

# JC VALVES

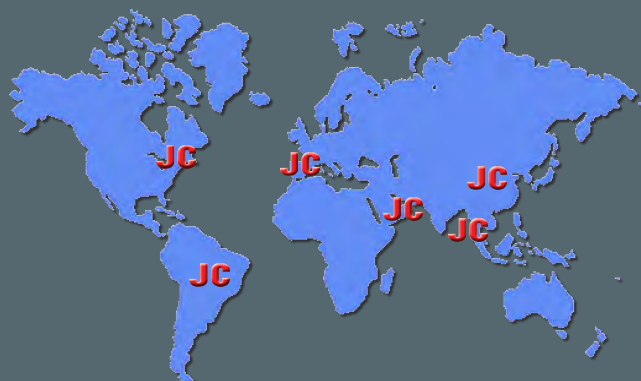
Taking Care of the  
Environment



EN ISO 15848-1  
**FUGITIVE  
EMISSIONS**

Type Test Certified

ISO FE BH – CO3 – SSA 0 – t (-29°C, 200°C) – CL 300 – ISO 15848-1  
ISO FE CH – CO3 – SSA 0 – t (-46°C, 29°C) – CL 300 – ISO 15848-1



[www.jc-valves.com](http://www.jc-valves.com)



**FUGITIVE EMISSIONS TEST REPORT**

According Standard ISO 15848-1:2006

**1. Name and address of the valve manufacturer**

JC Fábrica de válvulas S.A.

C/ Cantabria Nº 2 Pol. Ind. Les Salines - 08830 - Sant Boi de Llobregat - Barcelona (Spain)

**2. Valve size and pressure class**

Size: 1 1/2" - Class: 300 Lb

6" - Class: 300 Lb

**3. Valve model number and style**

Fig. 530 AIT DN- 1/2" ANSI-300 Serial Nr: 67163 - IT 3 - Drawing Nr 172

Fig. 530 AIT DN- 6" ANSI-300 Serial Nr: 67159 - IT 8 - Drawing Nr 172

**4. Method sample selection**

Random of the stock

**5. Diagram of the test rig and the data of the test equipment**

Annex I

**6. Date of test**

Since 31/07/07 to 25/09/07 - 6"

Since 25/09/07 to 4/10/07 - 1 1/2"

**7. Reference standards**

ISO 15848-1:2006

**8. Test fluid**

Helium (97% purity)

**9. Valve performance classes achieved**

Tightness class: BH

Endurance class: CO3

Temperature class: 200° C

Adjustments of gland nut: 0

**10. Valve mounting instructions**

Annex II

**11. Valve repacking before type test, if applicable**

No applicable

**12. Insulation of test, if applicable**

Glass-fiber and aluminium adhesive tape

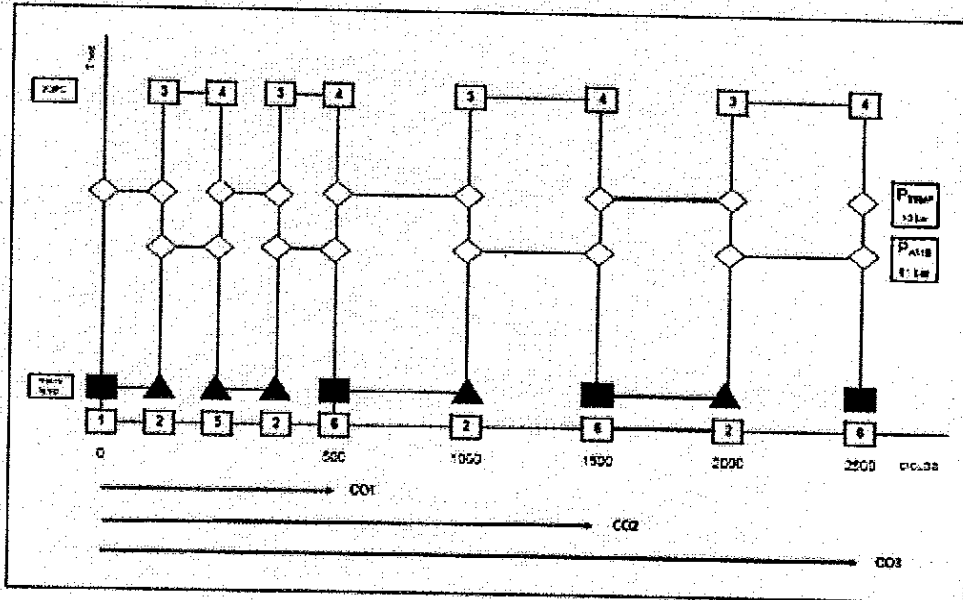
**13. Valve operation data**

|                                |                                       |                                    |
|--------------------------------|---------------------------------------|------------------------------------|
| ✓ Valve operating torque:      | <u>1 1/2"</u><br>Maximum torque 60 NM | <u>6"</u><br>Maximum torque 475 NM |
| ✓ Gland nut tightening torque: | 90 NM                                 | 40 NM                              |
| ✓ Stroke/angle:                | 90°                                   | 90°                                |

**14. Description of the actuator**

Pneumatic actuator ACTREG ASR80 (1 1/2") &amp; ASR1750 (6")

**15. Copy of the test profile**



**16. Detailed results of the test**  
*Annex III*

**17. Qualification certificate**  
*Annex IV*

**The specific product data annex,**  
*Annex V:*

- a) Cross sectional valve assembly drawing
- b) Bill of valve materials
- c) Stem or shaft seal description, dimensions and specification
- d) Body seal description, dimension and specification
- e) Material specification of stem seal components
- f) Hydrostatic test certificate

Responsible of the test

JC Quality Manager

SGS Inspector



**SGS Tecnos, S.A.**

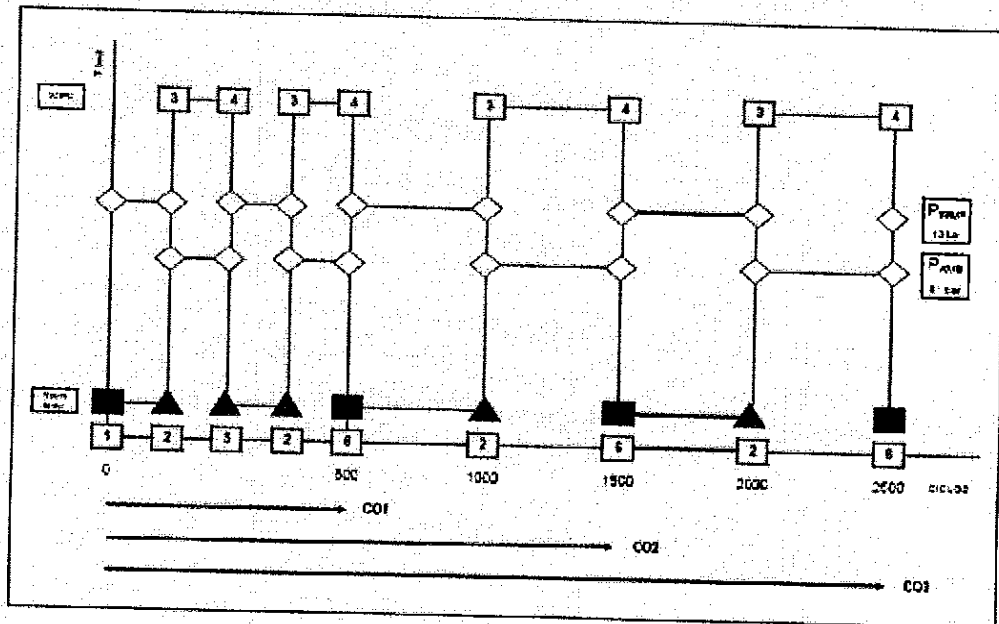
**FUGITIVE EMISSIONS TEST REPORT**

According Standard ISO 15848-1:2006

- 1. Name and address of the valve manufacturer**  
JC Fábrica de válvulas S.A.  
C/ Cantabria Nº 2 Pol. Ind. Les Salines - 08830 - Sant Boi de Llobregat - Barcelona (Spain)
- 2. Valve size and pressure class**  
Size: 1 ½" - Class: 300 Lb  
6" - Class: 300 Lb
- 3. Valve model number and style**  
Fig. 530 IIT DN- ½" ANSI-300 Serial Nr: 65997 - IT 6 - Drawing Nr 157  
Fig. 530 IIT DN- 6" ANSI-300 Serial Nr: 65795 - IT 4 - Drawing Nr 157
- 4. Method sample selection**  
Random of the stock
- 5. Diagram of the test rig and the data of the test equipment**  
Annex I
- 6. Date of test**  
Since 23/10/07 to 29/10/07 - 1 ½"  
Since 6/11/07 to 19/11/07 - 6"
- 7. Reference standards**  
ISO 15848-1:2006
- 8. Test fluid**  
Helium (97% purity)
- 9. Valve performance classes achieved**  
Tightness class: CH  
Endurance class: CO3  
Temperature class: -46° C  
Adjustments of gland nut: 0
- 10. Valve mounting instructions**  
Annex II
- 11. Valve repacking before type test, if applicable**  
No applicable
- 12. Insulation of test, if applicable**  
Glass-fiber and aluminium adhesive tape
- 13. Valve operation data**

|                                | <u>1 ½"</u>          | <u>6"</u>             |
|--------------------------------|----------------------|-----------------------|
| ✓ Valve operating torque:      | Maximum torque 55 NM | Maximum torque 700 NM |
| ✓ Gland nut tightening torque: | 90 NM                | 40 NM                 |
| ✓ Stroke/angle:                | 90°                  | 90°                   |
- 14. Description of the actuator**  
Pneumatic actuator ACTREG ASR80 (1 ½") & ASR1750 (6")

