



Industrial Valves



**FIGITIVE EMISSION
QUALIFICATIONS
IN ACCORDANCE
WITH
ISO 15848-1
&
ISO 15848-2**



Folder A7000630
Cert. No.: MIL-10-0630.2

DET NORSKE VERITAS

SURVEY REPORT

This is to certify that,

requested by Messrs. ZA.VE.RO , Grignasco (NO) Italy, the undersigned surveyor did attend their works for the purpose to certify the following :

**Prototype 3/4" Floating Ball Valve Class ANSI 2500# RTJ, Full Bore, Valve stem Ø 18mm
SN 100427001**

Manufacturer : ZA.VE.RO
Manufacturing JOB No. : 022

Purchaser : NORFLO
Order No. : 2328

Reference Standard and other project documents:

ISO/DIS 15848 part1 and 2 of Edition 15-01-2006 , Measurement, Test and qualification procedures for Fugitive Emissions.
ASME B16.34 Edition 2009
API 6D for construction of the valve
Fugitive Emissions Test Procedure no. IST 7.5.1-09-06 (3/4"2500) Rev.02 dated 1.06.2010 issued by ZA.VE.RO.
Drawing code 075-2P-L-T-2500 – GAR Rev.2 (Stem gasket, RPTFE)

Based on aforementioned ref. documents the Fugitive Emission qualification Test has been carried out and found to meet the acceptance criteria therein required .

The test was performed by an indipended Body LQS and qualified personnel acc. to EN 473 ,III level

The performance of the valve consisting mainly to verify its reliability on primary stem and body seal and to give positive results at different temperatures (from -46°C to 200°C) . The control of the leaks at each step was done by means of an Mass Spectrometer Helium Leak Detector Id no. PT-L02-000 complete with Sniffer and calibrated permeation leak SN 401080150.

Visual Inspection

On completion of the test ,the valve was disassembled and the sealing components were visually checked with satisfactory results as no notable wear was observed and no other significant defects noted.

At the End of the qualification test the Test Report No.LT-R-033/10 dated 18th October issued by LQS was reviewed and endorsed by the attendee parties .

Conclusion

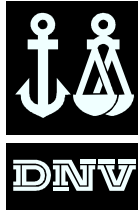
The valve successfully passed the qualification test so to achieve the following :

- > Tightness class :BH (Table C.2)
- > Endurance class: CO-1
- > Temperature class: -46°C to +200°C

Grignasco, Italy 2010-10- 19.

Surveyor to Det Norske Veritas
S.Grieco

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



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DET NORSKE VERITAS

SURVEY REPORT

This is to certify that,

requested by Messrs. ZA.VE.RO , Grignasco (NO) Italy, the undersigned surveyor did attend their works for the purpose to certify the following :

**Prototype 3/4" Floating Ball Valve Class ANSI 2500# RTJ, Full Bore, Valve stem Ø 18mm
SN 100427002**

Manufacturer : ZA.VE.RO
Manufacturing JOB No. : 022

Purchaser : NORFLO
Order No. : 2328

Reference Standard and other project documents:

ISO/DIS 15848- part1 and 2 of Edition 15-01-2006 , Measurement, Test and qualification procedures for Fugitive Emissions.
ASME B16.34 Edition 2009
API 6D for construction of the valve
Fugitive Emissions Test Procedure no. IST 7.5.1-09-07 (3/4"2500) Rev.02 dated 1.06.2010 issued by ZA.VE.RO.
Drawing code 175-2P-L-T-2500 Rev.2 (Stem gasket, RPTFE)

Based on aforementioned ref. documents the Fugitive Emission qualification Test has been carried out and found to meet the acceptance criteria therein required .

The test was performed by an indipended Body LQS and qualified personnel acc. to EN 473 ,III level

The performance of the valve consisting mainly to verify its reliability on primary stem and body seal and to give positive results at different temperatures (from -196°C to +200°C) . The control of the leaks at each step was done by means of an Mass Spectrometer Helium Leak Detector Id no. PT-L02-000 complete with Sniffer and calibrated permeation leak SN 401080150.

Visual Inspection

On completion of the test ,the valve was disassembled and the sealing components were visually checked with satisfactory results as no notable wear was observed and no other significant defects noted.

At the End of the qualification test the Test Report No.LT-R-049/10 dated 22nd October issued by LQS was reviewed and endorsed by the attendee parties .

