

# RQF Lower Valve Replacement

- Remove upper hose and drain water bath area of syringe box.
- Remove syringe box from drive stand by removing 4 larger Philips head screws. Be sure to support syringe box while removing the screws.
- Using a 3/32" Allen (Hex) tool, remove the 8-way valve handle, this is easiest to do if the valve is in positions 2, 3, 6 or 7.
- Lay the syringe box on its face and remove the 10 Philips head screws securing the acrylic panel to the syringe box housing.
- Remove the acrylic "Tombstone" from the back of the 8-way valve by removing the 2 Philips head screws.
- Using the Minstac wrench remove the sample load loops from the back of the lower 3-way valves.
- Flip the syringe box back over and remove the two Philips head screws securing the 8-way valve to the front acrylic panel.
- Flip the box back over on its face and loosen the compression fittings on the bottom of the syringe box to allow the exit line and flush lines to be removed. Do not completely remove the compression fitting from the box, loosening a couple turns will be sufficient.
- Remove the 8-way valve from the box, with the valve half way out you must remove the valve to valve quench line (from upper valve) from the 8-way valve.
- Using the Minstac wrench remove the valve to valve buffer line from the top of the lower valve.
- Flip the syringe box over and remove the 3 way valve handle using the included 0.050" allen wrench and then the nut securing the valve with a 1/2" wrench.
- Flip the box back over onto its face and gently pull the valve from the acrylic panel. Also remove the flush line from the bottom of the box.
- Using the Minstac wrench remove the 5.0cm line from the side of the valve.
- With the valve out of the box remove the flush line from the valve using the Minstac wrench.
- Installation is reverse of removal. Do not over tighten the Minstac fittings or the nut that secures the 3-way valve to the acrylic plate.