# SuperDos 20

### **Operating** Manual



Model 0.3% HAC Model 2.5% Model 2.5% WSP Model 2.5% HAC Model 5% Model 5% HAC Model 10%

### Fluid Flow Range:

0.05 gpm to 20 gpm 11 lph to 4,500 lph

### Injection Range Dosage:

0.025% to 10% 1:4000 to 1:10

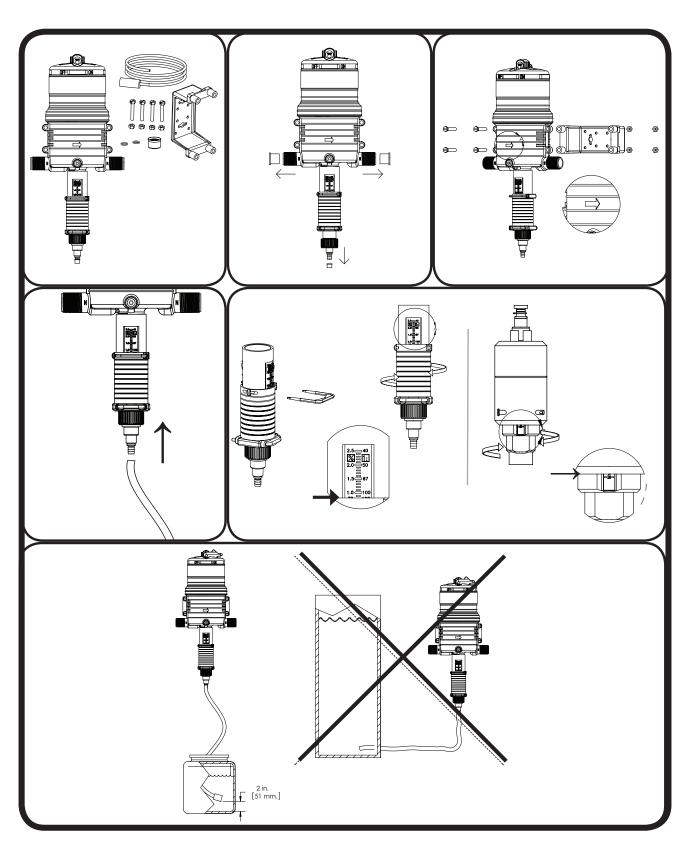
#### **Operating Pressure:**

5 to 100\* psi 0,34 to 6,9 bar

\*Specifications vary by model.



# Quick Start-up

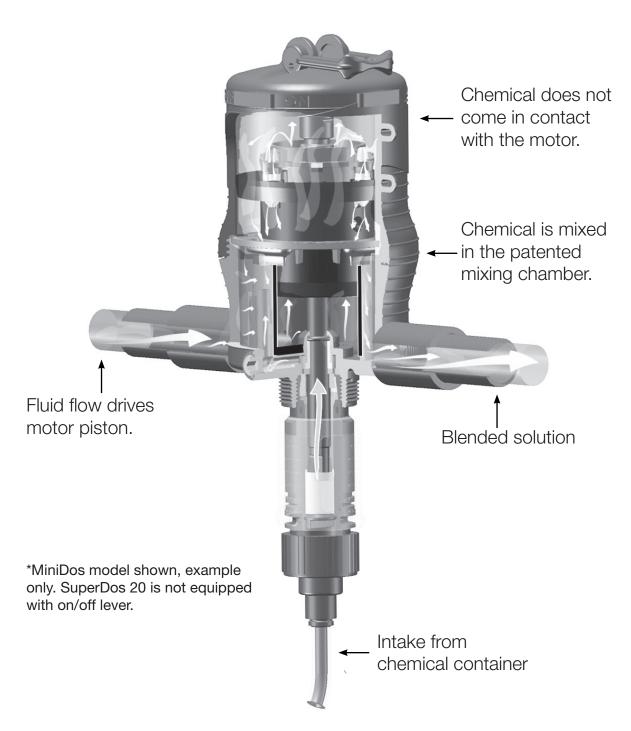


Part # 013825 Rev. I

# **Operating** Principle

#### Accurate and Reliable

Installed directly in the fluid supply line, the injector operates without electricity, using fluid (water) pressure as the power source. The fluid drives the injector, which pulls the required percentage of concentrate directly from the chemical solution container. Inside the Hydro patented mixing chamber, the concentrate is mixed with the fluid, and the fluid pressure forces the mixed solution downstream. The amount of concentrate will be directly proportional to the volume of fluid entering the injector, regardless of variations in flow or pressure.



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#### Please read this manual carefully before putting the Hydro injector into operation.

This booklet has the information you will need for the use and care of your new Hydro injector. If you have any further questions about your injector, the warranty, routine maintenance or proper usage, please contact your nearest distributor or Hydro Systems customer service.

These models are designed to inject liquid concentrate or soluble powder that are recommended and approved for injection into fluid systems.

It is the responsibility of the operator to determine the correct dosage settings of the unit using the chemical manufacturers' recommendation for dispensing their product, and to assure that proper dosage is being maintained.

#### Maintenance and Warranty

Hydro offers a three year limited warranty from the original date of purchase for manufacturing or materials defects only. With proper use and care, your injector should provide you long-term performance.

#### **For Your Records**

The serial number of your Hydro injector is located on the injector body. Please record this number in the space below and reference it when calling your distributor or Hydro for information, parts and service.

Serial #....

