

# Лабораторные принадлежности и аксессуары, ч. 1

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# Cole-Parmer Stepless Ear Clamps, Degreased; 12 to 14.5mm, 0.472 to 0.570"; 100/Pk



Unique stepless design provides a 360° leak-free seal

- Tongue-in-groove design exerts uniform pressure
- Dimple provides increased clamping force
- Fast and easy installation
- Degreased to minimize contamination
- Lightweight, narrow band design

## Specifications & Description

•	Minimum ID (in)0.472
•	Maximum ID (in)0.57
•	Minimum ID (mm)12
•	Maximum ID (mm)14.5
•	MaterialStainless steel
•	DescriptionStepless Ear Clamps, Degreased; 12 to 14.5mm, 0.472 to 0.570"; 100/Pk

### MORE ABOUT THIS ITEM

Ensure leak-free connections with stepless ear clamps. Simply crimp the clamp ear with a crimping tool to adjust the size. The tongue resides in the groove to exert 360° uniform pressure around the clamp creating a tight seal around the connection. A dimple on the ear increases clamping force and helps compensate for changes in diameter due to thermal expansion. Made from lightweight yet durable chromium-nickel stainless steel, clamps feature a high strength-to-weight ratio. Clamps are degreased to reduce particulates, making them ideal for critical-use applications.

**Warning:** This product is not approved or intended for, and should not be used for, medical, clinical, surgical or other patient-oriented applications.


# Cole-Parmer® Flow Through Tubing Weight, PTFE




Prevent tubing from coiling or floating during fluid transfer applications

- Tapered hose barb fitting easily inserts into the inner diameter (ID) of flexible tubing
- Keep tubing submerged in liquid, preventing floatation, and ensuring uninterrupted fluid flow
- Constructed of chemically inert PTFE
- Autoclavable—allowing for easy sterilization and reuse

Cole-Parmer® flow-through tubing weights provide the perfect solution for keeping tubing submerged, preventing floatation, and ensuring uninterrupted flow throughout the fluid transfer process. Crafted from high-quality PTFE, these tubing weights are chemically inert, ensuring compatibility with a wide range of fluids and preventing contamination. Weighted ends are open in the center and feature a tapered hose barb fitting for easy attachment to flexible tubing , ensuring a snug and secure fit. Designed for maximum convenience and versatility, our tubing weights are autoclavable at 121°C for 20 minutes at 15 psi.

item	Maximum ID (in)	Minimum ID (in)	Description
<div>  EW-50117-98</div>	0.25	0.1875	Flow Through Tubing Weight, PTFE, 3/16" to 1/4" Tubing


item	Maximum ID (in)	Minimum ID (in)	Description
 EW-50117-99	0.4375	0.3125	Flow Through Tubing Weight, PTFE, 5/16" to 7/16" Tubing

# Cole-Parmer® Ratchet-Style Pinch Clamps, Polypropylene



Shut-off the flow with a simple push

- Lightweight and reusable
  - Rust and corrosion resistant
  - USP Class VI compliant—excellent for biotechnology and pharmaceutical applications for transferring sterile fluids
  - Sterilize by autoclave or gamma irradiation
  - Ideal for general-purpose, laboratory, and single-use applications to connect tubing with the rest of your system
  - Free technical application support available to determine which connector type is needed for your application
- Ratchet-style pinch clamps provide an easy way to control the flow in flexible tubing. Multi-position ratchet control adjusts to allow flow from full flow to complete stop; simply push down all the way until it latches to stop the fluid flow.

  EW-50131-11	Polypropylene	1	Ratchet-Style Pinch Clamp, Polypropylene, Small; 25/Pk
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EW-50131-12

Polypropylene

1.5

Ratchet-Style  
Pinch Clamp,  
Polypropylene,  
Medium; 25/Pk



EW-50131-13

Polypropylene

2.3125

Ratchet-Style  
Pinch Clamp,  
Polypropylene,  
Large; 25/Pk

# Cole-Parmer® Tubing Cutters






## COLE-PARMER

Durable steel blade makes straight, clean cuts through plastic tubing

- Steel blade offers durability  
Use tubing cutters to make clean, straight cuts through your plastic tubing. Straight cuts ensure better connection to fittings.

## 3 PRODUCT OPTIONS

item	Color	Compatible With	Description
 EW-50118-48	Blue	Tubing with 1/16" to 5/8" OD	Benchtop Tubing Cutter, 1/16" to 5/8" OD

item	Color	Compatible With	Description
  EW-50118-49	Silver	Benchtop tubing cutter 50118-48	Replacement Blade for Benchtop Tubing Cutter
 EW-50118-50	Black	Work with tubing up to 1-1/4" OD (1-1/2" OD for PE tubing)	Handheld Tubing Cutter, PTFE Coated Steel, Max 1-1/4 OD Tubing

## Specifications & Description

•	Clamp Material	Glass-filled nylon
•	Clamp Type	Pinch
•	Color	White
•	Min Grip Range (InchShort)	0.375
•	Max Grip Range (InchShort)	0.875
•	Height (in)	2.375
•	Width (in)	0.75
•	Length (in)	3
•	Description	Sanitary Pinch Clamp, Nylon; 1/Ea
•	Warranty	Manufacturer defect

### KEY FEATURES

- Lightweight and reusable
- Rust and corrosion resistant
- USP Class VI compliant—excellent for biotechnology and pharmaceutical applications for transferring sterile fluids
- Sterilize by autoclave or gamma irradiation
- Ideal for general-purpose, laboratory, and single-use applications to connect tubing with the rest of your system
- Free technical application support available to determine which connector type is needed for your application
- Handles tubing from 3/8" to 7/8" OD
- Manufacturer defect warranty

### MORE ABOUT THIS ITEM

Easily install pinch clamp on existing tubing assemblies to stop the flow. Simple-to-use clamp features a 90° swing-away lock nut that pinches the tubing to close the fluid pathway. Clamp accepts a wide range of flexible tubing materials and sizes. Friction lock screw feature releases quickly from locked position.

**Warning:** This product is not approved or intended for, and should not be used for, medical, clinical, surgical or other patient-oriented applications.

# Valves



Tailor your valve selection to meet the unique demands of your application and maintenance requirements. We offer a vast array of manual and actuated valves in different materials and sizes, suitable for various purposes. Consider the fluid type and its characteristics when determining the appropriate valve material, alongside factors like temperature, pressure, and flow rate. For laboratory valves, also assess parameters such as response time and the duration of valve energization to ensure seamless operation.





## Cole-Parmer® Miniature Check Valves, Hose Barb, Polypropylene and Viton®



Versatile check valves can be installed in any position

- Prevent backflow to protect your equipment
- Work with both liquids and gases
- Use for pressure or vacuum applications
- 0.18 psi breaking pressure

Install these miniature check valves with hose barbs in any position to prevent backflow. They are compatible with both liquids and gases for pressure or vacuum applications. They require 0.18 psi breaking pressure; closing pressure is 0.014 psi.

item	Flow Coefficient (Cv)	Housing Material	Tubing ID (in)
<div data-bbox="126 324 258 450"></div> <div data-bbox="132 517 298 551">EW-50115-20</div>	0.11	Polypropylene	0.125
<div data-bbox="126 741 258 866"></div> <div data-bbox="264 741 429 775">EW-50115-21</div>	0.12	Polypropylene	0.1875
<div data-bbox="126 1095 258 1220"></div> <div data-bbox="264 1095 430 1128">EW-50115-22</div>	0.13	Polypropylene	0.3125
<div data-bbox="126 1447 258 1572"></div> <div data-bbox="132 1639 298 1673">EW-50115-48</div>	0.12	Polypropylene	0.25


# Cole-Parmer® Miniature Check Valves, Hose Barb, PVDF and Viton®



Versatile check valves can be installed in any position

- Prevent backflow to protect your equipment
  - Work with both liquids and gases
  - Use for pressure or vacuum applications
  - PVDF and Viton construction provides excellent corrosion and chemical resistance
  - 0.18 psi breaking pressure
- Install these miniature check valves with hose barbs in any position to prevent backflow. They are compatible with both liquids and gases for pressure or vacuum applications. They require 0.18 psi breaking pressure; closing pressure is 0.014 psi.

## 4 PRODUCT OPTIONS

item	Flow Coefficient (Cv)	Housing Material	Tubing ID (in)
 EW-50114-92	0.12	PVDF	0.25


item		Flow Coefficient (Cv)	Housing Material	Tubing ID (in)
 EW-50115-23		0.12	PVDF	0.1875
	 EW-50115-24	0.12	PVDF	0.3125
	 EW-50115-57	0.11	PVDF	0.125
EW-50115-57				


# Cole-Parmer® Miniature Check Valves, Hose Barb, Nylon and Silicone



Versatile check valves can be installed in any position

- Prevent backflow to protect your equipment
  - Work with both liquids and gases
  - Use for pressure or vacuum applications
  - 0.18 psi breaking pressure
- Install these miniature check valves with hose barbs in any position to prevent backflow. They are compatible with both liquids and gases for pressure or vacuum applications. They require 0.18 psi breaking pressure; closing pressure is 0.014 psi.

item	Flow Coefficient (Cv)	Housing Material	Tubing ID (in)
<div>EW-50115-18</div>	0.12	Nylon	0.125

item	Flow Coefficient (Cv)	Housing Material	Tubing ID (in)
 EW-50115-19	0.13	Nylon	0.25
 EW-50115-68	0.13	Nylon	0.1875




# Cole-Parmer® VapLock™ Solenoid-Operated Isolation Valves










Fully isolated solenoid allows use with aggressive and high-purity fluids

- Designed for over 20 million continuous cycles
- Compact design—ideal for tight spaces
- Fast response time
- Very low dead space

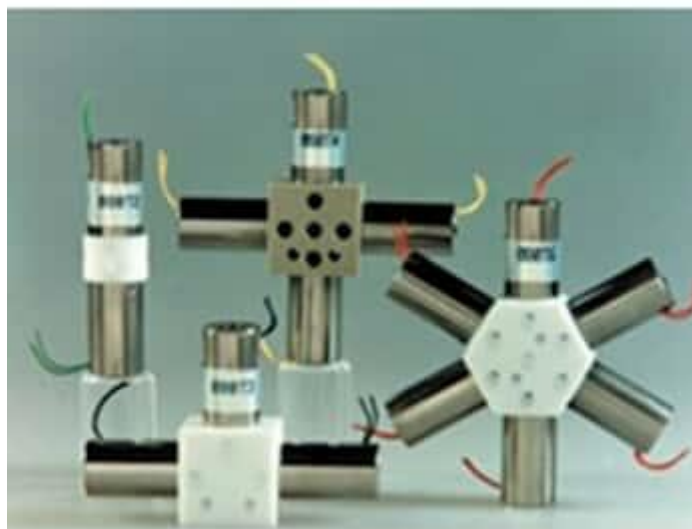
Easily dispense precise, repeatable volume using solenoid operated isolation valves. Valves feature a diaphragm that separates the flow path from the operating mechanism ensuring an inert fluid path. Specifically designed to fit in tight spaces, compact valves are great for placing within instruments. Small overall size helps keep the dead volume to a minimum. Fast response time of less than 20 ms ensures flow can be turned on or off in an instant.

item	Flow Pattern	Orifice (mm)	Power (VDC)
 EW-12021-45	2-way, normally closed	0.8128	12
 EW-12021-46	2-way, normally closed	0.8128	24
 EW-12021-47	2-way, normally closed	1.5748	24

item	Flow Pattern	Orifice (mm)	Power (VDC)
 EW-12021-51	3-way	1.1684	24
 EW-12021-86	2-way, normally closed	1.5748	12
 EW-12021-87	2-way, normally closed	3.175	24
 EW-12021-88	2-way, normally closed	1.5748	24

item	Flow Pattern	Orifice (mm)	Power (VDC)
 EW-12021-90	2-way, normally open	1.5748	24
 EW-12021-92	3-way	1.5748	24
 EW-12021-93	3-way	1.5748	24

# Cole-Parmer® VapLock™ Mixing Valves




Chemical-resistant materials allow for mixing of harsh fluids

- High efficiency solenoid
- Valve life above 2 million cycles
- Chemical-resistant PTFE or PEEK body with PTFE diaphragm
- Low power requirement and minimal heat generation
- Maximum operating pressure of 20 psi

These normally closed solenoid mixing valves feature low power consumption, minimal dead volume, and fast response time for all your mixing needs. All valves come with 15" (26 gauge) PTFE-coated lead wires.

When used as flow mixing devices, the flow from the inlets can be mixed together into a single stream under many different conditions. Each inlet can be selected individually. Any combination of inlets can be selected which results in the outlet being a mixture of the chosen inlets. Outlet composition will depend on pressure and fluid viscosity in each stream.

When the flow pattern is reversed, you can divert flow from a common port to one or multiple outlets. In flow selection applications, the common inlet is diverted to one of the available outlets. For stream splitting, the common inlet is split between the available outlets in a fixed or adjustable percentage. The split can be controlled from one outlet up to the maximum number of outlets in that valve.

item	Description	Flow Pattern	Housing Material
 EW-12021-52	Mixing Valve, 2-Position, 0.062" Orifice, PTFE Body and Diaphragm, 12 VDC	2 positions	PTFE


item	Description	Flow Pattern	Housing Material
 EW-12021-54	Mixing Valve, 2-Position, 0.062" Orifice, PTFE Body and Diaphragm, 24 VDC	2 positions	PTFE
 EW-12021-56	Mixing Valve, 4-Position, 0.062" Orifice, PTFE Body and Diaphragm, 12 VDC	4 positions	PTFE
 EW-12021-58	Mixing Valve, 4-Position, 0.062" Orifice, PTFE Body and Diaphragm, 24 VDC	4 positions	PTFE
 EW-12021-59	Mixing Valve, 6-Position, 0.032" Orifice, PTFE Body and Diaphragm, 24 VDC	6 positions	PTFE


# Cole-Parmer® VapLock™ Solenoid-Operated Isolation Valves



Ideal for use with highly aggressive or high-purity media

- Inert flow path separated from actuator by a diaphragm  
These isolation valves offer an inert, nonmetallic flow path with a solenoid actuator separated from the fluid path by a flexible diaphragm. Valves are easy to install and are coupled with low internal volume and precise flow control. Suitable for highly aggressive or high-purity media you may encounter in analytical chemistry applications. Life expectancy is 20,000,000 cycles.
- 

item	Connection Type	Housing Material	Power (VDC)
 EW-12021-19	Bottom mounted ports, 1/4" - 28 UNF	PEEK	24

item	Connection Type	Housing Material	Power (VDC)
 EW-12021-20	Side mounted ports, 1/4" - 28 UNF	PPS	24

## Cole-Parmer® VapLock™ Solenoid-Operated 2- and 3-Way Pinch Valves



Open and close tubing to control fluid flow with minimal pressure drop

- Quickly and easily change tubing between operation
- No dead volume inside the valve
- Unobstructed flow path—resists damage from particulates and easy to sterilize
- Includes C-Flex® or silicone tubing

Solenoid-operated pinch valves open and close tubing to achieve controlled fluid flow. Since tubing is the only wetted part there is no dead volume and no obstruction in the flow path. Simply change the tubing when needed. Two-way valves are available in normally open or normally closed configurations. Three-way valves feature both a normally open and a normally closed flow path, which are operated simultaneously.




Designed for durability, valves last for a minimum 2 million open-and-close cycles and can remain in the fully energized state indefinitely without damage to the valve or tubing. PPS plunger and ASA/PC body material





provide chemical resistance.





Valves are available with either C-Flex or platinum-cured silicone tubing. Both withstand the rigors of usage with pinch valves, will not stick even after prolonged closure, and are easily sterilizable. Tubing are rated for over 300,000 cycles. All two-way valves come with one 12"L tubing already in place. Three-way valves include two 6"L tubing joined by a Y connector.





†Low noise models 12021-25 and 12021-30 reduce the valve noise level from about 72 dB (A) to less than 50 dB (A).





‡Model 12021-40 features threaded mounting holes on the bottom of the valve body.





item	Flow Pattern	Pinch Valve Tube Size	Power (VDC)
 EW-12021-23	Two way, normally closed	1/32" ID x 3/32" OD	12
 EW-12021-24	Two way, normally closed	1/16" ID x 1/8" OD	12
 EW-12021-25	Two way, normally closed	1/16" ID x 1/8" OD	12



item	Flow Pattern	Pinch Valve Tube Size	Power (VDC)
 EW-12021-28	Two way, normally closed	1/32" ID x 3/32" OD	24
 EW-12021-29	Two way, normally closed	1/16" ID x 1/8" OD	24
 EW-12021-30	Two way, normally closed	1/16" ID x 1/8" OD	24
 EW-12021-31	Two way, normally closed	0.023" ID x 0.093" OD	24

item	Flow Pattern	Pinch Valve Tube Size	Power (VDC)
 EW-12021-32	Two way, normally closed	1/20" ID x 0.134" OD	24
 EW-12021-33	Two way, normally open	1/32" ID x 3/32" OD	12
 EW-12021-35	Two way, normally open	1/16" ID x 1/8" OD	12
 EW-12021-36	Two way, normally open	1/32" ID x 3/32" OD	24

item	Flow Pattern	Pinch Valve Tube Size	Power (VDC)
 EW-12021-37	Two way, normally open	1/16" ID x 1/8" OD	24
 EW-12021-39	Three way, one port normally open, other normally closed	1/32" ID x 3/32" OD	12
 EW-12021-40	Three way, one port normally open, other normally closed	1/32" ID x 3/32" OD	12
 EW-12021-43	Three way, one port normally open, other normally closed	1/32" ID x 3/32" OD	24

item	Flow Pattern	Pinch Valve Tube Size	Power (VDC)
 EW-12021-68	2-way, normally closed	1/16" ID x 1/8" OD	12
 EW-12021-69	2-way, normally closed	1/16" ID x 3/16" OD	12
 EW-12021-71	2-way, normally closed	1/8" ID x 1/4" OD	12
 EW-12021-72	2-way, normally closed	1/16" ID x 1/8" OD	24

item	Flow Pattern	Pinch Valve Tube Size	Power (VDC)
 EW-12021-76	2-way, normally closed	1/8" ID x 1/4" OD	24
 EW-12021-77	2-way, normally open	1/16" ID x 3/16" OD	12
 EW-12021-78	2-way, normally open	1/8" ID x 1/4" OD	12
 EW-12021-80	3-way	1/16" ID x 1/8" OD	12

item	Flow Pattern	Pinch Valve Tube Size	Power (VDC)
 EW-12021-83	3-way	1/8" ID x 1/4" OD	12
 EW-12021-85	3-way	1/8" ID x 1/4" OD	24

# Sanitary Fittings

## Polypropylene

**Cole-Parmer®**  
an antylla scientific company



### Before Choosing a Fixture, Consider the Following

Sanitary fittings are crafted to prevent contamination, ensuring the highest standards of purity and reliability in fluid handling systems. A sanitary fitting consists of three key components: two fittings, a gasket, and a clamp. The gasket is placed between the two fittings, and the clamp holds the assembly together. This design provides a highly sanitary connection that is easy to assemble and disassemble, making it perfect for processes requiring regular maintenance and cleaning.

These single-use polypropylene sanitary fittings are ideal for applications where metal is incompatible. Smooth inner surface and seamless construction prevent particle entrapment, eliminating potential bacterial growth.

### CERTIFICATION

ASME-BPE, USP Class VI, and FDA compliant

### FITTINGS BY TYPE – GENERAL OVERVIEW



90° Elbow



Straight



Tee



Y

### APPLICATIONS

- Meet U.S. and EU standards for use in pharmaceutical process applications
- Ideal for cell culture media, aseptic fill and transfer, and sterile filling

### FEATURES/BENEFITS

- High-quality nonmetallic sanitary fittings for critical fluid applications
- No sharp internal angles—protects sensitive samples and minimizes turbulence
- Compatible with Tri-Clamp® fittings
- Wide temperature range of 0 to 135 °C (32 to 275 °F)
- Sterilize by autoclave, EtO, or gamma irradiation
- Free technical application support available to assist with tubing selection

## Sanitary Fitting Types Overview

### Straight Concentric Reducer

- Seamlessly connect two different sanitary connection sizes
- Minimize flow disruption with straight flow path
- Concentric design provides an even flow transition between different pipe sizes, improving overall system efficiency

### Straight Sanitary x Hose Barb Adapter

- Easily transition from sanitary fitting to flexible tubing
- Straight monobarb design ensures a secure tubing connection with minimal flow turbulence

### 90° Elbow Union Connector

- Redirect your flow or fit in tight spaces with a 90° bend
- Ensure smooth flow with two equal connection sizes

### Tee Union Connector

- Combine or split flow with three equal connection sizes
- Ideal for complex piping systems requiring multiple flow directions

## Specification and Ordering Table

Brand	Dimensions: in. (mm)	Type	Item Number	Pack Size
Cole-Parmer	1" × 3/4" mini	Straight Concentric Reducer	<a href="#">50118-92</a>	1/Ea
	1-1/2" × 3/4" mini	Straight Concentric Reducer	<a href="#">50118-93</a>	1/Ea
	2" × 3/4" mini	Straight Concentric Reducer	<a href="#">50118-94</a>	1/Ea
	3" × 3/4" mini	Straight Concentric Reducer	<a href="#">50118-95</a>	1/Ea
	1-1/2" × 1"	Straight Concentric Reducer	<a href="#">50118-96</a>	1/Ea
	2" × 1"	Straight Concentric Reducer	<a href="#">50118-97</a>	1/Ea
	3" × 1"	Straight Concentric Reducer	<a href="#">50118-98</a>	1/Ea
	2" × 1-1/2"	Straight Concentric Reducer	<a href="#">50118-99</a>	1/Ea
	3" × 1-1/2"	Straight Concentric Reducer	<a href="#">50119-00</a>	1/Ea
	3/4" mini × 1/8" (3.2)	Sanitary x Hose Barb ID	<a href="#">50119-01</a>	1/Ea
	3/4" mini × 3/16" (1.8)	Sanitary x Hose Barb ID	<a href="#">50119-02</a>	1/Ea
	3/4" mini × 1/4" (6.4)	Sanitary x Hose Barb ID	<a href="#">50119-03</a>	1/Ea
	3/4" mini × 3/8" (9.5)	Sanitary x Hose Barb ID	<a href="#">50119-04</a>	1/Ea
	3/4" mini × 1/2" (12.7)	Sanitary x Hose Barb ID	<a href="#">50119-05</a>	1/Ea
	1-1/2" × 1/4" (6.4)	Sanitary x Hose Barb ID	<a href="#">50119-06</a>	1/Ea
	1-1/2" × 3/8" (9.5)	Sanitary x Hose Barb ID	<a href="#">50119-07</a>	1/Ea
	1-1/2" × 1/2" (12.7)	Sanitary x Hose Barb ID	<a href="#">50119-08</a>	1/Ea
	1-1/2" × 3/4" (19.1)	Sanitary x Hose Barb ID	<a href="#">50119-09</a>	1/Ea
	1-1/2" × 1" (25.4)	Sanitary x Hose Barb ID	<a href="#">50119-10</a>	1/Ea
	3/4" (19.1)	90° Elbow Union	<a href="#">50118-89</a>	1/Ea
	1" (25.4)	90° Elbow Union	<a href="#">50118-90</a>	1/Ea
	1-1/2" (38.1)	90° Elbow Union	<a href="#">50118-91</a>	1/Ea
	3/4" (19.1)	Tee Union	<a href="#">50118-86</a>	1/Ea
	1" (25.4)	Tee Union	<a href="#">50118-87</a>	1/Ea
	1-1/2" (38.1)	Tee Union	<a href="#">50118-88</a>	1/Ea

# Sanitary Fittings

## 316L Stainless Steel

**Cole-Parmer®**  
an antylla scientific company



### Before Choosing a Fixture, Consider the Following

Sanitary fittings are crafted to prevent contamination, ensuring the highest standards of purity and reliability in fluid handling systems. A sanitary fitting consists of three key components: two fittings, a gasket, and a clamp. The gasket is placed between the two fittings, and the clamp holds the assembly together. This design provides a highly sanitary connection that is easy to assemble and disassemble, making it perfect for processes requiring regular maintenance and cleaning.

316L stainless steel sanitary fittings provide excellent chemical compatibility and corrosion resistance while offering a leakproof connection. Easily remove to clean or use Clean-in-Place (CIP) process to reduce the chances of dirt and bacteria contaminating the process.

### APPLICATIONS

- Great for food, beverage, and dairy applications
- Ideal for general-purpose, laboratory, and single-use applications

### FEATURES/BENEFITS

- 316L stainless steel offers excellent chemical resistance against corrosive acids and bases
- Compatible with Tri-Clamp® fittings
- Free technical application support available to assist with tubing selection

### FITTINGS BY TYPE – GENERAL OVERVIEW



USA	+1.800.323.4340	German speaker	+49 (0) 937 792030
	+1.847.549.7600	India	+1.800.266.1244
Canada	+1.800.363.5900	Italy	+39.02.84349215
China	86.21.5109.9909	UK	+44 (0) 1480.272279
French speaker	+33 (0) 1 87 17 01 42	All others	+1.847.549.7600

## Sanitary Fitting Types Overview

### Straight Concentric Reducer

- Seamlessly connect two different sanitary connection sizes
- Concentric design provides an even flow due to the centerline alignment

### Straight Eccentric Reducer

- Offset centerline and flat side provide a horizontal line for proper drainage and prevent air bubbles
- Maintain the same top or bottom level with different connection sizes

### Straight Sanitary x Hose Barb Adapter

- Easily transition from sanitary fitting to flexible tubing
- Straight design ensures a secure tubing connection with minimal flow turbulence

### Straight Sanitary x Threaded NPT(M) Adapter

- Join a sanitary fitting to a threaded pipe using the NPT(M) thread connection
- Perfect for connecting a sanitary system to threaded equipment

### 45° Elbow Union

- Gently change flow direction with a 45° angled fitting
- Great for tight spaces of equal connection sizes

### 90° Elbow Union

- Redirect your flow or fit in tight spaces with a 90° bend
- Ensure smooth flow with two equal connection sizes

### Tee Union

- Combine or split flow with three equal connection sizes
- Ideal for complex piping systems requiring multiple flow directions

### Cross Union

- Four equal connection sizes to combine or split fluid flow
- Suitable for systems distributing flow to multiple points

## Specification and Ordering Table

Brand	Dimensions: in. (mm)	Type	Item Number	Pack Size
Cole-Parmer	1" × 3/4" mini	Straight Concentric Reducer	<a href="#">50118-00</a>	1/Ea
	1-1/2" × 1"	Straight Concentric Reducer	<a href="#">50118-01</a>	1/Ea
	2" × 1"	Straight Concentric Reducer	<a href="#">50118-02</a>	1/Ea
	2" × 1-1/2"	Straight Concentric Reducer	<a href="#">50118-03</a>	1/Ea
	1" × 3/4" mini	Straight Eccentric Reducer	<a href="#">50118-04</a>	1/Ea
	1-1/2" × 1"	Straight Eccentric Reducer	<a href="#">50118-05</a>	1/Ea
	2" × 1"	Straight Eccentric Reducer	<a href="#">50118-06</a>	1/Ea
	3/4" mini × 1/8" (3.2)	Sanitary x Hose Barb ID	<a href="#">50118-07</a>	1/Ea
	3/4" mini × 1/4" (6.4)	Sanitary x Hose Barb ID	<a href="#">50118-08</a>	1/Ea
	3/4" mini × 3/8" (9.5)	Sanitary x Hose Barb ID	<a href="#">50118-09</a>	1/Ea
	3/4" mini × 1/2" (12.7)	Sanitary x Hose Barb ID	<a href="#">50118-10</a>	1/Ea
	3/4" mini × 3/4" (19.1)	Sanitary x Hose Barb ID	<a href="#">50118-11</a>	1/Ea
	1" × 1" (25.4)	Sanitary x Hose Barb ID	<a href="#">50118-12</a>	1/Ea
	1-1/2" × 1-1/2" (38.1)	Sanitary x Hose Barb ID	<a href="#">50118-13</a>	1/Ea
	2" × 2" (50.8)	Sanitary x Hose Barb ID	<a href="#">50118-14</a>	1/Ea
	3/4" mini × 1/8"	Sanitary x Threaded NPT(M)	<a href="#">50118-15</a>	1/Ea

## Specification and Ordering Table

Brand	Dimensions: in. (mm)	Type	Item Number	Pack Size
Cole-Parmer	3/4" mini × 1/4"	Sanitary x Threaded NPT(M)	<a href="#">50118-16</a>	1/Ea
	3/4" mini × 3/8"	Sanitary x Threaded NPT(M)	<a href="#">50118-17</a>	1/Ea
	3/4" mini × 1/2"	Sanitary x Threaded NPT(M)	<a href="#">50118-18</a>	1/Ea
	3/4" mini × 3/4"	Sanitary x Threaded NPT(M)	<a href="#">50118-19</a>	1/Ea
	1" × 3/4"	Sanitary x Threaded NPT(M)	<a href="#">50118-20</a>	1/Ea
	1" × 1"	Sanitary x Threaded NPT(M)	<a href="#">50118-21</a>	1/Ea
	1" × 1-1/2"	Sanitary x Threaded NPT(M)	<a href="#">50118-22</a>	1/Ea
	1-1/2" × 3/4"	Sanitary x Threaded NPT(M)	<a href="#">50118-23</a>	1/Ea
	1-1/2" × 1"	Sanitary x Threaded NPT(M)	<a href="#">50118-24</a>	1/Ea
	1-1/2" × 1-1/4"	Sanitary x Threaded NPT(M)	<a href="#">50118-25</a>	1/Ea
	1-1/2" × 1-1/2"	Sanitary x Threaded NPT(M)	<a href="#">50118-26</a>	1/Ea
	3/4" (19.1)	45° Elbow Union	<a href="#">50118-31</a>	1/Ea
	1" (25.4)	45° Elbow Union	<a href="#">50118-32</a>	1/Ea
	1-1/2" (38.1)	45° Elbow Union	<a href="#">50118-33</a>	1/Ea
	2" (50.8)	45° Elbow Union	<a href="#">50118-34</a>	1/Ea
	3/4" (19.1)	90° Elbow Union	<a href="#">50118-27</a>	1/Ea
	1" (25.4)	90° Elbow Union	<a href="#">50118-28</a>	1/Ea
	1-1/2" (38.1)	90° Elbow Union	<a href="#">50118-29</a>	1/Ea
	2" (50.8)	90° Elbow Union	<a href="#">50118-30</a>	1/Ea
	3/4" (19.1)	Tee Union	<a href="#">50118-35</a>	1/Ea
	1" (25.4)	Tee Union	<a href="#">50118-36</a>	1/Ea
	1-1/2" (38.1)	Tee Union	<a href="#">50118-37</a>	1/Ea
	2" (50.8)	Tee Union	<a href="#">50118-38</a>	1/Ea
	1" (25.4)	Cross Union	<a href="#">50118-39</a>	1/Ea
	1-1/2" (38.1)	Cross Union	<a href="#">50118-40</a>	1/Ea
	2" (50.8)	Cross Union	<a href="#">50118-41</a>	1/Ea

# Hose Barb Fittings

## Straight Union



### Before Choosing a Fixture, Consider the Following

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi).

