SUMMARY OF THE INVENTION

According to a first aspect of the present invention, there is provided an autoclavable bucketless cleaning system comprising: an autoclavable vessel with an inside for storing fluid under pressure, the vessel including a first connection point and a second connection point disposed at an outside of the vessel; an autoclavable outlet regulator assembly for dispensing fluid from the vessel, the outlet regulator assembly being removably connected to the vessel at the first connection point so as to be in fluid communication with the inside of the vessel, the outlet regulator assembly comprising an outlet connector with a first internal check-type valve configured to be in a closed position when not connected; an outlet autoclave stem configured to mate with the outlet connector to open the first check-type valve when connected to the outlet connector; an autoclavable inlet regulator assembly for pressurizing the vessel, the inlet regulator assembly being removably connected to the vessel at the second connection point to be in fluid communication with the inside of the vessel, the inlet regulator assembly comprising an inlet connector with a second internal check-type valve configured to be in a closed position when not connected; and an inlet autoclave stem configured to mate with the inlet connector to open the second check-type valve when connected to the inlet connector.

According to a second aspect of the present invention, there is provided a method of performing a cleaning operation with an autoclavable bucketless cleaning system, the method comprising: placing a cleaning solution in an inside of an autoclavable vessel, the vessel including a first connection point and a second connection point disposed at an outside of the vessel; removably connecting an autoclavable outlet regulator assembly on the vessel at the first connection point so the outlet regulator assembly is in fluid communication with the inside of the vessel, the outlet regulator assembly comprising an outlet connector with a first internal check-type valve configured to be in the closed position when not connected;

removably connecting an autoclavable inlet regulator assembly on the vessel at the second connection point so the inlet regulator assembly is in fluid communication with the inside of the vessel, the inlet regulator assembly comprising an inlet connector with a second internal check-type valve configured to be in the closed position when not connected; pressurizing the inside of the vessel via the inlet regulator assembly; dispensing cleaning solution from the inside of the vessel via the outlet regulator assembly to clean a designated area; removing any pressurized gas that remains inside the vessel after the designated area is cleaned; removing any cleaning solution that remains inside the vessel after the designated area is cleaned; removing a lid from the vessel and opening a drain valve at the bottom of the vessel so that steam may pass through the vessel; installing an outlet autoclave stem in the outlet regulator assembly so that steam may pass through the outlet regulator assembly; installing an inlet autoclave stem in the inlet regulator so that steam may pass through the inlet regulator assembly; and autoclaving each of the vessel, the outlet regulator assembly, and the inlet regulator assembly.

~~In view of the foregoing, it is a non-limiting object of the present invention to provide an autoclavable bucketless cleaning system that includes an autoclavable vessel with an inside for storing fluid under pressure and with a first connection point and a second connection point disposed at an outside of the vessel, an autoclavable outlet regulator assembly for dispensing fluid from the vessel and removably connected to the vessel at the first connection point so as to be in fluid communication with the inside of the vessel, and an autoclavable inlet regulator assembly for pressurizing the vessel and removably connected to the vessel at the second connection point to be in fluid communication with the inside of the vessel.~~

~~It is another non-limiting object of the present invention to provide a method of performing a cleaning operation with an autoclavable bucketless cleaning system that~~

~~includes placing a cleaning solution in an inside of an autoclavable vessel where the vessel includes a first connection point and a second connection point disposed at an outside of the vessel, removably connecting an autoclavable outlet regulator assembly on the vessel at the first connection point so the outlet regulator assembly is in fluid communication with the inside of the vessel, removably connecting an autoclavable inlet regulator assembly on the vessel at the second connection point so the inlet regulator assembly is in fluid communication with the inside of the vessel, pressurizing the inside of the vessel via the inlet regulator assembly, dispensing cleaning solution from the inside of the vessel via the outlet regulator assembly to clean a designated area, removing any pressurized gas that remains inside the vessel after the designated area is cleaned, removing any cleaning solution that remains inside the vessel after the designated area is cleaned, and autoclaving each of the vessel, the outlet regulator assembly, and the inlet regulator assembly.~~

These and other ~~objects~~embodiments of the invention, as well as many of the intended advantages thereof, will become more readily apparent when reference is made to the following description, taken in conjunction with the accompanying drawings.