TECH UPDATE

TB0821-02

FFSPRO UNIVERSITY

INSTALLING A 402 NOZZLE REFRESH KIT

Franklin Fueling Systems now makes it possible to refresh a 402 nozzle. Use the following instructions to do this refresh.

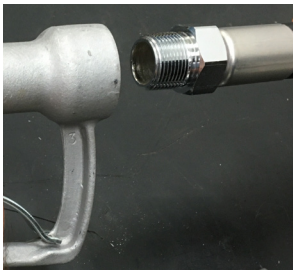
REQUIRED EQUIPMENT

- Service kit (part number 90003)
- 1⅜" socket wrench (with ratchet) or a large, adjustable wrench
- 1¼" crescent wrench
- Needle nose pliers

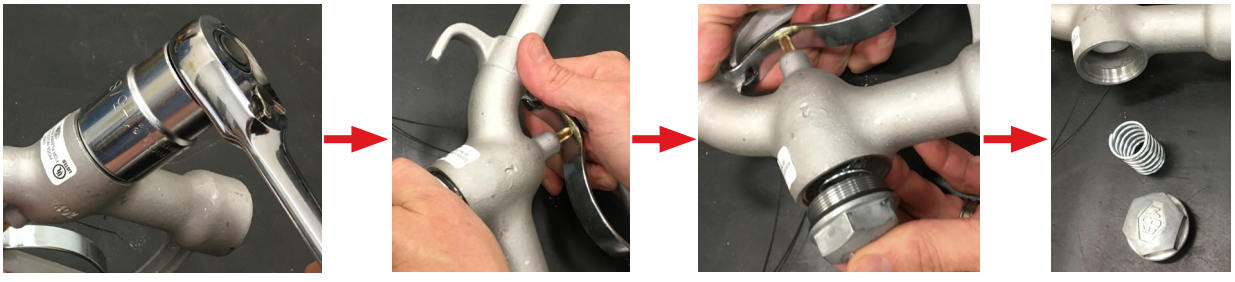
PROCEDURE

IMPORTANT: Make sure you release the hose pressure before disengaging the nozzle body from the hose.

1. Remove the nozzle to be serviced from the product hose it is connected to.

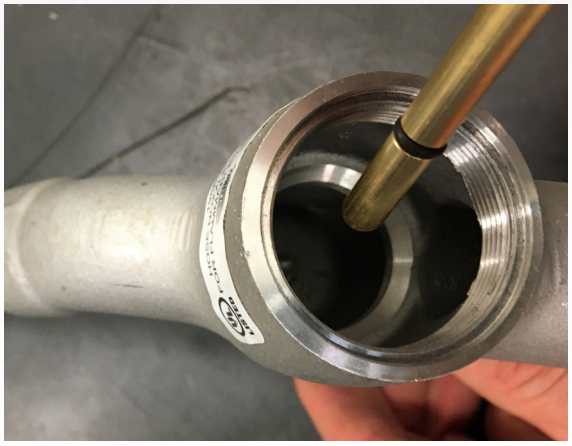


2. Use a 1⅜" socket wrench or a large, adjustable wrench to remove the hex cap on top of the nozzle. The main valve spring tension will push the cap off. Make sure you keep the spring and cap together in a safe, clean work area; you will need them later.

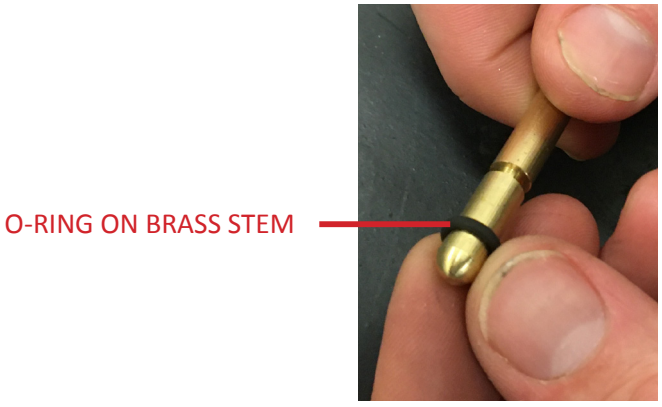


3. Remove the white, plastic, main valve by either tipping the nozzle upside down or using pliers to pull the valve out of the threaded hole. Discard this part--the service kit includes a new one.

