

CERTIFICATE OF FUGITIVE EMISSION TEST



(Attestation)

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TÜV SÜD Korea Ltd. 29F, Two IFC, 10 Gukjegeumyung-ro, Yeongdeungpo-gu, Seoul, 07326, Korea

TÜV SÜD Korea Ltd. 29F, Two IFC, 10 Gukjegeumyung-ro, Yeongdeungpo-gu, Seoul, 07326, Korea

Certificate No. : TSK-IS-74958925-004

■ **Manufacturer Name / Address:** SAMWOO KJS TEC CO., LTD.

/ 328, Ungnam-ro, Seongsan-Gu, Changwon-Si, Gyeongsangnam-Do, Korea

Date of Test : 06~10-May-2021

Kind of Test : Witness of Fugitive Emission Test

Test Valve : 10"-150# RF 1pc, ASTM A216 WCB, Gate Valve

Valve Type	Class	Size	Stem		Quantity	Body Seals	Packing Seals	Design Standard
			Type	Diameter (mm)				
Gate	150	10 inch (DN250)	Raising	35	1	Pillar 2601-EEO (Graphite)	Pillar 6710+6617 (Graphite)	API 600

Test Standard : ISO 15848-1 : Second Edition, June. 2015

Applicable drawing : XD0023456-01 Rev. 0

Test Condition :

Test Fluid	Tightness Class	Ambient (Bar)	400°C (Bar)	Cycle	Number of thermal Cycles	Stem Seal Adjustment
Helium	A(HS)	19.6	6.5	205	2	SSA1

Performance class: ISO FE AH-CO1-SSA1-t(RT, 400°C)-CL150-ISO 15848-1

Extension of Qualification: As per Para.8 of ISO 15848-1

Conclusion

The undersigned, Inspector to TÜV SÜD, certifies that the above type meets the applicable requirements.

The details of the test condition and data are as per manufacturer's Test Report No. KSJ-FE-2021-01 which were verified and endorsed by TÜV SÜD Korea.

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

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This certificate is issued further to a test whose duration and scope were limited by the terms and conditions of the contract with TÜV SÜD Korea Ltd.. This certificate is NOT an indication that the item(s) is (are) fit for any specific purpose and does not release the manufacturer, supplier and any party from their respective duty. Guarantee, obligation and/or indemnity relating to, without limitation, patents, workmanship, materials, safety, performance in operation and/or reliability.

TÜV SÜD Korea Ltd.



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