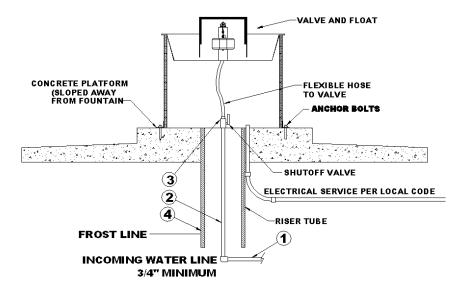
# Installation Instructions for



# **OmniFount**

Congratulations, you have just purchased the finest watering fountain on the market. This unit is built to give you excellent service when properly installed and maintained. Please follow instructions carefully. Read and understand all instructions before installing

# OmniFount 1, 2 and 2 SP; OmniFount 3, 5 and 10 Installation Instructions

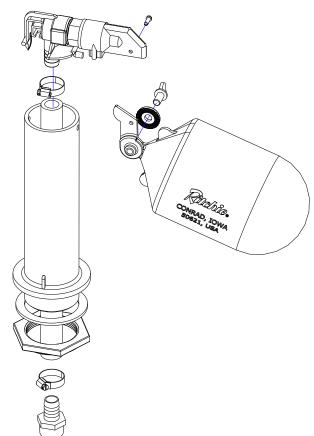


- **A.** Location Putting the fountain in a location that offers protection from the wind will enhance the performance of the fountain. Livestock will tend to gather in this protected area, enticing them to drink more. Access panel should be opposite of prevailing winter wind to give additional protection to the supply line.
- B. Water Supply Line Horizontal underground water line should be sized to account for pressure drop, relating to distance, and placed one foot below frost line. A one-inch vertical supply pipe is recommended. A shut-off valve should be installed under fountain to allow for easier servicing. For optimum serviceability, a stop and waste valve can be installed below frost level to drain water when unit is not in use. Vertical supply line must be centered in riser tube to provide an air space between the line and frozen ground outside of tube. Flush water supply line thoroughly before connection to fountain. Water supplies with foreign material such as sand, rust, etc. may require a filter to keep fountain valve working properly.
- C. **Electric Supply** It is generally most cost effective to run your electrical supply line at the same time you are trenching for your water supply. **Any electrical service must be installed and maintained by a qualified electrician.**
- D. **Riser Tube** Install a riser tube and extend it at least one foot below frost line or down to horizontal underground water line. For optimum water line protection, use the 12" diameter insulated *Ritchie Thermal Tube*, part numbers and sizes are shown to the right. Tube opening must be kept clear. **NOTE**: The supply line touching the riser tube is the most common cause of the supply line freezing. Do not surround the supply line with insulation, wood, or other foreign material. Any foreign material in the tube may cause frost to migrate to the supply line causing it to freeze.

| Ritchie Thermal Tube |                |  |  |  |  |
|----------------------|----------------|--|--|--|--|
| Part #               | Description    |  |  |  |  |
| 18158                | 1' Top Section |  |  |  |  |
| 16417                | 2' Top Section |  |  |  |  |
| 16612                | 4' Top Section |  |  |  |  |
| 16416                | 2' Extension   |  |  |  |  |

E. **Mounting Platform** - A concrete platform must be provided for all fountains. Use a minimum of 4" thick, (6" recommended thickness), large enough to accommodate fountain, and additional 4" step (on top of the platform) extending 18" out from each side of the unit. This will protect the unit from manure handling equipment, as well as discouraging animals from defecating in the fountain. Extending the platform provides animals a place to stand while drinking, consider the size of your animals when determining the dimensions of your platform. The concrete step and platform should slope away from the fountain for drainage. A rough broom finish to concrete surface provides better footing for livestock.