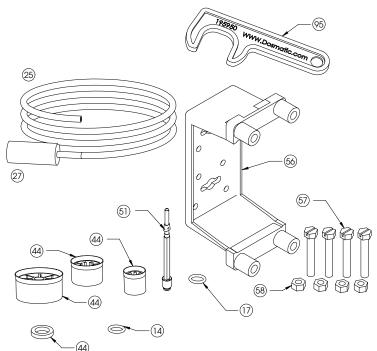
Date Purchased .....

This document does not form a contractual engagement on the part of Hydro Systems Company and is for information only. Hydro reserves the right to alter product specifications or appearance without prior notice.

# Package Contents

#### The injector is packaged with the following items:

- Injector (not shown)
- Dosage Piston
- O-ring
- Manual (not shown)
- Lower End Wrench (0.3% only)
- Mounting Bracket
- Mounting Nuts and Bolts
- Filter
- Suction Tube



Model	NPT	BSP
0.3%	113228R	113728R
0.3% HAC	113228HAC	113728HAC
2.5%	113205	113705
2.5% WSP	113205WSP	113705WSP
5%	113206	113706
10%	113207	113707
10% Remote Injection	113232	113233
2.5% HAC	113205HAC	113705HAC
5% HAC	113206HAC	113706HAC

#### Specifications



#### SuperDos 20 gpm (100 max. psi)

Model 0.3%	0.025% - 0.30% (1:4000 -1:333)
Model 2.5%	0.20% - 2.5% (1:500 -1:40)
Model 2.5% WSP	0.30% - 2.5% (1:300 -1:40)
Model 5%**	0.4% - 5% (1:250 -1:20)
Model 10%*	2% - 10% (1:50 -1:10)
Flow Rate:	0.05 - 20 gpm (11 - 4,500 lph)
Operating Pressure: .	. 5 - 100 psi** (0,34 - 6,9 bar)
Pipe Coupling:	. 1" NPT/BSP
* 10% model maxim	um operating pressure
is 65 psi (4,5 bar).	

\*\* 5% with remote injection kit maximum operating pressure is 60 psi (4 bar).

Housing	Proprietary Engineered Composite Material
Avg. Dosing Accuracy	+/- 5% of ratio
Repeatability	+/- 3% of ratio
Maximum Temp.	100°F (38°C)
Minimum Temp.	34°F (1°C)
Maximum vertical suction of concentrate	13 Feet (3.6 Meter)
Maximum horizontal suction of concentrate	49 Feet (15 Meter)
Self-Priming	Yes
Seal Material Available: *Contact your distributor for specific chemical information	Aflas - Alkaline concentrates Viton - Acids, oils & pesticides EPDM - Alkaline concentrates Kalrez

# Safety Precautions/Warranty Compliance



**Warning:** Please read precautions thoroughly before operation. Must meet all applicable local codes and regulations.

#### **Remove Red Caps Prior to Installation**

Your injector is 100% factory tested before delivery and may contain a small amount of water. The three red plastic caps are fitted after testing to ensure cleanliness of the injector.

#### **Before Applying Aggressive Chemicals**

Please consult your distributor, chemical manufacturer or contact Hydro's customer service to confirm compatibility with your injector. Always wear proper safety protection as recommended by chemical supplier.

#### Label all Fluid Lines, Valves and Connections

If the solution that is being injected is not suitable for drinking, all fluid lines should be labelled: *Warning - not for human consumption!* 

#### **Monitor Outlet Flow**

It is the user's responsibility to monitor the output of chemical injected.

#### A Filter is Recommended and Required

Install a filter of 140 mesh (104 micron) or finer depending on your fluid quality to prolong the working life of the injector and for the warranty to be valid. A filter is imperative since most fluid contains impurities or particles, especially if the fluid source comes from a well, pond or lake.

#### **Avoid a Potentially Hazardous Chemical Accident**

Select a safe location. Chemical container should be kept away from children and/or high usage areas and the location must also not be susceptible to freezing temperatures.

#### **Avoid Solution Contamination**

Use only clean FILTERED fluid. Do not allow contaminants to enter the solution container. They can be pumped into the fluid line and may cause the spread of disease. Dirt, debris and other contaminants in the solution container may cause excessive wear to the unit.

#### Fluid Temperature

Min: 34°F (1°C), Max: 100°F (38°C)

#### **Maximum Fluid Pressure**

0.3%, 2.5%, 5%, - 100 psi (6,9 bar)

10% - 65 psi (4,5 bar)

5% model with remote injection kit has maximum operating pressure of 60 psi (4 bar).

Install a pressure regulator and/or pressure relief valve to ensure operating pressure does not exceed the maximum specification.

#### **Before Removing An Injector From The System**

Release fluid pressure. While the system is in operation, turn off the incoming fluid valve. Leave the out going valve open. This will relieve the pressure at the injector and all parts of the system after the injector. Injector is now safe to remove.

#### General Tips

Please read this instruction manual thoroughly. Following the procedures, will increase the life of your injector.

#### For A Long Service Life

Start with clean fluid by using an inline filter to reduce impurities. Keep the solution container covered and clean. Keep the suction tube filter 2" (5 cm) from the bottom of the container. Perform maintenance procedures as recommended (see Maintenance page 10).

#### Soluble Powder Use

Ensure the chemical is completely dissolved before starting the injector. If necessary, dissolve the chemical in hot water and allow to cool before using. Failure to thoroughly dissolve the chemical will cause premature wear to the dosage piston and the inner cylinder.

#### **Keep From Extreme Temperature**

Protect the injector from freezing temperatures or excessive heat.

