

# ENCHLOR Inc. Gas Feed Systems Series E2000 Instruction Manual



All ENCHLOR Chlorination systems are carefully designed and tested for years of safe, accurate field service. All ENCHLOR Chlorination systems are chlorine tested, at customer specified conditions, prior to shipment. All ENCHLOR products are made of the finest materials. To ensure best operation, read these instructions carefully and completely and store them where all maintenance personnel will have access to them.

Each 2000 Series gas chlorination system consists of the following:

- 1. The vacuum regulators which mount on the chlorine cylinders.
- 2. A wall mounted flow meter with manual control valve.

3. The ejector, with nozzle and diffuser, mounts directly to the pipe line, tank, wet well, or to a solution line.

- 4. Standard accessories:
- a. Appropriate polyethylene tubing for vacuum lines.
- b. Ten lead gaskets for each vacuum regulator.
- 5. Additional parts available from any plumbing supply, or can be ordered through Enchlor.
  - a. Pressure gauge.
  - b. Water shut off valve.
  - c. Y-type strainer.

### Gas Chlorination Systems Series 2000 Operation & Maintenance Manual

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# SECTION I: SAFETY INFORMATION

#### TAKE CARE WITH CHLORINE!

1. Always keep chlorine cylinders in an upright position with the valve cap screwed on tight before moving full or empty cylinders. Cylinders should be moved with care.

2. A safety chain must be placed around the cylinder and secured to a wall. Spare full cylinders should also be secured carefully.

3. For best operation and safety, the vacuum regulator and cylinders should be protected from the elements including direct sunlight.

4. Never place heaters or heat lamps directly on a cylinder.

5. Ammonia gas should NOT be stored or fed in the same room with chlorine. Contact of the gases may result in an explosive mixture.

#### IMPORTANT NOTE:

Take extreme caution when using chlorine gas manifolds. Manifolds contain pressurized chlorine gas there- by increasing the risk of a pressurized chlorine leak. Enchlor vacuum regulators are designed to mount directly onto the valve of chlorine and sulfur dioxide cylinders. Direct cylinder mounting is the easiest and safest configuration to operate and maintain. With this configuration, the chlorine gas flows under vacuum everywhere beyond the one pressure point at the chlorine cylinder valve.

# SECTION II: DESIGN AND INSTALLATION NOTES

1. The "all vacuum" system means that system will shut off at the cylinder valve, should the vacuum line be broken, if water is stopped for any reason, or if the chlorination equipment is physically damaged.

2. Choosing the right feed rate capacity:

VACUUM REGULATOR SHOULD BE ON MAXIMUM POSSIBLE FLOW. Imperial Units:

GPM x 0.012 x (PPM) Dosage = PPD Gallons Per Minute Parts Per Million Pounds Per Day (Cl 2)

Example:  $600 \text{ GPM } \times 0.012 \times 3 \text{ PPM} = 21.6 \text{ PPD}$ In this example a 50 PPD system would be appropriate.

Metric Units:

LPM x 0.0599 x (PPM) Dosage = GPH Liters Per Minute Parts Per Million Grams Per Hour (Cl 2)

3. TOTAL BACK PRESSURE is the pressure in the pipeline to be chlorinated plus the friction losses in the solution line between the ejector and the point of injection at the pipeline. Ejectors capable of operating with backpressures up to 140 Psig are standard. For higher backpressure consult factory.

4. It is preferable to locate the ejector at the point of solution injection in order to eliminate the need for solution lines. Friction losses in the solution line will increase the ejector backpressure. To reduce the friction losses, increase the solution line internal diameter and limit the number of flow restrictions and turns. Also be sure that the solution line material is resistant to the highly concentrated chlorine

mixture. Avoid solution lines wherever possible.

5. The chlorine gas is carried from the vacuum regulator to the ejector through the specified black polyethylene tubing. Up to 100 feet of polyethylene tubing between vacuum regulator and ejector is standard. For longer distances consult factory.



A typical installation injecting chlorine into a pipe line using city water.

(I) INSTALLATION OF EJECTOR (Refer to Figures 1 and 2)

1. Installation of EJECTOR:

a. Remove the diffuser from the ejector assembly and place 2 wraps of Teflon tape on diffuser threads.

b. Do Not install diffuser into pipeline when assembled with ejector.

c. Turn diffuser by hand into NPT threads of pipeline (3/4" or 1 1/4" NPT). Place wrench on diffuser and tighten one half turn maximum.

d. Reconnect diffuser to ejector making sure appropriate O-rings are on each side of nozzle and diffuser.

2. Testing of ejector. (Note: The vacuum regulator should still be in the shipping case.)

i. Piping hook up to ejector (Refer to Figures 1 and 2 and Servicing Section in this Manual).

a. Ejector should be installed downstream at a sufficient distance so that chlorinated water is not recirculated through the booster pump. (See Figure 2.)

b. On the water inlet side to the ejector nozzle the following should be installed: a gate valve, Y-strainer, and a pressure gauge.

ii. Testing for sufficient pump pressure to operate ejector. Also checking that booster pump (if applicable) operating in the proper direction. Refer to ejector performance charts and tables at end of this manual.

Note 1: Ejector must have some back pressure to prevent jetting. (Jetting causes loss of vacuum) Note 2: When chlorinating into a contact chamber a tee should be installed on the solution line with a vacuum breaker to prevent siphoning.

a. If operating with city water pressure (no booster pump), open the water inlet valve to the ejector and feel

for suction (with your finger) at the fitting on the top of the ejector.

b. If pump is operating in proper direction there should be a strong vacuum at the fitting on the top of the ejector. Feel for suction (with your finger) at the fitting on the top of the ejector.

c. If the ejector has tested satisfactorily continue to the next step (Mounting the Vacuum Regulator).

# SECTION III: SYSTEM INSTALLATION

#### (II) INSTALLATION OF VACUUM REGULATOR

NOTE: The chlorine cylinder valve is CLOSED. Do not open until instructed to do so.

1. See that safety chain is secured around chlorine cylinder.

2. Remove the cylinder protection cap from the chlorine cylinder.

3. Examine the vacuum regulator for obvious damage.

4. Remove masking tape used for shipping purposes.

5. Place lead gasket over vacuum regulator inlet assembly.

6. While placing lead gasket on vacuum regulator see that the filter has not fallen out of inlet assembly. (This filter is necessary to remove particles that will cause venting.) The filter should be inspected each time the cylinder is changed.

7. Mount vacuum regulator on cylinder valve being sure the yoke screw is backed out far enough for sufficient clearance. While tightening the yoke screw be certain that the lead gasket stays in place. Excessive tightening can damage gasket and/or yoke screw. DO NOT USE EXCESSIVE FORCE. See torque specifications below.

(III) CONNECTING VACUUM LINES BETWEEN VACUUM REGULATOR AND EJECTOR AND VACUUM

REGULATOR VENT TO OUTSIDE (Refer to Figures 1 and 2)

1. The side connector of vacuum regulator is for vacuum line tubing to ejector. (Allow enough vacuum tubing for changing cylinders.)

2. Connect vent tubing to second connector on the vacuum regulator and vent to safe area outside of building. (Place bug screen outside on end of vent tubing.)

NOTE: Do Not connect vent lines from two vacuum regulators to one common vent. You must run separate vent lines to the outside, when using multiple vacuum regulators.

(IV) REMOTE METERS (Refer to Figure 2)

1. Remote Meters: (Gas flow is from bottom to top through the tube)

a. Connect the line in to the bottom tube connector.

b. Connect the line out to the ejector to the top connector.

A Switchover System injecting chlorine into a pipeline using a turbine positive displacement pump.

Pressure relief valve must discharge to a drain or outside of building. Note the by-pass piping from pump discharge through by-pass valve back to suction side of pump. NOTE: By-pass valve must never be completely closed. NOTE: Pump suction and ejector must be from the side of the pipeline, not from the top of the line.



# SECTION IV: CHLORINATION SYSTEM VACUUM TEST

1. Do Not open chlorine cylinder valve until vacuum test is satisfactorily completed.

a. Vacuum Test

With the chlorine cylinder still closed, start the ejector booster pump and the meter tube ball should drop to the bottom within about ten seconds. If the ball continues to bounce, there is either a leak at the lead gasket or a loose connection at the vacuum tube fittings or meter tube. (The tube fittings should be hand tight. It is not necessary to use pliers or a wrench on these fittings. If meter tube needs tightening, use a quarter and finger tighten inlet plug.) At this time the rate valve on the vacuum regulator should be open two or three turns.

b. If the ejector is operating properly (pulling sufficient vacuum) then the front bolts should be depressed on both vacuum regulators.

c. Turn off water supply to ejector.

d. Wait 5 to 10 minutes with water supply off. The ball should remain still at the bottom of the meter tube.

e. If the system is vacuum tight proceed to the next step.

f. Disconnect vacuum tubing at the vacuum regulator to allow air to enter the system. Reconnect tubing.

g. Place one of the vacuum regulators in standby by turning the front knob two turns counterclockwise and then returning it two turns clockwise. The front bolt should remain protruding per the diagram on the vacuum regulator.

# SECTION V: START UP OF CHLORINATION

Material necessary: A small plastic squeeze bottle, 1/3 full of household ammonia, for detecting chlorine leaks. When ammonia fumes contact chlorine gas a visible smoky vapor is produced. (Wipe up any splashed liquid ammonia.)

