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| SURVEY OF: FIRE TYPE TESTING OF BUTTERFLY VALVES IN ACCORDANCE WITH BS 6755: PART 2: 1987 | | |
| Report No.: 98-BC9112 | Date: 28 May 1998 | Port: Barcelona, Spain |
| Vessel's Name: | | PID: P18697 |
| Manufacturer: V. Bach, S/A | | Mfg.No.: |
| Purchaser/Builder/S.Y.: | | PO No./Hull No.: |
| Location: Figueres (Girona), Spain | | Rating (WP/HP/KW): |
| Serial Number: | Weight: | Test Pressure: |
| Material Test Report No.: | Service Use: Butterfly Valves for Cargo Piping Systems | |
| Drawing No. ABS London ESD Design Review Approval Letter Ref.: JEH/LA/58010 of 14 May 1998 | Date Approved: | ABS Markings |

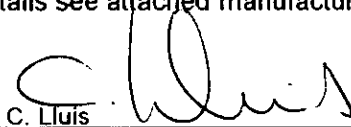
THIS IS TO CERTIFY that the undersigned Surveyor to this Bureau attended for the above survey and reports as follows:

In connection with the ABS Type Approval of subject valves, fire tests in accordance with BS 6755: Part 2: 1987 were carried out at this time, in the presence of the undersigned Surveyor, on the following butterfly valves:

Manufacturer: V. Bach, S/A, Figueres (Girona), Spain
 Type: HPBFV WR. (Wafer Type)
 (Asymmetric valve intended for bi-directional installation)
 Size: 3" (DN 80) and 6" (DN 150)
 Rating: Class 150
 Drawing: 06-2024, dtd 25.06.97. (Body material: ASTM A-216 WCC)

Fire test results were reviewed and found in compliance with performance requirements of BS 6755: Part 2: 1987.

For test details see attached manufacturer's Fire Type Test Reports.


 C. Lluis

Surveyor, American Bureau of Shipping

Surveyor, American Bureau of Shipping

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NOTE: This Report evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Report is a representation only that the vessel, structure, item of material, equipment, machinery or any other item covered by this Report has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitations on the vessel's service or surveys. The validity, applicability and interpretation of this Report is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any notation made in contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.

MISCELLANEOUS SURVEY REPORT

Details of Survey (continued)

As per BS 6755: Part 2: 1987, and based on the satisfactory performance of the valves tested at this time, the following valves are qualified according to size and class rating:

Size: 3" (DN 80), 4" (DN 100), 5" (DN 125), 6" (DN 150), 8" (DN 200), 10" (DN 250) and 12" (DN 300)
 Class Rating: 150 and 300
 PN Rating: 16, 25 and 40

Attachments:

- Fire Type Test Report No. F-04-003/38. 3" (DN 80) Valves
- Fire Type Test Report No. F-04-003/39. 6" (DN 150) Valves
- Dwg. 06-2024, dtd 25.06.97. Class 150
- Dwg. 06-2025, dtd 25.06.97. Class 300



C. Lluis

Surveyor, American Bureau of Shipping

Surveyor, American Bureau of Shipping

| | YES | NO | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. <i>Manufacture or finishing carried out according to:</i> | | | |
| a) approved plans and to the Rules | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b) <u>Manufacturer's</u> specifications. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Testing carried out as required by Rules/Specifications and as reported herein | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Calibration of testing/measuring equipment confirmed, with records maintained at facility or located _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Components stamped with report number and ABS markings | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Billed to: V. Bach, S/A

Tapis, 126

17600 Figueres (Girona), Spain

WCN: _____

Invoice No. And Date: _____

1st Visit: 23 April 1998 Last Visit: 28 May 1998

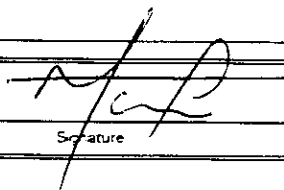
Fees: _____ No. Of Visits: _____

Expenses: _____ SAF: _____ Hours: _____

Total: _____

| AB 113 Distribution | | |
|----------------------------|---|---|
| Client | 2 | |
| ABS Office @ | | |
| ABS Houston CDC | | 1 |
| Local | | 1 |
| Other ABS Programs Coordi. | | 1 |

REVIEWED BY: _____



Signature

11 June 98

Date

Medrid

Port