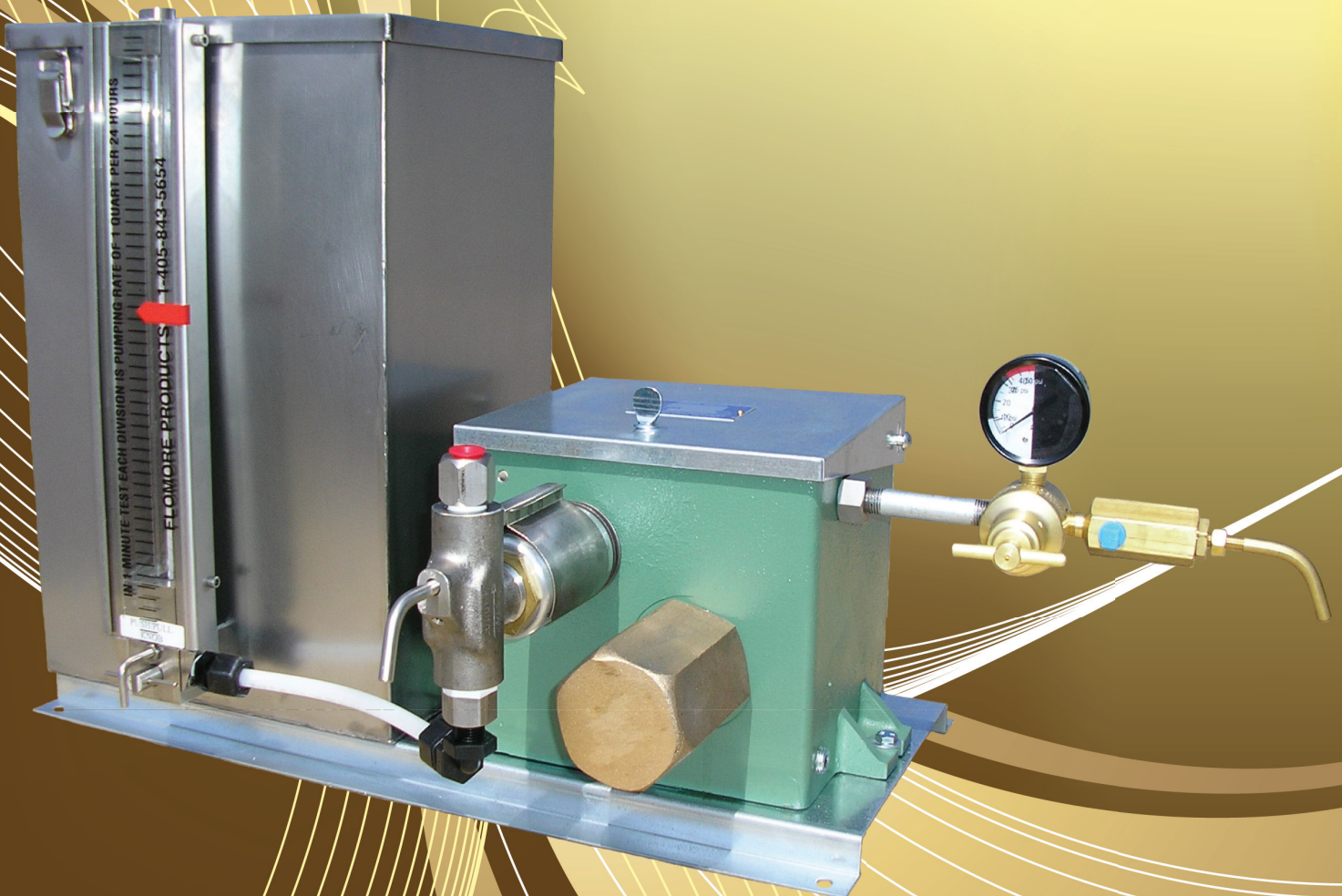


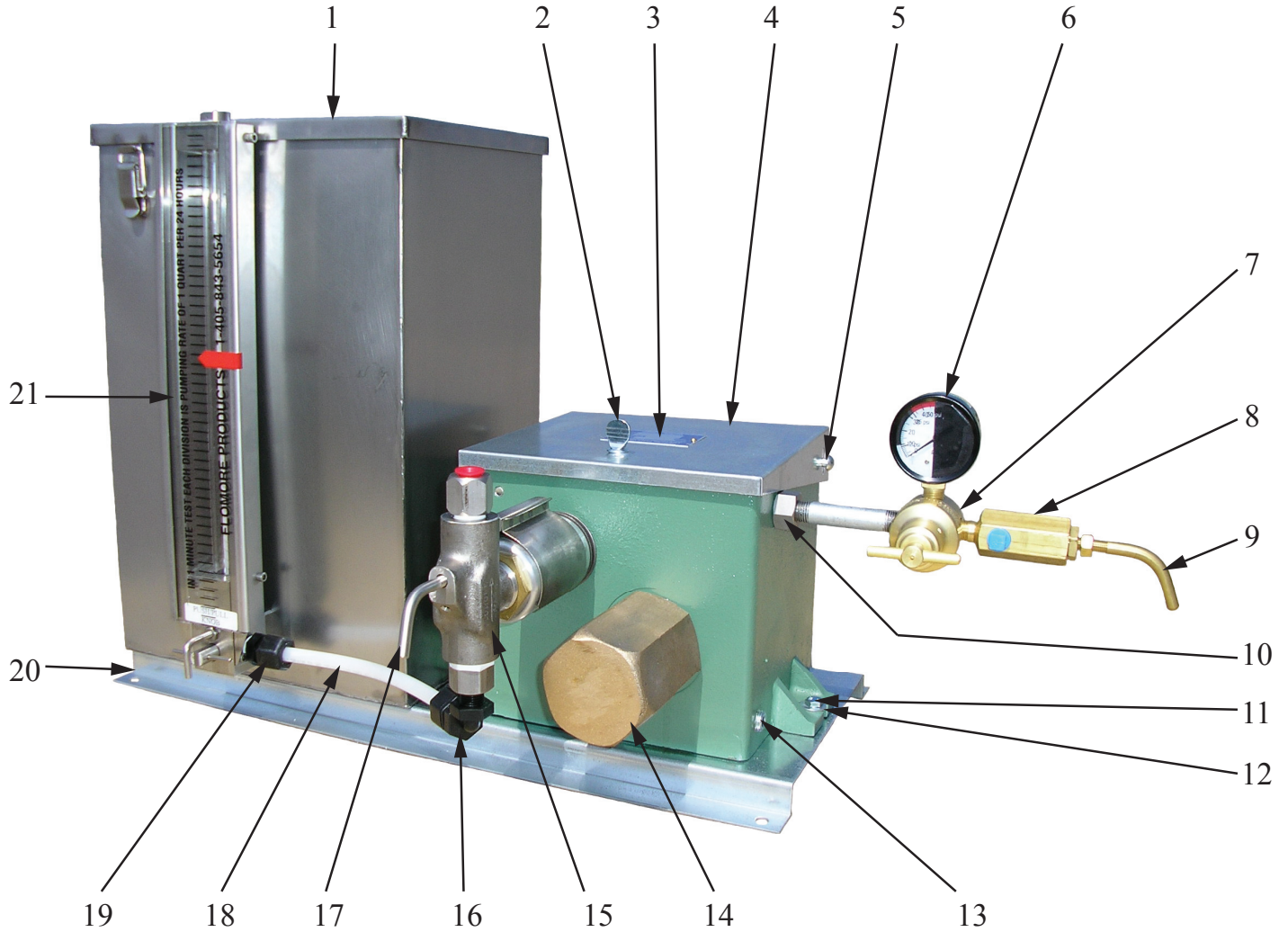
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Different By Design