1. Open chlorine cylinder valve 1/4 turn and close immediately.

2. Squeeze ammonia bottle at gasket and yoke assembly area: if no vapor appears the seals are tight and it is OK to proceed to the next step.

3. Open chlorine cylinder valve 1/4 turn, leave open, and recheck for chlorine leaks. (1/4 turn open of the cylinder valve is all that's required. The reason we specify 1/4 turn is that the valve can be closed with only 1/4 turn. In an emergency you can shut it off quickly and safely. The wrench stays on the cylinder valve while cylinder is open.)

4. Place one vacuum regulator in standby. This is done by turning the reset knob two turns counterclockwise and then returning it two turns clockwise. The front bolt should remain protruding per the diagram on the vacuum regulator.

5. Turn on water supply or booster pump to ejector and set rate valve to desired flow rate. Read flow rate at center of ball on meter tube scale.

6. Rate valve is not a shut off valve: it is a flow rate control only. To shut off chlorine feed close the chlorine cylinder valve.

## SECTION VI: SHUT DOWN PROCEDURE

1. Close both chlorine cylinder valves while pump is still running.

2. Wait for ball to rest at bottom of meter tube and the front bolt to be below the surface.

3. Break vacuum by removing the tubing at one of the vacuum regulators and reattach. (Repeat at least 2 times for more complete removal of gas from the system.)

4. Shut down the water supply to the ejector.

This procedure of shut down must be followed before a vacuum regulator is removed from a cylinder. NOTE: After installing the vacuum regulator with a new lead gasket on a new cylinder, the vacuum tubing should be removed to allow air to enter the system and break the vacuum. Not releasing vacuum and turning on cylinder will slam the diaphragm forward and could cause damage to the diaphragm assembly. You can also accomplish breaking the vacuum by turning the rate valve out of the bonnet. Either way is acceptable.

## SECTION VII: CHANGING CYLINDERS

When one cylinder is empty, and the system has switched to feed from the other cylinder then the empty cylinder must be replaced, and that vacuum regulator must be placed in standby mode.

1. Tightly close the valve of the empty chlorine cylinder. Follow all applicable guidelines in changing chlorine cylinders.

2. After replacing the empty with a full cylinder, inspect the vacuum regulator, the vacuum regulator filter and (using a new lead gasket) mount the vacuum regulator on the full cylinder.

3. Turn the front knob two turns counterclockwise and then return two turns clockwise to place the vacuum regulator in standby. The front bolt should remain protruding per the diagram on the vacuum regulator.

# SECTION VIII: RATE VALVE OPERATION

Turn the rate valve counterclockwise to open it completely. Further turns will completely remove the rate valve from the flow meter tube, which will cause a loss of Cl2 feed. (See Appendix for servicing instructions.)

The O-ring seals for the rate valve are locked in place under the valve bonnet and do not come out when the rate valve is pulled out of the bonnet.

PREVENTATIVE MAINTENANCE NOTE: Rate valves which are not exercised frequently may experience a buildup of a white powdery substance which precipitates out of the chlorine gas. In order to avoid this, build up, which can cause the rate valve to become stuck in place, it is recommended that the rate valve be periodically exercised. See Appendix for rate valve maintenance instructions.

# SECTION IX: TROUBLESHOOTING

#### (I) PRESSURIZED LEAKS

1. Pressurized chlorine leaks are a safety hazard to life and equipment and should be corrected immediately. When searching for this type of leak there are basic safety rules to follow.

- a. Air breathing pack should be readily available, and personnel should know how to use it properly.
- b. Exhaust fan switch should be located near outside entrance with alternate outside switch
- c. Chlorine cylinder wrench should remain on the cylinder whenever cylinder is open.
- d. Plastic squeeze bottle 1/3 full of household ammonia.
- e. Buddy system used (two people capable of operating system).
- 2. If a leak is detected the following should be checked first:
- a. The lead gasket between the chlorine cylinder valve and the vacuum regulator inlet assembly.

i. Tighten the half dog screw on the vacuum regulator yoke assembly which is used to secure the inlet assembly to the chlorine cylinder valve.

- ii. Always use a new lead gasket.
- b. Chlorine cylinder valve packing.

i. Tighten the cylinder valve with care, not excessively! Close the valve if problem persists and notify your chlorine supplier.

ii. If valve is the problem try to move cylinder with a high degree of safety to an outside location.

c. Chlorine leaking out the vent due to the inlet safety shut off valve having dirt on the valve seat.

i. Close the chlorine cylinder valves.

ii. Wait until the metering ball drops to zero on the flow tube.

- iii. Turn off water supply to ejector.
- iv. Now remove the leaking vacuum regulator from the cylinder valve.
- v. See Appendix for inlet safety shut off valve servicing instructions.

vi. After servicing and remounting chlorinator with a new lead gasket, pull a vacuum test before you open the chlorine cylinder valve. See Section IV: "Chlorination System Vacuum Test".

#### (II) NO CHLORINE FEED

Possible causes:

- 1. No vacuum being produced by ejector.
- a. Remove poly tubing from ejector fitting and place your finger on it; you should feel a strong suction.
- b. If you feel no suction (vacuum) check in this order:
- i. Nozzle (See Appendix): Turn off water supply and remove nozzle from ejector.
- (1) It may be clogged or damaged by a stone or other foreign matter. Flush out or run pipe cleaner

through carefully.

(2) If there is a build-up of rust, iron, or manganese, place the nozzle in a Muriatic acid for five minutes and rinse with water. If you see a black syrup substance you may find it necessary to clean the nozzle on a preventative maintenance schedule.

ii. Inlet Water Supply. Check that it is sufficient. Refer to nozzle curves in back of manual.

iii. Reduced city water pressure.

iv. Y strainer needs cleaning.

v. Booster pump cavitating (lost its prime).

vi. Booster pump insufficient boost due to wear or single phasing due to loss of one leg of power. vii. Booster pump may have flooded suction.

2. Chlorine flow blocked at vacuum regulator inlet assembly.

a. The Inlet filter could be clogged.

3. Out of Chlorine.

a. The scale would read 150 lbs. lighter than when cylinder was new.

b. Meter tube ball would be at zero.

# APPENDIX A – SERVICING THE SYSTEM SECTION A-1: VACUUM REGULATOR

1. Follow the usual shut-down procedure carefully before removing any vacuum regulator from the gas bottle.

2. Make certain that the switchover mechanism indicated the regulator is in the "IN USE" position.

3. Using a 5/32" Allen-wrench, remove the socket head cap screw (BTE-511-500) and Kynar washers

4. Unscrew the reset knob (VRE-541-500) from the front body.

5. Remove the two yoke screws (BTE-STA-125) and pull the yoke assembly out of the vacuum regulator back body.

6. Unscrew the body bolts (BTE-STA-129 & BTE-STA-124) from the back body and pull the back body away from the front body until they separate.

7. Using a pair of pliers and being careful to only grip the smooth portion of the shaft, remove the guide pin (VRE- 546-500) from the diaphragm assembly by turning clockwise.

8. To disassemble the diaphragm, grasp the front and rear plates and turn them apart (they are threaded together with normal, right-hand thread and may require the aid of a vice to disassemble).

9. Inspect all O-rings and replace if necessary.

10. Replace the guide pin (VRE-546-500).

11. After inspection and replacement of all necessary parts, reassemble the unit in reverse order.

## SECTION A-2: INLET ASSEMBLY

WARNING: If the vacuum regulator leaks gas out the vent or any other place on the body the problem is most likely caused inside the yoke assembly. It is recommended that the yoke assembly be disassembled by a person experienced in Chlorine Vacuum Regulator maintenance because if it is not done properly dangerous leakage of pressurized gas could result.

1. Remove the inlet assembly from the yoke plate by slipping off the PVC retainer clip (VRH-142-500) that holds it to

the yoke.

2. Remove the inlet filter material from the inlet capsule (VRH-141-501).

3. Disassemble the inlet assembly using a small flat-head screwdriver to hold the inlet valve (VRH-112-500) and a pair of pliers (and a protective cloth) to grip the vent plug (VRH-111-500) to unscrew these two parts. Take care as this assembly is under spring tension and small parts may be difficult to find if dropped.

4. Unscrew the seal plug (VRE-182-500) from the inlet capsule.

5. Remove the valve seat (VRE-110-500) from the inlet capsule by simply pushing the exposed threaded portion up through the inlet capsule. Note that the O-ring ORE-VIT-011 is attached to this seat.

6. Clean the inlet capsule, inlet spring (SPE-104-100) and inlet valve using a soft cloth or plastic cleaning pad. Do not use steel wool or other metal cleaning sponges on the inlet valve.

7. Using all new O-rings and new parts as needed, reassemble in reverse order.

# SECTION A-3: REMOTE METER

(I) CLEANING THE RATE VALVE

1. Unscrew the rate valve knob and stem (by hand) completely out of the top meter block.

2. In low capacity systems (10 PPD or below) check to see if the point of the valve stem is broken or bent. If it is damaged it must be replaced.

3. Replace O-Rings on the rate valve stem.

4. Lubricate the new O-Rings lightly with Flourolube grease before replacing the rate valve and knob into the top meter block.

(II) CLEANING THE METER TUBE

1. While holding the glass meter tube (to prevent it from falling) unscrew the inlet plug at the base of the bottom meter block, until the meter tube can be removed.

2. Remember to be careful not to lose the stops or ball in the following steps.

3. Remove the white stops at either end of the tube (you could use a paper clip).

4. Soak the tube in warm water with a cleaner like lime away or Muriatic Acid. Also, brush the inside of the tube with a pipe cleaner.