Barbed connectors are most effective when paired with flexible tubing like silicone, whereas compression fittings are suited for use with rigid tubing such as PTFE or polypropylene.

When temperature and pressure are essential, ensure that the fittings you select are suitable for your operating conditions. It's important to note that most fittings cannot operate at their maximum temperature and maximum pressure ratings simultaneously.

Use these high-quality PVC-free fittings in biomedical, pharmaceutical, electronic, and other critical-use applications.

### APPLICATIONS

- Bioprocess, life science, and pharmaceutical industries
- General-purpose, laboratory, and single-use applications to connect tubing with the rest of your system

### FEATURES/BENEFITS

- Free technical application support available to determine which connector type is needed for your application
- Quick and easy assembly without tools
- Single barb design tightly “grips” the tubing

## Materials

### PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -62 to 129 °C (-80 to 265 °F)
- Sterilize by ethylene oxide or autoclave

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.

### Polypropylene (PP)

- Very good chemical resistance
- Temperature range: -13 to 66 °C (9 to 180 °F)
- Sterilize by ethylene oxide or gamma irradiation

Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

### Nylon

- Good chemical resistance
- Temperature range: -46 to 121 °C (-50 to 250 °F)
- Sterilize by ethylene oxide only

Nylon is resistant to various chemicals, especially aliphatic and aromatic hydrocarbons, alkalis, greases, fuels, lubricants, and ketones.

### High-Density Polyethylene (HDPE)

- Good chemical resistance
- Temperature range: -53 to 65 °C (65 to 150 °F)
- Sterilize by ethylene oxide only

Polyethylene is an inert plastic and is not subject to attack by most chemicals. However, those substances that do attack the polyethylene may still be “packageable” under certain conditions. Generally, high-density polyethylene is more chemically resistant than low-density.



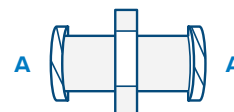
Straight



Barbed



Straight Adapter – Male



Straight Adapter – Female

## Specification and Ordering Table

Tubing ID dimensions (A)	Material	Item number	Pack size
3/32"	Nylon	50108-09	10/Pk
3/32"	Natural Kynar®	50108-10	10/Pk
3/32"	Polypropylene	50108-11	10/Pk
5/8"	Nylon	50108-12	10/Pk
5/8"	Natural Kynar®	50108-13	10/Pk
5/8"	Polypropylene	50108-14	10/Pk
1/16"	Nylon	50108-15	10/Pk
1/16"	Natural Kynar®	50108-16	10/Pk
1/16"	Natural Nylon	50108-17	10/Pk
1/16"	Polypropylene	50108-18	10/Pk
3/4"	Natural Kynar®	50108-19	10/Pk
3/4"	Polypropylene	50108-20	10/Pk
1"	Natural Kynar®	50108-21	10/Pk
1"	Polypropylene	50108-22	10/Pk
Oversized 1"	Polypropylene	50108-23	10/Pk
5/32"	Nylon	50108-24	10/Pk
5/32"	Natural Kynar®	50108-25	10/Pk
5/32"	Polypropylene	50108-26	10/Pk
1/8"	Nylon	50108-27	10/Pk
1/8"	Natural Kynar®	50108-28	10/Pk
1/8"	Polypropylene	50108-29	10/Pk
3/16"	Nylon	50108-31	10/Pk
3/16"	Natural Kynar®	50108-32	10/Pk
3/16"	Polypropylene	50108-33	10/Pk
1/4"	Nylon	50108-34	10/Pk
1/4"	Natural Kynar®	50108-35	10/Pk
1/4"	Polypropylene	50108-36	10/Pk
5/16"	Natural Kynar®	50108-37	10/Pk
5/16"	Polypropylene	50108-38	10/Pk
3/8"	HDPE	50108-39	10/Pk
3/8"	Nylon	50108-40	10/Pk
3/8"	Natural Kynar®	50108-41	10/Pk
3/8"	Natural Nylon	50108-42	10/Pk
3/8"	Polypropylene	50108-43	10/Pk
1/2"	Natural Kynar®	50108-44	10/Pk
1/2"	Natural Nylon	50108-45	10/Pk
1/2"	Polypropylene	50108-46	10/Pk

# Luer to Hose Barb Fittings

## Straight Adapters



### Before Choosing a Fitting, Consider the Following

Barbed connectors are most effective when paired with flexible tubing like silicone, whereas compression fittings are suited for use with rigid tubing such as PTFE or polypropylene.

When material compatibility is essential, fluids that do not mesh well with fitting materials can lead to leaks or harm to the system. For extremely corrosive fluids, PTFE fittings are the optimal choice.

When temperature and pressure are essential, ensure that the fittings you select are suitable for your operating conditions. It's important to note that most fittings cannot operate at their maximum temperature and maximum pressure ratings simultaneously.

Use these high-quality PVC-free fittings in biomedical, pharmaceutical, electronic, and other critical-use applications.

### APPLICATIONS

- Bioprocess, life science, and pharmaceutical industries
- General-purpose, laboratory, and single-use applications to connect tubing with the rest of your system

### FEATURES/BENEFITS

- Free technical application support available to determine which connector type is needed for your application
- Quick and easy assembly without tools
- Forms a leak-free luer connection with a quick simple turn
- Single barb design tightly “grips” the tubing
- Natural Kynar® is biopharma compatible and USP 661 and BPOG compliant
- Polypropylene (PP) meets FDA requirements 21 CFR 177.1520(a)(3)(i) and (c)3.1a and RoHS compliant
- Nylon – FDA and RoHS compliant
- CrystalVU™ – adheres to standards including USP Class VI and EU 2002/72/EC regulations

## Materials

### PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -62 to 129 °C (-80 to 265 °F)
- Sterilize by ethylene oxide or autoclave

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.



Barbed

### Polypropylene (PP)

- Very good chemical resistance
- Temperature range: -13 to 66 °C (9 to 180 °F)
- Sterilize by ethylene oxide or gamma irradiation

Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

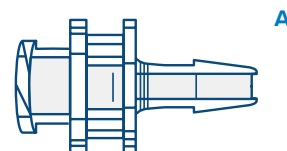


Barbed

### Nylon

- Good chemical resistance
- Temperature range: -46 to 121 °C (-50 to 250 °F)
- Sterilize by ethylene oxide only

Nylon is resistant to various chemicals, especially aliphatic and aromatic hydrocarbons, alkalis, greases, fuels, lubricants, and ketones.



Luer to Hose Barb

### CrystalVu™

- Good chemical resistance

A transparent alternative to polycarbonate that is free from Bisphenol-A (BPA), maintaining its clarity and structure even at temperatures up to 180 °C. This alternative is autoclavable and boasts improved features compared to polycarbonate, such as superior chemical resistance and resilience against deformation after multiple autoclave cycles, gamma, and EtO sterilization.

## Specification and Ordering Table

Tubing ID dimensions (A)	Material	Type	Item number	Pack size
Large Bore Female Luer x 3/16"	CrystalVu™	Straight Adapter	50109-26	10/pk
Large Bore Female Luer x 3/16"	Nylon	Straight Adapter	50109-27	10/pk
Large Bore Female Luer x 3/16"	Natural Kynar®	Straight Adapter	50109-28	10/pk
Large Bore Female Luer x 3/16"	Natural Nylon	Straight Adapter	50109-29	10/pk
Large Bore Female Luer x 3/16"	Polypropylene	Straight Adapter	50109-30	10/pk
Large Bore Female Luer x 1/4"	CrystalVu™	Straight Adapter	50109-31	10/pk
Large Bore Female Luer x 1/4"	Nylon	Straight Adapter	50109-32	10/pk
Large Bore Female Luer x 1/4"	Natural Kynar®	Straight Adapter	50109-33	10/pk
Large Bore Female Luer x 1/4"	Natural Nylon	Straight Adapter	50109-34	10/pk
Large Bore Female Luer x 1/4"	Polypropylene	Straight Adapter	50109-35	10/pk
Large Bore Female Luer x 5/16"	CrystalVu™	Straight Adapter	50109-36	10/pk
Large Bore Female Luer x 5/16"	Nylon	Straight Adapter	50109-37	10/pk
Large Bore Female Luer x 5/16"	Natural Kynar®	Straight Adapter	50109-38	10/pk
Large Bore Female Luer x 5/16"	Natural Nylon	Straight Adapter	50109-39	10/pk
Large Bore Female Luer x 5/16"	Polypropylene	Straight Adapter	50109-40	10/pk
Large Bore Male Luer x 3/16"	CrystalVu™	Straight Adapter	50109-51	10/pk
Large Bore Male Luer x 3/16"	Nylon	Straight Adapter	50109-52	10/pk
Large Bore Male Luer x 3/16"	Natural Kynar®	Straight Adapter	50109-53	10/pk
Large Bore Male Luer x 3/16"	Natural Nylon	Straight Adapter	50109-54	10/pk
Large Bore Male Luer x 3/16"	Polypropylene	Straight Adapter	50109-55	10/pk
Large Bore Male Luer x 1/4"	CrystalVu™	Straight Adapter	50109-56	10/pk
Large Bore Male Luer x 1/4"	Nylon	Straight Adapter	50109-57	10/pk
Large Bore Male Luer x 1/4"	Natural Kynar®	Straight Adapter	50109-58	10/pk
Large Bore Male Luer x 1/4"	Natural Nylon	Straight Adapter	50109-59	10/pk
Large Bore Male Luer x 1/4"	Polypropylene	Straight Adapter	50109-60	10/pk
Large Bore Male Luer x 5/16"	CrystalVu™	Straight Adapter	50109-61	10/pk
Large Bore Male Luer x 5/16"	Nylon	Straight Adapter	50109-62	10/pk
Large Bore Male Luer x 5/16"	Natural Kynar®	Straight Adapter	50109-63	10/pk
Large Bore Male Luer x 5/16"	Natural Nylon	Straight Adapter	50109-64	10/pk
Large Bore Male Luer x 5/16"	Polypropylene	Straight Adapter	50109-65	10/pk
Female Luer x 3/32"	CrystalVu™	Straight Adapter	50109-66	10/pk
Female Luer x 3/32"	Nylon	Straight Adapter	50109-67	10/pk
Female Luer x 3/32"	Natural Kynar®	Straight Adapter	50109-68	10/pk
Female Luer x 3/32"	Natural Nylon	Straight Adapter	50109-69	10/pk
Female Luer x 3/32"	Polypropylene	Straight Adapter	50109-70	10/pk

Tubing ID dimensions (A)	Material	Type	Item number	Pack size
Female Luer x 1/16"	CrystalVu™	Straight Adapter	50109-71	10/pk
Female Luer x 1/16"	Nylon	Straight Adapter	50109-72	10/pk
Female Luer x 1/16"	Natural Kynar®	Straight Adapter	50109-73	10/pk
Female Luer x 1/16"	Natural Nylon	Straight Adapter	50109-74	10/pk
Female Luer x 1/16"	Polypropylene	Straight Adapter	50109-75	10/pk
Female Luer x 5/32"	CrystalVu™	Straight Adapter	50109-76	10/pk
Female Luer x 5/32"	Nylon	Straight Adapter	50109-77	10/pk
Female Luer x 5/32"	Natural Kynar®	Straight Adapter	50109-78	10/pk
Female Luer x 5/32"	Natural Nylon	Straight Adapter	50109-79	10/pk
Female Luer x 5/32"	Polypropylene	Straight Adapter	50109-80	10/pk
Female Luer x 1/8"	CrystalVu™	Straight Adapter	50109-81	10/pk
Female Luer x 1/8"	Nylon	Straight Adapter	50109-82	10/pk
Female Luer x 1/8"	Natural Kynar®	Straight Adapter	50109-83	10/pk
Female Luer x 1/8"	Natural Nylon	Straight Adapter	50109-84	10/pk
Female Luer x 1/8"	Polypropylene	Straight Adapter	50109-85	10/pk
Female Luer x 3/16"	CrystalVu™	Straight Adapter	50109-86	10/pk
Female Luer x 3/16"	Nylon	Straight Adapter	50109-87	10/pk
Female Luer x 3/16"	Natural Kynar®	Straight Adapter	50109-88	10/pk
Female Luer x 3/16"	Natural Nylon	Straight Adapter	50109-89	10/pk
Female Luer x 3/16"	Polypropylene	Straight Adapter	50109-90	10/pk
Female Luer x 1/4"	CrystalVu™	Straight Adapter	50109-91	10/pk
Female Luer x 1/4"	Nylon	Straight Adapter	50109-92	10/pk
Female Luer x 1/4"	Natural Kynar®	Straight Adapter	50109-93	10/pk
Female Luer x 1/4"	Natural Nylon	Straight Adapter	50109-94	10/pk
Female Luer x 1/4"	Polypropylene	Straight Adapter	50109-95	10/pk
Panel Mount Female Luer x 3/32"	CrystalVu™	Straight Adapter	50114-26	10/pk
Panel Mount Female Luer x 3/32"	Nylon	Straight Adapter	50115-69	10/pk
Panel Mount Female Luer x 3/32"	Natural Nylon	Straight Adapter	50114-29	10/pk
Panel Mount Female Luer x 3/32"	Polypropylene	Straight Adapter	50114-31	10/pk
Panel Mount Female Luer x 1/16"	CrystalVu™	Straight Adapter	50114-27	10/pk
Panel Mount Female Luer x 1/16"	Nylon	Straight Adapter	50115-70	10/pk
Panel Mount Female Luer x 1/16"	Polypropylene	Straight Adapter	50114-32	10/pk
Panel Mount Female Luer x 1/8"	CrystalVu™	Straight Adapter	50114-28	10/pk
Panel Mount Female Luer x 1/8"	Nylon	Straight Adapter	50115-71	10/pk
Panel Mount Female Luer x 1/8"	Natural Kynar®	Straight Adapter	50114-34	10/pk
Panel Mount Female Luer x 1/8"	Natural Nylon	Straight Adapter	50114-30	10/pk

Tubing ID dimensions (A)	Material	Type	Item number	Pack size
Panel Mount Female Luer x 1/8"	Polypropylene	Straight Adapter	50114-33	10/pk
Panel Mount Female Luer x 1/8"	White Nylon	Straight Adapter	50114-35	10/pk
Male Luer x 3/32"	CrystalVu™	Straight Adapter	50110-02	10/pk
Male Luer x 3/32"	Nylon	Straight Adapter	50110-03	10/pk
Male Luer x 3/32"	Natural Kynar®	Straight Adapter	50110-04	10/pk
Male Luer x 3/32"	Natural Nylon	Straight Adapter	50110-05	10/pk
Male Luer x 3/32"	Polypropylene	Straight Adapter	50110-06	10/pk
Male Luer x 1/16"	CrystalVu™	Straight Adapter	50110-07	10/pk
Male Luer x 1/16"	Nylon	Straight Adapter	50110-08	10/pk
Male Luer x 1/16"	Natural Kynar®	Straight Adapter	50110-09	10/pk
Male Luer x 1/16"	Natural Nylon	Straight Adapter	50110-10	10/pk
Male Luer x 1/16"	Polypropylene	Straight Adapter	50110-11	10/pk
Male Luer x 5/32"	CrystalVu™	Straight Adapter	50110-12	10/pk
Male Luer x 5/32"	Nylon	Straight Adapter	50110-13	10/pk
Male Luer x 5/32"	Natural Kynar®	Straight Adapter	50110-14	10/pk
Male Luer x 5/32"	Natural Nylon	Straight Adapter	50110-15	10/pk
Male Luer x 5/32"	Polypropylene	Straight Adapter	50110-16	10/pk
Male Luer x 1/8"	CrystalVu™	Straight Adapter	50110-17	10/pk
Male Luer x 1/8"	Nylon	Straight Adapter	50110-18	10/pk
Male Luer x 1/8"	Natural Kynar®	Straight Adapter	50110-19	10/pk
Male Luer x 1/8"	Natural Nylon	Straight Adapter	50110-20	10/pk
Male Luer x 1/8"	Polypropylene	Straight Adapter	50110-21	10/pk
Male Luer x 3/16"	CrystalVu™	Straight Adapter	50110-22	10/pk
Male Luer x 3/16"	Nylon	Straight Adapter	50110-23	10/pk
Male Luer x 3/16"	Natural Kynar®	Straight Adapter	50110-24	10/pk
Male Luer x 3/16"	Natural Nylon	Straight Adapter	50110-25	10/pk
Male Luer x 3/16"	Polypropylene	Straight Adapter	50110-26	10/pk
Male Luer x 1/4"	CrystalVu™	Straight Adapter	50110-27	10/pk
Male Luer x 1/4"	Nylon	Straight Adapter	50110-28	10/pk
Male Luer x 1/4"	Natural Kynar®	Straight Adapter	50110-29	10/pk
Male Luer x 1/4"	Natural Nylon	Straight Adapter	50110-30	10/pk
Male Luer x 1/4"	Polypropylene	Straight Adapter	50110-31	10/pk
Rotating Male Luer Lock x 3/32"	CrystalVu™	Straight Adapter	50114-36	10/pk
Rotating Male Luer Lock x 3/32"	Nylon	Straight Adapter	50115-06	10/pk
Rotating Male Luer Lock x 3/32"	Polypropylene	Straight Adapter	50114-54	10/pk
Rotating Male Luer Lock x 1/16"	CrystalVu™	Straight Adapter	50114-37	10/pk

Tubing ID dimensions (A)	Material	Type	Item number	Pack size
Rotating Male Luer Lock x 1/16"	Nylon	Straight Adapter	50115-07	10/pk
Rotating Male Luer Lock x 1/16"	Polypropylene	Straight Adapter	50114-55	10/pk
Rotating Male Luer Lock x 5/32"	CrystalVu™	Straight Adapter	50114-38	10/pk
Rotating Male Luer Lock x 5/32"	Nylon	Straight Adapter	50115-08	10/pk
Rotating Male Luer Lock x 5/32"	Polypropylene	Straight Adapter	50114-56	10/pk
Rotating Male Luer Lock x 1/8"	CrystalVu™	Straight Adapter	50114-39	10/pk
Rotating Male Luer Lock x 1/8"	Nylon	Straight Adapter	50115-09	10/pk
Rotating Male Luer Lock x 1/8"	Polypropylene	Straight Adapter	50114-57	10/pk
Rotating Male Luer Lock x 3/16"	CrystalVu™	Straight Adapter	50114-40	10/pk
Rotating Male Luer Lock x 3/16"	Nylon	Straight Adapter	50115-10	10/pk
Rotating Male Luer Lock x 3/16"	Polypropylene	Straight Adapter	50114-58	10/pk
Rotating Male Luer Lock x 1/4"	CrystalVu™	Straight Adapter	50114-41	10/pk
Rotating Male Luer Lock x 1/4"	Nylon	Straight Adapter	50115-11	10/pk
Rotating Male Luer Lock x 1/4"	Polypropylene	Straight Adapter	50114-59	10/pk
Male Slip Luer x 3/32"	CrystalVu™	Straight Adapter	50114-42	10/pk
Male Slip Luer x 3/32"	Medical Nylon	Straight Adapter	50115-31	10/pk
Male Slip Luer x 3/32"	Natural Kynar 740	Straight Adapter	50114-86	10/pk
Male Slip Luer x 3/32"	Natural Nylon	Straight Adapter	50115-12	10/pk
Male Slip Luer x 3/32"	Non Animal Derived Natural Polypropylene	Straight Adapter	50114-60	10/pk
Male Slip Luer x 1/16"	CrystalVu™	Straight Adapter	50114-43	10/pk
Male Slip Luer x 1/16"	Medical Nylon	Straight Adapter	50115-32	10/pk
Male Slip Luer x 1/16"	Natural Kynar 740	Straight Adapter	50114-87	10/pk
Male Slip Luer x 1/16"	Natural Nylon	Straight Adapter	50115-13	10/pk
Male Slip Luer x 1/16"	Non Animal Derived Natural Polypropylene	Straight Adapter	50114-61	10/pk
Male Slip Luer x 5/32"	CrystalVu™	Straight Adapter	50114-44	10/pk
Male Slip Luer x 5/32"	Medical Nylon	Straight Adapter	50115-33	10/pk
Male Slip Luer x 5/32"	Natural Kynar 740	Straight Adapter	50114-88	10/pk
Male Slip Luer x 5/32"	Natural Nylon	Straight Adapter	50115-14	10/pk
Male Slip Luer x 5/32"	Non Animal Derived Natural Polypropylene	Straight Adapter	50114-62	10/pk
Male Slip Luer x 1/8"	CrystalVu™	Straight Adapter	50114-45	10/pk
Male Slip Luer x 1/8"	Medical Nylon	Straight Adapter	50115-34	10/pk
Male Slip Luer x 1/8"	Natural Kynar 740	Straight Adapter	50114-89	10/pk
Male Slip Luer x 1/8"	Natural Nylon	Straight Adapter	50115-15	10/pk

Tubing ID dimensions (A)	Material	Type	Item number	Pack size
Male Slip Luer x 1/8"	Non Animal Derived Natural Polypropylene	Straight Adapter	50114-63	10/pk
Male Slip Luer x 3/16"	CrystalVu™	Straight Adapter	50114-46	10/pk
Male Slip Luer x 3/16"	Medical Nylon	Straight Adapter	50115-35	10/pk
Male Slip Luer x 3/16"	Natural Kynar 740	Straight Adapter	50114-90	10/pk
Male Slip Luer x 3/16"	Natural Nylon	Straight Adapter	50115-16	10/pk
Male Slip Luer x 3/16"	Non Animal Derived Natural Polypropylene	Straight Adapter	50114-64	10/pk
Male Slip Luer x 1/4"	CrystalVu™	Straight Adapter	50114-47	10/pk
Male Slip Luer x 1/4"	Medical Nylon	Straight Adapter	50115-36	10/pk
Male Slip Luer x 1/4"	Natural Kynar 740	Straight Adapter	50114-91	10/pk
Male Slip Luer x 1/4"	Natural Nylon	Straight Adapter	50115-17	10/pk
Male Slip Luer x 1/4"	Non Animal Derived Natural Polypropylene	Straight Adapter	50114-65	10/pk

# Sanitary Clamps

## 304 Stainless Steel

**Cole-Parmer®**  
an antylia scientific company



### Before Choosing a Fixture, Consider the Following

Sanitary fittings are crafted to prevent contamination, ensuring the highest standards of purity and reliability in fluid handling systems. A sanitary fitting consists of three key components: two fittings, a gasket, and a clamp. The gasket is placed between the two fittings, and the clamp holds the assembly together. This design provides a highly sanitary connection that is easy to assemble and disassemble, making it perfect for processes requiring regular maintenance and cleaning.

These easy-to-use clamps are made from 304 stainless steel to provides good chemical resistance.

### CERTIFICATION

ASME-BPE, USP Class VI, and FDA compliant

### APPLICATIONS

- Great for food, beverage, and dairy applications
- Ideal for cell culture media, aseptic fill and transfer, and sterile filling

### FEATURES/BENEFITS

- Constructed of 304 stainless steel for good chemical resistance
- Compatible with Tri-Clamp® fittings
- Free technical application support available to assist with tubing selection

### Specification and Ordering Table

Brand	Dimensions: in.	Item Number	Pack Size
Cole-Parmer	1/2" to 3/4"	<a href="#">50118-42</a>	1/Ea
	1" to 1-1/2"	<a href="#">50118-43</a>	1/Ea
	2"	<a href="#">50118-44</a>	1/Ea
	2-1/2"	<a href="#">50118-45</a>	1/Ea
	3"	<a href="#">50118-46</a>	1/Ea
	4"	<a href="#">50118-47</a>	1/Ea

# Hose Barb Fittings Y Union



## Before Choosing a Fitting, Consider the Following

When temperature and pressure are essential, ensure that the fittings you select are suitable for your operating conditions. It's important to note that most fittings cannot operate at their maximum temperature and maximum pressure ratings simultaneously.

Use these high-quality PVC-free fittings in biomedical, pharmaceutical, electronic, and other critical-use applications.

## APPLICATIONS

- Bioprocess, life science, and pharmaceutical industries
- General-purpose, laboratory, and single-use applications to connect tubing with the rest of your system

## FEATURES/BENEFITS

- Free technical application support available to determine which connector type is needed for your application
- Quick and easy assembly without tools
- Single barb design tightly “grips” the tubing
- Natural Kynar® is biopharma compatible and USP 661 and BPOG compliant
- Polypropylene (PP)/High-Density Polyethylene meets FDA requirements 21 CFR 177.1520(a)(3)(i) and (c)3.1a and RoHS compliant
- Nylon is FDA and RoHS compliant

## Materials

### PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -62 to 129 °C (-80 to 265 °F)
- Sterilize by ethylene oxide or autoclave

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.



### High-Density Polyethylene (HDPE)

- Very good chemical resistance
- Temperature range: -53 to 65 °C (-65 to 150 °F)
- Sterilize by ethylene oxide only

### Polypropylene (PP)

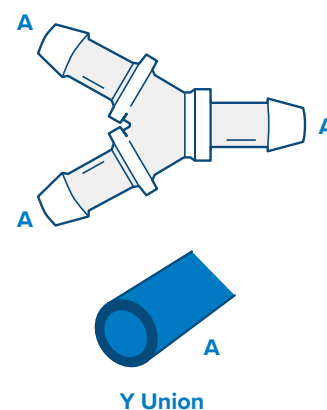
- Very good chemical resistance
- Temperature range: -13 to 66 °C (9 to 180 °F)
- Sterilize by ethylene oxide or gamma irradiation

Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

### Nylon

- Good chemical resistance
- Temperature range: -46 to 121 °C (-50 to 250 °F)
- Sterilize by ethylene oxide only

Nylon resins are stable in most inorganic chemicals including liquid ammonia, sulfurous acid, and others, but may be eroded with oxidants such as hydrogen peroxide and chlorine-based decolorants. Nylon resins are eroded in concentrated inorganic acids at room temperature but are fairly resistant to dilute acids.