#### Rinse Injector After Each Use

Additive allowed to remain in injector can dry out, foul or damage the lower end at the next start-up (see Maintenance page 10).

#### Injector Not in Use for an Extended Period

If the injector has not been stored properly deposits may have dried onto the motor (see Maintenance page 10). Before operation, soak entire unit into room temperature water approx. 72°F (22°C) for an eight hour period.

# **Operations**

#### **Clicking Sound is Normal**

Fluid flowing through the injector will automatically cause the injector to "click" and inject a set amount of solution into the fluid line. The higher the flow rate the more frequent the "clicking". The injector is designed to inject solution proportionally (at the same set ratio) regardless of fluid flow.

#### Service Fluid Flow

Fluid flow and pressure must be within the established specifications (see Specification on page 6) for your model.

#### **Change Feed (Injection) Rate**

The feed rate on the injector is adjustable EVEN WHILE OPERATING AND UNDER PRESSURE. To change feed rate see (Fig. 1 and Fig. 2). Do not remove #79 when injector is under pressure.

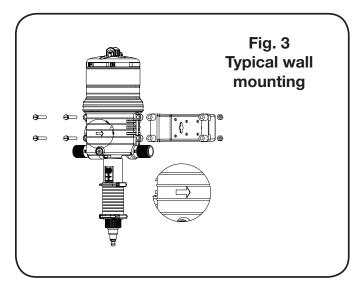
#### SuperDos 20 0.3%, 2.5% 5%

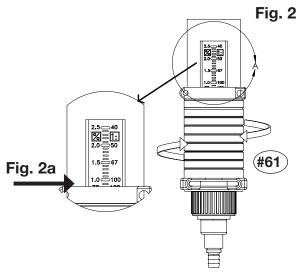
- 1. Remove Upper Interlock Pin (#65) (Fig. 1).
- 2. Rotate Ratio Adjuster Sleeve (#61) up or down to the desired setting (Fig. 2). Use the top of the Ratio Adjuster Sleeve to line up with the desired feed rate on the setting (Fig. 2a).
- 3. Re-insert Upper Interlock Pin (#65). Clip must be parallel with settings to be able to re-insert.

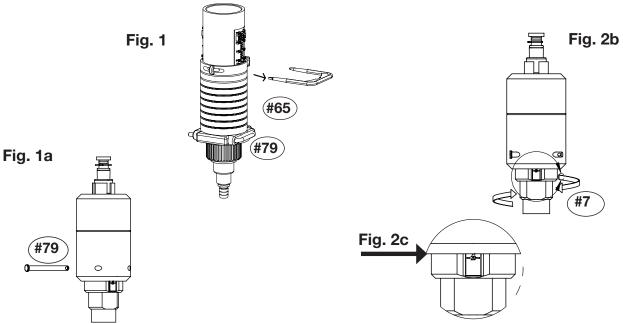
#### SuperDos 20 10%

- 1. Remove Ratio Locking Pin (#79) (Fig. 1a).
- 2. Rotate Outer Cylinder (#7) up or down to the desired setting (Fig. 2b). Use the bottom of the Ratio Adjuster to line up with the desired feed rate setting (Fig. 2c)

NOTE: Do not screw Ratio Adjuster Sleeve below lowest setting line. Measure outlet fluid to assure desired feed rate is being delivered.







# Installation & Start-up Refer to Fig. 3 and Fig. 4

#### Fluid Filter (Required)

Install a filter of 140 mesh (104 micron) or finer depending on your fluid quality to prolong the working life of the injector and for the warranty to be valid. Hydro recommends a Twist II Clean® filter that can be ordered with your injector.

#### **Mounting Injector**

Securely fasten your injector to a solid object such as a wall or in a cold fluid line. Note arrow on injector indicates fluid flow.

#### **Backflow Preventor (Recommended)**

Install one that meets local code requirements.

#### Pressure Safety Release Device (Recommended)

Prevents pressure from exceeding specifications of the unit.

#### **Bypass Valve Set-up (Recommended)**

Allows the injector to be taken off-line for maintenance or storage when not in use.

#### Fluid-Hammer Arrester (Recommended)

Prevents fluid-hammer damage to the injector when operating quick closing solenoid, pneumatic or hand-operated ball valves on the fluid system.

#### **Anti-Siphon Valve (Optional)**

To prevent solution from being siphoned out (from the solution container) into the feed lines when the upstream valve is shut off. The anti-siphon valve must be installed on the downstream outlet.

#### **Additional Siphoning Prevention**

Place solution container on a level below the injector suction tube fitting. Using the inlet side as a shut-off valve could cause full strength solution to siphon into the feed line.

#### **Solution Container**

Use any size container. A lid or cover is recommended. To connect your solution container, gently push the end of the suction tube onto the bottom of the suction tube fitting assembly. Place the filter into the solution container at least 2" (5 cm) from the bottom and fill with at least 2" (5 cm) of chemical solution.