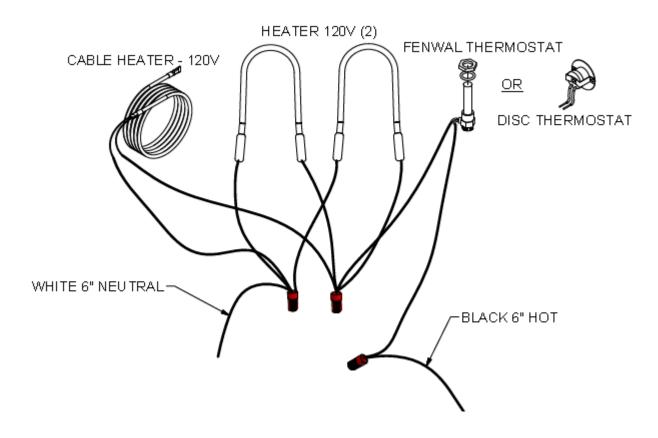
- **F.** Hose Connection Connect hose fitting to shut-off valve at top of concrete. Slip on barb fitting with furnished clamps. Hose should not touch insulation or outside surface of fountain. Place the hose under the fountain as you move the unit in place over the riser tube.
- **G. Preparing the bottom -** Apply the provided foam weather stripping to the bottom of the unit, along the outside edge of the fountain.
- H. **Anchoring Fountain** OmniFount 1 is provided with 3 hold-down pockets to anchor the unit securely to the concrete. OmniFount 2, OmniFount 2 SP & OmniFount 3 are provided with four hold-down pockets and the OmniFount 5 & 10 have 6 molded hold-down pockets. The use of 3/8" x 5" stainless steel expansion anchor bolts (not included) is recommended. Anchor bolts are available from Ritchie in a two pack, part #16555. Remove the side access panel to prepare for the remainder of the installation process.
- I. Valve Assembly for Omni 3, Omni 5 & Omni 10 The valve assembly can be put together before proceeding. The following instructions apply to the OmniFount 3, 5 & 10 (Omni 1, 2 & 2 SP are pre-assembled)
  - Install standpipe into hole in trough. Rubber washer is to be on inside of trough. Tighten nut hand tight to allow for adjustment after valve assembly is installed.
  - 2. Feed hose up through standpipe and attach to valve bracket. The hose may be shortened if necessary. Tighten the hose clamp securely to prevent leaks.
  - 3. The lower front peg on valve bracket should be inserted into hole on standpipe first. Compress valve clip to snap in opposite hole on standpipe.
  - 4. Remove pin from valve assembly.
  - 5. Install float assembly on valve assembly using previously removed pin.
  - Rotate standpipe in trough until center of float aligns with center of trough. DO NOT allow float to be too close to cover when installed as this may hamper valve performance.
  - 7. Tighten standpipe nut hand tight plus one-quarter turn. Use no joint compound for this fitting.
- J. **Final Water Connection** Connect the top of the supplied hose to the valve, cut hose to proper length and slip onto the barb fitting of the valve assembly. Clamps and fittings are furnished to secure the connection.
- K. Cable Heater Uncoil cable heater and loop around the valve. Attach the remaining part of the cable heater to the water supply, as far down the riser tube as possible with the cable twist ties provided. This heater is water tight, but should not be immersed in water.



**CAUTION:** Installation must not cause any strain on heater wiring connections. Do not cross the cable over itself along the water line. Avoid heater damage caused by hot spots due to its leads lying close to each other. Also, do not wrap additional insulation around heater.

L. **Electrical Connection** - The electrical installation should be made and maintained by a qualified electrician conforming to national and local codes. A means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules. Connect only to a properly-grounded circuit protected by a Ground-Fault Circuit-Interrupter (GFCI). For wiring connections, see wiring diagram. Make connections according to the wiring diagram below.

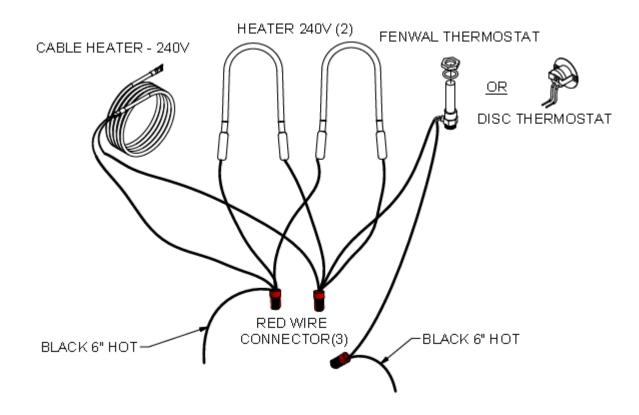
WARNING: DISCONNECT POWER IF THE WATER SUPPLY IS TO BE SHUT OFF FOR AN EXTENDED AMOUNT OF TIME. FAILURE TO TURN OFF POWER CAN RESULT IN DAMAGE TO THE WATERING FOUNTAIN.



**WIRING DIAGRAM 120V SINGLE PHASE** 

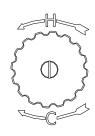
**NOTE:** National/Local electrical codes may require livestock waterers installed in feedlots in open feeding area to be grounded by a separate stranded copper grounding conductor or at least no.6 AWG terminating at a point where the branch circuit receives its supply. Check with local authorities.

**WARNING** This installation must be made and maintained in strict conformity with National/Local plumbing codes and National/Local electrical codes (CSA in Canada). The applicable provisions of these codes take precedent. Failure to make and maintain all installations properly may result in loss of livestock, personal Injury, or death.

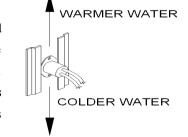


**WIRING DIAGRAM 240V SINGLE PHASE** 

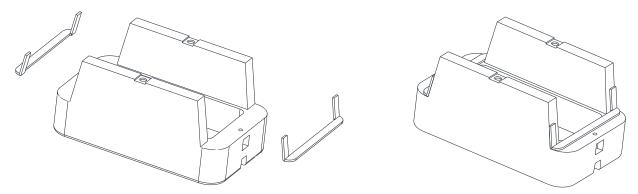
M. **Fenwal Thermostat** – (Omni 3, Omni 5 & Omni 10) The adjustable range is from  $0^{\circ}$ . F (-18° C) to  $100^{\circ}$  F (38° C). Thermostat is not preset at factory. Fill the trough to proper water level. Check the water temperature with a thermometer. The next morning, check the water temperature again. If the water is warmer than desired, turn the thermostat down. If there is ice forming on the surface of the water, turn the thermostat up. Only slight adjustments should be made to the thermostat at any time. A 1/16 turn on the thermostat will change the water temp.  $7^{\circ}$  F ( $4^{\circ}$  C).  $44^{\circ}$  F ( $7^{\circ}$  C) in the trough represents the most economical operation. Counter clockwise raises the thermostat setting.



