

Fugitive Emissions Certificate No. 8120132312/01 Rev.0

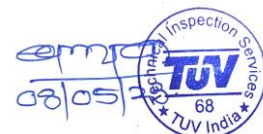
This is to certify that the 12" (DN 300), Class 150# API 603 Wedge Gate Valve

Manufactured by
Flow Link Systems Pvt. Ltd.
189/1A, 1B, 1C & SF 166 Uthupalayam,
Arasur Village, Coimbatore -India

&
Tested by
Teadit Packing & Gaskets Pvt. Ltd.
381/382, Savli GIDC Estate, Manjusar
Vadodara - 391775, Gujarat, India.

As per Fugitive Emission standard API 624 First Edition, February 2014 and complies with the ≤ 100 ppmv stem leakage (static & dynamic) acceptance criteria

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|------------------------|---|-------------------------------|
| Valve details | 12" (DN 300) x 150# Wedge Gate Valve with flanged ends Bolted type connection between body & bonnet (Valve selected & supplied by manufacturer for testing). Stem type : Rising GA Drawing No. : 20 16 01 52 001, Rev.01 MOC: : Body, Bonnet, Wedge & Gland Flange : ASTM A 351 Gr. CF8M, : Stem & Gland Bush : ASTM A 479 Gr. 316 : Valve Serial No. : 20000101001 : Stem diameter: 1.375" [34.925 mm]. : Stuffing Box Depth : 44.13 mm. : Gland Follower Insertion Depth : 1.5 mm (Before Compression) | |
| Stem Seal | GRAPHITE with Inconel wire Mesh, OD-50.47mm x ID-37.96mm X 5 Nos. | |
| Body Seal | GRAPHITE | |
| Test Conditions | Fluid | Methane (having 99.5% purity) |
| | Pressure | 12.4 Kg/ Cm ² (g) |



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|--------------------------------|--|---|
| Test Conditions | Temperature | RT & 260 ± 10 °C (Allowable temperature difference is ± 5%) |
| | Test Method to check emission | Sniffer method for stem seal & body. |
| | No of mechanical cycle completed | 310 mechanical cycles : 04 Nos of Ambient Cycle & 03 Nos. of thermal Cycle Ambient Cycle Details : 04 Nos . [03 Nos x 50 Cycle & 01 No. x 10 Cycle] Thermal cycle Details : 03 Nos. x 50 Cycle. @ 260 ± 10 °C |
| | Time taken during one cycle | 02 Minutes (1 minute during opening & 1 minute during closing) |
| Test Results | Maximum allowable leakage from stem seal | 100 ppmv |
| | Actual maximum leakage observed from stem seal | 39.6 ppmv [Static Leakage] 39.6 ppmv [Dynamic Leakage] |
| | Physical visual verification of moving component (shaft) after operation | No abnormal wear & tear observed on shaft surface |
| Qualification extension | Stem Seal | This test qualifies all the API 603 Wedge Gate Valves of intended for on-off applications having the same seal design, quantity & construction. |
| | Valve Size/ Class | 8" (DN 200) X 150# to 14" (DN350) X 150# |

Remarks:

1. *Test was conducted from 25.04.2023 to 06.05.2023*
2. *This Certificate is valid in conjunction with test report No. : 02/23 Dtd.06.05.2023*

Date: 08.05.2023

