

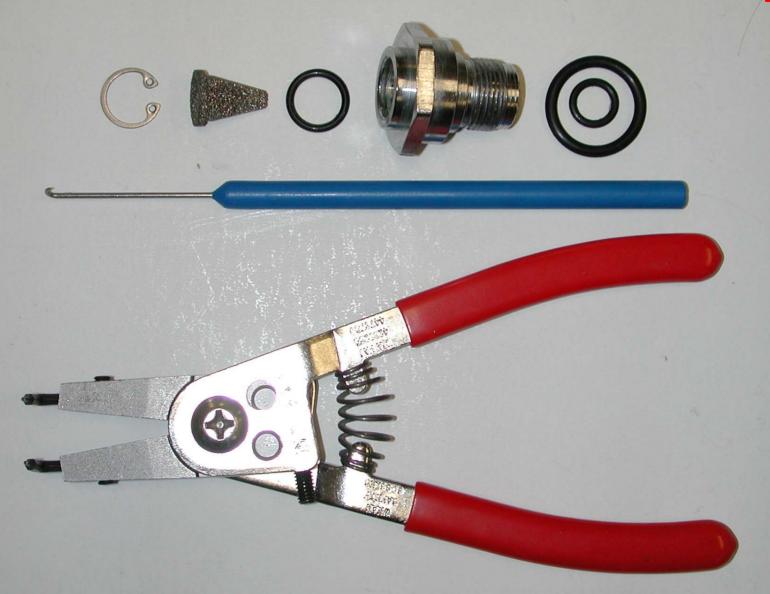
Remove & Inspect Hoses & Port Plugs



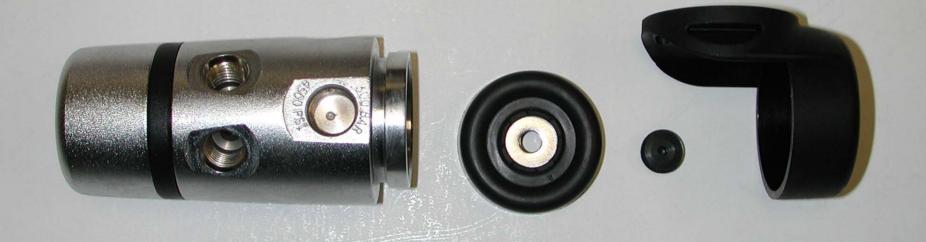
Remove Yoke & Retainer



Disassemble Retainer & Filter Assembly



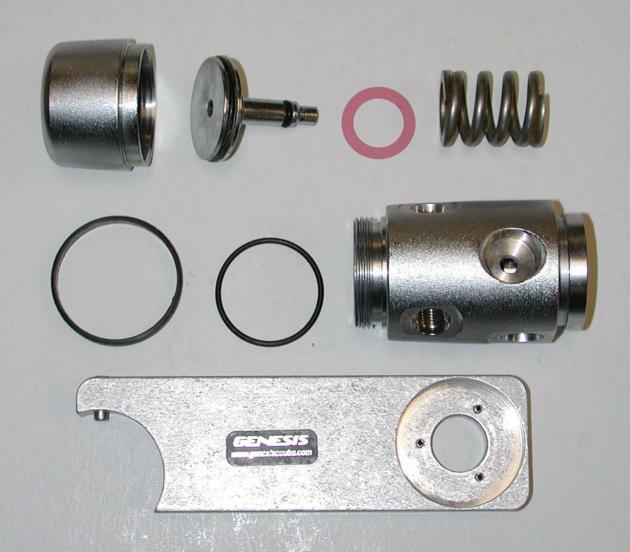
Remove Saddle, Diaphragm, & Vent Valve



Remove Orifice Retainer & Schraeder Valve



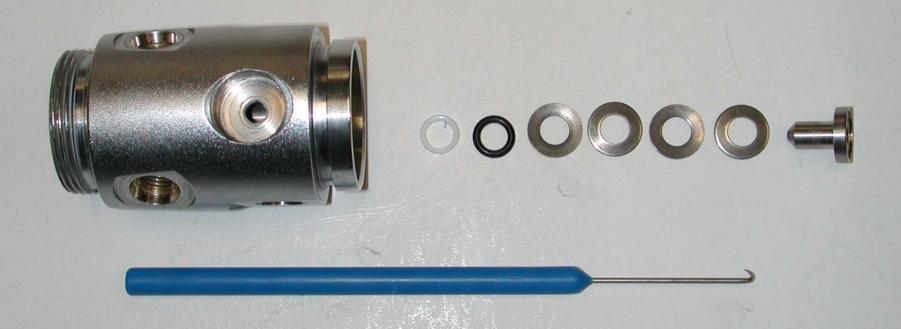
Remove End Cap, Piston & Spring



Disassemble Piston Assembly



Remove Orifice & Belleville Washers



Inspect and clean all metal parts.

Clean the orifice assembly separately from other metal parts.

Genesis recommends an ultrasonic cleaner and Lawrence Factor Wash (LFW) cleaning solution for 5 -10 minutes.

Neutralize the cleaning solution with 1:100 baking soda / water for 1-2 minutes.

Inspect and clean all hoses, fittings and soft parts.

Use a nylon brush, mild dish soap and warm water to clean soft parts.

Replace all parts included in the service kit.

GS2000 First Stage Assembly



Lightly lubricate all O-rings, the internal bore of the piston end cap, and the orifice bore.