N. **Disc Thermostat** – (Omni 1, Omni 2 and Omni 2 SP) The disc thermostat is mounted in a bracket under the trough, which allows it to be moved relative to the heater. To ease movement of thermostat turn ¼ turn. To lock in position after adjustment turn ¼ turn back. **As the thermostat is moved toward the heater, the water temperature in the trough is lowered**. The best location is determined by checking the trough temperature several times during the heating season.



- O. **Final Water Connection for Omni 1, Omni 2 and Omni 2 SP Only** Connect the top of the supplied hose to the valve, cut hose to proper length and slip onto the barb fitting of the valve assembly. Clamps and fittings are furnished to secure the connection. (This connection was already made in step "H" for the Omni 3 & 5.)
- P. **Drain Plug** Insert the drain plug firmly into the drain hole in the center of the trough.
- **Q. Valve Frame and Cover** (OmniFount 3 & 5) Before installing the valve chamber frame the weather seal must be installed on the frame (see picture below). The seal is installed by removing the paper backing from the adhesive side and then starting at the midpoint of the frame leg attach the seal to the frame. Work your way around the frame with the seal as close to the inside edge as possible and then up the other leg to the halfway point. At this time cut any extra foam seal as needed then repeat for other side.



THE FOAM SEAL MUST BE PLACE ON THE OMNI 3 & 5 FRAME AS SHOWN IN THE ABOVE PICTURES BEFORE THE INSTALLATION OF THE COVER AND FRAME. THE FOAM SEAL IS TO PREVENT COLD AIR FROM LEAKING INTO THE VALVE CHAMBER AND CAUSING THE VALVE TO FREEZE.

R. **Float Adjustment** – Open water-supply shut-off valve, check for and fix any leaks. Adjust float for a water depth of 2 inches below top of trough or overflow pipe by adjusting the thumbscrew or wing-nut. With the valve functioning properly and the water level set at the proper level, you may install the valve cover. The water seal groove between the frame and valve cover must be filled with liquid to create a protective seal from cold winter air getting to the valve.

- S. Install Side Access Panel Once all water line connections have been checked for leaks and electrical hook-up is complete, the side access door may be installed.
- T. Children should be supervised to ensure that they do not play with the appliance This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instructions concerning use of the appliance by a person responsible for their safety.
- U. Cleaning Your Fountain To clean your watering fountain you will need a good stiff bristled brush. Remove the cover then brush the water seal groove to remove any build-up then brush the tank. Remove the plug that is located in the valve chamber area under the float to drain out the water and debris. You can shut off the water with the shut-off valve located under the unit or by holding the float in the up position. After the water and debris has drained reinstall the plug and let the tank refill. Now is a good time to readjust the float if needed. Reinstall cover and you are done.

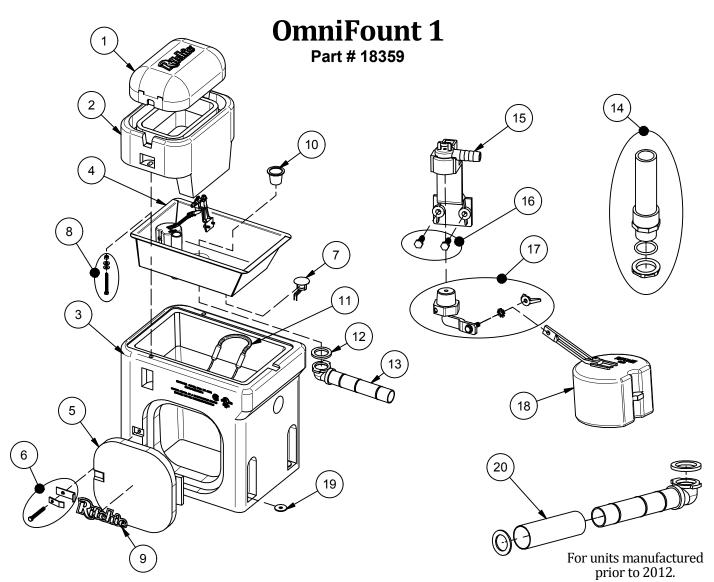
### Ritchie Valves

Ritchie valves come in two sizes and four pressure ratings - green for high supply line pressure, red for moderate supply pressure, and white for low-pressure applications. Differences in the size of trough also impacts valve choice. Although different pressure rated valves may be used in a fountain, each fountain will only accommodate one size and configuration of valve. Your individual situations may require a change from the standard valve supplied with your fountain, see your Ritchie Dealer if this is needed.

**NOTE**: The red ½" valve is standard on the OmniFount 1, 2 & 2 SP and the green ¾" valve is standard on the OmniFount 3, 5 & 10.

