NOTE: Read these instructions through completely before attempting to rebuild valve. Layout all parts in the order that you remove them from valve. Doing this will aid you in reassembling valve. Number, in circle, corresponds to appropriate step below.

Valve is intended for use with hydraulic or oil based fluids ONLY. DO NOT USE WITH WATER.

To Disassemble Valve:
1. Remove cap.
2. Remove O-ring from cap, discard old O-ring.
3. Remove handle retaining nut.
4. Remove handle (grip on handle need not be removed).
5. Remove spring.
6. Remove spacing gland-plastic (omit steps 5 & 6 if repairing an 845 model throttle valve).
7. Remove gland (large nut under handle).
8. Remove stem by pulling stem through gland opening.

To Reassemble Valve:
Clean all threads before attempting to reassemble valve.

1. Take cam from repair kit and place between discs. Place cam and disc assembly in body, as shown in detail “A” (care must be taken to get cam into body exactly as shown in detail “A”. If cam is put into valve upside-down, valve will not open properly).
2. Take stem and O-ring assembly from repair kit and place in body through gland opening. NOTE: Stem has 2 O-rings.
3. Apply thread pipe dope to gland threads. NOTE: o-ring installed on gland.
4. Place gland over stem and install into body.
5. Place spacing gland (plastic) on stem.
6. Re-install spring (omit steps 5 & 6 if repairing an 845 model throttle valve).
7. Re-install handle.
8. Re-install handle retaining nut.
9. Place large O-ring from repair kit on cap. Apply thread pipe dope (from kit) on cap threads.
10. Reassemble cap to body.

WARNING: It is unlawful in CALIFORNIA & VERMONT (effective 1/1/2010); MARYLAND (effective 1/1/2012); LOUISIANA (effective 1/1/2013) and the UNITED STATES OF AMERICA (effective 1/4/2014) to use any product in the installation or repair of any public water system or any plumbing in a facility or system that provides water for human consumption if the wetted surface area of the product has a weighted average lead content greater than 0.25%. This prohibition does not extend to service saddles used in California, Louisiana or under USA Public Law 111-380.