## Specification and Ordering Table

Tubing ID dimensions (A)	Material	Type	Item number	Pack size
3/32"	Nylon	Y Union	50111-18	10/pk
3/32"	Natural Kynar®	Y Union	50111-19	10/pk
3/32"	Polypropylene	Y Union	50111-20	10/pk
5/8"	Nylon	Y Union	50111-21	10/pk
5/8"	Natural Kynar®	Y Union	50111-22	10/pk
5/8"	Polypropylene	Y Union	50111-23	10/pk
3/4"	Natural Kynar®	Y Union	50111-24	10/pk
3/4"	Polypropylene	Y Union	50111-25	10/pk
1"	Natural Kynar®	Y Union	50111-26	10/pk
1"	Polypropylene	Y Union	50111-27	10/pk
1/16"	Nylon	Y Union	50111-28	10/pk
1/16"	Natural Kynar®	Y Union	50111-29	10/pk
1/16"	Polypropylene	Y Union	50111-30	10/pk
5/32"	Natural Kynar®	Y Union	50111-31	10/pk
5/32"	Polypropylene	Y Union	50111-32	10/pk
1/8"	Nylon	Y Union	50111-33	10/pk
1/8"	Natural Kynar®	Y Union	50111-34	10/pk
1/8"	Polypropylene	Y Union	50111-35	10/pk
3/16"	HDPE	Y Union	50111-36	10/pk
3/16"	Nylon	Y Union	50111-37	10/pk
3/16"	Natural Kynar®	Y Union	50111-38	10/pk
3/16"	Polypropylene	Y Union	50111-39	10/pk
1/4"	Nylon	Y Union	50111-40	10/pk
1/4"	Natural Kynar®	Y Union	50111-41	10/pk
1/4"	Polypropylene	Y Union	50111-42	10/pk
5/16"	Natural Kynar®	Y Union	50111-43	10/pk
5/16"	Natural Nylon	Y Union	50111-44	10/pk
5/16"	Polypropylene	Y Union	50111-45	10/pk
3/8"	Nylon	Y Union	50111-46	10/pk
3/8"	Natural Kynar®	Y Union	50111-47	10/pk
3/8"	Natural Nylon	Y Union	50111-48	10/pk
3/8"	Polypropylene	Y Union	50111-49	10/pk
1/2"	HDPE	Y Union	50111-50	10/pk
1/2"	Nylon	Y Union	50111-51	10/pk
1/2"	Natural Kynar®	Y Union	50111-52	10/pk
1/2"	Polypropylene	Y Union	50111-53	10/pk

# Hose Barb Fittings

## Straight Reducers



### Before Choosing a Fixture, Consider the Following

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi).

When material compatibility is essential, fluids that do not mesh well with fitting materials can lead to leaks or harm to the system. For extremely corrosive fluids, PTFE fittings are the optimal choice.

When temperature and pressure are essential, ensure that the fittings you select are suitable for your operating conditions. It's important to note that most fittings cannot operate at their maximum temperature and maximum pressure ratings simultaneously.

Use these high-quality PVC-free fittings in biomedical, pharmaceutical, electronic, and other critical-use applications.

### APPLICATIONS

- Bioprocess, life science, and pharmaceutical industries
- General-purpose, laboratory, and single-use applications to connect tubing with the rest of your system

### FEATURES/BENEFITS

- Free technical application support available to determine which connector type is needed for your application
- Quick and easy assembly without tools
- Single barb design tightly “grips” the tubing

## Materials

### PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -62 to 129 °C (-80 to 265 °F)
- Sterilize by ethylene oxide or autoclave

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.

### Polypropylene (PP)

- Very good chemical resistance
- Temperature range: -13 to 66 °C (9 to 180 °F)
- Sterilize by ethylene oxide or gamma irradiation

Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

### Nylon

- Good chemical resistance
- Temperature range: -46 to 121 °C (-50 to 250 °F)
- Sterilize by ethylene oxide only

Nylon is resistant to various chemicals, especially aliphatic and aromatic hydrocarbons, alkalis, greases, fuels, lubricants, and ketones.



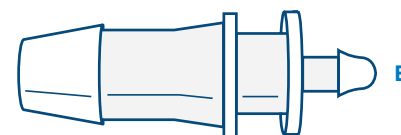
Straight



Barbed



Connector



Input OD to Output OD

## Materials (continued)

### Stainless Steel

- Good chemical resistance
- Temperature range: -40 to 93 °C (-40 to 200 °F)
- Sterilize by ethylene oxide, autoclave or gamma irradiation

Stainless steel is generally resistant to acidic corrosion. However, exact resistance levels will depend on the steel in use, concentration, types of acid, and environmental temperature. Generally, stainless steel reacts with acids by forming hydrogen gas, while alkalis have no effect. However, it is important to note that stainless steel will corrode when exposed to chloride ions, such as those found in salt water or sea air.

### High-Density Polyethylene (HDPE)

- Good chemical resistance
- Temperature range: -53 to 65 °C (65 to 150 °F)
- Sterilize by ethylene oxide only

Polyethylene is an inert plastic and is not subject to attack by most chemicals. However, those substances that do attack the polyethylene may still be “packageable” under certain conditions. Generally, high-density polyethylene is more chemically resistant than low-density.

## Specification and Ordering Table

Tubing ID (AxB)	Material	Item number	Pack size
3/32" x 1/16"	Nylon	50108-47	10/pk
3/32" x 1/16"	Natural Kynar®	50108-48	10/pk
3/32" x 1/16"	Polypropylene	50108-49	10/pk
5/8" x 1/4"	Natural Kynar®	50108-50	10/pk
5/8" x 1/4"	Polypropylene	50108-51	10/pk
5/8" x 5/16"	Natural Kynar®	50108-52	10/pk
5/8" x 5/16"	Polypropylene	50108-53	10/pk
5/8" x 3/8"	Natural Kynar®	50108-54	10/pk
5/8" x 3/8"	Polypropylene	50108-55	10/pk
5/8" x 1/2"	Natural Kynar®	50108-56	10/pk
5/8" x 1/2"	Polypropylene	50108-57	10/pk
3/4" x 3/8"	Natural Kynar®	50108-58	10/pk
3/4" x 3/8"	Polypropylene	50108-59	10/pk
3/4" x 1/2"	Natural Kynar®	50108-60	10/pk
3/4" x 1/2"	Polypropylene	50108-61	10/pk

## Specification and Ordering Table

Tubing ID (AxB)	Material	Item number	Pack size
1" x 5/8"	Natural Kynar®	50108-62	10/pk
1" x 5/8"	Polypropylene	50108-63	10/pk
1" x 3/4"	Natural Kynar®	50108-64	10/pk
1" x 3/4"	Polypropylene	50108-65	10/pk
1" x 1/2"	Natural Kynar®	50108-66	10/pk
1" x 1/2"	Polypropylene	50108-67	10/pk
5/32" x 3/32"	Nylon	50108-68	10/pk
5/32" x 3/32"	Natural Kynar®	50108-69	10/pk
5/32" x 3/32"	Polypropylene	50108-70	10/pk
5/32" x 3/32"	Stainless Steel	50108-71	10/pk
5/32" x 1/8"	Nylon	50108-72	10/pk
5/32" x 1/8"	Natural Kynar®	50108-73	10/pk
5/32" x 1/8"	Polypropylene	50108-74	10/pk
1/8" x 3/32"	Nylon	50108-75	10/pk
1/8" x 3/32"	Natural Kynar®	50108-76	10/pk
1/8" x 3/32"	Polypropylene	50108-77	10/pk
1/8" x 3/32"	Stainless Steel	50108-78	10/pk
1/8" x 1/16"	Nylon	50108-79	10/pk
1/8" x 1/16"	Natural Kynar®	50108-80	10/pk
1/8" x 1/16"	Polypropylene	50108-81	10/pk
3/16" x 3/32"	Polypropylene	50108-82	10/pk
3/16" x 3/32"	Nylon	50108-83	10/pk
3/16" x 1/16"	Natural Kynar®	50108-84	10/pk
3/16" x 1/16"	Polypropylene	50108-85	10/pk
3/16" x 1/8"	Nylon	50108-86	10/pk
3/16" x 1/8"	Natural Kynar®	50108-87	10/pk
3/16" x 1/8"	Polypropylene	50108-88	10/pk
1/4" x 3/32"	Natural Kynar®	50108-89	10/pk
1/4" x 3/32"	Polypropylene	50108-90	10/pk
1/4" x 1/16"	Natural Kynar®	50108-91	10/pk
1/4" x 1/16"	Polypropylene	50108-92	10/pk
1/4" x 5/32"	Nylon	50108-93	10/pk
1/4" x 5/32"	Natural Kynar®	50108-94	10/pk
1/4" x 5/32"	Polypropylene	50108-95	10/pk
1/4" x 1/8"	HDPE	50108-96	10/pk

Tubing ID (AxB)	Material	Item number	Pack size
1/4" x 1/8"	Nylon	50108-97	10/pk
1/4" x 1/8"	Natural Kynar®	50108-98	10/pk
1/4" x 1/8"	Polypropylene	50108-99	10/pk
1/4" x 3/16"	Nylon	50109-00	10/pk
1/4" x 3/16"	Natural Kynar®	50109-01	10/pk
1/4" x 3/16"	Polypropylene	50109-02	10/pk
5/16" x 5/32"	Natural Kynar®	50109-03	10/pk
5/16" x 5/32"	Polypropylene	50109-04	10/pk
5/16" x 1/8"	Polypropylene	50109-05	10/pk
5/16" x 3/16"	Natural Kynar®	50109-06	10/pk
5/16" x 3/16"	Polypropylene	50109-07	10/pk
5/16" x 1/4"	Nylon	50109-08	10/pk
5/16" x 1/4"	Natural Kynar®	50109-09	10/pk
5/16" x 1/4"	Polypropylene	50109-10	10/pk
3/8" x 5/32"	Natural Kynar®	50109-11	10/pk
3/8" x 5/32"	Polypropylene	50109-12	10/pk
3/8" x 1/8"	Natural Kynar®	50109-13	10/pk
3/8" x 1/8"	Polypropylene	50109-14	10/pk
3/8" x 1/4"	Nylon	50109-15	10/pk
3/8" x 1/4"	Natural Kynar®	50109-16	10/pk
3/8" x 1/4"	Polypropylene	50109-17	10/pk
3/8" x 5/16"	Natural Kynar®	50109-18	10/pk
3/8" x 5/16"	Polypropylene	50109-19	10/pk
1/2" x 1/4"	Natural Kynar®	50109-20	10/pk
1/2" x 1/4"	Polypropylene	50109-21	10/pk
1/2" x 5/16"	Natural Kynar®	50109-22	10/pk
1/2" x 5/16"	Polypropylene	50109-23	10/pk
1/2" x 3/8"	Natural Kynar®	50109-24	10/pk
1/2" x 3/8"	Polypropylene	50109-25	10/pk

# Luer to Plug Fittings

## Straight Adapters



### Before Choosing a Fixture, Consider the Following

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi).

Barbed connectors are most effective when paired with flexible tubing like silicone, whereas compression fittings are suited for use with rigid tubing such as PTFE or polypropylene.

When material compatibility is essential, fluids that do not mesh well with fitting materials can lead to leaks or harm to the system. For extremely corrosive fluids, PTFE fittings are the optimal choice.

When temperature and pressure are essential, ensure that the fittings you select are suitable for your operating conditions. It's important to note that most fittings cannot operate at their maximum temperature and maximum pressure ratings simultaneously.

Use these high-quality PVC-free fittings in biomedical, pharmaceutical, electronic, and other critical-use applications.

### APPLICATIONS

- Bioprocess, life science, and pharmaceutical industries
- General-purpose, laboratory, and single-use applications to connect tubing with the rest of your system

### FEATURES/BENEFITS

- Free technical application support available to determine which connector type is needed for your application
- Forms a leak-free luer connection with a quick simple turn
- Natural Kynar® is biopharma compatible and USP 661 and BPOG compliant
- Polypropylene (PP) meets FDA requirements 21 CFR 177.1520(a)(3)(i) and (c)3.1a and RoHS compliant
- Nylon is FDA and RoHS compliant  
CrystalVu™ adheres to standards including USP Class VI and EU 2002/72/EC regulations

## Materials

### PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -62 to 129 °C (-80 to 265 °F)
- Sterilize by ethylene oxide or autoclave

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.

### Polypropylene (PP)

- Very good chemical resistance
- Temperature range: -13 to 66 °C (9 to 180 °F)
- Sterilize by ethylene oxide or gamma irradiation

Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

### Nylon

- Good chemical resistance
- Temperature range: -46 to 121 °C (-50 to 250 °F)
- Sterilize by ethylene oxide only

Nylon is resistant to various chemicals, especially aliphatic and aromatic hydrocarbons, alkalis, greases, fuels, lubricants, and ketones.

### CrystalVu™

- Good chemical resistance

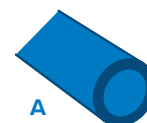
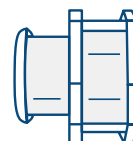
A transparent alternative to polycarbonate that is free from Bisphenol-A (BPA), maintaining its clarity and structure even at temperatures up to 180 °C. This alternative is autoclavable and boasts improved features compared to polycarbonate, such as superior chemical resistance and resilience against deformation after multiple autoclave cycles, gamma, and EtO sterilization.



**Straight**



**Adapter**



**Luer to Plug**

## Specification and Ordering Table

Description	Material	Type	Item number	Pack size
Female Luer	CrystalVu™	Straight Adapter	50109-96	10/pk
Female Luer	Nylon	Straight Adapter	50109-97	10/pk
Female Luer	Natural Kynar®	Straight Adapter	50109-98	10/pk
Female Luer	Natural Nylon	Straight Adapter	50109-99	10/pk
Female Luer	Polypropylene	Straight Adapter	50110-00	10/pk
Female Luer with Tether	Polypropylene	Straight Adapter	50110-01	10/pk
Large Bore Female Luer	CrystalVu™	Straight Adapter	50109-41	10/pk
Large Bore Female Luer	Nylon	Straight Adapter	50109-42	10/pk
Large Bore Female Luer	Natural Kynar®	Straight Adapter	50109-43	10/pk
Large Bore Female Luer	Natural Nylon	Straight Adapter	50109-44	10/pk
Large Bore Female Luer	Polypropylene	Straight Adapter	50109-45	10/pk
Male Luer	CrystalVu™	Straight Adapter	50110-32	10/pk
Male Luer	Nylon	Straight Adapter	50110-33	10/pk
Male Luer	Natural Kynar®	Straight Adapter	50110-34	10/pk
Male Luer	Natural Nylon	Straight Adapter	50110-35	10/pk
Male Luer	Polypropylene	Straight Adapter	50110-36	10/pk
Male Luer Lock	Nylon	Straight Adapter	50110-50	10/pk
Male Luer Lock	Natural Kynar®	Straight Adapter	50110-51	10/pk
Male Luer Lock	Natural Nylon	Straight Adapter	50110-52	10/pk
Male Luer Lock	Polypropylene	Straight Adapter	50110-53	10/pk
Male Luer Slip	CrystalVu™	Straight Adapter	50110-54	10/pk
Male Luer Slip	Nylon	Straight Adapter	50110-55	10/pk
Male Luer Slip	Natural Kynar®	Straight Adapter	50110-56	10/pk
Male Luer Slip	Natural Nylon	Straight Adapter	50110-57	10/pk
Male Luer Slip	Polypropylene	Straight Adapter	50110-58	10/pk
Large Bore Male Luer	CrystalVu™	Straight Adapter	50109-46	10/pk
Large Bore Male Luer	Nylon	Straight Adapter	50109-47	10/pk
Large Bore Male Luer	Natural Kynar®	Straight Adapter	50109-48	10/pk
Large Bore Male Luer	Natural Nylon	Straight Adapter	50109-49	10/pk
Large Bore Male Luer	Polypropylene	Straight Adapter	50109-50	10/pk
Rotating Male Luer	CrystalVu™	Straight Adapter	50110-37	10/pk
Rotating Male Luer	Nylon	Straight Adapter	50110-38	10/pk
Rotating Male Luer	Natural Kynar®	Straight Adapter	50110-39	10/pk
Rotating Male Luer	Natural Nylon	Straight Adapter	50110-40	10/pk
Rotating Male Luer	Polypropylene	Straight Adapter	50110-41	10/pk

Description	Material	Type	Item number	Pack size
Rotating Male Luer Lock	CrystalVu™	Straight Adapter	50110-49	10/pk
Luer Lock Plug Nut Assembly Berry	Nylon	Straight Adapter	50110-42	10/pk
Luer Lock Plug Nut Assembly Lime	Nylon	Straight Adapter	50110-43	10/pk
Luer Lock Plug Nut Assembly Orange	Nylon	Straight Adapter	50110-44	10/pk
Luer Lock Plug Nut Assembly Natural	Nylon	Straight Adapter	50110-45	10/pk
Luer Lock Plug Nut Assembly Rose	Nylon	Straight Adapter	50110-46	10/pk
Luer Lock Plug Nut Assembly Violet	Nylon	Straight Adapter	50110-47	10/pk
Luer Lock Plug Nut Assembly Yellow	Nylon	Straight Adapter	50110-48	10/pk

## Reduction Elbow Fittings



### Before Choosing a Fitting, Consider the Following

When temperature and pressure are essential, ensure that the fittings you select are suitable for your operating conditions. It's important to note that most fittings cannot operate at their maximum temperature and maximum pressure ratings simultaneously.

Use these high-quality PVC-free fittings in biomedical, pharmaceutical, electronic, and other critical-use applications.

### APPLICATIONS

- Bioprocess, life science, and pharmaceutical industries
- General-purpose, laboratory, and single-use applications to connect tubing with the rest of your system

### FEATURES/BENEFITS

- Free technical application support available to determine which connector type is needed for your application
- Quick and easy assembly without tools
- Single barb design tightly “grips” the tubing
- Natural Kynar® is biopharma compatible and USP 661 and BPOG compliant
- Polypropylene (PP) meets FDA requirements 21 CFR 177.1520(a)(3)(i) and (c)3.1a and RoHS compliant
- Nylon is FDA and RoHS compliant

## Materials

### PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -62 to 129 °C (-80 to 265 °F)
- Sterilize by ethylene oxide or autoclave

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.

### Polypropylene (PP)

- Very good chemical resistance
- Temperature range: -13 to 66 °C (9 to 180 °F)
- Sterilize by ethylene oxide or gamma irradiation

Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

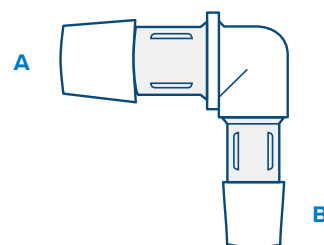
### Nylon

- Good chemical resistance
- Temperature range: -46 to 121 °C (-50 to 250 °F)
- Sterilize by ethylene oxide only

Nylon is resistant to various chemicals, especially aliphatic and aromatic hydrocarbons, alkalis, greases, fuels, lubricants, and ketones.



Barbed



Reduction Elbow Fitting

## Specification and Ordering Table

Tubing ID dimensions (AxB)	Material	Type	Item number	Pack size
3/32" Barb x 1/16" Barb	Polypropylene	Reduction Elbow	5011733	10/pk
1" x 3/4"	Natural Kynar®	Reduction Elbow	5011741	10/pk
1" x 3/4"	Polypropylene	Reduction Elbow	5011734	10/pk
1/8" Barb x 3/32" Barb	Polypropylene	Reduction Elbow	5011735	10/pk
1/8" x 3/32"	Nylon	Miniature Reduction Elbow	5011745	10/pk
1/8" Barb x 1/16" Barb	Polypropylene	Reduction Elbow	5011736	10/pk
3/16" Barb x 1/8" Barb	Polypropylene	Reduction Elbow	5011737	10/pk
1/4" x 1/8"	Nylon	Miniature Reduction Elbow	5011746	10/pk
3/8" x 1/4"	Natural Kynar®	Reduction Elbow	5011742	10/pk
3/8" x 1/4"	Polypropylene	Reduction Elbow	5011738	10/pk
1/2" x 1/4"	Natural Kynar®	Reduction Elbow	5011743	10/pk
1/2" x 1/4"	Polypropylene	Reduction Elbow	5011739	10/pk
1/2" x 3/8"	Natural Kynar®	Reduction Elbow	5011744	10/pk
1/2" x 3/8"	Polypropylene	Reduction Elbow	5011740	10/pk

# Sanitary Clamps

## Glass-Filled Nylon

**Cole-Parmer®**  
an antylla scientific company



### Before Choosing a Fixture, Consider the Following

Sanitary fittings are crafted to prevent contamination, ensuring the highest standards of purity and reliability in fluid handling systems. A sanitary fitting consists of three key components: two fittings, a gasket, and a clamp. The gasket is placed between the two fittings, and the clamp holds the assembly together. This design provides a highly sanitary connection that is easy to assemble and disassemble, making it perfect for processes requiring regular maintenance and cleaning.

These glass-reinforced nylon sanitary hinged clamps provide a leakproof, sterile connection, ensuring the integrity of the fluid being transferred. The universal clamp can also be used with ASME-BPE and BPA standard nonmetallic and stainless flange ferrules.

### APPLICATIONS

- Meet U.S. and EU standards for use in pharmaceutical process applications
- Ideal for cell culture media, aseptic fill and transfer, and sterile filling

### FEATURES/BENEFITS

- High-quality nonmetallic sanitary clamps for critical fluid applications
- Lightweight and corrosion resistant
- Compatible with Tri-Clamp® fittings
- Wide temperature range of -40 to 150 °C (-40 to 302 °F)
- Sterilize by autoclave or gamma irradiation
- Free technical application support available to assist with tubing selection

### Specification and Ordering Table

Brand	Dimensions: in.	Item Number	Pack Size
Cole-Parmer	3/4"	<a href="#">50118-81</a>	1/Ea
	1-1/2"	<a href="#">50118-82</a>	1/Ea
	2"	<a href="#">50118-83</a>	1/Ea
	3"	<a href="#">50118-84</a>	1/Ea
	4"	<a href="#">50118-85</a>	1/Ea

# Cole-Parmer® Sanitary Gaskets

## PTFE

Sanitary fittings are crafted to prevent contamination, ensuring the highest standards of purity and reliability in fluid handling systems. A sanitary fitting consists of three key components: two fittings, a gasket, and a clamp. The gasket is placed between the two fittings, and the clamp holds the assembly together. This design provides a highly sanitary connection that is easy to assemble and disassemble, making it perfect for processes requiring regular maintenance and cleaning.

These PTFE gaskets offer excellent chemical, heat, stress, and corrosion resistance for worry-free and leak-free fluid transfer. Gaskets are free of phthalates, TSE/BSE, and animal-derived ingredients, ensuring the integrity of your fluid.

### PTFE GASKETS



### APPLICATIONS

- Great for highly corrosive chemical, pharmaceutical, and biotech applications
- Ideal for general-purpose, laboratory, and single-use applications

### FEATURES/BENEFITS

- Offers excellent chemical and heat resistance
- Usable temperature range: -73 to 260 °C (-100 to 500 °F)
- Compatible with Tri-Clamp® fittings
- Free technical application support available to assist with tubing selection

### CERTIFICATION

FDA 21 CFR 177.2600, USP Class VI, and 3-A compliant

Specification and Ordering Table

Dimensions: in.	Item number	Pack size
Clamp size		
1/2"	<a href="#">50133-60</a>	10/Pk
3/4"	<a href="#">50133-61</a>	10/Pk
1"	<a href="#">50133-62</a>	10/Pk
1-1/2"	<a href="#">50133-63</a>	10/Pk
2"	<a href="#">50133-64</a>	10/Pk
2-1/2"	<a href="#">50133-65</a>	10/Pk

# Threaded Hose Barb Fittings Cross Union



## Before Choosing a Fitting, Consider the Following

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi).

When material compatibility is essential, fluids that do not mesh well with fitting materials can lead to leaks or harm to the system. For extremely corrosive fluids, PTFE fittings are the optimal choice.

When temperature and pressure are essential, ensure that the fittings you select are suitable for your operating conditions. It's important to note that most fittings cannot operate at their maximum temperature and maximum pressure ratings simultaneously.

Use these high-quality PVC-free fittings in biomedical, pharmaceutical, electronic, and other critical-use applications.

## APPLICATIONS

- Bioprocess, life sciences, and pharmaceutical industries
- General-purpose, laboratory, and single-use applications to connect tubing with the rest of your system

## FEATURES/BENEFITS

- Free technical application support available to determine which connector type is needed for your application
- Quick and easy assembly without tools
- Single barb design tightly “grips” the tubing
- Natural Kynar® is biopharma compatible and USP 661 and BPOG compliant
- Polypropylene (PP)/High-Density Polyethylene meets FDA requirements 21 CFR 177.1520(a)(3)(i) and (c)3.1a and RoHS compliant

## Materials

### PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -62 to 129 °C (-80 to 265 °F)
- Sterilize by ethylene oxide or autoclave

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.

### Polypropylene (PP)

- Very good chemical resistance
- Temperature range: -13 to 66 °C (9 to 180 °F)
- Sterilize by ethylene oxide or gamma irradiation

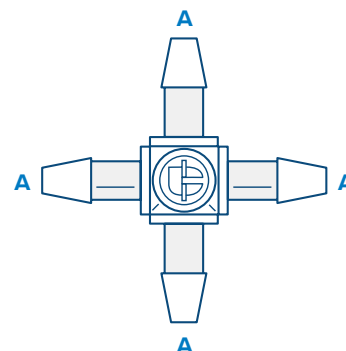
Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

## Specification and Ordering Table

Tubing ID Dimensions (A)	Material	Type	Item number	Pack Size
1/16"	Natural Kynar®	Cross Union	50116-57	10/pk
1/16"	Polypropylene	Cross Union	50116-63	10/Pk
1/8"	Natural Kynar®	Cross Union	50116-58	10/Pk
1/8"	Polypropylene	Cross Union	50116-64	10/Pk
3/16"	Natural Kynar®	Cross Union	50116-59	10/Pk
3/16"	Polypropylene	Cross Union	5011665	10/Pk
1/4"	Natural Kynar®	Cross Union	5011660	10/Pk
1/4"	Polypropylene	Cross Union	5011666	10/Pk
3/8"	Natural Kynar®	Cross Union	5011661	10/Pk
3/8"	Polypropylene	Cross Union	5011667	10/Pk
1/2"	Natural Kynar®	Cross Union	5011662	10/Pk
1/2"	Polypropylene	Cross Union	5011668	10/Pk



Barbed



Cross Union Fitting

# Cole-Parmer® Sanitary Gaskets

## Black Buna

Sanitary fittings are crafted to prevent contamination, ensuring the highest standards of purity and reliability in fluid handling systems. A sanitary fitting consists of three key components: two fittings, a gasket, and a clamp. The gasket is placed between the two fittings, and the clamp holds the assembly together. This design provides a highly sanitary connection that is easy to assemble and disassemble, making it perfect for processes requiring regular maintenance and cleaning.

Buna, a synthetic rubber compound, has excellent resistance to many hydrocarbons, fats, oils, greases, hydraulic fluids, and chemicals. Gaskets are phthalate free and withstand long-term exposure to CIP media.

### BLACK BUNA GASKETS



### APPLICATIONS

- Great for most pharmaceutical, food, and beverage applications
- Ideal for general-purpose, laboratory, and single-use applications

### FEATURES/BENEFITS

- Resistant to many hydrocarbons, fats, and greases
- Usable temperature range: -34 to 93 °C (-30 to 200 °F)
- Compatible with Tri-Clamp® fittings
- Free technical application support available to assist with tubing selection

### CERTIFICATION

FDA 21 CFR 177.2600  
and 3-A compliant

Specification and Ordering Table

Dimensions: in.	Item number	Pack size
Clamp size		
1/2"	<a href="#">50134-00</a>	10/Pk
3/4"	<a href="#">50134-01</a>	10/Pk
1"	<a href="#">50134-02</a>	10/Pk
1-1/2"	<a href="#">50134-03</a>	10/Pk
2"	<a href="#">50134-04</a>	10/Pk
2-1/2"	<a href="#">50134-05</a>	10/Pk

## Cole-Parmer® Sanitary Gaskets Platinum-Cured Silicone

Sanitary fittings are crafted to prevent contamination, ensuring the highest standards of purity and reliability in fluid handling systems. A sanitary fitting consists of three key components: two fittings, a gasket, and a clamp. The gasket is placed between the two fittings, and the clamp holds the assembly together. This design provides a highly sanitary connection that is easy to assemble and disassemble, making it perfect for processes requiring regular maintenance and cleaning.

Use the platinum-cured silicone gaskets in sanitary fittings for leak-free fluid transfer. These nontoxic and highly biocompatible gaskets are ideal for pharmaceutical, food, and beverage applications. Gaskets are free of phthalates, TSE/BSE, and animal-derived ingredients, ensuring the integrity of your fluid.