NOTE: Always follow safety precautions with Muriatic Acid and other chemicals.

5. Dry the meter tube and reinstall the ball and stops.

6. It is recommended that new meter tube gaskets be used when reinstalling the meter tube.

7. Remove the inlet plug completely and inspect the O-Rings. If it has been more than 12 months since they were changed or if there is any noticeable damage, the O-Rings should be replaced.

8. Reinstall the inlet plug, meter gaskets and meter tube, making sure to center the tube on the top and bottom meter gaskets.

9. Tighten the inlet plug with reasonable force to make a seal. Do not use excessive force.

# SECTION A-4: EJECTOR/CHECK VALVE ASSEMBLY

(I) LOSS OF VACUUM AT THE EJECTOR: If vacuum is lost at the ejector and water supply is sufficient, then the nozzle is most likely clogged, broken or loose. Before working on the ejector, it must first be isolated so that water will not leak when the ejector is removed.

1. First detach the intake side (nozzle) of the ejector from the pipeline.

2. For 3/4" line size ejectors rotate the complete ejector body counterclockwise. This loosens the threaded portion of the nozzle from the diffuser. It also eliminates the need for pliers on the nozzle which could damage the plastic. For 11/4" line size ejectors remove the two flanges to remove the ejector.

3. Inspect the nozzle for:

Pipe scale, stones, dirt, etc...

Build-up of iron, manganese, calcium, etc...

4. The nozzle should be soaked and brushed with warm water mixed with a cleaner like Muriatic Acid. NOTE: TAKE CARE NOT TO SCRATCH OR ATTEMPT TO MODIFY THE ORIFICE IN ANY WAY.

5. Using two new ORE-BUN-121 O-rings the ejector can now be reassembled.

When reassembling 3/4" line size ejectors the nozzle and diffuser should be screwed together hand tight leaving the ejector body 90 degrees to the left of its final position. Once the nozzle and diffuser are hand tight, the ejector can then be turned the final 90 degrees.

WARNING: Do not use excessive force in tightening the nozzle, diffuser and ejector assembly. The ejector is con- structed of PVC and excessive force can break the parts.

(II) SERVICING THE EJECTOR CHECK VALVE ASSEMBLY: If water leaks back into the system, this means that the ejector check valve has failed. This could be caused by incorrect assembly, a failed gasket, O-Ring or diaphragm, or foreign material lodged in the check valve.

1. Remove the four bolts holding the ejector body together.

2. Inside you will find a diaphragm assembly and a spring.

3. The diaphragm assembly can usually be unscrewed by hand. If it is too tight, carefully try large jaw pliers or a vice. Note that a plastic support diaphragm is on the top side of the rubber diaphragm. The purpose is to protect the softer rubber diaphragm in installations with high pressure.

4. Inspect the rubber diaphragm for holes or weak points.

5. Inspect the ORE-CEM-210 O-Ring. Replace if damaged.

6. Reassemble the diaphragm assembly, preferably with a new rubber diaphragm, DIE-104-500.

7. Install the assembly in the recess between the ejector body halves being careful to install the spring properly below the assembly.

**Note:** Pressure combinations that plot below the line for any given nozzle are acceptable for operating that nozzle at the stated chemical feed rate for that chart. Pressure combinations that fall above the line for any given nozzle are not acceptable.



