

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 ANSI Class 150, sizes 2-1/2" through 60" (DN 65 – 1500), ANSI Class 300, sizes 3" through 36" (DN 80 – 900), and ANSI 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.

CLEANING, TESTING, AND PACKAGING

To prevent possible reaction of chlorine with foreign material, a special cleaning procedure is followed in the preparation of chlorine valves. Valves are individually packaged (with desiccant) after assembly and testing to minimize moisture present in the valve. Special "CHLORINE" tagging identifies valves prepared in this manner.

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.

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

