



THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL001 Ref. Test Report No.: FTC20120721-ICLVALVE-01

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1201-2PFB-RF-001
Valve Drawing No.	BA102FAS
Type of Test Valve	FLOATING BALL VALVE
Description of Test Valve	2-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	150#
Valve Body Material	ASTM A105
Valve Seat Material	PTFE
Date of Test	July 21, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#150, #300
Qualified Valve Material	Ferritic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ACRE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL002 Ref. Test Report No.: FTC20120721-ICLVALVE-02

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1201-2PFB-RF-002
Valve Drawing No.	BA102FAS
Type of Test Valve	FLOATING BALL VALVE
Description of Test Valve	2-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	150#
Valve Body Material	ASTM A182-F304
Valve Seat Material	PTFE
Date of Test	July 21, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#150, #300
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ACRE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Ki





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL003 Ref. Test Report No.: FTC20120721-ICLVALVE-03

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1201-2PFB-RF-003
Valve Drawing No.	BA102FAS
Type of Test Valve	FLOATING BALL VALVE
Description of Test Valve	2-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	150#
Valve Body Material	ASTM A182-F53
Valve Seat Material	PTFE
Date of Test	July 21, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#150, #300
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ATOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL004 Ref. Test Report No.: FTC20120721-ICLVALVE-04

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

escription of rest valve i		
Valve Model No.	ICL-B1201-2PFB-RF-004	
Valve Drawing No.	BA104FAS	
Type of Test Valve	FLOATING BALL VALVE	
Description of Test Valve	2-P, FULL BORE, RF	
Valve Size (NPS)	NPS 4	
Pressure Rating (ANSI Class)	150#	
Valve Body Material	ASTM A105	
Valve Seat Material	PTFE	
Date of Test	July 21, 2012	

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#150, #300
Qualified Valve Material	Ferritic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL005 Ref. Test Report No.: FTC20120721-ICLVALVE-05

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

escription of rest valve.		
Valve Model No.	ICL-B1201-2PFB-RF-005	
Valve Drawing No.	BA104FAS	
Type of Test Valve	FLOATING BALL VALVE	
Description of Test Valve	2-P, FULL BORE, RF	
Valve Size (NPS)	NPS 4	
Pressure Rating (ANSI Class)	150#	
Valve Body Material	ASTM A182-F304	
Valve Seat Material	PTFE	
Date of Test	July 21, 2012	

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#150, #300
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI 40PE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL006 Ref. Test Report No.: FTC20120722-ICLVALVE-01

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

escription of rest valve i		
Valve Model No.	ICL-B1202-2PFB-RF-001	
Valve Drawing No.	BA104FAS	
Type of Test Valve	FLOATING BALL VALVE	
Description of Test Valve	2-P, FULL BORE, RF	
Valve Size (NPS)	NPS 4	
Pressure Rating (ANSI Class)	150#	
Valve Body Material	ASTM A182-F53	
Valve Seat Material	PTFE	
Date of Test	July 22, 2012	

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#150, #300
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ACRE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL007 Ref. Test Report No.: FTC20120722-ICLVALVE-02

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1202-3PFB-RF-002
Valve Drawing No.	BA108FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	150#
Valve Body Material	ASTM A105
Valve Seat Material	PTFE
Date of Test	July 22, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#150, #300
Qualified Valve Material	Ferritic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AORE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No. : FTC-ICL-20120831-BALL008 Ref. Test Report No.: FTC20120722-ICLVALVE-03

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1202-3PFB-RF-003
Valve Drawing No.	BA108FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	150#
Valve Body Material	ASTM A183-F304
Valve Seat Material	PTFE
Date of Test	July 22, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#150, #300
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI 40P

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No. : FTC-ICL-20120831-BALL009 Ref. Test Report No.: FTC20120722-ICLVALVE-04

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1202-3PFB-RF-004
Valve Drawing No.	BA108FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	150#
Valve Body Material	ASTM A183-F53
Valve Seat Material	PTFE
Date of Test	July 22, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#150, #300
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

WOSI ACO

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Ki





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL010 Ref. Test Report No.: FTC20120722-ICLVALVE-05

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1202-3PFB-RF-005
Valve Drawing No.	BA302FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A105
Valve Seat Material	PTFE
Date of Test	July 22, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Ferritic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI 40P

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Ki





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL011 Ref. Test Report No.: FTC20120723-ICLVALVE-01