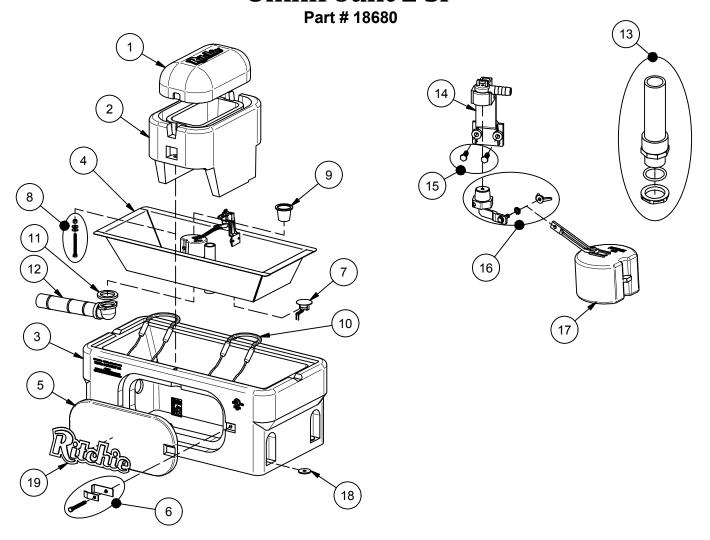
| 1/2"  | Part # | GPM  | Pressure Range                      |
|-------|--------|------|-------------------------------------|
| White | 12574  | 4.8  | Low, 5-40 psi. (34-275 kPa)         |
| Red   | 12575  | 3.4  | Moderate, 40-60 psi. (275-414 kPa)  |
| Green | 13597  | 1.45 | High, 60-80 psi. (414-552 kPa)      |
| 3/4"  | Part # | GPM  | Pressure Range                      |
| White | 16697  | 33   | Low, 5-40 psi (34-275 kPa)          |
| Red   | 11101  | 20   | Moderate, 40-60 psi (275-414 kPa)   |
| Green | 15377  | 16.5 | High, 60-80 psi (414-552 kPa)       |
| Blue  | 18197  | 5    | Very High, 80-100 psi (552-689 kPa) |

**Note:** Maximum inlet water pressure for each valve is shown above. If water pressure is extremely high, and if the valve does not shut off, a pressure-reducing valve may be needed.

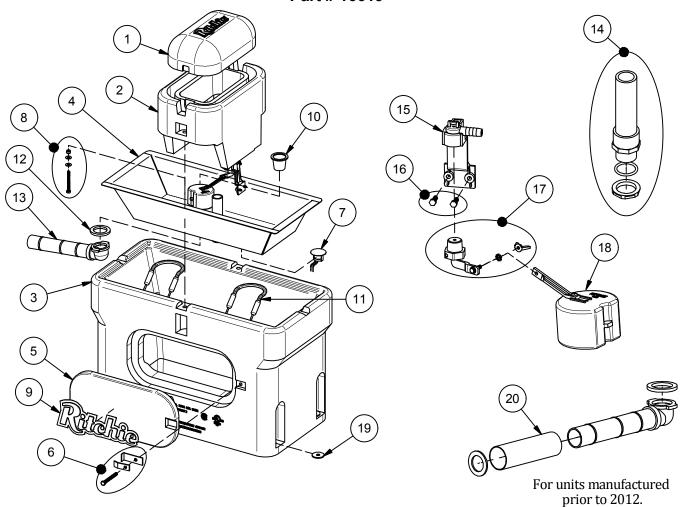


| Item | Part # | Description                   | Qty   | Item | Part # | Description                     | Qty   |
|------|--------|-------------------------------|-------|------|--------|---------------------------------|-------|
| 1    | 18422  | Omni 1 Cover                  | 1     | 15   | 11515  | Valve Bracket 1/2" w/ Scrws pkg | 1 pkg |
| 2    | 18473  | Omni 1 Frame pkg              | 1 pkg | 16   | 18066  | Screws Valve Bracket (6/ pkg)   | 1 pkg |
|      | 18474  | Omni 1 Cover & Frame pkg      | 1 pkg | 17   | 12575  | Red Valve 1/2" pkg              | 1 pkg |
| 3    | 18361  | Omni 1 Casing                 | 1     | 18   | 13613  | Float with Short Arm pkg        | 1 pkg |
| 4    | 18368  | Omni 1 Trough                 | 1 pkg | 19   | 18318  | Bolt Down Washer (4/pkg)        | 1 pkg |
| 5    | 18370  | Access Panel 10"x10"          | 1     | 20   | 17500  | Drain Pipe Guard                | 1     |
| 6    | 18147  | Access Panel Hardware pkg     | 1 pkg | NS   | 13830  | Cable Htr 120V 48W (1/pkg)      | 1 pkg |
| 7    | 11885  | Disc Thermostat pkg           | 1 pkg | NS   | 16627  | Omni 1 Accessory pkg            | 1 pkg |
| 8    | 18266  | Frame Bolt,nut&wshr SS(3/pkg) | 1 pkg | NS   | 16523  | Seal Foam 1/4"x3/4"x25' Roll    | 1     |
| 9    | 18655  | Ritchie Decal 7.5" (1/pkg)    | 1 pkg | NS   | 14866  | Seal Foam 1/2"x3/4"x10' Roll    | 1     |
| 10   | 18628  | Drain Plug (2/pkg)            | 1 pkg |      |        |                                 |       |
| 11   | 14150  | Heater 120V 125W (1/pkg)      | 1 pkg |      | 18362  | OMNI 1 240V                     |       |
| 12   | 18075  | Drain Washer (6/pkg)          | 1 pkg | NS   | 16664  | Heater 240V 200W (1/pkg)        | 1 pkg |
| 13   | 11471  | Drain Pipe with Elbow         | 1     | NS   | 16424  | Cable Htr 240V 48W (1/pkg)      | 1 pkg |
| 14   | 16866  | Standpipe pkg                 | 1 pkg |      |        |                                 |       |

