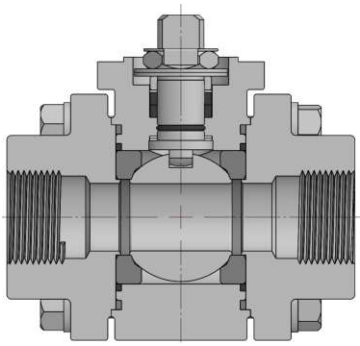
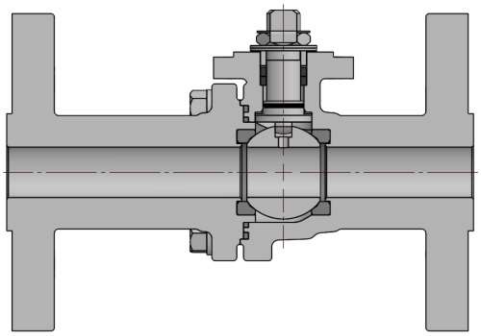
QUALIFICATION CERTIFICATE

FIRE SAFE			
Applicable Standard	**ISO 10497 / API 607**		
Certification Body	SGS / Lloyd's		
Series	Floating ball valves XF / CF / SF / BF / XFH / CFH / SFH / BFH		
Report nº	PTC16.01637.5046 PTC16.01636.5046	VGO8130073/04	PTC17.06071.5123 PTC19.07244.5123 VGO8130073/03
Size	DN200 and below	DN100 and below	DN100 and below
Applicable pressure	CL150 to CL300	CL600 to CL900	CL150 to CL900
Enclosure	FERRITIC STEEL (Carbon Steel)		AUSTENITIC STEEL (Stainless Steel)
Seats	RPTFE (C-RPTFE / TFM / PTFE)		

Three pieces



Two pieces

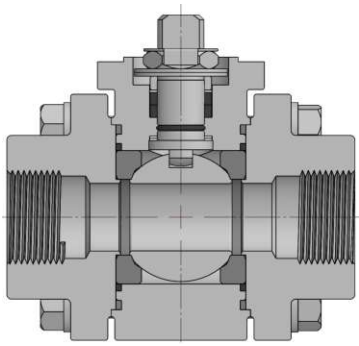


José Jacinto
Product Engineer Responsible

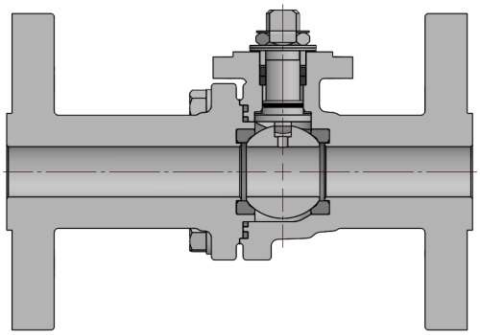
QUALIFICATION CERTIFICATE

FIRE SAFE		
Applicable Standard	**ISO 10497 / API 607**	
Certification Body	SGS / Lloyd's	
Series	Floating ball valves XF / CF / SF / BF / XFH / CFH / SFH / BFH	
Report nº	PTC18.07185.5123 PTC19.03947.5123	VGO8120251/01A1
Size	DN100 and below	DN100 and below
Applicable pressure	CL150 to CL900	CL150 to CL300
Enclosure	DUPLEX STEEL	TITANIUM
Seats	RPTFE (C-RPTFE / TFM / PTFE)	