**15. Copy of the test profile**



**16. Detailed results of the test**  
Annex III

**17. Qualification certificate**  
Annex IV

**The specific product data annex,**  
Annex V:

- a) Cross sectional valve assembly drawing
- b) Bill of valve materials
- c) Stem or shaft seal description, dimensions and specification
- d) Body seal description, dimension and specification
- e) Material specification of stem seal components
- f) Hydrostatic test certificate

Responsible of the test

JC Quality Manager

SGS Inspector



**SGS Tecnos, S.A.**

## Fugitive Emissions Summary & Coverage Range

| Fig.                          | Rating*             | DN            | NPS       | O'ring | Valve Tested | Stem Dim. | Certificate Num.        | FE Report             |
|-------------------------------|---------------------|---------------|-----------|--------|--------------|-----------|-------------------------|-----------------------|
| 300 - 500 - 600 - 3300 - 3500 | 150# / PN16         | DN15 to DN650 | ½" to 2½" | FKM    | 550LIPK15    | 12mm      | Cert.REP 60-104-2018-IT | JC-FET-INT-001 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 150# / PN16         | DN40 to +     | 1½" to +  | FKM    | 530LIPK80    | 28mm      | Cert.REP 60-107-2018-IT | JC-FET-INT-004 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 150# / PN16         | DN15 to DN650 | ½" to 2½" | AFLAS  | 550LIPK15    | 12mm      | Cert.REP 60-105-2018-IT | JC-FET-INT-002 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 150# / PN16         | DN40 to +     | 1½" to +  | AFLAS  | 530LIPK80    | 28mm      | Cert.REP 60-108-2018-IT | JC-FET-INT-005 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 150# / PN16         | DN15 to DN650 | ½" to 2½" | FFKM   | 550LIM15     | 12mm      | Cert.REP 60-106-2018-IT | JC-FET-INT-003 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 150# / PN16         | DN40 to +     | 1½" to +  | FFKM   | 530LIM80     | 28mm      | Cert.REP 60-109-2018-IT | JC-FET-INT-006 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 300# / PN40         | DN15 to DN50  | ½" to 2"  | FKM    | 550LIPK15    | 12mm      | Cert.REP 60-104-2018-IT | JC-FET-INT-001 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 300# / PN40         | DN40 to +     | 1½" to +  | FKM    | 530LIPK80    | 28mm      | Cert.REP 60-107-2018-IT | JC-FET-INT-004 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 300# / PN40         | DN15 to DN50  | ½" to 2"  | AFLAS  | 550LIPK15    | 12mm      | Cert.REP 60-105-2018-IT | JC-FET-INT-002 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 300# / PN40         | DN40 to +     | 1½" to +  | AFLAS  | 530LIPK80    | 28mm      | Cert.REP 60-108-2018-IT | JC-FET-INT-005 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 300# / PN40         | DN15 to DN50  | ½" to 2"  | FFKM   | 550LIM15     | 12mm      | Cert.REP 60-106-2018-IT | JC-FET-INT-003 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 300# / PN40         | DN40 to +     | 1½" to +  | FFKM   | 530LIM80     | 28mm      | Cert.REP 60-109-2018-IT | JC-FET-INT-006 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 600# / PN63 / PN100 | DN15 to DN25  | ½" to 1"  | FKM    | 550LIPK15    | 12mm      | Cert.REP 60-104-2018-IT | JC-FET-INT-001 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 600# / PN63 / PN100 | DN40 to +     | 1½" to +  | FKM    | 550LIDV40    | 22mm      | Cert.REP 60-114-2018-IT | JC-FET-INT-011 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 600# / PN63 / PN100 | DN15 to DN25  | ½" to 1"  | AFLAS  | 550LIPK15    | 12mm      | Cert.REP 60-105-2018-IT | JC-FET-INT-002 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 600# / PN63 / PN100 | DN40 to +     | 1½" to +  | AFLAS  | 550BLIPK40   | 22mm      | Cert.REP 60-115-2018-IT | JC-FET-INT-012 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 600# / PN63 / PN100 | DN15 to DN25  | ½" to 1"  | FFKM   | 550LIM15     | 12mm      | Cert.REP 60-106-2018-IT | JC-FET-INT-003 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 600# / PN63 / PN100 | DN40 to +     | 1½" to +  | FFKM   | 550BLIM15    | 22mm      | Cert.REP 60-116-2018-IT | JC-FET-INT-013 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 900#                | DN15 to DN20  | ½" to ¾"  | FKM    | 550LIPK15    | 12mm      | Cert.REP 60-104-2018-IT | JC-FET-INT-001 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 900#                | DN25 to +     | 1" to +   | FKM    | 550LIDV40    | 22mm      | Cert.REP 60-114-2018-IT | JC-FET-INT-011 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 900#                | DN15 to DN20  | ½" to ¾"  | AFLAS  | 550LIPK15    | 12mm      | Cert.REP 60-105-2018-IT | JC-FET-INT-002 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 900#                | DN25 to +     | 1" to +   | AFLAS  | 550BLIPK40   | 22mm      | Cert.REP 60-115-2018-IT | JC-FET-INT-012 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 900#                | DN15 to DN20  | ½" to ¾"  | FFKM   | 550LIM15     | 12mm      | Cert.REP 60-106-2018-IT | JC-FET-INT-003 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 900#                | DN25 to +     | 1" to +   | FFKM   | 550BLIM15    | 22mm      | Cert.REP 60-116-2018-IT | JC-FET-INT-013 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 1500#               | DN15 to DN20  | ½" to ¾"  | FKM    | 550LIPK15    | 12mm      | Cert.REP 60-104-2018-IT | JC-FET-INT-001 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 1500#               | DN25 to +     | 1" to +   | FKM    | 550LIDV40    | 22mm      | Cert.REP 60-114-2018-IT | JC-FET-INT-011 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 1500#               | DN15 to DN20  | ½" to ¾"  | AFLAS  | 550LIPK15    | 12mm      | Cert.REP 60-105-2018-IT | JC-FET-INT-002 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 1500#               | DN25 to +     | 1" to +   | AFLAS  | 550BLIPK40   | 22mm      | Cert.REP 60-115-2018-IT | JC-FET-INT-012 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 1500#               | DN15 to DN20  | ½" to ¾"  | FFKM   | 550LIM15     | 12mm      | Cert.REP 60-106-2018-IT | JC-FET-INT-003 rev.00 |
| 300 - 500 - 600 - 3300 - 3500 | 1500#               | DN25 to +     | 1" to +   | FFKM   | 550BLIM15    | 22mm      | Cert.REP 60-116-2018-IT | JC-FET-INT-013 rev.00 |
| 700                           | 150#                | DN15 to DN80  | ½" to 3"  | FKM    | 730LIT25     | 12mm      | Cert.REP 60-123-2018-IT | JC-FET-INT-019 rev.00 |
| 700                           | 150#                | DN20 to DN250 | ¾" to 10" | FKM    | 730LIT80     | 22mm      | Cert.REP 60-124-2018-IT | JC-FET-INT-020 rev.00 |
| 700                           | 300#                | DN15 to DN80  | ½" to 3"  | FKM    | 730LIT25     | 12mm      | Cert.REP 60-123-2018-IT | JC-FET-INT-019 rev.00 |
| 700                           | 300#                | DN20 to DN200 | ¾" to 8"  | FKM    | 730LIT80     | 22mm      | Cert.REP 60-124-2018-IT | JC-FET-INT-020 rev.00 |
| 800                           | 800#                | DN15 to DN50  | ½" to 2"  | FKM    | 81500LIPK25  | 16mm      | Cert.REP 60-125-2018-IT | JC-FET-INT-021 rev.00 |
| 81500                         | 1500#               | DN15 to DN50  | ½" to 2"  | FKM    | 81500LIPK25  | 16mm      | Cert.REP 60-125-2018-IT | JC-FET-INT-021 rev.00 |
| 400                           | 800#                | DN15 to DN50  | ½" to 2"  | FKM    | 41500LIPK25  | 12mm      | Cert.REP 60-126-2018-IT | JC-FET-INT-022 rev.00 |
| 41500                         | 1500#               | DN15 to DN50  | ½" to 2"  | FKM    | 41500LIPK25  | 12mm      | Cert.REP 60-126-2018-IT | JC-FET-INT-022 rev.00 |