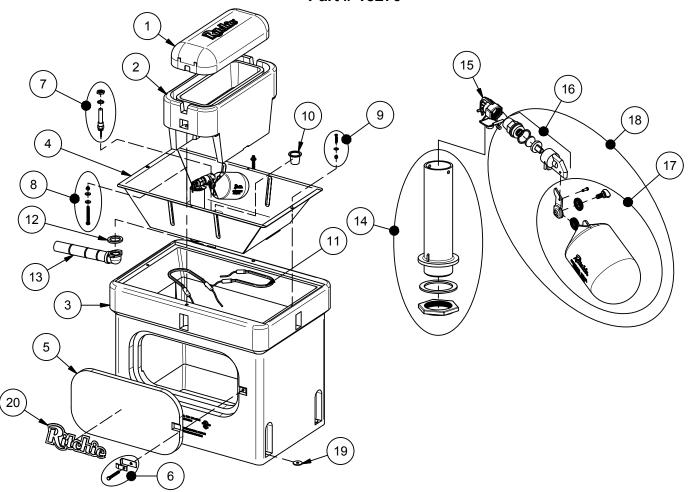
# **OmniFount 2 SP**



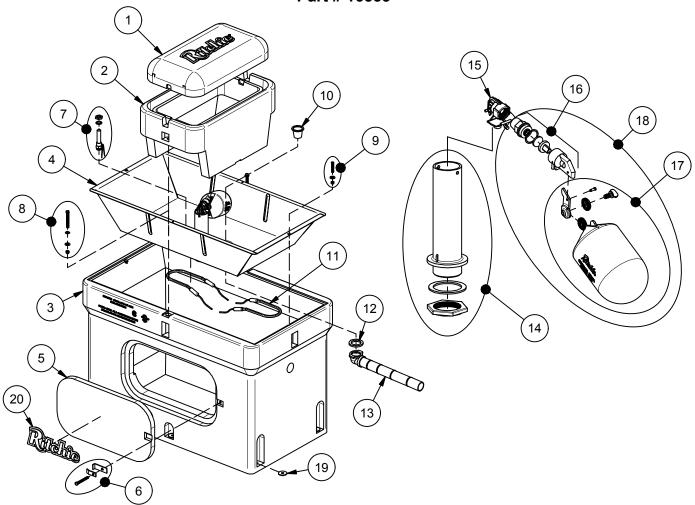
| Item | Part # | Description                   | Qty   | Item | Part # | Description                     | Qty   |
|------|--------|-------------------------------|-------|------|--------|---------------------------------|-------|
| 1    | 18424  | Omni 2 Cover                  | 1     | 14   | 11515  | Valve Bracket 1/2" w/ Scrws pkg | 1 pkg |
| 2    | 18347  | Omni 2 Frame pkg              | 1 pkg | 15   | 18066  | Screws Valve Bracket (6/ pkg)   | 1 pkg |
|      | 18348  | Omni 2 Cover & Frame pkg      | 1 pkg | 16   | 12575  | Red Valve 1/2" pkg              | 1 pkg |
| 3    | 18684  | Omni 2 SP Casing              | 1     | 17   | 13613  | Float with Short Arm pkg        | 1 pkg |
| 4    | 16616  | Omni 2 Trough                 | 1 pkg | 18   | 18318  | Bolt Down Washer (4/pkg)        | 1 pkg |
| 5    | 16621  | Access Panel 6"x14"           | 1     | 19   | 18653  | Ritchie Decal 12" (1/pkg)       | 1 pkg |
| 6    | 18147  | Access Panel Hardware pkg     | 1 pkg | NS   | 13830  | Cable Htr 120V 48W (1/pkg)      | 1 pkg |
| 7    | 11885  | Disc Thermostat pkg           | 1 pkg | NS   | 16627  | Omni 2 Accessory pkg            | 1 pkg |
| 8    | 18266  | Frame Bolt,nut&wshr SS(3/pkg) | 1 pkg | NS   | 16523  | Seal Foam 1/4"x3/4"x25' Roll    | 1     |
| 9    | 18628  | Drain Plug (2/pkg)            | 1 pkg | NS   | 14866  | Seal Foam 1/2"x3/4"x10' Roll    | 1     |
| 10   | 14150  | Heater 120V 125W (1/pkg)      | 2 pkg |      |        |                                 |       |
| 11   | 18075  | Drain Washer (6/pkg)          | 1 pkg |      | 18681  | OMNI 2 SP 240V                  |       |
| 12   | 11471  | Drain Pipe with Elbow         | 1     | NS   | 16664  | Heater 240V 200W (1/pkg)        | 2 pkg |
| 13   | 16866  | Standpipe pkg                 | 1 pkg | NS   | 16424  | Cable Htr 240V 48W (1/pkg)      | 1 pkg |