#### **Never Use Petroleum Based Lubricants**

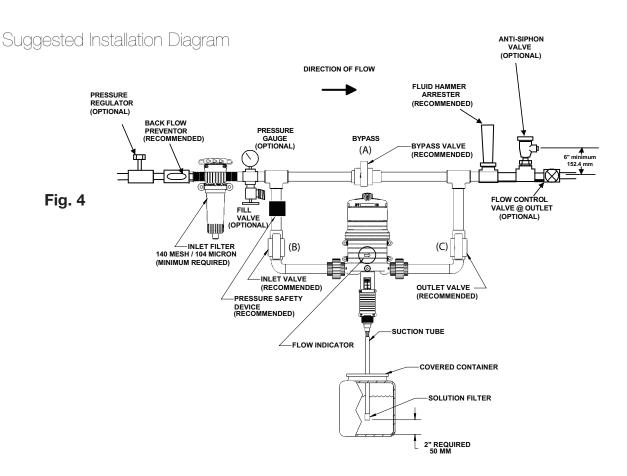
The injector is shipped with a thin coat of silicone around the seals for ease-of-assembly. Petroleum based lubricants such as Vaseline®, baby oil, WD40®, or motor oil on the O-rings or any part of the injector should never be used as this can cause particles to adhere and clog or damage the injector.

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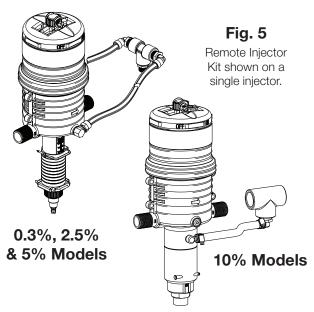
#### **Check System for Leaks and Start-Up Procedures**

Open the bypass valve (A), close inlet valve (B) and outlet valve (C) to prevent fluid flow into the injector. SLOWLY turn on the main fluid line. Run fluid flows between 5 - 12

gpm (11-45 l/m) through the plumbing system. Turn on all of the valves located downstream from your injector to release trapped air. SLOWLY turn on the inlet valve (B). Open the outlet valve (C) and close valve (A). As fluid travels through the injector, you will hear a "clicking" sound. Check for leaks and correct if necessary.



# **Remote** Injecting



Remote Injector Kit (not included) Is recommended for the following:

g: Kit Part Numbers 012705

#### Single Injector:

To prevent mineral build-up within the body of the unit use when injecting chemicals that cause minerals to precipitate from fluid (see Fig. 5).

NOTE: When mixing more than one chemical, always refer to your chemical manufacturer information guide for proper application. Contact your local distributor or Hydro customer service for information or to order.

Maintenance

Reference numbers refer to pages 14 - 20

#### Rinse Injector After Each Use

Additive allowed to remain in injector can dry, foul or damage the lower end at the next start-up. Place suction tube into a 1 qt. (0.95 liters) or more container of fresh filtered water. Flow fresh water through the injector by operating until container is empty. This procedure is not needed for continuous operation.

#### **Clean Solution Container**

Keep covered to prevent dirt, debris from entering the container. Rinse container thoroughly and often. Do not mix chemicals together that might react and cause a precipitate. Use FILTERED fluid when filling container.

#### Clean Suction Tube Filter Screen

Inspect each time new solution is added. Clean filter screen (#27) and suction tube (#25) as necessary by rinsing in fresh water. Replace if necessary. Keep filter screen off bottom of solution container to prevent dirt and precipitate from clogging filter.

#### Clean Inlet Filter

Clean or replace inlet filter as required to increase the life of the unit as well as reduce pressure loss.

#### **Bypass Injector**

When not in use place the injector in bypass mode by using the three valve bypass.

#### Storage

For extended storage, rinse injector (see "Rinse Injector After Each Use") and place underwater in a container. Apply monthly, <0.1 oz. (29 ml) of chlorine bleach to avoid algae growth. KEEP FROM FREEZING.

Perform these maintenance procedures to extend the life of your unit.

#### Refer to page 15 & 16 SuperDos 20 (0.3%) Model

Every 3 - 6 Months	Every 6 - 12 months	Replace as necessary
Clean seal areas (#13).     Check #17 O-ring, #68 Cylinder, clean and/ or replace as necessary.	Replace #17 O-ring and #51 Dosage Piston Shaft Assembly.     Clean and/or replace #13 Check Poppet, #11 Suction Tube Fitting.	1. #68 Cylinder 2. #51 Shaft Assembly

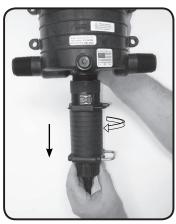
#### Refer to page 17, 18 & 19 SuperDos 20 (2.5%), (5%) Models

Every 3 - 6 Months	Every 6 - 12 months	Replace as necessary
1. Clean seal areas (#14 & #13, #44 - WSP). 2. Check #17 O-ring, #7 Cylinder, clean and/or replace as necessary.	Replace #17 O-ring and #44 Dosage Piston/gasket (WSP model).     Clean & inspect #13 Check Poppet , #11 Suction Tube Fitting.	1. #7 Cylinder 2. #14 (#44 - WSP) O-ring

#### Refer to page 20 SuperDos 20 (10%) Models

Every 3 - 6 Months	Every 6 - 12 months	Replace as necessary
Clean seal areas (#14).     Check #17 O-ring, #7     Cylinder, clean and/or     replace as necessary.	Replace #17 O-ring and #44 Dosage Piston. Clean and/or replace.     Replace #60 hose kit.	1. #7 Cylinder 2. #14 O-ring

### Routine Maintenance Instructions 0.3%, 2.5%, 5%



Step 1.
Unscrew LOWER END
CYLINDER ASSEMBLY from
body. Remove LOWER END
CYLINDER ASSEMBLY



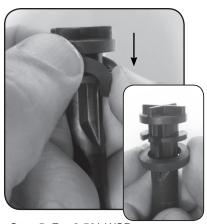
Step 2. Rotate #51 SHAFT 90° and pull from body.



