Medical Electronic Systems Ltd.

20 Alon Hatavor Street, P.O.Box 3017
Caesarea Industrial Park 38900, Israel
Phone: (972) 4 6373981 FAX: (972) 4 6373984

Technical Release Bulletin

SQA-V Capillary Blue Valves (pistons)

Issue date: **Monday, August 13th, 2007**

Bulletin number: **13_AUG_2007_SQAV Capillary_Piston**

Subject: **Defective Blue Valves in the SQA-V Testing Capillary**

Status:

There is reported that the Blue Valve (piston) of the SQA-V capillaries are difficult to close.

Troubleshooting:

- Advise the laboratory to push VERY hard on the blue valve prior to running a test in order to completely and effectively close the valve.

Explanation/Possible Causes:

- A new vendor supplied the dark blue valves (pistons).
- The rubber used in the dark blue pistons is softer and more porous than the previous rubber (light blue).
- The more porous and softer rubber absorbs the silcone sprayed on the pistons more completely causing more difficulty and more pressure required to close the piston.

Recommendations:

- Replace the dark blue softer rubber pistons with new pistons supplied by the manufactuer.

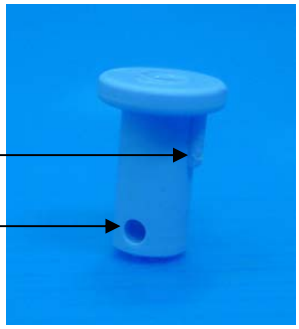
Medical Electronic Systems Ltd.
20 Alon Hatavor Street, Caesarea
Industrial Park 38900, Israel
Phone: (972) 4 6373981 FAX: (972) 46373984

Instructions for Replacement of the dark blue valves (pistons):

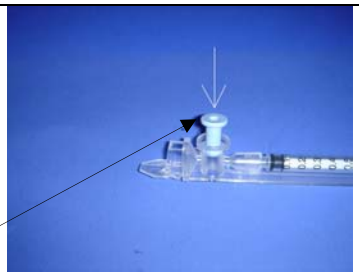
Remove all defective dark blue valves (pistons) from the existing lots of finished capillaries as advised by MES.

Note the structure of the blue valve (piston)

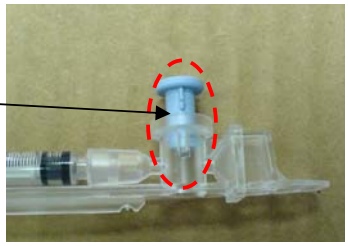
- Rib
- Hole



1. Spray special silicon (for plastic and rubber)- on the blue valves (pistons) **This has been done by MES and we have provided EXTRA silicon spray in case you notice the pistons are not going into the hole easily.**
2. Inset the blue valve (piston) into open hole on the top side of the Capillary Runner as follows:



- Align the rib of the blue valve (piston) with the slot in the section of the Capillary Runner where the valve is inserted.
- Line-up the holes of the blue valve (piston) with the holes in the Capillary Runner.
- **Push the blue valve (piston) in all the way.**



3. Using the jig, push the blue valve (piston) to its proper position in the capillary:
   - Place the capillary on the top of the jig with the piston hole on the top of the point of the jig
   - Press the point of the jig into the capillary hole and move the blue valve (piston) into the correct position.
4. The Capillary Separating Valve will be about 1 mm above the top of the Capillary Runner, with the holes in alignment with the Capillary Runner when finished.