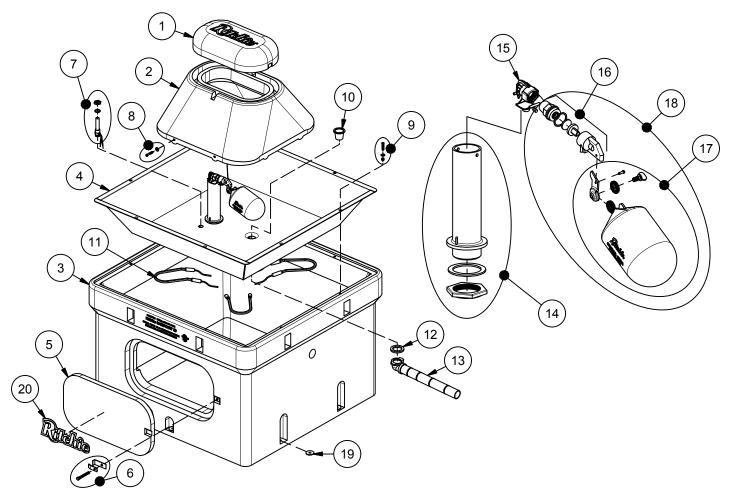
| Item | Part # | Description                   | Qty   | Item | Part # | Description                     | Qty   |
|------|--------|-------------------------------|-------|------|--------|---------------------------------|-------|
| 1    | 18424  | Omni 2 Cover                  | 1     | 15   | 11515  | Valve Bracket 1/2" w/ Scrws pkg | 1 pkg |
| 2    | 18347  | Omni 2 Frame pkg              | 1 pkg | 16   | 18066  | Screws Valve Bracket (6/ pkg)   | 1 pkg |
|      | 18348  | Omni 2 Cover & Frame pkg      | 1 pkg | 17   | 12575  | Red Valve 1/2" pkg              | 1 pkg |
| 3    | 16620  | Omni 2 Casing                 | 1     | 18   | 13613  | Float with Short Arm pkg        | 1 pkg |
| 4    | 16616  | Omni 2 Trough                 | 1 pkg | 19   | 18318  | Bolt Down Washer (4/pkg)        | 1 pkg |
| 5    | 16621  | Access Panel 6"x14"           | 1     | 20   | 17500  | Drain Pipe Guard                | 1     |
| 6    | 18147  | Access Panel Hardware pkg     | 1 pkg | NS   | 13830  | Cable Htr 120V 48W (1/pkg)      | 1 pkg |
| 7    | 11885  | Disc Thermostat pkg           | 1 pkg | NS   | 16627  | Omni 2 Accessory pkg            | 1 pkg |
| 8    | 18266  | Frame Bolt,nut&wshr SS(3/pkg) | 1 pkg | NS   | 16523  | Seal Foam 1/4"x3/4"x25' Roll    | 1     |
| 9    | 18653  | Ritchie Decal 12" (1/pkg)     | 1 pkg | NS   | 14866  | Seal Foam 1/2"x3/4"x10' Roll    | 1     |
| 10   | 18628  | Drain Plug (2/pkg)            | 1 pkg |      |        |                                 |       |
| 11   | 14150  | Heater 120V 125W (1/pkg)      | 2 pkg |      | 16844  | OMNI 2 240V                     |       |
| 12   | 18075  | Drain Washer (6/pkg)          | 1 pkg | NS   | 16664  | Heater 240V 200W (1/pkg)        | 2 pkg |
| 13   | 11471  | Drain Pipe with Elbow         | 1     | NS   | 16424  | Cable Htr 240V 48W (1/pkg)      | 1 pkg |
| 14   | 16866  | Standpipe pkg                 | 1 pkg |      |        |                                 |       |



| Item | Part # | Description                   | Qty   | П | Item | Part # | Description                  | Qty   |
|------|--------|-------------------------------|-------|---|------|--------|------------------------------|-------|
| 1    | 18418  | Omni 3 Cover                  | 1     |   | 15   | 11514  | Valve Bracket 3/4" pkg       | 1 pkg |
| 2    | 18345  | Omni 3 Frame pkg              | 1 pkg |   | 16   | 15377  | Green Male Valve 3/4" pkg    | 1 pkg |
|      | 18346  | Omni 3 Cover & Frame pkg      | 1 pkg |   | 17   | 18314  | Float with Hardware pkg      | 1 pkg |
| 3    | 18272  | Omni 3 Casing                 | 1     |   |      | 18313  | Hardware for Float pkg       | 1 pkg |
| 4    | 18342  | Omni 3 Trough                 | 1 pkg |   | 18   | 16993  | Green Valve & Float pkg      | 1 pkg |
| 5    | 16562  | Access Panel 10"x20"          | 1     |   | 19   | 18318  | Bolt Down Washer (4/pkg)     | 2 pkg |
| 6    | 18147  | Access Panel Hardware pkg     | 1 pkg |   | 20   | 18653  | Ritchie Decal 12" (1/pkg)    | 1 pkg |
| 7    | 16534  | Fenwal Thermostat SS pkg      | 1 pkg | П | NS   | 12583  | Valve Supply Line pkg        | 1 pkg |
|      | 18320  | O-Ring Fenwal (6/pkg)         | 1 pkg |   | NS   | 13830  | Cable Htr 120V 48W (1/pkg)   | 1 pkg |
|      | 18074  | Nut Brass Fenwal (6/pkg)      | 1 pkg |   | NS   | 16554  | Omni 3 Accessory pkg         | 1 pkg |
| 8    | 18319  | Frame Bolt & Wshr SS(2/pkg)   | 1 pkg |   | NS   | 16523  | Seal Foam 1/4"x3/4"x25' Roll | 1     |
| 9    | 18095  | Trough Screw & Nut SS (2/pkg) | 1 pkg |   | NS   | 14866  | Seal Foam 1/2"x3/4"x10' Roll | 1     |
| 10   | 18628  | Drain Plug (2/pkg)            | 1 pkg |   |      |        |                              |       |
| 11   | 11419  | Heater 120V 250W (1/pkg)      | 2 pkg |   |      | 18273  | OMNI 3 240V                  |       |
| 12   | 18075  | Drain Washer (6/pkg)          | 1 pkg |   | NS   | 11403  | Heater 240V 300W (1/pkg)     | 2 pkg |
| 13   | 11472  | Drain Pipe with Elbow         | 1     |   | NS   | 16424  | Cable Htr 240V 48W (1/pkg)   | 1 pkg |
| 14   | 16629  | Standpipe pkg                 | 1 pkg |   |      |        |                              |       |



