



BUREAU VERITAS

International Register for Classification of Ships - Established 1828 -
Registre International de Classification de Navires - Fondé en 1828 -

MARINE DIVISION
DIRECTION MARINE

11/210/00/0065-4

The undersigned Jose ROS, surveyor of BUREAU VERITAS at Barcelona acting within the scope of BUREAU VERITAS General Condition.

CERTIFY,

At request of manufacturer V.BACH,SA. attended at their works in Figueras (Gerona) -Spain- on 16th and 28th of March of 2000 and 19th of April of 2000 for the purpose of witnessing the FIRE TEST in accordance with the requirements specified in Standard API 607 Fourth Edition-1993 on the following valves:

- Four (4) Soft seated ball valve
- Symmetric valve intended for bi-directional installation
- Type: PQR-I
- Size: 1/2", 1", 2" and 4"
- Rating: Class 150
- Particulars as per drw. 11-2803

The above valves chosen from the manufacturer's standard production, were submitted to the following:

1. Fire test performed in accordance with the procedure:
Doc.V. Bach N° P-04-503-B
2. On completion, the valves was subjected to a visual examination with satisfactory results and subsequently dismantled in order to verify that valve components comply with the applicable drawing, while seat rings were found destroyed.
3. The manufacturer's Fire test report herewith attached was satisfactory checked and signed.

The above is considered in accordance with the mentioned specifications requirements; therefore the subject valves have satisfactorily passed the prescribed Fire test and can be qualified as follow:

<u>NPS</u>	<u>CLASS RATING</u>
1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5" and 6"	150 and 300

The valves fire tested were identified with: 8/

In witness whereof, this certificate is issued at Barcelona on 10th of May of 2000 for the ends and purpose to which it is designed.



The Surveyor

J. ROS

The latest published Rules of the Bureau Veritas Marine Division and the General Conditions therein are applicable.
La dernière édition des Règlements de la Direction Marine du Bureau Veritas ainsi que les Conditions Générales qui s'y rapportent sont applicables.

Toute personne qui n'est pas partie au contrat aux termes duquel ce document est délivré ne pourra engager la responsabilité du Bureau Veritas pour les inexactitudes ou omissions qui pourraient y être relevées ainsi que pour les erreurs de jugement, fautes ou négligences commises par le personnel de la Société ou par ses agents dans l'établissement de ce document et dans l'exécution des interventions qu'il comporte.

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MARINE DIVISION
DIRECTION MARINE

11/210/00/0065-2

The undersigned Jose ROS, surveyor of BUREAU VERITAS at Barcelona acting within the scope of BUREAU VERITAS General Condition.

CERTIFY,

At request of manufacturer V.BACH,SA, attended at their works in Figueras (Gerona) -Spain- on 14, 16 and 28 of March of 2000 for the purpose of witnessing the FIRE TEST in accordance with the requirements specified in Standard BS 6755 Part 2-1987 on the following valves:

- Four (4) Soft seated ball valve
- Symmetric valve intended for bi-directional installation
- Type: PQR-I
- Size: ½", 1", 2" and 6"
- Rating: Class 150
- Particulars as per drw. 11-2803

The above valves chosen from the manufacturer's Standard production, were submitted to the following:

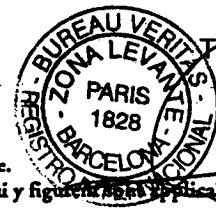
1. Fire test performed in accordance with the procedure:
Doc.V. Bach N° P-04-504-A
2. On completion, the valves was subjected to a visual examination with satisfactory results and subsequently dismantled in order to verify that valve components comply with the applicable drawing, while seat rings were found destroyed.
3. The manufacturer's Fire test report herewith attached was satisfactory checked and signed.

The above is considered in accordance with the mentioned specifications requirements, therefore the subject valves have satisfactorily passed the prescribed Fire test and can be qualified as follow:

<u>NPS</u>	<u>CLASS RATING</u>
½", ¾", 1", 1 ¼", 1 ½", 2", 2 ½", 3", 4", 6", 8", 10" and 12"	150 and 300,

The valves fire tested were identified with: 8

In witness whereof, this certificate is issued at Barcelona on 10th of May of 2000 for the ends and purpose to which it is designed.

The Surveyor

J. ROS

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11/210/00/0065-1

The undersigned Jose ROS, surveyor of BUREAU VERITAS at Barcelona acting within the scope of BUREAU VERITAS General Condition.

