

Sheet 1 of 3

Project: FIRE TEST FOR SOFT-SEATED
BALL VALVE

Certificate No.: 206/08 - 9587

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

Office: Sant Joan Despí (BCN)

Client's Order No.:: --

Date: 18.03.08

Order Status: Complete

Inspection dates

First: 18.03.08

Final: 18.03.08

This certificate is issued to

Messrs. J.C. FABRICA DE VÁLVULAS, S.A., upon their request that the undersigned Suveryor 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 ISO 10497:2004, on the following type of valve:

A manually operate soft seated ball valve of 2" bore 2", symetric Valve as per fig. 560 IIRTFM class 600#.

Body and Connector material CF8M (ASTM A-351)

Seats: SEE DRAWING 6095
Ball material: SEE DRAWING 6095
Stem: SEE DRAWING 6095

Marks:

- BODY

: Col. J8023

- CONNECTOR: Col. J8023

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 hydrotested 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 C206/08

SGS Tecnos, S.A. C/. Las Planas nº 1, Nave B

Poligono Industrial Fontsanta 08970 Sant Joan Despí (Barcelona) Tel.: (34) 93 477 01 71 - 93 477 01 69 Fax.: (34) 93 373 15 00

Las Planas, 1 - Nave B Pol. Ind. Fontsanta 08970 Sant Joan Despi (Barcelona) **t** (34) 934 77 01 71 **f** (34) 933 73 15 00 www.sgs.es



Certificate No.: 206/06 - 9587 Office: Sant Joan Despí (BCN)

Date: 18.03.08 Sheet 2 of 3

- 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. Operatibility 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 C206/08 and drawing 6095 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.

DN CLASS RATING PN RATING

50 and below 65, 80, 100

600#, 800#, 900#

100, 150

SGS Tecnos, S.A. C/. Las Planas nº 1, Nave B

Poligono Industrial Fontsanta

Poligono Industrial Fontsanta

OBS 70 Sant Joan Despi (Barcelona)

Tel.: (94) 93 477 91 71 - 99 477 91 69

Fax.: (34) 93 373 15 60

Surveyor

Javier Aranda García

DOCUMENTS ATTACHED:

Sheets reviewed and stamped Accordingly.



Certificate No.: 206/08 - 9587 Office: Sant Joan Despí (BCN)

Date: 18.03.08 Sheet 3 of 3

6095 φD 292 (4)(8)(2) (4)(E)(E)(B)(B) 165 9 50 **%**P 120 5370H 7 4x90°=360° ≻ (5) 511 3  $\Theta$ œ΄ 5.78 Ø (<del>a</del>) ΦD Antiestatic deatil Tecnos, S.A.

Poligono Industrial Fontsanta
088 70 Sant Joan Despí (Barcelona)
Tet: (34) 93 477 01 71 - 93 477 01 69
FRAN: (34) 93 373 15 00 <u>Spring</u> 5 (Drawing 5115/20) 3008 Ball Ø3 Substitutes by: STUD PIN
BODY CONNECTO
STEM THRUST SE
GLAND PACKING
GLAND PACKING
GLAND PACKING
GLAND MUT
MERNCH
SEAT RING
STEM
BALL
BODY CONNECTO 2 Appr. Eng. Scale: Checked DENOMINATION βA BALL VALVES STEM DIMENSIONS œ 11-03-08 19.2 102 3 FIG. 560 IJ.RT. DN-2" CLASS 600 RF PR J. Urbana J. Rubio PLASTIC

STANLESS ST.

FRAM

ANS 304

ANS 306

A 10.316 10r. CF8M 10r. CF8M 10r. CF8M MATERIAL M10 M25x1,5 (\*) RECOMMENDED SPARE PARTS (7) 8 29 (Kg.) ### Fábrica de válvulas, s 08330 Sant Boi de Lobregat (Sp sl. + (34) 938 54 88 88 // Fax + (34) 938 8 e.mail: technical@jo-valves. QUANTITY Drawing n°.: 6095 DRAWING Nº. 핖



Sheet 1 of 3

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

Order Status: Complete

Certificate No.: 173/08 - 9587

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

Office: Sant Joan Despí (BCN)

Client's Order No.::

Date: 12.03.08

Inspection dates

First: 12.03.08

Final: 12.03.08

This certificate is issued to

Messrs. J.C. FABRICA DE VÁLVULAS, S.A., upon their request that the undersigned Suveryor 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 ISO 10497:2004, on the following type of valve:

A manually operate soft seated ball valve of 2" bore 2", symetric Valve as per fig. 560 LIRTFM class 600#.

Body and Connector material ASTM A-352 Gr. LCC

Seats: SEE DRAWING 6096 Ball material: SEE DRAWING 6096

Stem: SEE DRAWING 6096

Marks:

- BODY : Col. J5268 - CONNECTOR: Col. J5297

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 hydrotested 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 C173/08

SGS Tecnos, S.A.