### PLATINUM-CURED SILICONE GASKETS



### APPLICATIONS

- Great for most pharmaceutical, food, and beverage applications
- Ideal for general-purpose, laboratory, and single-use applications

### FEATURES/BENEFITS

- Usable temperature range: -40 to 232 °C (-40 to 450 °F)
- Compatible with Tri-Clamp® fittings
- Free technical application support available to assist with tubing selection

### CERTIFICATION

FDA 21 CFR 177.2600, USP Class VI, and 3-A compliant

Specification and Ordering Table

Dimensions: in.	Item number	Pack size
Clamp size		
1/2"	<a href="#">50133-90</a>	10/Pk
3/4"	<a href="#">50133-91</a>	10/Pk
1"	<a href="#">50133-92</a>	10/Pk
1-1/2"	<a href="#">50133-93</a>	10/Pk
2"	<a href="#">50133-94</a>	10/Pk
2-1/2"	<a href="#">50133-95</a>	10/Pk

# Luer Fittings



## Before Choosing a Fixture, Consider the Following

Barbed connectors are most effective when paired with flexible tubing like silicone, whereas compression fittings are suited for use with rigid tubing such as PTFE or polypropylene.

When temperature and pressure are essential, ensure that the fittings you select are suitable for your operating conditions. It's important to note that most fittings cannot operate at their maximum temperature and maximum pressure ratings simultaneously.

Use these high-quality PVC-free fittings in biomedical, pharmaceutical, electronic, and other critical-use applications.

## APPLICATIONS

- Bioprocess, life science, and pharmaceutical industries
- General-purpose, laboratory, and single-use applications to connect tubing with the rest of your system

## FEATURES/BENEFITS

- Free technical application support available to determine which connector type is needed for your application
- Forms a leak-free luer connection with a quick simple turn
- Single barb design tightly “grips” the tubing
- Natural Kynar® is biopharma compatible and USP 661 and BPOG compliant
- Polypropylene (PP) meets FDA requirements 21 CFR 177.1520(a)(3)(i) and (c)3.1a and RoHS compliant
- Nylon – FDA and RoHS compliant
- CrystalVU™ – adheres to standards including USP Class VI and EU 2002/72/EC regulations

## Materials

### PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -62 to 129 °C (-80 to 265 °F)
- Sterilize by ethylene oxide or autoclave

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.

### Polypropylene (PP)

- Very good chemical resistance
- Temperature range: -13 to 66 °C (9 to 180 °F)
- Sterilize by ethylene oxide or gamma irradiation

Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

### Nylon

- Good chemical resistance
- Temperature range: -46 to 121 °C (-50 to 250 °F)
- Sterilize by ethylene oxide only

Nylon is resistant to various chemicals, especially aliphatic and aromatic hydrocarbons, alkalis, greases, fuels, lubricants, and ketones.

### CrystalVu™

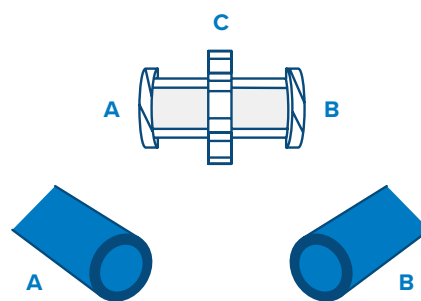
- Good chemical resistance

A transparent alternative to polycarbonate that is free from Bisphenol-A (BPA), maintaining its clarity and structure even at temperatures up to 180 °C. This alternative is autoclavable and boasts improved features compared to polycarbonate, such as superior chemical resistance and resilience against deformation after multiple autoclave cycles, gamma, and EtO sterilization.



Barbed

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Luer Fitting

## Specification and Ordering Table

Tubing ID Dimensions (AxBxC)	Material	Item number	Pack size
0.445 × 0.445 × 0.6 in	CrystalVu™	50114-21	10/pk
0.445 × 0.445 × 0.6 in	Nylon	50114-22	10/pk
0.445 × 0.445 × 0.6 in	Natural Kynar®	50114-23	10/pk
0.445 × 0.445 × 0.6 in	Natural Nylon	50114-24	10/pk
0.445 × 0.445 × 0.6 in	Polypropylene	50114-25	10/pk
0.578 × 0.275 × 0.52 in	CrystalVu™	50115-43	10/pk
0.578 × 0.275 × 0.52 in	Nylon	50115-44	10/pk
0.578 × 0.275 × 0.52 in	Natural Kynar®	50115-45	10/pk
0.578 × 0.275 × 0.52 in	Natural Nylon	50115-46	10/pk
0.578 × 0.275 × 0.52 in	Polypropylene	50115-47	10/pk

# Port Disk Hose Barb Fittings



## Before Choosing a Fixture, Consider the Following

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi).

When temperature and pressure are essential, ensure that the fittings you select are suitable for your operating conditions. It's important to note that most fittings cannot operate at their maximum temperature and maximum pressure ratings simultaneously.

Use these high-quality PVC-free fittings in biomedical, pharmaceutical, electronic, and other critical-use applications.

## APPLICATIONS

- Bioprocess, life science, and pharmaceutical industries
- General-purpose, laboratory, and single-use applications to connect tubing with the rest of your system

## FEATURES/BENEFITS

- Free technical application support available to determine which connector type is needed for your application
- Design allows for a port on both sides of the bag
- Ultrasonic, radio frequency, or thermal weld to polyethylene bags
- Meets FDA requirements 21 CFR 177.1520(c) 3.2c and 21 CFR 176.170(c) and RoHS compliant
- Natural Kynar® is biopharma compatible and USP 661 and BPOG compliant

## Material Types – General Overview

### PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -62 to 129 °C (-80 to 265 °F)
- Sterilize by ethylene oxide or autoclave

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.

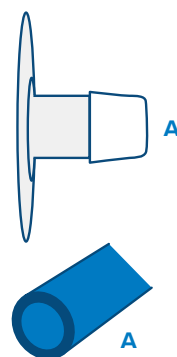
### Engage 8402

- Good chemical resistance
- Max temperature range: 96 °C (205 °F)

This ethylene-octene copolymer offers excellent performance in durable, flexible injection molded industrial and consumer goods. This provides high clarity in products requiring visual inspection and allows hot runner molds to enhance production efficiency. In addition, its low density can help control resin and production costs, while reducing the weight of the end products.



Barbed



Port Disk Hose Barb Fitting

## Specification and Ordering Table

Tubing ID dimensions (A)	Material	Type	Item number	Pack size
5/8"	Engage™ 8402	Port Disk Hose Barb Fitting	50116-69	10/pk
5/8"	Natural Kynar®	Port Disk Hose Barb Fitting	50116-79	10/pk
3/4"	Engage™ 8402	Port Disk Hose Barb Fitting	50116-70	10/pk
3/4"	Natural Kynar®	Port Disk Hose Barb Fitting	50116-80	10/pk
1"	Engage™ 8402	Port Disk Hose Barb Fitting	50116-71	10/pk
1"	Natural Kynar®	Port Disk Hose Barb Fitting	50116-81	10/pk
5/32"	Engage™ 8402	Port Disk Hose Barb Fitting	50116-72	10/pk
5/32"	Natural Kynar®	Port Disk Hose Barb Fitting	50116-82	10/pk
1/8"	Engage™ 8402	Port Disk Hose Barb Fitting	50116-73	10/pk
1/8"	Natural Kynar®	Port Disk Hose Barb Fitting	50116-83	10/pk
3/16"	Engage™ 8402	Port Disk Hose Barb Fitting	50116-74	10/pk
3/16"	Natural Kynar®	Port Disk Hose Barb Fitting	50116-84	10/pk
1/4"	Engage™ 8402	Port Disk Hose Barb Fitting	50116-75	10/pk
1/4"	Natural Kynar®	Port Disk Hose Barb Fitting	50116-85	10/pk
5/16"	Engage™ 8402	Port Disk Hose Barb Fitting	50116-76	10/pk
5/16"	Natural Kynar®	Port Disk Hose Barb Fitting	50116-86	10/pk
3/8"	Engage™ 8402	Port Disk Hose Barb Fitting	50116-77	10/pk
3/8"	Natural Kynar®	Port Disk Hose Barb Fitting	50116-87	10/pk
1/2"	Engage™ 8402	Port Disk Hose Barb Fitting	50116-78	10/pk
1/2"	Natural Kynar®	Port Disk Hose Barb Fitting	50116-88	10/pk

# Cleanroom Port Disks



## Before Choosing a Fitting, Consider the Following

When temperature and pressure are essential, ensure that the fittings you select are suitable for your operating conditions. It's important to note that most fittings cannot operate at their maximum temperature and maximum pressure ratings simultaneously.

Use these high-quality PVC-free fittings in biomedical, pharmaceutical, electronic, and other critical-use applications. Fittings are manufactured, double bagged, and sealed in a cleanroom to ensure that the integrity is not compromised. A cleanroom utilizes HEPA filtration systems to maintain air cleanliness levels of less than 10,000 particles of 0.5 µm or larger per cubic foot.

## APPLICATIONS

- Bioprocess, life sciences, and pharmaceutical industries
- General-purpose, laboratory, and single-use applications to connect tubing with the rest of your system

## FEATURES/BENEFITS

- Free technical application support available to determine which connector type is needed for your application
- Manufactured in a cleanroom to minimize contamination by pollutants
- Mini-dome protrusions inhibit suction blockage
- Ultrasonic, radio frequency, or thermal weld to polyethylene bags
- Natural Kynar® is biopharma compatible and USP 661 and BPOG compliant
- Polypropylene (PP) meets FDA requirements 21 CFR 177.1520(a)(3)(i) and (c)3.1a and RoHS compliant

## Materials

### PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -62 to 129 °C (-80 to 265 °F)
- Sterilize by ethylene oxide or autoclave

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.

### Polypropylene (PP)

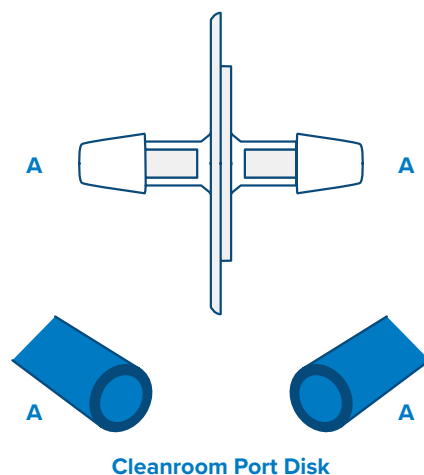
- Very good chemical resistance
- Temperature range: -13 to 66 °C (9 to 180 °F)
- Sterilize by ethylene oxide or gamma irradiation

Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

### Engage 8402

- Good chemical resistance
- Max temperature range: 96 °C (205 °F)

This ethylene-octene copolymer offers excellent performance in durable, flexible injection molded industrial and consumer goods. This provides high clarity in products requiring visual inspection and allows hot runner molds to enhance production efficiency. In addition, its low density can help control resin and production costs, while reducing the weight of the end products



## Specification and Ordering Table

Tubing ID Dimensions (A)	Material	Type	Item number	Pack Size
1/8"	Engage 8402	Cleanroom Port Disk	5011691	10/pk
3/16"	Engage 8402	Cleanroom Port Disk	5011692	10/pk
1/4"	Engage 8402	Cleanroom Port Disk	5011693	10/pk
1/4"	Natural Kynar Flex	Cleanroom Port Disk	5011696	10/pk
1/4"	Polypropylene	Cleanroom Port Disk	5011699	10/pk
3/8"	Engage 8402	Cleanroom Port Disk	5011694	10/pk
3/8"	Natural Kynar Flex	Cleanroom Port Disk	5011697	10/pk
1/2"	Engage 8402	Cleanroom Port Disk	5011695	10/pk
1/2"	Natural Kynar Flex	Cleanroom Port Disk	5011698	10/pk
1/2"	Polypropylene	Cleanroom Port Disk	5011700	10/pk
5/8" Barb	Engage 8402	Cleanroom Port Disk	5011701	10/pk
5/8" Barb	Natural Kynar Flex	Cleanroom Port Disk	5011712	10/pk
5/8" Barb	Polypropylene	Cleanroom Port Disk	5011722	10/pk
3/4" Barb	Engage 8402	Cleanroom Port Disk	5011702	10/pk
3/4" Barb	Natural Kynar Flex	Cleanroom Port Disk	5011713	10/pk
1" Barb	Engage 8402	Cleanroom Port Disk	5011703	10/pk
1" Barb	Natural Kynar Flex	Cleanroom Port Disk	5011714	10/pk
1" Barb	Polypropylene	Cleanroom Port Disk	5011723	10/pk
5/32" Barb	Engage 8402	Cleanroom Port Disk	5011704	10/pk
5/32" Barb	Natural Kynar Flex	Cleanroom Port Disk	5011715	10/pk
1/8" Barb	Engage 8402	Cleanroom Port Disk	5011705	10/pk
1/8" Barb	Natural Kynar Flex	Cleanroom Port Disk	5011716	10/pk
3/16" Barb	Engage 8402	Cleanroom Port Disk	5011706	10/pk
3/16" Barb	Natural Kynar Flex	Cleanroom Port Disk	5011717	10/pk
1/4" Barb	Engage 8402	Cleanroom Port Disk	5011707	10/pk
1/4" Barb	Natural Kynar Flex	Cleanroom Port Disk	5011718	10/pk
1/4" Barb	Polypropylene	Cleanroom Port Disk	5011724	10/pk
5/16" Barb	Engage 8402	Cleanroom Port Disk	5011708	10/pk
5/16" Barb	Natural Kynar Flex	Cleanroom Port Disk	5011719	10/pk
3/8" Barb	Engage 8402	Cleanroom Port Disk	5011709	10/pk
3/8" Barb	Natural Kynar Flex	Cleanroom Port Disk	5011720	10/pk
3/8" Barb	Polypropylene	Cleanroom Port Disk	5011725	10/pk
1/2" Barb	Engage 8402	Cleanroom Port Disk	5011710	10/pk
1/2" Barb	Natural Kynar Flex	Cleanroom Port Disk	5011721	10/pk
1/2" Barb	Polypropylene	Cleanroom Port Disk	5011726	10/pk
Female Luer	Engage 8402	Cleanroom Port Disk	5011711	10/pk

# Fittings



Fittings play a pivotal role in establishing a robust tubing assembly, reducing leaks, restrictions, or expensive downtimes. They are essential for seamlessly integrating tubing into various systems, enhancing fluid handling efficiency and reliability. Whether you're configuring a laboratory setup or an industrial system, selecting the right fittings is paramount to achieving optimal performance and minimizing maintenance issues. Cole-Parmer has an extensive offering of Fittings to meet your every application!

## Cole-Parmer® Cleanroom Hose Barb to Plug Fittings, Straight Adapter, Natural Kynar®



### COLE-PARMER





Manufactured in an ISO Class 7 certified cleanroom to minimize contamination by pollutants

- Ideal for general-purpose, laboratory, and single-use applications to connect tubing with the rest of your system
- Free technical application support available to determine which connector type is needed for your application
- PVC-free—ideal for use in bioprocess, life science, and pharmaceutical industries
- Single barb design tightly “grips” the tubing
- Biopharma compatible and USP 661 and BPOG compliant

Use these high-quality PVC-free fittings in biomedical research, pharmaceutical, electronic, and other critical-use applications. Fittings are manufactured, double bagged, and sealed in an ISO Class 7 cleanroom to ensure that the integrity is not compromised. An ISO Class 7 cleanroom utilizes HEPA filtration systems to maintain air cleanliness levels of less than 10,000 particles of 0.5 µm or larger per cubic foot.

Simply insert the hose barb plug in the soft tubing to stop the fluid flow. A single barb on one end of the fitting creates a tight seal to keep the tubing in place. These natural Kynar® fittings provide excellent chemical, flame, gamma radiation, UV, and weather resistance. They also exhibit good mechanical properties, low moisture absorption, and good machinability.

item	Barb Size / Tubing Id (Port 1) (in)	Fitting Material	Connection Type
 EW-50110-62	1/16	Natural Kynar®	Hose Barb x Plug
 EW-50110-64	3/4	Natural Kynar®	Hose Barb x Plug
 EW-50110-66	1	Natural Kynar®	Hose Barb x Plug
 EW-50110-68	5/32	Natural Kynar®	Hose Barb x Plug

item	Barb Size / Tubing Id (Port 1) (in)	Fitting Material	Connection Type
<div data-bbox="126 253 256 378"></div> <div data-bbox="256 253 584 378">EW-50110-71</div>	1/8	Natural Kynar®	Hose Barb x Plug
<div data-bbox="126 683 256 808"></div> <div data-bbox="256 683 584 808">EW-50110-73</div>	3/16	Natural Kynar®	Hose Barb x Plug
<div data-bbox="126 1115 256 1240"></div> <div data-bbox="256 1115 584 1240">EW-50110-75</div>	1/4	Natural Kynar®	Barb x Plug
<div data-bbox="126 1545 256 1671"></div> <div data-bbox="256 1545 584 1671">EW-50110-77</div>	3/8	Natural Kynar®	Hose Barb x Plug

item	Barb Size / Tubing Id (Port 1) (in)	Fitting Material	Connection Type
<div data-bbox="126 253 256 378"></div> EW-50110-79	1/2	Natural Kynar®	Barb x Plug

# Cole-Parmer® Cleanroom Port Disk Threaded Fitting, 38-400 1" Thread




## COLE-PARMER

Weld to single-use bags to transfer viscose fluids and powders

- Ideal for general-purpose, laboratory, and single-use applications to connect tubing with the rest of your system
  - Free technical application support available to determine which connector type is needed for your application
  - Manufactured in an ISO Class 7 certified cleanroom to minimize contamination by pollutants
  - PVC-free—ideal for use in bioprocess, life science, and pharmaceutical industries
  - Wide 1" opening—ideal for powders and high viscosity fluid
- Use these high-quality PVC-free port disks with 38-400 bottle cap thread and 1" wide opening to transfer high viscosity fluids and powders from single-use bags used in pharmaceutical and medical industries. Ultrasonic, radio frequency, or thermal weld port disks to polyethylene or Kynar medical and bioreactor bags to easily transfer fluids.

Disks are manufactured, double bagged, and sealed in an ISO Class 7 cleanroom to ensure that the integrity is not compromised. An ISO Class 7 cleanroom utilizes HEPA filtration systems to maintain air cleanliness levels of less than 10,000 particles of 0.5 µm or larger per cubic foot.

item	Color	Fitting Material	Description
<div>EW-50116-89</div>	Natural	Natural Kynar® Flex	Port Disk Threaded Fitting, Natural Kynar® Flex, Cleanroom Packed, 38-400 1" Thread; 10/Pk

item	Color	Fitting Material	Description
<div data-bbox="124 253 256 378"></div> <div data-bbox="256 253 584 378">EW-50116-90</div>	Natural	Polypropylene	Port Disk Threaded Fitting, Polypropylene, Cleanroom Packed, 38-400 1" Thread; 10/Pk

# Cole-Parmer® Cleanroom Stationary Male Luer Lock to Barb Fittings, Straight Adapter, White Nylon




Manufactured in an ISO Class 7 certified cleanroom to minimize contamination by pollutants





- Ideal for general-purpose, laboratory, and single-use applications to connect tubing with the rest of your system
- Free technical application support available to determine which connector type is needed for your application
- PVC-free—ideal for use in bioprocess, life science, and pharmaceutical industries
- Connect to a female luer body to form a leak-free fluid path
- Single barb design tightly “grips” the tubing
- Meets FDA regulations 21 CFR 178.3297 and RoHS compliant


Use these high-quality PVC-free fittings in biomedical research, pharmaceutical, electronic, and other critical-

use applications. Fittings are manufactured, double bagged, and sealed in an ISO Class 7 cleanroom to ensure that the integrity is not compromised. An ISO Class 7 cleanroom utilizes HEPA filtration systems to maintain air cleanliness levels of less than 10,000 particles of 0.5 µm or larger per cubic foot.

Quickly and easily transition from soft tubing to a luer connection using these adapters. Luer fitting is a standardized system comprised of a male taper and a female mating part that provides a leak-free connection. A single barb on one end of the fitting creates a tight seal to keep the tubing in place. Nylon fittings are made from the same resin as natural nylon but with FDA-compliant white coloring. They offer good tensile strength, stiffness, and impact resistance and are resistant to fuels and lubricants. Not recommended for use with phenols, strong acids, and oxidizing agents.

item	Barb Size-Port 2 (in)	Connection Type-Port 1	Material
 EW-50115-37	3/32	Male Luer	White Nylon

item		Barb Size-Port 2 (in)	Connection Type-Port 1	Material
 EW-50115-38		1/16	Male Luer	White Nylon
 EW-50115-39		5/32	Male Luer	White Nylon
 EW-50115-40		1/8	Male Luer	White Nylon
 EW-50115-41		3/16	Male Luer	White Nylon

item	Barb Size-Port 2 (in)	Connection Type-Port 1	Material
<div data-bbox="126 253 256 378"></div> EW-50115-42	1/4	Male Luer	White Nylon

## Cole-Parmer 18 Pound Nylon Identification Cable Zip Ties, 4.5" L, White; 100/CS

Cole-Parmer – Item # EW-06842-59

\$

### MORE ABOUT THIS ITEM

Easily identify cables, pipes, wires, equipment and more with these cable zip ties that have an integrated 0.80" L (20.2mm) x 0.36" W (9.1mm) labeling tab. Also known as flag cable ties, they are made of high-quality 6/6 nylon and have a durable locking mechanism that holds securely.

Identification wire ties are RoHS compliant, UL recognized, and UL 94 V-2 flammability rated. Able to withstand temperatures to 85 °C (185 °F), these cable zip ties have a melting point of 257 °C (495 °F) and remain flexible to -40 °C (-40 °F). Efficient range of ties may be higher or lower in your specific application.

Easily install by wrapping the tie around the bundle and threading the tail through the locking mechanism. Pull tight by hand and cut the tail to complete. Permanent marker is recommended for labeling on the tab for reduced risk of smudging. Isopropyl rubbing alcohol will remove permanent marker if relabeling is needed.

## Cole-Parmer® Heat-Resistant Cable Zip Ties, Polypropylene



### COLE-PARMER

Heat- and chemical-resistant for challenging environments

- Withstand temperatures to 115 °C (239 °F)
- Resistant to chemicals and salts
- Locking mechanism holds securely
- Bent tail for easy pick up and use

Polypropylene cable zip ties provide excellent resistance to chemicals and salts. They also have a wide operating temperature of -40 °C to 115 °C (-40 °F to 239 °F) making them ideal in situations where high heat could lead to melting of a nylon cable tie. A bent tail allows for easy pick up of the tie and threading through the lock. These ties are RoHS compliant, UL 94 HB flammability rated, and autoclavable.

Easily install by wrapping the tie around the bundle and threading the tail through the locking mechanism. Pull tight by hand and cut the tail to complete or use a tensioning tool—available separately.



## Cole-Parmer Electrical Tape, 8 mil, 3/4" x 66'. 66, Black

HomeElectrical ProductsElectrical Accessories"Cole-Parmer Electrical Tape, 8 mil, 3/4" x 66'. 66, Black"

Contact Us Print

Cole-Parmer Electrical Tape, 8 mil, 3/4" x 66'. 66, Black

Cole-Parmer Electrical Tape, 8 mil, 3/4

Zoom Image

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Add to Compare

Cole-Parmer – Item # EW-08277-09

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Soft PVC backing with flame-retardant rubber-based adhesive

\$14.50USD / Each

1

Add To Cart

+ADD TO LIST

Ships by December 31

Include today...

Cole-Parmer Clean Lab Wipes, 70% IPA Alcohol/30% DI Water, 6

Cole-Parmer Clean Lab Wipes, 70% IPA Alcohol/30% DI Water, 6" x 7.5"; 100 Wipes/Canister




\$31.00USD / Each

Specs & Description REVIEWS Q&A Customer Support

Specifications & Description

ColorBlackThickness (mil)8Width (in)3/4Length (ft)66Width (cm)1.9Length

(m)20.12DescriptionElectrical Tape, 8 mil, 3/4" x 66'. 66, Black

item	Color	Length (in)	Tensile Strength (lbs)
<div> EW-06830-85</div>	White	4	8
<div> EW-06830-95</div>	Black	8	25
<div> EW-06831-04</div>	White	4	8


# Cole-Parmer® Cable Zip Ties, Color Nylon











- COLE-PARMER
  - Color options for easy bundle identification
  - Holds securely—even in vibrating, oily, or wet environments
  - Won't corrode or stretch
  - Withstands temperatures to 85 °C (185 °F)
  - Available in tensile strengths of 18 or 40 lbs
- Available in five colors or assorted color packs, these high-quality 6/6 nylon cable zip ties provide a lasting solution for organization of your wire and cable bundles. They have a durable locking mechanism that holds securely, even when used to bundle vibrating or flexing materials. They will not corrode or stretch and will continue to hold tension even in oily spray or wet environments. A bent tail allows for easy pickup of the tie and threading through the lock.

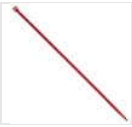



Able to withstand temperatures to 85 °C (185 °F), these cable/zip ties have a melting point of 257 °C (495 °F) and remain flexible to -40 °C (-40 °F). Efficient range of ties may be higher or lower in your specific application. They are RoHS compliant, UL recognized, and UL 94 V-2 flammability rated.





Easily install by wrapping the tie around the bundle and threading the tail through the locking mechanism. Pull tight by hand and cut the tail to complete or use a tensioning tool—available separately. For mounting wires and cables to walls or other surfaces, use Cole-Parmer® Self Adhering Cable Zip Tie Mounts—available separately.

item	Color	Length (in)	Tensile Strength (lbs)
<div>  EW-06830-31</div>	Red	7 29/32	40


item	Color	Length (in)	Tensile Strength (lbs)
 EW-06830-32	Blue	7 29/32	40
 EW-06830-33	Green	7 29/32	40
 EW-06830-41	Orange	7 29/32	40
 EW-06830-61	Red	4	18

item		Color	Length (in)	Tensile Strength (lbs)
	EW-06830-62	Blue	4	18
	EW-06830-63	Green	4	18
	EW-06830-64	Yellow	4	18
	EW-06830-65	Orange	4	18

item		Color	Length (in)	Tensile Strength (lbs)
 EW-06842-29		Red	4	18
 EW-06842-30		Green	4	18
 EW-06842-31		Yellow	4	18
 EW-06842-32		Orange	4	18

item		Color	Length (in)	Tensile Strength (lbs)
	EW-06842-33	Blue	4	18
	EW-06842-34	Assorted	4	18
	EW-06842-35	Red	8	40
	EW-06842-36	Blue	8	40

item		Color	Length (in)	Tensile Strength (lbs)
	EW-06842-37	Orange	8	40
	EW-06842-38	Yellow	8	40
	EW-06842-39	Green	8	40
	EW-06842-40	Yellow	8	40

item	Color	Length (in)	Tensile Strength (lbs)
<div data-bbox="126 255 258 378"></div> <div data-bbox="266 255 446 291">EW-06842-41</div>	Assorted	8	40

# Cole-Parmer® Cable Zip Ties, Black Nylon



## COLE-PARMER

Won't corrode or stretch





- Holds securely—even in vibrating, oily, or wet environments
  - Withstands temperatures to 85 °C (185 °F)
  - Carbon black allows for better UV resistance
  - Available in a variety of tensile strengths from 11 to 120 lbs
- Injection-molded of high quality 6/6 nylon, these solid cable/zip ties provide a lasting solution for organization of your wire and cable bundles. They have a durable locking mechanism that holds securely, even when used to bundle vibrating or flexing materials. They will not corrode or stretch and will continue to hold





tension even in oily spray or wet environments. Carbon black color provides extra UV resistance for a variety of indoor and outdoor uses. A bent tail allows for easy pickup of the tie and threading through the lock.





Able to withstand temperatures to 85 °C (185 °F), these cable zip ties have a melting point of 257 °C (495 °F) and remain flexible to -40 °C (-40 °F). Efficient range of ties may be higher or lower in your specific application. They are RoHS compliant, UL recognized, and UL 94 V-2 flammability rated.