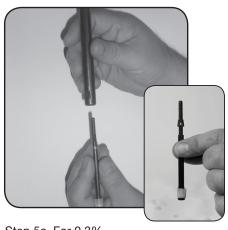
Step 3. Pry the #15 SEAL RETAINER from the injector. Pry #17 O-RING from the unit. NOTE: O-ring may still be seated at the base of the unit.



Step 4. For 2.5% & 5% Replace #44 DOSAGE PISTON flared-end up and #14 O-RING.



Step 5. For 2.5% WSP
Pinch and pull #44 DOSAGE
GASKET over the retainer lip.
Slide off the #51 shaft assembly.



Step 5a. For 0.3%. Replace LOWER SHAFT ASSEMBLY #51 into upper shaft.



Step 6. Reinsert #15 SEAL RETAINER and #17 O-RING onto # 51 SHAFT ASSEMBLY.



Step 7.
Reinsert #51 SHAFT ASSEMBLY into body and rotate 90° to lock.
Confirm the shaft is locked in by gently tugging on the shaft. Shaft should remain inserted.

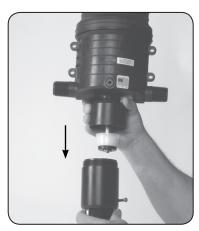


Step 8.
Screw LOWER END CYLINDER
ASSEMBLY onto body. Ensure
#16 gasket is seated on the top
of cylinder assembly.

# **Routine Maintenance** Instructions 10%



Step 1. Unscrew LOWER END ASSEMBLY from body.



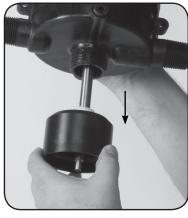
Step 2. Remove LOWER END ASSEMBLY.



Step 3.
Remove #93 CAPSCREW from the end of the shaft using a wrench and nut driver.



Step 4.
Remove the #73 DOSAGE PISTON
GUIDE and replace #44 DOSAGE
PISTON and #14 O-ring.



Step 5. Unscrew #72 ADAPTER and remove.



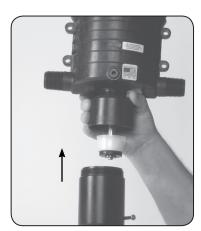
Step 6. Remove and replace #17 O-RING.



Step 7.
Re-install the new #44 DOSAGE
PISTON and #73 DOSAGE
PISTON GUIDE. Tighten snug
using a nut driver.



Step 7a. NOTE: #44 DOSAGE PISTON must be installed **flared end up.** 



Step 8. Screw LOWER END ASSEMBLY onto body. Hand-tighten only.

# **Troubleshooting**

### New Install - Always Pressure Up Slowly (Follow start up on page 9)

Problem	Cause	Solution
		Are the red plugs at the inlet, outlet and suction tube fitting openings removed?
	Fluid not flowing through system	Is the unit installed backward? The arrow on the unit must point in the direction of the fluid flow.
		If still not clicking, do not open the upper body. Call Hydro Customer Service.
No Clicking		Fluid rate is below or exceeds rated service flow of injector. (see Specifications page 6).
Sound	Fluid flowing through system	Has the new injector been stored for an extended period? If so, submerge the injector in room temperature fluid for 24 hours so that the working parts can re-absorb fluid and swell back to the proper size. If below, increase flow rate. If above, reduce flow rate.
		Operating pressure exceeds maximum limit. Install a pressure reducer valve. (see Specifications page 6).
		By-pass valve (A page 9) not closed. Check and set valve to the OFF position.

#### **Injector in Operation or After Scheduled Maintenance**

Problem	Cause	Solution
	Main Piston Assembly #9 worn	Replace # 9 Main Piston Assembly. Clean fluid filter.
No Clicking	Cover #1 or main body #40 worn or scored	Replace and install or clean fluid filter.
Sound	By-Pass Valve (A) not closed	Set By-pass valve (A) to the closed position.
	Dirty or plugged inlet filter	Ensure mesh size is correct for proper filtration. Clean filter.
	#17 Worn or not seated properly	Re-seat #17 or replace.
	Cylinders #7 or #68 worn.	Replace.
	Dosage piston/gasket (WSP model) #44 (0.3% model #51) worn or installed incorrectly	Replace. Ensure during maintenance replacement that #44 was installed correctly flared-end up.
Oli alvina Caund	O-ring retainer #15 installed incorrectly	Install correctly.
Clicking Sound No Suction of Solution	O-ring seat #14 or dosage piston/ gasket #44 (0.3% model #51) damaged	Replace.
	#17 O-ring worn and/or loose	Replace.
	Suction tube #25 or suction tube fitting #11 cracked, leaking or clogged suction tube filter	Replace and/or clean as necessary.
	Check valve #13 leaking	Clean & replace as necessary.
	#44 (0.3% model #51) Dosage Piston/ gasket (WSP model) worn	Replace.
	#7 (#68 - 0.3%) Inner Cylinder worn	Replace.
Clicking Sound. Under Injecting	Unit operates at high-flow and not at low flow	Replace #17 O-ring.
	Main Piston Assembly #9 worn	Replace # 9 Main Piston Assembly. Clean fluid filter.
	Cover #1 or main body #40 worn or scored	Replace and install or clean fluid filter.
Fluid	Check valve #13 leaking	Check seat area on suction tube fitting #11. Check valve and seal must fit loose in the suction tube fitting. Clean seal and inside fitting for debris.
Re-filling Solution Tank	Washer seal on #13 is swollen or chemical attack	Replace with new check valve assembly.