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1     10-24 x 1" Bolt     4     BTH-STa-126     25     PM/y" Tubing Connector     2     BKF-64 SPH-1       2     Front Body     1     VRH-445-500     27     Diaphragm Front Plate     1     100-000       4     PMO-Ring     3     OH-VIT-012     28     PM Set of Two Diaphragm Front Plate     1     VRH-4269-500       5     Bonnet Plug, 250 PPD     1     PLH-175-250     29     PM O-Ring     1     OH-VIT-028       6     Rate Valve assembly, 10 PPD     1     RVH-118-002V     30     Diaphragm Back Plate     1     VRH-4363-500       78     Rate Valve Stem & Knob, 100 PPD     1     RVH-148-002V     33     O-Ring     1     OH-VIT-009       78     Rate Valve Stem & Knob, 100 PPD     1     RVH-122-200     34     Flow Tube     1     VRH-160-200       9     Rate Valve Stem & Knob, 100 PPD     1     RVH-122-200     36     V-20 x 2V/x Body Screw     6     BTH-STa-124       11     "O-Ring     1     OH-VIT-101     38     *Retainer Clip     1     VRH-142-500 </th <th>item No.</th> <th>Description</th> <th>Quantity</th> <th>Part No.</th> <th>item No.</th> <th>Description</th> <th>Quantity</th> <th>Part No.</th>	item No.	Description	Quantity	Part No.	item No.	Description	Quantity	Part No.
1     10-24 AT LODI     2     3     10-24 AT LODI     2     2     10-10-20       2     Find gassembly     1     VRH-107-250     26     Spring     1     100-000       3     Flag assembly     1     VRH-425-500     27     Diaphragm Front Plate     1     VRH-265-500       5     Bonnet Plug, 250 PPD     1     PLH-175-250     29     "*O-Ring     1     OH-VIT-028       6a     Rate Valve assembly, 100 PPD     1     RVH-118-002V     30     Diaphragm Back Plate     1     VRH-363-500       7a     Rate Valve Stem & Knob, 10 PPD     1     RVH-465-002V     32     "*O-Ring     1     OH-VIT-009       7a     Rate Valve Stem & Knob, 100 PPD     1     RVH-425-003     34     Flow Tube     1     VRH-160-200       9     Rate Valve Stewe     1     RVH-124-200     35     Back Body     1     VRH-160-200       10     Rate Valve Stewe     1     RVH-126-200     36     Back Body     1     VRH-162-500       12     "O-Ring <t< td=""><td>1</td><td>10-24 x 1" Bolt</td><td>1</td><td>BTH_STa_126</td><td>25</td><td>PM3/c" Tubing Copportor</td><td>2</td><td>BKE-64 SDH-</td></t<>	1	10-24 x 1" Bolt	1	BTH_STa_126	25	PM3/c" Tubing Copportor	2	BKE-64 SDH-
1   1   VR1445-500   20   Diaphragm Front Plate   1   VR14269-500     4   P*O-Ring   3   OH-VIT-012   28   P*Sector Two Diaphragms   1   OH-106-500     5   Bonnet Plug, 250 PPD   1   RVH-118-002V   30   Diaphragm Back Plate   1   VRH-363-500     6a   Rate Valve assembly, 10 PPD   1   RVH-118-003   31   P*O-Ring   1   OH-VIT-029     7a   Rate Valve assembly, 10 PPD   1   RVH-118-003   31   P*O-Ring   1   OH-VIT-029     7a   Rate Valve Stem & Knob, 100 PPD   1   RVH-128-002V   33   O-Ring   1   OH-VIT-056     7b   Rate Valve Stem & Knob, 100 PPD   1   RVH-122-00   36   Flow Tube   1   VRH-162-500     9   Rate Valve Stem & Knob, 100 PPD   1   RVH-122-00   36   I/-20 x 11/x* Body Screw   6   BTH-STa-124     10   Relate Valve Stem & Knob, 100 PPD   2   GaH-VIT-101   37   YGK eassembly   1   VRH-426-500     12   P*O-Ring   1   OH-VIT-101   37   YGK eassembly	2	Front Body	4	VRH-107-250	25	Spring	2	100-000
4     PM O-Ring     3     OH-VIT-012     28     PM Set of Two Disphragms     1     DH-106-500       5     Bonnet Plug, 250 PPD     1     PLH-175-250     29     PM O-Ring     1     OH-VIT-028       6a     Rate Valve assembly, 100 PPD     1     RVH-118-003     31     PM O-Ring     1     OH-VIT-028       7a     Rate Valve assembly, 100 PPD     1     RVH-118-003     31     PM O-Ring     1     OH-VIT-028       7a     Rate Valve assembly, 100 PPD     1     RVH-118-003     31     PM O-Ring     1     OH-VIT-026       7a     Rate Valve Stem & Knob, 100 PPD     1     RVH-124-200     35     Back Body     1     OH-VIT-1332       8     PM O-Ring     1     OH-VIT-010     37     Yoke assembly     1     VRH-162-200       9     Rate Valve Sleeve     1     RVH-124-200     35     Back Body     1     VRH-162-500       10     Retainer Clip     1     VRH-142-500     36     Vac20x 174* Body Screw     6     BTH-162-500       12 <th< td=""><td>3</td><td>Flag assembly</td><td>1</td><td>VRH-445-500</td><td>20</td><td>Diaphragm Front Plate</td><td>1</td><td>VRH-269-500</td></th<>	3	Flag assembly	1	VRH-445-500	20	Diaphragm Front Plate	1	VRH-269-500
Bonnet Plug, 250 PPD     PLH-175-250     29     PM O-Ring     1     OH-VIT-028       6a     Rate Valve assembly, 100 PPD     1     RVH-118-003     31     PM O-Ring     1     OH-VIT-028       6a     Rate Valve assembly, 100 PPD     1     RVH-118-003     31     PM O-Ring     1     OH-VIT-029       7a     Rate Valve Stem & Knob, 100 PPD     1     RVH-659-002V     33     O-Ring     1     OH-VIT-156       7b     Rate Valve Stem & Knob, 100 PPD     1     RVH-659-002V     33     O-Ring     1     OH-VIT-322       9     Rate Valve Stem & Knob, 100 PPD     1     RVH-124-200     35     Back Body     1     VRH-162-500       9     Rate Valve Sterve     1     RVH-125-003     36     V-20 x 1/x <sup>1</sup> Body Screw     6     BTH-STa-124       10     PM O-Ring     1     OH-VIT-101     37     Yeke assembly     1     VRH-345-500       11     PM O-Ring     1     OH-VIT-101     38     Intel Valve Capsule assembly     1     VRH-345-500       12     PM O-Ring <td>4</td> <td><sup>™</sup>O-Ring</td> <td>3</td> <td>OH-VIT-012</td> <td>28</td> <td>PM Set of Two Diaphragms</td> <td>1</td> <td>DIH-106-500</td>	4	<sup>™</sup> O-Ring	3	OH-VIT-012	28	PM Set of Two Diaphragms	1	DIH-106-500
6a     Rate Valve assembly, 10 PPD     1     RVH-118-002V     30     Diaphragm Back Plate     1     VRH-363-500       6B     Rate Valve assembly, 100 PPD     1     RVH-118-003     31     P <sup>M</sup> O-Ring     1     OH-VIT-009       7a     Rate Valve Stem & Knob, 100 PPD     1     RVH-659-003     32     P <sup>M</sup> O-Ring     1     OH-VIT-156       7B     Rate Valve Stem & Knob, 100 PPD     1     RVH-659-003     33     O-Ring     1     OH-VIT-156       8     P <sup>M</sup> O-Ring     2     OH-VIT-006     34     Flow Tube     1     VRH-162-500       9     Rate Valve Bonnet, 250 PPD     1     RVH-125-003     36     V <sub>2</sub> -20 x 1 <sup>3</sup> / <sub>4</sub> Body Screw     6     BTH-STa-124       11     P <sup>M</sup> O-Ring     1     OH-VIT-101     37     Yoke assembly     1     VRH-142-500       12     P <sup>M</sup> O-Ring     1     OH-VIT-101     38     * Retainer Clip     1     VRH-142-500       13     Top Meter Block     1     MBH-110-100     39     Inlet Valve Capsule assembly     1     VRH-143-500	5	Bonnet Plug, 250 PPD	1	PLH-175-250	29	<sup>PM</sup> O-Ring	1	OH-VIT-028
68   Rate Valve assembly, 100 PPD   1   RVH-118-003   31   P <sup>™</sup> O-Ring   1   OH-VIT-009     7a   Rate Valve Stem & Knob, 100 PPD   1   RVH-659-002V   32   P <sup>™</sup> O-Ring   1   OH-VIT-132     8   P <sup>™</sup> O-Ring   2   OH-VIT-006   34   Flow Tube   1   OH-VIT-332     8   P <sup>™</sup> O-Ring   1   RVH-124-200   35   Back Eddy   1   VRH-162-200     9   Rate Valve Bonnet, 250 PPD   1   RVH-124-200   35   Back Eddy   1   VRH-162-200     10   Rate Valve Bonnet, 250 PPD   1   RVH-125-003   36   '/-2.0 X 13/+' Eody Screw   6   BTH-STa-124     11   P <sup>™</sup> O-Ring   1   OH-VIT-101   37   Yoke assembly   1   VRH-346-500     12   P <sup>™</sup> O-Ring   1   OH-VIT-101   39   Inlet Valve Capsule assembly   1   VRH-345-500     13   Top Meter Block   1   MBH-110-100   39   Inlet Valve Capsule assembly   1   VRH-133-500     14   P <sup>™</sup> Meter Gasket, 10 PPD   2   GaH-VIT-102   41   Vent Plug	6a	Rate Valve assembly, 10 PPD	1	RVH-118-002V	30	Diaphragm Back Plate	1	VRH-363-500
7a   Rate Valve Stem & Knob, 10 PPD   1   RVH-659-0027   32   PM O-Ring   1   OH-VIT-166     7B   Rate Valve Stem & Knob, 100 PPD   1   RVH-659-003   33   O-Ring   1   OH-VIT-332     8   MO-Ring   2   OH-VIT-006   34   Flow Tube   1   VRH-162-500     9   Rate Valve Bonnet, 250 PPD   1   RVH-124-200   35   Back Body   1   VRH-160-200     10   Rate Valve Sleeve   1   RVH-125-003   36   '/20 x 1/*' Body Screw   6   BTH-STa-124     11   PM-O-Ring   1   OH-VIT-110   37   Yoke assembly   1   VRH-486-500     12   PM-O-Ring   1   OH-VIT-110   38   * Retainer Clip   1   VRH-142-500     14 a PM Meter Gasket, 10 PPD   2   GaH-VIT-102   41   Vent Plug   1   VRH-489-501     14A PM Meter Gasket, 10 PPD   2   GaH-VIT-103   42   Spring Retainer   1   VRH-182-500     15B   Meter Tube, 0.6 PPD   1   MTH-108-006   43   Spring Holder   1   VRH-182-500	6B	Rate Valve assembly, 100 PPD	1	RVH-118-003	31	™O-Ring	1	OH-VIT-009
7B   Rate Valve Stem & Knob, 100 PPD   1   RVH-659-003   33   O-Ring   1   OH-VIT-322     8   PW O-Ring   2   OH-VIT-006   34   Flow Tube   1   VRH-162-500     9   Rate Valve Bonnet, 250 PPD   1   RVH-124-000   35   Back Body   1   VRH-162-500     10   Rate Valve Bleeve   1   RVH-124-000   36   U-20x 1/4." Body Screw   6   BTH-STa-124     11   P <sup>M</sup> O-Ring   1   OH-VIT-101   37   Yoke assembly   1   VRH-366-500     13   Top Meter Block   1   OH-VIT-101   38   * Reatiner Clip   1   VRH-469-501     14 a <sup>PM</sup> Meter Gasket, 10 PPD   2   GaH-VIT-101   40   V:-20x 2/3." Back Plate Screw   2   BTH-STa-125     14 B <sup>PM</sup> Meter Gasket, 10 PPD   2   GaH-VIT-102   41   Vent Plug   1   VRH-183-500     15a   Meter Gasket, 10 PPD   2   GaH-VIT-102   41   Vent Plug   1   VRH-183-500     15b   Meter Tube, 0.5 PPD   1   MTH-108-006   43   Spring Retainer   1   VRH-11	7a	Rate Valve Stem & Knob, 10 PPD	1	RVH-659-002V	32	<sup>PM</sup> O-Ring	1	OH-VIT-156
