

ROCKWIN CALIBRATION LABORATORY

CERTIFICATE OF CALIBRATION



SPECIFICATION OF THE METER UNDER TEST

ITEM : TURBINE METER
MAKE : ROCKWIN
MODEL NO. : TFM 1075 F
TAG NO. :
FLOW RANGE : 13.5-135 m³/h
INSTRUMENT NO. : 22569

SPECIFICATION OF STANDARD

1. The calibration is carried on 100 mm Uni-Directional Positive Displacement Prover, designed and operated according to API 2531/ MOPMS.
2. The facility has been accredited as an approved laboratory for flow measurement by National Accreditation Board for Testing and Calibration Laboratories, Department of Science & Technology, Government of India.

Repeatability ± 0.0093 %
Uncertainty ± 0.06 %

ROCKWIN CALIBRATION LABORATORY
TEST CERTIFICATE



Customer: Indian Rayon & Inds. Ltd. -Jaya Shree Textiles,
P.O.No : JST/65221399/r.p.179 Dt.18/12/98
W.O.No. : TF-221/02
Calibration Report No: FCL/2308/01

Inst No. : 22569
Model : TFM 1075 F
Range : 13.5-135 m³/h
Date : 3/08/98

The Calibration has been carried out at the Rockwin Calibration Laboratory on the 100 mm Prover Loop. The calibration procedure employed is in accordance with API 2531/API Petroleum Measurement Hand Book. The Prover Loop is designed and operated in accordance with API 2531 and has been certified by British Calibration accredited agency.

Certified Base Prover Volume : 149,980 SI Litres
Detectors No. : 1 & 2
Certified Repeatability : ± 0.0093%
Certified Temperature : 15 Deg. Cel.
Certified Pressure : 1.0 Atm.

Calibration Details :

Prover Temp Deg. C	Prover Pr. Bar G	Pulses Total	Time Secs	Correction Factors CTs CPs		Corrtd. Vol Litres	Flow Rate M ³ / Hr	K Factor Pulses / M ³
25	1.00	2211	4.95	1.0003	1.0000	150.025	109.1	14737.5
25	1.60	2213	5.45	1.0003	1.0000	150.025	99.1	14750.9
25	1.80	2213	8.50	1.0003	1.0000	150.025	63.5	14750.9
25	3.00	2218	18.06	1.0003	1.0001	150.040	29.9	14782.7
25	3.10	2213	40.13	1.0003	1.0001	150.040	13.5	14749.4

Linearity : +/- 0.15 %

Calibration Factor : 14760 l Pulses / M³

Corrected Prover Volume = Certified Base Prover Volume * CTs * CPs

CTs = Temperature Correction Factor for Prover (API 2531 Appendix B Table I)

CPs = Pressure Correction Factor for Prover (API 2531 Appendix B Table II)

Remarks:

Calibrated By: Abhyat Checked By: Mansharma Approved By: _____

Next Calibration Due: 3/08/02