

Applicant / Manufacturer : BMT Co., Ltd.
(Bukjeong-dong), 35, Sanmakgongdannam 11-gil, Yangsan-si,
Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed valve**
- 2", Class 600, ASTM A105, Full Bore, Trunnion Type, PEEK Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-07 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 600 through Class 900 rating with 2" and below through 4" size for the Ferritic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-01 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR171J-01 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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CYK/jhs

SGS Korea Co., Ltd.

Michael Kang
Business Manager, Industrial Division



Applicant / Manufacturer : BMT Co., Ltd.
(Bukjeong-dong), 35, Sanmakgongdannam 11-gil, Yangsan-si,
Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed Valve**
- 2", Class 600, ASTM A182 F304, Full Bore, Trunnion Type, Metal Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-09 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 600 through Class 900 rating with 2" and below through 4" size for the Austenitic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-02 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR171J-02 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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Applicant / Manufacturer : BMT Co., Ltd.
(Bukjeong-dong), 35, Sanmakgongdannam 11-gil, Yangsan-si,
Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed Valve**
- 2", Class 600, ASTM A105, Full Bore, Trunnion Type, Metal Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-08 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 600 through Class 900 rating with 2" and below through 4" size for the Ferritic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-03 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR171P-01 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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(Bukjeong-dong), 35, Sanmakgongdannam 11-gil, Yangsan-si,
Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed Valve**
- 2", Class 1500, ASTM A182 F304, Full Bore, Trunnion Type, PEEK Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-11 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 1500 through Class 2500 rating with 2" and below through 4" size for the Austenitic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-04 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR171P-02 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed Valve**
- 2", Class 1500, ASTM A105, Full Bore, Trunnion Type, PEEK Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-10 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 1500 through Class 2500 rating with 2" and below through 4" size for the Ferritic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-05 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR1722-01 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed Valve**
- 2", Class 1500, ASTM A105, Full Bore, Trunnion Type, Metal Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-12 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 1500 through Class 2500 rating with 2" and below through 4" size for the Ferritic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-06 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR1722-02 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed Valve**
- 2", Class 1500, ASTM A182 F304, Full Bore, Trunnion Type, Metal Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-13 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 1500 through Class 2500 rating with 2" and below through 4" size for the Austenitic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-07 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR1728-01 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed Valve**
- 2", Class 150, ASTM A182 F304, Full Bore, Floating Type, RTFE Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-02 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 150 through Class 300 rating with 2" and below through 4" size for the Austenitic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-08 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR1728-02 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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Applicant / Manufacturer : BMT Co., Ltd.
(Bukjeong-dong), 35, Sanmakgongdannam 11-gil, Yangsan-si,
Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed Valve**
- 2", Class 600, ASTM A105, Full Bore, Floating Type, Metal Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-05 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 600 through Class 900 rating with 2" and below through 4" size for the Ferritic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-09 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR172F-01 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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(Bukjeong-dong), 35, Sanmakgongdannam 11-gil, Yangsan-si,
Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed Valve**
- 2", Class 600, ASTM A182 F304, Full Bore, Floating Type, Metal Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-06 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 600 through Class 900 rating with 2" and below through 4" size for the Austenitic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-10 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR172H -01 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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(Bukjeong-dong), 35, Sanmakgongdannam 11-gil, Yangsan-si,
Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed Valve**
- 2", Class 150, ASTM A182 F304, Full Bore, Floating Type, Metal Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-04 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 150 through Class 300 rating with 2" and below through 4" size for the Austenitic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-11 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR172H -02 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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(Bukjeong-dong), 35, Sanmakgongdannam 11-gil, Yangsan-si,
Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Double Block and Bleed Valve**
- 2", Class 150, ASTM A105, Full Bore, Floating Type, Metal Seat

Design standard : ASME B16.34

Applicable drawing : 170222-01-123-03 Rev.A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 150 through Class 300 rating with 2" and below through 4" size for the Ferritic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-12 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR172N -01 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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Gyeongsangnam-do, Korea

Date and place of test : March 05, 2020 at the manufacturer's premises in Yangsan, Korea

Kind of test : Fire Test

Test valve : **Integral Block and Bleed Valve**
- 1", Class 1500, ASTM A182 F316, Full Bore, Floating Type, PEEK Seat

Design standard : ASME B16.34

Applicable drawing : 170911-01-124 Rev. A

Test standard : API STANDARD 607 – 7TH Edition, June, 2016

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This is to conform that the fire test was performed by the manufacturer under witness, and the result was satisfied with the requirements in API 607, so we hereby confirm that the coverage of the **qualification ranges Class 1500 through Class 2500 rating with 2" and below size for the Austenitic Material.**

Note

This certificate has been renewed based on Report B-50/2016-0023/009-13 of March 07, 2017. The details of the test condition and data are as per **Manufacturer's Test Report No. BMT-TR178Y-01 Rev.0**, which were verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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SGS Korea Co., Ltd.


Michael Kang
Business Manager, Industrial Division