

FUGITIVE EMISSION TEST CERTIFICATE

Date : July 27, 2016

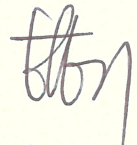
Applicant / Manufacturer	: ICL CO., LTD.
Address of manufacturer	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Address of test location	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Date(s) of test	: July 13, 2016 ~ July 14, 2016
Kind of test	: Fugitive Emission Test According to API624
Description of Test valve	: Cast Steel Gate Valve 150# 4" BB RF OS&Y H/O
Valve component material & Type	
- Body	: ASTM A216-WCB
- Bonnet	: ASTM A216-WCB
- Stem	: ASTM A479-410
- Stem type	: Rising Type
- Packing type	: Graphite (Pillar #6617+6710)
- Packing size	: Ø38.4 x Ø25.4 (6EA)
- Connection of body and bonnet	: Bolted Bonnet
Design Standard	: API600
Applicable drawing	: ICL-API624-01
Test standard	: API Standard 624 First Edition, Feb., 2014
Test conditions	
- Test Medium	: Methane
- Test Pressure	: 11.7 Bar
- Test Temperature	: Ambient Temperature / Elevated Temperature(260°C)
- Number of Mechanical Cycle	: 310 Cycles
- Number of Thermal Cycles	: 3
- Packing Adjustment during the testing	: None
Extension of Qualification	: As per Para 1.0 of API 624

This is to certify that the Fugitive Emission Test was performed by the manufacturer under our witness as above, and the results were satisfied within acceptance criteria of leakage through the test not exceed 100 ppmv.

Note: The details of the test condition and data are as per manufacturer's Test Report No. API624-ICL2016-001 which were verified and endorsed by us.

Intertek Korea Industry Service Ltd.

H.K.Jeong/ General Manager



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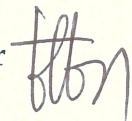
Applicant / Manufacturer	: ICL CO., LTD.
Address of manufacturer	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Address of test location	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Date(s) of test	: July 14, 2016 ~ July 15, 2016
Kind of test	: Fugitive Emission Test According to API624
Description of Test valve	: Cast Steel Gate Valve 600# 4" BB RF OS&Y H/O
Valve component material & Type	
- Body	: ASTM A216-WCB
- Bonnet	: ASTM A216-WCB
- Stem	: ASTM A479-410
- Stem type	: Rising Type
- Packing type	: Graphite (Pillar #6617+6710)
- Packing size	: Ø44.6 x Ø28.6 (6EA)
- Connection of body and bonnet	: Bolted Bonnet
Design Standard	: API600
Applicable drawing	: ICL-API624-04
Test standard	: API Standard 624 First Edition, Feb., 2014
Test conditions	
- Test Medium	: Methane
- Test Pressure	: 41.4 Bar
- Test Temperature	: Ambient Temperature / Elevated Temperature(260°C)
- Number of Mechanical Cycle	: 310 Cycles
- Number of Thermal Cycles	: 3
- Packing Adjustment during the testing	: None
Extension of Qualification	: As per Para 1.0 of API 624

This is to certify that the Fugitive Emission Test was performed by the manufacturer under our witness as above, and the results were satisfied within acceptance criteria of leakage through the test not exceed 100 ppmv.

Note: The details of the test condition and data are as per manufacturer's Test Report No. API624-ICL2016-002 which were verified and endorsed by us.

Intertek Korea Industry Service Ltd.

H.K.Jeong/ General Manager



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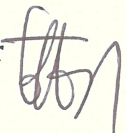
Applicant / Manufacturer	: ICL CO., LTD.
Address of manufacturer	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Address of test location	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Date(s) of test	: July 15, 2016 ~ July 16, 2016
Kind of test	: Fugitive Emission Test According to API624
Description of Test valve	: Cast Steel Gate Valve 1500# 4" BB BW OS&Y H/O
Valve component material & Type	
- Body	: ASTM A216-WCB
- Bonnet	: ASTM A216-WCB
- Stem	: ASTM A479-410
- Stem type	: Rising Type
- Packing type	: Graphite (Pillar #6617+6710)
- Packing size	: Ø50.9 x Ø34.9 (10EA)
- Connection of body and bonnet	: Bolted Bonnet
Design Standard	: API600
Applicable drawing	: ICL-API624-06
Test standard	: API Standard 624 First Edition, Feb., 2014
Test conditions	
- Test Medium	: Methane
- Test Pressure	: 41.4 Bar
- Test Temperature	: Ambient Temperature / Elevated Temperature(260°C)
- Number of Mechanical Cycle	: 310 Cycles
- Number of Thermal Cycles	: 3
- Packing Adjustment during the testing	: None
Extension of Qualification	: As per Para 1.0 of API 624

This is to certify that the Fugitive Emission Test was performed by the manufacturer under our witness as above, and the results were satisfied within acceptance criteria of leakage through the test not exceed 100 ppmv.

Note: The details of the test condition and data are as per manufacturer's Test Report No. API624-ICL2016-003 which were verified and endorsed by us.

Intertek Korea Industry Service Ltd.