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

ICL-B1203-3PFB-RF-001
BA302FAS
TRUNNION BALL VALVE
3-P, FULL BORE, RF
NPS 2
600#
ASTM A105
NYLON
July 23, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Ferritic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AGORETA

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL012 Ref. Test Report No.: FTC20120723-ICLVALVE-02

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1203-3PFB-RF-002
Valve Drawing No.	BA302FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A182-F304
Valve Seat Material	PTFE
Date of Test	July 23, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AORE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL013 Ref. Test Report No.: FTC20120723-ICLVALVE-03

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1203-3PFB-RF-003
Valve Drawing No.	BA302FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A182-F304
Valve Seat Material	NYLON
Date of Test	July 23, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AORE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL014 Ref. Test Report No.: FTC20120723-ICLVALVE-04

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1203-3PFB-RF-004
Valve Drawing No.	BA302FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A182-F53
Valve Seat Material	PTFE
Date of Test	July 23, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ATOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL015 Ref. Test Report No.: FTC20120723-ICLVALVE-05

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1203-3PFB-RF-005
Valve Drawing No.	BA302FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A182-F53
Valve Seat Material	NYLON
Date of Test	July 23, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL016 Ref. Test Report No.: FTC20120724-ICLVALVE-01

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

ICL-B1204-3PFB-RF-001
BA304FAS
TRUNNION BALL VALVE
3-P, FULL BORE, RF
NPS 4
600#
ASTM A105
PTFE
July 24, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Ferritic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AORE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL017 Ref. Test Report No.: FTC20120724-ICLVALVE-02

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1204-3PFB-RF-002
Valve Drawing No.	BA304FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 4
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A105
Valve Seat Material	NYLON
Date of Test	July 24, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Ferritic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AGORETA

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL018 Ref. Test Report No.: FTC20120724-ICLVALVE-03

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

ICL-B1204-3PFB-RF-003
BA304FAS
TRUNNION BALL VALVE
3-P, FULL BORE, RF
NPS 4
600#
ASTM A182-F304
PTFE
July 24, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ATOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No. : FTC-ICL-20120831-BALL019 Ref. Test Report No.: FTC20120724-ICLVALVE-04

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1204-3PFB-RF-004
Valve Drawing No.	BA304FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 4
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A182-F304
Valve Seat Material	NYLON
Date of Test	July 24, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI 40P

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL020 Ref. Test Report No.: FTC20120724-ICLVALVE-05

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1204-3PFB-RF-005
Valve Drawing No.	BA304FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 4
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A182-F53
Valve Seat Material	PTFE
Date of Test	July 24, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ATOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL021 Ref. Test Report No.: FTC20120725-ICLVALVE-01

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1205-3PFB-RF-001
Valve Drawing No.	BA304FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 4
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A182-F53
Valve Seat Material	NYLON
Date of Test	July 25, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zi





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No. : FTC-ICL-20120831-BALL022 Ref. Test Report No.: FTC20120725-ICLVALVE-02

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1205-3PFB-RF-002
Valve Drawing No.	BA308FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A105
Valve Seat Material	PTFE
Date of Test	July 25, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Ferritic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AGORETA

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL023 Ref. Test Report No.: FTC20120725-ICLVALVE-03

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1205-3PFB-RF-003
Valve Drawing No.	BA308FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A105
Valve Seat Material	NYLON
Date of Test	July 25, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Ferritic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AGORETA

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No. : FTC-ICL-20120831-BALL024 Ref. Test Report No.: FTC20120725-ICLVALVE-04

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1205-3PFB-RF-004
Valve Drawing No.	BA308FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A182-F304
Valve Seat Material	PTFE
Date of Test	July 25, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI 40P

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Ki





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No. : FTC-ICL-20120831-BALL025 Ref. Test Report No.: FTC20120725-ICLVALVE-05

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1205-3PFB-RF-005
Valve Drawing No.	BA308FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A182-F304
Valve Seat Material	NYLON
Date of Test	July 25, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI 40PE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL026 Ref. Test Report No.: FTC20120726-ICLVALVE-01

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1206-3PFB-RF-001
Valve Drawing No.	BA308FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A182-F53
Valve Seat Material	PTFE
Date of Test	July 26, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL027 Ref. Test Report No.: FTC20120726-ICLVALVE-02

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1206-3PFB-RF-002
Valve Drawing No.	BA308FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	600#
Valve Body Material	ASTM A182-F53
Valve Seat Material	NYLON
Date of Test	July 26, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#600, #800, #900
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ATOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zi





