



Challenges

- Lack of metering accuracy confidence
- Inconsistent or unreliable flow meter readings
- Discrepancies between ship and shore leading to commercial disputes or loss claims
- Delayed or incomplete reconciliation of product losses or unauthorized draws
- Inability to verify custody transfer integrity in real time, increasing operational and financial risk
- Lack of audit-ready documentation for regulatory or partner review
- Limited visibility during high-value transfers across truck, rail, or marine operations

**880M+ Barrels of Crude Validated with
ValiChex™**

➔ About Us

FloSeer is a Houston-based technology company focused on improving clarity and accuracy in fluid transfer operations across the energy industry. Our team brings decades of expertise in flow metering, automation, and project execution, delivering solutions that boost accountability, efficiency, and insight.

We are committed to innovation, operational excellence, and lasting client partnerships, helping solve complex challenges with confidence and precision.

➔ Get in Touch

Have questions or want to see a demo? We are here to help you find the best solution for your needs.

Contact Information

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Scan
for more
information



What Is ValiChex™?

ValiChex™ is FloSeer's intelligent software solution for validating bulk liquid transfers with unmatched accuracy. Designed for terminals, refineries, and logistics operators, ValiChex™ monitors every loading event from tank level to ticket.

By analyzing both tank level data and flow meter readings in real time, ValiChex™ ensures accurate transferred volumes at the custody transfer point. It performs a continuous material balance between tank inventory changes and flow data, automatically identifying discrepancies such as leaks, mismeasurements, or unaccounted loss. Calculations are performed in compliance with API or ISO standards, as appropriate.

Features



Automated Ticketing - Generate accurate custody transfer compliant tickets based on tank level changes in real time at the point of oil movement.



Real-time Volume Reconciliation - Compare tank-based and flow meter readings to detect discrepancies.



Recalculation and Error Correction - Corrections with full audit and traceability for any event within the last 14 days.



Alerting and Reporting - Flag discrepancies, generate audits, and export reports instantly.



Vendor Neutral - Seamless connectivity with SCADA, DCS, LIMS, IMS & PLC Systems with industry standard communication protocols.



API and ISO compliant calculations.

A reduction in metering uncertainty of 0.1% provides a saving of 67K USD per 1 Million BBL (where \$67 / US BBL)

Benefits

- **Validation** - Ensure accurate real-time validation of tank volumes and transfers even without a metering system by detecting drift, spreadsheet errors, and mismeasurements to maintain compliance, and optimize throughput
- **Dispute Resolution** - Enables contracts to leverage ATG (Automatic Tank Gauging) as an independent check, reducing friction in custody disputes.
- **Expose and Reduce Uncertainty** - Reduce uncertainty by validating existing measurements, detecting consistent discrepancies, and enhancing confidence.
- **Leak Detection** - Detects leaks, passing valves, and potential theft by identifying discrepancies between flow and tank level data in real time.
- **Backup System** - ValiChex™ can act as the primary system in case of a failure of your Flow Metering System by utilizing tank levels for custody transfer.

A selection of sample reports highlights ValiChex's™ capabilities in detecting loss, verifying flow, and documenting transfer integrity.

Example Tank Material Balance Report

[illegible]

Example Daily Summary Report

FLOSEER LLC COMPANY REPORT
OPERATIONS
DAILY METER MATERIAL BALANCE REPORT
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Start of Day 12/14/24 05:00:00
End of Day 12/15/24 05:00:00

Issued 12/19/24 10:29:47

Berth	BOL	Mtr 24H GSV BBL	ATG 24H GSV BBL	24H Diff GSV BBL	24H Diff %
B1 (1)					
B1 (2)					
B2 (1)					
B2 (2)					
B3 (1)	129788	331,216	331,302	86	0.03
B3 (2)					
B4 (1)	129799	1,150,392	1,149,529	-863	-0.08
B4 (2)					
B5 (1)					
B5 (2)					

Mtr OBQ GSV BBL	ATG OBQ GSV BBL	OBQ Diff GSV BBL	OBQ Diff %
2,015,283	2,014,625	-658	-0.03
2,164,197	2,163,510	-687	-0.03

Differences expressed as ATG-MTR and % Difference as (ATG-MTR)/MTR respectively. As such a negative indicates the Meter indicated more.

Refinery	Mtr Alloc	Mtr 24H GSV BBL	ATG 24H GSV BBL	24H Diff GSV BBL	24H Diff %
AFN	GL3	317,828	317,931	103	0.03
AFS	GL5,6	493,875	494,643	768	0.16
ENR-SGC	131-Z-165	0	265,198	265,198	100.00
ENR-WTS	131-Z-166	0	0	0	0.00
ENR-AH	131-Z-167	0	0	0	0.00
ENR-WTI	131-Z-168	0	100,192	100,192	100.00
AFN/AH	GL2	19,145	19,187	42	0.22

No conflict in meter allocation detected

Mtr	UnAlloc GSV BBL	Mtr	UnAlloc GSV BBL
GL2		131-Z-165	
GL3		131-Z-166	
GL4		131-Z-167	
GL5		131-Z-168	
GL6			
B1		B3	
B2		B4	