CERTIFY,

At request of manufacturer V. BACH, SA. attended at their works in Figueras (Gerona)-Spain on 14th of March of 2000 for the purpose of witnessing the FIRE TEST in accordance with the requirements Specified in Standard API 607 Fourth Edition-1993 on the following valves:

- Two (2) Soft seated ball valve
- Symmetric valve intended for bi-directional installation
- Type: AP
- Size: ½" and 1"
- Rating: Class 600
- Particulars as per drw. 10-2805 Rev. E

The above valves chosen from the manufacturer's standard production, were submitted to the following:

1. Fire test performed in accordance with the procedure:
Doc.V. Bach N° P-04-503-B
2. On completion, the valves was subjected to a visual examination with satisfactory results and subsequently dismantled in order to verify that valve components comply with the applicable drawing, while seat rings were found destroyed.
3. The manufacturer's Fire test report herewith attached was satisfactory checked and signed.

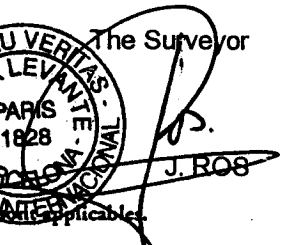
The above is considered in accordance with the mentioned specifications requirements, therefore the subject valves have satisfactorily passed the prescribed Fire test and can be qualified as follow:

NPS
1/4", 3/8", ½", 3/4", 1", 1 1/4" and 1 ½"

CLASS RATING
600, 800 and 900

The valves fire tested were identified with: 8/

In witness whereof, this certificate is issued at Barcelona on 10th of May of 2000 for the ends and purpose to which it is designed.

The Surveyor

J. ROS

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11/210/00/0065-3

The undersigned Jose ROS, surveyor of BUREAU VERITAS at Barcelona acting within the scope of BUREAU VERITAS General Condition.

CERTIFY,

At request of manufacturer V.BACH,SA., attended at their works in Figueras (Gerona) -Spain- on 16th of March of 2000 for the purpose of witnessing the FIRE TEST in accordance with the requirements specified in Standard BS 6755 Part 2-1987 on the following valve:

- One (1) Soft seated ball valve - Trunnion mounted
- Symmetric valve intended for bi-directional installation
- Type : APT
- Size: 6"
- Rating: Class 600
- Particulars as per drw. 10-2806-Rev.B

The above valve chosen from the manufacturer's Standard production, was submitted to the following:


1. Fire test performed in accordance with the procedure:
Doc.V. Bach N° P-04-504-A
2. On completion, the valve was subjected to a visual examination with satisfactory results and subsequently dismantled in order to verify that valve components comply with the applicable drawing, while seat rings were found destroyed.
3. The manufacturer's Fire test report herewith attached was satisfactory checked and signed.

The above is considered in accordance with the mentioned specifications requirements, therefore the subject valve has satisfactorily passed the prescribed Fire test and can be qualified as follow:

<u>NPS</u>	<u>CLASS RATING</u>
6", 8", 10" and 12"	600, 800 and 900

The valve fire tested was identified with: 8

In witness whereof, this certificate is issued at Barcelona on 10th of May of 2000 for the ends and purpose to which it is designed.

 The Surveyor
J. ROS

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Certificate Nr: 11/02/0074-1

The undersigned Jose ROS surveyor of BUREAU VERITAS at Barcelona acting within the scope of BUREAU VERITAS General Condition.

Certify:

At request of manufacturers BAC VALVES, SA. attended at their works in Figueras (Gerona) -Spain- on 17th of May and 05th of June of 2002 for the purpose of witnessing the FIRE TEST in accordance with the requirements, specified in Standard API 607, Fourth Edition-1993, on the following valves:

- Two (2) Soft seated floating ball valve.
- Symmetric valve intended for bi-directional installation.
- Type: AP.
- Size: ½" and 1".
- Rating: Class 1500.
- Particulars as per drawings. 10-2805 Rev. E.

The above valves chosen from the manufacturer's standard production, were submitted to the following:

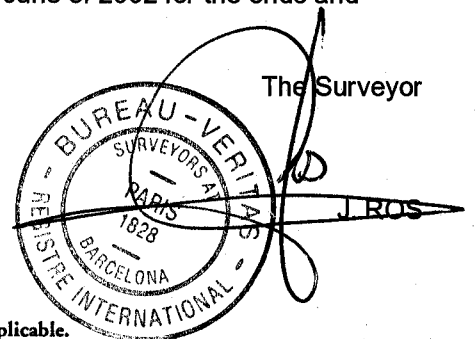
- 1- Fire test performed in accordance with the procedure:
Doc. BAC N° P-04-503-C.
- 2- On completion, the valves was subject to a visual examination with satisfactory results and subsequently dismantled in order to verify that valve components comply with the applicable drawing, while seat rings were found destroyed.
- 3- The manufacturer's Fire Test report herewith attached was satisfactory checked and signed.

The above is considered in accordance with the mentioned specifications requirements, therefore the subject valves have satisfactorily passed the prescribed Fire Test and can be qualified as follow:

<u>NPS</u>	<u>CLASS RATING</u>
¼", 3/8", ½", ¾", 1", 1 ¼" and 1½"	1500 and 2500

The valves fire tested were identified with: 8

In witness whereof, this certificate is issued at Barcelona on 14th of June of 2002 for the ends and purpose to which it is designed.



