Georg Fisher Type 543 Ball Valve – Engineering Specification

1.0 Summary
The product specified in this document is for Type 543 Ball Valve from Georg Fischer.

2.0 Specification and Certifications
The valve is to meet ASTM standards for PVC and CPVC materials. Polypropylene and PVDF versions shall be FDA CFR 21 177.1520 and USP 25 Class VI (physiological non-toxic) compliant. Polypropylene 543 valves will be in accordance with EN ISO 15494 specification. PVDF 543 valves will be in accordance with ISO 10931 specification.

2.1 Pressure/Temperature
The 543 ball valves are rated for 150PSI at 72°F.

2.2 Materials
The 543 valve body shall be constructed of PVC, CPVC, Polypropylene, or PVDF. Seats are made of PTFE. Seals shall be made of FPM or EPDM.

2.3 Mounting
All ball valves shall have stainless steel inserts for securing valves with fasteners.

2.4 Function
All valve stems shall have a double o-ring. The valve shall have incorporated into its design a safety stem with a pre-determined breaking point above the O-rings, preventing any media leaking in the event of damage. Adjustable seat carrier shall be reverse thread opposite that of the union nut. All PTFE seats shall have backing o-rings. The valve nut threads shall be buttress type. The handle shall include in its design an integrated tool for removal of the union bush. Horizontal versions shall include turn limiters to allow for 90° or 360° rotation.

3.0 Accessories
Position limit switch kits shall be available for manual valves. Electrically actuated versions and pneumatically actuated versions are available with optional position limit switches. Stem extensions shall be available and provided by Georg Fischer.

4.0 Approved Manufacturer
Approved manufacturer is Georg Fischer with no equal.