



Low-Fugitive Emission Ball Valves

Features

- **EMICO Low-Emission ball valves meet global emissions standards using enhanced in-house technology**
- **Our Low-Emission portfolio include Floating ball valves in Soft & Metal Seat designs, Cryogenic as well as Trunnion-mounted**
- **Prevention & reduction of unwanted harmful emissions to the environment associated with oil, gas & chemical plant operations**
- **Passes periodic leak-detection for emissions monitoring over valve full life cycle**
- **Increased plant efficiency**



Design

- Floating ball valves pass ISO 15848-1 - the most stringent test level by Yarmouth Research & Technology, USA
- In compliance with Standards API 624, API 641 and API 622
- Specialised Packing and Body gaskets, and proprietary technology including machining of surfaces to achieve optimal performance
- Castings meet RT Level II quality (meets MSS-SP55)



ISO15848-1 CO3

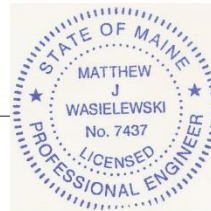
Fugitive Emission Test Certificate ISO 15848-1: 2015

Name of Manufacturer:	Eayuan Metal Industrial Co., Ltd	Test Start Date:	June 4, 2018
Designation of Valve:	EA-256	Report/Certificate Number:	218210A
Size Tested (Inches):	2	Pressure Rating:	ANSI Class 600
Body Material:	CF8M	Stem Material:	SUS316
Stem Seal:	EDP15P Packing Set	Body/Bonnet Seal:	PTFE+25% G.F.
Endurance Class:	CO3 – 2500 cycles	Temperature Class:	200C
Tightness Class:	BH	Number of Packing Adjustments	0
Performance Class: ISO 15848-BH-CO3-SSAO-t(200C)			

This certificate refers to the above mentioned product. This is to certify that the test specimen provided is in conformity with the standard mentioned above. This certificate does not imply assessment of the production of the product. Qualification of similar valves to the tested valve shall be done in accordance with Section 8 of the test specification.

Laboratory Information

Name:	Yarmouth Research and Technology, LLC
Address:	434 Walnut Hill Road North Yarmouth, ME 04097 USA
Tester:	Matthew Wasielewski, PE info@yarmouthresearch.com www.yarmouthresearch.com (207) 829-5359



Ball Valve (Soft seat)

EA-256

- Fluid: Helium
- Endurance: 2,500 cycles
- Temperature: to 200degC
- 4 Thermal cycles



ISO15848-1 CO3

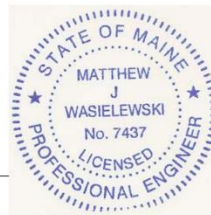
Fugitive Emission Test Certificate ISO 15848-1: 2006

Name of Manufacturer:	Eayuan Metal Industrial Co., Ltd.	Test Start Date:	June 3, 2015
Designation of Valve:	2 inch Class 300 WCB Metal Seated Ball Valve, EA-803	Report/Certificate Number:	215176A
Size Tested (Inches):	2	Pressure Class:	ANSI Class 300
Body Material:	WCB	Stem Material:	17-4 PH
Stem Seal:	Nippon Pillar EDP-15	Body Seal:	316L+GRAPHITE
Endurance Class:	CO3 – 2500 cycles	Temperature Class:	200 C
Tightness Class:	BH	Number of Packing Adjustments	2

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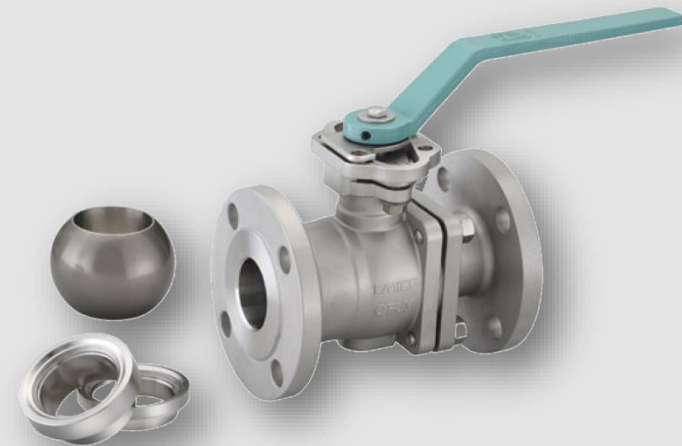
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Ball Valve (Metal seat) EA-803

