Your Partner for Custom Aseptic Kits and Assemblies and Single-Use Technologies

- Save valuable time with a single source
- One partner, hundred of components
- Ensure quality and regulatory compliance

1-800-637-3739
Masterflex.com
Skip the parts research to quickly get the design and level of sterility you need with thousands of stocked components and dedicated resources.

Our technical experts will work with you to design configurations of tubing, fittings, bags, and filters that fit seamlessly into your current bioprocess system. Then, we provide the assembly labor, packaging, and sterilization per your requirements. With just one part number to order, you spend less time purchasing, receiving, and keeping track of components! Plus, we can accommodate almost any size order from small quantities for pilot runs to large quantities for production—and even provide custom labeling on tubing and packaging. Whether you work in the lab, the pilot plant, production, or procurement, Masterflex is your solution.

Let us fulfill all of your single-use assembly needs from simple connections of tubing and fittings to very complex integrations with bags, pumps, and sensors.

From your concept to completed assembly

Save Valuable Time

Description:

Part #: Lot #:
Qty: Exp. Date:
Date of Manufacture:
One partner, hundreds of components

Our brand partners are carefully selected and trusted in the industry. Keeping track of components is critical but time-consuming. Masterflex Single-Use has the widest selection of single-use components in the industry from the most trusted brands so you can be sure our design will fit your process and your supply will remain uninterrupted.

Use any of thousands of disposable components from brand names such as:

- Advantec®
- CPC®
- Levitronix®
- Millipore®
- Nordson
- PendoTECH®
- Quattroflow™
- Saint-Gobain™
- Tygon®

Masterflex—providing single-use assemblies for top companies in diverse markets such as pharmaceutical, food & beverage, aerospace, and manufacturing

Ensure quality and regulatory compliance

Rely on complete validation

Masterflex single-use assemblies can arrive gamma-sterilized and can be validated to a $10^{-6}$ Sterility Assurance Level. Assemblies include complete validation documentation and full lot traceability. We track the production site, date, and resources utilized to produce each assembly. Choose fully validated sterile, non-sterile, or microbial-controlled products and assemblies. Masterflex can increase consistency and reduce safety concerns.

Assemblies are produced in a ISO Class 7 (10,000) cleanroom. The assembly facility is ISO-13485 certified, cGMP compliant, and FDA registered.
Why Single-Use Technology?

Today, bioprocessing systems rely on it, and if your production lines aren’t using it yet, chances are that your competitors’ lines do. Single-use technology offers several benefits over hard plumbing in stainless steel—including reduced costs, faster batch turnaround, faster product changeover, reduced utility consumption, greater flexibility, and validated quality.

- Eliminate cleaning requirements
- Reduce capital investment in facility and equipment
- Avoid costs associated with system redesign and modifications
- Decrease risk of product cross-contamination

5 Reasons to Choose Masterflex Single-Use

Masterflex has been supplying fluid handling equipment and components for more than sixty years, and today we offer the widest selection of fluid path components and sensor technology to meet the needs of your process. Whatever your process needs—filtration, fluid lines, process containment, process control, cell generation, or sampling—you can count on Masterflex to supply the exact component you need to improve your efficiency.

1. Fast turn-around for your designs because thousands of our components are in-stock and supported through secondary and tertiary sources.

2. Ensure supply levels and streamline component management with the market’s widest selection of biocompatible fluid path equipment from major brands including Masterflex Bioprocessing, Nordson, PendoTECH, EMD Millipore, Colder, and Saint-Gobain.

3. Never chase down documentation again. Documentation to support material compliance requirements and validation procedures are provided with every lot.

4. Components are assembled in an ISO Class 7 cleanroom. Masterflex Single-Use packaging has been tested and validated to stringent guidelines to ensure product quality throughout shipping, arrival, and storage at your facility. Our single-use bags feature a tear notch for easy opening without the use of tools or excessive pulling.

5. Save on costs by getting exactly what you need from pilot to production. Scalable value-added services such as custom-cut tubing, component kitting, small-lot gamma irradiation—even customized pump solutions. All are available at three levels: as kits assembled in a cleanroom; as kits assembled in a cleanroom and sent for gamma irradiation; and as kits assembled in a cleanroom, sent for gamma irradiation, and inclusion of 10⁻⁶ SAL document.

Not convinced? Check out our webinar.
Three Simple Steps to Installation

Design
With thousands of in-stock components from different brands to choose from, we work with you to map the assembly and make recommendations on components, sensors, and other equipment. Our experts review and confirm each step to ensure you receive the product you need. Upon your approval of the design, we will send a sample of the assembly for your final approval.

Assemble
All assembly is carried out in a cleanroom environment and spot checked prior to shipment. Three levels of sterility are available, and all assemblies are double bagged.

Shipment & Support
Establish manufacturing and delivery timelines that fit your schedule. Masterflex stocks many fluid handling components such as tubing, fittings, filters, and bags so they are available when needed. Complete regulatory information is provided with every shipment in the form of a lot-traceable certificate of compliance and certificate of irradiation.
Masterflex Pump and Braided Transfer Tubing, Puri-Flex™
- Premium translucent tubing offering much lower spallation and longer pump life than silicone
- Heat-sealable and weldable
- Ideal for your sensitive cell work

Masterflex Pump Tubing, Platinum-Cured Silicone
- Smooth surface; lower protein binding levels
- Fewer potential leachables
- Ideal for pharma and biotech use

Masterflex Pump and Transfer Tubing, PharMed BPT®
- Popular opaque tubing option in the bioprocess community
- Nontoxic, nonhemolytic, heat sealable, and weldable
- Offers a long pump life

