Declaration of Conformance
Chlorine Institute - Pamphlet 6

1 Purpose

1.1 The purpose of this document is to define the procedures which must be followed to ensure compliance with Pamphlet 6 from the Chlorine Institute.

2 Scope

2.1 This document covers all sizes of AVCO ball valves in the valve series as listed below, provided they meet all the criteria detailed in this document.

2.1.1 1100 Series - Threaded, butt weld, socket weld and flanged end styles.

2.1.2 1900 Series - Threaded, butt weld, socket weld and flanged end styles.

2.2 The valves listed above are deemed to meet Chlorine service classes I & IV subject compliance with this document.

3 Responsibility

3.1 It is the responsibility of the Sales team to ensure the Warehouse Manager is aware the valve is to be prepared for Chlorine service. This can be achieved via the in-house procedures followed for the valve ordering process.

3.2 It is the responsibility of the Warehouse Manager or their designated assembler to ensure the procedures specified herein are followed without exception.

3.3 The QA Manager shall ensure the Warehouse Manager is made aware of this procedure and that they have relevant training to carry out the duties specified herein.

4 Valve Design

4.1 The standard design of the valves listed in section 2 meet all the criteria of the Chlorine Institute requirements listed in Pamphlet 6, except for the following, which are to be included without exception.

4.2 The ball must have a relief hole (herein known as vented ball), which, when installed and in the closed position, is on the upstream side of the ball. This is to relieve any pressure that may build up in the ball cavity whilst in the closed position.

4.3 A flow direction arrow shall be clearly marked on the valve body.

4.4 A stainless steel tag stating ‘WARNING! vented ball relief hole must be installed on upstream side’ shall be securely fixed to the valve.

5 Valve Materials

5.1 The valve materials shall be as listed in table 1.

6 Cleaning

6.1 The valve shall be cleaned, degreased and packaged in accordance with para 4.5.2 of the Chlorine Institute Pamphlet 6 requirements. AVCO's standard degreasing procedure shall be followed for this process.

7 Inspection

7.1 Each valve type and size has an assembly drawing and the Operator shall ensure that all components specified on the relevant assembly drawing have been correctly assembled. The operator shall ensure that no components have been inadvertently omitted or incorrect components used. It is allowable for the handle to be omitted according to whether the valve has been assembled for manual or automated use and shall not be cause for non-compliance.

Item	Parts	Material
1	Body	ASTM A216-WCB
2	End Cap	ASTM A216-WCB
3	Retainer*	Hastelloy C276/Monel 400
4	Ball	Hastelloy C276/Monel 400
5	Stem	Hastelloy C276/Monel 400
6	Ball Seat	PTFE
7	Body Seal	25% Carbon PTFE/PTFE/Graphoil
8	Thrust Washer	25% Carbon PTFE/Graphoil
9	Packing	25% Carbon PTFE/Graphoil
10	Gland Ring	304 Stainless Steel
11	Disc Spring	Steel
12	Lock Tab	304 Stainless Steel
13	Stem Nut	Zinc Plated Carbon Steel
14	Body Bolt	ASTM A193 Grade B7
15	Body Nut	ASTM A194 Grade 2H
16	Stop Pin	304 Stainless Steel
17	Handle	304 Stainless Steel
18	Handle Sleeve	Vinyl
19	Wrench Block	304 Stainless Steel
20	Handle Bolt	Zinc Plated Carbon Steel
21	Lock Pad	304 Stainless Steel

* This item is integral with the end cap (item 2) on sizes 1/4" thru 3/4" and will match the end cap material

7.2 The body bolts and stem nut shall be checked for tightness and adjusted as necessary per the relevant IOM manual.

7.3 A visual inspection of the valve bore and stem packing area shall be carried out to ensure no metal fragments, grit, sand or the like is present and cleaned accordingly.

7.4 The valve shall be cycled several times to ensure smooth operation. The operator shall check for any galling or unexpected tightness during this operation. If the valve is fitted with a lockable handle, the locking mechanism shall be checked for correct operation.

7.5 Any valve which fails and cannot be quickly remedied shall be marked with a red tag, the reason for non-compliance written on the tag and placed in the non-compliance holding area for corrective action.

8 Valve Testing

8.1 The valve shall be tested in accordance with para 4.5.1 of the Chlorine Institute Pamphlet 6.

8.2 The valve shall be re-checked for grease marks and cleanliness after testing and inspection and re-cleaned as necessary.

8.3 Identification

8.4 The valve shall be tagged stating that it has been prepared for Chlorine service in accordance with the Chlorine Institute Pamhlet 6 requirements after unergoing all the procedures listed herein.

9 Conformance

9.1 A valve shall be deemed to have conformed and released for use if all of the above procedures are fully met.

9.2 Specific testing may be specified by the purchaser provided the above is still undertaken.

9.3 Certificates of conformance may be created if so needed under the terms of the purchase agreement, but are not wholly necessary.

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