H.K.Jeong/ General Manager



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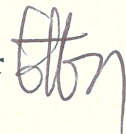
Applicant / Manufacturer	: ICL CO., LTD.
Address of manufacturer	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Address of test location	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Date(s) of test	: July 16, 2016 ~ July 17, 2016
Kind of test	: Fugitive Emission Test According to API624
Description of Test valve	: Cast Steel Gate Valve 150# 12" BB RF OS&Y G/O
Valve component material & Type	
- Body	: ASTM A216-WCB
- Bonnet	: ASTM A216-WCB
- Stem	: ASTM A479-410
- Stem type	: Rising Type
- Packing type	: Graphite (Pillar #6617+6710)
- Packing size	: Ø57.1 x Ø38.1 (6EA)
- Connection of body and bonnet	: Bolted Bonnet
Design Standard	: API600
Applicable drawing	: ICL-API624-02
Test standard	: API Standard 624 First Edition, Feb., 2014
Test conditions	
- Test Medium	: Methane
- Test Pressure	: 11.7 Bar
- Test Temperature	: Ambient Temperature / Elevated Temperature(260°C)
- Number of Mechanical Cycle	: 310 Cycles
- Number of Thermal Cycles	: 3
- Packing Adjustment during the testing	: None
Extension of Qualification	: As per Para 1.0 of API 624

This is to certify that the Fugitive Emission Test was performed by the manufacturer under our witness as above, and the results were satisfied within acceptance criteria of leakage through the test not exceed 100 ppmv.

Note: The details of the test condition and data are as per manufacturer's Test Report No. API624-ICL2016-004 which were verified and endorsed by us.

Intertek Korea Industry Service Ltd.

H.K.Jeong/ General Manager



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FUGITIVE EMISSION TEST CERTIFICATE

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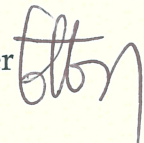
Applicant / Manufacturer	: ICL CO., LTD.
Address of manufacturer	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Address of test location	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Date(s) of test	: July 17, 2016 ~ July 18, 2016
Kind of test	: Fugitive Emission Test According to API624
Description of Test valve	: Cast Steel Gate Valve 600# 12" BB RF OS&Y G/O
Valve component material & Type	
- Body	: ASTM A216-WCB
- Bonnet	: ASTM A216-WCB
- Stem	: ASTM A479-410
- Stem type	: Rising Type
- Packing type	: Graphite (Pillar #6617+6710)
- Packing size	: Ø78.0 x Ø52.0 (6EA)
- Connection of body and bonnet	: Bolted Bonnet
Design Standard	: API600
Applicable drawing	: ICL-API624-05
Test standard	: API Standard 624 First Edition, Feb., 2014
Test conditions	
- Test Medium	: Methane
- Test Pressure	: 41.4 Bar
- Test Temperature	: Ambient Temperature / Elevated Temperature(260°C)
- Number of Mechanical Cycle	: 310 Cycles
- Number of Thermal Cycles	: 3
- Packing Adjustment during the testing	: None
Extension of Qualification	: As per Para 1.0 of API 624

This is to certify that the Fugitive Emission Test was performed by the manufacturer under our witness as above, and the results were satisfied within acceptance criteria of leakage through the test not exceed 100 ppmv.

Note: The details of the test condition and data are as per manufacturer's Test Report No. API624-ICL2016-005 which were verified and endorsed by us.

Intertek Korea Industry Service Ltd.

H.K.Jeong/ General Manager



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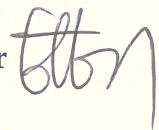
Applicant / Manufacturer	: ICL CO., LTD.
Address of manufacturer	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Address of test location	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Date(s) of test	: July 18, 2016 ~ July 20, 2016
Kind of test	: Fugitive Emission Test According to API624
Description of Test valve	: Cast Steel Gate Valve 600# 20" BB RF OS&Y G/O
Valve component material & Type	
- Body	: ASTM A216-WCB
- Bonnet	: ASTM A216-WCB
- Stem	: ASTM A479-410
- Stem type	: Rising Type
- Packing type	: Graphite (Pillar #6617+6710)
- Packing size	: Ø96.0 x Ø70.0 (6EA)
- Connection of body and bonnet	: Bolted Bonnet
Design Standard	: API600
Applicable drawing	: ICL-API624-05
Test standard	: API Standard 624 First Edition, Feb., 2014
Test conditions	
- Test Medium	: Methane
- Test Pressure	: 41.4 Bar
- Test Temperature	: Ambient Temperature / Elevated Temperature(260°C)
- Number of Mechanical Cycle	: 310 Cycles
- Number of Thermal Cycles	: 3
- Packing Adjustment during the testing	: None
Extension of Qualification	: As per Para 1.0 of API 624

This is to certify that the Fugitive Emission Test was performed by the manufacturer under our witness as above, and the results were satisfied within acceptance criteria of leakage through the test not exceed 100 ppmv.

Note: The details of the test condition and data are as per manufacturer's Test Report No. API624-ICL2016-006 which were verified and endorsed by us.

Intertek Korea Industry Service Ltd.