Masterflex Pump Tubing, PharmaPure®
- Biocompatibility similar to PharMed BPT
- Long life under continuous pressure up to 40 psi (2.7 bar)
- Very low spallation and low extractables

Masterflex Pump Tubing, Chem-Durance® Bio
- When you need chemical resistance and biocompatibility with extra low spallation, there is no better choice!
- Excellent life and durability under pressure
Components

Masterflex Sanitary Fittings with Fused Gasket

- Sanitary gasket combined with a sanitary fitting adds another layer of safety to installation
- Prevent contamination with zero user contact with the gasket to ensure sterility
- No adhesives and no clips to hold the gasket in place

Masterflex Quick-Disconnect Fittings

- Audible “click” confirms a secure connection
- Single-handed disconnect with intuitive thumb-latch design
- Easily rotates and remains leak-free while under pressure

Masterflex Single-Use Flow Sensors

- Modular, interchangeable, and low cost, these flow sensor systems are designed for single-use applications
- Accurate ±1% of reading measurement at low flow
- Flow tubes and turbine sensors are produced and tested under cleanroom conditions

PendoTECH Pressure Sensors

- Robust enough to be repeatedly cleaned and inexpensive enough to be utilized in disposable applications
- Rated to 75 psi (5.2 bar)
- Choice of hose barb, sanitary flange, or luer connection—in ¼” to 1” sizes
- Manufactured and individually tested in an FDA-registered ISO 13485 Cleanroom. Certificate of quality included with lot certification.
<table>
<thead>
<tr>
<th>Exclusive Masterflex formulation</th>
<th>Yes</th>
<th>Yes</th>
<th>No</th>
<th>No</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bore sizes available</td>
<td>⅛&quot; to ⅜&quot;; all L/S, I/P, &amp; B/T sizes; microbore</td>
<td>⅛&quot; to ⅜&quot;; all L/S, I/P, &amp; B/T sizes; microbore</td>
<td>⅛&quot; to ⅜&quot;; all L/S, I/P, &amp; B/T sizes; microbore</td>
<td>⅛&quot; to ⅜&quot;; all L/S, I/P, &amp; B/T sizes (Precision sizes only)</td>
<td>⅛&quot; to ⅜&quot;; all L/S, I/P, &amp; B/T sizes</td>
</tr>
<tr>
<td>Wall thickness available</td>
<td>Thin, thick</td>
<td>Thin, thick</td>
<td>Thin, thick, high-pressure</td>
<td>Thin, thick</td>
<td>Thin, thick</td>
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<tr>
<td>Dynamic (pumping) temperature</td>
<td>–30 to 100°C (–22 to 212°F)</td>
<td>–40 to 100°C (–4 to 212°F)</td>
<td>–20 to 100°C (–4 to 212°F)</td>
<td>–20 to 100°C (–4 to 212°F)</td>
<td>0 to 40°C (32 to 104°F)</td>
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<tr>
<td>Lifetime (hours @ STP)</td>
<td>Thousands</td>
<td>Hundreds</td>
<td>Ten thousands</td>
<td>Ten thousands</td>
<td>Thousands</td>
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<tr>
<td>Gas permeability</td>
<td>CO₂: 1200</td>
<td>CO₂: 12,132</td>
<td>CO₂: 1200</td>
<td>CO₂: 1200</td>
<td>CO₂: 745</td>
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<tr>
<td></td>
<td>O₂: 80</td>
<td>O₂: 7961</td>
<td>O₂: 200</td>
<td>O₂: 200</td>
<td>O₂: 135</td>
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<tr>
<td></td>
<td>N₂: 200</td>
<td>N₂: 2763</td>
<td>N₂: 80</td>
<td>N₂: 80</td>
<td>N₂: 45</td>
</tr>
<tr>
<td>Best uses</td>
<td>Acids, bases, sterile and viscous fluids; heat sealable/weldable</td>
<td>Aseptic fluids such as cell culture and food</td>
<td>Acids, bases, aseptic, light sensitive, high pressure fluids; heat sealable/weldable</td>
<td>Acids, bases, sensitive aseptic fluids</td>
<td>Excellent with acids, bases, aseptic fluids</td>
</tr>
<tr>
<td>Lot traceable from raw material to finished product</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Sterilization</td>
<td>EtO, autoclave, or gamma irradiation</td>
<td>EtO, autoclave, or gamma irradiation</td>
<td>EtO, autoclave, or gamma irradiation</td>
<td>EtO, autoclave, or gamma irradiation</td>
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<tr>
<td>Meets classifications</td>
<td>USP Class VI FDA 21 CFR 177.2600 and 177.1810 REACH (non-DEHP) compliant RoHS compliant ADCF compliant</td>
<td>USP Class V Extractables (Exceeds Class VI Implant) FDA 21 CFR 177.2600; FDA 21 CFR 210 and 211 European Pharmacopeia (EP 3.1.9) Exceeds 3A sanitary cGMPs REACH (non-DEHP) compliant RoHS compliant ADCF compliant</td>
<td>USP Class VI FDA 21 CFR 177.2600 European Pharmacopeia (EP 3.2.9) REACH (non-DEHP) compliant RoHS compliant ADCF compliant</td>
<td>USP Class VI FDA 21 CFR 177.2600 European Pharmacopeia (EP 3.2.9) REACH (non-DEHP) compliant</td>
<td>USP Class VI FDA 21 CFR 177.2600 REACH (non-DEHP) compliant RoHS compliant</td>
</tr>
</tbody>
</table>

**Chemical Compatibility Database**

With our Masterflex Chemical Compatibility Database, you can verify the compatibility of your fluid with our unrivaled offering of tubing formulations.

Masterflex.com/MflexChem

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Masterflex.com