**\*See attached coverage rule, the class tested covers all classes lower as well**

| Fig.         | Rating | DN             | NPS        | O'ring | Valve Tested | Stem Dim. | Certificate Num.        | FE Report             |
|--------------|--------|----------------|------------|--------|--------------|-----------|-------------------------|-----------------------|
| 1500         | 150#   | DN250          | 10"        | FKM    | 1530LIT200   | 45mm      | Cert.REP 60-127-2018-IT | JC-FET-INT-023 rev.00 |
| 1500         | 150#   | DN300          | 12"        | FKM    | 1530LIT300   | 60mm      | Cert.REP 60-128-2018-IT | JC-FET-INT-024 rev.00 |
| 1500         | 300#   | DN200 to DN250 | 8" to 10"  | FKM    | 1530LIT200   | 45mm      | Cert.REP 60-127-2018-IT | JC-FET-INT-023 rev.00 |
| 1500         | 300#   | DN300          | 12"        | FKM    | 1530LIT300   | 60mm      | Cert.REP 60-128-2018-IT | JC-FET-INT-024 rev.00 |
| 2500         | 150#   | DN40 to DN250  | 1½" to 10" | FKM    | 2560LICG100  | 35mm      | Cert.REP 60-129-2018-IT | JC-FET-INT-025 rev.00 |
| 2500         | 150#   | DN300 to DN600 | 12" to 24" | FKM    | 2560LICG250  | 65mm      | Cert.REP 60-130-2018-IT | JC-FET-INT-026 rev.00 |
| 2500         | 300#   | DN40 to DN250  | 1½" to 10" | FKM    | 2560LICG100  | 35mm      | Cert.REP 60-129-2018-IT | JC-FET-INT-025 rev.00 |
| 2500         | 300#   | DN300 to DN500 | 12" to 20" | FKM    | 2560LICG250  | 65mm      | Cert.REP 60-130-2018-IT | JC-FET-INT-026 rev.00 |
| 2500         | 600#   | DN40 to DN100  | 1½" to 4"  | FKM    | 2560LICG100  | 35mm      | Cert.REP 60-129-2018-IT | JC-FET-INT-025 rev.00 |
| 2500         | 600#   | DN150 to DN400 | 6" to 16"  | FKM    | 2560LICG250  | 65mm      | Cert.REP 60-130-2018-IT | JC-FET-INT-026 rev.00 |
| 500Q - 3500Q | PN16   | DN15 to DN125  | ½" to 5"   | -      | 540QIIF50    | 19mm      | Cert.REP 60-144-2019-IT | JC-FET-INT-041 rev.00 |
| 500Q - 3500Q | PN16   | DN40 to DN200  | 1½" to 8"  | -      | 540QIIF100   | 28mm      | Cert.REP 60-145-2019-IT | JC-FET-INT-042 rev.00 |
| 500Q - 3500Q | PN40   | DN15 to DN125  | ½" to 5"   | -      | 540QIIF50    | 19mm      | Cert.REP 60-144-2019-IT | JC-FET-INT-041 rev.00 |
| 500Q - 3500Q | PN40   | DN40 to DN200  | 1½" to 8"  | -      | 540QIIF100   | 28mm      | Cert.REP 60-145-2019-IT | JC-FET-INT-042 rev.00 |
| 6000         | 150#   | DN50 to DN250  | 2" to 10"  | FKM    | 6050LIPK80   | 42mm      | Cert.REP 60-110-2018-IT | JC-FET-INT-007 rev.00 |
| 6000         | 150#   | DN50 to DN250  | 2" to 10"  | AFLAS  | 6050LIPK80   | 42mm      | Cert.REP 60-111-2018-IT | JC-FET-INT-008 rev.00 |
| 6000         | 150#   | DN50 to DN250  | 2" to 10"  | FFKM   | 6050LIM80    | 42mm      | Cert.REP 60-112-2018-IT | JC-FET-INT-009 rev.00 |
| 6000         | 150#   | DN300 to DN600 | 12" to 24" | FKM    | 6050LIPK150  | 63mm      | Cert.REP 60-117-2018-IT | JC-FET-INT-014 rev.00 |
| 6000         | 150#   | DN300 to DN600 | 12" to 24" | AFLAS  | 6050LIPK150  | 63mm      | Cert.REP 60-118-2018-IT | JC-FET-INT-015 rev.00 |
| 6000         | 150#   | DN300 to DN600 | 12" to 24" | FFKM   | 6050LIM150   | 63mm      | Cert.REP 60-119-2018-IT | JC-FET-INT-018 rev.00 |
| 6000         | 150#   | DN600 to +     | 24" to +   | FKM    | 6050LIPK250  | 90mm      | Cert.REP 60-113-2018-IT | JC-FET-INT-010 rev.00 |
| 6000         | 150#   | DN600 to +     | 24" to +   | AFLAS  | 6050LIPK250  | 90mm      | Cert.REP 60-120-2018-IT | JC-FET-INT-017 rev.00 |
| 6000         | 150#   | DN600 to +     | 24" to +   | FFKM   | 6050LIPK250  | 90mm      | Cert.REP 60-121-2018-IT | JC-FET-INT-016 rev.00 |
| 6000         | 300#   | DN50 to DN250  | 2" to 10"  | FKM    | 6050LIPK80   | 42mm      | Cert.REP 60-110-2018-IT | JC-FET-INT-007 rev.00 |
| 6000         | 300#   | DN50 to DN250  | 2" to 10"  | AFLAS  | 6050LIPK80   | 42mm      | Cert.REP 60-111-2018-IT | JC-FET-INT-008 rev.00 |
| 6000         | 300#   | DN50 to DN250  | 2" to 10"  | FFKM   | 6050LIM80    | 42mm      | Cert.REP 60-112-2018-IT | JC-FET-INT-009 rev.00 |
| 6000         | 300#   | DN300 to DN600 | 12" to 24" | FKM    | 6050LIPK150  | 63mm      | Cert.REP 60-117-2018-IT | JC-FET-INT-014 rev.00 |
| 6000         | 300#   | DN300 to DN600 | 12" to 24" | AFLAS  | 6050LIPK150  | 63mm      | Cert.REP 60-118-2018-IT | JC-FET-INT-015 rev.00 |
| 6000         | 300#   | DN300 to DN600 | 12" to 24" | FFKM   | 6050LIM150   | 63mm      | Cert.REP 60-119-2018-IT | JC-FET-INT-018 rev.00 |
| 6000         | 300#   | DN600 to +     | 24" to +   | FKM    | 6050LIPK250  | 90mm      | Cert.REP 60-113-2018-IT | JC-FET-INT-010 rev.00 |
| 6000         | 300#   | DN600 to +     | 24" to +   | AFLAS  | 6050LIPK250  | 90mm      | Cert.REP 60-120-2018-IT | JC-FET-INT-017 rev.00 |
| 6000         | 300#   | DN600 to +     | 24" to +   | FFKM   | 6050LIPK250  | 90mm      | Cert.REP 60-121-2018-IT | JC-FET-INT-016 rev.00 |
| 6000         | 600#   | DN50 to DN250  | 2" to 10"  | FKM    | 6050LIPK80   | 42mm      | Cert.REP 60-110-2018-IT | JC-FET-INT-007 rev.00 |
| 6000         | 600#   | DN50 to DN250  | 2" to 10"  | AFLAS  | 6050LIPK80   | 42mm      | Cert.REP 60-111-2018-IT | JC-FET-INT-008 rev.00 |
| 6000         | 600#   | DN50 to DN250  | 2" to 10"  | FFKM   | 6050LIM80    | 42mm      | Cert.REP 60-112-2018-IT | JC-FET-INT-009 rev.00 |
| 6000         | 600#   | DN300 to DN600 | 12" to 24" | FKM    | 6050LIPK150  | 63mm      | Cert.REP 60-117-2018-IT | JC-FET-INT-014 rev.00 |
| 6000         | 600#   | DN300 to DN600 | 12" to 24" | AFLAS  | 6050LIPK150  | 63mm      | Cert.REP 60-118-2018-IT | JC-FET-INT-015 rev.00 |
| 6000         | 600#   | DN300 to DN600 | 12" to 24" | FFKM   | 6050LIM150   | 63mm      | Cert.REP 60-119-2018-IT | JC-FET-INT-018 rev.00 |
| 6000         | 600#   | DN600 to +     | 24" to +   | FKM    | 6050LIPK250  | 90mm      | Cert.REP 60-113-2018-IT | JC-FET-INT-010 rev.00 |
| 6000         | 600#   | DN600 to +     | 24" to +   | AFLAS  | 6050LIPK250  | 90mm      | Cert.REP 60-120-2018-IT | JC-FET-INT-017 rev.00 |
| 6000         | 600#   | DN600 to +     | 24" to +   | FFKM   | 6050LIPK250  | 90mm      | Cert.REP 60-121-2018-IT | JC-FET-INT-016 rev.00 |
| 6000         | 900#   | DN50 to DN150  | 2" to 6"   | FKM    | 6050LIPK80   | 42mm      | Cert.REP 60-110-2018-IT | JC-FET-INT-007 rev.00 |
| 6000         | 900#   | DN50 to DN150  | 2" to 6"   | AFLAS  | 6050LIPK80   | 42mm      | Cert.REP 60-111-2018-IT | JC-FET-INT-008 rev.00 |
| 6000         | 900#   | DN50 to DN150  | 2" to 6"   | FFKM   | 6050LIM80    | 42mm      | Cert.REP 60-112-2018-IT | JC-FET-INT-009 rev.00 |