3800 Series Injector



3800 Series Injector



Parts List

| Item # | Part # | # Reqd. | Description |
|--------|-----------|---------|--|
| 1 | A-0664 | 1 | 5 Gallon 430 Stainless Steel Reservoir |
| 2 | A-0575 | 1 | Thumb Screw |
| 3 | A-0172 | 1 | Nameplate |
| 4 | B-0206 | 1 | Injector Box Cover |
| 5 | A-0528 | 2 | Cover Rivets |
| 6 | A-1295 | 1 | Pressure Gauge 0-100 PSIG |
| 7 | B-0040.01 | 1 | Pressure Regulator |
| 8 | A-0193 | 1 | Needle Valve & Stem Assembly |
| 9 | A-0013 | 1 | Stem |
| 10 | A-0866 | 1 | Inlet Bushing |

| Item # | Part # | # Reqd. | Description |
|--------|------------|---------|----------------------------|
| 11 | A-0144 | 2 | Hex Nut |
| 12 | A-0142 | 1 | Hex Bolt |
| 13 | A-0138 | 2 | Drain Plug |
| 14 | A-0390 | 1 | Cylinder Shell |
| 15 | See Page 6 | 1 | Injector Heads |
| 16 | A-3116 | 1 | Elbow & Comp. Nut |
| 17 | A-1497 | 1 | Priming Valve |
| 18 | A-3117 | 1 | Supply Line |
| 19 | A-3118 | 1 | Connector Half & Comp. Nut |
| 20 | A-0584 | 1 | Single Tank Base |
| 21 | F-0871 | 1 | Model 2000 Tank Gauge |

3800 Series Components

A-0675 & A-0676 Line Check

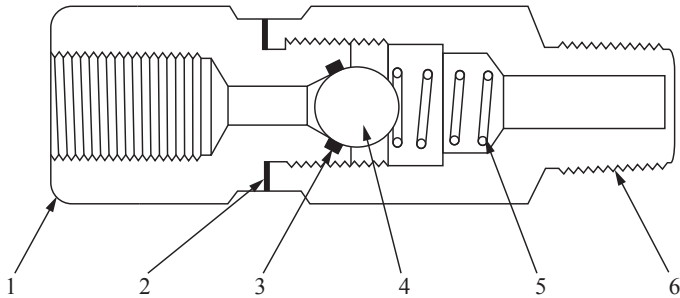
Parts List

| Item # | Part # | # Reqd. | Description | Material |
|--------|--------|---------|-------------|---------------------|
| 1 | A-0678 | 1 | Inlet Body | Brass |
| | A-1297 | 1 | Inlet Body | 303 Stainless Steel |
| 2 | A-1574 | 1 | Washer | 304 Stainless Steel |
| 3 | A-0479 | 1 | O'Ring | Buna-N |
| | A-2580 | 1 | O'Ring | Viton |
| 4 | A-0054 | 1 | 3/8" Ball | 316 Stainless Steel |
| 5 | A-0391 | 1 | Spring | Steel |
| 6 | A-0679 | 1 | Outlet Body | Brass |
| | A-1296 | 1 | Outlet Body | 303 Stainless Steel |