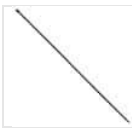



Easily install by wrapping the tie around the bundle and threading the tail through the locking mechanism. Pull tight by hand and cut the tail to complete or use a tensioning tool—available separately. For mounting wires and cables to walls or other surfaces, use Cole-Parmer® Self Adhering Cable Zip Tie Mounts—available separately.




item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
<div> EW-06830-48</div>	3	12	50

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06830-49	3	12	50
 EW-06830-68	29/32	4	18
 EW-06830-78	1 2/5	6	40
 EW-06830-88	2 1/10	7 29/32	40

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-00	27/64	2 1/2	11
 EW-06842-02	7/8	4	18
 EW-06842-03	1 3/8	6	18
 EW-06842-05	2 5/64	8	18

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-07	7/8	4	40
 EW-06842-11	2 5/64	8	40
 EW-06842-13	2 63/64	12	40
 EW-06842-15	4 1/50	14 1/2	40

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-17	4 21/64	17	40
 EW-06842-19	2 5/64	8	50
 EW-06842-20	2 5/64	8	50
 EW-06842-22	2 5/64	8	120

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-24	2 63/64	12	120
 EW-06842-26	4 1/50	14 1/2	120
 EW-06842-27	4 21/64	17	120


# Cole-Parmer® Cable Zip Ties, White Nylon





- COLE-PARMER  
Won't corrode or stretch
  - Holds securely—even in vibrating, oily, or wet environments
  - Withstands temperatures to 85 °C (185 °F)
  - Available in a variety of tensile strengths from 11 to 175 pounds
- Injection-molded of high-quality 6/6 nylon, these solid cable/zip ties provide a lasting solution for organization of your wire and cable bundles. They have a durable locking mechanism that holds securely, even when used to bundle vibrating or flexing materials. They will not corrode or stretch and will continue to hold tension even in oily spray or wet environments. A bent tail allows for easy pickup of the tie and threading through the lock.



Able to withstand temperatures to 85 °C (185 °F), these cable/zip ties have a melting point of 257 °C (495 °F) and remain flexible to -40 °C (-40 °F). Efficient range of ties may be higher or lower in your specific application. They are RoHS compliant, UL recognized, and UL 94 V-2 flammability rated.

Easily install by wrapping the tie around the bundle and threading the tail through the locking mechanism. Pull tight by hand and cut the tail to complete or use a tensioning tool—available separately. For mounting wires and cables to walls or other surfaces, use Cole-Parmer® Self Adhering Cable Zip Tie Mounts—available separately.

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
  EW-06830-30	2 1/10	7 29/32	40





item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06830-36	4	14 19/32	120
 EW-06830-39	7 19/64	28 2/5	120
 EW-06830-42	9 1/10	32 19/64	175
 EW-06830-43	2 1/10	7 29/32	50

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06830-46	3	12	50
 EW-06830-52	29/32	3 27/32	18
 EW-06830-54	1 2/5	6	40
 EW-06830-56	2 1/10	7 29/32	50

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06830-58	4	14 19/32	50
 EW-06830-66	29/32	4	18
 EW-06830-91	4	14 19/32	120
 EW-06842-01	27/64	2 1/2	11

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-04	1 3/8	6	18
 EW-06842-06	2 5/64	8	18
 EW-06842-08	7/8	4	40
 EW-06842-10	1 3/8	6	40

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-12	2 5/64	8	40
 EW-06842-14	2 63/64	12	40
 EW-06842-16	4 1/50	14 1/2	40
 EW-06842-18	4 21/64	17	40

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-21	2 63/64	12	50
 EW-06842-23	2 5/64	8	120
 EW-06842-25	2 63/64	12	120
 EW-06842-28	4 21/64	17	120

# Cole-Parmer® Reusable Releasable Cable Zip Ties, Black Nylon







- COLE-PARMER  
Unlock to remove and reuse
  - Environmentally friendly reusable design generates less waste
  - Simply unlock and open with one hand to easily move the tie, or add/delete bundle contents
  - Help saves reordering time and money in situations where reuse is possible
  - Withstands temperatures to 85 °C (185 °F)
- Reusable cable/zip ties have an extended tab that releases the closing mechanism allowing the tie to be opened easily with just one hand. They can be opened to allow items to be added or removed from the bundle, or for them to be used for a new purpose. The reusability helps save time, money,

and the environment.  
Made of high-quality 6/6 nylon, these ties hold securely, even when used to bundle vibrating or flexing materials, will not corrode or stretch, and will continue to hold tension even in oily spray or wet environments. Carbon black color provides extra UV resistance for a variety of indoor and outdoor uses.

Able to withstand temperatures to 85 °C (185 °F), these cable/zip ties have a melting point of 257 °C (495 °F) and remain flexible to -40 °C (-40 °F). Efficient range of ties may be higher or lower in your specific application. They are RoHS compliant, UL recognized, and UL 94 V-2 flammability rated.

Easily install by wrapping the tie around the bundle and threading the tail through the locking mechanism. Pull tight by hand to tighten. Cut the tail only if reuse is not desired. For mounting wires and cables to walls or other surfaces, use Cole Parmer® Self Adhering Cable Zip Tie Mounts—available separately.

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-42	1 11/64	4 1/2	40

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-44	1 3/8	6	40
 EW-06842-46	2 5/64	8	40
 EW-06842-47	2 9/16	10	40
 EW-06842-49	2 63/64	12	40

# Cole-Parmer® Reusable Releasable Cable Zip Ties, White Nylon

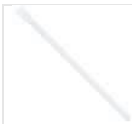






- COLE-PARMER  
Unlock to remove and reuse
    - Environmentally friendly reusable design generates less waste
    - Simply unlock and open with one hand to easily move the tie, or add/delete bundle contents
    - Help saves reordering time and money in situations where reuse is possible
    - Withstands temperatures to 85 °C (185 °F)
- Reusable cable/zip ties have an extended tab that releases the closing mechanism allowing the tie to be opened easily with just one hand. They can be opened to allow items to be added or removed from the bundle, or for them to be used for a new purpose. The reusability helps save time, money, and the environment.

Made of high-quality 6/6 nylon, these ties hold securely, even when used to bundle vibrating or flexing materials, will not corrode or stretch, and will continue to hold tension even in oily spray or wet environments.

Able to withstand temperatures to 85 °C (185 °F), these cable/zip ties have a melting point of 257 °C (495 °F) and remain flexible to -40 °C (-40 °F). Efficient range of ties may be higher or lower in your specific application. They are RoHS compliant, UL recognized, and UL 94 V-2 flammability rated.

Easily install by wrapping the tie around the bundle and threading the tail through the locking mechanism. Pull tight by hand to tighten. Cut the tail only if reuse is not desired. For mounting wires and cables to walls or other surfaces, use Cole-Parmer® Self Adhering Cable Zip Tie Mounts—available separately.

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06830-57	1 2/5	7 29/32	50

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-43	1 11/64	4 1/2	40
 EW-06842-45	1 3/8	6	40
 EW-06842-48	2 9/16	10	40
 EW-06842-50	2 63/64	12	40

# Cole-Parmer® Mountable Cable Zip Ties, White Nylon



## COLE-PARMER


Installs without additional clips or mounts




- Easily mount cable zip ties to any surface (hardware not included)
  - Durable locking mechanism holds bundles securely
  - Withstands temperatures to 85 °C (185 °F)
- These mountable, 6/6 nylon cable ties offer two products in one. Easily bundle cables together and permanently mount the ties to a wall, panel, or other surfaces using the integrated mounting eyelet on the cable tie head (hardware not included). No need for additional wall clips or mounts. The ties easily self-lock around bundles of wire or cable keeping them neat and organized. They will not corrode or stretch and will continue to hold tension even in oily spray or wet

environments.

Able to withstand temperatures to 85 °C (185 °F), these cable zip ties have a melting point of 257 °C (495 °F) and remain flexible to -40 °C (-40 °F). Efficient range of ties may be higher or lower in your specific application. They are RoHS compliant, UL recognized, and UL 94 V-2 flammability rated.

Easily install by wrapping the tie around the bundle and threading the tail through the locking mechanism. Pull tight by hand and cut the tail to complete or use a tensioning tool—available separately.

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-52	7/8	4 1/2	18

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06842-54	1 17/64	6	40
 EW-06842-56	1 31/32	8	50
 EW-06842-58	2 49/64	12	50



# Cole-Parmer® Beaded-Design Cable Zip Ties, White Polypropylene



Easy to cut

- Ideal for attaching tags and documents
  - Polypropylene, withstands temperatures up to to 110 °C (230 ° F)
- These economical, single-use beaded cable zip ties are ideal for temporary bundling of cables and wires and for attaching identification tags or documents to bundles or items. Made of polypropylene, they are able to withstand temperatures up to 110 °C (230 ° F) and have a melting point of 189 °C (372.2°F ). Cole-Parmer Beaded Ties are RoHS compliant, UL recognized, and UL 94 V-2 flammability rated.

Easily install by wrapping the tie around the bundle or through a holding area and threading the tail through the locking mechanism. Tighten to desired loop size.

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
  EW-06830-50	1 3/8	5 1/2	18
 EW-06842-60	1 31/32	7	18

# Cole-Parmer Tight-Ties Nylon Cable/Zip Ties, 8"; 100/PK



Zoom Image

Representative image only.

ADD TO

Cole-Parmer – Item # EW-98766-46

No ReviewsWrite the First Review

Chemical-resistant and corrosion-proof fasteners

- Nylon is corrosion-proof, chemical resistant, and non-conductive
- Tensile strength is 50 lbs

## Cole-Parmer® Mountable Cable Zip Ties, Black Nylon



- COLE-PARMER

Installs without additional clips or mounts

- Easily mount cable zip ties to any surface (hardware not included)
- Durable locking mechanism holds bundles securely
- Withstands temperatures to 85 °C (185 °F)





These mountable, 6/6 nylon cable ties offer two products in one. Easily bundle cables together and permanently mount the ties to a wall, panel, or other surfaces using the integrated mounting eyelet on the cable tie head (hardware not included). No need for additional wall

clips or mounts. The ties easily self-lock around bundles of wire or cable keeping them neat and organized. They will not corrode or stretch and will continue to hold tension even in oily spray or wet environments. Carbon black color provides extra UV resistance for a variety of indoor and outdoor uses.

Able to withstand temperatures to 85 °C (185 °F), these cable zip ties have a melting point of 257 °C (495 °F) and remain flexible to -40 °C (-40 °F). Efficient range of ties may be higher or lower in your specific application. They are RoHS compliant, UL recognized, and UL 94 V-2 flammability rated.

Easily install by wrapping the tie around the bundle and threading the tail through the locking mechanism. Pull tight by hand and cut the tail to complete or use a tensioning tool—available separately.

LESS -

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
<div data-bbox="126 288 256 412"></div> <div data-bbox="256 288 582 412">EW-06842-51</div>	7/8	4 1/2	18
<div data-bbox="126 719 256 842"></div> <div data-bbox="256 719 582 842">EW-06842-53</div>	1 17/64	6	40
<div data-bbox="126 1149 256 1272"></div> <div data-bbox="256 1149 582 1272">EW-06842-55</div>	1 31/32	8	50
<div data-bbox="126 1579 256 1702"></div> <div data-bbox="256 1579 582 1702">EW-06842-57</div>	2 49/64	12	50

# Cole-Parmer® Ladder Cable Zip Ties, White Nylon



## COLE-PARMER

Flexible ties bend easily

- Conforms to bundle shape
  - Locks strongly for a secure hold
  - Withstands temperatures to 85 °C (185 °F)
- Made of high-quality 6/6 nylon, these ladder style cable zip ties are strong, yet flexible enough to tightly conform to irregular shaped bundles. The durable locking mechanism holds securely, even when used to bundle vibrating or flexing materials. They will not corrode or stretch and will continue to hold tension even in oily spray or wet environments. A bent tail allows for easy pickup of the tie and threading through the lock.

Able to withstand temperatures to 85 °C (185 °F), these cable/zip ties have a melting point of 257 °C (495 °F) and remain flexible to -40 °C (-40 °F). Efficient range of ties may be higher or lower in your

specific application. They are RoHS compliant, UL recognized, and UL 94 V-2 flammability rated.

Easily install by wrapping the tie around the bundle and threading the tail through the locking mechanism. Pull tight by hand and cut the tail to complete or use a tensioning tool—available separately. For mounting wires and cables to walls or other surfaces, use Cole-Parmer® Self Adhering Cable Zip Tie Mounts — available separately.

item	Max Bundle Diameter (in)	Length (in)	Tensile Strength (lbs)
 EW-06830-20	2 1/10	7 1/2	40
 EW-06830-25	3	11 1/2	40

# Cole-Parmer® Self-Adhering Cable Zip Tie Mounts





## COLE-PARMER

Installs without tools or hardware

- Secures bundles to surfaces where mounting holes cannot be drilled
- High-strength adhesive securely sticks to solid, clean surfaces
- Speeds assembly – cable ties slide easily into mounts from any of four sides
- Conforms to minor surface irregularities

Nylon cable zip tie mounts have a strong adhesive to help support cable and wire bundles and are perfect for many areas where hardware mounting is not possible. Simply peel off backing and stick to glass, metal, plastic, or other solid, clean surface. They will conform to minor surface irregularities. The four-sided design allows cables to be inserted fast and easily from any side. These adhesive mounts

have a UL 94 V-2 flammability rating, an operating temperature of -30 °C (-22 °F) to 75 °C (167 °F), and a minimum installation temperature of 0 °C (32 °F).

item	Length (InchShort)	Compatible With	Width (in)
 EW-06830-70	0.84	18 to 40 lb cable ties	0.84
 EW-06830-80	1.09	40 to 50 lb cable ties	1.09

# Cole-Parmer® Viscosity Standards




Zoom Image



COLE-PARMER

Calibrated to a precision of  $\pm 0.2\%$  of viscosity

Standards are NIST-traceable and certified to ASTM D2162 under ISO/IEC 17025 guidelines. Calibrate kinematic and Saybolt viscosity equipment, both automatic and manual. A table on each bottle shows the approximate values for kinematic and Saybolt viscosity. Standards are supplied in 500-mL bottles and include full certification and a Material Data Safety Sheet.

Compare item	Description	Viscosity
<div><div>EW-98944-60</div></div>	NIST-Traceable Viscosity Standard, N.4; 500 mL	0.47 cSt at 68°F; 0.45 cSt at 77°F; 0.41 cSt at 100°F; 0.40 cSt at 104°F

Compare item	Description	Viscosity
<div><div>EW-98944-62</div></div> <div>—</div>	NIST-Traceable Viscosity Standard, N.8; 500 mL	0.95 cSt at 68°F; 0.89 cSt at 77°F; 0.77 cSt at 100°F; 0.75 cSt at 104°F
<div><div>EW-98944-64</div></div> <div>—</div>	NIST-Traceable Viscosity Standard, N1.0; 500 mL	1.3 cSt at 68°F; 1.2 cSt at 77°F; 1.0 cSt at 100°F; 0.97 cSt at 104°F
<div><div>EW-98944-66</div></div> <div>—</div>	NIST-Traceable Viscosity Standard, S3; 500 mL	4.6 cSt at 68°F; 4.0 cSt at 77°F; 3.0 cSt at 100°F; 2.9 cSt at 104°F; 2.4 cSt at 122°F; 1.2 cSt at 210°F; 1.2 cSt at 212°F
<div><div>EW-98944-68</div></div> <div>—</div>	NIST-Traceable Viscosity Standard, S6; 500 mL	10 cSt at 68°F; 8.7 cSt at 77°F; 6.0 cSt at 100°F; 5.7 cSt at 104°F; 4.5 cSt at 122°F; 1.9 cSt at 210°F; 1.9 cSt at 212°F

Compare item	Description	Viscosity
<div>EW-98944-70</div> <div>—</div>	NIST-Traceable Viscosity Standard, N10; 500 mL	21 cSt at 68°F; 17 cSt at 77°F; 11 cSt at 100°F; 10 cSt at 104°F; 7.3 cSt at 122°F; 2.7 cSt at 210°F; 2.7 cSt at 212°F
<div>EW-98944-72</div> <div>—</div>	NIST-Traceable Viscosity Standard, S20; 500 mL	43 cSt at 68°F; 34 cSt at 77°F; 20 cSt (96.6 sus) at 100°F; 18 cSt at 104°F; 13 cSt at 122°F; 4.0 cSt at 210°F; 3.9 cSt at 212°F
<div>EW-98944-74</div> <div>—</div>	NIST-Traceable Viscosity Standard, N35; 500 mL	77 cSt at 68°F; 59 cSt at 77°F; 35 cSt (152.1 sus) at 100°F; 29 cSt at 104°F; 20 cSt at 122°F; 5.3 cSt at 210°F; 5.2 cSt at 212°F
<div>EW-98944-76</div> <div>—</div>	NIST-Traceable Viscosity Standard, S60; 500 mL	165 cSt at 68°F; 121 cSt at 77°F; 60 cSt (281 sus) at 100°F; 54 cSt at 104°F; 35 cSt at 122°F; 7.7 cSt at 210°F; 7.5 cSt at 212°F

Compare item	Description	Viscosity
 EW-98944-78  —	NIST-Traceable Viscosity Standard, N100; 500 mL	372 cSt at 68°F; 268 cSt at 77°F; 128 cSt (592 sus) at 100°F; 114 cSt at 104°F; 70 cSt at 122°F; 13 cSt at 210°F; 13 cSt at 212°F
 EW-98944-80  —	NIST-Traceable Viscosity Standard, S200; 500 mL	672 cSt at 68°F; 468 cSt at 77°F; 200 cSt (955 sus) at 100°F; 181 cSt at 104°F; 107 cSt at 122°F; 18 cSt (88.2 sus) at 210°F; 17 cSt at 212°F
 EW-98944-82  —	NIST-Traceable Viscosity Standard, N350; 500 mL	1255 cSt at 68°F; 865 cSt at 77°F; 371 cSt at 100°F; 324 cSt at 104°F; 186 cSt at 122°F; 28 cSt (131.5 sus) at 210°F; 27 cSt at 212°F
 EW-98944-84  —	NIST-Traceable Viscosity Standard, S600; 500 mL	2184 cSt at 68°F; 1472 cSt at 77°F; 600 cSt at 100°F; 518 cSt at 104°F; 286 cSt (135.2 sfs) at 122°F; 37 cSt (174 sus) at 210°F; 37 cSt at 212°F

Compare item	Description	Viscosity
<div data-bbox="129 255 256 378">  </div> <div data-bbox="264 255 430 286">EW-98944-86</div> <div data-bbox="124 423 140 434">—</div>	<div data-bbox="579 286 887 349">NIST-Traceable Viscosity Standard, N1000; 500 mL</div>	<div data-bbox="1007 286 1361 412">4678 cSt at 68°F; 3089 cSt at 77°F; 1020 cSt at 104°F; 542 cSt at 122°F; 350 cSt at 140°F; 57 cSt at 212°F</div>
<div data-bbox="129 685 256 808">  </div> <div data-bbox="264 685 430 716">EW-98944-88</div> <div data-bbox="124 853 140 864">—</div>	<div data-bbox="579 716 887 779">NIST-Traceable Viscosity Standard, s2000; 500 mL</div>	<div data-bbox="1007 716 1370 878">8323 cSt at 68°F; 5422 cSt at 77°F; 2000 cSt at 100°F; 1719 cSt at 104°F; 889 cSt at 122°F; 87 cSt (405 sus) at 210°F; 83.3 cSt at 212°F</div>
<div data-bbox="129 1117 256 1240">  </div> <div data-bbox="264 1117 430 1149">EW-98944-90</div> <div data-bbox="124 1285 140 1296">—</div>	<div data-bbox="579 1149 887 1211">NIST-Traceable Viscosity Standard, N4000; 500 mL</div>	<div data-bbox="1007 1149 1374 1274">17,889 cSt at 68°F; 11,470 cSt at 77°F; 3448 cSt at 104°F; 1720 cSt at 122°F; 850 cSt at 140°F; 137 cSt at 210°F</div>
<div data-bbox="129 1547 256 1671">  </div> <div data-bbox="264 1547 430 1579">EW-98944-92</div> <div data-bbox="124 1715 140 1727">—</div>	<div data-bbox="579 1579 887 1641">NIST-Traceable Viscosity Standard, S8000; 500 mL</div>	<div data-bbox="1007 1579 1374 1704">34,931 cSt at 68°F; 22,383 cSt at 77°F; 8000 cSt at 100°F; 6710 cSt at 104°F; 3317 cSt at 122°F; 242 cSt at 212°F</div>

Compareitem	Description	Viscosity
<div></div> <div>EW-98944-94</div> <div>—</div>	NIST-Traceable Viscosity Standard, N15000; 500 mL	79,423 cSt at 68°F; 49,714 cSt at 77°F; 13,994 cSt at 104°F; 6650 cSt at 122°F; 3000 cSt at 140°F; 406 cSt at 212°F
<div></div> <div>EW-98944-96</div> <div>—</div>	NIST-Traceable Viscosity Standard, S30000; 500 mL	84,687 cSt at 77°F; 28,079 cSt at 100°F; 23,570 cSt at 104°F; 11,058 cSt at 122°F; 628 cSt at 212°F

# Cole-Parmer® Dry Well Inserts





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[COLE-PARMER](#)

Optimize performance of your calibrator

Parts and accessories for your Techne calibrators.

Compare item	Description
<div></div> <div>EW-08510-70</div> <div>—</div>	<div>Dry Well Inserts, 5 x 1/4"</div>
<div></div> <div>EW-16104-25</div> <div>—</div>	<div>Dry Well Inserts, 1/8", 3/16", 1/4", 5/16", 3/8"</div>

Compare item

Description



EW-16104-26

Dry Well Inserts, 2 x 1/4" and 2 x 3/8"

--



EW-16104-27

Dry Well Inserts, 2 x 1/4" and 2 x 1/2"

--



EW-16104-28

Dry Well Inserts, 1 x 1/4"

--



EW-16104-29

Dry Well Blank Insert, Aluminum

--

Compare item

Description



EW-16104-30

Dry Well Inserts, Aluminum Bronze,  
3/8", 5/16", 1/4", 3/16", 1/8" Probes



EW-16104-31

Dry Well Inserts, Aluminum Bronze,  
2 x 1/4" and 2 x 3/8" Probes



EW-16104-32

Dry Well Inserts, Aluminum Bronze,  
2 x 1/4" and 2 x 1/2" Probes



EW-16104-34

Dry Well Blank Insert, Aluminum  
Bronze

Compare item

Description



EW-16104-36

Dry Well Inserts, Aluminum Bronze,  
1 x 5/8" Probes

—



EW-16104-39

Dry Well Inserts, 1 x 9/16"

—



EW-16104-40

Dry Well Inserts, 1 x 5/8"

—



EW-16104-41

Dry Well Inserts, 1 x 11/16"

—

**Compareitem**



EW-16104-42

—

**Description**



Dry Well Inserts, 1 x 3/4" and 1 x 1/4"

# Cole-Parmer®Dry Block Temperature Calibrator Accessories

- [COLE-PARMER](#)

Various parts and accessories to change capacity, testing type, accuracy, or portability for your Cole-Parmer calibration calibrators.



Compare item	Description
<div></div> <div>EW-16104-43</div>	Soft Sided Carrying Case for Dry Block Calibrators
<div></div> <div>EW-16105-26</div>	Temperature Calibrator Carrying Case; Soft

Compareitem

Description



EW-16114-30

—

Probe Insert Block for Tecal  
140/425, 5 x 6 mm, Aluminum



EW-16114-31

—

Probe Insert Block for Tecal  
140/425, 8 x 1/8" + 6 mm, Aluminum



EW-16114-32

—

Probe Insert Block for Tecal  
140/425, 6.6 mm + 19.5 mm,  
Aluminum



EW-16114-34

—

Probe Insert Block for Tecal  
140/425, 16 mm, Aluminum

## Compare item



EW-16114-35

—

## Description

Probe Insert Block for Tecal  
140/425, 2 x 6 mm + 3 x 3.5 mm,  
Aluminum



EW-16114-36

—

Probe Insert Block for Tecal  
140/425, 10 + 8 + 6 + 4.5 + 3 mm,  
Aluminum



EW-16114-37

—

Probe Insert Block for Tecal  
140/425, 2 x 6 mm + 2 x 10 mm,  
Aluminum



EW-16114-38

—

Probe Insert Block for Tecal  
140/425, 2 x 6 mm + 2 x 12 mm,  
Aluminum

Compare item

Description



EW-16114-39

—

Probe Insert Block for Tecal  
140/425, 6 mm, aluminum



EW-16114-41

—

Probe Insert Block for Tecal  
140/425, 6 mm dia x 40 mm Deep,  
Aluminum



EW-16114-42

—

Probe Insert Block for Tecal  
140/425, 6 + 9 mm, aluminum



EW-16114-43

—

Probe Insert Block for Tecal  
140/425, 9 x 3.18 mm, aluminum

Compare item

Description



EW-16114-44

—

Probe Insert Block for Tecal  
140/425, 20 mm, aluminum



EW-16115-23

—

Probe Insert Block for Tecal 700X, 3  
mm, Aluminum Bronze



EW-16115-24

—

Probe Insert Block for Tecal 700X,  
4.5 mm, Aluminum Bronze



EW-16115-26

—

Probe Insert Block for Tecal 700X, 8  
mm, Aluminum Bronze

## Compare item



EW-16115-37

—

## Description

Probe Insert Block for Tecal  
650F/S/H, 5 x 6 mm, Aluminum  
Bronze



EW-16115-38

—

Probe Insert Block f/ Tecal 650, 10 +  
8 + 6.5 + 6 mm, Aluminum Bronze



EW-16115-43

—

Probe Insert Block for Tecal 650, 10  
+ 8 + 6 + 4.5 + 3 mm, Aluminum  
Bronze



EW-16115-44

—

Probe Insert Block for Tecal 650, 2 x  
6 mm + 2 x 10 mm, Aluminum  
Bronze

Compare item

Description



EW-16115-45

—

Probe Insert Block for Tecal 650, 2 x 6 mm + 2 x 12 mm, Aluminum Bronze



EW-16115-46

—

Probe Insert Block for Tecal 650F/S/H, 1 x 6 mm, Aluminum Bronze



EW-16115-47

—

Probe Insert Block for Tecal 650F/S/H, 19.5 mm, Aluminum Bronze



EW-16115-48

—

Probe Insert Block for Tecal 650, 10 + 8 + 6 + 4 + 3 mm, Aluminum Bronze

Compare item

Description



EW-16115-49

—

Probe Insert Block for Tecal  
650F/S/H, 12 mm, Aluminum Bronze



EW-16115-50

—

Probe Insert Block for Tecal  
650F/S/H, 15 mm, Aluminum Bronze



EW-16115-51

—

Probe Insert Block for Tecal  
650F/S/H, 7 x 3.5 mm, Aluminum  
Bronze



EW-16115-52




—

Probe Insert Block for Tecal  
650F/S/H, 20 mm, Aluminum Bronze

# Cole-Parmer® Tube Holder Discs for Cole-Parmer® TR-200 Series Tube Rotators

Quickly and easily replace tube holder without tools



item	Number of Tubes	Description
<div>EW-00077-15</div>	20	Tube Rotator Test Tube Holder Disc, 20 tube capacity
<div>EW-00077-17</div>	63	Tube Rotator Culture Tube Holder Disc, 12 mm dia tubes
<div>EW-00077-19</div>	63	Tube Rotator Culture Tube Holder Disc, 16 mm dia tubes

item	Number of Tubes	Description
 EW-00077-21	30	Tube Rotator Culture Tube Holder Disc, 26 mm dia tubes
 EW-00077-23		Tube Rotator Dual Tube Holder Disc Adapter
 EW-00077-25		Tube Rotator Microcentrifuge Tube Holder Replacement Clips





# Shaker Accessories







Parts and accessories to meet your shaking mixer application needs.





item	Description
 EW-04303-50Mfr # 0008017300	AS130.1 Universal Attachment Clamp for Platform Shaker
 EW-04303-52Mfr # 0003115000	AS130.2 Shaker Platform for Fixing Clip Attachments



item	Description
 <p>EW-04303-58Mfr # 1234300</p>	<p>AS2.1 Platform Shaker Fixing Clip; 25 mL Flask</p>
 <p>EW-04303-62Mfr # 1234600</p>	<p>AS2.4 Platform Shaker Fixing Clip; 200/250 mL Flask</p>
 <p>EW-04304-50Mfr # 3341201</p>	<p>Vortex 3 Shaker, Standard Attachment</p>
 <p>EW-04304-51Mfr # 0003342300</p>	<p>Vortex 3 Shaker, One Hand Attachment</p>
 <p>EW-04304-52Mfr # 0003342400</p>	<p>Vortex 3 Shaker, Universal Attachment</p>

item	Description
 EW-04304-53Mfr # 0003344300	Vortex 3 Shaker, Test tube insert, for 54 Eppendorf tubes
 EW-04726-07	Optional Head For 24 X 1.5 mL
 EW-04726-08	Optional Head For 1 Microplate
 EW-04726-09	Optional Head For 8 X 15 mL

item	Description
 EW-04726-11	Optional Head For 6 X 50 ml
 EW-04726-12	Optional Head For 12 X 1.5/2 ml
 EW-04726-13	Optional Head For 4 X 15 ml
 EW-07637-06	Rotisserie For 10 X 15 ml Tubes And 12 X 5/7 mL Tubes

item	Description
 EW-51300-50	Platform for Slow-Speed Orbital Shakers, Holds Nine 125 mL Flasks
 EW-51706-50Mfr # 30100	MaxQ Universal 11" x 13" shaker platform
 EW-51706-52Mfr # 30110	Universal 18" x 18" shaker platform
 EW-51706-70Mfr # 30175	Universal Microwell/deep well plate clamp

item	Description
 EW-51706-78Mfr # 30153	Universal 125 mL Erlenmeyer flask clamp
 EW-51706-80Mfr # 30154BI	Universal 250 mL Erlenmeyer flask clamp
 EW-51706-84Mfr # 30156BI	Universal 500 mL Erlenmeyer flask clamp
 EW-51706-86Mfr # 30157BI	Universal 1-L Erlenmeyer flask clamp


item	Description
 EW-51706-88Mfr # 30158	Universal 2-L Erlenmeyer flask clamp
 EW-51709-45Mfr # 300349	Adhesive Flask Mat (1 roll) 9" x 9"





# Argos Technologies® Rotisseries and Accessories for the RotoFlex and RotoFlex Plus Tube Rotators





Adapt to different racks without tools to accommodate a wide range of tubes

- Quickly and easily switch rotisseries for enhanced versatility
  - Compatible with the RotoFlex and RotoFlex Plus systems
- These rotisseries are compatible with the RotoFlex and RotoFlex Plus benchtop tube rotating shakers (sold separately). There are many paddle options to choose from based on number of tubes held as well as tube size that is accommodated.
- The magnetic platform, model 04397-42, can only be used with the RotoFlex Plus system. This is ideal to optimize Western Blot hybridization. Simply attach your plastic bag containing membrane and antibody solution to the plate using the metal strips provided. These magnetic strips can be purchased separately as well as part number 04397-43.

item	Description
<div>EW-04397-35</div>	Tube Rotator Rotisserie, 0.5 to 0.8 mL Tubes; 2/PK

item	Description
 EW-04397-36	Tube Rotator Rotisserie, 1.5 to 2.0 mL Tubes; 2/PK
 EW-04397-37	Tube Rotator Rotisserie, 5 to 7 mL Tubes; 2/PK
 EW-04397-38	Tube Rotator Rotisserie, 10 to 15 mL Tubes; 2/PK
 EW-04397-39	Tube Rotator Rotisserie, 50 mL Tubes; 1/Ea

item	Description
 EW-04397-42	RotoFlex Plus Magnetic Platform; 1/Ea
 EW-04397-43	RotoFlex Plus Magnetic Platform Strips; 4/Pk

# Cole-Parmer® Tube Roller Racks



Expands your tube roller shaker capacity


- Saves process time
- Accommodates 10 tubes
- Silicone rings offer smooth rotation
- Tubes snap securely into holder for stable hold
- Easily organize samples pre and post mixing
- Autoclavable at 121 °C


Each tube roller rack can accommodate up to 10 tubes, doubling or tripling the capacity of your tube roller shaker. The rack saves you processing time by reducing the number of roller cycles. No need to invest in multiple roller shakers since the tube roller rack handles numerous tube samples at the same time.