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL028 Ref. Test Report No.: FTC20120726-ICLVALVE-03

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1206-3PFB-RF-003
Valve Drawing No.	BA502FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	1500#
Valve Body Material	ASTM A105
Valve Seat Material	NYLON
Date of Test	July 26, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Ferrictic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI 40P

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No. : FTC-ICL-20120831-BALL029 Ref. Test Report No.: FTC20120726-ICLVALVE-04

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1206-3PFB-RF-004
Valve Drawing No.	BA502FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	1500#
Valve Body Material	ASTM A105
Valve Seat Material	PEEK
Date of Test	July 26, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Ferrictic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL030 Ref. Test Report No.: FTC20120726-ICLVALVE-05

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1206-3PFB-RF-005
Valve Drawing No.	BA502FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	1500#
Valve Body Material	ASTM A182-F304
Valve Seat Material	NYLON
Date of Test	July 26, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zi





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL031 Ref. Test Report No.: FTC20120727-ICLVALVE-01

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

escription of rest valve.		
Valve Model No.	ICL-B1207-3PFB-RF-001	
Valve Drawing No.	BA502FAS	
Type of Test Valve	TRUNNION BALL VALVE	
Description of Test Valve	3-P, FULL BORE, RF	
Valve Size (NPS)	NPS 2	
Pressure Rating (ANSI Class)	1500#	
Valve Body Material	ASTM A182-F304	
Valve Seat Material	РЕЕК	
Date of Test	July 27, 2012	

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AORE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Ki





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL032 Ref. Test Report No.: FTC20120727-ICLVALVE-02

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1207-3PFB-RF-002
Valve Drawing No.	BA502FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 2
Pressure Rating (ANSI Class)	1500#
Valve Body Material	ASTM A182-F53
Valve Seat Material	NYLON
Date of Test	July 27, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

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<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL033 Ref. Test Report No.: FTC20120727-ICLVALVE-03

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

escription of rest valve.		
Valve Model No.	ICL-B1207-3PFB-RF-003	
Valve Drawing No.	BA502FAS	
Type of Test Valve	TRUNNION BALL VALVE	
Description of Test Valve	3-P, FULL BORE, RF	
Valve Size (NPS)	NPS 2	
Pressure Rating (ANSI Class)	1500#	
Valve Body Material	ASTM A182-F53	
Valve Seat Material	PEEK	
Date of Test	July 27, 2012	

2. Qualified Range of Valve:

Qualified Sizes (NPS)	2" and below, 2-1/2", 3", 4"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ACRE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL034 Ref. Test Report No.: FTC20120727-ICLVALVE-04

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1207-3PFB-RF-004
Valve Drawing No.	BA504FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 4
Pressure Rating (ANSI Class)	1500#
Valve Body Material	ASTM A105
Valve Seat Material	NYLON
Date of Test	July 27, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Ferrictic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AGORETA

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zi





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL035 Ref. Test Report No.: FTC20120727-ICLVALVE-05

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

escription of rest valve.		
ICL-B1207-3PFB-RF-005		
BA504FAS		
TRUNNION BALL VALVE		
3-P, FULL BORE, RF		
NPS 4		
1500#		
ASTM A105		
PEEK		
July 27, 2012		

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Ferrictic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ACRE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL036 Ref. Test Report No.: FTC20120728-ICLVALVE-01

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

escription of rest valve.		
Valve Model No.	ICL-B1208-3PFB-RF-001	
Valve Drawing No.	BA504FAS	
Type of Test Valve	TRUNNION BALL VALVE	
Description of Test Valve	3-P, FULL BORE, RF	
Valve Size (NPS)	NPS 4	
Pressure Rating (ANSI Class)	1500#	
Valve Body Material	ASTM A182-F304	
Valve Seat Material	NYLON	
Date of Test	July 28, 2012	

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AORETA

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL037 Ref. Test Report No.: FTC20120728-ICLVALVE-02

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

escription of rest varve.	
Valve Model No.	ICL-B1208-3PFB-RF-002
Valve Drawing No.	BA504FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 4
Pressure Rating (ANSI Class)	1500#
Valve Body Material	ASTM A182-F304
Valve Seat Material	PEEK
Date of Test	July 28, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ATOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL038 Ref. Test Report No.: FTC20120728-ICLVALVE-03

