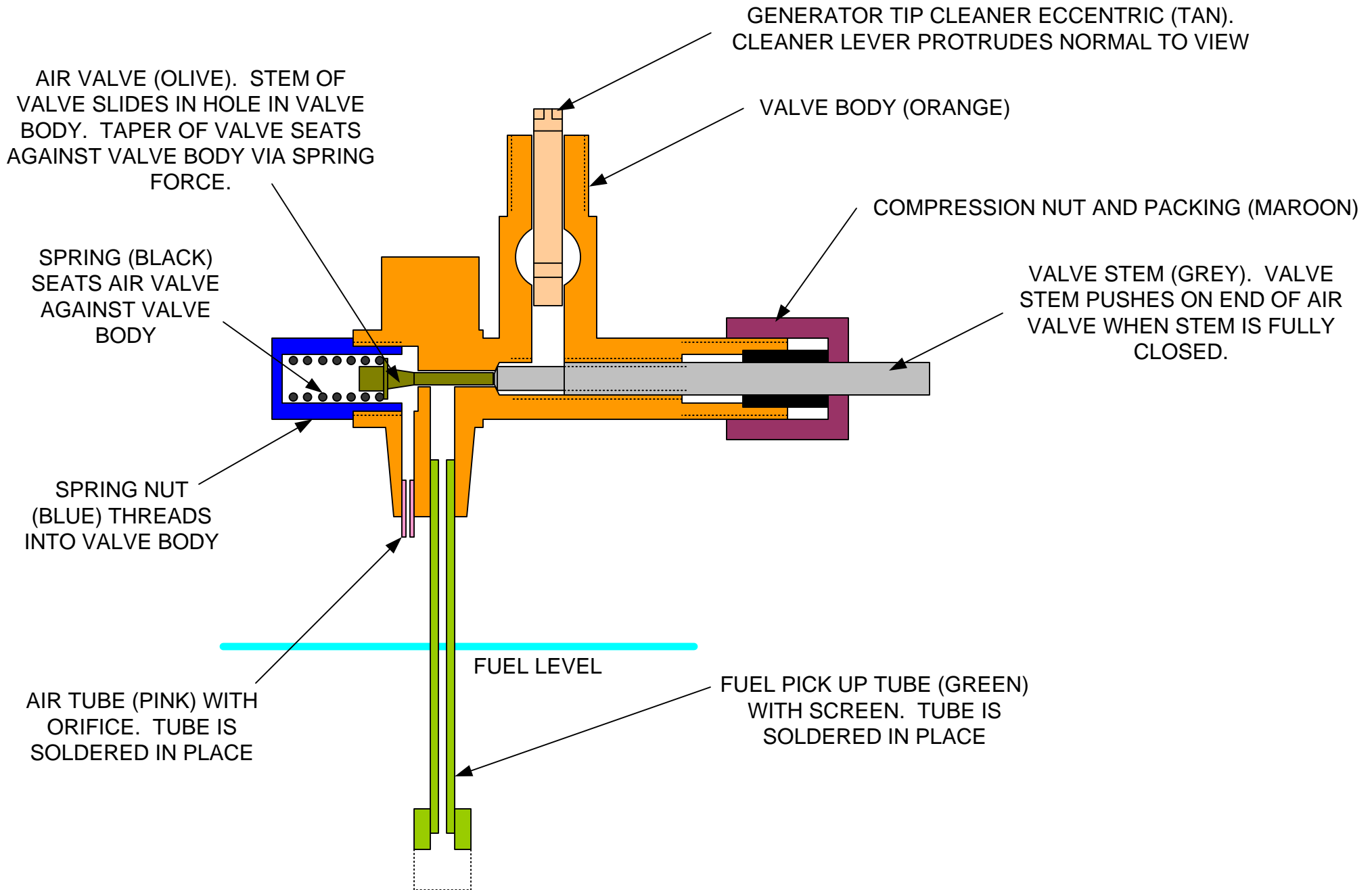
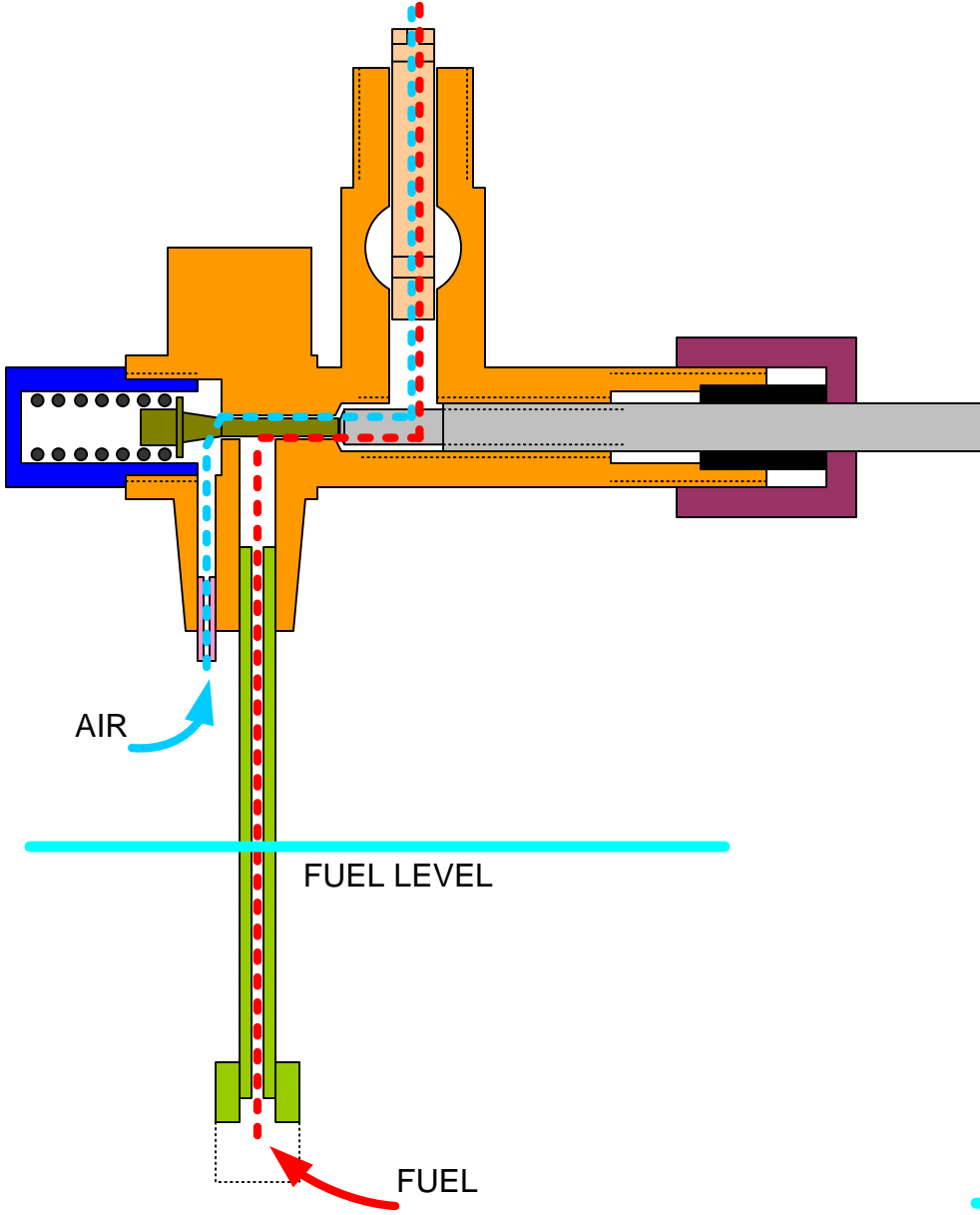
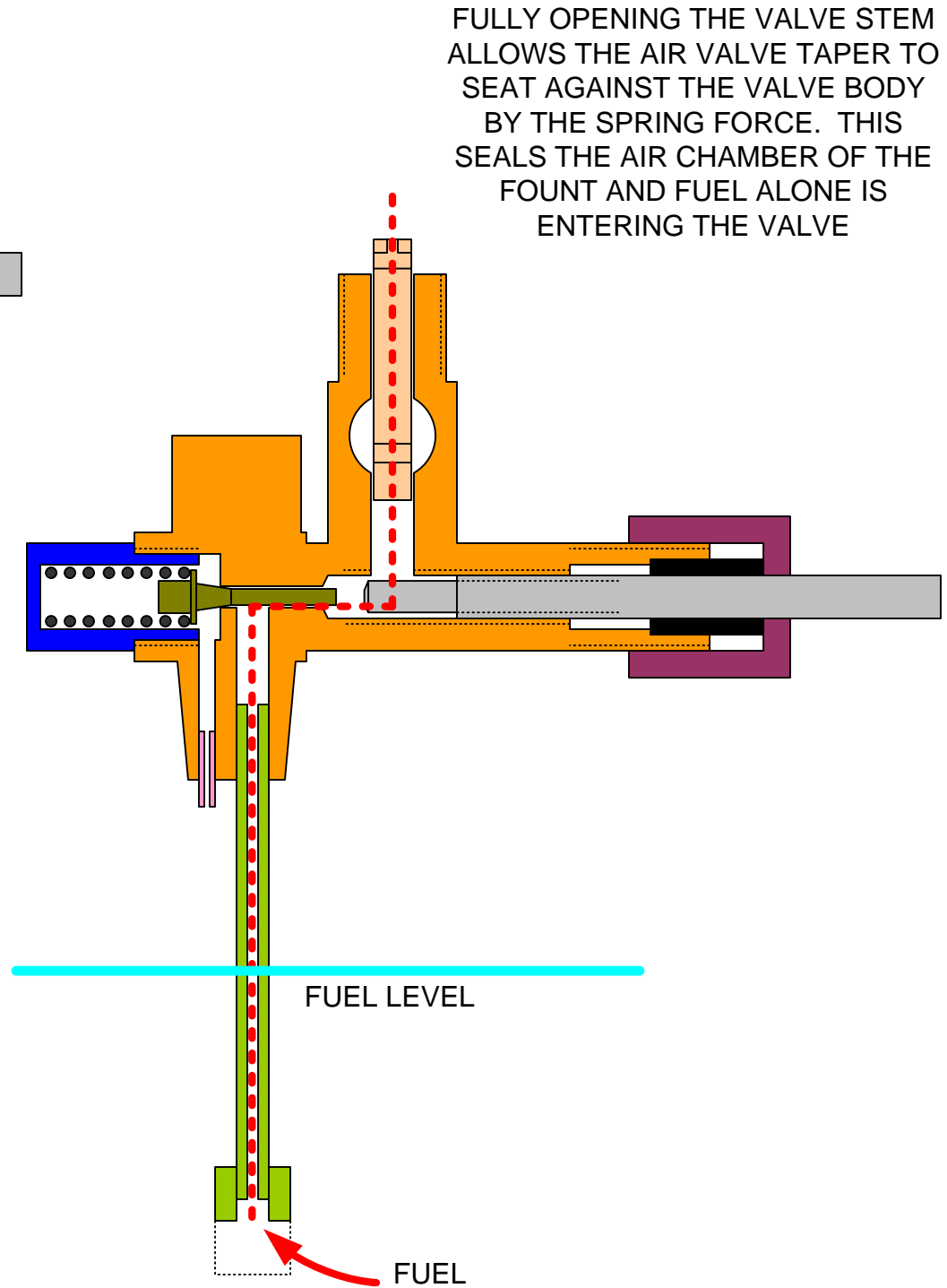


**The American Gas Machine
Model 3016 instant light design.
Other models similar**





UPON INITIAL OPENING OF VALVE STEM, FUEL IS SUPPLIED VIA THE FUEL PICK UP TUBE. AIR FROM THE FOUNT IS TAKEN INTO THE VALVE VIA THE AIR TUBE/ORIFICE AND THROUGH THE AIR VALVE TO MIX WITH THE FUEL. THE TIP OF THE AIR VALVE IS RESTING ON THE TIP OF THE VALVE STEM AND THE AIR VALVE TAPER IS NOT SEALED AGAINST THE VALVE BODY.



FULLY OPENING THE VALVE STEM ALLOWS THE AIR VALVE TAPER TO SEAT AGAINST THE VALVE BODY BY THE SPRING FORCE. THIS SEALS THE AIR CHAMBER OF THE FOUNT AND FUEL ALONE IS ENTERING THE VALVE