

**Project: FIRE TEST FOR SOFT-SEATED
BALL VALVE**

Certificate No.: 104/04

Client: J.C. FÁBRICA DE VÁLVULAS, S.A.

Office: Sant Joan Despí (BCN)

Client's Order No.: ---

Date: 04.03.04

Inspection dates

First: 04.03.04

Order Status: Complete

Final: 04.03.04

This certificate is issued to

Messrs. **J.C. FABRICA DE VÁLVULAS, S.A.**, upon their request that the undersigned Suveyor to this Society did attend their premises at their works in Sant Boi de Llobregat - Barcelona (Spain) for the purpose of witnessing the FIRE TEST in accordance with the requirements specified in BS-6755: Part 2, 1987, API 6FA: 1994, and ISO-10497/92 on the following type of valve:

A manually operate soft seated ball valve of 16" bore 16", symetric Valve as per fig. 6260 AIV class 600#.

Body and Connector material A-105 (Carbon Steel)

Seats: VITON

Ball material: A-350 LF2

Stem: A-479 Tp 316

Marks:

- BODY : Col. 31450
- CONNECTOR : Col. 21873

The test conducted on the valve previously subject to hydraulic pressure was as follows:

The valve in the closed position, filled with water under test pressure, was put in a box and exposed to flames with an environmental temperature in the region 750° C for a period of 30 minutes and established the leakage trough the seat and external to atmosphere during this period. The temperature was checked and recorded every two minutes, while leakages were determined using containers collecting the water leaked during burn period. Afterwards cool-down to 100° C. The valve seat and external hydrostatically tested to the appropriate test pressure and leakages recorded accordingly. Subsequently manually opened up under test pressure differential and finally the valve was fully hydrottested and leakages recorded.

All the following values were determined and recorded together with temperatures, times and pressures as shown on manufacturers Fire Safe Test Report nº B56755-6260/16".



Certificate No.: 104/04
Office: Sant Joan Despí (BCN)
Date: 04.03.04
Sheet 2 of 2

1. Through-valve leakage during burn period-Satisfactory.
2. External leakage during burn and cool-down period-Satisfactory.
3. Through-valve leakage during operational test-Satisfactory.
4. External leakage during operational test-Satisfactory.
5. Operability to full open position and external leakage-Satisfactory.

The valve was subject to a visual examination with satisfactory results and subsequently dismantled in order to verify that valves components comply with the drawing and parts list supplied by the manufacturer, while seat rings were found completely destroyed.

The manufacturers Fire Safe Test Report nº B56755-6260 / 16" and drawing nº 4657 Rev. 3 herewith attached were satisfactory checked and signed.

The above is considered in accordance with the mentioned specifications requirements, therefore the subject valve has satisfactory passed the prescribed fire test and can be also qualified as follows:

<u>NPS</u>	<u>CLASS RATING</u>	<u>PN RATING</u>
Full Bore: 16" and larger	600#, 800# and 900#	---
Reduced Bore: 14" and larger	600#, 800# and 900#	---

Surveyor Javier Aranda

SGS Tecnos, S.A.
C/. Las Planas nº 1, Nave B
Poligono Industrial Font Santa
08970 Sant Joan Despí (Barcelona)
Tel.: (34) 93 477 01 71 - 93 477 01 80
Fax.: (34) 93 473 15 00

DOCUMENTS ATTACHED:
Sheets reviewed and stamped
Accordingly.