| Fig. | Rating | DN             | NPS       | O'ring | Valve Tested | Stem Dim. | Certificate Num.        | FE Report             |
|------|--------|----------------|-----------|--------|--------------|-----------|-------------------------|-----------------------|
| 6000 | 900#   | DN200 to DN500 | 8" to 20" | FKM    | 6050LIPK150  | 63mm      | Cert.REP 60-117-2018-IT | JC-FET-INT-014 rev.00 |
| 6000 | 900#   | DN200 to DN500 | 8" to 20" | AFLAS  | 6050LIPK150  | 63mm      | Cert.REP 60-118-2018-IT | JC-FET-INT-015 rev.00 |
| 6000 | 900#   | DN200 to DN500 | 8" to 20" | FFKM   | 6050LIM150   | 63mm      | Cert.REP 60-119-2018-IT | JC-FET-INT-018 rev.00 |
| 6000 | 900#   | DN200 to +     | 8" to +   | FKM    | 6050LIPK250  | 90mm      | Cert.REP 60-113-2018-IT | JC-FET-INT-010 rev.00 |
| 6000 | 900#   | DN200 to +     | 8" to +   | AFLAS  | 6050LIPK250  | 90mm      | Cert.REP 60-120-2018-IT | JC-FET-INT-017 rev.00 |
| 6000 | 900#   | DN200 to +     | 8" to +   | FFKM   | 6050LIPK250  | 90mm      | Cert.REP 60-121-2018-IT | JC-FET-INT-016 rev.00 |
| 6000 | 1500#  | DN50 to DN100  | 2" to 4"  | FKM    | 6050LIPK80   | 42mm      | Cert.REP 60-110-2018-IT | JC-FET-INT-007 rev.00 |
| 6000 | 1500#  | DN50 to DN100  | 2" to 4"  | AFLAS  | 6050LIPK80   | 42mm      | Cert.REP 60-111-2018-IT | JC-FET-INT-008 rev.00 |
| 6000 | 1500#  | DN50 to DN100  | 2" to 4"  | FFKM   | 6050LIM80    | 42mm      | Cert.REP 60-112-2018-IT | JC-FET-INT-009 rev.00 |
| 6000 | 1500#  | DN150 to DN350 | 6" to 14" | FKM    | 6050LIPK150  | 63mm      | Cert.REP 60-117-2018-IT | JC-FET-INT-014 rev.00 |
| 6000 | 1500#  | DN150 to DN350 | 6" to 14" | AFLAS  | 6050LIPK150  | 63mm      | Cert.REP 60-118-2018-IT | JC-FET-INT-015 rev.00 |
| 6000 | 1500#  | DN150 to DN350 | 6" to 14" | FFKM   | 6050LIM150   | 63mm      | Cert.REP 60-119-2018-IT | JC-FET-INT-018 rev.00 |
| 6000 | 1500#  | DN150 to +     | 6" to +   | FKM    | 6050LIPK250  | 90mm      | Cert.REP 60-113-2018-IT | JC-FET-INT-010 rev.00 |
| 6000 | 1500#  | DN150 to +     | 6" to +   | AFLAS  | 6050LIPK250  | 90mm      | Cert.REP 60-120-2018-IT | JC-FET-INT-017 rev.00 |
| 6000 | 1500#  | DN150 to +     | 6" to +   | FFKM   | 6050LIPK250  | 90mm      | Cert.REP 60-121-2018-IT | JC-FET-INT-016 rev.00 |

**JC Fábrica de Válvulas S.A.U.**

Av. Segle XXI, 75 - Pol. Ind. Can Calderon  
08830 Sant Boi del Llobregat - Barcelona (Spain)

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jc@jc-valves.com  
www.jc-valves.com

Falta Fig. 515Q, 530Q, 3515Q, 3530Q





Industrie Service

## Bescheinigung der TA-Luft und VDI 2440, Ausgabe November 2000

**JC Fábrica de Válvulas, S.A.U.**  
**Av. Segle XXI, 75,**  
**Poligono Industrial Can Calderon**  
**E-08830 Sant Boi de Llobregat**

Hiermit wird bescheinigt, dass die Kugelhähne der Baureihe SFF, Fig: 516/540, 316/340 und 515/530 sowie EFR Fig 715/730 der genannten Firma gemäß TA-Luft und VDI 2440 (Ausgabe November 2000) überprüft und anerkannt wurden. Einzelheiten sind dem Untersuchungsbericht vom 12. April 2021 zu entnehmen.

**Das Produkt erfüllt die folgenden Anforderungen:**

### TA-Luft gemäß VDI 2440

- Betriebsbedingungen: -20° bis 230°C
- Anzahl Spindelbewegungen: 100.000
- Oberflächenrauigkeit gemäß Zeichnungen
- Maße, Form und Lagetoleranzen gemäß Zeichnungen

Grundlage des Zertifikats ist das Prüfprogramm der TA-Luft, das den Leckagenachweis von Dichtverbindungen hinsichtlich der Einhaltung der spezifischen Leckagerate gemäß TA-Luft, VDI 2440 [ $\lambda \leq 1 \times 10^{-4}$  mbar x l/(s x m)] beinhaltet.

### **Produktbeschreibung: Kugelhahn in Gehäusewerkstoff 1.0619 und 1.4408 (WCB 216 and A 351CF8M, ANSI)**

- Fig: 316/516: DN 65 - 200 PN 16
- Fig: 340/540: DN 15 - 150 PN 40
- Fig: 515: DN 15(1/2") - 200 (8") Class 150
- Fig: 530: DN 15(1/2") - 150 (6") Class 300
  
- Fig: 715: 1/2" - 10" Class 150
- Fig: 730: 1/2" - 8" Class 300

Diese Bescheinigung ist gültig bis April 2024.

