Installing new BLEED DOWN VALVE components.

1. Insert the needle through the needle guide and seal as shown. Ensuring the small diameter of the needle guide faces towards the actuator and the red o-ring on the valve seal faces downward in the valve body.
2. Lubricate the o-ring on the valve seal and insert into the top of the valve body until the needle guide is flush to the top of the bore.
3. Thread (hand tighten) the actuator onto the top of the valve body. Reattach air-line to the top of the actuator.
4. Apply Blue Goop to the surface at the top of seat and to the surface of the seat where the needle seats.
5. Place the seat into the pilot diameter at the top of the outlet adapter and thread the adapter into the bottom of the valve body.
6. Torque the adapter to the valve using the two-wrench technique.
7. Reapply high-pressure water lines to the valve.
8. Turn pump on and apply water pressure to the bleed down valve assembly to verify there are no leaks

*The pump is now ready for use. Turn pump on and check for any leakage.

ON/OFF & BLEED DOWN VALVE REPAIR KIT MANUAL

#11328

Valve Body Components
The AccuStream ON/OFF & BLEED DOWN VALVE repair kit #11328 contains the following parts. 11010-SEAT, 11562-NEEDLE, 11043-VALVE SEAL, 12178-NEEDLE GUIDE, Dowel Rod.

When to Install New Valve Components

<table>
<thead>
<tr>
<th>ON/OFF VALVE</th>
<th>BLEED DOWN Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace the needle and seat when the nozzle tip is dripping.</td>
<td>X</td>
</tr>
<tr>
<td>Install a new seal when the top weep hole in the valve body is dripping.</td>
<td>X</td>
</tr>
<tr>
<td>Replace the needle guide when the fit between the guide and needle is loose. A worn guide ID may cause seals to fail due to ID extrusion.</td>
<td>X</td>
</tr>
<tr>
<td>Dripping from the inlet water connection usually indicates that the connection is not tight enough.</td>
<td>X</td>
</tr>
</tbody>
</table>

ON/OFF Valve Instructions

Removing the components.

NOTE: Before performing any of the following procedures, make sure that system is completely void of all high pressure water and that the pump is turned off.

1. Isolate the water pressure from the ON/OFF valve by dumping the pump pressure or closing the manual isolation valve.
2. With the actuator pressurized with air, unthread the adapter from the bottom of the valve body and remove the seat.
3. Turn the air to the actuator OFF and REMOVE the air-line from the top of the actuator.
4. Unthread the actuator from the top of the valve body.
5. With the valve body still in the mounting collar, remove the seal, needle guide and needle by pushing the dowel rod up through the bottom of the valve body.
6. Thoroughly wash out the interior of the Valve Body before replacing components.
Installing new ON/OFF VALVE components.

1. Insert the needle through the needle guide and seal as shown. Ensuring the small diameter of the needle guide faces towards the actuator and the red o-ring on the valve seal faces downward in the valve body.
2. Lubricate the o-ring on the valve seal and insert into the top of the valve body until the needle guide is flush to the top of the bore.
3. Thread (hand tighten) the actuator onto the top of the valve body. Reattach air to the actuator and turn actuator air pressure on to pull the needle valve up.
4. Apply Blue Goop to the surfaces at the top of seat and to the surface of the seat where the needle seats.
5. Place the seat into the pilot diameter at the top of the adapter and thread the adapter into the bottom of the valve. Torque the adapter to the valve using the two-wrench technique.
6. Turn off the air to the actuator.
7. Apply water pressure to the valve assembly to verify there are no leaks. Before installing the Cutting Head quickly cycle the Valve on and off a few times to purge all contaminants. Reinstall the Cutting Head and commence cutting.

Bleeding DOWN VALVE Instructions

Removing the BLEED DOWN VALVE components.

1. Remove the high-pressure lines from the Bleed Down Valve assembly.
2. Remove the air-line from the top of the actuator.
3. Remove the Bleed Down Valve Assembly from the pump.
4. Unthread the adapter from the bottom of the valve body and remove the seat from the bottom. Do not remove the Flow Reducer.
5. Unthread the actuator from the top of the valve body.
6. Remove the seal, needle guide and needle by pushing the dowel rod up through the bottom of the valve body.
7. Thoroughly wash out the interior of the Valve Body before replacing components.