8     PM O-Ring     2     OH-VIT-006     34     Flow Tube     1     VRH-162-500       9     Rate Valve Bonnet, 250 PPD     1     RVH-124-200     36     9/-/-20 x 19/." Body Screw     6     BTH-STa-124       10     Rate Valve Sleeve     1     RVH-125-003     36     1/-/-20 x 19/." Body Screw     6     BTH-STa-124       11     PM O-Ring     1     OH-VIT-101     37     Yoke assembly     1     VRH-465-500       12     PM O-Ring     1     OH-VIT-100     38     * Retainer Clip     1     VRH-442-500       13     Top Meter Block     1     MBH-110-100     39     Inlet Valve Capsule assembly     1     VRH-442-500       14a     PM Meter Gasket, 10 PPD     2     GaH-VIT-101     40     1/-/-20 x 29/4."Back Plate Screw     2     BTH-STa-125       14b     PM Meter Gasket, 100 PPD     2     GaH-VIT-103     42     Spring Retainer     1     VRH-135-500       156     Meter Tube, 0.6 PPD     1     MTH-108-006     43     Spring Holder     1     VRH-135-500	7 B	Rate Valve Stem & Knob, 100 PPD	1	RVH-659-003	33	O-Ring	1	OH-VIT-332
9     Rate Valve Bonnet, 250 PPD     1     RVH-124-200     35     Back Body     1     VRH-160-200       10     Rate Valve Sleeve     1     RVH-125-003     36     //-20x 13/a* Body Screw     6     BTH-STa-124       11     P*O-Ring     1     OH-VIT-100     37     Yoke assembly     1     VRH-346-500       12     P*O-Ring     1     OH-VIT-101     38     * Retainer Clip     1     VRH-469-501       14     P*M deter Gasket, 10 PPD     2     GaH-VIT-101     40     //-20x 23/a* Back Plate Screw     2     BTH-STa-125       14B     P*M Meter Gasket, 100 PPD     2     GaH-VIT-103     42     Spring Retainer     1     VRH-111-500       15a     Meter Gasket, 100 PPD     2     GaH-VIT-103     42     Spring Retainer     1     VRH-113-500       15b     Meter Tube, 0.6 PPD     1     MTH-108-006     43     Spring Retainer     1     VRH-113-500       15D     Meter Tube, 10 PPD     1     MTH-108-001     46     P*M O-Ring     1     OH-VIT-212	8	PM O-Ring	2	OH-VIT-006	34	Flow Tube	1	VRH-162-500
10   Rate Valve Sleeve   1   RVH-125-003   36   '/-20 x 13/-'' Body Screw   6   BTH-STa-124     11   P <sup>M</sup> O-Ring   1   OH-VIT-010   37   Yoke assembly   1   VRH-36500     13   Top Meter Block   1   OH-VIT-110   38   * Retainer Clip   1   VRH-346500     14   P <sup>M</sup> O-Ring   1   OH-VIT-110   40   '/-20 x 23/-'' Back Plate Screw   2   BTH-STa-125     148   P <sup>M</sup> Meter Gasket, 10 PPD   2   GaH-VIT-101   40   '/-20 x 23/-'' Back Plate Screw   2   BTH-STa-125     14C   P <sup>M</sup> Meter Gasket, 100 PPD   2   GaH-VIT-103   42   Spring Retainer   1   VRH-113-500     15a   Meter Tube, 0.6 PPD   1   MTH-108-006   43   Spring Holder   1   VRH-113-500     15b   Meter Tube, 1.5 PPD   1   MTH-108-004   46   P <sup>M</sup> Seal Plug   1   VRH-182-500     15b   Meter Tube, 50 PPD   1   MTH-108-010   46   P <sup>M</sup> O-Ring   1   VRH-142-500     15b   Meter Tube, 50 PPD   1   MTH-108-050   48   <	9	Rate Valve Bonnet, 250 PPD	1	RVH-124-200	35	Back Body	1	VRH-160-200
11   PM O-Ring   1   OH-VIT-010   37   Yoke assembly   1   VRH-346-500     12   PM O-Ring   1   OH-VIT-110   38   * Retainer Clip   1   VRH-346-500     13   Top Meter Block   1   MBH-110-100   39   Inlet Valve Capsule assembly   1   VRH-346-501     14a   PM Meter Gasket, 10 PPD   2   GaH-VIT-101   40   1/4-20 X 2 <sup>3</sup> /a Back Plate Screw   2   BTH-STa-125     14B   PM Meter Gasket, 100 PPD   2   GaH-VIT-102   41   Vent Plug   1   VRH-111-500     155   Meter Tube, 0.6 PPD   1   MTH-108-006   43   Spring Retainer   1   VRH-1813-500     155   Meter Tube, 1.5 PPD   1   MTH-108-004   45   PM Seal Plug   1   VRH-182-500     155   Meter Tube, 2.5 PPD   1   MTH-108-004   45   PM Seal Plug   1   VRH-182-500     155   Meter Tube, 50 PPD   1   MTH-108-004   45   PM O-Ring   1   OH-VIT-212     155   Meter Tube, 50 PPD   1   MTH-108-025   47   Inlet Capsule	10	Rate Valve Sleeve	1	RVH-125-003	36	1/4-20 x 13/4" Body Screw	6	BTH-STa-124
12   PM O-Ring   1   OH-VIT-110   38   * Retainer Clip   1   VRH-142-500     13   Top Meter Block   1   MBH-110-100   39   Inlet Valve Capsule assembly   1   VRH-469-501     14a   PM Meter Gasket, 10 PPD   2   GaH-VIT-102   40   '/a-20 x 2'/a'' Back Plate Screw   2   BTH-STa-125     14B   PM Meter Gasket, 100 PPD   2   GaH-VIT-103   42   Spring Retainer   1   VRH-113-500     15a   Meter Tube, 0.6 PPD   1   MTH-108-006   43   Spring Retainer   1   VRH-113-500     15B   Meter Tube, 1.5 PPD   1   MTH-108-006   43   Spring Holder   1   VRH-113-500     15C   Meter Tube, 4 PPD   1   MTH-108-004   45   PM Seal Plug   1   VRH-1142-500     15E   Meter Tube, 25 PPD   1   MTH-108-025   47   Inlet Capsule   1   VRH-112-501     15E   Meter Tube, 50 PPD   1   MTH-108-025   47   Inlet Capsule   1   VRH-112-501     15E   Meter Tube, 100 PPD   1   MTH-108-025   47 <td< td=""><td>11</td><td><sup>™</sup>O-Ring</td><td>1</td><td>OH-VIT-010</td><td>37</td><td>Yoke assembly</td><td>1</td><td>VRH-346-500</td></td<>	11	<sup>™</sup> O-Ring	1	OH-VIT-010	37	Yoke assembly	1	VRH-346-500
13     Top Meter Block     1     MBH-110-100     39     Inlet Valve Capsule assembly     1     VRH-469-501       14a     PM Meter Gasket, 10 PPD     2     GaH-VIT-101     40     '/₄-20 x 2 <sup>3</sup> /₄" Back Plate Screw     2     BTH-STa-125       14B     PM Meter Gasket, 25 PPD     2     GaH-VIT-103     42     Spring Retainer     1     VRH-113-500       15a     Meter Tube, 0.6 PPD     1     MTH-108-006     43     Spring Holder     1     VRH-113-500       15B     Meter Tube, 1.5 PPD     1     MTH-108-0015     44     Inlet Spring     1     VRH-182-500       15C     Meter Tube, 4 PPD     1     MTH-108-001     46     PM O-Ring     1     OH-VIT-212       15E     Meter Tube, 50 PPD     1     MTH-108-025     47     Inlet Capsule     1     VRH-142-500       15F     Meter Tube, 50 PPD     1     MTH-108-026     48     PM Valve Seat     1     VRH-110-500       15G     Meter Tube, 50 PPD     1     MTH-108-010     49     PM O-Ring     1     VRH-141-501	12	<sup>™</sup> O-Ring	1	OH-VIT-110	38	* Retainer Clip	1	VRH-142-500
14 a PM Meter Gasket, 10 PPD   2   GaH-VIT-101   40   '/4-20 x 2'/4" Back Plate Screw   2   BTH-STa-125     14 B PM Meter Gasket, 25 PPD   2   GaH-VIT-102   41   Vent Plug   1   VRH-111-500     14 C PM Meter Gasket, 100 PPD   2   GaH-VIT-103   42   Spring Retainer   1   VRH-183-500     15 Meter Tube, 0.6 PPD   1   MTH-108-006   43   Spring Holder   1   VRH-183-500     15 Meter Tube, 1.5 PPD   1   MTH-108-0015   44   Inlet Spring   1   SPH-104-000     15 Meter Tube, 10 PPD   1   MTH-108-004   45   PM Seal Plug   1   VRH-182-500     15 Meter Tube, 25 PPD   1   MTH-108-005   47   Inlet Capsule   1   VRH-141-501     15 F Meter Tube, 50 PPD   1   MTH-108-005   48   PM O-Ring   1   VRH-141-500     15 G Meter Tube, 100 PPD   1   MTH-108-005   48   PM O-Ring   1   VRH-141-500     16 Bottom Meter Block   1   MBH-109-100   50   Inlet Valve   1   VRH-112-500     18 PM O-Ring   3   OH-VIT-112	13	Top Meter Block	1	MBH-110-100	39	Inlet Valve Capsule assembly	1	VRH-469-501
14B PM Meter Gasket, 25 PPD   2   GaH-VIT-102   41   Vent Plug   1   VRH-111-500     14C PM Meter Gasket, 100 PPD   2   GaH-VIT-103   42   Spring Retainer   1   VRH-183-500     15a Meter Tube, 0.6 PPD   1   MTH-108-006   43   Spring Holder   1   VRH-183-500     15B Meter Tube, 1.5 PPD   1   MTH-108-0015   44   Inlet Spring   1   SPH-104-000     15C Meter Tube, 10 PPD   1   MTH-108-004   45   PM Seal Plug   1   VRH-182-500     15D Meter Tube, 10 PPD   1   MTH-108-010   46   PM O-Ring   1   OH-VIT-212     15E Meter Tube, 50 PPD   1   MTH-108-025   47   Inlet Capsule   1   VRH-141-501     15F Meter Tube, 100 PPD   1   MTH-108-050   48   PM Valve Seat   1   VRH-141-500     15G Meter Tube, 100 PPD   1   MTH-108-010   49   PM O-Ring   1   VRH-145-500     16   Bottom Meter Block   1   MBH-109-100   50   Inlet Valve   1   VRH-182-500     18   PM O-Ring   3   OH-VIT-112	14a	<sup>™</sup> Meter Gasket, 10 PPD	2	GaH-VIT-101	40	1/4-20 x 23/4" Back Plate Screw	2	BTH-STa-125
14C F <sup>M</sup> Meter Gasket, 100 PPD   2   GaH-VIT-103   42   Spring Retainer   1   VRH-183-500     15a   Meter Tube, 0.6 PPD   1   MTH-108-006   43   Spring Holder   1   VRH-113-500     15B   Meter Tube, 1.5 PPD   1   MTH-108-0015   44   Inlet Spring   1   SPH-104-000     15C   Meter Tube, 4 PPD   1   MTH-108-004   45   PM Seal Plug   1   VRH-182-500     15D   Meter Tube, 10 PPD   1   MTH-108-010   46   PM O-Ring   1   OH-VIT-212     15E   Meter Tube, 25 PPD   1   MTH-108-025   47   Inlet Capsule   1   VRH-114-501     15F   Meter Tube, 50 PPD   1   MTH-108-050   48   PM Valve Seat   1   VRH-112-500     15G   Meter Tube, 100 PPD   1   MTH-108-000   50   Inlet Valve   1   VRH-112-500     17   Meter Inlet, 250 PPD   1   MIH-102-000   51   FM Filter Stop   1   VRH-112-500     18   F <sup>M</sup> O-Ring   3   OH-VIT-112   52   F <sup>M</sup> Inlet Screen   1   VRH-1	14B	<sup>™</sup> Meter Gasket, 25 PPD	2	GaH-VIT-102	41	Vent Plug	1	VRH-111-500
15a   Meter Tube, 0.6 PPD   1   MTH-108-006   43   Spring Holder   1   VRH-113-500     15B   Meter Tube, 1.5 PPD   1   MTH-108-0015   44   Inlet Spring   1   SPH-104-000     15C   Meter Tube, 1.5 PPD   1   MTH-108-004   45   PM Seal Plug   1   VRH-182-500     15D   Meter Tube, 10 PPD   1   MTH-108-010   46   PM O-Ring   1   OH-VIT-212     15E   Meter Tube, 25 PPD   1   MTH-108-025   47   Inlet Capsule   1   VRH-141-501     15F   Meter Tube, 100 PPD   1   MTH-108-050   48   PM Valve Seat   1   VRH-112-500     15G   Meter Tube, 100 PPD   1   MTH-108-100   49   PM O-Ring   1   OH-VIT-011     16   Bottom Meter Block   1   MBH-109-100   50   Inlet Valve   1   VRH-112-500     17   Meter Inlet, 250 PPD   1   MIH-140-200   51   PM Filter Stop   1   VRH-145-500     18   PM O-Ring   3   OH-VIT-112   52   PM Inlet Screen   1   VRH-457	14C	<sup>™</sup> Meter Gasket, 100 PPD	2	GaH-VIT-103	42	Spring Retainer	1	VRH-183-500