München, 11.05.2021



**Zertifizierungsstelle**  
Werkstoff- und Schweißtechnik

(M. Strobel)



EQ3113069

TÜV SÜD Industrie Service GmbH, Westendstraße 199, 80 686 München, Deutschland

## JC Valves with Fugitive Emissions design

JC Fabrica de Valvulas S.A.U certifies that the JC Valves models, class 150# to 600#, as indicated below, are manufactured as standard to the same design with the same packing seals and gaskets as tested in the Fugitive Emission Certificates also indicated below:

JC Models referred to above:

Floating Ball design Fig.515 / 715 / 530 / 730 / 1515 / 1530 ←

Trunnion Mounted Fig. 2515 / 2530 / 2560

The applicable Fugitive Emission certificates are:

|                         |                                |   |
|-------------------------|--------------------------------|---|
| Cert.REP 60-104-2018-IT | Fig 515-530-560-515B-530B-560B | ← |
| Cert.REP 60-114-2018-IT |                                |   |
| Cert.REP 60-107-2018-IT |                                |   |

|                         |                       |
|-------------------------|-----------------------|
| Cert.REP 60-123-2018-IT | Fig 715-730-715B-730B |
| Cert.REP 60-124-2018-IT |                       |

|                         |               |   |
|-------------------------|---------------|---|
| Cert.REP 60-127-2018-IT | Fig 1515-1530 | ← |
| Cert.REP 60-128-2018-IT |               |   |

|                         |                    |
|-------------------------|--------------------|
| Cert.REP 60-129-2018-IT | Fig 2515-2530-2560 |
| Cert.REP 60-130-2018-IT |                    |

JC Quality Department

Sant Boi de Llobregat, 16<sup>th</sup> of July 2020



Certificate no.:  
REP 60-104-2018-IT

Project no.:  
TA LUFT

Report date:  
09/05/2018

Office:  
Curno, Italy

## Independent Third Party Inspection Certificate

| Manufacturer identification                              |  |   |       |
|--|--|---|-------|
| <b>Sede Legale / Unità Operativa Head Office / Plant</b> | JC Fábrica de Válvulas, S.A.U<br>Av. Segle XXI, 75 – Poligono Industrial Can Calderon<br>08830 Sant Boi de Llobregat, Barcelona (Spain)  |   |       |
| Product identification                                   |  |   |       |
| <b>Type:</b>   | 550BLIPK15 FKM GLT: dwg 12929 rev.2  |   |       |
| <b>Description</b>                                       | Ball Valve, Fig 550B DN-1/2" L.I.PK. Class #1500<br>With wrench / RF Flange / O'Ring FKM GLT   |   |       |
| <b>Scope of Certification</b>                            | Prototype test with reference to the requirements of TA LUFT ed. 07/2002 (Technische Anleitung zur Reinhaltung der Luft) Point 5.2.6.4 – VDI 2440 Ed.11/2000 Point 3.3.1.3 and with reference to pr EN ISO 15848-1 ed. 06/2015.  |   |       |
| Reference standard                                       | Test   | Result                                  |       |
| TA LUFT ed. 07/2002                                      | Equivalence criteria of shaft sealing system according to TA LUFT Ed. July 2002 under point 5.2.6.4 and relevant VDI 2440  | <i>Leaks Lower than 10-4 mbar/l s m</i> |       |
| VDI 2440 Ed.11/2000 Point 3.3.1.3                        |  |   |       |
| EN ISO 15848-1 ed. 10/2015.                              | Endurance test (205 cycles) with two Thermal cycle (CO1) and one stem seal adjustment (SS1)  | <i>Leakege class BH</i>                 |       |
| <b>Test location:</b>                                    | JC Fábrica de Válvulas, S.A.U  |   |       |
| <b>Leak detection Method</b>                             | Helium Leak detector (Vacuum Method), Mass Spectrometer type Balzer HLT 150  |   |       |
| Packing Material and sealing Configuration               | Stem O-Ring FKM GLT  | Stem Diameter                           | 12 mm |
|  |  |   |       |
| <b>Examination result:</b>                               | The above reported BALL VALVE was found to meet the standard required qualifying a range of valves of the same type of construction relating to material, design (shape), tolerance classes same packing sealing configuration with stem diameter within the range of 50% lower and 200% higher than the valve under test. temperature range from -46° to 200°C.<br><br>Figure qualified: Body/Body connector Without Oring i.e Fig 515-530-515B-530B-516-540-560-590-560B-590B-340-316-550B-563-599-3515-3530-3516-3540-3316-3340 |   |       |
| <b>Test Report No.:</b>                                  | JC-FET-INT-001 rev.00  |   |       |
| <b>Test Procedure :</b>                                  | QSS 01 – TA Luft test procedure<br>QSS 02 – ISO 15848 Qualification Test procedure   |   |       |

Statement prepared and submitted without prejudice by:

Antonio Borraccino  
Technical Representative  
ABS Group LTD



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Certificate no.:  
REP 60-115-2018-IT

Project no.:  
TA LUFT

Report date:  
08/06/2018

Office:  
Curno, Italy

## Independent Third Party Inspection Certificate

| Manufacturer identification                |   |                                  |
|--|---|----------------------------------|
| Head Office / Plant                        | JC Fábrica de Válvulas, S.A.U<br>Av. Segle XXI, 75 – Poligono Industrial Can Calderon<br>08830 Sant Boi de Llobregat, Barcelona (Spain)   |                                  |
| Product identification                     |   |                                  |
| Type:                                      | 550BLIPK40 AFLAS: dwg 12936 rev.2   |                                  |
| Description                                | Ball Valve, Fig 550B DN 1-1/2" L.I.PK. Class #1500<br>With wrench / RF Flange / O'Ring AFLAS  |                                  |
| Scope of Certification                     | Prototype test with reference to the requirements of TA LUFT ed. 07/2002 (Technische Anleitung zur Reinhaltung der Luft) Point 5.2.6.4 – VDI 2440 Ed.11/2000 Point 3.3.1.3 and with reference to pr EN ISO 15848-1 ed. 06/2015.   |                                  |
| Reference standard                         | Test  | Result                           |
| TA LUFT ed. 07/2002                        | Equivalence criteria of shaft sealing system according to TA LUFT Ed. July 2002 under point 5.2.6.4 and relevant VDI 2440   | Leaks Lower than 10-4 mbar/l s m |
| VDI 2440 Ed.11/2000 Point 3.3.1.3          |   |                                  |
| EN ISO 15848-1 ed. 10/2015.                | Endurance test (205 cycles) with two Thermal cycle (CO1) and one stem seal adjustment (SS1)   | Leakege class BH                 |
| Test location:                             | JC Fábrica de Válvulas, S.A.U   |                                  |
| Leak detection Method                      | Helium Leak detector (Vacuum Method), Mass Spectrometer type Balzer HLT 150   |                                  |
| Packing Material and sealing Configuration | Stem O-Ring AFLAS   | Stem Diameter 22 mm              |
| Examination result:                        | The above reported BALL VALVE was found to meet the standard required qualifying a range of valves of the same type of construction relating to material, design (shape), tolerance classes same packing sealing configuration with stem diameter within the range of 50% lower and 200% higher than the valve under test. temperature range from -20°C to 230°C.<br>Figure qualified: Body/Body connector With Oring ie. Fig. 560-560B-590B-550B-563-599 |                                  |
| Test Report No.:                           | JC-FET-INT-012 rev.00   |                                  |
| Test Procedure :                           | QSS 01 – TA Luft test procedure<br>QSS 02 – ISO 15848 Qualification Test procedure  |                                  |

Statement prepared and submitted without prejudice by:

Antonio Borraccino  
Technical Representative  
ABS Group LTD



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Certificate no.:  
REP 60-116-2018-IT