| Item | Part # | Description                   | Qty   | Item | Part # | Description                  | Qty   |
|------|--------|-------------------------------|-------|------|--------|------------------------------|-------|
| 1    | 18426  | Omni 5 Cover                  | 1     | 15   | 11514  | Valve Bracket 3/4" pkg       | 1 pkg |
| 2    | 18343  | Omni 5 Frame pkg              | 1 pkg | 16   | 15377  | Green Male Valve 3/4" pkg    | 1 pkg |
|      | 18344  | Omni 5 Cover & Frame pkg      | 1 pkg | 17   | 18314  | Float with Hardware pkg      | 1 pkg |
| 3    | 16561  | Omni 5 Casing                 | 1     |      | 18313  | Hardware for Float pkg       | 1 pkg |
| 4    | 16631  | Omni 5 Trough                 | 1 pkg | 18   | 16993  | Green Valve & Float pkg      | 1 pkg |
| 5    | 16562  | Access Panel 10"x20"          | 1     | 19   | 18318  | Bolt Down Washer (4/pkg)     | 2 pkg |
| 6    | 18147  | Access Panel Hardware pkg     | 1 pkg | 20   | 18653  | Ritchie Decal 12" (1/pkg)    | 1 pkg |
| 7    | 16534  | Fenwal Thermostat SS pkg      | 1 pkg | NS   | 12583  | Valve Supply Line pkg        | 1 pkg |
|      | 18320  | O-Ring Fenwal (6/pkg)         | 1 pkg | NS   | 13830  | Cable Htr 120V 48W (1/pkg)   | 1 pkg |
|      | 18074  | Nut Brass Fenwal (6/pkg)      | 1 pkg | NS   | 16554  | Omni 5 Accessory pkg         | 1 pkg |
| 8    | 18319  | Frame Bolt & Wshr SS(2/pkg)   | 1 pkg | NS   | 16523  | Seal Foam 1/4"x3/4"x25' Roll | 1     |
| 9    | 18095  | Trough Screw & Nut SS (2/pkg) | 1 pkg | NS   | 14866  | Seal Foam 1/2"x3/4"x10' Roll | 1     |
| 10   | 18628  | Drain Plug (2/pkg)            | 1 pkg |      |        |                              |       |
| 11   | 11419  | Heater 120V 250W (1/pkg)      | 2 pkg |      | 16829  | OMNI 5 240V                  |       |
| 12   | 18075  | Drain Washer (6/pkg)          | 1 pkg | NS   | 11403  | Heater 240V 300W (1/pkg)     | 2 pkg |
| 13   | 11473  | Drain Pipe with Elbow         | 1     | NS   | 16424  | Cable Htr 240V 48W (1/pkg)   | 1 pkg |
| 14   | 16629  | Standpipe pkg                 | 1 pkg |      |        |                              |       |



| Item | Part # | Description                   | Qty   | Item | Part # | Description                  | Qty   |
|------|--------|-------------------------------|-------|------|--------|------------------------------|-------|
| 1    | 18462  | Omni 10 Cover                 | 1     | 15   | 11514  | Valve Bracket 3/4" pkg       | 1 pkg |
| 2    | 18464  | Omni 10 Frame                 | 1     | 16   | 15377  | Green Male Valve 3/4" pkg    | 1 pkg |
|      | 18472  | Omni 10 Cover & Frame pkg     | 1 pkg | 17   | 18314  | Float with Hardware pkg      | 1 pkg |
| 3    | 18466  | Omni 10 Casing                | 1     |      | 18313  | Hardware for Float pkg       | 1 pkg |
| 4    | 18469  | Omni 10 Trough pkg            | 1 pkg | 18   | 16993  | Green Valve & Float pkg      | 1 pkg |
| 5    | 16562  | Access Panel 10"x20"          | 1     | 19   | 18318  | Bolt Down Washer (4/pkg)     | 2 pkg |
| 6    | 18147  | Access Panel Hardware pkg     | 1 pkg | 20   | 18653  | Ritchie Decal 12" (1/pkg)    | 1 pkg |
| 7    | 16534  | Fenwal Thermostat SS pkg      | 1 pkg | NS   | 12583  | Valve Supply Line pkg        | 1 pkg |
|      | 18320  | O-Ring Fenwal (6/pkg)         | 1 pkg | NS   | 13830  | Cable Htr 120V 48W (1/pkg)   | 1 pkg |
|      | 18074  | Nut Brass Fenwal (6/pkg)      | 1 pkg | NS   | 16554  | Omni 10 Accessory pkg        | 1 pkg |
| 8    | 18471  | Frame Bolt & Wshr SS(4/pkg)   | 1 pkg | NS   | 16523  | Seal Foam 1/4"x3/4"x25' Roll | 1     |
| 9    | 18095  | Trough Screw & Nut SS (2/pkg) | 4 pkg | NS   | 14866  | Seal Foam 1/2"x3/4"x10' Roll | 1     |
| 10   | 18628  | Drain Plug (2/pkg)            | 1 pkg |      |        |                              |       |
| 11   | 11419  | Heater 120V 250W (1/pkg)      | 4 pkg |      | 18461  | OMNI 10 240V                 |       |
| 12   | 18075  | Drain Washer (6/pkg)          | 1 pkg | NS   | 11403  | Heater 240V 300W (1/pkg)     | 3 pkg |
| 13   | 11473  | Drain Pipe with Elbow         | 1     | NS   | 16424  | Cable Htr 240V 48W (1/pkg)   | 1 pkg |
| 14   | 16629  | Standpipe pkg                 | 1 pkg |      |        |                              |       |