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

escription of rest valve:		
ICL-B1208-3PFB-RF-003		
BA504FAS		
TRUNNION BALL VALVE		
3-P, FULL BORE, RF		
NPS 4		
1500#		
ASTM A182-F53		
NYLON		
July 28, 2012		

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

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<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL039 Ref. Test Report No.: FTC20120728-ICLVALVE-04

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

escription of rest valve:		
Valve Model No.	ICL-B1208-3PFB-RF-004	
Valve Drawing No.	BA504FAS	
Type of Test Valve	TRUNNION BALL VALVE	
Description of Test Valve	3-P, FULL BORE, RF	
Valve Size (NPS)	NPS 4	
Pressure Rating (ANSI Class)	1500#	
Valve Body Material	ASTM A182-F53	
Valve Seat Material	PEEK	
Date of Test	July 28, 2012	

2. Qualified Range of Valve:

Qualified Sizes (NPS)	4", 5", 6", 8"
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AGORETA

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Ki





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL040 Ref. Test Report No.: FTC20120728-ICLVALVE-05

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1208-3PFB-RF-005
Valve Drawing No.	BA508FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	1500#
Valve Body Material	ASTM A105
Valve Seat Material	NYLON
Date of Test	July 28, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Ferrictic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

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<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL041 Ref. Test Report No.: FTC20120729-ICLVALVE-01

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

escription of rest valve:		
ICL-B1209-3PFB-RF-001		
BA508FAS		
TRUNNION BALL VALVE		
3-P, FULL BORE, RF		
NPS 8		
1500#		
ASTM A105		
РЕЕК		
July 29, 2012		

2. Qualified Range of Valve:

	Qualified Sizes (NPS)	8" and larger
	Qualified Pressure Ratings (ANSI Class)	#1500, #2500
-	Qualified Valve Material	Ferrictic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ATOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL042 Ref. Test Report No.: FTC20120729-ICLVALVE-02

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1209-3PFB-RF-002
Valve Drawing No.	BA508FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	1500#
Valve Body Material	ASTM A182-F304
Valve Seat Material	NYLON
Date of Test	July 29, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

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<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Ki





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL043 Ref. Test Report No.: FTC20120729-ICLVALVE-03

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1209-3PFB-RF-003
Valve Drawing No.	BA508FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	1500#
Valve Body Material	ASTM A182-F304
Valve Seat Material	PEEK
Date of Test	July 29, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Austenitic

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AORE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL044 Ref. Test Report No.: FTC20120729-ICLVALVE-04

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

ICL-B1209-3PFB-RF-004
BA508FAS
TRUNNION BALL VALVE
3-P, FULL BORE, RF
NPS 8
1500#
ASTM A182-F53
NYLON
July 29, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI AOR

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Zis





THE WORLDWIDE INSPECTION, EXPEDITING AND PROCUREMENT SPECIALISTS

FIRE TEST CERTIFICATE

Certification No.: FTC-ICL-20120831-BALL045 Ref. Test Report No.: FTC20120729-ICLVALVE-05

This is to certify that the below materials have been inspected by Velosi Korea and found to be satisfactory in the Fire Test in accordance with API 607, sixth edition / EN ISO 10497 : 2010(E).

Manufacturer : ICL CO., LTD.

Head Office & Factory : #55, Gomoro, 364Beon-Gil, Jillye-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

Location of Test : #498, Sinchun-Ri, Hanrim-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea

1. Description of Test Valve:

Valve Model No.	ICL-B1209-3PFB-RF-005
Valve Drawing No.	BA508FAS
Type of Test Valve	TRUNNION BALL VALVE
Description of Test Valve	3-P, FULL BORE, RF
Valve Size (NPS)	NPS 8
Pressure Rating (ANSI Class)	1500#
Valve Body Material	ASTM A182-F53
Valve Seat Material	PEEK
Date of Test	July 29, 2012

2. Qualified Range of Valve:

Qualified Sizes (NPS)	8" and larger
Qualified Pressure Ratings (ANSI Class)	#1500, #2500
Qualified Valve Material	Duplex

This certificate is issued in accordance with API 607, 6th edition / EN ISO 10497 : 2010(E), based on the result of test report on above mentioned test valve. For detailed report of tested valve, see the Appendix 1 Fire Test Report of this certificate. The additional valve qualification shall be limited on the valves according to para.7 requirements.

OSI ACRE

<u>Velosi International - Korea</u> Date: 31st of August 2012 Heelyn Kis