Three pieces



Two pieces

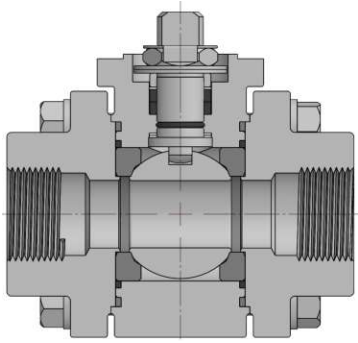


José Jacinto
Product Engineer Responsible

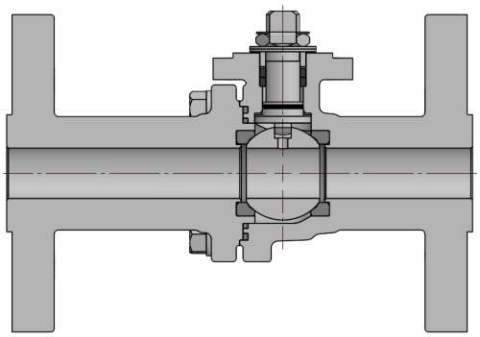
QUALIFICATION CERTIFICATE

FIRE SAFE		
Applicable Standard	**ISO 10497 / API 607**	
Certification Body	SGS	
Series	Floating ball valves XF / CF / SF / BF / XFH / CFH / SFH / BFH	
Report nº	PTC18.05392.5123	PTC18.02071.5123
Size	DN100 and below	DN100 and below
Applicable pressure	CL600 to CL900	CL150 to CL300
Enclosure	FERRITIC STEEL (Carbon Steel)	AUSTENITIC STEEL (Stainless Steel)
Seats	PEEK	

Three pieces



Two pieces



José Jacinto
Product Engineer Responsible

Fire-Safe Test Certificate

Certificate n.º PTC16.01637.5046

Job	*J16.0300.5046.111*
Manufacturer	*VINCO VALVULAS, S.A.*
Test place	*Rua do Progresso, Lote 15, Vilarinho das Cambas*
Test date	*26/04/2016*
Standard(s) Used	*ISO 10497:2010 and API 6th Edition (Set 2010)*
Type	*Ball Valve*
DN	*50*
Class	*150*
Valve form	*3 pieces*
Reference n.º	*SF DN050 XXXX A2 CL150*
Material	*Body/End: A350LF2* *Ball: SS316* *Seats: TFM1600* *Stem: F316-316L*
Drawings	*FST01/2016*
Fire Safe Test Report n.º	*FST01/2016*

All the following values were determined and recorded together with temperatures, times and pressures on fire safe test report

Result of tests — **Satisfactory**

It were performed by Vinco Valvulas, S.A. the following test:

1- Through seat leakage during burn period

2 - Through-seat leakage after cool-down period

3 - External leakage during burn and cool-down period

4 - External leakage after operational test period

5 - Through-seat leakage at low pressure

6 - External leakage at high test pressure to the fully open position

7 - Through seat leakage during burn period

8 -Visual inspection

This is to certify that the fire test has performed by Vinco Valvulas, S.A. under our witness as above, and the results are SATISFIED with the requirements of ISO 10497:2010 and API 6th Edition (Set 2010) for the above product, so SGS PORTUGAL, S.A. hereby confirm the qualification as follows:
DN: DN50 and below, DN65, DN80, DN100
CLASS RATING: 150, 300

Data: *28/04/2016*
Date

Carlos Felgueiras
Technical Responsible

Fire-Safe Test Certificate

Certificate n.º PTC16.01636.5046

Job	*J16.0300.5046.111*
Manufacturer	*VINCO VALVULAS, S.A.*
Test place	*Rua do Progresso, Lote 15, Vilarinho das Cambas*
Test date	*26/04/2016*
Standard(s) Used	*ISO 10497:2010 and API 6th Edition (Set 2010)*
Type	*Ball Valve*
DN	*100*
Class	*150*
Valve form	*3 pieces*
Reference n.º	*SFDN100XXXXA2 CL150*
Material	*Body/End: A350LF2* *Ball: SS316* *Seats: TFM1600* *Stem: F316-316L*
Drawings	*FST02/2016*
Fire Safe Test Report n.º	*FST02/2016*

All the following values were determined and recorded together with temperatures, times and pressures on fire safe test report

Result of tests **Satisfactory**

It were performed by Vinco Valvulas, S.A. the following test:

1- Through seat leakage during burn period

2 - Through-seat leakage after cool-down period

3 - External leakage during burn and cool-down period

4 - External leakage after operational test period

5 - Through-seat leakage at low pressure

6 - External leakage at high test pressure to the fully open position

7 - Through seat leakage during burn period

8 -Visual inspection

This is to certify that the fire test has performed by Vinco Valvulas, S.A. under our witness as above, and the results are SATISFIED with the requirements of ISO 10497:2010 and API 6th Edition (Set 2010) for the above product, so SGS PORTUGAL, S.A. hereby confirm the qualification as follows:
DN: DN100, DN125, DN150 and DN200
CLASS RATING: 150, 300

Data: *28/04/2016*
Date

Carlos Felgueiras
Technical Responsible

Lloyd's Register España, S.A.

