Project:	FIRE TEST FOR SOFT-SEATED FLANGED BALL VALVE	*Certificate No.:*	BCL 500929/8
Client:	J.C.FABRICA DE VALVULAS S.A.	*Office:*	BARCELONA
Client's Order No.:	---	*Date:*	02.07.96
		Order Status:	Complete
Inspection dates First:	17.05.96	*Final:*	17.05.96

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 flanged ball valve of 6" full bore, bi-directional as per fig.1515-AIT, class 150 #.
Body material A-216-WCB.
Seats: PTFE.
Ball material: A-351-CF8M.
Manufacturers identifying numbers: BODY: C1515A150.
Bonnet: L1515A150 and Ball: B2515150.
Mass: 92.5 Kg.
Marks:

BODY	:	011,05
BONNET	:	012,012

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 appropiate 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 1515-6A & 1515-6B.

.../...

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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. 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 1515-6A, 1515-6B and drawing nº 1401/1515AIT150 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
6", 8", 10" & 12"	150 & 300	--
150, 200, 250 & 300	--	16, 25 & 40

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

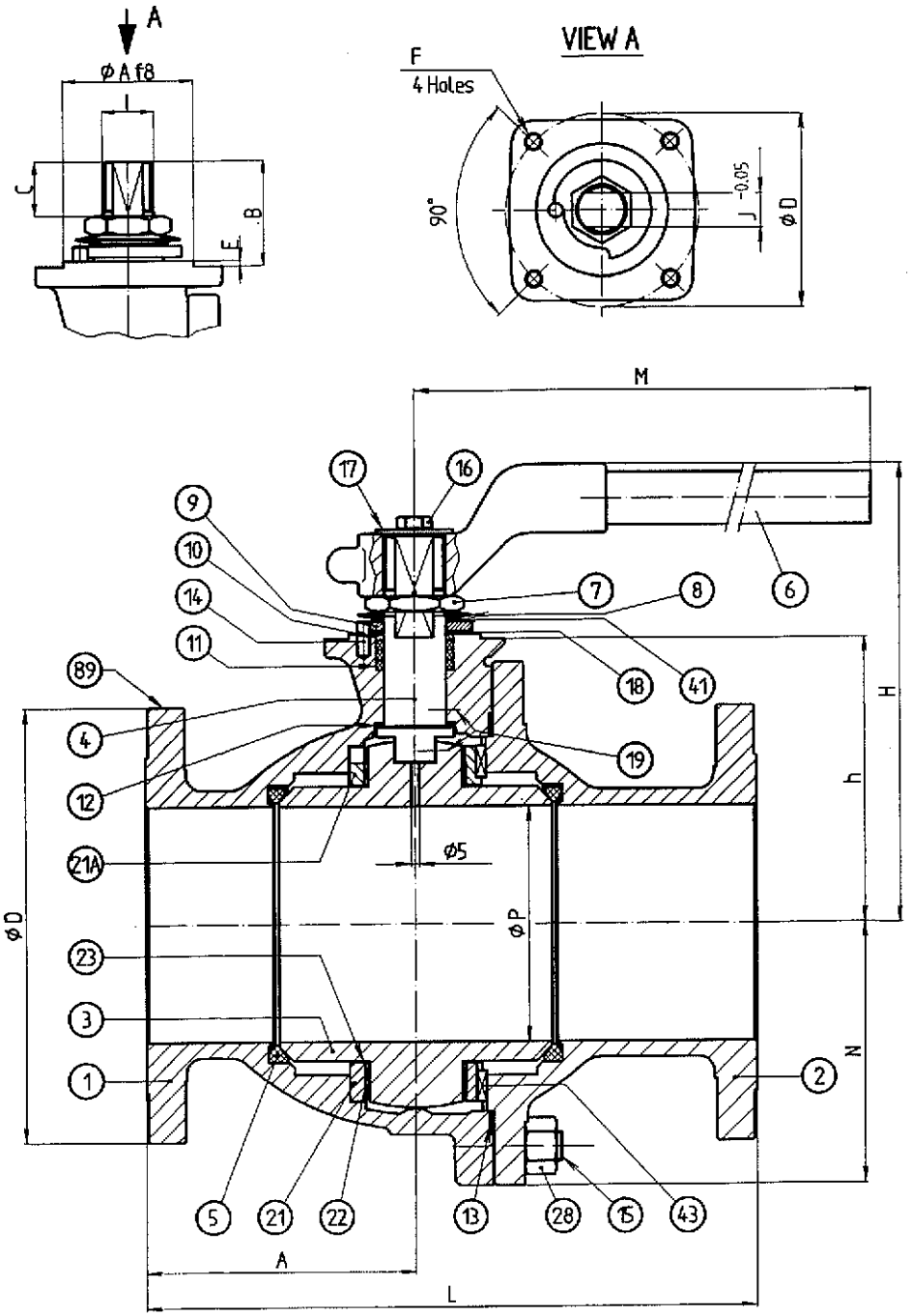
DOCUMENTS ATTACHED:
17 Sheets reviewed and stamped accordingly.