Project no.:  
TA LUFT

Report date:  
12/06/2018

Office:  
Curno, Italy

## Independent Third Party Inspection Certificate

| Manufacturer identification                                  |   |   |
|--|---|---|
| <b>Sede Legale / Unità Operativa<br/>Head Office / Plant</b> | JC Fábrica de Válvulas, S.A.U<br>Av. Segle XXI, 75 – Poligono Industrial Can Calderon<br>08830 Sant Boi de Llobregat, Barcelona (Spain)   |   |
| Product identification                                       |   |   |
| <b>Type:</b>   | 550BLIM15 FFKM: dwg: 12937 rev.2  |   |
| <b>Description</b>   | Ball Valve, Fig 550B DN 1-1/2" LIM. Class #1500<br>With wrench / RF Flange / O'Ring FFKM  |   |
| <b>Scope of Certification</b>                                | Prototype test with reference to the requirements of TA LUFT ed. 07/2002 (Technische Anleitung zur Reinhaltung der Luft) Point 5.2.6.4 – VDI 2440 Ed.11/2000 Point 3.3.1.3 and with reference to pr EN ISO 15848-1 ed. 06/2015.   |   |
| Reference standard   | Prova / Test  | Risultato / Result                      |
| TA LUFT ed. 07/2002  | Equivalence criteria of shaft sealing system according to TA LUFT Ed. July 2002 under point 5.2.6.4 and relevant VDI 2440   | <i>Leaks Lower than 10-4 mbar/l s m</i> |
| VDI 2440 Ed.11/2000 Point 3.3.1.3                            |   |   |
| EN ISO 15848-1 ed. 10/2015.                                  | Endurance test (205 cycles) with two Thermal cycle (CO1) and one stem seal adjustment (SS1)   | <i>Leakege class BH</i>                 |
| <b>Test location:</b>  | JC Fábrica de Válvulas, S.A.U   |   |
| <b>Leak detection Method</b>                                 | Helium Leak detector (Vacuum Method), Mass Spectrometer type Balzer HLT 150   |   |
| Packing Material and sealing Configuration                   | Stem O-Ring FFKM  | <b>Stem Diameter</b> 22 mm              |
| <b>Examination result:</b>                                   | The above reported BALL VALVE was found to meet the standard required qualifying a range of valves of the same type of construction relating to material, design (shape), tolerance classes same packing sealing configuration with stem diameter within the range of 50% lower and 200% higher than the valve under test. temperature range from -20°C to 300°C.<br>Figure qualified: Body/Body connector With Oring ie. Fig. 560-560B-590B-550B-563-599 |   |
| <b>Test Report No.:</b>                                      | JC-FET-INT-013 rev.00   |   |
| <b>Test Procedure :</b>                                      | QSS 01 – TA Luft test procedure<br>QSS 02 – ISO 15848 Qualification Test procedure  |   |

Statement prepared and submitted without prejudice by:

Antonio Borraccino  
Technical Representative  
ABS Group LTD



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Certificate no.:  
REP 60-114-2018-IT

Project no.:  
TA LUFT

Report date:  
06/06/2018

Office:  
Curno, Italy

## Independent Third Party Inspection Certificate

| Manufacturer identification                              |  |                                  |
|--|--|----------------------------------|
| <b>Sede Legale / Unità Operativa Head Office / Plant</b> | JC Fábrica de Válvulas, S.A.U<br>Av. Segle XXI, 75 – Poligono Industrial Can Calderon<br>08830 Sant Boi de Llobregat, Barcelona (Spain)  |                                  |
| Product identification                                   |  |                                  |
| <b>Type:</b>   | 550LIPK40 FKM GLT: dwg 12935 rev.2   |                                  |
| <b>Description</b>                                       | Ball Valve, Fig 550B DN 1-1/2" L.I.PK. Class #1500<br>With wrench / RF Flange / O'Ring FKM GLT   |                                  |
| <b>Scope of Certification</b>                            | Prototype test with reference to the requirements of TA LUFT ed. 07/2002 (Technische Anleitung zur Reinhaltung der Luft) Point 5.2.6.4 – VDI 2440 Ed.11/2000 Point 3.3.1.3 and with reference to pr EN ISO 15848-1 ed. 06/2015.  |                                  |
| Reference standard                                       | Test   | Result                           |
| TA LUFT ed. 07/2002                                      | Equivalence criteria of shaft sealing system according to TA LUFT Ed. July 2002 under point 5.2.6.4 and relevant VDI 2440  | Leaks Lower than 10-4 mbar/l s m |
| VDI 2440 Ed.11/2000 Point 3.3.1.3                        |  |                                  |
| EN ISO 15848-1 ed. 10/2015.                              | Endurance test (205 cycles) with two Thermal cycle (CO1) and one stem seal adjustment (SS1)  | Leakege class BH                 |
| <b>Test location:</b>                                    | JC Fábrica de Válvulas, S.A.U  |                                  |
| <b>Leak detection Method</b>                             | Helium Leak detector (Vacuum Method), Mass Spectrometer type Balzer HLT 150  |                                  |
| Packing Material and sealing Configuration               | Stem O-Ring FKM GLT  | Stem Diameter 22 mm              |
| <b>Examination result:</b>                               | The above reported BALL VALVE was found to meet the standard required qualifying a range of valves of the same type of construction relating to material, design (shape), tolerance classes same packing sealing configuration with stem diameter within the range of 50% lower and 200% higher than the valve under test. temperature range from -46° to 200°C.<br>Figure qualified: Body/Body connector With Oring ie. Fig. 560-560B-590B-550B-563-599 |                                  |
| <b>Test Report No.:</b>                                  | JC-FET-INT-011 rev.00  |                                  |
| <b>Test Procedure :</b>                                  | QSS 01 – TA Luft test procedure<br>QSS 02 – ISO 15848 Qualification Test procedure   |                                  |

Statement prepared and submitted without prejudice by:

Antonio Borraccino  
Technical Representative  
ABS Group LTD



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Certificate no.:  
REP 60-108-2018-IT

Project no.:  
TA LUFT

Report date:  
18/05/2018

Office:  
Curno, Italy

## Independent Third Party Inspection Certificate

| Manufacturer identification                |   |   |       |
|--|---|---|-------|
| Head Office / Plant                        | JC Fábrica de Válvulas, S.A.U   |   |       |
|  | Av. Segle XXI, 75 – Poligono Industrial Can Calderon<br>08830 Sant Boi de Llobregat, Barcelona (Spain)  |   |       |
| Product identification                     |   |   |       |
| Type:                                      | 530LIPK80 AFLAS: dwg 12933 rev.2  |   |       |
| Description                                | Ball Valve, Fig 530 DN-3" L.I.PK. Class #300<br>With wrench / RF Flange / O'Ring AFLAS  |   |       |
| Scope of Certification                     | Prototype test with reference to the requirements of TA LUFT ed. 07/2002 (Technische Anleitung zur Reinhaltung der Luft) Point 5.2.6.4 – VDI 2440 Ed.11/2000 Point 3.3.1.3 and with reference to pr EN ISO 15848-1 ed. 06/2015.   |   |       |
| Reference standard                         | Test  | Result                                  |       |
| TA LUFT ed. 07/2002                        | Equivalence criteria of shaft sealing system according to TA LUFT Ed. July 2002 under point 5.2.6.4 and relevant VDI 2440   | <i>Leaks Lower than 10-4 mbar/l s m</i> |       |
| VDI 2440 Ed.11/2000 Point 3.3.1.3          |   |   |       |
| EN ISO 15848-1 ed. 10/2015.                | Endurance test (205 cycles) with two Thermal cycle (CO1) and one stem seal adjustment (SS1)   | <i>Leakege class BH</i>                 |       |
| Test location:                             | JC Fábrica de Válvulas, S.A.U   |   |       |
| Leak detection Method                      | Helium Leak detector (Vacuum Method), Mass Spectrometer type Balzer HLT 150   |   |       |
| Packing Material and sealing Configuration | Stem O-Ring AFLAS   | Stem Diameter                           | 28 mm |
| Examination result:                        | The above reported BALL VALVE was found to meet the standard required qualifying a range of valves of the same type of construction relating to material, design (shape), tolerance classes same packing sealing configuration with stem diameter within the range of 50% lower and 200% higher than the valve under test. temperature range from -20°C to 230°C.<br><br>Figure qualified: Body/Body connector Without Oring i.e Fig 515-530-515B-530B-516-540-560-590-560B-590B-340-316-550B-563-599-3515-3530-3516-3540-3316-3340 |   |       |
| Test Report No.:                           | JC-FET-INT-005 rev.00   |   |       |
| Test Procedure :                           | QSS 01 – TA Luft test procedure<br>QSS 02 – ISO 15848 Qualification Test procedure  |   |       |

Statement prepared and submitted without prejudice by:

Antonio Borraccino  
Technical Representative  
ABS Group LTD



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Certificate no.:  
REP 60-107-2018-IT