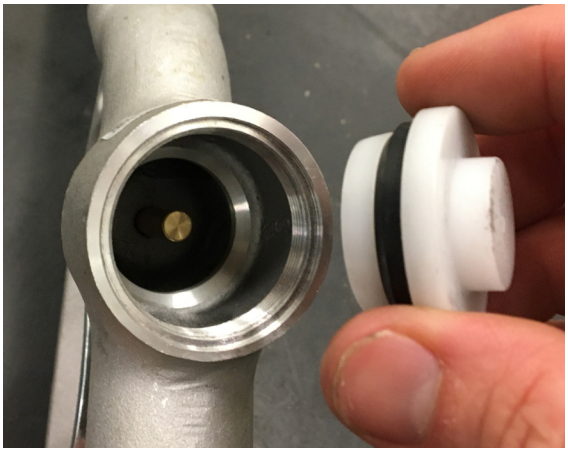
4. Use pliers to remove the brass stem through the same threaded hole as the main valve was just removed from with a pliers and set aside in a clean work area.



5. Clean nozzle body to receive refresh parts and set aside in a clean work area.
6. Remove the O-ring from the groove in the brass stem. Use a quality O-ring lubricant to lubricate the new O-ring from the service kit. Install the new O-ring in the groove of the brass stem. Be careful not to over stretch or twist the O-ring during installation. With the fresh O-ring on the stem reinsert it into the nozzle body and push it all the way through to the lever.



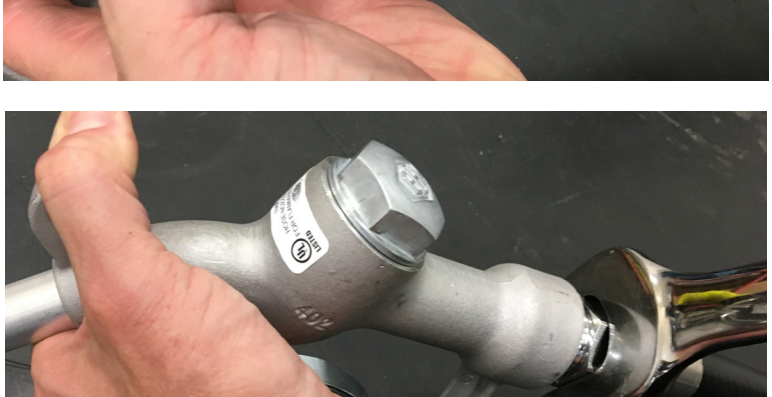
7. Install the new white, plastic, main valve from service kit through the threaded hole in the nozzle. Be careful not to damage the sealing surfaces of the main valve.



8. Remove the sealing ring from the cap, and install the new sealing ring from the service kit. Be careful not to over stretch or twist the sealing ring or damage it with the threads of the cap.


9. Reinstall the spring on top of the main valve in the nozzle body. Place the cap on top of the spring, and apply pressure with your hand to compress the spring and cap down to the nozzle body. Start the threads of the cap with continued downward hand pressure and clockwise rotation. Make sure the threads on the cap are square with the threads of the nozzle body. Tighten the cap by hand until the sealing ring is seated to the nozzle body, and then use a 1⅜" socket wrench or a large adjustable wrench to tighten the cap to a minimum of 10 lb-ft of torque.

10. Test the function of the nozzle before putting it back in to service. Begin by cycling the lever of the nozzle several times before subjecting it to fluid pressure. Make sure the lever and stem move smoothly and return the main valve to a closed position. (Please note that the lever may still have some freedom to move with respect to the nozzle body, even though the main valve and stem are fully returned.) Next, reconnect the nozzle to the intended product hose, and then pressurize. Last, validate that there are no fluid leaks from the stem, cap, and hose connection. If successful, return the nozzle to service.



franklinfueling.com
3760 Marsh Rd. • Madison, WI 53718, USA
Tel: +1 608 838 8786 • Fax: +1 608 838 6433
Tel: USA & Canada +1 800 225 9787 • Tel: UK +44 (0) 1473 243300
Tel: Mex 001 800 738 7610 • Tel: DE +49 6571 105 380 • Tel: CN +86 10 8565 4566