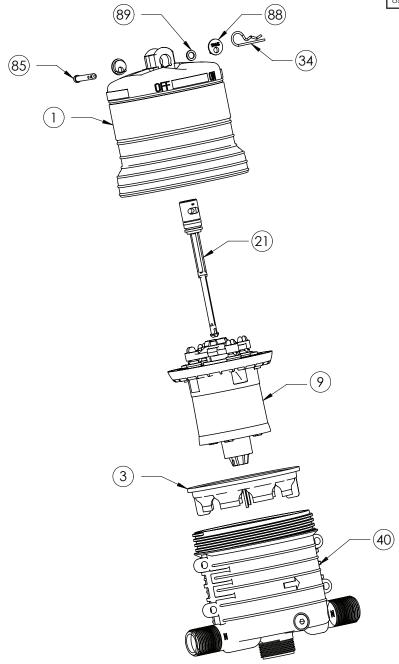
# Kits & Spare Parts List

njector Repair Parts	.15
0.3% HAC Rotating:	.16
0.3% Rotating:	
.5%:	
1.5% WSP:	
i%:	.20
0%:	.21
Accessories:	.22

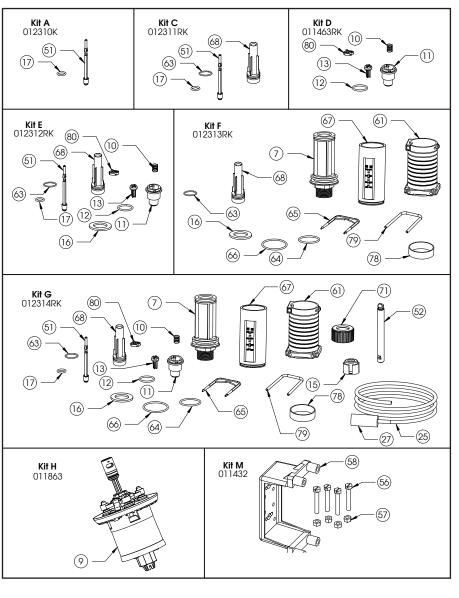


# **Injector Repair** Parts

Ref. #	Description
1	Upper Body (Must Order w/#88)
3	Mixing Chamber Gasket
9	Piston Assembly (Must Order With #21)
9	Piston Assembly 10% (Must Order With #21)
21	Shaft Assembly
34	Hairpin
40	Lower Body NPT 1"
40	Lower Body BSP 1"
85	Upper Shaft Pin
88	Non Bypass Plug
89	Washer



# 0.3% HAC Rotating



Manual Reference	Description of Part			
7	Cylinder, inner			
10	Spring			
11	Suction tube fitting			
12	O-ring			
13	Check poppet			
15	Seal retainer, O-ring			
16	Lower End Gasket			
17	O-ring			
25	Suction tube, 1/4" ID x 5 ft			
27	Compression fitting			
51	Lower shaft Assy			
52	Upper shaft			
61	Ratio adjustment sleeve			
63	O-ring			
64	O-ring, inner cylinder, lower end			
65	Pin, upper interlock			
66	O-ring, outer cylinder, lower end			
67	Cylinder, outer			
68	Cylinder, inner for #7			
71	Nut, suction tube fitting			
78	Lower end stop			
79	Pin, narrow interlock			
80	Twistlock			

17

15

16

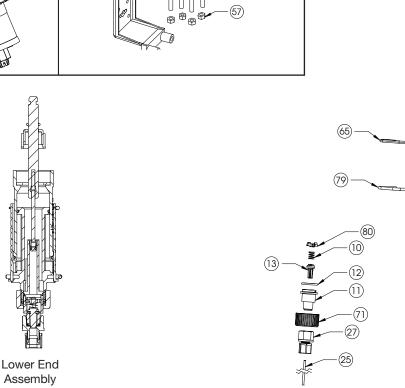
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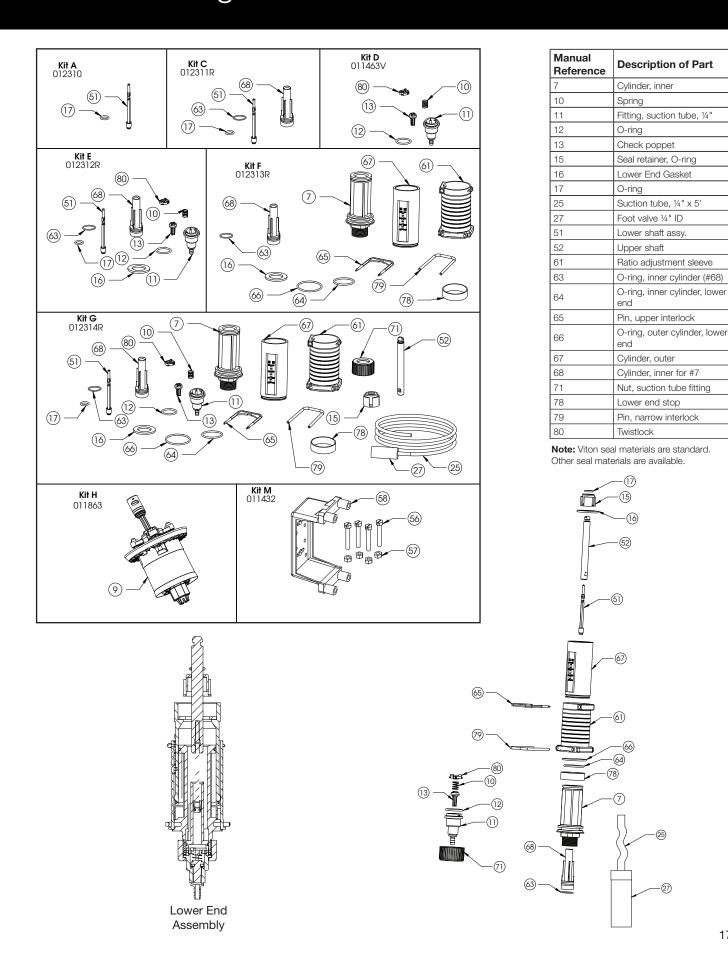
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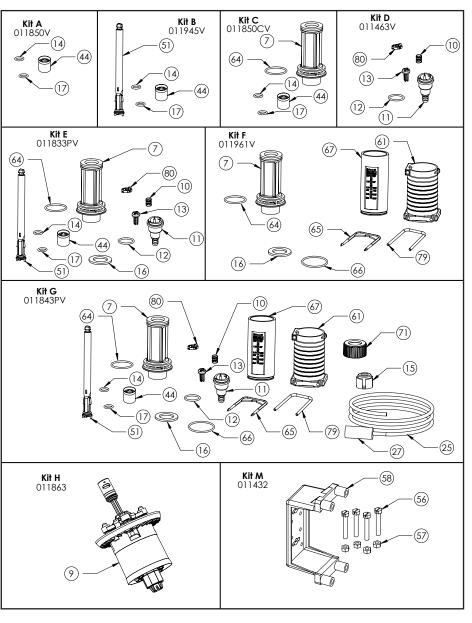
63)