Project no.:  
TA LUFT

Report date:  
16/05/2018

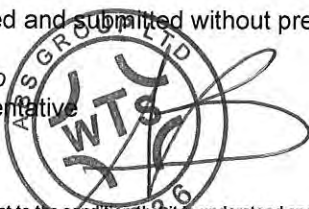
Office:  
Curno, Italy

## Independent Third Party Inspection Certificate

| Manufacturer identification                                  |  |   |       |
|--|--|---|-------|
| <b>Sede Legale / Unità Operativa<br/>Head Office / Plant</b> | JC Fábrica de Válvulas, S.A.U<br>Av. Segle XXI, 75 – Poligono Industrial Can Calderon<br>08830 Sant Boi de Llobregat, Barcelona (Spain)  |   |       |
| Product identification                                       |  |   |       |
| <b>Type:</b>   | 530LIPK80 FKM GLT: dwg 12932 rev.2   |   |       |
| <b>Description</b>   | Ball Valve, Fig 530 DN-3" L.I.PK. Class #300<br>With wrench / RF Flange / O'Ring FKM GLT   |   |       |
| <b>Scope of Certification</b>                                | Prototype test with reference to the requirements of TA LUFT ed. 07/2002 (Technische Anleitung zur Reinhaltung der Luft) Point 5.2.6.4 – VDI 2440 Ed.11/2000 Point 3.3.1.3 and with reference to pr EN ISO 15848-1 ed. 06/2015.  |   |       |
| Reference standard   | Test   | Result                                  |       |
| TA LUFT ed. 07/2002  | Equivalence criteria of shaft sealing system according to TA LUFT Ed. July 2002 under point 5.2.6.4 and relevant VDI 2440  | <i>Leaks Lower than 10-4 mbar/l s m</i> |       |
| VDI 2440 Ed.11/2000 Point 3.3.1.3                            |  |   |       |
| EN ISO 15848-1 ed. 10/2015.                                  | Endurance test (205 cycles) with two Thermal cycle (CO1) and one stem seal adjustment (SS1)  | <i>Leakege class BH</i>                 |       |
| <b>Test location:</b>  | JC Fábrica de Válvulas, S.A.U  |   |       |
| <b>Leak detection Method</b>                                 | Helium Leak detector (Vacuum Method), Mass Spectrometer type Balzer HLT 150  |   |       |
| Packing Material and sealing Configuration                   | Stem O-Ring FKM GLT  | Stem Diameter                           | 28 mm |
| <b>Examination result:</b>                                   | The above reported BALL VALVE was found to meet the standard required qualifying a range of valves of the same type of construction relating to material, design (shape), tolerance classes same packing sealing configuration with stem diameter within the range of 50% lower and 200% higher than the valve under test. temperature range from -46° to 200°C.<br><br>Figure qualified: Body/Body connector Without Oring i.e Fig 515-530-515B-530B-516-540-560-590-560B-590B-340-316-550B-563-599-3515-3530-3516-3540-3316-3340 |   |       |
| <b>Test Report No.:</b>                                      | JC-FET-INT-004 rev.00  |   |       |
| <b>Test Procedure :</b>                                      | QSS 01 – TA Luft test procedure<br>QSS 02 – ISO 15848 Qualification Test procedure   |   |       |

Statement prepared and submitted without prejudice by:

Antonio Borraccino  
Technical Representative  
ABS Group LTD



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Certificate no.:  
REP 60-108-2018-IT

Project no.:  
TA LUFT

Report date:  
18/05/2018

Office:  
Curno, Italy

## Independent Third Party Inspection Certificate

| Manufacturer identification                |   |                                  |       |
|--|---|----------------------------------|-------|
| Head Office / Plant                        | JC Fábrica de Válvulas, S.A.U   |                                  |       |
|  | Av. Segle XXI, 75 – Poligono Industrial Can Calderon<br>08830 Sant Boi de Llobregat, Barcelona (Spain)  |                                  |       |
| Product identification                     |   |                                  |       |
| Type:                                      | 530LIPK80 AFLAS: dwg 12933 rev.2  |                                  |       |
| Description                                | Ball Valve, Fig 530 DN-3" L.I.PK. Class #300<br>With wrench / RF Flange / O'Ring AFLAS  |                                  |       |
| Scope of Certification                     | Prototype test with reference to the requirements of TA LUFT ed. 07/2002 (Technische Anleitung zur Reinhaltung der Luft) Point 5.2.6.4 – VDI 2440 Ed.11/2000 Point 3.3.1.3 and with reference to pr EN ISO 15848-1 ed. 06/2015.   |                                  |       |
| Reference standard                         | Test  | Result                           |       |
| TA LUFT ed. 07/2002                        | Equivalence criteria of shaft sealing system according to TA LUFT Ed. July 2002 under point 5.2.6.4 and relevant VDI 2440   | Leaks Lower than 10-4 mbar/l s m |       |
| VDI 2440 Ed.11/2000 Point 3.3.1.3          |   |                                  |       |
| EN ISO 15848-1 ed. 10/2015.                | Endurance test (205 cycles) with two Thermal cycle (CO1) and one stem seal adjustment (SS1)   | Leakege class BH                 |       |
| Test location:                             | JC Fábrica de Válvulas, S.A.U   |                                  |       |
| Leak detection Method                      | Helium Leak detector (Vacuum Method), Mass Spectrometer type Balzer HLT 150   |                                  |       |
| Packing Material and sealing Configuration | Stem O-Ring AFLAS   | Stem Diameter                    | 28 mm |
| Examination result:                        | The above reported BALL VALVE was found to meet the standard required qualifying a range of valves of the same type of construction relating to material, design (shape), tolerance classes same packing sealing configuration with stem diameter within the range of 50% lower and 200% higher than the valve under test. temperature range from -20°C to 230°C.<br><br>Figure qualified: Body/Body connector Without Oring i.e Fig 515-530-515B-530B-516-540-560-590-560B-590B-340-316-550B-563-599-3515-3530-3516-3540-3316-3340 |                                  |       |
| Test Report No.:                           | JC-FET-INT-005 rev.00   |                                  |       |
| Test Procedure :                           | QSS 01 – TA Luft test procedure<br>QSS 02 – ISO 15848 Qualification Test procedure  |                                  |       |

Statement prepared and submitted without prejudice by:

Antonio Borraccino  
Technical Representative  
ABS Group LTD



This Report is granted subject to the condition that it is understood and agreed that nothing herein contained shall be deemed to relieve any designer, manufacturer, seller, supplier, repairer or operator of any warranty, express or implied and the liability of ABS Services Ltd. (hereinafter referred to as ABS Services) shall be limited to the acts or omissions of its employees, agents or subcontractors. Under no circumstances whatsoever shall ABS Services be liable for any injury or damage to any person or property occurring by reason of negligent operation or any defect in materials, machinery, equipment or other items other than such defects ascertainable by normally accepted testing standards and only upon those items actually inspected by ABS Services and which are covered by this Report.

Certificate no.:  
REP 60-109-2018-IT

Project no.:  
TA LUFT

Report date:  
21/05/2018

Office:  
Curno, Italy

## Independent Third Party Inspection Certificate

| Manufacturer identification                                  |   |   |
|--|---|---|
| <b>Sede Legale / Unità Operativa<br/>Head Office / Plant</b> | JC Fábrica de Válvulas, S.A.U<br>Av. Segle XXI, 75 – Poligono Industrial Can Calderon<br>08830 Sant Boi de Llobregat, Barcelona (Spain)   |   |
| Product identification                                       |   |   |
| <b>Type:</b>   | 530LIM80 FFKM: dwg: 12934 rev.2   |   |
| <b>Description</b>   | Ball Valve, Fig 530 DN-3" LIM Class #300<br>With wrench / RF Flange / O'Ring FFKM   |   |
| <b>Scope of Certification</b>                                | Prototype test with reference to the requirements of TA LUFT ed. 07/2002 (Technische Anleitung zur Reinhaltung der Luft) Point 5.2.6.4 – VDI 2440 Ed.11/2000 Point 3.3.1.3 and with reference to pr EN ISO 15848-1 ed. 06/2015.   |   |
| Reference standard   | Prova / Test  | Risultato / Result                      |
| TA LUFT ed. 07/2002  | Equivalence criteria of shaft sealing system according to TA LUFT Ed. July 2002 under point 5.2.6.4 and relevant VDI 2440   | <i>Leaks Lower than 10-4 mbar/l s m</i> |
| VDI 2440 Ed.11/2000 Point 3.3.1.3                            |   |   |
| EN ISO 15848-1 ed. 10/2015.                                  | Endurance test (205 cycles) with two Thermal cycle (CO1) and one stem seal adjustment (SS1)   | <i>Leakege class BH</i>                 |
| <b>Test location:</b>  | JC Fábrica de Válvulas, S.A.U   |   |
| <b>Leak detection Method</b>                                 | Helium Leak detector (Vacuum Method), Mass Spectrometer type Balzer HLT 150   |   |
| Packing Material and sealing Configuration                   | Stem O-Ring FFKM  | <b>Stem Diameter</b> 28 mm              |
| <b>Examination result:</b>                                   | The above reported BALL VALVE was found to meet the standard required qualifying a range of valves of the same type of construction relating to material, design (shape), tolerance classes same packing sealing configuration with stem diameter within the range of 50% lower and 200% higher than the valve under test. temperature range from -20°C to 300°C.<br><br>Figure qualified: Body/Body connector Without Oring i.e Fig 515-530-515B-530B-516-540-560-590-560B-590B-340-316-550B-563-599-3515-3530-3516-3540-3316-3340 |   |
| <b>Test Report No.:</b>                                      | JC-FET-INT-006 rev.00   |   |
| <b>Test Procedure :</b>                                      | QSS 01 – TA Luft test procedure<br>QSS 02 – ISO 15848 Qualification Test procedure  |   |