Certificate Nº: **VGO8130073/04**

Office: **FERROL**

Date: **17/06/2013**

This certificate is issued to:

VINCO VALVULAS, S.A

*To certify that the undersigned Surveyor to **Lloyd's Register España** , attended on 11-06-2013 at **VINCO VALVULAS S.A.** facilities site in Rua do Progresso, lote 15, Vilarinho das Cambas , Famalicão -Portugal examining and testing the following equipment:*

ONE (1) Design: SF SERIES - FIRESAFE BALL VALVE

- Type: **Ball Valve**
- DN: **DN50/ 2"**
- Class: **PN100/600lbs**
- Valve Form: **3 Pieces**
- Reference Nº: **SF 050XXXX A3 CL600**
- Material:
  - Body :**A350 LF2**
  - End / Flanges: **A350 LF2**
  - Ball : **AISI 316/316L**
  - Stem: **AISI 316/316L**
  - Seat: **PTFE-25% Soft Carbon**
- Drawing: **FST-08 Date: 06.06.2013 R.Santos**

The fire test was carried out according to :

EN ISO 10497:2010. Testing of valves. Fire type-testing requirements
API 607 6th (Set. 2010).

Fire Safe Test Report Document Nr: **FST -08**

- System for fire type-testing of valves**: Pump as pressure source**
- Valve Type**: Symmetric**
- Pressurize system: **High test pressure (75 Bar)**
- Test Fluid **: Water**
- Gear Box: **No Gerar Box**

Valves Qualified according to size and class rating:

- Size: **DN50 AND BELLOW ; DN65; DN80;DN100**
  NSP 2 AND BELLOW; NPS 2 ½ ;NPS 3 ; NPS4
- Pressure ratings: **PN 100; PN 150**
  600lbs;800lbs;900 lbs

Lloyd's Register España S.A. Ferrol Lloyd's Register

Manuel Santiago Pita
Surveyor to Lloyd's Register España S.A.
A member of Lloyd's Register Group

Testing Data Sheets Attached Yes/No

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Fire-Safe Test Certificate

Certificate n.º PTC17.06071.5123

Job	***J17.0396.IND.POR***
Manufacturer	***VINCO VÁLVULAS, S.A.***
Test place	***Rua do Progresso, Lote 15, Vilarinho das Cambas***
Test date	***04/10/2017***
Standard(s) Used	***ISO 10497:2010 and API 607 6th Edition (Set 2010)***
Type	***Floating Ball Valve***
DN	***50***
Class	***150***
Valve form	***3 pieces***
Reference n.º	***SF2F050XXXXF3***
Material	***Body/End: A182 F316*** ***Ball: A351 CF8M*** ***Seats: CG-RPTFE*** ***Stem: A182 F316***
Drawings	***FT FST07/2017***
Fire Safe Test Report n.º	***FST07/2017 - 20171422***

All the following values were determined and recorded together with temperatures, times and pressures on fire safe test report

Result of tests ***Satisfactory***

It were performed by Vinco Válvulas, S.A. the following test:

1- Through seat leakage during burn period

2 - Through-seat leakage after cool-down period

3 - External leakage during burn and cool-down period

4 - External leakage after operational test period

5 - Through-seat leakage at low pressure

6 - External leakage at high test pressure to the fully open position

7 - Through seat leakage during burn period

8 -Visual inspection

This is to certify that the fire test has performed by Vinco Válvulas, S.A. under our witness as above, and the results are SATISFIED with the requirements of ISO 10497:2010 and API 607 6th Edition (Set 2010) for the above product, so SGS PORTUGAL, S.A. hereby confirm the qualification as follows:
DN: DN100 and below
CLASS RATING: 150, 300

Data: ***04/10/2017***
Date



Carlos Felgueiras
Technical Responsible

Fire-Safe Test Certificate

Certificate n.º PTC19.07244.5123

Job	***J19.0247.IND.POR***
Manufacturer	***VINCO Válvulas, S.A.***
Test Place	***Rua do Progresso, Lote 15, Vilarinho das Cambas***
Test Date	***19/09/2018***
Standard(s) Used	***ISO 10497: 2010 and API 607 6th Edition (Set 2010)***
Type	***Floating Ball Valve***
DN	***50***
Class	***300***
Valve Form	***3 pieces***
Reference Nº	***XX2F050XXXXFF3***
Material	***Body/End: A351 CF3M*** ***Ball: A351 CF8M*** ***Seats: CRPTFE*** ***Stem: A479 316***
Drawings	***FL005.R00***
Fire Safe Test Report n.º	***FST10/2019***