-(51)



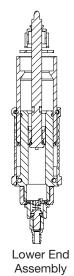
# 0.3% Rotating

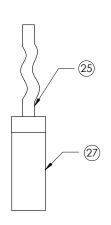


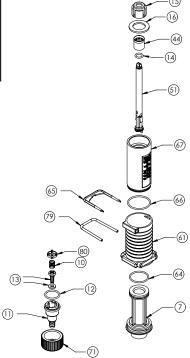


Manual Reference	Description of Part		
7	Cylinder, inner		
10	Spring		
11	Fitting, suction tube, 1/4"		
12	O-ring		
13	Check poppet		
14	O-ring		
15	Seal retainer, O-ring		
16	Lower End Gasket		
17	O-ring		
25	Suction tube, 1/4" x 5'		
27	Filter, for suction tube, 1/4" ID		
44	Dosage Piston		
51	Shaft		
61	Ratio adjustment sleeve		
64	O-ring, inner cylinder, lower end		
65	Pin, upper interlock		
66	O-ring, outer cylinder, lower end		
67	Cylinder, outer		
71	Nut, suction tube fitting		
79	Pin, narrow interlock		
80	Twistlock		

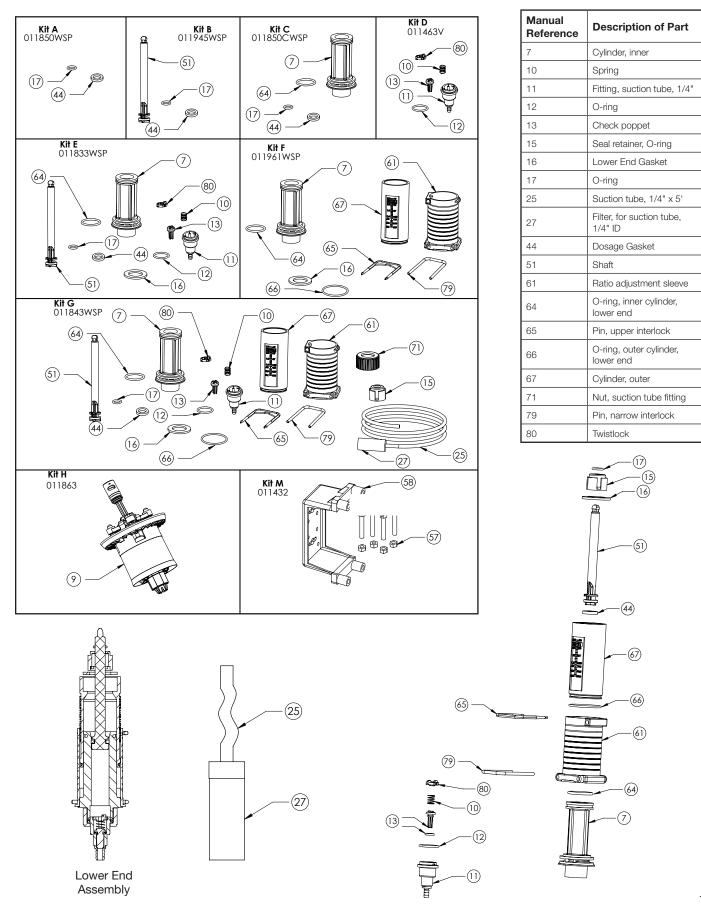
**Note:** Viton seal materials are standard. Other seal materials are available.