H.K.Jeong/ General Manager



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Date : July 27, 2016

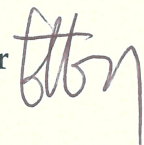
Applicant / Manufacturer	: ICL CO., LTD.
Address of manufacturer	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Address of test location	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Date(s) of test	: July 20, 2016 ~ July 22, 2016
Kind of test	: Fugitive Emission Test According to API624
Description of Test valve	: Cast Steel Gate Valve 150# 20" BB RF OS&Y G/O
Valve component material & Type	
- Body	: ASTM A216-WCB
- Bonnet	: ASTM A216-WCB
- Stem	: ASTM A479-410
- Stem type	: Rising Type
- Packing type	: Graphite (Pillar #6617+6710)
- Packing size	: Ø78.0 x Ø52.0 (6EA)
- Connection of body and bonnet	: Bolted Bonnet
Design Standard	: API600
Applicable drawing	: ICL-API624-03
Test standard	: API Standard 624 First Edition, Feb., 2014
Test conditions	
- Test Medium	: Methane
- Test Pressure	: 11.7 Bar
- Test Temperature	: Ambient Temperature / Elevated Temperature(260°C)
- Number of Mechanical Cycle	: 310 Cycles
- Number of Thermal Cycles	: 3
- Packing Adjustment during the testing	: None
Extension of Qualification	: As per Para 1.0 of API 624

This is to certify that the Fugitive Emission Test was performed by the manufacturer under our witness as above, and the results were satisfied within acceptance criteria of leakage through the test not exceed 100 ppmv.

Note: The details of the test condition and data are as per manufacturer's Test Report No. API624-ICL2016-007 which were verified and endorsed by us.

Intertek Korea Industry Service Ltd.

H.K.Jeong/ General Manager



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Date : July 27, 2016

Applicant / Manufacturer	: ICL CO., LTD.
Address of manufacturer	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Address of test location	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Date(s) of test	: July 22, 2016 ~ July 23, 2016
Kind of test	: Fugitive Emission Test According to API624
Description of Test valve	: Cast Steel Gate Valve 1500# 12" BB RF OS&Y G/O
Valve component material & Type	
- Body	: ASTM A216-WCB
- Bonnet	: ASTM A216-WCB
- Stem	: ASTM A479-410
- Stem type	: Rising Type
- Packing type	: Graphite (Pillar #6617+6710)
- Packing size	: Ø96.0 x Ø70.0 (8EA)
- Connection of body and bonnet	: Bolted Bonnet
Design Standard	: API600
Applicable drawing	: ICL-API624-07
Test standard	: API Standard 624 First Edition, Feb., 2014
Test conditions	
- Test Medium	: Methane
- Test Pressure	: 41.4 Bar
- Test Temperature	: Ambient Temperature / Elevated Temperature(260°C)
- Number of Mechanical Cycle	: 310 Cycles
- Number of Thermal Cycles	: 3
- Packing Adjustment during the testing	: None
Extension of Qualification	: As per Para 1.0 of API 624

This is to certify that the Fugitive Emission Test was performed by the manufacturer under our witness as above, and the results were satisfied within acceptance criteria of leakage through the test not exceed 100 ppmv.

Note: The details of the test condition and data are as per manufacturer's Test Report No. API624-ICL2016-008 which were verified and endorsed by us.

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H.K.Jeong/ General Manager



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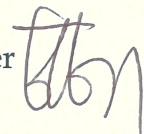
Applicant / Manufacturer	: ICL CO., LTD.
Address of manufacturer	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Address of test location	: #55, Gomo-ro 364beon-gil, Jillye-myeon, Gimhae-si, Korea
Date(s) of test	: July 24, 2016 ~ July 25, 2016
Kind of test	: Fugitive Emission Test According to API624
Description of Test valve	: Cast Steel Globe Valve 150# 12" BB RF OS&Y G/O
Valve component material & Type	
- Body	: ASTM A216-WCB
- Bonnet	: ASTM A216-WCB
- Stem	: ASTM A479-410
- Stem type	: Rising Type
- Packing type	: Graphite (Pillar #6617+6710)
- Packing size	: Ø67.0 x Ø48.0 (6EA)
- Connection of body and bonnet	: Bolted Bonnet
Design Standard	: API623
Applicable drawing	: ICL-API624-08
Test standard	: API Standard 624 First Edition, Feb., 2014
Test conditions	
- Test Medium	: Methane
- Test Pressure	: 11.7 Bar
- Test Temperature	: Ambient Temperature / Elevated Temperature(260°C)
- Number of Mechanical Cycle	: 310 Cycles
- Number of Thermal Cycles	: 3
- Packing Adjustment during the testing	: None
Extension of Qualification	: As per Para 1.0 of API 624

This is to certify that the Fugitive Emission Test was performed by the manufacturer under our witness as above, and the results were satisfied within acceptance criteria of leakage through the test not exceed 100 ppmv.

Note: The details of the test condition and data are as per manufacturer's Test Report No. API624-ICL2016-009 which were verified and endorsed by us.

Intertek Korea Industry Service Ltd.

H.K.Jeong/ General Manager



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