

Project: FIRE TEST FOR SOFT-SEATED BALL VALVE

Certificate No.: 1050/08 - 9587

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

Office: Sant Joan Despí (BCN)

Client's Order No.:: ---

Date: 11.11.08

Order Status: Complete

Inspection dates

First: 11.11.08

Final: 11.11.08

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", I.I.RPTFE symetric Valve as per fig. 41501R class 800#.

Body and Connector material A316L Seats: SEE DRAWING 6462

Ball material: SEE DRAWING 6462

Stem: SEE DRAWING 6462

Marks:

- BODY : Col. 91983 - CONNECTOR : Col. 704022

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 C1050/08

SGS Tecnos, S.A.

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.: 1050/08 - 9587 Office: Sant Joan Despí (BCN)

Date: 11.11.08 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.
- External leakage during operational test SATISFACTORY. 4.
- Operatibility to full open position and external leakage SATISFACTORY. 5.

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 C1050/08 and drawing 6462 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, 100 800, 900, 1500 100, 150, 260

> SGS Tecnos, S.A. C/. Las Planas nº 1, Nave B Poligono Industrial Fontsanta

08970 Sant Joan Despi (Barcelona) Tel.: (34) 93 477 01 71 - 93 477 01 69

Fax.: (34) 93 373 15 00

Surveyor

Javier Aranda García

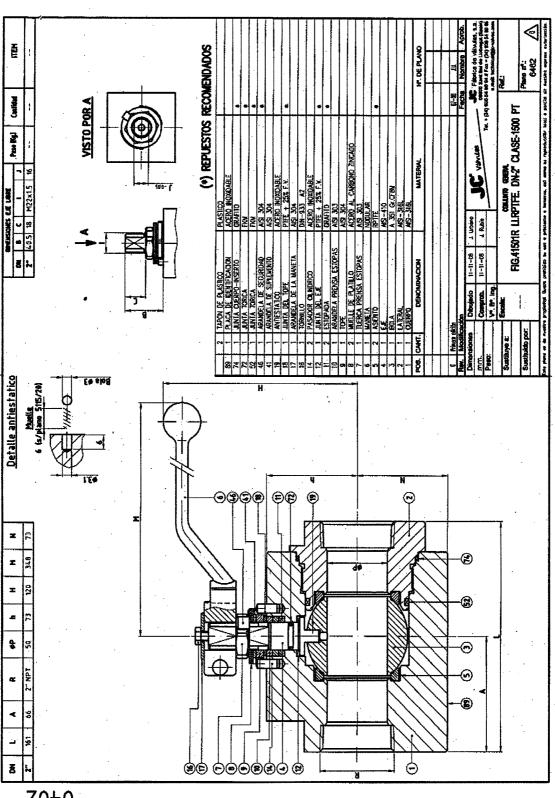
DOCUMENTS ATTACHED:

Sheets reviewed and stamped Accordingly.



Certificate No.: 1050/08 - 9587 Office: Sant Joan Despí (BCN)

Date: 11.11.08 Sheet 3 of 3





Project: FIRE TEST FOR SOFT-SEATED
BALL VALVE

Certificate No.: 1066/08 - 9587

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

Office: Sant Joan Despí (BCN)

Client's Order No.:: ---

Date: 14.11.08

Inspection dates

Order Status: Complete

First: 14.11.08 Final: 14.11.08

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", L.I.RPTFE symetric Valve as per fig. 41501R class 800#.

Body and Connector material LF2 Seats: SEE DRAWING 6461 Ball material: SEE DRAWING 6461

Stem: SEE DRAWING 6461

Marks:

- BODY : Col. 526195 - CONNECTOR : Col. 21192

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 C1066/08

SGS Tecnos, S.A.

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.: 1066/08 - 9587 Office: Sant Joan Despí (BCN)

Date: 11.11.08 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 C1066/08 and drawing 6461 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	800#, 900#, 1500#	100, 150, 260

Surveyor

Jose Luis Rodilla

SGS Tecnos, S.A.

C/. Las Planas nº 1, Nave B

Politoppo Industrial Fontsanta

Poligono Industrial Fontsanta 08970 Sant Joan Despi (Barcelona) Tel.: (34) 93 477 01 71 - 93 477 01 69

Fax.: (34) 93 373 15 00

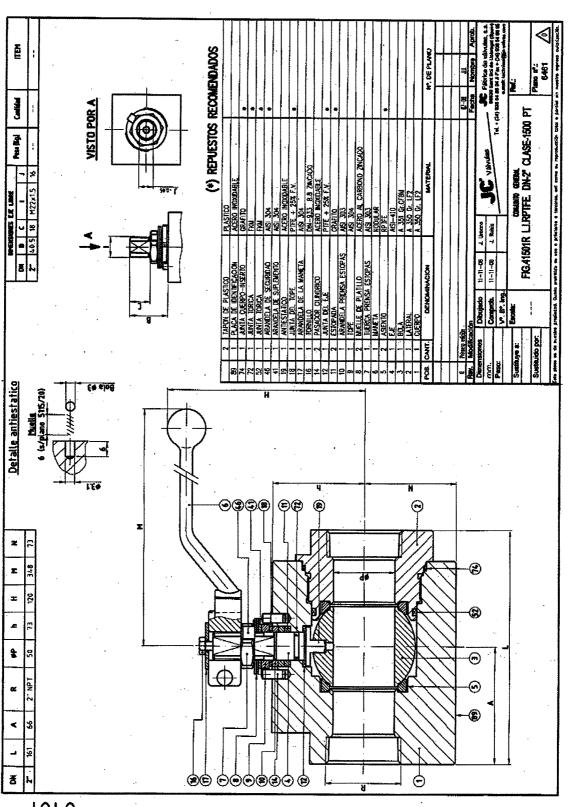
DOCUMENTS ATTACHED:

Sheets reviewed and stamped Accordingly.



