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Service Plans

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Calibration

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Certification

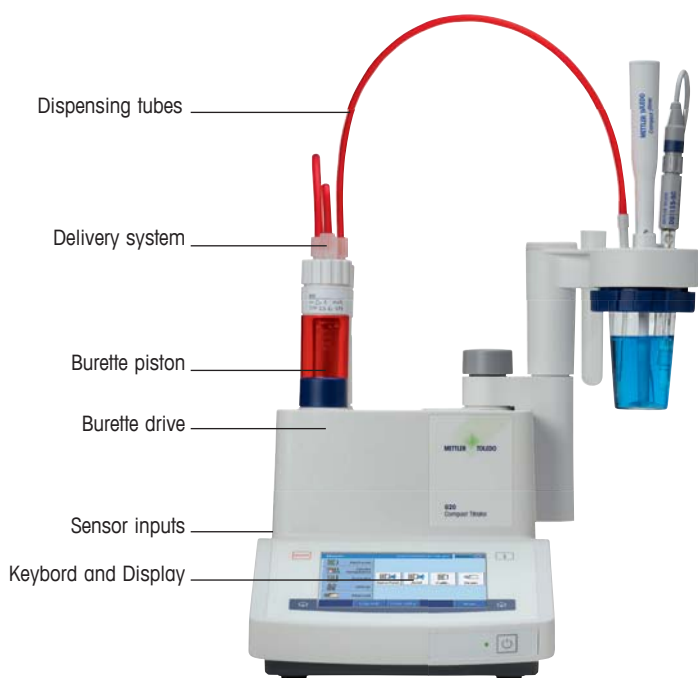
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Qualification

**Innovative Services**  
for Outstanding Titrator Performance

# A Well Maintained Titrator to Guarantee Accurate Results

While your METTLER TOLEDO titrator is known for its accuracy and dependability, proper care is required to keep it performing at its peak potential. Depending on your application, critical components can become worn or decayed which may cause a negative impact on your results. Intermittent negative effects can lead to inconsistency in testing and wasted product. Long term neglect of critical components may lead to unit failure, unexpected downtime and costly repair. Scheduled Preventive Maintenance ensures the reliability of your titrator as shown in the picture below.



## ■ Comprehensive Care ■ Full Preventative Maintenance

■	■	Replacement of dispensing tubes
■	■	Cleaning of delivery system
■	■	Replacement of burette pistons
■	■	Replacement of gaskets
■	■	Testing, cleaning and lubrication of burette drive
■	■	Testing and adjustment of sensor inputs
■	■	Testing of keyboard and display functions
■	■	Check and replace battery if necessary
■	■	Testing of printer function
■	■	External cleaning
■	■	Labor, parts, travel in case of breakdown
■	■	Internal cleaning of PC boards and cables
■	■	Test data reporting
■	■	Priority service
■	■	Technical phone support

### Key Maintenance Activities

### Benefit

Checking/cleaning of delivery system including replacement of siphon	Prevents from clogs and air leaks, and ensures consistent dispensing of titrant.
Replacement of burette pistons	Prevents from leaking, and dispensing inconsistency
Testing and adjustment of sensor inputs	Ensures manufacturer specification
Verification of burette drive stroke	Ensures correct volumes of titrant to be dispensed.
Cleaning and lubrication of mechanical parts	Ensures manufacturer specifications

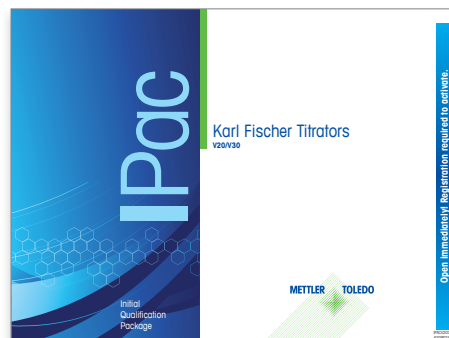
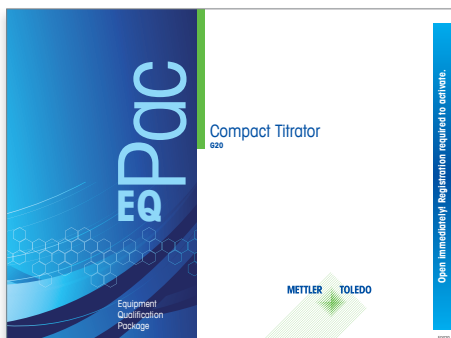


METTLER TOLEDO's qualification solutions for titrators take away the guesswork when it comes down to ensuring quality and regulatory compliance. These service offerings meet customer demand to cover either initial or entire equipment qualification. These professional solutions offer the following benefits:

■ **EQPac Comprehensive Qualification**

■ **IPac Standard Qualification**

- ■ All necessary chemicals and standards
- ■ Professional installation (IQ)
- ■ Adjustment of leveling and filter settings (IQ)
- ■ Testing according to SOP (OQ)
- ■ Introduction to equipment (OQ)
- ■ General system suitability test (OQ)
- ■ Calibration certificate (OQ)
- Support with Performance Qualification (PQ)
- Overall documentation in logbook (PQ)
- Onsite user familiarization training (PQ)



## Equipment Calibration



CertiCase containing certified micrometer, glass burette, resistors, and voltage simulator

While the reliability of METTLER TOLEDO's titrators is ensured through periodic maintenance, its accuracy relies on calibrations, which are performed by manufacturer trained and certified technicians. METTLER TOLEDO recommends yearly calibration intervals with the following benefits:

- Documented evidence that your titrator is working within manufacturer specification
- Calibration process performed in accordance with ISO 8655-6, and with reference material traceable to National Standards
- Compliance with ISO, GxP, and HACCP requirements
- Known history of equipment performance
- All calibrations performed using METTLER TOLEDO's proprietary CertiCase

## Equipment Certification



METTLER TOLEDO recommends yearly certification with the following benefits:

- Testing of sensor inputs with NIST traceable voltage source
- Testing of current output with NIST traceable DMV (Karl Fischer only)
- Certification of piston stroke of burette drive
- Certification of burette at three volumes
- ISO/ICE 17025 accredited pre-and post-calibration
- Certification of titrator, one drive and one burette

[www.mt.com/service](http://www.mt.com/service)

For more information

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