Conclusion

The valve successfully passed the qualification test so to achieve the following :

- > Tightness class :BH (Table C.2)
- > Endurance class: CO-1
- > Temperature class: -196°C to +200°C

Grignasco, Italy 2010-10- 25.

Surveyor to Det Norske Veritas
S.Grieco

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



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DET NORSKE VERITAS

SURVEY REPORT

This is to certify that,

requested by Messrs. ZA.VE.RO , Grignasco (NO) Italy, the undersigned surveyor did attend their works for the purpose to certify the following :

**Prototype 3" Floating Ball Valve Class ANSI 150# RJ, Full Bore, Valve stem Ø 20mm
SN 100427004**

Manufacturer : ZA.VE.RO
Manufacturing JOB No. : 022

Purchaser : NORFLO
Order No. : 2328

Reference Standard and other project documents:

ISO/DIS 15848-part1 and 2 of Edition 15-01-2006 , Measurement, Test and qualification procedures for Fugitive Emissions.
ASME B16.34 Edition 2009
API 6D for construction of the valve
Fugitive Emissions Test Procedure no. IST 7.5.1-09-07 (3-150) Rev.02 dated 1.06.2010 issued by ZA.VE.RO.
Drawing code 175-2P-L-T-0150 Rev.2 (Stem gasket, RPTFE)

Based on aforementioned ref. documents the Fugitive Emission qualification Test has been carried out and found to meet the acceptance criteria therein required .

The test was performed by an indipended Body LQS and qualified personnel acc. to EN 473 ,III level

The performance of the valve consisting mainly to verify its reliability on primary stem and body seal and to give positive results at different temperatures (from -46°C to 200°C) . The control of the leaks at each step was done by means of an Mass Spectrometer Helium Leak Detector Id no. PT-L02-000 complete with Sniffer and calibrated permeation leak SN 401080150.

Visual Inspection

On completion of the test ,the valve was disassembled and the sealing components were visually checked with satisfactory results as no notable wear was observed and no other significant defects noted.

At the End of the qualification test the Test Report No.LT-R-034/10 dated 18th October issued by LQS was reviewed and endorsed by the attendee parties .

Conclusion

The valve successfully passed the qualification test so to achieve the following :

- > Tightness class :BH (Table C.2)
- > Endurance class: CO-1
- > Temperature class: -196°C to +200°C

Grignasco, Italy 2010-10- 19.

Surveyor to Det Norske Veritas
S.Grieco

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DET NORSKE VERITAS

SURVEY REPORT

This is to certify that,

requested by Messrs. ZA.VE.RO , Grignasco (NO) Italy, the undersigned surveyor did attend their works for the purpose to certify the following :

**Prototype 3" Floating Ball Valve Class ANSI 2500# RJ, Full Bore, Valve stem Ø 38mm
SN 100427003**

Manufacturer : ZA.VE.RO
Manufacturing JOB No. : 022

Purchaser : NORFLO
Order No. : 2328

Reference Standard and other project documents:

ISO/DIS 15848- part 1 and 2 of Edition 15-01-2006 , Measurement, Test and qualification procedures for Fugitive Emissions.
ASME B16.34 Edition 2009
API 6D for construction of the valve
Fugitive Emissions Test Procedure no. IST 7.5.1-09-06 (3-2500) Rev.2 dated 1.06.2010 issued by ZA.VE.RO.
Drawing code 085-TA-BS-T-2500-GAR Rev.2 (Stem gasket, RPTFE)

Based on aforementioned ref. documents the Fugitive Emission qualification Test has been carried out and found to meet the acceptance criteria therein required .

The test was performed by an indipended Body LQS and qualified personnel acc. to EN 473 ,III level

The performance of the valve consisting mainly to verify its reliability on primary stem and body seal and to give positive results at different temperatures (from -46°C to +200°C) . The control of the leaks at each step was done by means of an Mass Spectrometer Helium Leak Detector Id no. PT-L02-000 complete with Sniffer and calibrated permeation leak SN 401080150.

Visual Inspection

On completion of the test ,the valve was disassembled and the sealing components were visually checked with satisfactory results as no notable wear was observed and no other significant defects noted.

At the End of the qualification test the Test Report No.LT-R-050/10 dated 22nd October issued by LQS was reviewed and endorsed by the attendee parties .

Conclusion

The valve successfully passed the qualification test so to achieve the following :

- > Tightness class :BH (Table C.2)
- > Endurance class: CO-1
- > Temperature class: -46°C to +200°C

Grignasco, Italy 2010-10- 25.

Surveyor to Det Norske Veritas
S.Grieco

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