Certificate No.: 1066/08 - 9587 Office: Sant Joan Despí (BCN)

Date: 11.11.08 Sheet 3 of 3





FIRE TEST FOR SOFT-SEATED SOCKET WELD BALL VALVE

Certificate No.:

BCL 500929/3

J.C.FABRICA DE VALVULAS S.A.

Office:

BARCELONA

Client's Order No.:

Date:

29.05.96

Order Status:

Complete

Inspection dates 26.01.96 First:

Final:

26.01.96

This certificate is issued to Messrs. 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 socket weld ball valve of 1/2" reduced bore, symetric as per fig. 413AIT, class 800#. Body material A-105.

Seats: PTFE.

Ball material: A-479-316.

Manufacturers identifying numbers: BODY: C415A15-M1.

Bonnet: L415A15 and Ball: 715.15.3.

Mass: 1,3 Kg.

Marks:

BODY

GE

BONNET GE

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 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° 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 413-1/2".



Certificate Nº: BCL 500929/3

Office

:Barcelona

Date

:29.05.96

Sheet 2 of 2

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 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 suplied by the manufacturer, while seat rings were found completely destroyed.

The manufacturers Fire Safe Test Report nº 413-1/2" and drawing nº 1306/413AIT15 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
RB:1/2", 3/4" & 1"	800, 900 & 1500	
FB:3/8", 1/2" & 3/4"	800, 900 & 1500	



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

DOCUMENTS ATTACHED:
9 Sheets reviewed and stamped accordingly.



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Project: FIRE TEST FOR SOFT-SEATED SOCKET WELD BALL VALVE

Certificate No.:

BCL 500929/2

Client: J.C.FABRICA DE VALVULAS S.A.

Office:

BARCELONA

Client's Order No.:

Date:

29.05.96

_ . . .

Complete

Order Status:

S: *

Inspection dates 26.01.96

Final.

26.01.96

This certificate is issued to Messrs. 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 socket weld ball valve of 1" full bore, symetric as per fig. 403AIT, class 800#.

Body material A-105.

Seats: PTFE.

Ball material: A-479-316.

Manufacturers identifying numbers: BODY: C405A25.

Bonnet: L405A25 and Ball: 00250311.

Mass: 3,5 Kg.

Marks:

BODY : GF BONNET : GF

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 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° 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 n^2 403-1".

..../...



Certificate Nº: BCL 500929/2

Office

:Barcelona

Date

:29.05.96

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. 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 suplied by the manufacturer, while seat rings were found completely destroyed.

The manufacturers Fire Safe Test Report n° 403-1" and drawing n° 1305/403AIT25 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
FB:1", 1½", 1½" & 2"	800, 900 & 1500	
RB:1 ½". 1 ½" & 2"	800. 900 & 1500	



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

DOCUMENTS ATTACHED:
9 Sheets reviewed and stamped accordingly.



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PROBRET PROBLET PROBRET		02-09-93	03-01-95		16-11-93		_	16-06-83	L	525	7 6	79-07-87	-						+	-	05-09-95	FECHA	0 0	votus, s.u.	Barcelona)	Ref	Oleven *	1305/403AIT25
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NOTE: NONOSHEE		7	4		ASTM A106 Gr.B SCH 80	STAINLESS ST.	25% G.F. PTE	ZINC PLATED CARBON ST.	15.6	VSI.	25% G.F. Pire	- FE	NST.	NST.	NST.	NODULAR IRON		A 276/479 Tp.316	9			MATERIAL	٦)		IC ® BALL VALVE	FIG.403; A.I.T; 1"; ANSI 800 Lbs.	
	PLASTIC		 		ASTM A	STAIN	25% 6.	ZINCPL	010 933 5.6	CARBON ST.	-9.4C	SKAPHILE FOS ISA	CARBONST	CARBON ST.	CARBON ST.	NODOL	PTE	A 276/	AISI 376	A 105	A 705		11-03-96 Victor F.	12.3.96 July		<u> </u>	FIG.403	
	CAP	GAS IDENTIFICATION PLATE	VALVE IDENTIFICATION PLATE			ANTISTATIC DEVICE	THRUST WASHER	~			SIEM IHRUSI SEAL	GLAND PACKING	LATE	RING	NUT	_	DN.			BODY CONNECTOR		DENOMINACION	Debujado 11-0	Comprobado 2.3	-	Escala,		
	2 PLASTIC CAP		-	_	38 2 NIPPLE	~	-	-,		-	- ,	10 1 GLANDI	-	2	7 1 GLAND NUT	6 1 WRENCH	5 2 SEAT RING	-			1 1 B0DY	Marca Cant.	ENT.	Dimensiones	Peso (Kg) 3.5	Sustituido por		Sustituyea
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