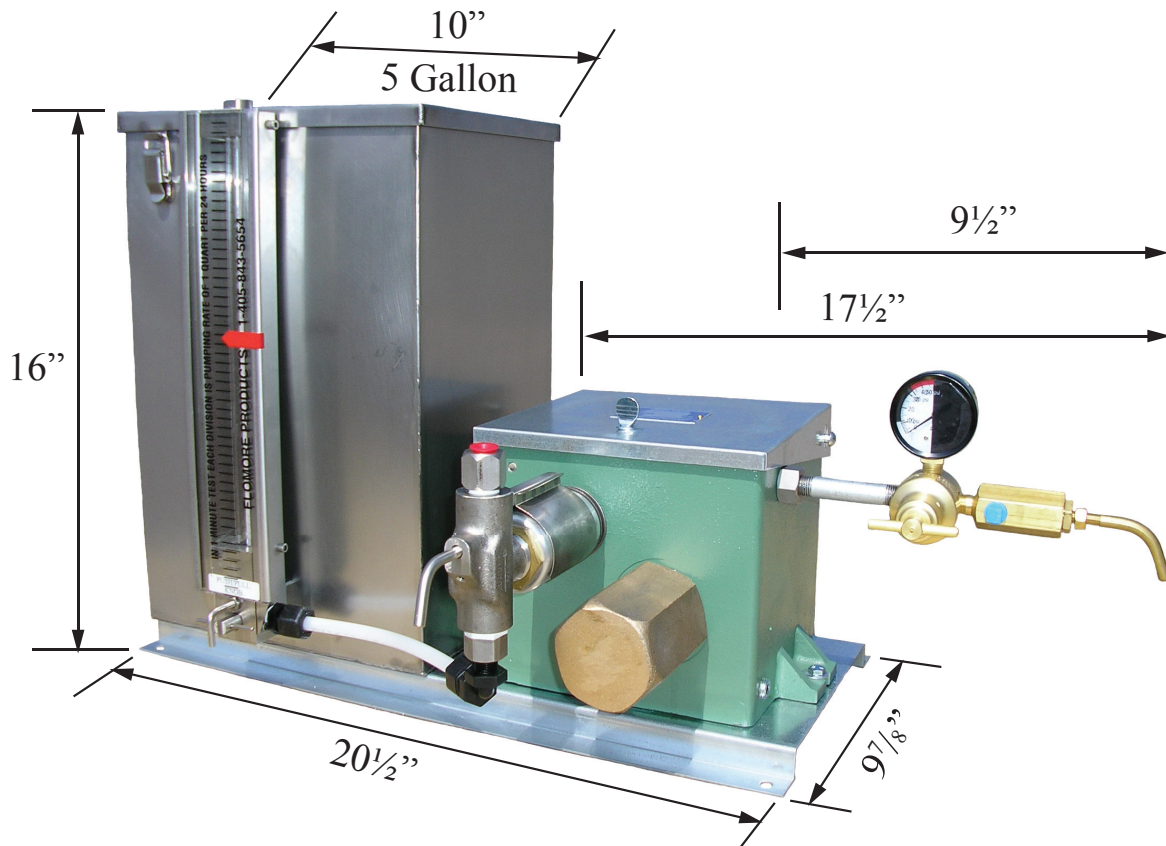
* Recommended Spare Parts

**A-0675 Only

***A-0676 Only

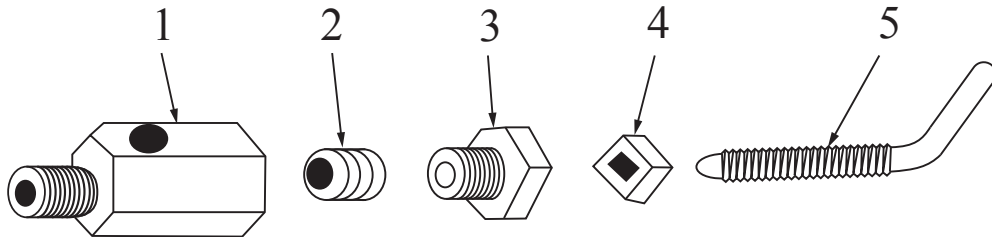


3800 Dimensions



3800 Series Components

A-0193 Needle Valve & Stem

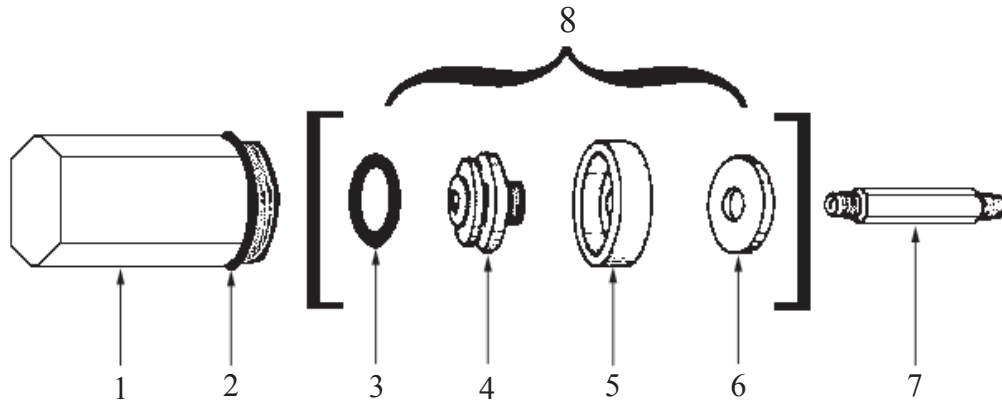


Parts List

| Item # | Part # | # Reqd. | Description | Material |
|--------|--------|---------|-------------------|----------|
| 1 | A-0010 | 1 | Needle Valve Body | Brass |
| 2 | A-0023 | 1 | Packing | Graphite |
| 3 | A-0011 | 1 | Gland Nut | Brass |
| 4 | A-0195 | 1 | Needle Valve Nut | Brass |
| 5 | A-0013 | 1 | Stem | Brass |

* Recommended Spare Parts

Cylinder & Piston



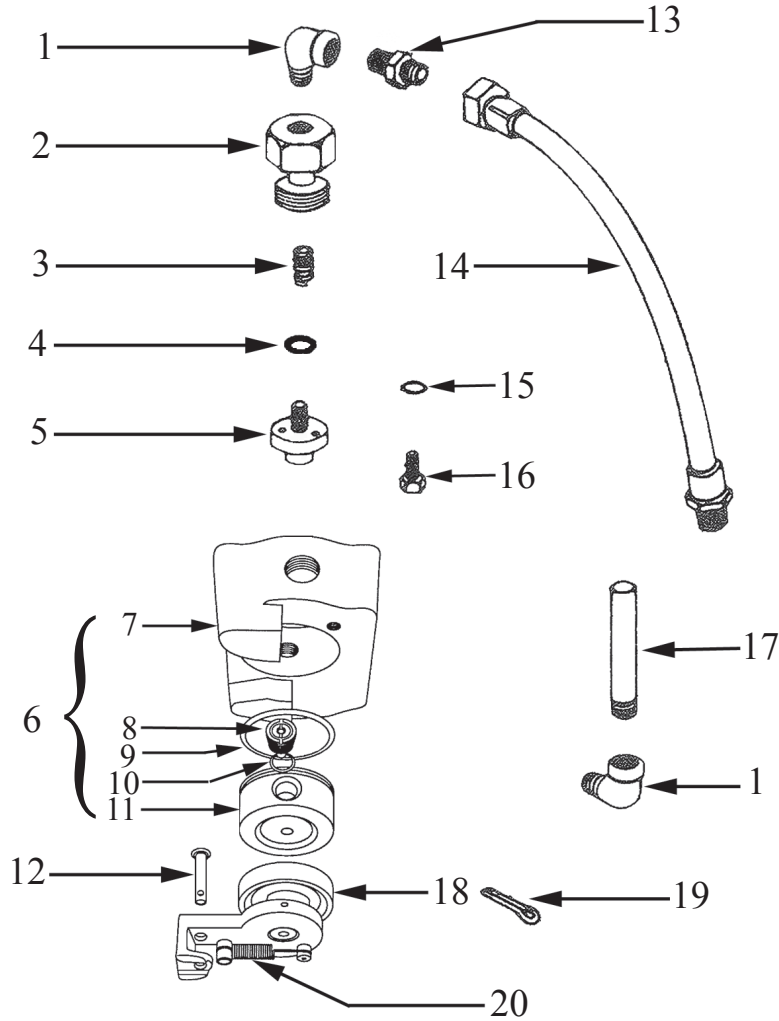
Parts List

| Item # | Part # | # Reqd. | Description | Material |
|--------|--------|---------|-----------------|----------|
| 1 | A-0390 | 1 | Cylinder Shell | Aluminum |
| 2 | A-2457 | 1 | O'Ring | Buna-N |
| 3 | A-0808 | 1 | Cup Spring | Steel |
| 4 | A-1211 | 1 | Cup Retainer | Aluminum |
| 5 | A-0867 | 1 | Piston Cup | Leather |
| 6 | A-0890 | 1 | Tapped Washer | Steel |
| 7 | A-0881 | 1 | Piston Rod | Steel |
| 8 | A-0597 | 1 | Piston Assembly | ♦ |

