

# Jamesbury™ Double-Seal™ ball valves for chlorine service

Unique design features make Jamesbury Double-Seal ball valves ideal for handling liquid or gaseous chlorine. These valves are filling application requirements of producers and consumers of chlorine.

## Features

Most important of all is the unique sealing design of the valves. The flexible-lip valve seats not only provide tight shutoff, but in the event of pressure build-up in the body, they flex and vent chlorine safely toward the high pressure (upstream) side of the valve.

Additional features prevent leakage of chlorine to the atmosphere. Live-loaded PTFE stem seals eliminate leakage past the stem, while other potential leak paths are eliminated by the highly effective PTFE body seals between the body and body cap or body insert.

## Chlorine institute pamphlet 6

“Piping System for Dry Chlorine”

All Jamesbury Chlorine valves meet material, assembly, testing, packaging and application requirements of service classes I-VI of Chlorine Institute Pamphlet 6. Special “Chlorine” tagging identifies valves prepared to this specification.

Moisture content (parts per million of water)	Valve material(s)
0 – 50 ppm	Carbon steel body with Monel® or Hastelloy C® ball and stem
50 ppm & up	Monel body with Monel or Hastelloy C ball and stem

A full range of key materials is available to permit selection of the Jamesbury valve best suited for the moisture content of the chlorine being handled. The recommended valve materials are:

A216-WCB Carbon steel is not recommended for service below -20°F (-29°C). For applications involving lower temperatures, A352 LC3 carbon steel or Monel is used. 316 stainless steel may be subject to stress corrosion cracking and is not recommended. ASTM A352 LC3 Covers all Pamphlet 6 low temperature services classes.

Valves applied in loading and unloading operations should have a Hastelloy C ball and stem. Atmospheric moisture may enter the valve in this operation, resulting in increased moisture content of the chlorine.

PTFE, filled PTFE and Xtreme™ are all suitable as seat materials in chlorine valves, although Xtreme and filled PTFE are recommended to resist the abrasive effects of ferric chloride.

Valves cleaned and prepared for chlorine service are available as standard in the following styles: Eliminator® threaded-end valves and Series 7000, and 9000 flanged-end valves. Double-Seal ball valves for chlorine service have the letter “C” following the body style designation, for example, 9FBC or 7150C.

Chlorine valves in the above styles can be furnished in Fire-Tite® design when specifications require. Refer to the following bulletins for dimensions, bills of material, and other specifications of Jamesbury ball valves for chlorine service:

Valve Type	Bulletin
Eliminator threaded-end valves	B101-2
Series 7000, & 9000 flanged valves	B107-1
	B107-2

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