All the following values were determined and recorded together with temperatures, times and pressures on fire safe test report

Result of Tests ***Satisfactory***

It was performed by Vinco Válvulas, S.A. the following test:

1- Through seat leakage during burn period

2 - Through-seat leakage after cool-down period

3 - External leakage during burn and cool-down period

4 - External leakage after operational test period

5 - Through-seat leakage at low pressure

6 - External leakage at high test pressure to the fully open position

7 - Through seat leakage during burn period

8 -Visual inspection

This is to certify that the fire test has performed by VINCO Válvulas, S.A., under our witness as above, and the results are SATISFIED with the requirements of ISO 10497:2010 and API 607 6th Edition (Set 2010) for the above product, so SGS PORTUGAL, S.A. hereby confirm the qualification as follows:
DN: 100 and below
CLASS RATING: 300; 600

Date: ***24-09-2019***

SOCIEDADE GERAL DE SUPERINTENDÊNCIAS SGS Felgueiras

Carlos Felgueiras
Technical Responsible

Este documento foi emitido pela Companhia de acordo com as Condições Gerais de Serviço disponíveis em http://www.sgs.com/terms_and_conditions.htm. Chama-se especial atenção às cláusulas referentes aos limites de responsabilidade, indemnização e jurisdição.
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Lloyd's Register España, S.A.

Certificate Nº: **VGO8130073/03**

Office: **FERROL**

Date: **17/06/2013**

This certificate is issued to:

VINCO VALVULAS, S.A

*To certify that the undersigned Surveyor to **Lloyd's Register España** , attended on 11-06-2013 at **VINCO VALVULAS S.A.** facilities site in Rua do Progresso, lote 15, Vilarinho das Cambas , Famalicão -Portugal examining and testing the following equipment:*

ONE (1) Design: SF SERIES - FIRESAFE BALL VALVE

- Type: **Ball Valve**
- DN: **DN50/ 2"**
- Class: **PN100/600lbs**
- Valve Form: **3 Pieces**
- Reference Nº: **SF 050XXXX F3 CL600**
- Material:
  - Body : **AISI 316/316L**
  - End / Flanges: **AISI 316/316L**
  - Ball : **AISI 316/316L**
  - Stem: **AISI 316/316L**
  - Seat: **PTFE-25% Soft Carbon**
- Drawing: **FST-07 Date: 06.06.2013 R.Santos**

The fire test was carried out according to :

EN ISO 10497:2010. Testing of valves. Fire type-testing requirements
API 607 6th (Set. 2010).

Fire Safe Test Report Document Nr: **FST -07**

- System for fire type-testing of valves**: Pump as pressure source**
- Valve Type**: Symmetric**
- Pressurize system: **High test pressure (75 Bar)**
- Test Fluid **: Water**
- Gear Box: **No Gerar Box**

Valves Qualified according to size and class rating:

- Size: **DN50 AND BELLOW ; DN65; DN80;DN100**
  NSP 2 AND BELLOW; NPS 2 ½ ;NPS 3 ; NPS4
- Pressure ratings: **PN 100; PN 150**
  600lbs;800lbs;900 lbs

Lloyd's Register España S.A. Ferrol Lloyd's Register

Manuel Santiago Pita
Surveyor to Lloyd's Register España S.A.
A member of Lloyd's Register Group

Testing Data Sheets Attached Yes/No

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the "Lloyd's Register Group". The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Fire-Safe Test Certificate

Certificate n.º PTC18.07185.5123

Job	***J18.0084.IND.POR***
Manufacturer	***VINCO Válvulas, S.A.***
Test Place	***Rua do Progresso, Lote 15, Vilarinho das Cambas***
Test Date	***19/09/2018***
Standard(s) Used	***ISO 10497: 2010 and API 607 6th Edition (Set 2010)***
Type	***Floating Ball Valve***
DN	***50***
Class	***600***
Valve Form	***3 pieces***
Reference Nº	***SF-F2XXXXCT3***
Material	***Body/End: A182 F51*** ***Ball: A182 F51*** ***Seats: CG-RPTFE*** ***Stem: A182 F51***
Drawings	***SF-F2CT3***
Fire Safe Test Report n.º	***FST26/2018***

