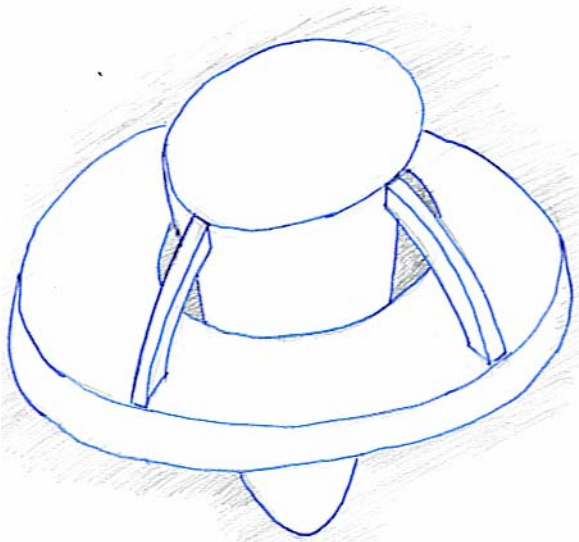
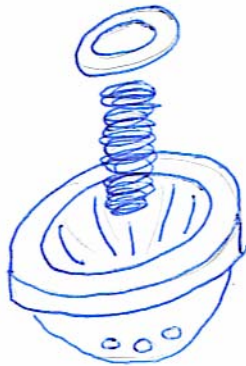


After evaluating every component of our coffee maker we determined that the current check valve design may be altered to a Design for No-Assembly. Our reasoning behind this revolves around the total number of small parts required for an ordinary check valve. In addition to the parts, the manufacturing time for the very small valve is substantial. If some type of single piece, compliant mechanism design could be implemented it will greatly increase the design efficiency. **\*\*Note\*\*** The compliant mechanism is not accounted for in the DFA because we are unsure how well a seal can be created on with our 'plastic on plastic' valve.



NEW COMPLIANT  
MECHANISM DESIGN



CURRENT  
DESIGN CHECKVALVE