

## FUGITIVE EMISSIONS TEST CERTIFICATE

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TC-C2E450A-001

Standard applied:	BS EN ISO 15848-1: 2015 + A1:2017 Prototype Testing (Vacuum Method)
Valve Manufacturer:	BiAR Sampling Systems
Valve Size/Type:	DN25 Sampling Valve
Valve Item No:	04152300
Valve Stem Size	10mm
Valve Material:	ASTM A182 F316L
Valve Stem Seals	Graphite Packing System
Fugitive Emission Tightness Class	Class AH
Valve Class:	ASME 600
Test Pressure:	1200 psig (RT) & 850 psig (+200°C)
Endurance Class	CO1 (Prototype Valves)
Temperature Range Tested	Room Temperature to +200°C
Test Medium	97% Helium
Valve GA Drawing	04152300 Rev 0, 09-05-2019
Test Procedure	TP350 (Test Stage 1, RT to +200°C)
C2E Order Number:	C2E450A

The above valve has been tested in accordance with the specification outlined above and Concept2Engineering Ltd test procedures:

Test Result:	Pass (RT to 200°C)
Background:	$1.62 \times 10^{-6}$ mbar.l/s
<b>Results (RT to +200 °C)</b>	<b>All mass spectrometer readings are taken above the background.</b>
Body	25 ppm
Maximum recorded Stem Seal Leakage	$1.22 \times 10^{-6}$ mbar.l/s
Acceptance Criteria (Tightness Class AH)	$1.78 \times 10^{-6}$ mbar.l/s

This certificate must be read in conjunction with Concept2Engineering test Procedure TP350 (Test Stage 1) and is applicable only to the valve item number identified above. This test certificate is supplied by Concept2Engineering and is not a third party certificate.

Test Dates: 05/09/2019 - 12/09/2019

Compiled By	C2E Test Stamp
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