* Recommended Spare Parts

3800 Series Components

C-0107 Valve Assembly



Parts List

| Item # | Part # | # Reqd. | Description | Material |
|--------|-----------|---------|---------------------------|---------------------|
| 1 | A-0578 | 1 | Street Elbow | Galvanized Steel |
| 2 | C-0028.03 | 1 | Bushing | Steel |
| 3 | A-0077 | 1 | Spring | 316 Stainless Steel |
| 4 | A-0579 | 1 | Washer | Stainless Steel |
| 5 | A-4669 | 1 | Valve Disc & Pin Assembly | Steel |
| 6 | C-0028 | 1 | Pilot Valve Sub Assembly | ◆ |
| 7 | C-0028.02 | 1 | Pilot Valve Body | Ductile Iron |
| 8 | C-0463 | 2 | Seat Seal Screw | Steel |
| 9 | C-0485 | 1 | Seat Seal O'Ring | Buna-N |

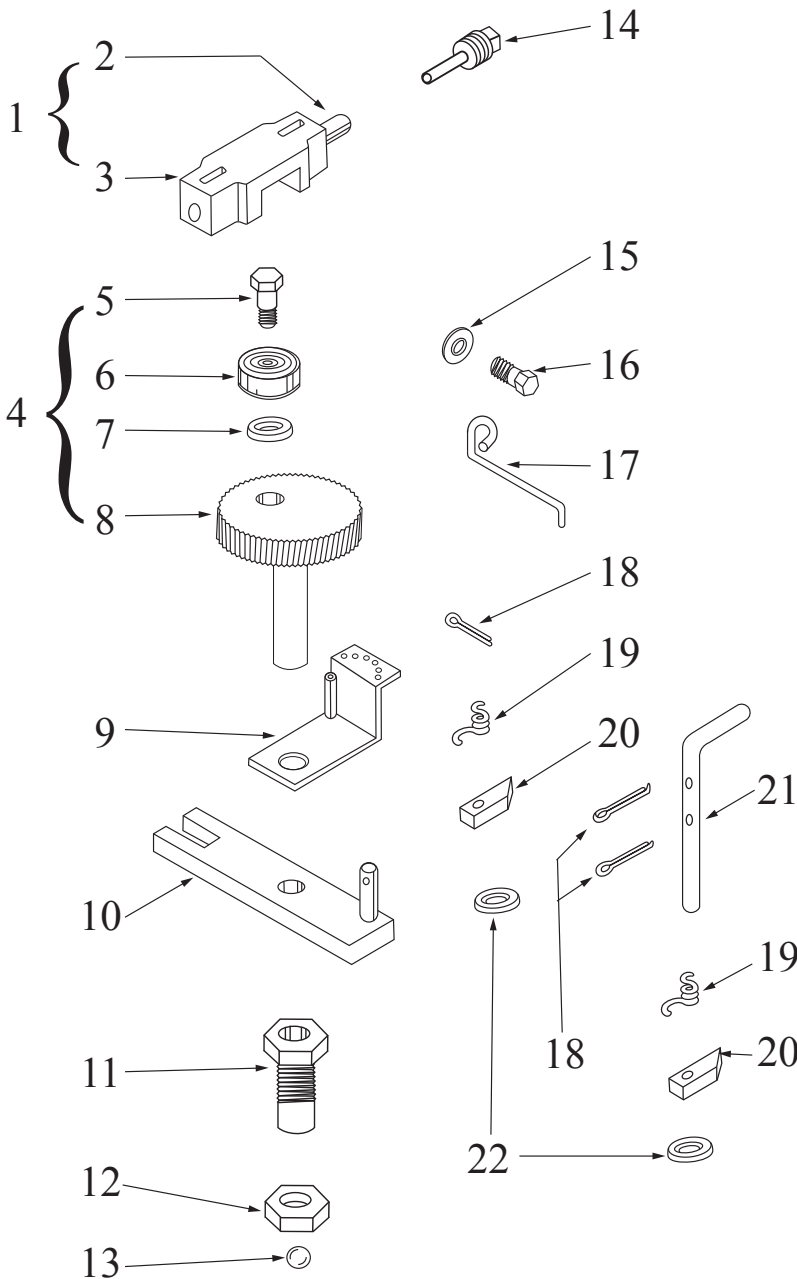
| Item # | Part # | # Reqd. | Description | Material |
|--------|-----------|---------|-------------------------|----------|
| 10 | C-0474 | 2 | Seat Seal Screw O'Ring | Buna-N |
| 11 | C-0028.04 | 1 | Valve Seat | Steel |
| 12 | A-0170 | 1 | Clevis Pin | Steel |
| *13 | A-0137 | 1 | Half Union | Brass |
| *14 | B-0047 | 1 | Gas Inlet Hose | ◆ |
| 15 | A-0167 | 1 | Washer | Steel |
| 16 | A-3387 | 1 | Cap Screw | Steel |
| 17 | A-0761 | 1 | Exhaust Nipple | Steel |
| 18 | A-0065 | 1 | Flipper Arm Assembly | ◆ |
| 19 | A-0168 | 1 | Cotter Pin | Steel |
| 20 | A-0508 | 1 | Flipper Spring Assembly | Steel |