The latest published Rules of the Bureau Veritas Marine Division and the General Conditions therein are applicable.
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Certificate Nr: 11/02/0074-2

The undersigned Jose ROS surveyor of BUREAU VERITAS at Barcelona acting within the scope of BUREAU VERITAS General Condition.

Certify:

At request of manufacturers BAC VALVES, SA. attended at their works in Figueras (Gerona) -Spain on 25th of April of 2002 for the purpose of witnessing the FIRE TEST in accordance with the requirements specified in Standard API 607, Fourth Edition-1993, on the following valves:

- One (1) Soft seated trunnion mounted ball valve.
- Symmetric valve intended for bi-directional installation.
- Type: TSB.
- Size: 8".
- Rating: Class 150.
- Particulars as per drawing. TSB-150/300/600.

The above valve chosen from the manufacturer's standard production, were submitted to the following:

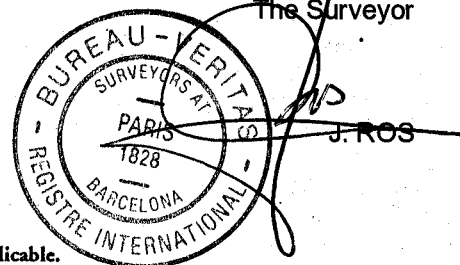
- 1- Fire test performed in accordance with the procedure:
Doc. BAC N° P-04-503-C
- 2- On completion, the valves was subject to a visual examination with satisfactory results and subsequently dismantled in order to verify that valve components comply with the applicable drawing, while seat rings were found destroyed.
- 3- The manufacturer's Fire Test report herewith attached was satisfactory checked and signed.

The above is considered in accordance with the mentioned specifications requirements, therefore the subject valves have satisfactorily passed the prescribed Fire Test and can be qualified as follow:

<u>NPS</u>	<u>CLASS RATING</u>
6" and larger	150 and 300

The valves fire tested were identified with: 8

In witness whereof, this certificate is issued at Barcelona on 14th of June of 2002 for the ends and purpose to which it is designed.



The latest published Rules of the Bureau Veritas Marine Division and the General Conditions therein are applicable.
La dernière édition des Règlements de la Direction Marine du Bureau Veritas ainsi que les Conditions Générales qui y figurent sont applicables.

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Certificate Nr: 11/210/02/0200

The undersigned Jose ROS surveyor of BUREAU VERITAS at Barcelona acting within the scope of BUREAU VERITAS General Condition.

Certify:

At request of manufacturers BAC VALVES, SA. attended at their works in Figueras (Gerona) -Spain- on 18th of September of 2002 for the purpose of witnessing the FIRE TEST in accordance with the requirements, specified in Standard API 607, Fourth Edition-1993, on the following valves:

- One (1) Soft seated trunnion mounted ball valve.
- Symmetric valve intended for bi-directional installation.
- Type: TSB
- Size: 8"
- Rating: Class 600.
- Particulars as per drawings. TSB CLASS 600 dated on 25-09-02

The above valves chosen from the manufacturer's standard production, were submitted to the following:

- 1- Fire test performed in accordance with the procedure:
Doc. BAC N° P-04-503-C.
- 2- On completion, the valves was subject to a visual examination with satisfactory results and subsequently dismantled in order to verify that valve components comply with the applicable drawing, while seat rings were found destroyed.
- 3- The manufacturer's Fire Test report herewith attached was satisfactory checked and signed.

The above is considered in accordance with the mentioned specifications requirements, therefore the subject valves have satisfactorily passed the prescribed Fire Test and can be qualified as follow:

NPS

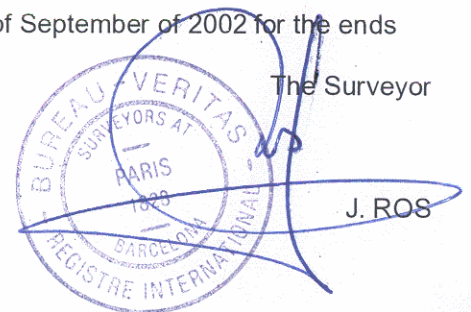
6" and larger

CLASS RATING

Class 600, 800 and 900

The valves fire tested were identified with: 8

In witness whereof, this certificate is issued at Barcelona on 30th of September of 2002 for the ends and purpose to which it is designed.



The Surveyor

J. ROS

The latest published Rules of the Bureau Veritas Marine Division and the General Conditions therein are applicable.
La dernière édition des Règlements de la Direction Marine du Bureau Veritas ainsi que les Conditions Générales qui y figurent sont applicables.

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