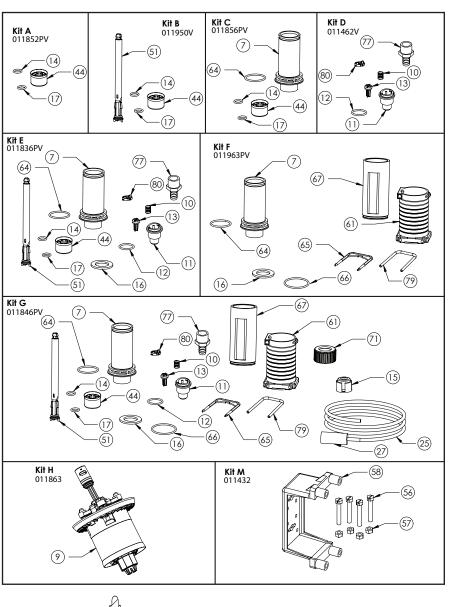






### **2.5%** WSP





Manual Reference	Description of Part		
7	Cylinder, inner		
10	Spring		
11	Suction Tube Fitting		
12	O-ring		
13	Check Poppet		
14	O-ring		
15	Seal retainer, O-ring		
16	Lower End Gasket		
17	O-ring		
25	Suction tube, 1/2" x 5'		
27	Filter, for suction tube, 1/2" ID		
44	Dosage Piston		
51	Shaft		
61	Ratio adjustment sleeve		
64	O-ring, inner cylinder, lower end		
65	Pin, upper interlock		
66	O-ring, outer cylinder, lower end		
67	Cylinder, outer		
71	Nut, suction tube fitting		
77	Hose Barb 1/2" x 3/8"		
79	Pin, narrow interlock		
80	Twistlock		

**Note:** Viton seal materials are standard. Other seal materials are available.

(15) (16)

44)

14)

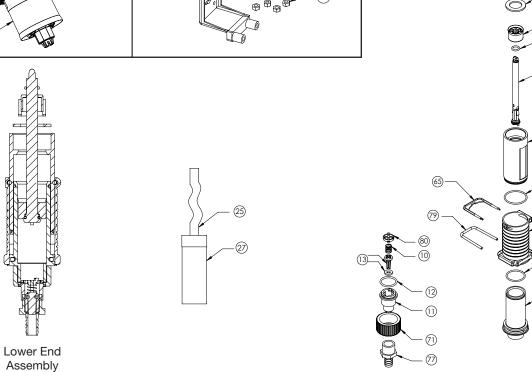
(51)

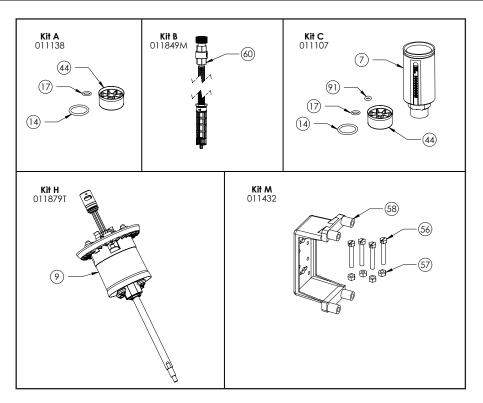
67)

66)

61)

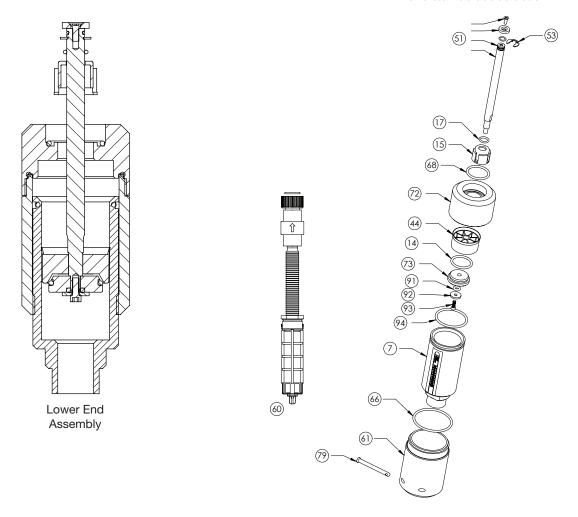
64)





Manual Reference  Description of Part  Outer Cylinder			
7 Outer Cylinder	Description of Part		
	Outer Cylinder		
14 O-ring, Dosage Piston Guide	O-ring, Dosage Piston Guide		
15 Seal Retainer, O-ring	Seal Retainer, O-ring		
17 O-ring	O-ring		
44 Dosage Piston	Dosage Piston		
51 Shaft Assembly, Stainless Steel			
53 Klipring			
61 Ratio Adjuster	Ratio Adjuster		
66 O-ring, Outer Cylinder, Lower End	O-ring, Outer Cylinder, Lower End		
68 O-ring, Cylinder Adapter, Lower End	O-ring, Cylinder Adapter, Lower End		
72 Adapter	Adapter		
73 Dosage Piston Guide	Dosage Piston Guide		
79 Ratio Locking Pin			
93 Capscrew 10-32 X 1/2" Ss Hex			
92 Shaft Cap			
94 O-ring, Outer Cylinder			
91 O-ring, Dosage Piston Guide			
60 Hose Kit			

**Note:** Viton seal materials are standard. Other seal materials are available.



### Accessories



#### Twist II Clean Inline Filter®

#### Available In:

3/4" - 25 gpm (95 l/mn) 100 psi (7 bar) 1" - 39 gpm (114 l/mn) 100 psi (7 bar) 1.5" - 78 gpm (295 l/mn) 100 psi (7 bar) 2" - 150 gpm (568 l/mn) 100 psi (7 bar) \* Various mesh sizes available.



#### **Mobile Cart**



