

FUGITIVE EMISSION TEST CERTIFICATE

Date : 8th, Jun, 2015

Client	: Samwoo KJS Tec Co., Ltd.
Date and place of test	: May 20 ~ May 27 2015 at the manufacturer's premises, Korea
Kind of test	: Witness of Fugitive Emission Test
Test valve	: <u>Cast Steel Gate Valve ASTM A216-WCB 900LB, 6inch (DN 150)</u>
Applicable drawing	: 15-0127-01 Rev.1 dated 27 th , May, 2015
Test Standard	: ISO 15848 Part1, 2006 Edition
Test Condition	:
- Test Medium	: Helium
- Test Pressure	: 156kgf/cm ² at Room Temp. & 106kgf/cm ² at 400°C
- Tightness Class	: BH (ISO 15848 Part 1 Table 1.2)
- Endurance Class	: 500 Cycles / CO1 (ISO 15848 Part 1 Figure 3)
- Temperature Class	: 400 °C
Performance Class	: ISO FE BH – CO1 – SSA0 – t400°C – CL900 – ISO 15848-1

**

**

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.

Note

The details of the test condition and data are as per manufacturer's Test Report No. KJS-FE-2015-01 which were verified and endorsed by us.

**

**

**

“ 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.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."

Applus Velosi OMS

M. Kern

Min Jae Kim

Representative Director

DY // SI