Valve Repair Instructions
Annovi Reverberi pump model numbers RMW2G25, RMW2.5G25, RMW2.5G27, and RMW2.5G25D-F7.

This document describes and illustrates how to remove and replace all 6 valves in specific RMW pumps from Annovi Reverberi (RMW2G25, RMW2.5G25, RMW2.5G27, and RMW2.5G25D-F7). For these pumps, use valve kit IPF AR42123.

For parts and additional information on these pumps, please visit www.IndustrialPartFinder.com or call us toll-free at 1-877-520-3698.

Discharge Valves - Disassembly:
1. Remove one of the three valve caps

[Yes, we realize that the valve caps on our pump do not match; this is a practice pump that we use for demonstrations and has parts from different RMW pumps. 😊]
2. Inspect the valve cap O-ring for any damage, replace if necessary.
3. Using a needle nose pliers remove the valve. If you don’t have needle nose pliers, take a screw and insert it in the hole at the top of the valve (white plastic cage visible), give it a slight turn to get a grip, then pull up gently.

4. Use a small probe to move the poppet up and down to assure that it is functioning properly.

5. Inspect for any debris that may be lodged between the poppet and seat.
6. Inspect the oring at the bottom of the assembly for damage.
7. If the valve is in pieces, comes apart during disassembly, or is corroded, replace with new valves from kit IPF AR2233 [link], IPF AR42123, or IPF AR42499. See below determine the valve kit you need.

Discharge Valves - Assembly:
1. Insert the valve assembly squarely into place, it should be pushed firmly against the pump head.
2. Install the valve cap and torque to the proper specifications (221 in/lbs per manufacturer).
Inlet Valves - Disassembly:
1. Remove the manifold.
   a. Remove the 3 bolts
   b. Pull straight out
   c. Note: some parts may stay attached to the plungers
2. Remove low pressure seals, insert screwdriver under seal lip and lift up.

3. Using pliers carefully remove the packing retainers (plunger guides).  
   NOTE: You do not want to damage these so they can be reused if not worn; place something between them and the pliers to protect them (unlike what we did in the picture below).

4. Remove the high-pressure packing by pulling straight out with your finger.
5. Pull out the valve cage/head ring assembly, valve poppet, spring and O-ring [see step 3 of the Discharge Valves - Disassembly instructions above].

6. Inspect for any debris or damage.

7. If the valve is in pieces, comes apart during disassembly, or is corroded, replace with new valves from kit IPF AR42123. See below determine the valve kit you need.

Below, RMW valves in pieces:

Below, RMW valve assembled:

Inlet Valves - Assembly:

1. Insert the valve assembly and push squarely into place.
2. Install the high-pressure packing by placing it into the cylinder at an angle and then pushing into place.
3. NOTE: The point of the “V” or flat side of the packing is pointed at you.
4. Lubricate the packing retainer O-ring with a light film of oil and install it into the cylinder.
5. Push it completely in place.
   NOTE: The O-ring will seat just inside the manifold and you will hear a slight pop.
6. Insert the low pressure seal by placing it into the cylinder in at an angle and pushing in place.
7. Put a thin coat of oil on the plungers and packings.
8. Carefully install the manifold and torque the bolt to the proper specifications (221 in/lbs per manufacturer).
Notes on RMW Valves:
1. Valve life is dependent on many variables. Hard water, cavitation, corrosion, chemicals and equipment care can limit how long they last. The valves are a wearable item and need periodic replacement. Worn o-rings or damaged valves will cause pressure loss and pulsations.
2. The pump used in this example uses valves from the IPF AR42123 kit; these valves have brass bases. Your RMW pump may use different valves. See below for the proper kit for your pump.
3. Use only the valves that were designed for your pump; using valves that were designed for a different pump (even if they are in the same family of pumps) is not a good idea. You will not get the proper pressure out of your machine.

Valve kit chart
IPF AR2233 - use in models RMW2G20, RMW2G23B, RMW2G24, and RMW2.2G24 only
IPF AR42123 - use in models RMW2G25, RMW2.5G25, RMW2.5G27, and RMW2.5G26D-F7 only
IPF AR42499 - use in SRMW pumps only