* Recommended Spare Parts

* Items Sold Separately

3800 Series Components

Ratchet Drive



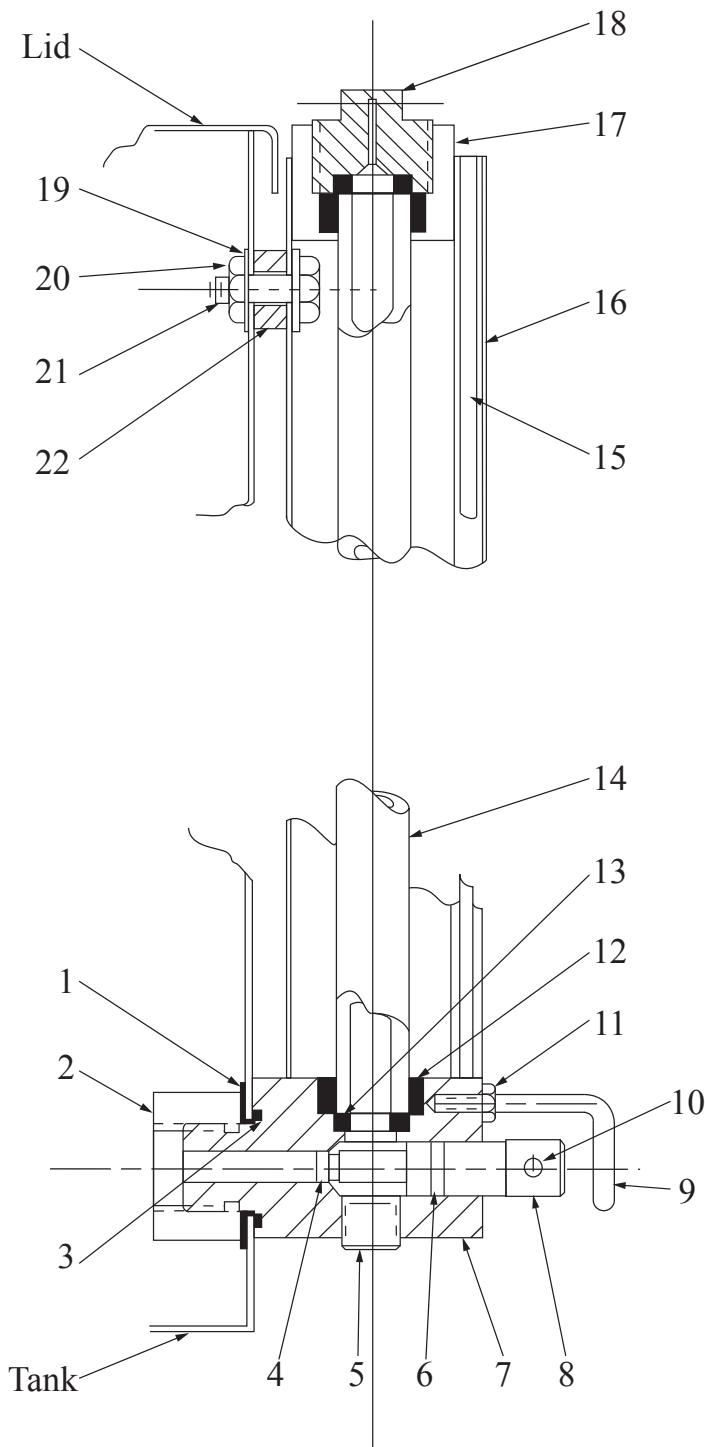
Parts List

| Item # | Part # | # Reqd. | Description | Material |
|--------|--------|---------|----------------------|---------------------|
| 1 | A-0585 | 1 | Cross Head Assembly | Steel |
| 2 | A-0883 | 1 | Guide Sleeve | Brass |
| 3 | A-0939 | 1 | Cross Head | Steel |
| 4 | A-0586 | 1 | Ratchet Sub-Assembly | Steel |
| 5 | A-0433 | 1 | Bearing Bolt | Steel |
| 6 | A-0457 | 1 | Ratchet Bearing | Steel |
| 7 | A-0458 | 1 | Washer | Steel |
| 8 | B-0139 | 1 | Ratchet Assembly | Steel |
| 9 | A-0948 | 1 | Ratchet Control | Steel |
| 10 | A-0312 | 1 | Cross Arm Assembly | Steel |
| 11 | A-0947 | 1 | Bearing Insert | Steel |
| 12 | A-0107 | 1 | Lock Nut | Brass |
| 13 | A-0126 | 1 | Ball | 316 Stainless Steel |
| 14 | A-0434 | 1 | Guide Plug Assembly | Brass & Steel |
| 15 | A-0167 | 1 | Washer | Steel |
| 16 | A-0574 | 1 | Latch Bolt | Steel |
| 17 | A-0949 | 1 | Ratchet Latch | Steel |
| 18 | A-2598 | 1 | Cotter Pin | Steel |
| 19 | A-0955 | 1 | Pawl Spring | Steel |
| 20 | A-0455 | 1 | Ratchet Pawl | Heat Treated Steel |
| 21 | A-0956 | 1 | Check Pawl Stud | Steel |
| 22 | A-0577 | 1 | Washer | Steel |