15B   Meter Tube, 1.5 PPD   1   MTH-108-0015   44   Inlet Spring   1   SPH-104-000     15C   Meter Tube, 4 PPD   1   MTH-108-004   45   PM Seal Plug   1   VRH-182-500     15D   Meter Tube, 10 PPD   1   MTH-108-010   46   PM O-Ring   1   OH-VIT-212     15E   Meter Tube, 25 PPD   1   MTH-108-025   47   Inlet Capsule   1   VRH-141-501     15F   Meter Tube, 50 PPD   1   MTH-108-050   48   PM Valve Seat   1   VRH-110-500     15G   Meter Tube, 100 PPD   1   MTH-108-050   48   PM O-Ring   1   OH-VIT-011     16   Bottom Meter Block   1   MBH-109-100   50   Inlet Valve   1   VRH-112-500     17   Meter Inlet, 250 PPD   1   MIH-140-200   51   PM Filter Stop   1   VRH-184-500     18   PM O-Ring   3   OH-VIT-112   52   PM Inlet Screen   1   VRH-457-500     19   6-32 x \$/16" Screw   2   BTH-STa-128   55   Lead Gasket   1   VRH-456-100 <td>15a</td> <td>Meter Tube, 0.6 PPD</td> <td>1</td> <td>MTH-108-006</td> <td>43</td> <td>Spring Holder</td> <td>1</td> <td>VRH-113-500</td>	15a	Meter Tube, 0.6 PPD	1	MTH-108-006	43	Spring Holder	1	VRH-113-500
15C   Meter Tube, 4 PPD   1   MTH-108-004   45   PM Seal Plug   1   VRH-182-500     15D   Meter Tube, 10 PPD   1   MTH-108-010   46   PM O-Ring   1   OH-VIT-212     15E   Meter Tube, 25 PPD   1   MTH-108-025   47   Inlet Capsule   1   VRH-141-501     15F   Meter Tube, 50 PPD   1   MTH-108-050   48   PM Valve Seat   1   VRH-110-500     15G   Meter Tube, 100 PPD   1   MTH-108-050   48   PM O-Ring   1   VRH-110-500     15G   Meter Tube, 100 PPD   1   MTH-108-100   49   PM O-Ring   1   VRH-112-500     16   Bottom Meter Block   1   MBH-109-100   50   Inlet Valve   1   VRH-112-500     17   Meter Inlet, 250 PPD   1   MIH-140-200   51   PM Filter Stop   1   VRH-184-500     18   PM O-Ring   3   OH-VIT-112   52   PM Inlet Screen   1   VRH-457-500     20   Face Plate   1   VRH-441-250   54   PM Teflon Filter (100 PPD max)   1   VRH-45	15 B	Meter Tube, 1.5 PPD	1	MTH-108-0015	44	Inlet Spring	1	SPH-104-000
15D   Meter Tube, 10 PPD   1   MTH-108-010   46   PM O-Ring   1   OH-VIT-212     15E   Meter Tube, 25 PPD   1   MTH-108-025   47   Inlet Capsule   1   VRH-141-501     15F   Meter Tube, 50 PPD   1   MTH-108-050   48   PM Valve Seat   1   VRH-110-500     15G   Meter Tube, 100 PPD   1   MTH-108-100   49   PM O-Ring   1   VRH-112-500     16   Bottom Meter Block   1   MBH-109-100   50   Inlet Valve   1   VRH-112-500     17   Meter Inlet, 250 PPD   1   MIH-140-200   51   PM Filter Stop   1   VRH-184-500     18   PM O-Ring   3   OH-VIT-112   52   PM Inlet Screen   1   VRH-101-500     19   6-32 x 5/16" Screw   2   BTH-STa-127   53   PM Filter Pad   1   VRH-456-100     20   Face Plate   1   VRH-441-250   54   PM Teflon Filter (100 PPD max)   1   VRH-456-100     21   10-24 x 3/16" PVC Screw   2   BTH-STa-128   55   Lead Gasket   1	15C	Meter Tube, 4 PPD	1	MTH-108-004	45	PM Seal Plug	1	VRH-182-500
15E   Meter Tube, 25 PPD   1   MTH-108-025   47   Inlet Capsule   1   VRH-141-501     15F   Meter Tube, 50 PPD   1   MTH-108-050   48   PM Valve Seat   1   VRH-110-500     15G   Meter Tube, 100 PPD   1   MTH-108-100   49   PM O-Ring   1   OH-VIT-011     16   Bottom Meter Block   1   MBH-109-100   50   Inlet Valve   1   VRH-112-500     17   Meter Inlet, 250 PPD   1   MIH-140-200   51   PM Filter Stop   1   VRH-184-500     18   PM O-Ring   3   OH-VIT-112   52   PM Inlet Screen   1   VRH-457-500     19   6-32 x 5/16" Screw   2   BTH-STa-127   53   PM Filter Pad   1   VRH-456-100     20   Face Plate   1   VRH-441-250   54   PM Teflon Filter (100 PPD max)   1   VRH-456-100     21   10-24 x 3/16" PVC Screw   2   BTH-STa-128   55   Lead Gasket   1   GaH-LED-1111     22   Seal Cover   1   VRH-140-500   *   PM art and Maintenance Kit   1	15D	Meter Tube, 10 PPD	1	MTH-108-010	46	<sup>PM</sup> O-Ring	1	OH-VIT-212
15F   Meter Tube, 50 PPD   1   MTH-108-050   48   PM Valve Seat   1   VRH-110-500     15G   Meter Tube, 100 PPD   1   MTH-108-100   49   PM O-Ring   1   OH-VIT-011     16   Bottom Meter Block   1   MBH-109-100   50   Inlet Valve   1   VRH-112-500     17   Meter Inlet, 250 PPD   1   MIH-140-200   51   PM Filter Stop   1   VRH-184-500     18   PM O-Ring   3   OH-VIT-112   52   PM Inlet Screen   1   VRH-457-500     19   6-32 x 5/16" Screw   2   BTH-STa-127   53   PM Filter Pad   1   VRH-456-100     20   Face Plate   1   VRH-137-500   54   PM Teflon Filter (100 PPD max)   1   VRH-456-100     21   10-24 x 3/16" PVC Screw   2   BTH-STa-128   55   Lead Gasket   1   GaH-LED-111     22   Seal Cover   1   VRH-140-500   *   Part of VRH-469-501 assembly   1   KTH-100-VRC     24   PM Sealing Diaphragm   1   DIH-102-500   *   Part of VRH-469-501 assembly	15E	Meter Tube, 25 PPD	1	MTH-108-025	47	Inlet Capsule	1	VRH-141-501
15G   Meter Tube, 100 PPD   1   MTH-108-100   49   PM O-Ring   1   OH-VIT-011     16   Bottom Meter Block   1   MBH-109-100   50   Inlet Valve   1   VRH-112-500     17   Meter Inlet, 250 PPD   1   MIH-140-200   51   PM Filter Stop   1   VRH-184-500     18   PM O-Ring   3   OH-VIT-112   52   PM Inlet Screen   1   VRH-101-500     19   6-32 x <sup>5</sup> / <sub>16</sub> " Screw   2   BTH-STa-127   53   PM Filter Pad   1   VRH-457-500     20   Face Plate   1   VRH-441-250   54   PM Teflon Filter (100 PPD max)   1   VRH-456-100     21   10-24 x <sup>3</sup> / <sub>16</sub> " PVC Screw   2   BTH-STa-128   55   Lead Gasket   1   GaH-LED-111     22   Seal Cover   1   VRH-140-500   PM   Part and Maintenance Kit   1   KTH-100-VRC     23   Guide Pin   1   DIH-102-500   Part of VRH-469-501 assembly   1   KTH-100-VRC	15 F	Meter Tube, 50 PPD	1	MTH-108-050	48	<sup>PM</sup> Valve Seat	1	VRH-110-500
16   Bottom Meter Block   1   MBH-109-100   50   Inlet Valve   1   VRH-112-500     17   Meter Inlet, 250 PPD   1   MIH-140-200   51   PM Filter Stop   1   VRH-184-500     18   PM O-Ring   3   OH-VIT-112   52   PM Inlet Screen   1   VRH-101-500     19   6-32 x <sup>5</sup> /16" Screw   2   BTH-STa-127   53   PM Filter Pad   1   VRH-457-500     20   Face Plate   1   VRH-441-250   54   PM Teflon Filter (100 PPD max)   1   VRH-456-100     21   10-24 x <sup>3</sup> /16" PVC Screw   2   BTH-STa-128   55   Lead Gasket   1   GaH-LED-111     22   Seal Cover   1   VRH-140-500   PM   Part and Maintenance Kit   1   KTH-100-VRC     23   Guide Pin   1   VRH-140-500   *   Part of VRH-469-501 assembly   1   KTH-100-VRC     24   PM Sealing Diaphragm   1   DIH-102-500   *   Part of VRH-469-501 assembly   1   KTH-100-VRC	15 G	Meter Tube, 100 PPD	1	MTH-108-100	49	<sup>PM</sup> O-Ring	1	OH-VIT-011
17   Meter Inlet, 250 PPD   1   MIH-140-200   51   PM Filter Stop   1   VRH-184-500     18   PM O-Ring   3   OH-VIT-112   52   PM Inlet Screen   1   VRH-101-500     19   6-32 x <sup>5</sup> / <sub>16</sub> " Screw   2   BTH-STa-127   53   PM Filter Pad   1   VRH-457-500     20   Face Plate   1   VRH-441-250   54   PM Teflon Filter (100 PPD max)   1   VRH-456-100     21   10-24 x <sup>3</sup> / <sub>16</sub> " PVC Screw   2   BTH-STa-128   55   Lead Gasket   1   GaH-LED-111     22   Seal Cover   1   VRH-140-500   PM   Part and Maintenance Kit   1   KTH-100-VRC     23   Guide Pin   1   VRH-140-500   PM art of VRH-469-501 assembly   1   KTH-100-VRC     24   PM Sealing Diaphragm   1   DIH-102-500   Part of VRH-469-501 assembly   1   KTH-100-VRC	16	Bottom Meter Block	1	MBH-109-100	50	Inlet Valve	1	VRH-112-500
18   PM O-Ring   3   OH-VIT-112   52   PM Inlet Screen   1   VRH-101-500     19   6-32 x 5/16" Screw   2   BTH-STa-127   53   PM Filter Pad   1   VRH-457-500     20   Face Plate   1   VRH-441-250   54   PM Teflon Filter (100 PPD max)   1   VRH-456-100     21   10-24 x 3/16" PVC Screw   2   BTH-STa-128   55   Lead Gasket   1   GaH-LED-111     22   Seal Cover   1   VRH-140-500   PM   Part and Maintenance Kit   1   KTH-100-VRC     23   Guide Pin   1   VRH-140-500   PM art of VRH-469-501 assembly   1   KTH-100-VRC     24   PM Sealing Diaphragm   1   DIH-102-500   Part of VRH-469-501 assembly   1   KTH-100-VRC	17	Meter Inlet, 250 PPD	1	MIH-140-200	51	<sup>PM</sup> Filter Stop	1	VRH-184-500
19   6-32 x 5/16" Screw   2   BTH-STa-127   53   PM Filter Pad   1   VRH-457-500     20   Face Plate   1   VRH-441-250   54   PM Teflon Filter (100 PPD max)   1   VRH-456-100     21   10-24 x 3/16" PVC Screw   2   BTH-STa-128   55   Lead Gasket   1   GaH-LED-111     22   Seal Cover   1   VRH-137-500   PM   Part and Maintenance Kit   1   KTH-100-VRC     23   Guide Pin   1   VRH-140-500   PM   Part of VRH-469-501 assembly   1   KTH-100-VRC     24   PM Sealing Diaphragm   1   DIH-102-500   Part of VRH-469-501 assembly   1   KTH-100-VRC	18	<sup>™</sup> O-Ring	3	OH-VIT-112	52	<sup>PM</sup> Inlet Screen	1	VRH-101-500
20   Face Plate   1   VRH-441-250   54   PM Teflon Filter (100 PPD max)   1   VRH-456-100     21   10-24 x <sup>3</sup> /16" PVC Screw   2   BTH-STa-128   55   Lead Gasket   1   GaH-LED-111     22   Seal Cover   1   VRH-137-500   PM   Part and Maintenance Kit   1   KTH-100-VRC     23   Guide Pin   1   VRH-140-500   PM   Part of VRH-469-501 assembly   1   KTH-100-VRC     24   PM Sealing Diaphragm   1   DIH-102-500   Part of VRH-469-501 assembly   1   KTH-100-VRC	19	6-32 x <sup>5</sup> /16" Screw	2	BTH-STa-127	53	<sup>PM</sup> Filter Pad	1	VRH-457-500
21   10-24 x <sup>3</sup> / <sub>16</sub> " PVC Screw   2   BTH-STa-128   55   Lead Gasket   1   GaH-LED-111     22   Seal Cover   1   VRH-137-500   PM   Part and Maintenance Kit   1   KTH-100-VRC     23   Guide Pin   1   VRH-140-500   PM   Part of VRH-469-501 assembly   1   KTH-100-VRC     24   P <sup>M</sup> Sealing Diaphragm   1   DIH-102-500   Part of VRH-469-501 assembly   1   KTH-100-VRC	20	Face Plate	1	VRH-441-250	54	PM Teflon Filter (100 PPD max)	1	VRH-456-100
22Seal Cover1VRH-137-50023Guide Pin1VRH-140-50024 <sup>™</sup> Sealing Diaphragm1DIH-102-500	21	10-24 x <sup>3</sup> / <sub>16</sub> " PVC Screw	2	BTH-STa-128	55	Lead Gasket	1	GaH-LED-111
23Guide Pin1VRH-140-500*Part of VRH-469-501 assembly24 <sup>PM</sup> Sealing Diaphragm1DIH-102-500*	22	Seal Cover	1	VRH-137-500	PM	Part and Maintonanco Kit	1	
24 <sup>PM</sup> Sealing Diaphragm 1 DIH-102-500	23	Guide Pin	1	VRH-140-500	*	Fait and Waittenance Kil Dart of VDH-460-501 accombly	I	
	24	<sup>™</sup> Sealing Diaphragm	1	DIH-102-500		Fait of VKH-409-501 assembly		



