



TEST REPORT

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 <p>Dong-A University Technical Center for High-Performance Valves</p> <p>SM226, 37 Nakdong-Daero 550beon-gil, Saha-gu, Busan-city, Korea (Tel: +82 51-200-6546 Fax: +82 51 200-6598)</p>	<p>Report No. : TCHPV-19-301</p> <p>Page 1 / 8</p>	 <p>고려대학교 기술지원센터 Technical Center for High-Performance Valves</p>
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1. Client

- Name : KUKIL INNTOT CO.,LTD.
- Address : 17, Tapgeol-gil, Ungchon-myeon, Ulju-gun, Ulsan, 44965, Korea
- Receipt No. : 19-07-018

2. Use of Report : For Quality Control

3. Test Specimen : VOC-HP21 (Specimen No. : TCHPV-TS-19-350)

4. Date of Test : 2019. 11. 18. ~ 2019. 11. 25.

5. Test Standard : API 622 Third Edition, July 2018 : Type Testing of Process Valve Packing for Fugitive Emissions

6. Test Locations : Laboratory of Technical Center for High Performance Valves (Room No. : SM118, S14, DONG-A Univ.)

7. Test Result :

Mechanical Cycles Completed (Cycle)	Thermal Cycles Completed (Cycle)	Average Test Pressure (MPa)	Maximum Allowable Leakage (mg/L)	Average Leakage (mg/L)	Maximum Leakage (mg/L)
1510	5	4.20	100.00 (ppm)	14.42 (ppm)	53.60 (ppm)

*** Caution**

1. The Test Report is Dong-A University Technical Center for High Performance Valves' own test report.
2. The results shown in this test report refer to the specimen(s) tested only.
3. This Test Report cannot be used except in '2. Use of Report'.

<p>Affirmation</p>	<p>Tested by Researcher Name : J.Y. KWON. (Signature)</p>	<p>Approved by Technical Manager Name : S.J. OH. (Signature)</p>
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2019. 12. 17.

Director of Dong-A University
Technical Center for High Performance Valves