- Fluid: Helium
- Endurance: 2,500 cycles
- Temperature: to 200degC
- 4 Thermal cycles



ISO15848-1 CO3

Cryogenic Ball Valve 1500WOG

EA-39A

- Fluid: Helium
- Endurance: 2,500 cycles
- Temperature: to -196degC
- 4 Thermal cycles



Fugitive Emission Test Certificate ISO 15848-1: 2015

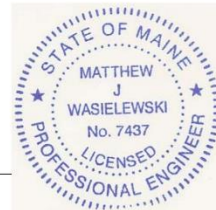
Name of Manufacturer:	Eayuan Metal Industrial Co., Ltd.	Test Start Date:	January 28, 2016
Designation of Valve:	3-PC SW End Ball Valve, EA-39A	Report/Certificate Number:	215420A
Size Tested (Inches):	2	Pressure Class:	1500 WOG
Body Material:	CF8M	Stem Material:	17-4PH
Stem Seal:	Flexible Graphite braided Inconel wire	Body Seal:	Graphite
Endurance Class:	CO3 – 2500 cycles	Temperature Class:	-196C
Tightness Class:	BH	Number of Packing Adjustments	1

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Matthew Wasielewski



ISO15848-1 CO3

Cryogenic Ball Valve Class 150

EA-26J

- Fluid: Helium
- Endurance: 2,500 cycles
- Temperature: to -196degC
- 4 Thermal cycles



Fugitive Emission Test Certificate ISO 15848-1: 2015

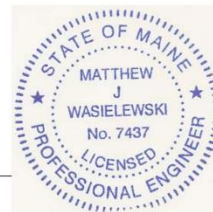
Name of Manufacturer:	Eayuan Metal Industrial Co., Ltd.	Test Start Date:	March 21, 2016
Designation of Valve:	2-PC 300# Flange End Ball Valve, EA-26J	Report/Certificate Number:	215420B
Size Tested (Inches):	2	Pressure Class:	ANSI Class 300
Body Material:	CF8M	Stem Material:	17-4PH
Stem Seal:	Flexible Graphite braided Inconel wire	Body Seal:	SS316+Graphite
Endurance Class:	CO3 – 2500 cycles	Temperature Class:	-196C
Tightness Class:	BH	Number of Packing Adjustments	0

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Matthew Wasielewski



ISO15848-1 CO1

ISO 15848-1 QUALIFICATION CERTIFICATE

Applus⁺ RTD

Certificate number: 097407/001-Q001
Datum: September 2013
Item: Trunnion Ball Valve
Size: 4 Inch
Class: 900 Lbs
Body material: A105 N
Seat material: Devlon
Stem seal material: 304+ PTFE
Manufactured by: Emico
Fig number: EA-909
Markings on valve: On Flange
In accordance with drawing no: 9900-40+DA160
In accordance with order no: PO, Date 9th Aug.2013/8/9
ApplusRTD Report no: 097407/001-R001A

This certificate must be read in conjunction with the full ApplusRTD Meettechniek test report. The details are mentioned in the list above. The valve was tested by ApplusRTD Meettechniek at their valve testing facility in Kapelle, the Netherlands. The result has been recorded as APPROVED, according to the minimum performance requirements stated in specification:

NEN-EN-ISO 15848-1, February 2006; Tightness Class B (H).

Class Designation	
Tightness class:	Class B (H)
Endurance class:	Isolating valve CO1
Temperature class:	Higher limit: 200 °C
SSA:	0 (Stem Seal Adjustments)

Extension to other valves*	
Stem diameter:	Lower limit: ≥50% than tested Higher limit: ≤200% than tested
Pressure range:	Class or PN designation is equal or lower than tested

Applus⁺ RTD
ND Testing
F.L. Gillissen
Name:
Mr. F.L. Gillissen
Date:
2013 September 27th

Reviewed by:
Applus⁺ RTD
LT3 V73
A. de Jonge
Name:
Mr. A. de Jonge
Date:
2013 September 27th

Applus RTD Meettechniek
Vellingweg 4
NL-4421 SM Kapelle
Tel. +31(0)113 340881
Fax +31(0)113 344100
VCA-P 2008/05, certificate no. RQA664256

EMICO

Trunnion Ball Valve Class 900

EA-909

- Fluid: Helium
- Endurance: 500 cycles
- Temperature: to 200degC
- 4 Thermal cycles





**EMICO's low-fugitive emission valves –
leading the way for a greener future.**