All the following values were determined and recorded together with temperatures, times and pressures on fire safe test report

Result of Tests ***Satisfactory***

It was performed by Vinco Válvulas, S.A. the following test:

1- Through seat leakage during burn period

2 - Through-seat leakage after cool-down period

3 - External leakage during burn and cool-down period

4 - External leakage after operational test period

5 - Through-seat leakage at low pressure

6 - External leakage at high test pressure to the fully open position

7 - Through seat leakage during burn period

8 -Visual inspection

This is to certify that the fire test has performed by VINCO Válvulas, S.A., under our witness as above, and the results are SATISFIED with the requirements of ISO 10497:2010 and API 607 6th Edition (Set 2010) for the above product, so SGS PORTUGAL, S.A. hereby confirm the qualification as follows:
DN: 100 and below
CLASS RATING: 600; 800; 900

Date: ***21/09/2018***



Digitally signed
by Helder Fileno
Date: 2018-09-21
14:51+01:00

Helder Fileno
Control Management

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Fire-Safe Test Certificate

Certificate n.º PTC19.03947.5123

Job	***J19.0247.IND.POR***
Manufacturer	***VINCO Válvulas, S.A.***
Test Place	***Rua do Progresso, Lote 15, Vilarinho das Cambas***
Test Date	***07/05/2019***
Standard(s) Used	***ISO 10497: 2010 and API 607 6th Edition (Set 2010)***
Type	***Floating Ball Valve***
DN	***50***
Class	***150***
Valve Form	***2 pieces***
Reference Nº	***XX1F050XXXXTT3***
Material	***Body/End: A479 S31803*** ***Ball: A479 S31803*** ***Seats: CG-RPTFE*** ***Stem: A479 S31803***
Drawings	***FL003.R00***
Fire Safe Test Report n.º	***FST003/2019***

All the following values were determined and recorded together with temperatures, times and pressures on fire safe test report

Result of Tests ***Satisfactory***

It was performed by Vinco Válvulas, S.A. the following test:

1- Through seat leakage during burn period

2 - Through-seat leakage after cool-down period

3 - External leakage during burn and cool-down period

4 - External leakage after operational test period

5 - Through-seat leakage at low pressure

6 - External leakage at high test pressure to the fully open position

7 - Through seat leakage during burn period

8 -Visual inspection

This is to certify that the fire test has performed by VINCO Válvulas, S.A., under our witness as above, and the results are SATISFIED with the requirements of ISO 10497:2010 and API 607 6th Edition (Set 2010) for the above product, so SGS PORTUGAL, S.A. hereby confirm the qualification as follows:
DN: 100 and below;
CLASS RATING: 150; 300

Date: ***07/05/2019***

Digitally signed
by Helder Fileno
Date: 2019-05-07
15:37+01:00

Helder Fileno
Control Management

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Lloyd's Register España, S.A.

Certificate Nº: **VGO8120251/01A1**

Office: **FERROL**

Date: **05/02/2013**

This certificate is issued to:

VINCO VALVULAS, S.A

*To certify that the undersigned Surveyor to **Lloyd's Register España** did, at their request attend at the premises 20-12-2012 at **VINCO VALVULAS S.A.** facilities site in Rua do Progresso, lote 15, Vilarinho das Cambas , Famalicão -Portugal examining and testing the following equipment:*

ONE (1) Design: SF SERIES - FIRESAFE BALL VALVE

- Type: **Ball Valve**
- DN: **DN50**
- Class: **150 Lbs**
- Valve Form: **3 Pieces**
- Reference Nº: **SF 050XXXX T3 CL150**
- Material:
  - Body :**Titanium - ASTM B381 F2**
  - End / Flanges: **Titanium -ASTM B381 F2**
  - Ball : **Titanium - ASTM B381 F2**
  - Stem: **Titanium - ASTM B381 F2**
  - Seat: **PTEF-25% Soft Carbon**
- Drawing: **SF-50FB-EØ78 Date: 21-12-2012 R.Santos**

The fire test was carried out according to :

EN ISO 10497:2010. Testing of valves. Fire type-testing requirements
API 607 6th (Set. 2010).