* Recommended Spare Parts

3800 Series Components

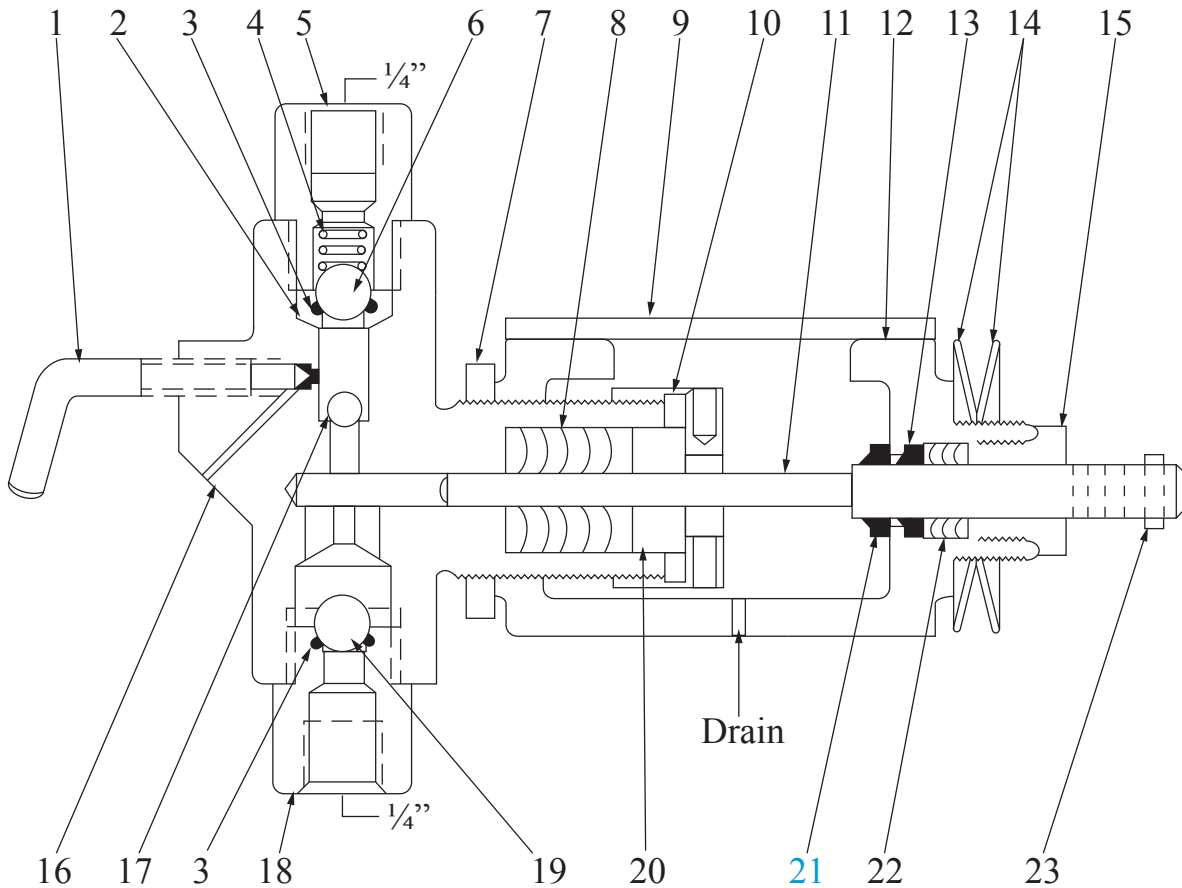
F-0871 Tank Gauge



Parts List

| Item # | Part # | # Reqd. | Description | Material |
|--------|-----------|---------|------------------|-----------------|
| 1 | A-0306 | 1 | Washer | Teflon |
| 2 | F-0871.01 | 1 | ¾-16" Nut | Stainless Steel |
| 3 | F-0871.03 | 1 | 2-019 O'Ring | Viton |
| 4 | F-0871.04 | 1 | 2-006 O'Ring | Viton |
| 5 | A-0138 | 2 | ¼" NPT Pipe Plug | Steel |
| 6 | F-0871.06 | 1 | 2-011 O'Ring | Viton |
| 7 | F-0871.07 | 1 | Valve Body | Stainless Steel |
| 8 | F-0871.08 | 1 | Valve Stem | Stainless Steel |
| 9 | F-0871.11 | 1 | Valve Stop | Stainless Steel |
| 10 | F-0871.09 | 1 | ⅛" x 2" Roll Pin | Stainless Steel |
| 11 | F-0871.10 | 1 | Valve Stop Nut | Stainless Steel |
| 12 | 15470 | 2 | Tube Gasket | Buna-N |
| 13 | D-0013 | 2 | Tube End Seal | Viton |
| 14 | A-3102 | 1 | Glass Tube | Glass |
| 15 | F-0871.15 | 1 | Scale | Acrylic |
| 16 | F-0871.16 | 1 | Housing | Stainless Steel |
| 17 | F-0871.17 | 1 | Top Block | Aluminum |
| 18 | F-0871.18 | 1 | Vent Plug | Stainless Steel |
| 19 | A-4092 | 2 | Stat-O-Seal | Steel |
| 20 | F-0871.20 | 1 | ¼-20" Nut | Stainless Steel |
| 21 | F-0871.21 | 1 | ¼-20" x ¾" Bolt | Stainless Steel |
| 22 | A-0987 | 1 | Spacer | Stainless Steel |

Injector Heads



Note: Drip Ring moves with the Plunger.

Alternate Construction

| Item # | Part # | Description | Material |
|--------|----------|---------------------------------------|---------------------|
| 2 | A-0806 | Top Seat Assembly (Metal-to-Metal) | 303 Stainless Steel |
| | A-0843 | Top Seat with Viton O'Ring | |
| 3 | A-2580 | O'Ring | Viton |
| 8 | A-4102 | 1/4" Plunger Packing | Viton |
| | A-1642 | | Teflon |
| | A-2295 | | Hard |
| | A-4101 | 3/8" Plunger Packing | Viton |
| | A-1234 | | Teflon |
| | A-1875 | | Hard |
| | A-4103 | 1/2" Plunger Packing | Viton |
| | A-1012 | | Teflon |
| A-1874 | Hard | | |
| 11 | B-1175-C | 1/4" Ceramic Plunger | ♦ |
| | B-1176-C | 3/8" Ceramic Plunger | |
| | B-1177-C | 1/2" Ceramic Plunger | |
| 18 | A-0771 | Bottom Seat Assembly (Metal-to-Metal) | 303 Stainless Steel |
| | B-0844 | Bottom Seat Assy. (Viton) | |
| 19 | A-0053 | 1/2" Ball | 316 Stainless Steel |

Injector Heads

Parts List

| Item # | Part # | | | # Req'd. | Description | Material |
|--------|--------|--------|--------|----------|----------------------------|--|
| | 1/4" | 3/8" | 1/2" | | | |
| ♦ | C-1578 | C-1579 | C-1580 | 1 | Head Assembly | Ductile Iron with Stainless Steel Trim |
| | C-1582 | C-1583 | C-1584 | | | All Stainless Steel |
| 1 | A-1497 | | | 1 | Priming Valve | 303 Stainless Steel |
| *2 | B-0737 | | | 1 | Top Seat Assembly-Buna | 303 Stainless Steel |
| *3 | A-0479 | | | 1 | O'Ring | Buna-N |
| 4 | A-0077 | | | 1 | Ball Check Spring | 316 Stainless Steel |
| 5 | A-1496 | | | 1 | Top Bushing | 302 Stainless Steel |
| 6 | A-0054 | | | 1 | 3/8" Large Top Ball | 316 Stainless Steel |
| 7 | A-0225 | | | 1 | Yoke Lock Nut | Brass |
| *8 | A-1461 | A-1456 | A-0959 | 1 | Plunger Packing Set | Buna-N |
| 9 | C-1604 | | | 1 | Yoke Cover | 303 Stainless Steel |
| 10 | A-4104 | | | 1 | Plunger Packing Gland Nut | 303 Stainless Steel |
| *11 | B-1175 | B-1176 | B-1177 | 1 | Plunger | 17-4 pH Stainless Steel |
| 12 | B-1173 | | | 1 | Yoke | Malleable Iron |
| 13 | A-4095 | | | 1 | Plunger Wiper Ring | Buna-N |
| 14 | A-4256 | | | 2 | Belleville Washer | 302 Stainless Steel |
| 15 | A-4094 | | | 1 | Yoke Packing Nut | Brass |
| 16 | C-0275 | C-0276 | C-0272 | 1 | Body | Ductile Iron |
| | C-0291 | C-0425 | C-0349 | | | Stainless Steel |
| 17 | A-0126 | | | 1 | 1/4" Small Top Ball | 316 Stainless Steel |
| *18 | B-0736 | | | 1 | Bottom Seat Assembly- Buna | 303 Stainless Steel |
| *19 | A-0054 | | | 1 | 3/8" Suction Ball | 316 Stainless Steel |
| 20 | A-1463 | A-0957 | A-1219 | 1 | Plunger Packing Gland | 303 Stainless Steel |
| 21 | A-4095 | | | 1 | Plunger Drip Ring | Buna-N |
| 22 | A-4127 | | | 1 | Yoke Packing Set | Buna-N |
| 23 | A-0290 | | | 1 | Pin Plunger | Carbon Steel |

*Recommended Spare Parts

*Alternate Components Available (see table above)

Plastic Injector Heads



Parts List

Item numbers below correspond with drawing on page 8.

