

# Product Information News

## MMR SECOND STAGE REGULATOR VALVE CORE

MSA has changed its recommended procedure for the installation of the bypass sleeve and bypass locknut assemblies.

The changes are 1) the addition of urethane (P/N 603571) to the threads of the bypass sleeve and bypass locknut and 2) an increase torque of the locknut to 35 – 45 in-lbs.

The change is the addition of two drops of Urethane Adhesive (P/N 603571) to the large threads of the bypass valve.

MSA recommends that all MMR Second Stage Regulators be modified at the time of the SCBA's annual inspection to reflect this new installation procedure.

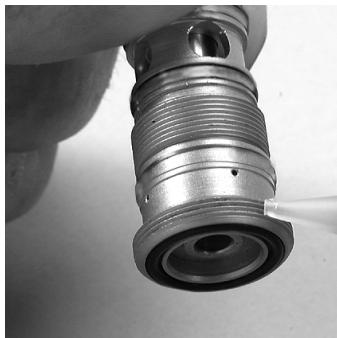


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PITTSBURGH, PENNSYLVANIA, U.S.A. 15230

## SECOND STAGE REGULATOR DISASSEMBLY AND REPAIR

5. Place two drops of Urethane Adhesive (P/N 603571) on the large threads of the bypass sleeve.



4. Line up the slot on the valve body with the lug inside the regulator housing. Press the valve core gently into the housing.



### ⚠ CAUTION

**Hold the valve body hex, not the base and lever assembly, ensuring the base and lever will not change calibration.**

**Note:** Make certain that the bypass sleeve O-ring remains in its groove on the end of the bypass sleeve during reassembly.

6. Place a 1" open-end wrench on the hex flats of the valve and lever assembly. Place the handwheel on the slide. Turn the handwheel clockwise and screw the bypass sleeve into the valve body hex.
7. Install the valve core.

### INSTALLING THE VALVE CORE

1. Place transparent tape over the exposed threads of the valve core to protect the O-ring.
2. Place a thin film of Christo-Lube™ lubricant on the **new** valve core O-ring.
3. Roll the O-ring in place in the groove closest to the valve body. Remove all tape.



### ⚠ CAUTION

**Do not push the top lever while installing the valve core. This could damage the pad seal and affect operation.**

**Note:** Resistance will develop when the O-ring is forced into its seat. The valve core is seated when it will not rotate.

5. Screw on the bypass locknut. Using the inch-pound torque wrench and the large spanner wrench, **tighten to 35-45 inch-pounds**.



6. **Place two drops of urethane adhesive (P/N 603571)** on the exposed threads of the valve core. Do not permit thread sealant to contact the regulator housing.



7. Install the bypass cap.
8. Install the **new** retaining ring **flat-side down** to secure the bypass cap.
9. Install the intermediate-pressure hose and bypass handwheel.
10. Install the diaphragm, and adjust static pressure.
11. Install the shut-off assembly and check the static pressure setting.