Fire Safe Test Report Document Nr: **FST -01**

- System for fire type-testing of valves**: Pump as pressure source**
- Pressurize system: **Low test pressure**
- Test Fluid **: Water**

Valves Qualified according to size and class rating:

- Size: **DN50 and below, DN65, DN80, DN100**
- Pressure ratings: **150 and 300 lbs.**

Lloyd's Register España S.A. Ferrol Lloyd's Register

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Surveyor to Lloyd's Register España S.A.

Testing Data Sheets Attached Yes/No

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Fire-Safe Test Certificate

Certificate n.º PTC18.05392.5123

Job	***J18.0084.IND.POR***
Manufacturer	***VINCO Válvulas, S.A.***
Test Place	***Rua do Progresso, Lote 15, Vilarinho das Cambas***
Test Date	***24/07/2018***
Standard(s) Used	***ISO 10497: 2010 and API 607 6th Edition (Set 2010)***
Type	***Floating Ball Valve***
DN	***50***
Class	***600***
Valve Form	***3 pieces***
Reference Nº	***SF2F050XXXXB4***
Material	***Body/End: A350 LF2*** ***Ball: A351 CF8M*** ***Seats: PEEK*** ***Stem: A182 F316***
Drawings	***SF2F050C9C9B4***
Fire Safe Test Report n.º	***FST24/2018***

All the following values were determined and recorded together with temperatures, times and pressures on fire safe test report

Result of Tests ***Satisfactory***

It was performed by Vinco Válvulas, S.A. the following test:

1- Through seat leakage during burn period

2 - Through-seat leakage after cool-down period

3 - External leakage during burn and cool-down period

4 - External leakage after operational test period

5 - Through-seat leakage at low pressure

6 - External leakage at high test pressure to the fully open position

7 - Through seat leakage during burn period

8 -Visual inspection

This is to certify that the fire test has performed by VINCO Válvulas, S.A., under our witness as above, and the results are SATISFIED with the requirements of ISO 10497:2010 and API 607 6th Edition (Set 2010) for the above product, so SGS PORTUGAL, S.A. hereby confirm the qualification as follows:
DN: 100 and below
CLASS RATING: 600; 800; 900

Date: ***24/07/2018***



Digitally signed
by Helder Fileno
Date:
2018-07-24
14:28+01:00

Helder Fileno
Control Management

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Fire-Safe Test Certificate

Certificate n.º PTC18.02071.5123

Job	***J18.0084.IND.POR***
Manufacturer	***VINCO Válvulas, S.A.***
Test Place	***Rua do Progresso, Lote 15, Vilarinho das Cambas***
Test Date	***28/02/2018***
Standard(s) Used	***ISO 10497: 2010 and API 607 6th Edition (Set 2010)***
Type	***Floating Ball Valve***
DN	***50***
Class	***150***
Valve Form	***2 pieces***
Reference Nº	***BF1XXXXFF4***
Material	***Body/End: ASTM A182 F316*** ***Ball: ASTM A351 CF8M*** ***Seats: PEEK*** ***Stem: ASTM A182 F316***
Drawings	***BF1C9C9FF4***
Fire Safe Test Report n.º	***FST14/2018***

All the following values were determined and recorded together with temperatures, times and pressures on fire safe test report

Result of Tests ***Satisfactory***

It was performed by Vinco Válvulas, S.A. the following test:

1- Through seat leakage during burn period

2 - Through-seat leakage after cool-down period

3 - External leakage during burn and cool-down period

4 - External leakage after operational test period

5 - Through-seat leakage at low pressure

6 - External leakage at high test pressure to the fully open position

7 - Through seat leakage during burn period

8 -Visual inspection

This is to certify that the fire test has performed by VINCO Válvulas, S.A., under our witness as above, and the results are SATISFIED with the requirements of ISO 10497:2010 and API 607 6th Edition (Set 2010) for the above product, so SGS PORTUGAL, S.A. hereby confirm the qualification as follows:
DN: 100 and below
CLASS RATING: 150; 300

Date: ***28/02/2018***

Digitally signed by Helder Fileno
Date: 2018-02-28 14:52Z

Helder Fileno
Control Management

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