

**MANUFACTURING:**

Custom - built Plasma, UHV & High Vacuum Components, Assemblies & Systems
Manufacturer of Helicoflex type Spring Energized Metal Seal

SERVICES:

Helium Leak Testing, Methane Leak Testing as per API & ISO-15848 Standards
Plasma Processing, Calibration of Vacuum Gauges & Standard Leaks

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Certificate No : **624-2025051901**

Date : May 19, 2025

API STANDARD 624 HIGH TEMPERATURE TEST CERTIFICATE
Type Testing of Rising Stem Valves Equipped with Graphite Packing For Fugitive Emissions

This is to certify that the below mentioned valve has been inspected by Aditya High Vacuum Pvt. Ltd and found to be satisfactory in accordance with the requirements of API 624, Second Edition, February 2023, including Annexure D.

Manufacturer :	KALIKA ENGINEERING WORKS			
Address :	63, Parashvnath Industrial Estate, Chhatral, Gujarat (India)			
Location of Test :	Aditya High Vacuum Pvt. Ltd., Plot No.218 & 219, Road 2, GIDC Kathwada, Ahmedabad 382430, India.			
Product :	Valve Details:	12" 300# Gate Valve		
	Design Standard:	API 598 / API 600 / ASME 16.34		
Packing :	SEAL-IT, NEW EMPIRE GASKETS			
Body Material :	ASTM A216 Gr. WCB			
Bonnet Material :	ASTM A216 Gr. WCB			
Stem Material :	ASTM – A276 TP. 410			
Drawing No.:	KALIKA-GTV/WCB/300#/12300 REV.0			
Test Fluid :	Methane (>97 % Purity)			
Test Pressure :	At Ambient – 41.4 barG		At 400°C – 200 psiG (Nitrogen)	
	At 260°C – 41.4 barG			
Test Temperature :	At Ambient and 260°C For Normal Temperature Test		At Ambient and 400°C For High Temperature Test	
Mechanical Cycle :	310 Cycles over 3 Thermal Cycles For Normal Temperature Test		11 Cycles in ambient and 1 Thermal Cycle For High Temperature Test	
Maximum Leakage :	58.5 ppmv	Normal Temperature Test	76.5 ppmv	High Temperature Test
Average Leakage :	28.9 ppmv		42.3 ppmv	
Acceptance Criteria :	< 100 ppmv maximum			
Test Result :	PASS			
Test Report No :	AHV/SD/FET/R/202505/9			
Test Start Date :	May 15, 2025			
Test End Date :	May 19, 2025			

Valve Qualified : All valves of the same basic design as the test valve may be deemed to have been type tested, subject to the following additional limitation. The 12" (DN 300) Class 300 test valve qualifies all valves from 8" (DN200) to 16" (DN 400) and in pressure class 300# and class 150#.

Test Conducted by	Test Witnessed By
 Venkat N. Ramani ASNT Level III (LT) 183918	  INSPECTION 52-265