

# INFUSION, TRANSFUSION & BLOOD COLLECTION TESTING EQUIPMENT



## **Infusion, Transfusion & Blood Collection Testing | ISO 8536 & ISO 6710 Compliance**

Infusion, transfusion, and blood collection testing equipment verifies the flow rate, leak resistance, and pressure performance of gravity-fed delivery sets, check valves, and blood handling devices before they reach clinical use.

Torontech's range is built around ISO 8536, the multi-part standard covering infusion and transfusion equipment, along with ISO 6710 for vacuum blood collection tubes and ISO 3826-1 for blood bags. Manufacturers, quality control labs, and contract testing facilities use these instruments to confirm that fluid delivery, sealing, and check valve function meet international requirements.

The range spans both manual and automated flow rate testers, positive and negative pressure leak testers, a dedicated check valve tester, and instruments built specifically for blood collection tubes and blood bags, covering the chain from infusion set production through to blood handling validation.

## **Why Choose Torontech for Your Infusion, Transfusion & Blood Collection Testing**

Torontech supplies testing and measurement equipment to laboratories and manufacturers across North America and worldwide, backed by responsive technical support and calibration service. The Infusion, Transfusion & Blood Collection Testing range is built for reliable, standards-driven results, so you can standardize on one supplier as your testing needs grow. Our team helps you match the right configuration to your samples, applicable standards, and throughput, then supports you through installation and beyond.

## **Request a Quote**

Tell us which infusion, transfusion, or blood collection device you need to test and the standards your program follows, and we will recommend the right instrument from this range. [Contact the Torontech team](#) for pricing and lead times.

## APPLICATIONS

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### Applications

Infusion, transfusion, and blood collection testing supports manufacturers and labs across single-use delivery and blood handling devices.

- Infusion and Transfusion Set Manufacturing: validates flow rate and leak resistance of gravity-fed infusion sets, donor sets, and transfusion sets against ISO 8536 and ISO 1135.
- Check Valve and Flow Control Component QA: confirms blocking performance of single-use check valves used with pressure infusion devices.
- Blood Collection Tube Production: verifies draw volume of vacuum blood collection tubes under simulated altitude conditions per ISO 6710.
- Blood Bag and Storage Container Validation: checks pressurized emptying performance of blood bags and related single-use containers per ISO 3826-1.

## TECHNICAL SPECIFICATIONS

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### Infusion, Transfusion & Blood Collection Testing Range

The range covers eight test methods spanning flow rate, leakage, check valve, and blood handling performance.

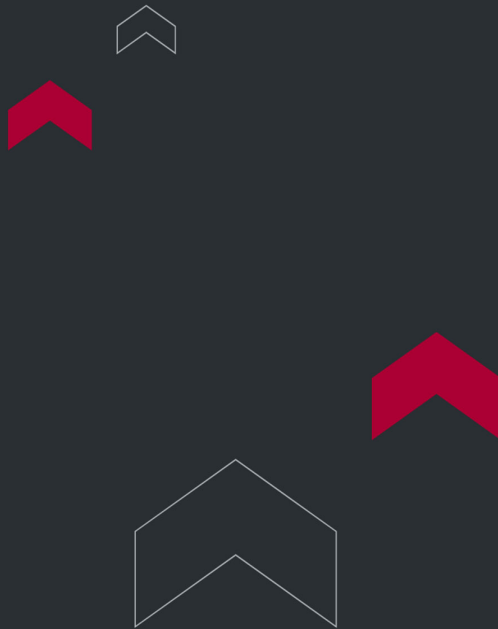
| Tester | Key Standard | What It Measures |
|--------|--------------|------------------|
|--------|--------------|------------------|

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|------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Infusion Sets Positive Pressure Leakage Tester</a>   | ISO 8536-4, EN 1618                                               | Leak resistance of infusion sets, catheters, transfusion sets, and anesthesia filters under positive pressure.                               |
| <a href="#">Infusion Set Flow Rate Tester</a>                    | ISO 8536-4, EN 1618                                               | Gravity-fed flow rate of infusion and donor sets under a manual 1-meter hydrostatic head, with operator timing and volume collection.        |
| <a href="#">Auto Infusion Sets Flow Rate Tester</a>              | ISO 8536-4, ISO 1135-4, EN 1618                                   | Automated gravity-fed flow rate of infusion and transfusion sets, with active constant-level hydrostatic head control and integrated timing. |
| <a href="#">Infusion Sets Leakage Tester – Negative Pressure</a> | ISO 8536-4, EN 1618                                               | Leak resistance of infusion sets, catheters, transfusion sets, and anesthesia filters under negative pressure.                               |
| <a href="#">Blocking Performance Tester</a>                      | ISO 8536-12                                                       | Blocking and check-valve performance of single-use check valves used in infusion equipment.                                                  |
| <a href="#">Catheter Pressure Transfer &amp; Flow Tester</a>     | ISO and EN standards for catheter and breathing system validation | Pressure transfer characteristics and flow performance of catheters, infusion sets, and respiratory tubing.                                  |
| <a href="#">Evacuated Receptacle Draw Volume Tester</a>          | ISO 6710:2017                                                     | Draw volume of vacuum blood collection tubes under simulated altitude and vacuum conditions.                                                 |
| <a href="#">Blood Bag Emptying under Pressure Tester</a>         | ISO 3826-1                                                        | Pressurized emptying performance of blood bags and single-use plastic medical storage containers.                                            |

## How to Choose the Right Infusion, Transfusion & Blood Collection Tester

- For routine flow rate QC: choose the manual infusion set flow rate tester for cost-effective, operator-run testing.

- For high-throughput or auditable flow rate testing: choose the auto infusion sets flow rate tester for active level control and automated timing across infusion and transfusion sets.
- For seal and leak validation: choose the positive pressure or negative pressure leakage tester depending on whether the device is tested under positive or vacuum conditions.
- For check valve components: choose the blocking performance tester to confirm single-use check valves hold pressure correctly.
- For blood collection tubes: choose the evacuated receptacle draw volume tester to validate vacuum draw volume per ISO 6710.
- For blood bags and storage containers: choose the blood bag emptying under pressure tester to confirm pressurized emptying performance per ISO 3826-1.



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