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No.	Description	Quantit	y No.
1	Vent Plug	1	VRH-111-500
2	Spring Retainer	1	VRH-183-500
3	Spring Holder	1	VRH-113-500
4	Inlet Spring	1	SPH-104-000
5	Seal Plug	1	VRH-182-500
6	O-Ring	1	OH-VIT-212
7	O-Ring	1	OH-VIT-112
8	Inlet Capsule	1	VRH-141-501
9	Retainer Clip	1	VRH-142-500
10	Valve Seat	1	VRH-110-500
11	O-Ring	1	OH-VIT-011
12	Inlet Valve	1	VRH-112-500
13	Filter Stop	1	VRH-184-500
14	Inlet Screen	1	VRH-101-500
15	Fiberglass Filter Pad	1	VRH-457-500
16	* Teflon Filter (100 PPD max	x) 1	VRH-456-100
17	Lead Gasket	1	GaH-LED-111



6

7

8

9

10

PM Set of Two Support

<sup>PM</sup> Rolling Diaphragm

PM Check Assembly Nut

1

1

1

1

1

1

1

KY-1

SM-112

E-552

S-145

E-551

UN-102-099D

UN-101-16

Diaphragms

Bottom Body

11 A \* Nozzle (50 PPD max)

Spring

11 B \* Nozzle

E-1063

KT1-100-EJS

1

1

Refer to nozzle sizing charts for correct sizing.

Diffuser (Threaded)

Part and Maintenance Kit

EJECTOR

14

ΡM

ENCH



ltem No.	Description	Quantity	Part No.
1	PM 1/4" NPT 1/2" Tube Tubing Connector	1	BKF-84
2	Bolt 5/16-18 x 41/2" (stainless)	4	B-57
3	Top Body (250 PPD)	1	E-550-250
4	™ O-Ring	1	OH-VIT-203
5	<sup>™</sup> Check Assembly Bolt	1	E-553
6	<sup>₽м</sup> Set of Two Support Diaphragms	1	KY-1
7	<sup>PM</sup> Rolling Diaphragm	1	SM-112
8	<sup>PM</sup> Check Assembly Nut	1	E-552
9	Spring	1	S-145
10	Bottom Body	1	E-551
11	Bolt <sup>3</sup> / <sub>16</sub> -16 x 5" (stainless)	2	B-59
12	Nozzle/Diffuser Brackets	2	EJB-425
13A	* Nozzle – .250 (1 <sup>1</sup> /4" NPT)	1	EN-250
13B	* Nozzle – .275 (1 <sup>1</sup> / <sub>4</sub> " NPT)	1	EN-275
13C	* Nozzle – .290 (1 <sup>1</sup> / <sub>4</sub> " NPT)	1	ENX-290
13D	* Nozzle – .300 (1 <sup>1</sup> / <sub>4</sub> " NPT)	1	EN-296
13E	* Nozzle – .375 (1 <sup>1</sup> / <sub>4</sub> " NPT)	1	EN-375
14	<sup>PM</sup> O-Ring	2	OH-VIT-214
15	Nut <sup>5</sup> /16 -18 (stainless)	4	N-56
16A	* Throat – .380 (11/4" NPT)	1	EDT-380
16B	* Throat – .560 (11/4" NPT)	1	EDT-560
17	Nut <sup>3</sup> / <sub>16</sub> -16 (stainless)	2	N-58
PM	Part & Maintenance Kit (250 PPD)	1	KT2-250-EJS
*	Refer to nozzle sizing charts for correct sizing.		





