

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.
- Variety of materials to suit specific service conditions.
- Fire-Tite® models available to meet API 607 and BS 6755 Part 2.

MATERIAL AVAILABILITY

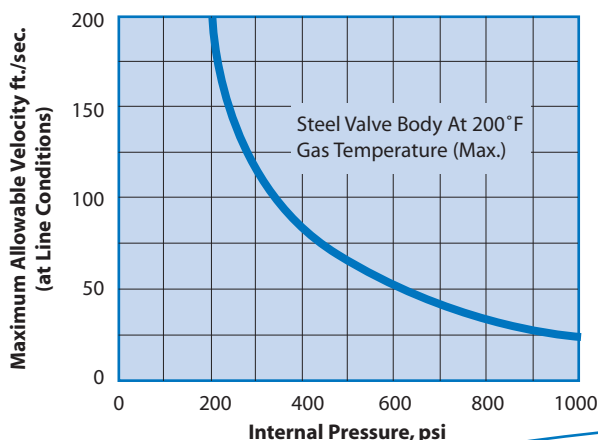
Body materials for valves furnished for oxygen service include bronze, carbon steel, 316 stainless steel and Monel®.

Seats should be PTFE (T), filled PTFE (M) or XTREME™ (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 Eliminator® and Series 4000, 5000, 6000, 7000 or 9000 valves by inserting the letter "O" before the figure numbers designating the body type. For example, Style 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.

Installation Instructions, Maintenance and Operation

IMO's (Installation, Maintenance, and Operating instructions) or AMI's (Assembly, Mounting, and Installation instructions) are shipped with the products. Additional copies of these instructions are available. Call your local Metso Automation Distributor, or visit our web site.

Metso Automation, Field Systems Division

Europe, Levytie 6, P.O.Box 310, 00811 Helsinki, Finland. Tel. int. +358 20 483 150. Fax int. +358 20 483 151

Europe (UK), 8 Pipers Wood Industrial Park, Waterlooville, Hampshire PO7 7XU UK. Tel. int. +44 (0)23 9223 8500. Fax int. +44 (0)23 9223 8510

North America, 44 Bowditch Drive, P.O.Box 8044, Shrewsbury, Massachusetts, 01545-8044 USA. Tel. int. +1 508 852 0200. Fax int. +1 508 852 8172

North America, 3100 Medlock Bridge Road, Suite 250, Norcross, GA 30071, USA. Tel. int. +1 770 446 7818. Fax int. +1 770 242 8386

Latin America, Av. Central, 181- Cháracas Reunidas, 12238-430, São Jose dos Campos. Tel. int. +55 12 335 3500. Fax int. +55 12 335 3535

Asia Pacific, 501 Orchard Road, #05-09 Wheelock Place, 238880 Singapore. Tel. int. +65 735 5200. Fax int. +65 735 2955

www.jamesbury.com

