4103 | TA-4103 | |
| † 4 | Plunger Packing | Teflon | TA-3966 | TA-1642 | TA-1642 | TA-1234 | TA-1234 | TA-1012 | TA-1012 | |
| † 4 | Plunger Packing | Hard | TA-3948 | TA-2295 | TA-2295 | TA-1875 | TA-1875 | TA-1874 | TA-1874 | |
| † 8 | O-Ring | Viton | TA-2580 | TA-2580 | TA-2580 | TA-2580 | TA-2580 | TA-2580 | TA-2580 | |
| † 14 | Top Seat Assy (Metal-to-Metal) | 303 SS | N/A | TA-0806 | TA-0806 | TA-0806 | TA-0806 | TA-0806 | TA-0806 | |
| † 22 | Ball 1/2" Use w/TA-0771, Metal-to-Metal Bottom Seat Only | 316 SS | N/A | TA-0053 | TA-0053 | TA-0053 | TA-0053 | TA-0053 | TA-0053 | |
| † 23 | Bottom Seat (Metal-to-Metal) | 303 SS | N/A | TA-0771 | TA-0771 | TA-0771 | TA-0771 | TA-0771 | TA-0771 | |

NOTES: † Recommended Spare Parts



QUALITY & SERVICE SINCE 1954

FRED C. GILBERT CO.

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