1401

DN	L	ØD	ØP	A	M	H	h	N
6"	394	294.5	151	174	774	294.5	183	168

BALL VALVES FREE STEM DIMENSIONS									WEIGHT	QUANTITY	ITEM
DN	ØA	B	C	ØD	E	F	I	J			
6"	85	66	38.5	125	3	M12	M40 x 2	29			

NOTED AND FOUND CORRECT
ATTACHED TO Q CERTIFICATE
NO. Bol 500929/8
SHEET 1 OF. 17



	2	PLASTIC CAP	PLASTIC		
89	1	IDENTIFICATION PLATE	STAINLESS ST.	A1	07-06-91
43	2	KEY	AISI 316	DIN 6885 6 x 6 x 20	
41	1	SPACER	CARBON ST.	200150 / 41	10-06-82
28	12	NUT	A 194 Gr. 2HM	5184 / 28	31-09-84
23	2	BEARING	PTFE	75 x 60 x 1	
22	2	TRUNNION BEARING	50% S.S + PTFE	QG1501515	18-01-95
21A	1	BALL TRUNNION	E.N.P CARBON ST.	GBS1501515	18-01-95
21	1	BALL TRUNNION	E.N.P CARBON ST.	GBI1501515	18-01-95
19	2	ANTISTATIC DEVICE	STAINLESS ST.		
18	1	THRUST WASHER	25% G.F. PTFE	50 x 40 x 2	
17	1	WASHER	ZINC PLATED CARBON ST.	5183 / 17	30-04-82
16	1	BOLT	DIN 933 5.6 ZINC PLATED	DIN 933 M12 x 20	
15	12	STUD	A 193 Gr.B7M	5183 / 15-2	04-06-85
14	1	STOP PIN	CARBON ST.	DIN 6325 8 x 20	
13	1	BODY CONNECTOR SEAL	AISI-316L + GRAPHITE	1500T300	05-10-92
12	1	STEM THRUST SEAL	25% G.F. PTFE	50.7 x 41 x 3	
11	3	GLAND PACKING	GRAPHITE	50 x 40 x 7	
10	1	GLAND	AISI 303	5183 / 10-1	03-02-86
9	1	STOP PLATE	CARBON ST.	00830920	16-12-91
8	2	DISK SPRING	CARBON ST.	5183 / 08	30-05-83
7	1	GLAND NUT	CARBON ST. ZINC	5183 / 07	07-07-87
6	1	WRENCH	NODULAR IRON	M150ND	29-03-93
5	2	SEAT RING	PTFE	00830521-M2	07-02-91
4	1	STEM	A 276/479 TP.316	E1515150	12-06-95
3	1	BALL	A 351 Gr. CF8M	B2515150	21-11-94
2	1	BODY CONNECTOR	A 216 Gr. WCB (C ≤ 0.25%)	L1515A150	12-01-95
1	1	BODY	A 216 Gr. WCB (C ≤ 0.25%)	C1515A150	12-01-95
Marca	Cant	DENOMINACION	MATERIAL	N°.DE PLANO	FECHA

mm	Dibujado	21-06-96	Victor F.
Dimensiones	Comprobado	21.06.96	
Peso (Kg) 92.5	V°B° Ing.		
Sustituido por	Escala. 1:3.28	JC® BALL VALVE FIG. 1515; A.I.T; DN 6"; ANSI150 RF; FB	Ref.
Sustituye a			Plano n° 1401 / 1515AIT150

JC Fábrica de válvulas, s.a.
Hospitalet de Ll. (Barcelona)