| Item # | Part # | | | # Req'd. | Description | Material |
|--------|----------|-----------|-----------|----------|---------------------------|---------------------|
| | 1/4" | 3/8" | 1/2" | | | |
| --- | C-1570 | C-1571 | C-1572 | 1 | Head Assembly | PVC |
| 1 | | A-1497PVC | | 1 | Priming Valve | PVC |
| 2 | | B-0737PVC | | 1 | Top Seat Assembly | PVC |
| 3 | | A-2580 | | 1 | O'Ring | Viton |
| 4 | | A-0077 | | 1 | Ball Check Spring | 316 Stainless Steel |
| 5 | | A-1496PVC | | 1 | Top Bushing | PVC |
| 6 | | A-0054.01 | | 1 | 3/8" Large Top Ball | Ceramic |
| 7 | | A-0225 | | 1 | Yoke Lock Nut | Brass |
| 8 | A-2701 | A-2801 | A-2901.01 | 1 | Plunger Packing Set | Buna-N |
| 9 | | C-1604 | | 1 | Yoke Cover | 303 Stainless Steel |
| 10 | | A-4104PVC | | 1 | Plunger Packing Gland Nut | PVC |
| 11 | B-1175-C | B-1176-C | B-1177-C | 1 | Plunger | Ceramic |
| 12 | | B-1170 | | 1 | Yoke | PVC |
| 13 | | A-4095 | | 1 | Plunger Wiper Ring | Buna-N |
| 14 | | A-4256 | | 2 | Belleville Washer | 302 Stainless Steel |
| 15 | | A-4104PVC | | 1 | Yoke Packing Nut | PVC |
| 16 | C-0271 | C-0273 | C-0274 | 1 | Body | PVC |
| 17 | | A-0126.01 | | 1 | 1/4" Small Top Ball | Ceramic |
| 18 | | B-0736PVC | | 1 | Bottom Seat | PVC |
| 19 | | A-0054.01 | | 1 | 3/8" Suction Ball | Ceramic |
| 20 | A-2702 | A-2802 | A-2902 | 1 | Plunger Packing Gland | 303 Stainless Steel |
| 21 | | A-4095 | | 1 | Plunger Drip Ring | Buna-N |
| 22 | | A-4127 | | 1 | Yoke Packing Set | Buna-N |
| 23 | | A-0290 | | 1 | Pin Plunger | Carbon Steel |

*Recommended Spare Parts

Performance Data

Volume Output

*NOTE: Multiply volume by number of ratchet teeth engaged. Maximum number of teeth is six.

| Cycles Per Min. Air Motor | *Ratchet Teeth Engaged | ¼" Plunger | | | ⅜" Plunger | | | ½" Plunger | | |
|---------------------------------|------------------------------|-----------------|------------------|----------------|-----------------|------------------|----------------|-----------------|------------------|----------------|
| | | Short Stroke | Medium Stroke | Long Stroke | Short Stroke | Medium Stroke | Long Stroke | Short Stroke | Medium Stroke | Long Stroke |
| 10 | 1 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| 20 | 2 | ◆ | ◆ | ◆ | 0.5 | 0.7 | 1.0 | 1.0 | 1.5 | 2.0 |
| 40 | 1 | ◆ | ◆ | ◆ | 0.8 | 1.5 | 3.0 | 1.2 | 3.0 | 5.3 |
| 60 | 1 | 0.5 | 1.0 | 1.8 | 1.1 | 2.6 | 4.5 | 2.3 | 5.0 | 8.2 |
| 80 | 1 | 0.7 | 1.4 | 2.6 | 1.7 | 3.7 | 6.0 | 3.2 | 6.7 | 10.5 |
| 100 | 1 | 1.0 | 2.0 | 3.4 | 2.3 | 4.8 | 7.7 | 4.3 | 8.7 | 14.0 |

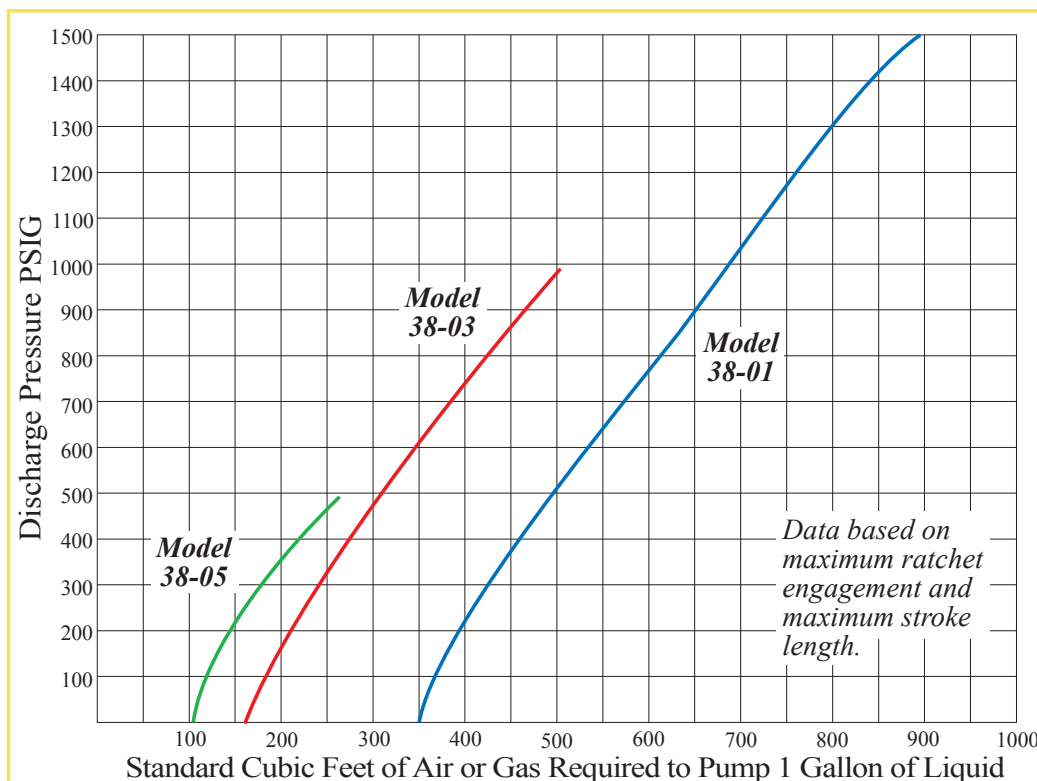
Volume in Pints per Day

Pressure Volume Range

*NOTE: For double headed units, increase maximum volume by two.

| Plunger Size | Maximum Discharge Pressure | Model # | Pints per Day | |
|-----------------|----------------------------------|---------|-------------------|-------------------|
| | | | Minimum Volume | Maximum Volume |
| ¼" | 1500 | 38-01 | 0.5 | 16 |
| ⅜" | 1000 | 38-03 | 0.5 | 40 |
| ½" | 500 | 38-05 | 1.0 | 70 |

Air/Gas Consumption



Volume Adjustment

Volume Adjustment

There are three principal adjustments involved in controlling injector volumes on the 3800 Series chemical injector. They are pointed out in the diagram at the right under the headings of Adjustments A, B and C.