Pinnacle recommends using Christo-Lube P/N 451277

Assemble Orifice Assembly



Verify The Belleville Washer Orientation



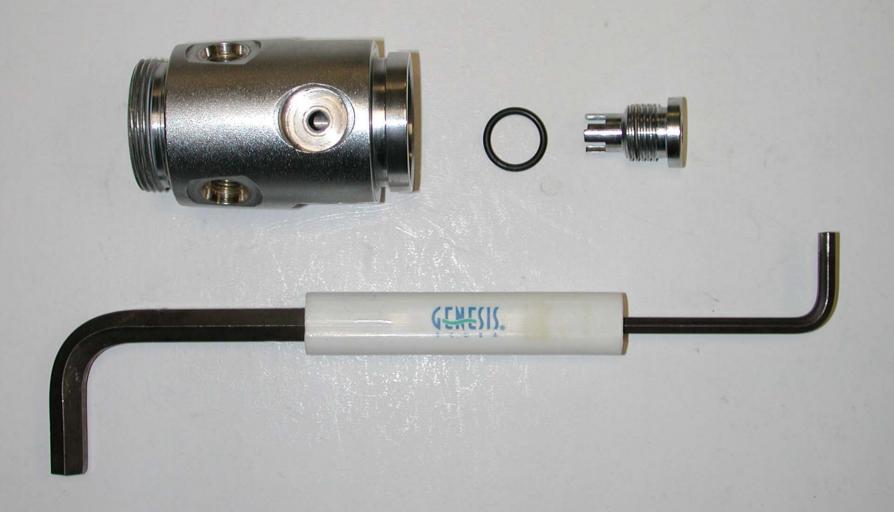
Install the Orifice Backup Ring



Install The Orifice Assembly



Install The Orifice Retainer 90 in. lbs.



Install The Schraeder Valve 6-6.5 in. lbs.



Install The Vent Valve & Diaphragm







Assemble The Piston Assembly

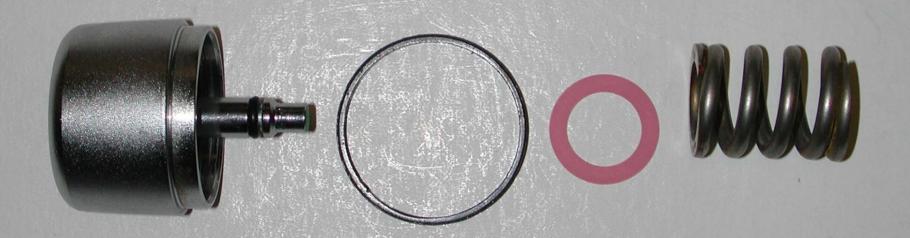


Insert The Piston Assembly Into The End Cap

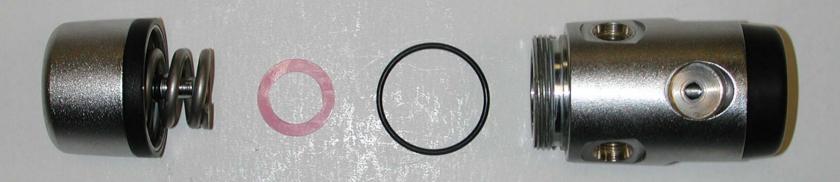




Install The Styling Ring, Any Extra Shims, And The Spring



Attach The End Cap, Piston & Spring Assemblies To The Body 120-140 in. lbs.

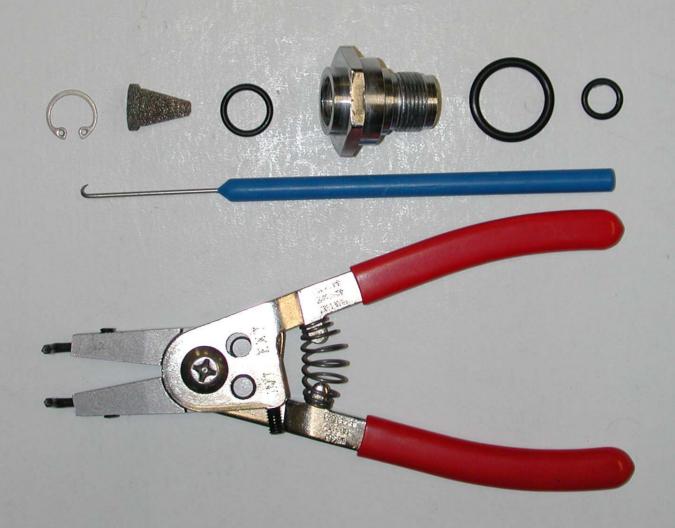




Install The Port Plugs & O-rings 35-40 in. lbs.



Assemble Yoke Retainer & Filter Assembly



Install The Saddle, Yoke & Yoke Retainer Assembly. 23-25 ft. lbs.



Install The Handwheel & Dust Cap



Attach To An Intermediate Pressure Gauge And Relief Valve



Test The Intermediate Pressure 140 psi ± 5 On A Cylinder Filled To 300 psi And Then On A Full Cylinder





Testing Schrader Valve Activation:

- Install the first stage onto a high pressure source so that the black plastic boot is pointing upward
- Pressurize the first stage. Supply pressure is not critical, but should be greater than 500 psi. Observe the IP to be sure that it is locked up and stable.
- Pull the syringe plunger outward to approximately 3/4 stroke.
- Place the tool onto the black plastic boot so that the lip of the tool indexes with the groove in the boot.

Testing Schrader Valve Activation

- Push down "hard" on the tool to insure an airtight seal between the tool o'ring and the boot.
- Rapidly push the plunger into the syringe. This action will momentarily apply a positive pressure of 10-15 psi on the diaphragm under the boot. This diaphragm movement will depress the Schrader valve stem allowing air to flow to the ambient piston chamber. This air surge will open the piston and increase the intermediate pressure approximately 5-10 psi.

