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## INSTALLATION INSTRUCTIONS

### RPI PART #AMP213 - PM PACK (WATER)

• PM PACK INCLUDES:

- S4 & S7: (2) RPI PART #CSK050 - SOLENOID VALVE REPAIR KIT
- CK5: (1) RPI PART #AMK227 - CHECK VALVE REPAIR KIT

• ALSO AVAILABLE:

- RPI PART #AMK217 - SEAT KIT (WATER)



**WARNING:** Turn off electrical power, bleed pressure from the manifold assembly and safely vent fluid prior to servicing the valve manifold assembly! When maintenance is complete, verify that the valve manifold assembly is operating properly before returning to service. Failure to do so could result in property damage, serious injury, or death!

**CAUTION:** Take care to not damage sealing surfaces, leakage may result.

### RPI PART #AMK227

### CHECK VALVE REPAIR KIT (Shown in Dark Blue in Figure 1)

#### REBUILD INSTRUCTIONS FOR CK5 CHECK VALVE

- Use a 7/8" wrench to remove the drain plug before servicing.
- Remove the hinge plate and manifold o-ring.
- Remove the pin and disc assembly from the hinge plate. *Note: If replacing the valve seat (.750" orifice), use a 1" deep socket wrench for valve seat removal. Clean the*

*manifold cavity and lubricate the valve seat o-ring with High Temp Lubricant (RPI Part #RPL090) or equivalent. Install and torque to 15 ft/lbs (175 +/- 25 in/lbs).*

- Clean the manifold cavity and hinge plate, lubricate the manifold o-ring using High Temp Lubricant (RPI Part #RPL090) and install into the manifold.
- Take notice of the off-set hole in the hinge plate and assemble the new disc assembly and pin onto the hinge plate accordingly.
- Reinstall the hinge plate/disc assembly finger tight. Tighten in a criss-cross pattern and final torque to 8 ft/lbs (95 +/- 10 in/lbs).

### RPI PART #CSK050

### SOLENOID VALVE REPAIR KIT (Shown in Purple in Figure 1)

#### REBUILD INSTRUCTIONS FOR S4 AND S7 VALVES

- Use a 7/8" wrench to remove the drain plug before servicing.
- Disassemble the solenoid coil.
- Remove the solenoid bonnet/base assembly and remove the diaphragm assembly, plunger assembly and manifold o-ring. *Note: If replacing the valve seats (.750" orifice) use a 1" deep socket wrench for valve seat removal. Clean the manifold cavity and apply a thin coat of High Temp Lubricant (RPI Part #RPL090) or equivalent to the o-rings, install new seats and torque to 15 ft/lbs (175 +/- 25 in/lbs).*
- Clean the manifold and all manifold cavities, install the new parts and apply a coating of High Temp Lubricant (RPI Part #RPL090) or equivalent to the manifold o-rings. A little extra grease on the manifold o-rings will help to hold them in place while installing the balance of new parts.
- Ensure that the wide end of the plunger spring goes into the plunger assembly.
- Holding the solenoid bonnet/base assembly horizontally, install the plunger assembly (along with the spring and diaphragm) into the solenoid bonnet/base assembly. **NOTE:** Ensure that the bleed hole in the diaphragm assembly is properly oriented.
- Reassemble the solenoid bonnet/base assembly and secure the assembly hand tight in place on the manifold.
- Tighten the mounting screws in a criss-cross manner and final torque to 7-1/2 ft/lbs (90 +/- 10 in/lbs).
- Reassemble the solenoid coil.

## FIGURE 1 - Exploded View of Water Manifold

### RPI PART #AMP213 - PM PACK (WATER)

• PM PACK INCLUDES:

- S4 & S7: (2) RPI PART #CSK050 - SOLENOID VALVE REPAIR KIT
- CK5: (1) RPI PART #AMK227 - CHECK VALVE REPAIR KIT

• ALSO AVAILABLE:

- RPI PART #AMK217 - SEAT KIT (WATER)

