

Valve Preparation / Cleaning Options

Oxygen Cleaning, Silicone Free Cleaning, Passivation, & More!

Valve Preparation for Clean Applications

When critical applications require valves to be free from contamination, Max-Air and Sesto Valves can provide the needed services to ensure application conformance. There are several different types of cleaning available, all with certificates of conformance, for the following.

Oxygen Cleaning

Oxygen service or oil free cleaning: This cleaning standard is utilized primarily when the process media is pure or nearly pure oxygen. The presence of any hydrocarbons or other flammable materials can ignite easily in a highly enriched oxygen atmosphere so the valve and piping must be cleaned to a very high level. The governing standards for this are as follows:

- CGA G4.1
- ASTM G93
- MSS SP-138
- Other company specific procedures and standards

Silicone Free Cleaning

This standard is implemented primarily on products that will be utilized in paint systems, most commonly in the automotive industry. The presence of even small amounts of silicone products can cause paint defects called "fish eyes" and other failures where the paint will not bond properly to the substrate material. Cleaning of these products is done in accordance with one of these standards:

- CGA G4.1
- MSS SP-140

Passivation

Passivation is a process that is utilized in order to remove contaminants and to enhance the corrosion resistance of stainless steel, particularly on surfaces that have been modified by machining, grinding, welding, etc. It is typically executed in accordance with one of the following standards:

- ASTM A380 OR A967 – PERFORMANCE STANDARDS
- MIL-STD-753C

Prepared for Shipping

Following processing, all valves are securely wrapped and bagged to prevent environmental contamination that might compromise the cleaned product.

Certificates Available

We can supply certificates of conformance (CofC) to the applicable cleaning standard upon request.

Additional Options

Other cleaning protocols are also available on request including:

- Chlorine service per Pamphlet 6
- Ozone service per CGA 4.1
- Hydrogen Peroxide service per MSS-SP-150

