

Project: FIRE SAFE TEST FOR VALVES

Certificate No.: 200/12 - 9587

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

Office: Sant Joan Despí (BCN)

Client's Order No.: ---

Date: 04.18.12

Inspection dates

First: 04.18.12

Order Status: Complete

Final: 04.18.12

This certificate is issued to

Messrs. **J.C FABRICA DE VALVULAS, 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 SAFE TEST in accordance with the requirements specified in ISO 10497:2010, on the following type of valve:

A manually operate Ball Valve of 3" bore 3", as per fig. 6050 1500#
Body and Body connector material ASTM A182 F316
Trim: SEE DRAWING 7497

Marks:

- BODY : Col. HX11-311
- BODY CONNECTOR : Col. HX11-311

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 C200/12

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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 C200/12 and drawing 7497 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>DN</u>	<u>CLASS RATING</u>	<u>PN RATING</u>
3", 4", 5", 6"	1500#, 2500#	260, 420



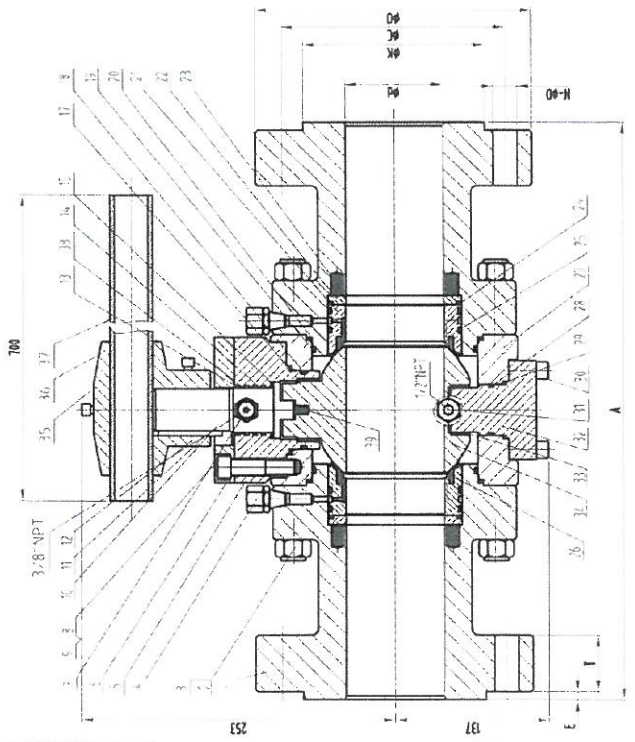
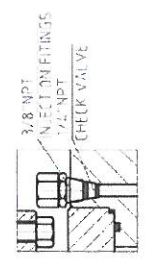
SGS Tecnos, S.A.

Surveyor Iñigo Labrador

DOCUMENTS ATTACHED:
Sheets reviewed and stamped
Accordingly.

(*) RECOMMENDED SPARE PARTS

QTY	DESCRIPTION	REF. PART	UNIT
35	35-SEAL RING	35-SEAL RING	35
36	36-BEARING	36-BEARING	36
37	37-ORING	37-ORING	37
38	38-ORING	38-ORING	38
39	39-ORING	39-ORING	39
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100	100-ORING	100-ORING	100



NPS-LB	A	d	K	C	O	T	N-ØD	E	Weight(kg)	Thickness(mm)
3"-1500LB	473	75	127	254	115	4.17	3-5/16"	35	35	4.1

REFERENCE STANDARD	FACE TO FACE	FLANGE DETAIL	INSP. & TEST.
ASME B16.5	ASME B16.5	ASME B16.5	ASME B16.5

TEST PRESSURE Kg/Cm ² (g)	HYDROSTATIC	AIR SEAT & BACKSEAT	SEAT
383	383	383	383

7497