## Ritchie Limited Warranty

Ritchie Industries, Inc. warrants its products to be free of defective materials and workmanship. Defective part(s) will be repaired or replaced at the option of Ritchie Industries. This warranty specifically excludes all labor and shipping charges.

This warranty does not apply to any appearance items, to any product whose exterior has been damaged or defaced, to any product that has been improperly installed, to any product subjected to misuse, abnormal service or handling, and to any products altered or repaired with other than original equipment or manufacturer's parts.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

All warranty claims must be processed through an Authorized Ritchie Dealer/ Distributor. **Proof of purchase is required. This warranty is not transferable.** The period of warranty begins at original date of purchase as follows:

## **Poly Units**

### Base, top and ball closures

10 year limited against manufacturing defect. 100% first five years, then declining 20% per year for the remaining five years.

### **Stainless Steel Units**

#### Stainless trough and stainless valve chamber frame:

Ten years against manufacturing defect or corrosion. 100% all ten years.

### Casing and cover:

10 year limited against manufacturing defect. 100% first year, then declining 10% per year for the remaining nine years.

#### **Component Parts**

# All component parts, such as floats, valves, heating elements:

One year from the date of purchase against manufacturing defect, 100%.

### **Hydrants**

### All component parts:

One year from the date of purchase against manufacturing defect, 100%.

**Trouble Shooting** 

|  | I rouble Shooting  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Problem                                | Solution   |  |  |  |  |  |
| Water in Trough Too                    | Adjust thermostat to lower temperature   |  |  |  |  |  |
| Warm                                   | Check to see if thermostat has failed by contacts burning closed   |  |  |  |  |  |
|  | Check fuses or circuit breakers  |  |  |  |  |  |
|  | Check all heating elements to make sure they are working and hot   |  |  |  |  |  |
|  | Adjust thermostat to higher temperature  |  |  |  |  |  |
| Ice in Trough                          | Check for voltage from thermostat output   |  |  |  |  |  |
|  | Check voltage to fountain with and without electrical load   |  |  |  |  |  |
|  | Check that heaters are wired properly  |  |  |  |  |  |
| Volvo Fronzina                         | Check that cable heater is installed properly and fastened to water supply line and is working when heaters are hot  |  |  |  |  |  |
| Valve Freezing                         | Check for missing or damaged insulation  |  |  |  |  |  |
|  | Check for air gaps for wind penetrations   |  |  |  |  |  |
|  | Check that the cable heater is uncoiled and fastened around valve, to supply line and is working when heaters are hot  |  |  |  |  |  |
|  | Check that supply piping is centered in riser tube   |  |  |  |  |  |
| Supply line Freezing                   | Check that riser tube is free of water and mud that may freeze   |  |  |  |  |  |
|  | Check that flexible hose does not touch side of casing or frame  |  |  |  |  |  |
|  | Check casing for air leaks   |  |  |  |  |  |
|  | Check for air gaps between casing and concrete floor   |  |  |  |  |  |
|  | Check float adjustment. Check for waterlogged float, or float rubbing on side of valve compartment   |  |  |  |  |  |
|  | Check for excessive system water pressure  |  |  |  |  |  |
| Valve won't stop dripping              | Disassemble valve and check for sand or scale in valve rubber. Also check valve orifice outlet for wear and damage. A screen or filter may be required with sandy or scaly water |  |  |  |  |  |
|  | Turn valve rubber over and re-assemble   |  |  |  |  |  |
| 1/2" Valve:  Valve Rubber  Pin must be | 3/4" Valve:  Pushed out of valve to  Valve Rubber  |  |  |  |  |  |
|  | Check that valve inlet is not plugged or supply hose is not kinked   |  |  |  |  |  |
|  | Check system pressure from supply hose by installing a tee and a pressure gauge  |  |  |  |  |  |
| Low water flow                         | directly in front of the valve to check pressure drop when valve is open. A severe   |  |  |  |  |  |
|  | pressure drop indicates a restriction or undersized supply system.   |  |  |  |  |  |
|  |  |  |  |  |  |  |

Check that shutoff valves are fully open