

Aditya High Vacuum Pvt. Ltd.

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

Plot No. 218 & 219, Road No.2,
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Email: ahv@ahv.co.in, Web: www.ahv.co.in



Certificate No : 624-2025042001

Date : April 20, 2025

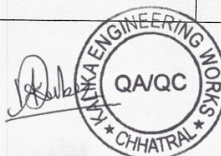
API STANDARD 624 HIGH TEMPERATURE TEST CERTIFICATE Type Testing of Rising Stem Valves Equipped with Graphite Packing For Fugitive Emissions

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:	4" 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 AISI - 410		
Drawing No.:	KALIKA-AVI-GTWC-300-4300 REV.0		
Test Fluid :	Methane (>97 % Purity)		
Test Pressure :	At Ambient - 41.4 barG		
	At 260°C - 41.4 barG		At 400°C - 200 psiG (Nitrogen)
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 :	51.7 ppmv	Normal Temperature Test	69.9 ppmv
Average Leakage :	25.7 ppmv		38.4 ppmv
Acceptance Criteria :	< 100 ppmv maximum		
Test Result :	PASS		
Test Report No :	AHV/SD/FET/R/202504/7		
Test Start Date :	April 16, 2025		
Test End Date :	April 20, 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 4" (DN 100) Class 300 test valve qualifies all valves from 2" (DN50) to 6" (DN 150) 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