Item No.	Description	Quantity	Part No.
1	PM 1/2" NPT 5/8" Tube Tubing Connector	1	BKF-108
2	Bolt <sup>5</sup> / <sub>16</sub> -18 x 4 <sup>1</sup> / <sub>2</sub> " (stainless)	4	B-57
3	Top Body (500 PPD)	1	E-550-500
4	<sup>™</sup> O-Ring	1	OH-VIT-203
5	PM Check Assembly Bolt	1	E-553
6	<sup>PM</sup> Set of Two Support Diaphragms	1	KY-1
7	<sup>₽</sup> Rolling Diaphragm	1	SM-112
8	<sup>PM</sup> Check Assembly Nut	1	E-552
9	Spring	1	S-145
10	Bottom Body	1	E-551
11	Bolt <sup>3</sup> / <sub>8</sub> -16 x 5" (stainless)	2	B-59
12	Nozzle/Diffuser Brackets	2	EJB-425
13A	* Nozzle – .250 (1 ¼" NPT)	1	EN-250
13B	* Nozzle – .290 (1 ¼" NPT)	1	ENX-290
13C	* Nozzle – .300 (1 <sup>1</sup> /4" NPT)	1	EN-296
13D	* Nozzle – .375 (1 <sup>1</sup> /4" NPT)	1	EN-375
14	<sup>PM</sup> O-Ring	2	OH-VIT-214
15	Nut <sup>5</sup> / <sub>16</sub> -18 (stainless)	4	N-56
16A	* Throat – .380 (11/4" NPT)	1	EDT-380
16B	* Throat – .560 (11/4" NPT)	1	EDT-560
17	Nut <sup>3</sup> /8-16 (stainless)	2	N-58
PM	Part & Maintenance Kit (500 PPD)	1	KT7-500-EJS
*	Refer to nozzle sizing charts for correct sizing.		
		ENCHLO	

BILL OF MATERIALS

**EJECTOR** Dwg. No. EJ-5000, BOM



ltem No.	Description	Quantity	Part No.
1	PM 1/2" NPT 5/8" Tube Tubing Connector	1	BKF-108
2	<sup>5</sup> / <sub>16</sub> -18 x 4" Bolt	4	BTH-STA-136
3	Top Body	1	EJH-237-500
4	PM O-Ring	1	OH-CEM-210
5	™ Diaphragm Bolt	1	EJH-236-500
6	PM Set of Two Support Diaphragms	1	DIH-105-500
7	™ Diaphragm	1	DIH-104-500
8	™ Diaphragm Nut	1	EJH-146-500
9	Spring	1	SPH-106-000
10	Bottom Body	1	EJH-153-500
11	<sup>3</sup> / <sub>8</sub> -14 x 4 <sup>1</sup> / <sub>2</sub> " Bolt	2	BTH-STA-145
12	Flange	2	EJH-136-500
13 A	* Nozzle240	1	ENX-240
13 B	* Nozzle250	1	TNH-187-250
13 C	* Nozzle290	1	ENX-290
13 D	* Nozzle300	1	TNH-187-300
13 E	* Nozzle375	1	TNH-187-375
14	<sup>PM</sup> O-Ring	2	OH-VIT-214
15	<sup>5</sup> /16-18 Nut	4	NTH-STA-104
16 A	* Throat310	1	TTH-189-310
16 B	* Throat380	1	TTH-189-386
16C	* Throat560	1	TTH-189-562
17	<sup>3</sup> / <sub>8</sub> Nut	2	NTH-STA-106
РМ	Part & Maintenance Kit	1	KTH-500-EJO
*	Refer to nozzle sizing charts for correct sizing.		



Part tity No.	KT1-100-SOM KT2-250-SOM	KT7-500-SOM																				Γ	0		L OF MATERIALS g. No. SP-XXX, BOM
Quan	~ ~																						ر ۲ – 10	- 20	
Description	Part & Maintenance Kit (100 PPD)	Part & Maintenance Kit (500 PPD)																					5	~	<b>ENCHLÖR</b> SWITCHOVER MODUL
ltem No.	N N	ΡM																							
Part No.	BKF-64	BKF-04 BKF-108	#10-24 × 1"	SM-106-250	SM-106-500	OH-VIT-023	SM-104	YM-103-HC	SM-105	SM-Assembly	SM-103	OH-VIT-203	SM-100	SM-102	SM-101	SM-108	SM-109	14-20 x 12"	SM-110	SM-112	SM-111	SM-107-250	SM-107-500	1⁄4-20 x 1 ½"	oled as the
uantity	<i>с</i> с	იო	4	<del></del>	<del></del>	-	<del>.</del>	-	<del>.</del>	<del></del>	-	2	<del>.</del>	<del>.                                    </del>	7	-	<del></del>	2	2	2	7	2	2	ω	e-assemt bly"
Description	PM 3%" Tube 1/4" NPT Tubing Connctor	PM 581 TUDE 74 INPT FUDING CONNECTOR	#10-24 x 1" Top Cap screw (Monel)	Top Cap (for SP-100 and SP-200)	Top Cap (for SP-500)	PM O-Ring	Spring Pin Guide	Spring (Hastelloy)	Spring Guide Pin	Toggle Assembly	* Spring Pivot	PM * O-Ring	* Valve Plug	* Pivot Arm	* Hinge Pin	Center Body	Mounting Bracket	Mounting Bolt (Zinc-plated)	Diaphragm Bolt	PM Rolling Diaphragm	Diaphragm Nut	End Cap (for SP-100, SP-200)	End Cap (for SP-500)	¼-20 x 1 ½" End Cap screw (Monel)	Items 9, 10, 11, 12, and 13 are sold pr Toggle Assembly (Item 8), "SM-Assem
ltem No.	4 t 4 t	<u> </u>	2	3A	3B	4	S	9	7	ω	6	10	11	12	13	41	15	16	17	18	19	20 A	20B	21	*



No.	Description	Quantity	Part No.
1 A	Rate Valve Stem & Knob (10 PPD)	1	VP-103C-010
1B	Rate Valve Stem & Knob (100 PPD)	1	VP-103C-100
2	Rate Valve Knob	1	RV-100A
3	Rate Valve Knob Set Screw	1	#5-40 x <sup>1</sup> /4"
4	Valve Bonnet	1	VB-100C
5	<sup>PM</sup> O-Ring	1	OH-VIT-106
6	Top Meter Block	1	FM-100B
7	<sup>PM</sup> O-Ring	2	OH-VIT-110
8	Rate Valve Seat	1	VT-104
9	<sup>PM</sup> O-Ring	1	OH-VIT-012
10A	<sup>₽м</sup> Meter Gasket (1.5-10 PPD)	2	MG-001-010
10B	<sup>PM</sup> Meter Gasket (25 PPD)	2	MG-001-025
10C	<sup>PM</sup> Meter Gasket (50-120 PPD)	2	MG-001-100
11A	Meter Tube, 1.5 PPD	1	MTB-11-0015
11B	Meter Tube, 4 PPD (75 gr/hr)	1	MTB-11-004
11C	Meter Tube, 10 PPD (200 gr/hr)	1	MTB-11-010
11D	Meter Tube, 25 PPD (500 gr/hr)	1	MTB-11-025
11E	Meter Tube, 50 PPD (1000 gr/hr)	1	MTB-11-050
11F	Meter Tube, 100 PPD (2000 gr/hr)	1	MTB-11-100
11G	Meter Tube, 120 PPD (2500 gr/hr)	1	MTB-11-120
12	Bottom Meter Block	1	FM-103
13	Inlet Plug	1	FM-101A
14	PM O-Ring	2	OH-VIT-112
15	PM 1/4" NPT 3/8" Tube Tubing Connector	2	BKF-64
16	Back Body	1	RM-1-250
17	Remote Meter Block Screws (Monel)	4	#10-24 x 1 <sup>1</sup> /4
18	<sup>1</sup> /4" NPT Plug (PVC)	1	PLH-108-250
	Part & Maintonanco Kit (100 PPD)	1	KT4_100_PM



ltem No.	Description	Q	uantity	Part No.
1	Pate Valve Stem & Knob (250 PPD)		1	\/P-203C
2	Rate Valve Knob		1	RV-1004
3	Rate Valve Knob Set Screw		1	#5-40 x 1/4"
3	Valve Bonnet		1	#3-40 X /₄
5			1	0H-1/IT-106
	O-Ming		I	On-vii-100
6	Top Meter Block		1	FM-200B
7	<sup>PM</sup> O-Ring		2	OH-VIT-110
8	Rate Valve Seat		1	VT-204
9	<sup>PM</sup> O-Ring		1	OH-VIT-016
10	PM Top Meter Gasket		1	MG-200T
11	Motor Tube, 250 DDD (5 kg/br)		1	MTP 11 250
10	PM Pottom Motor Cooket		1	MG 001 100
12	Bottom Motor Block		1	EM 102
14			1	FM-103
14			ו כ	
10	·····O-King		2	08-011-112
16	PM 1/4" NPT 1/2" Tube Tubing Connector		2	BKF-84
17	Back Body		1	RM-2-250
18	Remote Meter Block Screws (Monel)		4	#10-24 x 1 <sup>1</sup> /4"
19	1/4" NPT Plug (PVC)		1	PLH-108-250
РМ	Part & Maintenance Kit (250 PPD)		1	KT2-250-RMP
		<b>ENCHLOR</b>	BIL	L OF MATERIALS
		250 PPD REMOTE METER	Dwg. No.	RM-200, BOM



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