C/. Las Planas nº 1, Nave B Poligono Industrial Fontsanta 08970 Sant Joan Despí (Barcelona) Tel.: (34) 93 477 01 71 - 93 477 01 69 Fax.: (34) 93 373 15 00

Las Planas, 1 - Nave B Pol. Ind. Fontsanta 08970 Sant Joan Despi (Barcelona) **t** (34) 934 77 01 71 **f** (34) 933 73 15 00 www.sgs.es



Certificate No.: 173/08 - 9587 Office: Sant Joan Despí (BCN)

Date: 12.03.08 Sheet 2 of 3

- 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. Operatibility 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 C173/08 and drawing 6096 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.

DN CLASS RATING PN RATING

50 and below 600#, 800#, 900# 100; 150;
65, 80, 100

Surveyor

SGS Tecnos, S.A.
Javier Aranda García

DOCUMENTS ATTACHED:

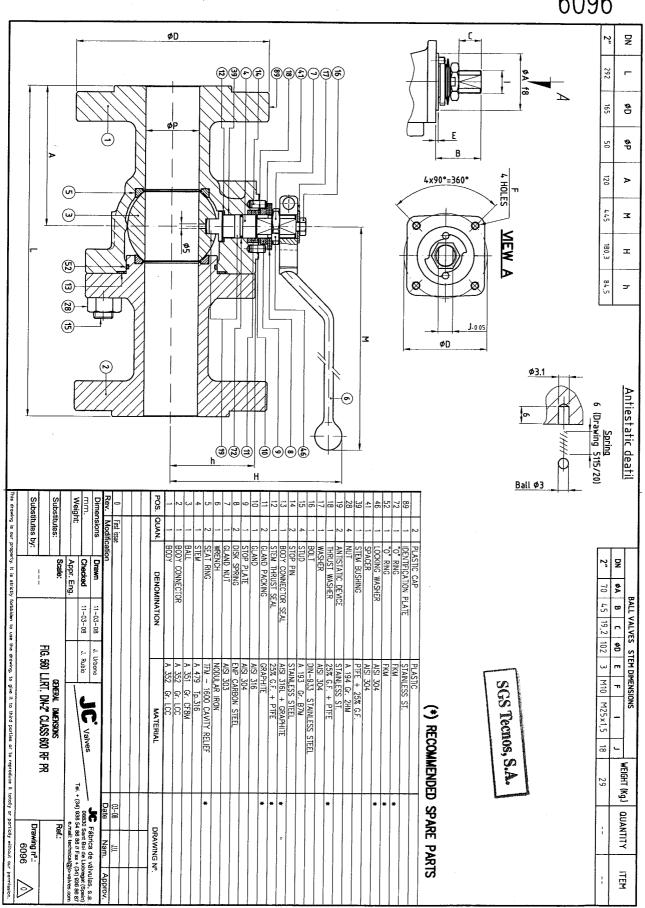
Sheets reviewed and stamped Accordingly.



Certificate No.: 173/08 - 9587 Office: Sant Joan Despí (BCN)

Date: 24.04.06 Sheet 3 of 3

6096





FIRE TEST FOR SOFT-SEATED

Certificate No.: BCL 500929/1

FLANGED BALL VALVE

J.C. FABRICA DE VALVULAS, S.A.

Office:

BARCELONA

Client's Order No.:

19.03.96

Order Status:

Complete

Inspection dates

18.01.96

18.01.96

This certificate is issued to J.C. FABRICA DE VALVULAS, S.A. upon their request that the undersigned Surveyor to this Society did attend their premises at their works in RUBI - 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 operated soft seated flanged ball valve of 2" full bore, bi-directional as per fig. 560-A.I.N., class 600#.

Body material A-216-WCB (cast steel).

Seats: NYLON- 612.

Ball material: A-351-CF8

Manufacturers identifying numbers: BODY: C560A50-M2.

Bonnet: L560A50-M1 and Ball: B50 I560.

Mass 28 Kg.

Marks:

BODY: ADG & AEA BONNET: ADH

The test conducted on the valves 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 ºC to 950 ºC for a period of 30 minutes and established the leakage through 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 ºC. The valve seat and external hydrostatically tested to the appropriate test pressure and leakages recorded accordingly. Subsecuently manually opened up under test pressure differential and finally the valve was fully hydrotested and leakages recorded.

All the following values were determined and recorded together with temperatures, times and pressures as show on manufacturers Fire Safe Test Report nº 560-2-A and 560-2-B.





Certificate No: BCL 500929/1

Office

BARCELONA

Date

: 19.03.96

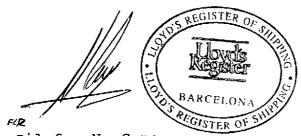
- 1. Through-valve leakage during burn period-Satisfactory.
- External leakage during burn and cool-down period-Satisfactory.
- 3. Through-valve leakage during operational test-Satisfactory.
- 4. External leakage during operational test-Satisfactory.
- 5. Operatibility to full open position and external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

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

The manufacturers Fire Safe Test Report nº 560-2-A, 560-2-B and drawing nº 1304/560 AIN50 Rev. 0 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:

NPS	CLASS RATING	PN RATING
2". 2 1/2". 3" & 4"	600,800 & 900	



J. Gil for N. Cano Surveyors to Lloyd's Register

DOCUMENTS ATTACHED:
17 Sheets reviewed and stamped accordingly



