

Jamesbury™ Wafer-Sphere™ butterfly valves for chlorine service

Jamesbury™ Wafer-Sphere high-performance butterfly valves specially prepared for chlorine service provide reliable performance in handling a wide range of chlorine applications. Excellent for both on-off and proportional control, they are available in ASME Class 150, sizes 2-1/2" through 60" (DN 65 – 1500), ASME Class 300, sizes 3" through 36" (DN 80 – 900), and ASME Class 600, sizes 3" through 24" (DN 80 – 600).

Features

- Patented sealing design utilizing a unique flexible lip PTFE seat assures positive shutoff.
- The double-offset disc design allows the disc to swing away from the seat during cycling, reducing operating torque, eliminating wiping wear and minimizing chances of seat damage from deposits of material – all leading to extremely long-cycle life.
- The design of these valves precludes cavities or pockets where pressure build-ups might occur.
- Potential leak paths to the atmosphere are minimized with the one-piece body.
- Rigid cleaning procedures virtually eliminate contaminants.

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.

Material guide

As a general conservative guide, the following materials are recommended for chlorine valves according to moisture content of the chlorine:

MOISTURE CONTENT (parts per million of water)	VALVE MATERIAL(S)
0-50 ppm	Carbon steel with Monel* disc and shaft†
50 ppm & up	Monel*†

* Available on application

† Hastelloy* C shaft optional

Monel is a trademark of Inco.

Hastelloy is a trademark of Haynes International, Inc.



Carbon steel is not recommended for service below -20°F (-29°C). For applications involving lower temperatures, 316 stainless steel or Monel may be used. 316 stainless steel offers no improvement, however, in corrosion resistance to the chlorine being handled, and may be subject to stress corrosion cracking.

To allow for the presence of atmospheric moisture in loading and unloading operations, valves used in this service should have Monel disc and Monel or Hastelloy C shaft.

The standard Xtreme™ seat material is completely corrosion resistant to wet and dry chlorine.

How to order

Wafer-Sphere valves cleaned and prepared for chlorine service have the letter “C” following the valve type designation, i.e. Figure 815LC-11-2271XZ. For complete ordering instructions, please refer to Bulletins W101-6 and W104-1.

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