Adjustment A:

1. Gas valve to control speed or number of strokes per minute of motor.

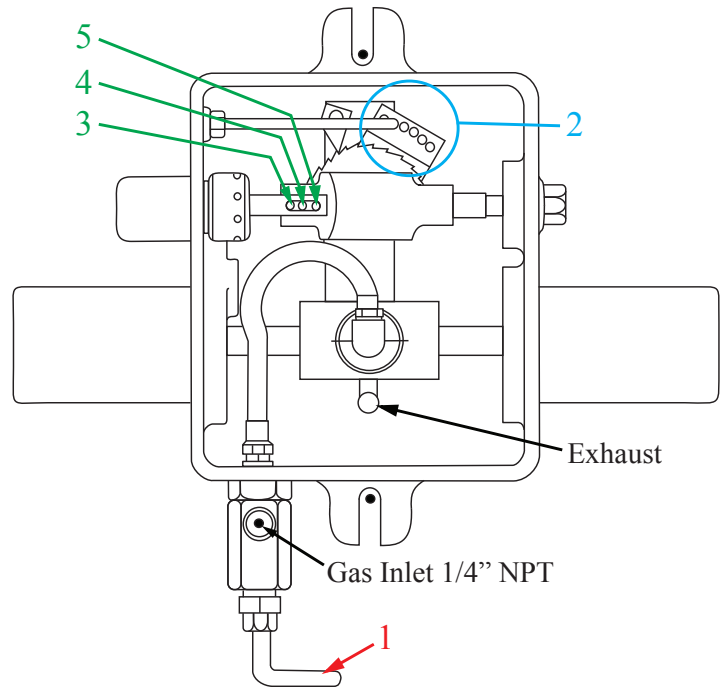
Adjustment B:

2. Ratchet control determines number of teeth drive pawl will engage each stroke of motor. Place ratchet latch A-0949 in the hole on the left to engage maximum number of teeth to pump maximum volume.

Adjustment C:

3. First position, long stroke (most volume).
4. Second position, medium stroke.
5. Third position, short stroke (least volume).

For maximum efficiency at any desired discharge rate, make adjustments in order **A-B-C**.



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 a claim with the carrier.
2. Bolt holes are provided for a permanent mounting (see drawing for dimensions on page 3).
3. Install the A-1497 priming valve (included with pump, but shipped loose in carton) on the pump head.
4. 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 B-0871 shut-off assembly. A strainer is furnished as a part of this unit.
 - b. If a power unit model was purchased, a strainer should be piped into the suction line to prevent sand, rust or other particles which will injure the plunger and foul the check valves.
5. Connect the discharge line (5/16" copper tubing will suffice). An A-0676 1/4" brass line check is provided with most models. This valve should be installed as close to the point of injection as possible. Note the arrow on the check valve indicating the direction of flow. The top connection on the pump head is the outlet and has a 1/4" female pipe thread connection.
6. Connect the power gas line.
 - a. First blow power gas line clean to remove any loose rust particles, slag, sand, etc.
 - b. Consider the pressure requirements of the pump. If the gas supply exceeds 50 PSI (consider erratic pressures), the pump should be equipped with a regulator to reduce the gas pressure to 50 PSI or below. The B-0040 regulator is capable of handling upstream pressures to 1500 PSI.
 - c. Tie-in the gas line to the A-0193 needle valve or A-0866 inlet bushing.
7. Fill the A-0583 box assembly with enough SAE-30 oil to cover the A-0457 bearing (approximately 6 1/4 pts.) If low ambient temperatures are encountered, a lighter oil such as SAE-10 should be used. Check oil level at regular intervals with A-0946 oil gauge stick.
8. Adjust for desired volumes by considering Performance Data (page 11 & 12). 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 A-0583 box assembly by removing the A-0434 guide plug assembly. The A-0883 guide sleeve should also be removed and this can be accomplished with a drift and hammer.
9. Start the pump by slowly opening the A-0193 needle valve. Prime the pump head by opening the A-1497 priming valve. After the pump discharges clear fluid without bubbles, close the priming valve for normal operations. At this point make a visual check of the plunger drip, and using the A-0315 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. Do not tighten with pressure on head.** Keep A-0315 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 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 A-1497 priming valve.

Maintenance Instructions

To Inspect or Replace Power Cylinder or Piston Parts

Shut off the power gas pressure. Unscrew A-0390 cylinder shell. This will expose A-0597 piston assembly and A-0881 piston rod. To replace piston cup A-0867 or tapped washer A-0890, unscrew A-1211 piston cup retainer. A-0881 piston rod is hex material and is easily removed from C-0028 valve body.

To Inspect Pump Head Parts

Suction and discharge balls and seats can be inspected or replaced without removing pump head from the power unit. To do this it is necessary to disconnect suction and discharge lines at the head and unscrew A-1496 top bushing and B-0736 bottom bushing.

To Remove Pump Head From Gear Box

1. Disconnect suction and discharge line.
2. Pull A-0290 pin.
3. Entire fluid head can now be unscrewed from gear box.
4. Loosen gland nut.
5. Pull chemical plunger from head.
6. Remove A-0810 packing nut. This gives access to the yoke packing.
7. Loosen A-0225 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 Replace A-0065 Flipper Arm Assembly and Bearing

Remove both A-0166 cap screws and S-0167 washer from the underside of C-0028 valve body. To remove A-0947 bearing insert, loosen A-0107 lock nut. A-0126 valve ball should be inspected and replaced if necessary.

To Inspect or Replace A-0457 Ratchet Bearing

1. First remove A-0434 guide plug assembly.
2. Then remove the pump head from the gear box (in case of double headed pumps, both heads should be removed).
3. A-0585 cross head assembly can then be lifted out. A-0457 ratches bearing and A-0458 washer can now be inspected or replaced by removing A-0433 bearing bolt. B-0139 ratchet assembly can now be lifted out.
4. A-0948 ratchet control can be disconnected from A-0949 ratchet latch and lifted out.
5. A-0312 cross arm assembly can be slipped from under the A-0793 bushing and lifted out. A-0455 ratchet pawl, A-0955 pawl spring, A-0576 cotter key and A-0577 washer can now be inspected or replaced.
6. A-0793 bushing can be removed exposing A-0077 ball check spring, A-0579 washer and B-0136 valve disc for inspection.

To Remove B-0107 Switching Valve

Remove both A-0390 cylinder shells. Unscrew both A-0881 piston rods (A-0597 piston assemblies may be left on the A-0881 piston rod). At this point B-0107 valve and A-0065 flipper arm assembly can be lifted from gear box. A-0508 flipper spring sub-assembly can be replaced by removing A-0168 cotter pin and A-0170 clevis pin.

To Replace B-0047 Gas Hose

Unscrew the hex nut (attached to hose) from A-0137 half union. Then unscrew B-0047 hose from A-0866 inlet bushing.

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