The tube holder axis is parallel to roller axis for pure horizontal rotation for controlled sample manipulation. The racks allow you to slow the effective rpm of the tube for a gentler mix.

Use it as an upright storage tube rack or submerge it in an ice bath. Made of polypropylene material, the racks are wear-resistant and offer reliable sterilization through autoclaving.

•

item	Length (in)	Max Tube Size (mL)	Max Tube Size (mm)
<div> EW-00602-00</div>	11	15	20

item	Length (in)	Max Tube Size (mL)	Max Tube Size (mm)
 EW-00602-01	9 2/5	7	17

# Cole-Parmer® Dry Block Heater Accessories





Optimize performance of your Stuart block heaters

The heater covers ensure temperatures are maintained in your dry block heaters. Model 36610-96 cover is suitable for use with two block heaters. Model 36610-97 is suitable for use with three block or dual control heaters.

The extraction tool, 36610-98, makes removing blocks from the heater quick and effortless.

item	Description
 EW-36610-96	Two Block Heater Cover

item	Description
 EW-36610-97	Three Block or Dual Control Heater Cover
 EW-36610-98	Extraction Tool for Block Heaters


# Cole-Parmer® Block Heat Inserts for Cole-Parmer® BH-200 and BH-250 Series Block Heaters and CB-200 Series Chiller/Heater







Interchangeable heating blocks offer excellent thermal conductivity





- Versatile—interchangeable heating blocks accommodate various tubes and plates
  - Block heaters sold separately
- Interchangeable aluminum heating blocks provide excellent thermal conductivity and accommodate various test tubes, cups, and plates. Depending on the combination of blocks selected, plastic spacers (36620-67) can be used to fill a half-width recess, ensuring optimal thermal performance. Most blocks come with a separate hole to accept a thermometer.





Order a flexi-block to accommodate multiple size tubes, vials, or cuvettes at once. Unskirted PCR plates can be heated in either size flexi-block. Skirted microtiter plates, deep-well plates, and PCR plates can only be incubated in the triple-width version.





item	Block Type	Number Of Blocks	Description
<div>EW-36610-40</div>	Ceramic beads/Aluminum	2	Block Heater Insert, Double Wide, Flexi-Block, Aluminum

item	Block Type	Number Of Blocks	Description
 EW-36610-41	Ceramic beads/Aluminum	3	Block Heater Insert, Triple Wide, Flexi-Block, Aluminum
 EW-36610-42	Aluminum	1	Block Heater Insert, Single Wide, Solid Aluminum
 EW-36610-44	Aluminum	1	Block Heater Insert, Single Wide, 10 mm Diameter Holes
 EW-36610-45	Aluminum	1	Block Heater Insert, Single Wide, 12 mm Dia x 47 mm Deep

item	Block Type	Number Of Blocks	Description
 EW-36610-46	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 12 mm dia x 33 mm Deep
 EW-36610-47	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 12 mm dia Holes
 EW-36610-48	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 13 mm dia Holes
 EW-36610-49	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 16 mm dia Holes

item	Block Type	Number Of Blocks	Description
 EW-36610-50	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 17 mm dia Holes
 EW-36610-51	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 19 mm dia Holes
 EW-36610-52	Aluminum	1	Block Heater Insert, Single Wide, 20 x 2 mL Tubes
 EW-36610-53	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, Cuvette and Pipette Channels

item	Block Type	Number Of Blocks	Description
 EW-36610-54	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 20 x 1.5 mL Tubes
 EW-36610-55	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 3 x 4 Array, 5 mL Tubes
 EW-36610-56	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 25 mm dia Holes
 EW-36610-57	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 28 mm dia Holes


item	Block Type	Number Of Blocks	Description
 EW-36610-58	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 30 x 0.5 mL Tubes
 EW-36610-59	Aluminum	1	Block Heater Insert, Single Wide, 30 mm Diameter Holes
 EW-36610-60	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 33 mm dia Holes
 EW-36610-61	Aluminum	2	Block Heater Insert, Double Wide, 384 Well Plate





item	Block Type	Number Of Blocks	Description
 EW-36610-62	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 48 x 0.2 mL Tubes
 EW-36610-63	Aluminum	1	Block Heater Insert, Single Wide, Aluminum, 80 x 0.2 mL Tube Strips
 EW-36610-64	Aluminum	2	Block Heater Insert, Double Wide, Aluminum, 96 Well Plate
 EW-36620-50	Aluminum	1	Dri-Block® Aluminum Insert, Blank with No Thermometer Hole



item	Block Type	Number Of Blocks	Description
 EW-36620-51	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 30 x 6 mm dia
 EW-36620-52	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 20 x 10 mm dia
 EW-36620-53	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 20 x 12 mm dia
 EW-36620-54	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 20 x 13 mm dia

item	Block Type	Number Of Blocks	Description
<div data-bbox="126 255 256 378">  </div> <div data-bbox="256 255 432 286">EW-36620-55</div>	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 12 x 15 mm dia
<div data-bbox="126 685 256 808">  </div> <div data-bbox="256 685 432 716">EW-36620-56</div>	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 12 x 16 mm
<div data-bbox="126 1115 256 1238">  </div> <div data-bbox="256 1115 432 1146">EW-36620-57</div>	Aluminum	1	Dri-Block® Aluminum Insert, 8 x 19 mm Dia, Conical Bottom
<div data-bbox="126 1545 256 1668">  </div> <div data-bbox="256 1545 432 1576">EW-36620-58</div>	Aluminum	1	Dri-Block® Aluminum Insert, 6 x 25 mm Dia, Conical Bottom

item	Block Type	Number Of Blocks	Description
 EW-36620-59	Aluminum	1	Dri-Block® Aluminum Insert, 2 x 13 mm Cuvette, Flat Bottom
 EW-36620-60	Aluminum	3	Dri-Block® Aluminum Insert, Blank with Thermometer Hole, Triple Wide
 EW-36620-61	Aluminum	1	Block Heater Insert, Blank with Thermometer Hole, Aluminum
 EW-36620-62	Aluminum	1	Dri-Block® Aluminum Insert, 30 x 7 mm & 10 x 9 mm Dia, Conical Bottom

item	Block Type	Number Of Blocks	Description
 EW-36620-63	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 6 X 24 mm dia
 EW-36620-64	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 6 X 26 mm dia
 EW-36620-65	Aluminum	1	Block Heater Insert, Tapered Bottom, Aluminum, 20 x 1.5 mL Tube
 EW-36620-66	Aluminum	1	Block Heater Insert, Tapered Bottom, Aluminum, 30 x 0.5 mL Tube

item	Block Type	Number Of Blocks	Description
 EW-36620-68	Aluminum	1	Dri-Block® Aluminum Heating Block Insert, 96-well plate, high-temperature
 EW-36620-69	Aluminum	1	Dri-Block® Aluminum Heating Block Insert, 96-well plate, round bottom
 EW-36620-70	Aluminum	1	Dri-Block® Aluminum Heating Block Insert, 96-well plate, flat bottom
 EW-36620-71	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 20 x 2 mL Tube

item	Block Type	Number Of Blocks	Description
 EW-36620-72	Aluminum	1	Dri-Block® Aluminum Insert, 72 X 0.2 mL Tube, Tapered Bottom
 EW-36620-73	Aluminum	2	Dri-Block® Aluminum Insert, 96-Well PCR Plate, Double Wide
 EW-36620-74	Aluminum	2	Dri-Block® Aluminum Insert, 96-Well x 1 mL Plate
 EW-36620-75	Aluminum	1	Block Heater Insert, Gelation Timer Cup, Flat Bottom, Aluminum,

item	Block Type	Number Of Blocks	Description
 <p>EW-36620-76</p>	Aluminum	2	Block Heater Insert, Double Wide, Aluminum, 384-Well PCR Plate
 <p>EW-36620-77</p>	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 5 x 50 mL Tubes
 <p>EW-36620-78</p>	Aluminum	2	Dri-Block® Aluminum Heating Block Insert, 96-Well, Flat Bottom & Perimeter
 <p>EW-36620-79</p>	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 5 x 30 mm dia Tube

item	Block Type	Number Of Blocks	Description
 EW-36620-80	Aluminum	1	Block Heater Insert, Flat Bottom, Aluminum, 2 x 43 mm dia Vessel
 EW-36620-81	Aluminum	1	Block Heater Insert, Conical Bottom, Aluminum, 8 x 20 mm dia Tube
 EW-36620-82	Aluminum	1	Block Heater Insert, Shallow, Conical Bottom, Aluminum, 20 x 12 mm Vial
 EW-36620-83	Aluminum	1	Dri-Block® Aluminum Heating Block Insert, 18 X 20 mm diameter

item	Block Type	Number Of Blocks	Description
<div data-bbox="124 253 256 376" data-label="Image"> </div> <div data-bbox="256 253 432 286" data-label="Text"> <p>EW-36620-84</p> </div>	Aluminum	1	Block Heater Insert, Aluminum, 4 x 43 mm Bottle
<div data-bbox="124 683 256 806" data-label="Image"> </div> <div data-bbox="256 683 432 716" data-label="Text"> <p>EW-36620-85</p> </div>	Aluminum	1	Dri-Block® Aluminum Insert, 20 x 12 mm Vial, Shallow, Flat Bottom
<div data-bbox="124 1115 256 1238" data-label="Image"> </div> <div data-bbox="256 1115 432 1149" data-label="Text"> <p>EW-36620-86</p> </div>	Aluminum	1	Block Heater Insert, Flat Bottom, Aluminum, 12 x 15 mm dia Vial
<div data-bbox="124 1543 256 1666" data-label="Image"> </div> <div data-bbox="256 1543 432 1576" data-label="Text"> <p>EW-36620-87</p> </div>	Aluminum	1	Block Heater Insert, Flat Bottom, Aluminum, 20 x 12 mm dia Vial


item	Block Type	Number Of Blocks	Description
 EW-36620-89	Aluminum	1	Block Heater Insert, Flat Bottom, Aluminum, 12 x 16 mm Vial
 EW-36620-90	Ceramic beads/Aluminum	2	Flexi-Block Insert with Beads, Double Wide
 EW-36620-91	Ceramic beads/Aluminum	3	Flexi-Block Insert with Beads, Triple Wide
 EW-36620-92	Aluminum	1	Block Heater Insert, Flat Bottom, Aluminum, 20 x 13 mm dia Vial

# Cole-Parmer® Benchtop Chilling/Heating/Mixing Blocks Accessories



## COLE-PARMER

Change the capacity of your dry block heater with interchangeable blocks.

item	Description
<div>EW-44175-15</div>	Aluminum Block, for 40 x 0.5 mL Microcentrifuge Tubes

item	Description
 EW-44175-20	Aluminum Block, for 30 x 1.5 mL Microcentrifuge Tubes
 EW-44175-30	Aluminum Block, for 96 x 0.2 mL PCR Plates or Strips
 EW-44175-35	Aluminum Block, for 40 x 0.5 mL and 15 x 1.5 mL Microcentrifuge Tubes
 EW-44175-36	Aluminum blocks, Flat Bottom for 96/384 Well Assay Plates


item	Description
 EW-44175-37	Aluminum Blocks, for 12 x 15/16mm ID Test Tubes
 EW-44175-38	Aluminum Blocks, for 20 x 12/13mm ID Test Tubes
 EW-44175-50	Cover, Plastic; for Aluminum Blocks





# Cole-Parmer® HT-200 Series Grounded Heating Tapes











Flexible heaters—fit metal pipes and glassware




- Maximum element temperature of 842°F (450°C)
  - Braided earth wire beneath the outer sheath
  - Approximately 25 mm wide
- The flexible fiberglass heating tapes are ideal for heating columns, pipes, valves, and transfer lines, where applications need to be observed. The heating element and braided ground wire are wound on a fiberglass core and covered in braided fiberglass outer sleeve. Tapes are not water-resistant; for use in dry conditions only. Tapes are supplied with 3.5" (9 cm) insulated unheated flexible leads at each end. **Warning:** Heating tapes should not be overlapped and require the use of a temperature or power controller sold separately.

item	Length (ft)	Max Temperature (° F)	Power (VAC)
 EW-36220-00	2	842	230

item	Length (ft)	Max Temperature (° F)	Power (VAC)
 EW-36220-01	2	842	115
 EW-36220-02	3	842	230
 EW-36220-03	3	842	115
 EW-36220-04	4	842	230

item	Length (ft)	Max Temperature (° F)	Power (VAC)
 EW-36220-05	4	842	115
 EW-36220-06	6	842	230
 EW-36220-07	6	842	115
 EW-36220-08	8	842	230

item	Length (ft)	Max Temperature (° F)	Power (VAC)
 EW-36220-09	8	842	115
 EW-36220-10	12	842	230
 EW-36220-11	12	842	115
 EW-36220-12	16	842	230

item	Length (ft)	Max Temperature (° F)	Power (VAC)
 EW-36220-13	16	842	115
 EW-36220-14	24	842	230
 EW-36220-15	32	842	230



# Cole-Parmer® Accessories for Cole-Parmer® SC-200 Series Sample Concentrator





## COLE-PARMER

Keep your sample concentrator up and running

Maintain your sample concentrator with the following needles and sealing pad.

item	Description
 EW-36620-67	Dri-Block® Heating Block Insert, Spacers; 2/pk
 EW-36620-96	Sample Concentrator Needles, SS, 76 mm; 100/Pk


item	Description
 EW-36620-97	Sample Concentrator Needles, SS, 127 mm; 100/Pk
 EW-36620-98	Sample Concentrator Needles, PTFE, 127 mm; 100/Pk
 EW-36620-99	Sample Concentrator Needles, PTFE, 76 mm; 100/Pk
 EW-99950-07	Replacement Gas Chamber Sealing Pad

# Cole-Parmer® Integrity 10, RS-200, and RS-250 Reaction Station Accessories



Keep your reaction station running smoothly with these parts and accessories


- Suitable for use with Cole-Parmer® Integrity 10, RS-200, or RS-250 series reaction stations  
Choose from a wide range of accessories suitable for your reaction station including reaction vessels, probes, and software.





item	Compatible With	Description
 EW-36630-51	Cole-Parmer Reaction Stations	Reaction Vessels, 100 mL; 6/Pk





item	Compatible With	Description
<div data-bbox="124 253 256 376" data-label="Image"> </div> <div data-bbox="256 253 584 376">EW-36630-52</div>	Cole-Parmer Reaction Stations	Reaction Vessels, 250 mL; 6/Pk
<div data-bbox="124 685 256 808" data-label="Image"> </div> <div data-bbox="256 685 584 808">EW-36630-53</div>	Cole-Parmer Reaction Stations	Reflux Reducer Columns; 6/Pk
<div data-bbox="124 1120 256 1243" data-label="Image"> </div> <div data-bbox="256 1120 584 1243">EW-36630-54</div>	Cole-Parmer Reaction Stations	Stir Bars, 15 x 10 mm; 6/Pk
<div data-bbox="124 1469 256 1592" data-label="Image"> </div> <div data-bbox="256 1469 584 1592">EW-36630-55</div>	Cole-Parmer Reaction Stations	Reaction Vessels, 50 mL; 6/Pk

item	Compatible With	Description
<div data-bbox="124 253 256 376" data-label="Image"> </div> <div data-bbox="256 253 584 376" data-label="Text"> <p>EW-36630-56</p> </div>	<p>Cole-Parmer Reaction Stations</p>	<p>Reducing Sleeves, 56 to 40 mm; 6/Pk</p>
<div data-bbox="124 683 256 806" data-label="Image"> </div> <div data-bbox="256 683 584 806" data-label="Text"> <p>EW-36630-57</p> </div>	<p>Cole-Parmer OS6000 Omni Reaction Stations</p>	<p>Cooling Plug for 6 x 56 mm Dry Block</p>
<div data-bbox="124 1115 256 1238" data-label="Image"> </div> <div data-bbox="256 1115 584 1238" data-label="Text"> <p>EW-36630-58</p> </div>	<p>Cole-Parmer OS6000 Omni Reaction Stations</p>	<p>Reflux/Inert Head for 6 x 56 mm Dry Block</p>
<div data-bbox="124 1545 256 1668" data-label="Image"> </div> <div data-bbox="256 1545 584 1668" data-label="Text"> <p>EW-36630-59</p> </div>	<p>Cole-Parmer OS6000 Omni Reaction Stations</p>	<p>Inerting Caps with Septum for 6 x 56 mm Blocks; 6/Pk</p>





item	Compatible With	Description
<div data-bbox="124 253 256 376" data-label="Image"> </div> <div data-bbox="256 253 584 286" data-label="Text"> <p>EW-36630-61</p> </div>	<div data-bbox="611 286 949 347" data-label="Text"> <p>Cole-Parmer RS-200 Series Reaction Stations</p> </div>	<div data-bbox="1038 286 1369 320" data-label="Text"> <p>Stir Bars, 25 x 14 mm; 6/Pk</p> </div>
<div data-bbox="124 607 256 730" data-label="Image"> </div> <div data-bbox="256 607 584 640" data-label="Text"> <p>EW-36630-70</p> </div>	<div data-bbox="611 640 949 701" data-label="Text"> <p>Cole-Parmer RS-200 Series Reaction Stations</p> </div>	<div data-bbox="1038 640 1398 701" data-label="Text"> <p>Temperature Probe, 100 Ohm Pt RTD</p> </div>
<div data-bbox="124 1039 256 1162" data-label="Image"> </div> <div data-bbox="256 1039 584 1072" data-label="Text"> <p>EW-36630-71</p> </div>	<div data-bbox="611 1072 949 1133" data-label="Text"> <p>Cole-Parmer RS-200 Series Reaction Stations</p> </div>	<div data-bbox="1038 1072 1347 1106" data-label="Text"> <p>Cooling Plug, 10 x 25 mm</p> </div>
<div data-bbox="124 1471 256 1594" data-label="Image"> </div> <div data-bbox="256 1471 584 1505" data-label="Text"> <p>EW-36630-72</p> </div>	<div data-bbox="611 1505 949 1565" data-label="Text"> <p>Cole-Parmer RS-200 Series Reaction Stations</p> </div>	<div data-bbox="1038 1505 1406 1538" data-label="Text"> <p>Reflux/Inert Head, 10 x 25 mm</p> </div>

item	Compatible With	Description
 <p>EW-36630-74</p>	<p>Cole-Parmer RS-200 and RS-250 Series Reaction Stations</p>	<p>Inerting Caps with Probe Hole; 10/PK</p>
 <p>EW-36630-75</p>	<p>Cole-Parmer Reaction Stations</p>	<p>Magnetic Stir Bars, PTFE Coated, 60 x 10 mm; 5/PK</p>
 <p>EW-36630-76</p>	<p>Cole-Parmer Reaction Stations</p>	<p>Magnetic Stir Bars, PTFE Coated, 40 x 8 mm; 5/PK</p>
 <p>EW-36630-80</p>	<p>Cole-Parmer Integrity 10 Reaction Station</p>	<p>Multi-Temp 10 Plug-In Box for Integrity 10</p>

item	Compatible With	Description
 EW-36630-81	Cole-Parmer Integrity 10 Reaction Station	Thermocouple Probes for Integrity 10; 6/PK
 EW-36630-82	Cole-Parmer Integrity 10 Reaction Station	Thermocouple Probes for Integrity 10; 10/PK
 EW-36630-83	Cole-Parmer Integrity 10, RS-200 and RS-250 Series Reaction Stations	Test Tubes, 24 to 16 Taper, 3 mL; 10/PK
 EW-36630-84	Cole-Parmer Integrity 10, RS-200 and RS-250 Series Reaction Stations	Test Tube Reducing Sleeves, 3 mL; 10/PK

item	Compatible With	Description
 <p data-bbox="264 253 432 286">EW-36630-85</p>	<p data-bbox="611 286 968 376">Cole-Parmer Integrity 10, RS-200 and RS-250 Series Reaction Stations</p>	<p data-bbox="1038 286 1362 376">Reflux/Inerting Test Tubes, SVL22 Threaded, 24 x 150 mm; 10/PK</p>
 <p data-bbox="264 685 432 719">EW-36630-86</p>	<p data-bbox="611 719 968 808">Cole-Parmer Integrity 10, RS-200 and RS-250 Series Reaction Stations</p>	<p data-bbox="1038 719 1393 775">Test Tube Reducing Sleeves, 1 mL; 10/PK</p>
 <p data-bbox="264 1115 432 1149">EW-36630-87</p>	<p data-bbox="611 1149 968 1238">Cole-Parmer Integrity 10, RS-200 and RS-250 Series Reaction Stations</p>	<p data-bbox="1038 1149 1339 1205">Test Tubes, 24 to 11 mm Taper, 1 mL; 10/PK</p>
 <p data-bbox="264 1547 432 1581">EW-36630-88</p>	<p data-bbox="611 1581 906 1637">Cole-Parmer Integrity 10 Reaction Station</p>	<p data-bbox="1038 1581 1406 1637">Intrusive IR Probe, Small, Stainless Steel, for Integrity 10</p>



item	Compatible With	Description
<div data-bbox="124 250 256 376" data-label="Image"> </div> <div data-bbox="256 250 584 376" data-label="Text"> <p>EW-36630-89</p> </div>	<p>Cole-Parmer Integrity 10 Reaction Station</p>	<p>Multi-Input Light Measurement Module for Integrity 10</p>
<div data-bbox="124 683 256 808" data-label="Image"> </div> <div data-bbox="256 683 584 808" data-label="Text"> <p>EW-36630-90</p> </div>	<p>Cole-Parmer Integrity 10 Reaction Station</p>	<p>Non-Intrusive IR Probe for Integrity 10</p>
<div data-bbox="124 1113 256 1238" data-label="Image"> </div> <div data-bbox="256 1113 584 1238" data-label="Text"> <p>EW-36630-91</p> </div>	<p>Cole-Parmer Integrity 10 Reaction Station</p>	<p>Intrusive IR/NIR Probe, Large for Integrity 10</p>
<div data-bbox="124 1543 256 1668" data-label="Image"> </div> <div data-bbox="256 1543 584 1668" data-label="Text"> <p>EW-36630-92</p> </div>	<p>Cole-Parmer Integrity 10 Reaction Station</p>	<p>Software for Integrity 10 Reaction Station</p>

item	Compatible With	Description
 EW-36630-94	Cole-Parmer Integrity 10 Reaction Station	Inerting Caps, Threaded, SVL 22 Thread; 10/PK
 EW-36630-95	Cole-Parmer Integrity 10 Reaction Station	Inerting Caps, Kimble Thread; 10/PK
 EW-36630-96	Cole-Parmer Integrity 10 Reaction Station	Kimble Glass Reflux/Inerting Tubes, Threaded, 24 x 150 mm; 10/PK
 EW-36630-97	Cole-Parmer Integrity 10 Reaction Station	Reflux/Inerting Unit for Integrity 10

item	Compatible With	Description
<div data-bbox="124 253 256 376" data-label="Image"> </div> <div data-bbox="256 253 584 376" data-label="Text"> <p>EW-36630-98</p> </div>	<p>Cole-Parmer Integrity 10, RS-200 and RS-250 Series Reaction Stations</p>	<p>Stir Bars, 10 x 6 mm, Oval; 10/PK</p>
<div data-bbox="124 607 256 730" data-label="Image"> </div> <div data-bbox="256 607 584 730" data-label="Text"> <p>EW-36630-99</p> </div>	<p>Cole-Parmer Integrity 10, RS-200 and RS-250 Series Reaction Stations</p>	<p>Stir Bars, 12 x 4.5 mm; 10/PK</p>

# Cole-Parmer® Heating Cartridges for Cole-Parmer® SHM-250 Series Digi-Mantle Heaters





item	Power (VAC)	Compatible With	Description
 EW-36204-01	230	Digi-Mantle heaters 36204-13, 36204-15, 36204-19, and 36204-23	Digi-Mantle Heating Cartridge, 100 to 250 mL; 230 VAC
 EW-36204-03	115	Digi-Mantle heaters 36204-17, 36204-21, 36204-25, and 36204-27	Digi-Mantle Heating Cartridge, 100 to 250 mL; 115 VAC

item	Power (VAC)	Compatible With	Description
 EW-36204-05	230	Digi-Mantle heaters 36204-13, 36204-15, 36204-19, and 36204-23	Digi-Mantle Heating Cartridge, 500 mL; 230 VAC
 EW-36204-07	115	Digi-Mantle heaters 36204-17, 36204-21, 36204-25, and 36204-27	Digi-Mantle Heating Cartridge, 500 mL; 115 VAC
 EW-36204-09	230	Digi-Mantle heaters 36204-13, 36204-15, 36204-19, and 36204-23	Digi-Mantle Heating Cartridge, 1000 mL; 230 VAC
 EW-36204-11	115	Digi-Mantle heaters 36204-17, 36204-21, 36204-25, and 36204-27	Digi-Mantle Heating Cartridge, 1000 mL; 115 VAC

# Cole-Parmer® Accessories for Cole-Parmer® RS-250D-S Shaking Reaction Stations



item	Description
 EW-36630-62	Mantle Temperature Probe, RTD
 EW-99968-05	Heating Block for RS-250D-S Shaking Reaction Stations, 4 x PTFE 96-Well Microplates

item	Description
<div data-bbox="124 253 256 376" data-label="Image"> </div> <div data-bbox="256 253 683 286" data-label="Text"> <p>EW-99968-07</p> </div>	<div data-bbox="707 286 1129 380" data-label="Text"> <p>Heating Block for RS-250D-S Shaking Reaction Stations, 96 x 16 mm Tubes</p> </div>
<div data-bbox="124 685 256 808" data-label="Image"> </div> <div data-bbox="256 685 683 719" data-label="Text"> <p>EW-99968-08</p> </div>	<div data-bbox="707 719 1129 813" data-label="Text"> <p>Heating Block for RS-250D-S Shaking Reaction Stations, 40 x 24 mm Tubes</p> </div>
<div data-bbox="124 1115 256 1238" data-label="Image"> </div> <div data-bbox="256 1115 683 1149" data-label="Text"> <p>EW-99968-11</p> </div>	<div data-bbox="707 1149 1137 1243" data-label="Text"> <p>Heating Block for RS-250D-S Shaking Reaction Stations, 96 x 1.5 mL Tubes</p> </div>


# Cole-Parmer® Multi-Element Probes for 500- and 750-Watt Ultrasonic Processors



Maximize productivity by processing numerous samples simultaneously

- Probes process from 250 µL to 10 mL sample volume
  - Energy delivered to each tip is uniform with 2% variation
- The multi-element probes screw into the converter in place of the 1/2" (13 mm) probe. The energy delivered to each tip is uniform with 2% variation. The spacing between the tips is 2 2/32" (18 mm). Coupler and stepped microtips measure 10 1/4" (260 mm) long. Probes process from 250 µL to 10 mL sample volume and consist of aluminum coupling and 4-, 8-, or 24-element probes.

item	Max Sample Size (mL)	Description
<div>EW-04712-30</div>	10	Ultrasonic Four-Element Probe; 1/8" Dia

item	Max Sample Size (mL)	Description
<div>EW-04712-32</div>	10	Ultrasonic Eight-Element Probe; 1/8" Dia

Cole-Parmer Eight-element probe for 130-Watt ultrasonic processors



Cole-Parmer – Item # EW-04712-08

- 3 year warranty

Specifications & Description

• Description	Eight-element probe for 130-Watt ultrasonic processors
• Warranty	3 year

## MORE ABOUT THIS ITEM


This eight-element probe provides cost-effective processing of 250 µL to 2 mL samples simultaneously. The energy delivered to each tip is identical and approximately the wattage delivered by the power supply divided by the number of microtips. The probe consists of an aluminum coupler and eight microtips spaced 23/64" (9 mm) apart. Order power supply separately.



