



Thermo Scientific Three60 Single-Use Sampling System

Taking a sample made to be simple

Sampling made to be simple

The simple design behind the Three60 Sampling System allows you to take a representative sample of your product with minimal effort. For a completely sterile transfer, use a CIP or SIP process to prepare your tank. The pre-irradiated BioProcess Containers (BPCs) and assemblies will ensure a sterile fluid path while the quick-turn valve and pinch-and-cut disconnections maintain sterile transfer and removal.

Efficient

With the Thermo Scientific™ Three60™ Single-Use Sampling System, there are no parts to be assembled, disassembled, or cleaned, and unlike other single-use sampling systems, no additional tools are needed. The entire set can be easily applied to your fluid holding vessel or transfer line and four samples can be removed in only a few minutes.

The Three60 system is compatible to your vessel with a 3.8 cm (1.5 in.) sanitary connector; no expensive hardware is needed. Each Three60 package contains a valve and four assemblies with Pinch-and-cut disconnections.

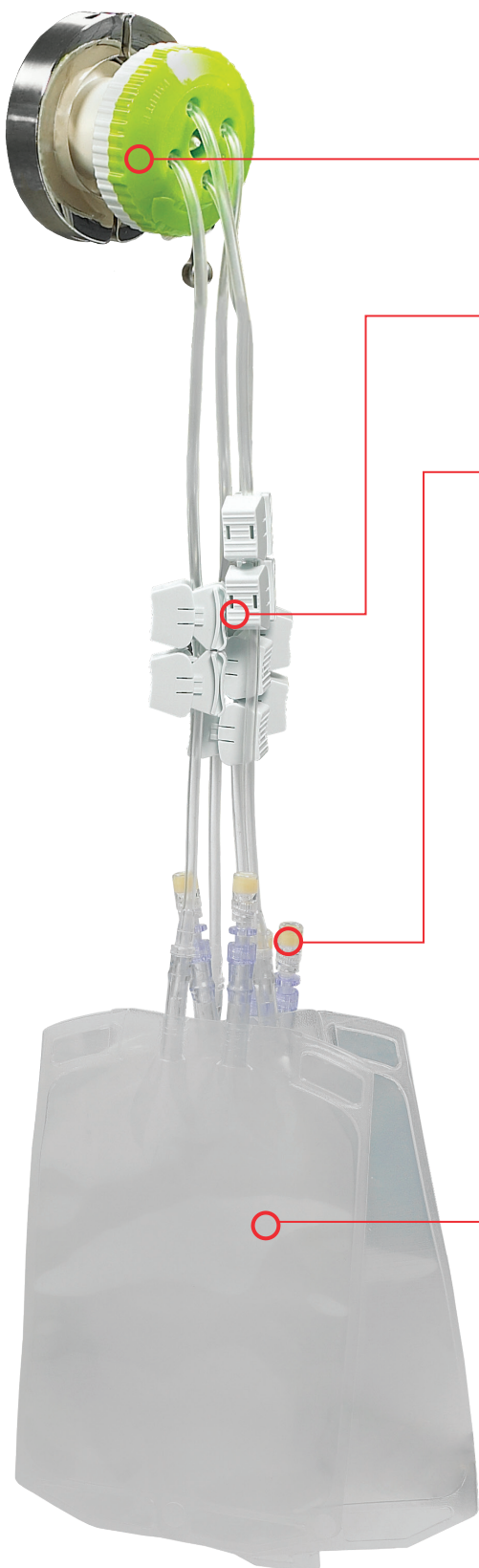
Single-use solution

Single-use systems enables improved sterility and reduced cleaning requirements over traditional sampling systems across all applications in the biopharmaceutical Industry. The Three60 system brings the same advantages to sampling resulting in a quicker solution and a safer process.



Kit to tank

Three60 assembly specifications



Kit to tank

The Three60 kit is pre-irradiated and assembled into a one-piece. Simply remove the pre-sterilized device from the kit and apply to the vessel.

- **Quick-turn Three60 valve:** The face of the Three60 valve can be sterilized with the tank through traditional CIP/SIP processes. The valve has four sterile assemblies. This keeps the product and technician contaminant free.
- **Pinch-and-cut sterile disconnections:** The pinch-and-cut disconnections allow the technician to quickly separate the sample and eliminate the need for tools or tube sealing.
- **Injection ports:** Luer lock injection site. Extract through either the septum or twist-off luer to pour.
- **Pre-irradiated BPC assemblies:** The Three60 is provided with pre-irradiated BPC assemblies in sizes ranging from 50 mL to 2 L.