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Antonio Borraccino  
Technical Representative  
ABS Group LTD



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Certificate no.:  
REP 60-127-2018-IT

Project no.:  
TA LUFT

Report date:  
17/07/2018

Office:  
Curno, Italy

## Independent Third Party Inspection Certificate

| Manufacturer identification                              |  |   |       |
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| <b>Sede Legale / Unità Operativa Head Office / Plant</b> | JC Fábrica de Válvulas, S.A.U<br>Av. Segle XXI, 75 – Poligono Industrial Can Calderon<br>08830 Sant Boi de Llobregat, Barcelona (Spain)  |   |       |
| Product identification                                   |  |   |       |
| <b>Type:</b>   | 1530AICG200 FKM GLT: dwg 12957 rev.1   |   |       |
| <b>Description</b>                                       | Ball Valve, Fig 1530 AICG DN 8" ANSI-300 RF FB<br>Free stem / RF FLANGE / O'Ring FKM GLT   |   |       |
| <b>Scope of Certification</b>                            | Prototype test with reference to the requirements of TA LUFT ed. 07/2002 (Technische Anleitung zur Reinhaltung der Luft) Point 5.2.6.4 – VDI 2440 Ed.11/2000 Point 3.3.1.3 and with reference to pr EN ISO 15848-1 ed. 06/2015.  |   |       |
| Reference standard                                       | Test   | Result                                  |       |
| TA LUFT ed. 07/2002                                      | Equivalence criteria of shaft sealing system according to TA LUFT Ed. July 2002 under point 5.2.6.4 and relevant VDI 2440  | <i>Leaks Lower than 10-4 mbar/l s m</i> |       |
| VDI 2440 Ed.11/2000 Point 3.3.1.3                        |  |   |       |
| EN ISO 15848-1 ed. 2015.                                 | Endurance test (205 cycles) with two Thermal cycle (CO1) and one stem seal adjustment (SS1)  | <i>Leakege class BH</i>                 |       |
| <b>Test location:</b>                                    | JC Fábrica de Válvulas, S.A.U  |   |       |
| <b>Leak detection Method</b>                             | Helium Leak detector (Vacuum Method), Mass Spectrometer type Balzer HLT 150  |   |       |
| Packing Material and sealing Configuration               | Stem O-Ring FKM GLT  | Stem Diameter                           | 45 mm |
| <b>Examination result:</b>                               | The above reported BALL VALVE was found to meet the standard required qualifying a range of valves of the same type of construction relating to material, design (shape), tolerance classes same packing sealing configuration with stem diameter within the range of 50% lower and 200% higher than the valve under test. temperature range from -46° to 200°C.<br>Figure qualified: Body/Body connector With Oring ie. Fig 1515-1530 |   |       |
| <b>Test Report No.:</b>                                  | JC-FET-INT-023 rev.00  |   |       |
| <b>Test Procedure :</b>                                  | QSS 01 – TA Luft test procedure<br>QSS 02 – ISO 15848 Qualification Test procedure   |   |       |

Statement prepared and submitted without prejudice by:

Antonio Borraccino  
Technical Representative  
ABS Group LTD



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Certificate no.:  
REP 60-128-2018-IT

Project no.:  
TA LUFT

Report date:  
19/07/2018

Office:  
Curno, Italy

## Independent Third Party Inspection Certificate

| Manufacturer identification                              |  |   |       |
|--|--|---|-------|
| <b>Sede Legale / Unità Operativa Head Office / Plant</b> | JC Fábrica de Válvulas, S.A.U<br>Av. Segle XXI, 75 – Poligono Industrial Can Calderon<br>08830 Sant Boi de Llobregat, Barcelona (Spain)  |   |       |
| Product identification                                   |  |   |       |
| <b>Type:</b>   | 1530AICG300 FKM GLT: dwg 12958 rev.1   |   |       |
| <b>Description</b>                                       | Ball Valve, Fig 1530 AICG DN 12" ANSI-300 RF FB<br>Free stem / RF FLANGE / O'Ring FKM GLT  |   |       |
| <b>Scope of Certification</b>                            | Prototype test with reference to the requirements of TA LUFT ed. 07/2002 (Technische Anleitung zur Reinhaltung der Luft) Point 5.2.6.4 – VDI 2440 Ed.11/2000 Point 3.3.1.3 and with reference to pr EN ISO 15848-1 ed. 06/2015.  |   |       |
| Reference standard                                       | Test   | Result                                  |       |
| TA LUFT ed. 07/2002                                      | Equivalence criteria of shaft sealing system according to TA LUFT Ed. July 2002 under point 5.2.6.4 and relevant VDI 2440  | <i>Leaks Lower than 10-4 mbar/l s m</i> |       |
| VDI 2440 Ed.11/2000 Point 3.3.1.3                        |  |   |       |
| EN ISO 15848-1 ed. 2015.                                 | Endurance test (205 cycles) with two Thermal cycle (CO1) and one stem seal adjustment (SS1)  | <i>Leakege class BH</i>                 |       |
| <b>Test location:</b>                                    | JC Fábrica de Válvulas, S.A.U  |   |       |
| <b>Leak detection Method</b>                             | Helium Leak detector (Vacuum Method), Mass Spectrometer type Balzer HLT 150  |   |       |
| <b>Packing Material and sealing Configuration</b>        | Stem O-Ring FKM GLT  | <b>Stem Diameter</b>                    | 60 mm |
| <b>Examination result:</b>                               | The above reported BALL VALVE was found to meet the standard required qualifying a range of valves of the same type of construction relating to material, design (shape), tolerance classes same packing sealing configuration with stem diameter within the range of 50% lower and 200% higher than the valve under test. temperature range from -46° to 200°C.<br>Figure qualified: Body/Body connector With Oring ie. Fig 1515-1530 |   |       |
| <b>Test Report No.:</b>                                  | JC-FET-INT-024 rev.00  |   |       |
| <b>Test Procedure :</b>                                  | QSS 01 – TA Luft test procedure<br>QSS 02 – ISO 15848 Qualification Test procedure   |   |       |

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Technical Representative  
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**Industrial valves — Measurement,  
test and qualification procedures for  
fugitive emissions —**

Part 1:

**Classification system and qualification  
procedures for type testing of valves**

*Robinetterie industrielle — Mesurage, essais et modes opératoires de  
qualification pour émissions fugitives —*

*Partie 1: Système de classification et modes opératoires de  
qualification pour les essais de type des appareils de robinetterie*



- i) valve performance classes achieved;
- j) valve mounting instructions;
- k) valve repacking before type test to be reported, if applicable;
- l) insulation of test valve to be reported, if applicable;
- m) valve operation data:
  - valve operating torque or force;
  - gland bolt tightening torque;
  - stroke/angle;
- n) description of the actuator, if applicable;
- o) copy of the test sequence;
- p) detailed results of the test;
- q) qualification certificate: the certificate shall indicate the number of the standard and its year of issue (e.g. ISO 15848-1:2015).

The specific product data file including the following information shall be the responsibility of the manufacturer and shall be included as an annex:

- a) cross sectional valve assembly drawing;
- b) bill of valve materials;
- c) stem or shaft seal description, dimensions, and specifications;
- d) body seal(s) description, dimensions, and specifications;
- e) material specifications of stem (or shaft) seal components;
- f) hydrostatic test certificate.

## 8 Extension of qualification to untested valves

Upon the successful completion of the test program as defined in this part of ISO 15848, this qualification can be extended to untested sizes and classes of valves of the same type, if the following criteria are met:

- a) the stem (or shaft) seals and body seals are of the same material, design (shape), and construction, independent of the size;
- b) loading arrangement applies a similar sealing stress to the seal element as that applied in the test valve;
- c) the type of motion of the stem (or shaft) is identical;
- d) tolerances classes and surface finishes specifications of all valve components which affect sealing performance are identical;

NOTE The tolerances classes are in accordance with ISO 286-1 and ISO 286-2.

- e) stem diameters are from half to twice the tested valve diameter, half diameter and double diameter included:  $D_o/2 \leq D \leq 2 D_o$  with  $D_o$  being the stem diameter of the tested valve;
- f) the valve class or PN designation is equal or lower;