

# FUGITIVE EMISSION TEST REPORT

## TEST RESULTS

1. TEST FLUID: HELIUM 99.996 PURE
2. TEST TEMPERATURE: 27°C (ROOM TEMPERATURE)
3. TEST PRESSURE: 290 PSI / 20 BAR
4. LEAKAGE MEASUREMENT TAKEN AFTER PRESSURE STABILITY PERIOD: 10 MINS
5. NUMBER OF MECHANICAL CYCLES: 5
6. TORQUE AS PER DESIGN: 32 Nm
7. TORQUE MEASURED: 28 Nm
8. STEM SEAL ADJUSTMENT: 0
9. SHELL ACCEPTABLE FUGITIVE EMISSION MEASURED LEAK RATE:  
 STEM SEAL:  $1.76 \times 10^{-6}$  atm x cc/sec x dia  
 BODY / END FLANGE :  $1.76 \times 10^{-7}$  atm x cc/sec x dia

## 10. LEAKAGE RESULTS

	STEM	BODY / END FLANGE
LEAKAGE ALLOWED	$3.52 \times 10^{-5}$	$1.40 \times 10^{-5}$
ACTUAL LEAKAGE	0	0
BACKGROUND HELIUM LEVEL: $2.2 \times 10^{-7}$ atm x cc/sec		

## 11. MEETING SHELL TIGHTNESS CLASS: B

REMARKS : The leakages were undetectable / below the allowable leakage rates

RESULT : Pass Satisfactory



Tested by:   
 INSPECTOR Level II

Approved by:   
 QUALITY MANAGER