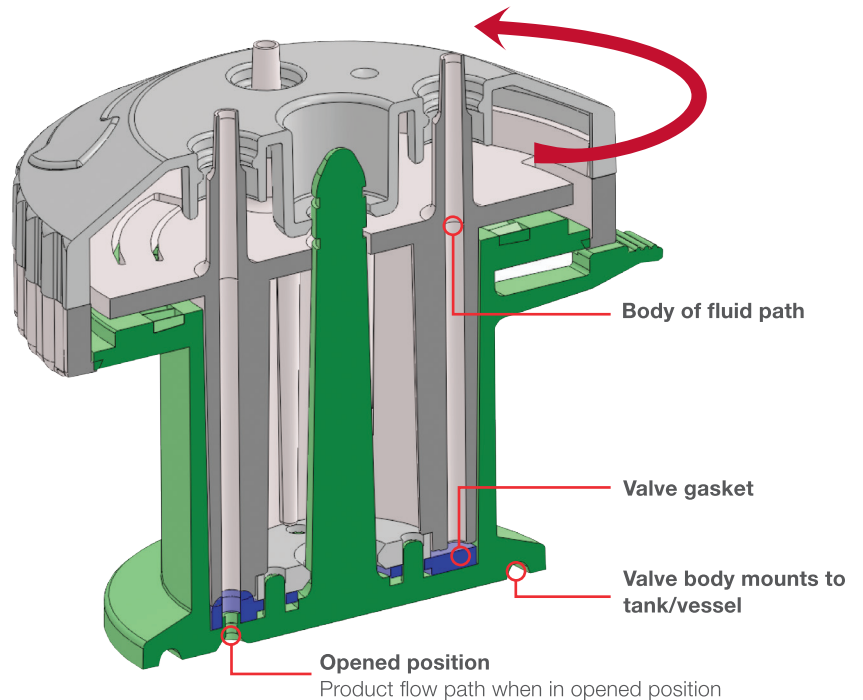




Kit to tank

Three60 assembly specifications

The Three60 valve only turns in one direction and will only turn once to an open position then again to a closed position for each line. There is no risk of cross-contamination between lines because of the single-turn direction of the valve barrel and the individual fluid paths for each sample assembly. Additionally, the valve closes ensuring that no fluid “hold-up” can be flushed into the next sample during the CIP/SIP process.



Pinch-and-cut disconnections

The pinch-and-cut disconnection is the answer to the industry's need for a simple method of sealing and disconnecting a tube. With only the operator's hands, the device will pinch the tube closed, seal the tube ends, and “cut” them apart; thus enabling a quick disconnection of the sample BPC.

Step 1

First, after the fluid transfer is complete, using both hands, grip the cutting clamp closest to the sample BPC and press down until the audible click is heard and the top rests on the lip. **NOTE: It is CRUCIAL that the clamp closest to the sample BPC is engaged first.**



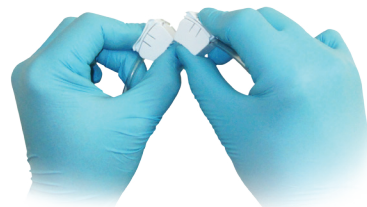
Step 2

Repeat the same action as step one with the clamp closest to the valve. Then, when you are sure the lock has engaged, grip the clamps with both hands and the “V” facing you.



Step 3

Press thumbs towards each other. This action will break the clamps to allow separation. Continue the motion until the tube separates. The clamp is permanently closed and integrally sealed.





Ordering information

Product	Cat. No.
Three60 sampling BPCs	
50 mL, 2 port sampling BPC	B100563-I
100 mL, 2 port sampling BPC	B100564-I
250 mL, 2 port sampling BPC	B100565-I
500 mL, 2 port sampling BPC	B100566-I
1 L, 2 port sampling BPC	B100567-I
Three60 sampling systems	
50 mL Three60 sampling system with four, 2 port sampling BPCs	4MP0034
100 mL Three60 sampling system with four, 2 port sampling BPCs	4MP0035
250 mL Three60 sampling system with four, 2 port sampling BPCs	4MP0036
500 mL Three60 sampling system with four, 2 port sampling BPCs	4MP0037
1 L Three60 sampling system with four, 2 port sampling BPCs	4MP0038
2 L Three60 sampling system with four, 2 port sampling BPCs	4MP0039

Please contact your BioProduction sales representative for more information.

Integrated solutions for bioproduction

Single-Use Mixers (S.U.M.s)

A variety of options up to 5,000 L for both upstream and downstream applications



BioProcess Containers (BPCs)

A variety of configurations up to 2,000 L for liquid harvest, storage, and transportation



Single-Use Bioreactors (S.U.B.s)

50–2,000 L bioreactors capable of integrating with an existing control system



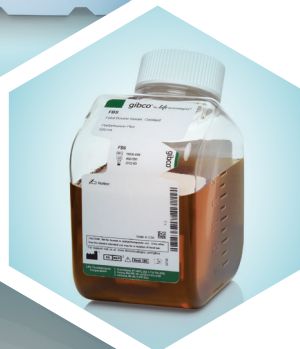
Liquid- and dry-format media

We offer both custom manufacturing and a full range of chemically defined performance media and supplement products



Sera

Our sera are known for consistent quality and reliability



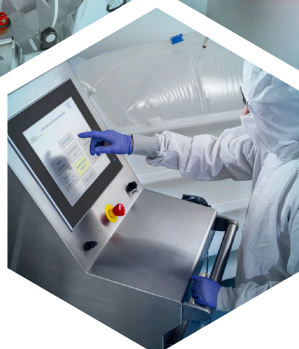
Buffers and process liquids

Custom and standard buffers and process liquids, including Gibco™ Water for Injection (WFI) quality water



Integrity testing systems

A true point-of-use integrity testing system to confirm the integrity of BPCs before use



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