NELES

Jamesbury™ double-seal™ ball valves for oxygen service

Jamesbury™ offers a complete line of valves for oxygen services ranging from laboratory applications to basic oxygen steel furnace applications. Available are ball valves in screwed end, socket weld end, ANSI Class 150 and ANSI Class 300 flanged designs.

FEATURES

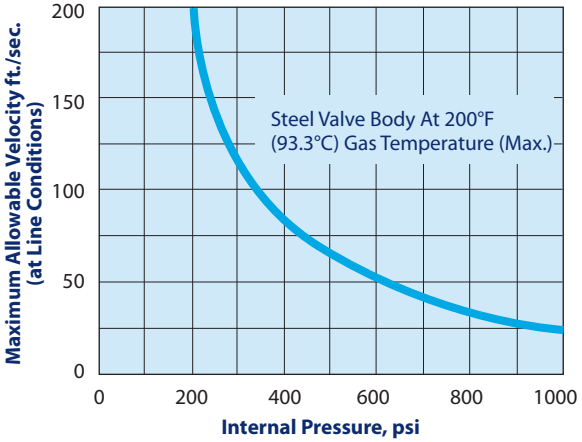
- Unique sealing design assures long-lasting positive shutoff.
- Rigid cleaning procedures virtually eliminate contaminants and meet requirements of Compressed Gas Association CGA G4.1.
- Variety of materials to suit specific service conditions.
- Fire-Tite™ models available to meet API 607 and BS 6755 Part 2.

MATERIAL AVAILABILITY

Body materials for valves furnished for oxygen service include bronze, carbon steel, 316 stainless steel and Monel®.

Seats should be PTFE (T), filled PTFE (M) or X-treme™ (X).

Selection of body and trim materials is a function of line velocity, solid contaminants and piping configuration, as well as mill practice.



VELOCITY/PRESSURE RATING

Maximum velocity versus internal pressure for steel valves is shown below. Velocity should be calculated at minimum expected operating pressure for specified flow rate.

CLEANING,TESTING,AND PACKING

A rigid procedure is utilized by Jamesbury to insure cleanliness of all valves specified for use on oxygen service because of the inherent danger of oxygen reacting with any grease, oil, or combustible material left in a piping system. All parts are first carefully examined to make sure they are free of burrs, chips, or other foreign matter.They are then thoroughly washed, rinsed, and finally dried with oil-free filtered air.

The valves are assembled using only lubricants compatible with oxygen. They are then tested on designated equipment using special tools that have been cleaned in the same manner as valve components. Valves are hydrostatically tested and dried with "oil-free" filtered air. After being tagged to identify them as having been processed for oxygen service, valves are sealed in clear polyethylene bags.

Valves can also be processed in accordance with individual customer specifications, if required. Consult the factory for details.

TORQUE REQUIREMENTS

The dry, non-lubricating nature of oxygen gas increases the torques required to operate ball valves. When selecting an actuator, add 50% to the normal torque requirements indicated in the torque tables of the appropriate valve bulletin.

HOW TO ORDER

Specify the oxygen version of A-Style, Eliminator™, Series 4000, 7000 or 9000 valves by inserting the letter "O" before the figure numbers designating the body type. For example, 7150O.

OTHER VALVES FOR OXYGEN SERVICE

WAFER-SPHERE® high-performance butterfly valves are also available prepared for oxygen service. See Bulletin W150-3 for Wafer-Sphere™ valves to handle gaseous oxygen, and Bulletin W130-1 for cryogenic Wafer-Sphere valves to handle liquid oxygen.

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B150-3EN - 11/2020

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