## Cole-Parmer® Stainless Steel Generator Probes for Cole-Parmer® HO-600 Homogenizers



Easily handles fine to medium samples

- Resistant to most organic solvents
- Easy to disassemble and clean
- These stainless-steel generator probes feature a stator design which allows fine to medium samples to pass through the processing windows. The probes can be easily disassembled for cleaning and are available with PTFE lower and stainless-steel upper bearings.

item	Material	Max Sample Size (mL)	Min Sample Size (mL)
 EW-78904-75	316 Stainless Steel	5	0.2



item	Material	Max Sample Size (mL)	Min Sample Size (mL)
 EW-78904-76	316 Stainless Steel	5	0.2
 EW-78904-77	316 Stainless Steel	100	1.5

# Cole-Parmer® Ultrasonic Processor Sound Enclosure



Extends processing by reducing noise

The sound enclosure reduces the noise generated by ultrasonic processing down to comfortable working levels. Access ports are available on both sides and top of the enclosure.

item	Description
 EW-04710-48	Ultrasonic Processor Sound-Abating Enclosure, 30.5"H
 EW-04712-50	Ultrasonic Processor Sound-Abating Enclosure, 20"H

# Cole-Parmer Micro Cup Horn for Ultrasonic Processor



Cole-Parmer – Item # EW-04712-17

## Specifications & Description

- Description Micro Cup Horn for Ultrasonic Processor
- Warranty 3 year

**3**  
YEAR  
Warranty

### MORE ABOUT THIS ITEM

Horn lets you process samples in absolute isolation without probe intrusion. Ideal for pathogenic, radioactive, or biohazardous materials.

Screw cup horn onto your inverted converter then fill with water and suspend test tube inside. Vibrations are transmitted through the water and induce cavitation. ID is 25 mm.

# Cole-Parmer® Continuous Flow Cell



Recommended for the treatment of low-viscosity samples where the required insonation time is short

- Made of autoclavable stainless steel
- This low-volume cell screws onto the standard 2" dia probe and forces all of the sample solution to pass across the probe face. Use the cell to emulsify, disperse, and homogenize samples at flow rates up to 5 GPH (19 liters/hour). Fittings accept 16" ID soft tubing.

item	Description
<div data-bbox="126 1046 256 1167"></div> <div data-bbox="264 1046 430 1075">EW-04710-93</div>	<div data-bbox="710 1077 1099 1137">Ultrasonic Processor Continuous Medium Flow Cell</div>
<div data-bbox="126 1476 256 1597"></div> <div data-bbox="264 1476 430 1505">EW-04710-97</div>	<div data-bbox="710 1509 1141 1601">Replacement probe for Ultrasonic Processor Continuous Medium Flow Cell</div>

Cole-Parmer Solid high-gain probes; with 1" tip diameter

Cole-Parmer – Item # EW-04710-59

Specifications & Description

• Max Sample Size (mL)	1000
• Tip Diameter (in)	1
• Tip Diameter (cm)	2.54
• Description	Solid high-gain probes; with 1" tip diameter
• Warranty	1 year



MORE ABOUT THIS ITEM

Probes (sometimes referred to as horns) are one-half wavelength long tools that act as mechanical transformers to increase the amplitude of vibration generated by the converter. They consist of two sections each having different cross-sectional areas. When driven at its resonant frequency, the probe expands and contracts longitudinally about its center. However, no longitudinal motion occurs at the threaded nodal point (area of no activity), allowing accessories to be connected to the probe at that point. The greater the mass ratio between the upper section and the lower section, the greater the amplification factor. Probes with smaller tip diameters produce greater intensity of cavitation, but the energy released is restricted to a narrower, more concentrated field. Conversely, probes with larger tip diameters produce less intensity, but the energy is released over a greater area. The larger the tip diameter, the larger the volume that can be processed, but at lower intensity. High gain probes produce higher intensity than standard probes of the same diameter, and are usually recommended for processing larger volumes or difficult applications.

# Cole-Parmer® Threaded Probes with Replaceable Tip for 500- and 750-Watt Ultrasonic Processors



One-half wavelength long tools that act as mechanical transformers to increase the amplitude of vibration generated by the converter

- Probes are fabricated from high grade titanium alloy Ti-6Al-4V because of its high tensile strength, good acoustical properties at ultrasonic frequencies, high resistance to corrosion, low toxicity, and excellent resistance to cavitation erosion. They are autoclavable.
- Probes (sometimes referred to as horns) are one-half wavelength long tools that act as mechanical transformers to increase the amplitude of vibration generated by the converter. They consist of two sections each having different cross-sectional areas. When driven at its resonant frequency, the probe expands and contracts longitudinally about its center. However, no longitudinal motion occurs at the threaded nodal point (area of no activity), allowing accessories to be connected to the probe at that point. The greater the mass ratio between the upper section and the lower section, the greater the amplification factor. Probes with smaller tip diameters produce greater intensity of cavitation, but the energy released is restricted to a narrower, more concentrated field. Conversely, probes with larger tip diameters produce less intensity, but the energy is released over a greater area. The larger the tip diameter, the larger the volume that can be processed, but at lower intensity. High gain probes produce higher intensity than standard probes of the same diameter, and are usually recommended for processing larger volumes or difficult applications. Probes are fabricated from high grade titanium alloy Ti-6Al-4V because of its high tensile strength, good acoustical properties at ultrasonic frequencies, high resistance to corrosion, low toxicity, and excellent resistance to cavitation erosion. They are autoclavable, and available with threaded ends to accept replaceable tips, microtips and extenders. Order replacement tips separately.

item

Tip Diameter (in)



EW-04710-31

0.5



EW-04710-33

0.75



EW-04710-35

1

# Cole-Parmer® Solid Probes for 500- and 750-Watt Ultrasonic Processors





One-half wavelength long tools that act as mechanical transformers to increase the amplitude of vibration generated by the converter

- Probes are fabricated from high grade titanium alloy Ti-6Al-4V because of its high tensile strength, good acoustical properties at ultrasonic frequencies, high resistance to corrosion, low toxicity, and excellent resistance to cavitation erosion

- They are autoclavable

Probes (sometimes referred to as horns) are one-half wavelength long tools that act as mechanical transformers to increase the amplitude of vibration generated by the converter. They consist of two sections each having different cross-sectional areas. When driven at its resonant frequency, the probe expands and contracts longitudinally about its center. However, no longitudinal motion occurs at the threaded nodal point (area of no activity), allowing accessories to be connected to the probe at that point. The greater the mass ratio between the upper section and the lower section, the greater the amplification factor. Probes with smaller tip diameters produce greater intensity of cavitation, but the energy released is restricted to a narrower, more concentrated field. Conversely, probes with larger tip diameters produce less intensity, but the energy is released over a greater area. The larger the tip diameter, the larger the volume that can be processed, but at lower intensity. High gain probes produce higher intensity than standard probes of the same diameter, and are usually recommended for processing larger volumes or difficult applications.


item	Tip Diameter (in)
 EW-04710-51	0.5
 EW-04710-55	1

# Cole-Parmer® SamplePrep Geno/Grinder® Homogenizer Accessories



Get the most out of your Cole-Parmer® homogenizer

- Choose from a wide range of accessories for your homogenizer  
Optimize your homogenizer with these quality accessories.

item	Use with Generators	Description
<div>EW-04575-73</div>	Extractor 04575-79 and Center cylinders 04577-01	Cryogenic Grinding Vial Set; 4/PK

item	Use with Generators	Description
 EW-04575-79	Vials 04575-73	Extractor for Grinding Vials 04575-73; 1/EA
 EW-04575-82	Deep-well microplate 04500-32	Geno/Grinder® Homogenizer Cryo Adapter for 96-Well Microplate with Round Wells, Aluminum; 2/PK
 EW-04576-85	5/32" (4 mm) balls 04500-19	Magnetic Tips; 12/PK
 EW-04576-86	5/32" (4 mm) balls 04500-19	Magnetic Tips; 96/PK

item	Use with Generators	Description
 EW-04576-88	Adjustable clamp 04605-08	Cryoplate; 1/EA
 EW-04577-01	Vial set 04575-73	Center Cylinders for Cryogenic Grinding Vial Set, Polycarbonate; 20/PK

# Specifications & Description

• Description	Homogenizer Stand with Support Rod
• Warranty	1 Year




## MORE ABOUT THIS ITEM



Supports and stands to make using your homogenizer easier.  
Use with 125 and 700 models.

# Cole-Parmer® Extenders for 500- and 750-Watt Ultrasonic Processors



- Extenders are fabricated from titanium alloy TI-6AL-4V
  - Autoclavable
- Extenders screw into threaded end probes of identical diameter in place of the replaceable tip. Recommended when working with tall narrow vessels such as Erlenmeyer flasks.

item	Tip Diameter (cm)	Tip Diameter (in)	Description
 EW-04710-80	1.27	0.5	Threaded Ultrasonic Probe Extender for 1/2" Dia. Horn

item	Tip Diameter (cm)	Tip Diameter (in)	Description
 EW-04710-81	1.905	0.75	Threaded Ultrasonic Probe Extender for 3/4" Dia. Horn
 EW-04710-82	2.54	1	Threaded Ultrasonic Probe Extender for 1" Dia. Horn

# Cole-Parmer® Generator Probes for Cole-Parmer® HO-200 and HO-400 Series Homogenizers











Choose the generator based on the dispersion, tissue type, and or sample size


- Applications include large volume emulsions, suspensions, and dispersions for liquid/liquid or solid/liquid. Select from stainless steel (SS) or disposable polycarbonate (PC) generators. Stainless steel probes are ideal for larger samples. Disposable probes are ideal for when cross contamination may be of concern.

item	Material	Max Sample Size (mL)	Min Sample Size (mL)
 EW-04727-33	Stainless steel	30	0.25
 EW-04727-35	Stainless steel	30	0.25
 EW-04727-37	Stainless steel	100	1.5
 EW-04727-39	Stainless steel	100	1.5

item	Material	Max Sample Size (mL)	Min Sample Size (mL)
 EW-04727-41	Stainless steel	2000	100
 EW-04727-43	Stainless steel	2000	100
 EW-04727-45	Stainless steel	5000	200
 EW-04727-46	Stainless steel	5000	200

item	Material	Max Sample Size (mL)	Min Sample Size (mL)
<div data-bbox="126 253 256 378"></div> EW-04727-60	Stainless steel	5	0.05
<div data-bbox="126 683 256 808"></div> EW-04727-62	Stainless steel	5	0.05
<div data-bbox="126 1115 256 1240"></div> EW-04727-84	Polycarbonate	30	0.25
<div data-bbox="126 1543 256 1668"></div> EW-04727-85	Polycarbonate	30	0.25

item	Material	Max Sample Size (mL)	Min Sample Size (mL)
 EW-04727-86	Polycarbonate	30	0.25
 EW-04727-87	Polycarbonate	30	0.25
 EW-78904-78	Stainless steel, Ultem	30	0.25
 EW-78904-79	Ultem	30	0.25


item	Material	Max Sample Size (mL)	Min Sample Size (mL)
 EW-78904-80	Polycarbonate	30	0.25

# Cole-Parmer® Tapered Microtips for 500- and 750-Watt Ultrasonic Processors



Microtips can process small samples at very high intensity

- Use with threaded end probes  
The tapered microtip screws in the 1/2" (13 mm) threaded end probe in place of the replaceable tip. The stepped microtip assembly consists of two parts—a microtip and a coupler.



item	Tip Diameter (in)
 EW-04710-42	0.125



item	Tip Diameter (in)
 EW-04710-44	0.188
 EW-04710-46	0.25

# Cole-Parmer® Replacement Probes and Microtips



Probes are made of titanium and are autoclavable. Optional 2-mm probe fits into microcentrifuge tubes; use to process small-volume samples.

item	Description
 EW-04710-85	Coupler for 500- and 750-Watt Processors
 EW-04712-10	Threaded Ultrasonic Probe Tip, Stepped; 1/16" (2mm) Dia

item	Description
 EW-04712-12	Threaded Ultrasonic Probe Tip, Stepped; 1/8" (3mm) Dia
 EW-04712-14	Threaded Ultrasonic Probe Tip, Stepped; 1/4" (6mm) Dia
 EW-04712-18	Probe, 13-mm (1/2"); for 50 to 150 mL samples

# Cole-Parmer Ultrasonic Processor Glass Cooling Cell; 300 mL



## Specifications & Description

- Max Sample Size (mL)300
- DescriptionUltrasonic Processor Glass Cooling Cell; 300 mL
- Warranty1 year

**1**  
YEAR  
Warranty

### MORE ABOUT THIS ITEM



This cooling cell allows thorough and uniform treatment at low temperatures. The liquid circulates repeatedly under the probe and through the three cooling arms.


# Cole-Parmer® Replacement Probes and Microtips



Probes are made of titanium and are autoclavable. Optional 2-mm probe fits into microcentrifuge tubes; use to process small-volume samples.

\$

item	Description
 EW-04710-85	Coupler for 500- and 750-Watt Processors
 EW-04712-10	Threaded Ultrasonic Probe Tip, Stepped; 1/16" (2mm) Dia

item	Description
 EW-04712-12	Threaded Ultrasonic Probe Tip, Stepped; 1/8" (3mm) Dia
 EW-04712-14	Threaded Ultrasonic Probe Tip, Stepped; 1/4" (6mm) Dia
 EW-04712-18	Probe, 13-mm (1/2"); for 50 to 150 mL samples

# Cole-Parmer Ultrasonic Processor Stainless Steel Temperature Probe



## Specifications & Description

- DescriptionUltrasonic Processor Stainless Steel Temperature Probe
- Warranty3 year

**3**  
YEAR  
Warranty

### MORE ABOUT THIS ITEM

The temperature probe used in conjunction with ultrasonic processors with temperature controller prevents harmful overheating of the sample by terminating the ultrasonic when the sample reaches a predetermined temperature limit.

Use probe with 500- and 750-watt ultrasonic processors 04711-30, 04711-35, 04711-40, and 04711-45.

# Cole-Parmer Ultrasonic Processor Foot Switch, 6-ft Cable



Cole-Parmer – Item # EW-04712-05

• <sup>3</sup> **Specifications & Description**

• Description	Ultrasonic Processor Foot Switch, 6-ft Cable
• Warranty	3 year



**MORE ABOUT THIS ITEM**

Optional foot switch allows hands-free operation of ultrasonic processors. Includes 6-ft cable.



# Cole-Parmer® Motorized Pestle Mixer



Quickly homogenize cells, plant tissue, and DNA pellets within microtube vials

- Use with available microtubes free of DNase, RNase, and pyrogens to eliminate sample contamination  
Use the battery-operated motor mixer with pestles and microtubes to drastically reduce hand fatigue when mixing multiple samples. Cell tissue and pellets are completely homogenized within seconds by means of high-speed vortexing action. Order pestles and tubes separately. The replacement rubber adapter, model 44468-26, is the adapter only, and is only compatible with the 44468-25 pestle mixer. This adapter attaches the motorized mixer to the pestle connector.

## 2 PRODUCT OPTIONS



item	Material	Description
<div>  EW-44468-25</div>	Mixed Metal and Plastic	Battery-Operated Pestle Motor Mixer
<div>  EW-44468-26</div>	Silicone	Replacement Pestle/Mixer Adapter for Motor




# Cole-Parmer® Glass Vessels for PTFE Tissue Grinders



Glass vessels range in capacity from 2 mL to 50 mL

These tissue grinders are capable of reducing cellular tissue to primary cells. Glass vessels are made of precision borosilicate glass. Grinding chamber clearance is 0.15 to 0.25 mm.

item	Capacity (Liters)	Capacity (mL)	Material
<div>EW-44468-13</div>	0.002	2	Glass
<div>EW-44468-14</div>	0.005	5	Glass

item		Capacity (Liters)	Capacity (mL)	Material
	EW-44468-15	0.01	10	Glass
	EW-44468-16	0.015	15	Glass
	EW-44468-17	0.03	30	Glass
	EW-44468-18	0.05	50	Glass

# Cole-Parmer® Pellet Mixer Pestles and Microtubes



Quickly homogenize cells, plant tissue, and DNA pellets within microtube vials

- Free of DNase, RNase, and pyrogens to eliminate sample contamination  
Plastic pestles and tubes are designed to homogenize cells and plant tissue or to resuspend protein and DNA pellets. They are DNAase/RNAase and pyrogen free, and come individually wrapped to guarantee purity. The pestle features a grooved grip, making it easy to turn without slipping, even while wearing gloves. Pestle length is 3" (7.5 cm). Both pestle and tube are autoclavable. Compatible with model 44468-25 pestle mixer, order separately.

item	Description
  EW-44468-19	  Pestle for 1.5 mL Microtube, 100/pk

item

Description



EW-44468-20

Pestle for 0.5 mL Microtube, 100/pk



EW-44468-21

Pellet Mixer Microtube, 1.5 mL;  
100/Pk



Pestle and 1.5 mL Microtube, 100/pk

EW-44468-23



EW-44468-24


Pestle and 0.5 mL Microtube, 100/pk

# Cole-Parmer® Ultrasonic Processor Cup Horn for 500- and 750-Watt Ultrasonic Processors



Process a sample in isolation from the probe

- Cooling water can be circulated through the cup during operation  
Use this cup horn to process a sample in absolute isolation from the probe. The horn is especially useful for processing samples that must be kept in a sealed vessel, such as pathogens. The ultrasonic vibrations are transmitted through the water in the cup causing cavitation in the sample vessel.


item	Tip Diameter (cm)	Tip Diameter (in)	Description
 EW-04710-38	6.35	2.5	Ultrasonic Processor Cup Horn, 2-1/2" Dia
 EW-04710-43	0.47752	0.188	Ultrasonic Processor Cup Horn Microtube Holder





# Cole-Parmer® PTFE Tissue Grinders (Plain tip plungers)



Plain tip plungers effectively homogenize a variety of tissue samples

- Capable of reducing cellular tissue to primary cells
  - Plunger head is pure PTFE with 6.5 mm stainless steel shaft
- These tissue grinders are capable of reducing cellular tissue to primary cells. Glass tubes are made of precision borosilicate glass. The pure PTFE plunger head is threaded onto a 6.5 mm stainless steel shaft. Grinding chamber clearance is 0.15 to 0.25 mm.

item	Capacity (mL)	Dispersion Type	Overall Length (mm)
<div>EW-44468-01</div>	2	Fine	230
<div>EW-44468-02</div>	5	Fine	235


item	Capacity (mL)	Dispersion Type	Overall Length (mm)
 EW-44468-03	10	Fine	270
 EW-44468-04	15	Fine	270
 EW-44468-05	30	Fine	270
 EW-44468-06	50	Fine	270

# Cole-Parmer® Support Stand and Converter Clamps



Enhance the performance of your ultrasonic processor

- Compatible with Cole-Parmer 500- and 700-Watt ultrasonic processors  
Choose from a wide range of accessories including support stands and converter clamps for your Cole-Parmer 500- and 700-Watt ultrasonic processors.



item	Compatible With	Description
<div>EW-04712-92</div>	Cole-Parmer 500 -700 watt ultrasonic processors	Support Stand, (9"L x 5-1/2" base) with 24"H x 1/2" dia. stainless steel rod


item	Compatible With	Description
 EW-04714-90	Cole-Parmer 500 to 700 watt ultrasonic processors	Light-duty Converter Clamp for 130-Watt Ultrasonic Processors, fits 1/2" dia rod
 EW-04714-91	Cole-Parmer 500 to 700 watt ultrasonic processors	Light-duty Converter Clamp for 500- and 750-watt Units, Fits 1/2" dia rod

# Cole-Parmer® Replacement Threaded Tips for 500- and 750-Watt Ultrasonic Processors



- Autoclavable  
The replaceable tip is for use with threaded probes and is fabricated from titanium alloy Ti-6Al-4V.

item	Tip Diameter (cm)	Tip Diameter (in)	Description
 EW-04710-40	1.27	0.5	Threaded Ultrasonic Probe Tip, Flat; 1/2" Dia
 EW-04710-41	1.905	0.75	Threaded Ultrasonic Probe Tip, Flat; 3/4" Dia

item	Tip Diameter (cm)	Tip Diameter (in)	Description
<div data-bbox="126 255 256 378"></div> <div data-bbox="256 255 585 378">EW-04710-47</div>	2.54	1	Replacement Threaded Tip 1 in tip (flat)



# Cole-Parmer® Serrated Tip PTFE Tissue Grinders







Serrated tip plungers effectively homogenize a variety of tissue samples

- Disposable pestles and glass tubes reduce cross-contamination
  - Glass tubes range in capacity from 2 mL to 50 mL
  - Serrated tip plungers effectively grind hard tissues
- These tissue grinders are capable of reducing cellular tissue to primary cells. Glass tubes are made of precision borosilicate glass. The pure PTFE plunger head is threaded onto a 6.5 mm stainless steel shaft. Grinding chamber clearance is 0.15 to 0.25 mm.

•

item	Capacity (mL)	Dispersion Type	Overall Length (mm)
 EW-44468-07	2	Fine	230
 EW-44468-08	5	Fine	235


item		Capacity (mL)	Dispersion Type	Overall Length (mm)
 EW-44468-09		10	Fine	270
 EW-44468-10		15	Fine	270
 EW-44468-11		30	Fine	270
 EW-44468-12		50	Fine	270

# Cole-Parmer® SamplePrep HG-400 MiniG® Homogenizer Accessories




Accommodates a full range of sample vials with an adjustable clamp

- Optimize performance of your HG-400 MiniG® homogenizer  
Multiple inserts are available for a variety of homogenizing applications.

item	Material	Description
 EW-04500-09	Aluminum	MiniG® Homogenizer Cryo-Block, Aluminum, 48 x 2 mL Vials; 1/EA

item	Material	Description
 EW-04500-11	Aluminum	MiniG® Homogenizer Cryo-Block, Aluminum, 24 x 5 mL Vials; 1/EA
 EW-04500-12	Foam	MiniG® Homogenizer Foam Blocks, 24 x 5 mL Vials; 2/PR
 EW-04500-13	Aluminum	MiniG® Homogenizer Cryo-Block, Aluminum, 6 x 50 mL Round-Bottom Centrifuge Tubes; 1/EA
 EW-04500-14	Foam	MiniG® Homogenizer Foam Block, 6 x 50 mL Centrifuge Tubes; 1/EA

item	Material	Description
 EW-04500-15	Aluminum	MiniG® Homogenizer Nesting Plate, Titer Plate; 1/EA
 EW-04575-36	Aluminum	MiniG® Homogenizer Cryo-Block, Aluminum, 15 x 15 mL Round-Bottom Centrifuge Tubes; 1/EA
 EW-04575-37	Aluminum	MiniG® Homogenizer Cryo-Block, Aluminum, 6 x 15 mL PC Vials 04576-99; 1/EA
 EW-04575-38	Foam	MiniG® Homogenizer Foam Block, 12 x 15 mL Centrifuge Tubes; 1/EA

item	Material	Description
 EW-04575-39	Foam	MiniG® Homogenizer Foam Block, 2 x 75 mL PC Jars 04575-72; 1/EA
 EW-04575-40	Metal	MiniG® Replacement Adjustable Clamp Assembly for HG-400 Homogenizer
 EW-04607-01	Foam	MiniG® Homogenizer Foam Block, 6 x 15 mL Vials; 1/EA
 EW-61031-50	Foam	MiniG® Homogenizer Foam Blocks, 24 x 2 mL Vials; 2/PR

# Cole-Parmer Microscope Slides, Plain; 1440/CS



Zoom Image

Cole-Parmer – Item # EW-48500-20

Won't stick or scratch

- Easy to write on
- Manufactured in accordance with ISO 8037/1
- Measure 26 x 76 mm and 1 mm thick
- Tolerance for thickness:  $\pm 0.05$  mm
- Planarity under 30  $\mu\text{m}$  measured over 60 mm length
- Choose from plain, frosted, or pink color frost options

## Specifications & Description



- |               |                                       |
|---------------|---------------------------------------|
| • Depth (cm)  | 7.5                                   |
| • Width (cm)  | 2.5                                   |
| • Slide Type  | Plain                                 |
| • Thickness   | 1 mm                                  |
| • Description | Microscope Slides, Plain; 1440 slides |

# Cole-Parmer® Prepared Microscope Slide Sets






Convenient collection of prepared slides

- Numbered indexes allow for easy identification
  - Microscope slides are constructed of durable glass
- These Cole-Parmer® Essentials prepared microscope slide sets include a wide assortment of specimen slides. All prepared slide collections come packaged in a case for easy and safe storage.
- 

item	Slide Type	Description
 EW-78908-41	Basics, Set of 25	Prepared Microscope Slide Set, Basics, Set of 25 Slides; 1/EA
 EW-78908-42	Biology, Set of 100	Prepared Microscope Slide Set, Biology, Set of 100 Slides; 1/EA

item	Slide Type	Description
 EW-78908-43	Biology, Set of 25	Prepared Microscope Slide Set, Biology, Set of 25 Slides; 1/EA
 EW-78908-44	Biology, Set of 13	Prepared Microscope Slide Set, Biology, Set of 13 Slides; 1/EA
 EW-78908-45	Biology, Set of 14	Prepared Microscope Slide Set, Biology, Set of 14 Slides; 1/EA
 EW-78908-46	Biology, Set of 16	Prepared Microscope Slide Set, Biology, Set of 16 Slides; 1/EA
 EW-78908-47	Biology, Set of 20	Prepared Microscope Slide Set, Biology, Set of 20 Slides; 1/EA

item	Slide Type	Description
 EW-78908-48	Biology, Set of 12	Prepared Microscope Slide Set, Biology, Set of 12 Slides; 1/EA
 EW-78908-49	Plant, Set of 4	Prepared Microscope Slide Set, Plant, Set of 4 Slides; 1/EA
 EW-78908-50	Algae Survey, Set of 15	Prepared Microscope Slide Set, Algae Survey, Set of 15 Slides; 1/EA
 EW-78908-51	Bacteria, Set of 12	Prepared Microscope Slide Set, Bacteria, Set of 12 Slides; 1/EA
 EW-78908-52	Basic Botany Models, Set of 25	Prepared Microscope Slide Set, Basic Botany Models, Set of 25 Slides; 1/EA

item	Slide Type	Description
 <p data-bbox="263 253 430 286">EW-78908-53</p>	<p data-bbox="608 286 842 320">Histology, Set of 25</p>	<p data-bbox="1035 286 1358 387">Prepared Microscope Slide Set, Histology, Set of 25 Slides; 1/EA</p>
 <p data-bbox="263 607 430 640">EW-78908-54</p>	<p data-bbox="608 640 978 674">Basic Plant Anatomy, Set of 20</p>	<p data-bbox="1035 640 1396 741">Prepared Microscope Slide Set, Basic Plant Anatomy, Set of 20 Slides; 1/EA</p>
 <p data-bbox="263 965 430 999">EW-78908-55</p>	<p data-bbox="608 999 967 1032">Protozoa and Algae, Set of 20</p>	<p data-bbox="1035 999 1385 1099">Prepared Microscope Slide Set, Protozoa and Algae, Set of 20 Slides; 1/EA</p>

# Cole-Parmer Sterile Microscope Slides, Individually Packaged; 50/Pk



Zoom Image

Cole-Parmer – Item # EW-75955-55

Pre-sterilized to save time

- Easily write or label frosted end
- Standard 3" x 1" (75 x 25 mm) size
- 50 slides in each pack

## Specifications & Description

• Height (InchShort)	3
• Width (InchShort)	1
• Height (cm)	7.5
• Width (cm)	2.5
• Slide Type	Frosted
• Description	Sterile Microscope Slides, Individually Packaged; 50/Pk

### MORE ABOUT THIS ITEM

These individually packaged microscope slides come pre-sterilized so you can save prep-time and avoid exposure to infectious diseases or contamination. Each blister pack contains one slide, and reinforcement board to prevent breakage.

# Cole-Parmer Magnifier Lamp, LED, 3X, Clamp-Mount, 31" L Arm; 120V, 60 Hz



Cole-Parmer – Item # EW-98766-61

Clamp magnifier to a table or desk—anywhere needed

- Protect your lens when not in use—sliding shutter-cover
- LED resembles natural daylight for optimal clarity and true color

## Specifications & Description

• Magnification	3x
• Viewing Area	4-5/8" (11.7 cm) diameter
• Lens	Single
• Mounting Type	Clamp-mount
• Light Source	LED
• Arm Length (in)	31
• Arm Length (cm)	78.7
• Power (VAC)	120
• Power (Hz)	60
• Color	White
• Description	Magnifier Lamp, 3x; 1/Ea



Cole-Parmer – Item # EW-78908-66

Easily organize and protect microscope slides

- Holds twenty 3" x 1" (75 x 25 mm) slides
- Constructed of durable polystyrene
- Trays nest within each other to optimize storage space

## Specifications & Description

- |                      |   |
|----------------------|---|
| • Height (InchShort) | 0.75  |
| • Depth (in)         | 7.5   |
| • Width (InchShort)  | 11.25   |
| • Height (cm)        | 1.9   |
| • Depth (cm)         | 19.05   |
| • Width (cm)         | 28.6  |
| • Slide Type         | Slide Tray  |
| • Size               | Holds 20 3" x 1" slides                                   |
| • Description        | Microscope Slide Tray, Polystyrene, Holds 20 Slides; 6/Pk |

### MORE ABOUT THIS ITEM

This Cole-Parmer® Essentials slide tray is constructed of white polystyrene which provides good contrast for viewing dyes and stains. A unique stepped cutout design simplifies removal of slides and is designed to avoid direct contact of prepared slides with the tray surface.



Cole-Parmer – Item # EW-78908-67

Easily transport and protect microscope slides

- Numbered indexes allow for easy identification
- Holds up to 200 3" x 1" (75 x 25 mm) slides
- Constructed of ABS plastic

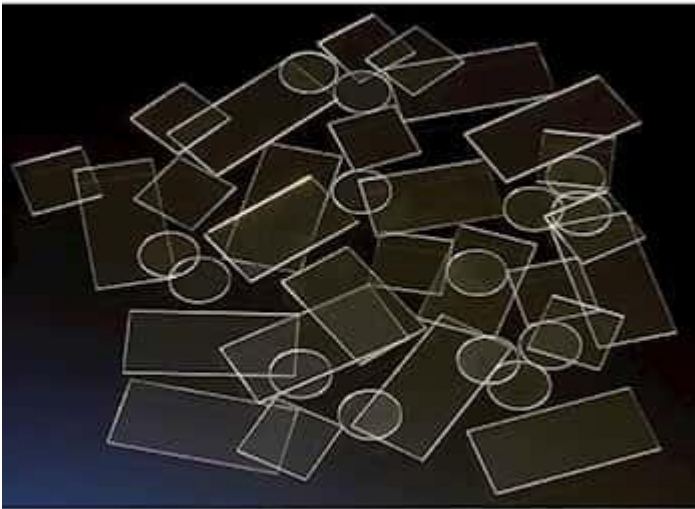
## Specifications & Description

- |                      |   |
|----------------------|---|
| • Height (InchShort) | 3.5   |
| • Depth (in)         | 9   |
| • Width (InchShort)  | 3   |
| • Height (cm)        | 8.9   |
| • Depth (cm)         | 22.9  |
| • Width (cm)         | 7.62  |
| • Slide Type         | Storage Rack  |
| • Size               | Holds 200 3" x 1" slides  |
| • Description        | Microscope Slide Storage Rack with Lid, ABS Plastic, Holds 200 Slides |

### MORE ABOUT THIS ITEM


Protect your 75 x 25 mm microscope slides with this compact, durable storage rack. This plastic slide storage box features a removable slide tray with 100 numbered slots that hold one or two slides each. The clear hinged lid allows easy viewing of slides and labels. Slides can be stored vertically with the labels up for easy identification or bar code reading.

# Cole-Parmer® Microscope Slide Cover Glasses



Protect your samples

- Choose from two thicknesses
  - Constructed of borosilicate glass
- Choose from two thicknesses: no. 1 (0.13 to 0.17 mm) or no.1.5 (0.16 to 0.19 mm). Cover glasses are made from borosilicate glasses and packaged by the ounce. The cover slips feature extra-white soda-lime glass with very low iron content.

item	Size	Thickness	Description
<div>  EW-48510-00</div>	Square (22 x 22 mm)	No. 1 (0.13 to 0.17 mm)	Cover glasses, 22 x 22 mm square, 0.13 to 0.17 mm thickness

item	Size	Thickness	Description
 EW-48510-10	Square (22 x 22 mm)	No. 1.5 (0.16 to 0.19 mm)	Cover glasses, 22 x 22 mm square, 0.16 to 0.19 mm thickness
 EW-48511-00	Rectangular (22 x 40 mm)	No. 1 (0.13 to 0.17 mm)	Cover glasses, 22 x 40 mm rectangular, 0.13 to 0.17 mm thickness
 EW-48511-10	Rectangular (22 x 40 mm)	No. 1.5 (0.16 to 0.19 mm)	Cover glasses, 22 x 40 mm rectangular, 0.16 to 0.19 mm thickness
 EW-48511-30	Rectangular (24 x 60 mm)	No. 1 (0.13 to 0.17 mm)	Cover glasses, 24 x 60 mm rectangular, 0.13 to 0.17 mm thickness



Cole-Parmer – Item # EW-98766-58

LED lamps provide even light over surface being observed

- Choose the magnification level and diameter to suit your needs
- Low-power, high-efficiency LED lamp improves battery life and performance

## Specifications & Description

- |                 |   |
|-----------------|---|
| • Magnification | 4x  |
| • Viewing Area  | 1.75" (4.4 cm) diameter                     |
| • Lens          | Single                                      |
| • Mounting Type | Handheld                                    |
| • Light Source  | LED   |
| • Battery       | 2 AA (included)                             |
| • Color         | Black                                       |
| • Description   | Illuminated Magnifier, 1.75" Dia., 4X; 1/Ea |

**1**  
YEAR  
Warranty

### INCLUDES

Two AA batteries.

### MORE ABOUT THIS ITEM



These powerful lighted magnifiers provide perfect-focus, highly defined view of surface details and illuminate uniformly over the field of observation. The LED lamp life is nearly 20 times that of a conventional incandescent illuminator—virtually eliminates bulb replacement. Other features include an ergonomic handle and rimless aspheric lens.


# Cole-Parmer® Replacement Microscope Bulbs



Optimize life and performance of your Cole-Parmer ® microscopes

- Easily replacement microscope bulb to keep your microscope working  
Keep your Cole-Parmer ® microscopes running smoothly with these replacement bulbs.

item	Power (watts)	Description
 EW-03904-90	10	Replacement Microscope Bulb, Tubular, 12V, 10W
 EW-48920-83	15	Replacement Microscope Top Bulb, Halogen, 12V, 15W


item	Power (watts)	Description
<div data-bbox="126 255 256 376"></div> <div data-bbox="261 255 432 286">EW-48923-80</div>	20	Replacement Microscope Bulb, Halogen, 12V, 20W

# Cole-Parmer® Specialty Microscope Slides, Soda Lime Glass



Specially prepared slides enhance adhesion of tissue samples to slides

- Frosted one end on one side
- Ground edges and 45° corners reduce the chance of cutting your fingers or tearing of gloves
- Each slide measures 76 x 26 mm and 1.0 to 1.2-mm thick  
Chemically resistant white writing surface is suitable for marking with inkjet and thermal transfer printers and permanent markers.

item	Slide Type	Description
<div>  EW-78905-88</div>	Positive charge	Microscope Slides, Positive Charged, White-Frosted, 45° Corners; 72/PK


item	Slide Type	Description
<div data-bbox="132 255 256 378" data-label="Image"> </div> <div data-bbox="256 255 432 286" data-label="Text"> <p>EW-78905-89</p> </div>	<div data-bbox="608 286 802 318" data-label="Text"> <p>Polysine™ coat</p> </div>	<div data-bbox="1035 286 1401 380" data-label="Text"> <p>Microscope Slides, Polysine™ Coated, White-Frosted, 45° Corners; 72/PK</p> </div>
<div data-bbox="132 685 256 808" data-label="Image"> </div> <div data-bbox="132 880 298 911" data-label="Text"> <p>EW-78905-90</p> </div>	<div data-bbox="608 719 748 750" data-label="Text"> <p>Silane coat</p> </div>	<div data-bbox="1035 719 1366 813" data-label="Text"> <p>Microscope Slides, Silane Coated, White-Frosted, 45° Corners; 72/PK</p> </div>
<div data-bbox="132 1117 256 1240" data-label="Image"> </div> <div data-bbox="256 1117 429 1149" data-label="Text"> <p>EW-78905-91</p> </div>	<div data-bbox="608 1149 861 1180" data-label="Text"> <p>Hydrophilic adhesive</p> </div>	<div data-bbox="1035 1149 1407 1243" data-label="Text"> <p>Microscope Slides, Hydrophilic Adhesive, White-Frosted, 45° Corners; 72/PK</p> </div>
<div data-bbox="132 1547 256 1671" data-label="Image"> </div> <div data-bbox="256 1547 432 1579" data-label="Text"> <p>EW-78905-92</p> </div>	<div data-bbox="608 1579 833 1610" data-label="Text"> <p>Cytology adhesive</p> </div>	<div data-bbox="1035 1579 1390 1673" data-label="Text"> <p>Microscope Slides, Cytology Adhesive, White-Frosted, 45° Corners; 72/PK</p> </div>

# Cole-Parmer® Microscope Slide Mailer



Safely transport and protect microscope slides

- Constructed of durable polypropylene
  - Holds 3" x 1" (75 x 25 mm) slides
- Protect your 75 x 25 mm microscope slides with these durable slide mailers. These white polypropylene mailers feature hinged covers and molded-in dividers to securely hold microscope slides and protect them from damage during transport.

item	Size	Slide Type	Description
<div>EW-78908-56</div>	Holds 1 slide	Slide Mailer	Microscope Slide Mailer, Polypropylene, Holds 1 Slide; 25/Pk

item	Size	Slide Type	Description
 EW-78908-57	Holds 2 slides	Slide Mailer	Microscope Slide Mailer, Polypropylene, Holds 2 Slides; 25/Pk
 EW-78908-58	Holds 5 slides	Slide Mailer	Microscope Slide Mailer, Polypropylene, Holds 5 Slides; 25/Pk
 EW-78908-59	Holds 10 slides	Slide Mailer	Microscope Slide Mailer, Polypropylene, Holds 10 Slides; 25/Pk

# Cole-Parmer Dust-It, Handheld Air Blower



Cole-Parmer – Item # EW-17766-14

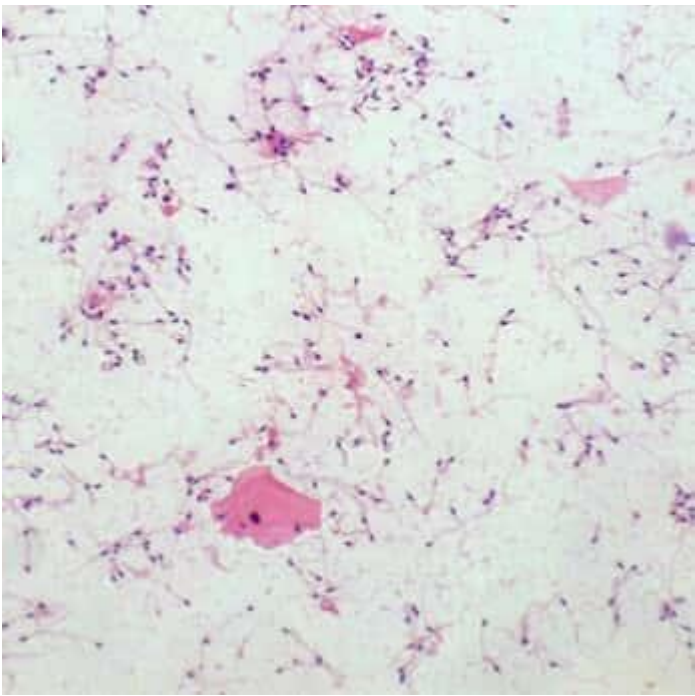
Environmentally friendly - no aerosols and nonconductive tip

- Ideal for delicate, difficult to clean, and inaccessible equipment
- 1 year warranty

## Specifications & Description

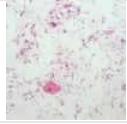
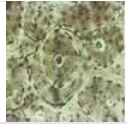
•	Length (in)	5
•	Width (in)	2.25
•	Description	Dust-It, Handheld Air Blower
•	Warranty	1 year

# Cole-Parmer® Prepared Microscope Slides, Human



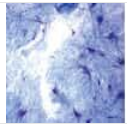

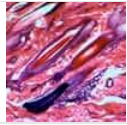

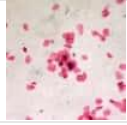
Convenient slides are already prepared and mounted with human specimens

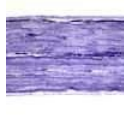
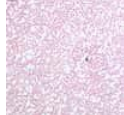
- Easily observe intricate details and structures on a prepared microscope slide
- Microscope slides are constructed of durable glass  
These Cole-Parmer® Essentials prepared microscope slides can provide an up-close examination of a wide range of human specimens. The prepared slides allow you to see human cells under the microscope for a close-up look at different human cells and tissues. Each specimen is meticulously prepared and mounted on a glass microscope slide to ensure long-term preservation.

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-57	1	Human Sperm Smear	3
 EW-78907-59	1	Human Bone Ground, Cs	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-60	1	Cardiac Muscle	3
 EW-78907-71	1	Skeletal Muscle, Cs and Ls	3
 EW-78907-77	1	Human Lung Tissue, Normal	3
 EW-78907-78	1	Human Lung Tissue, Diseased	3
 EW-78907-79	1	Human Stomach Tissue, Healthy	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-80	1	Human Stomach Tissue, Ulcer Cells	3
 EW-78907-81	1	Human Liver Cells, Normal	3
 EW-78907-82	1	Human Liver Cells, Cirrhosis	3
 EW-78907-88	1	Hair, 3 Types	3
 EW-78907-95	1	Muscle, 3 Types	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78908-04	1	Multi-Polar Motor Neurons	3
 EW-78908-10	1	Involuntary Smooth Muscle, Ls and Cs	3
 EW-78908-29	1	Human Scalp, Vs	3
 EW-78908-30	1	Compact Bone, Cs	3
 EW-78908-38	1	Human Cheek Cells	3

item	Height (InchShort)	Slide Type	Width (InchShort)
<div data-bbox="126 253 256 376"></div> <div data-bbox="256 253 432 286">EW-78908-39</div>	1	Striated Muscle, Ls	3
<div data-bbox="126 607 256 730"></div> <div data-bbox="256 607 432 640">EW-78908-40</div>	1	Human Blood Smear, Wright's Stain	3

# Cole-Parmer® Concavity Microscope Slides, Glass







Enables dry-mounting of large specimens directly on slides

- Constructed of durable sheet glass with ground edges
  - Spherical concavities are approximately 16mm in diameter and 0.8mm deep
  - Slides measure 75 x 25 mm
- These Cole-Parmer® Essentials concavity microscope slides feature spherical concavities that enable dry-mounting of large specimens and are ideal for use with specimens that are too thick for conventional slides. Pre-cleaned slides feature ground edges and concavities that are 16 mm in diameter and 0.8 mm deep.

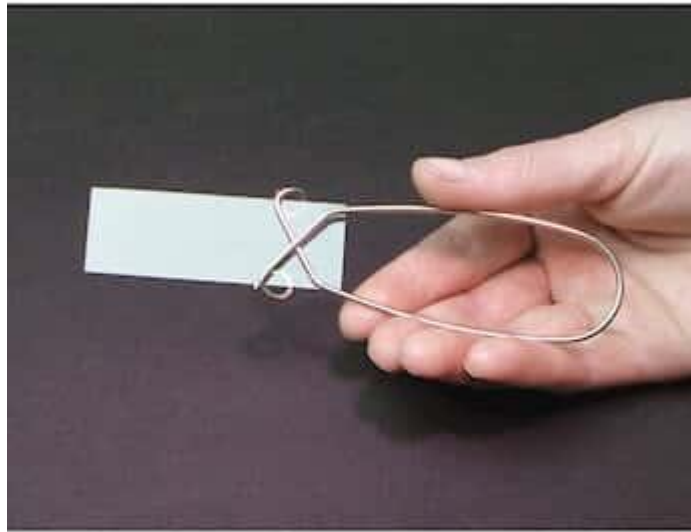
Choose from standard slides that are 1.3 mm thick or thick slides that are 3 mm thick to provide enhanced durability.

<div>item</div> <div>EW-78907-40</div>	<div>Slide Type</div> <div>1 Well</div>	<div>Thickness</div> <div>1.3 mm</div>
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item	Slide Type	Thickness
 EW-78907-41	2 Wells	1.3 mm
 EW-78907-42	3 Wells	1.3 mm
 EW-78907-46	1 Well	3 mm
 EW-78907-47	2 Wells	3 mm

item	Slide Type	Thickness
<div data-bbox="126 255 256 378"></div> EW-78907-48	2 Wells	3 mm

# Cole-Parmer Microscope Slide Holding Forceps, Plated Steel Wire



Cole-Parmer – Item # EW-48580-35

Easily move slides without direct handling

- Constructed of durable plated steel wire

## Specifications & Description

- DescriptionMicroscope Slide Holding Forceps, plated steel wire

### MORE ABOUT THIS ITEM

Move slides and cover glasses without handling them — forceps hold them carefully and tightly.

# Cole-Parmer® White-Frosted Microscope Slides, Soda Lime Glass



Suitable for marking with inkjet and thermal transfer printers and permanent markers

- Frosted one end on one side
  - Chemically resistant white writing surface
  - Coating maintains original color in routine H&E staining
  - Each slide measures 76 x 26 mm and 1.0 to 1.2-mm thick
- Slightly rough surface of the slides provides better adhesion for delicate samples as well as makes them easier to handle.

item	Slide Type	Description
<div>EW-78905-86</div>	White frost, Ground Edges, 45° Corners	Microscope Slides, White-Frosted, Ground Edges, 45° Corners; 50/PK

item	Slide Type	Description
 EW-78905-87	White frost, Cut Edge, 90° Corners	Microscope Slides, White-Frosted, Ground Edges, 90° Corners; 50/PK

## Cole-Parmer® Microscope Slide Storage Boxes









Easily organize and protect microscope slides

- Numbered indexes allow for easy identification
- Holds 3" x 1" (75 x 25 mm) slides

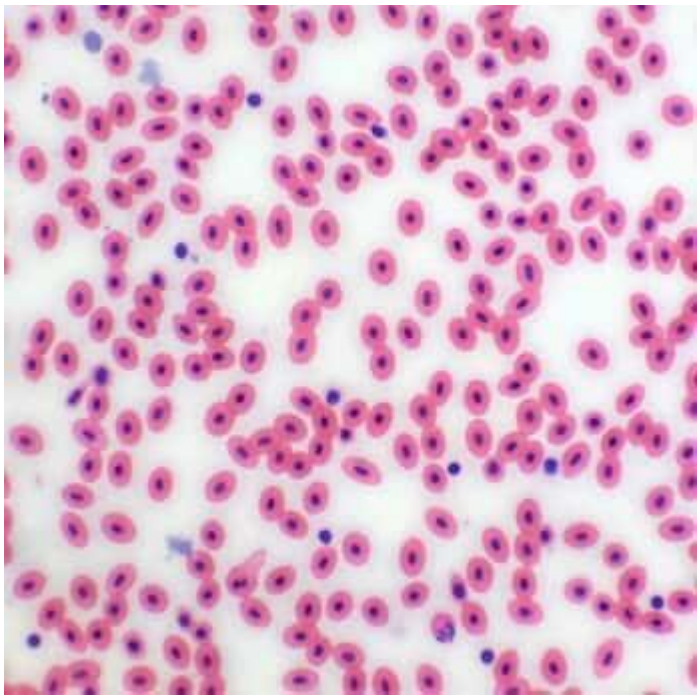
Protect your 75 x 25 mm microscope slides with these compact, durable storage racks. Slides fit into number slots for easy reference and the inside of the lid features a numbered slide index. Choose from two-piece polystyrene plastic storage boxes or wooden storage boxes with hinged cover.

\$

item	Size	Slide Type	Description
 EW-78908-60	Holds 25 slides	Plastic Storage Box	Microscope Slide Storage Box, Polystyrene, Holds 25 Slides
 EW-78908-61	Holds 50 slides	Plastic Storage Box	Microscope Slide Storage Box, Polystyrene, Holds 50 Slides
 EW-78908-62	Holds 100 slides	Plastic Storage Box	Microscope Slide Storage Box, Polystyrene, Holds 100 Slides
 EW-78908-63	Holds 25 slides	Wooden Storage Box	Microscope Slide Storage Box, Wooden, Holds 25 Slides
 EW-78908-64	Holds 50 slides	Wooden Storage Box	Microscope Slide Storage Box, Wooden, Holds 50 Slides


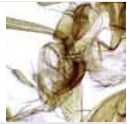
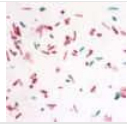


item	Size	Slide Type	Description
<div>EW-78908-65</div>	Holds 100 slides	Wooden Storage Box	Microscope Slide Storage Box, Wooden, Holds 100 Slides

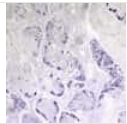

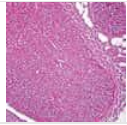
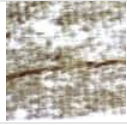

# Cole-Parmer® Prepared Microscope Slides, Animal








- Convenient slides are already prepared and mounted with animal specimens
- Easily observe intricate details and structures on a prepared microscope slide
- Microscope slides are constructed of durable glass  
These Cole-Parmer® Essentials animal prepared microscope slides can provide an up-close examination of a wide range of animal specimens. The prepared slides allow you to see animal cells under the microscope for a close-up look at different animal parts and tissues. Each specimen is meticulously prepared and mounted on a glass microscope slide to ensure long-term preservation.






item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-53	1	Frog Blood Smear	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-58	1	Grantia Spicules, Wm	3
 EW-78907-65	1	Fruit Fly, Slide X, Wm	3
 EW-78907-66	1	Pond Life	3
 EW-78907-67	1	Housefly, Wm	3
 EW-78907-70	1	Ascaris (Roundworm), Egg, Cs	3

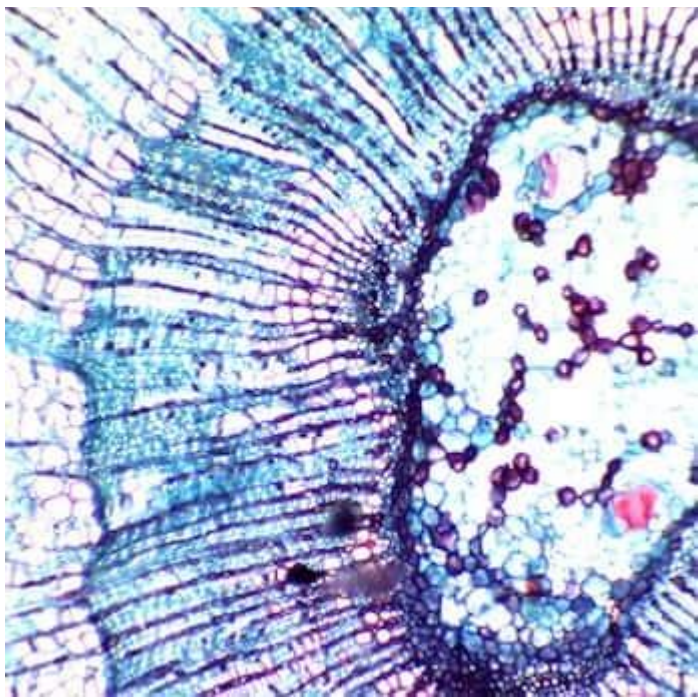
item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-74	1	Animal Cell Mitosis, Grasshopper Testis, Mitosis	3
 EW-78907-75	1	Animal Cell Mitosis, Ascaris (Roundworm), Mitosis, Sec	3
 EW-78907-76	1	Nerve Cells, Animal	3
 EW-78907-83	1	Butterfly Wing	3
 EW-78907-84	1	Daphnia (Water Flea), Wm	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-86	1	Feathers, 3 Types	3
 EW-78907-89	1	Housefly Head, Legs, and Wings	3
 EW-78907-90	1	Hydra, Budding, Wm	3
 EW-78908-00	1	Planaria	3
 EW-78908-01	1	Spider, Wm	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78908-05	1	Frog Liver, Sec	3
 EW-78908-06	1	Areolar Tissue, Animal, Cs	3
 EW-78908-07	1	Squamous Mesothelium, Mammal, Wm	3
 EW-78908-14	1	Fish Scale	3
 EW-78908-27	1	Hydra, Wm	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78908-33	1	Honeybee Anterior and Posterior Wing	3
 EW-78908-34	1	Earthworm, Posterior, Cs	3
 EW-78908-35	1	Daphnia and Cyclops, Wm	3
 EW-78908-36	1	Housefly Head With Mouthparts, Wm	3
 EW-78908-37	1	Housefly Leg with Clinging Pads	3

# Cole-Parmer® Prepared Microscope Slides, Plants

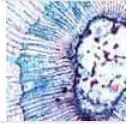
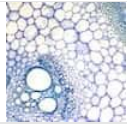


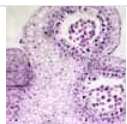


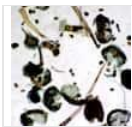
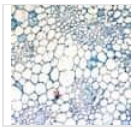


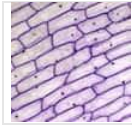
Convenient slides are already prepared and mounted with plant specimens



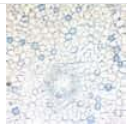


- Easily observe intricate plant details and structures on a prepared microscope slide
- Microscope slides are constructed of durable glass

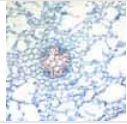

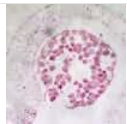

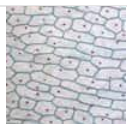
These Cole-Parmer® Essentials plant prepared microscope slides can provide an up-close examination of a wide range of plant specimens. The prepared slides allow you to see plant cells under the microscope for a close-up look at plant parts and tissue. Each specimen is meticulously prepared and mounted on a glass microscope slide to ensure long-term preservation.

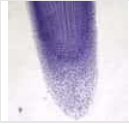

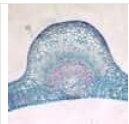
item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-52	1	Cork Section	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-56	1	Basswood Stem, Cs	3
 EW-78907-68	1	Pumpkin, Cs	3
 EW-78907-69	1	Wheat, Cs	3
 EW-78907-72	1	Plant Cell Meiosis, Lily Meiosis, First Meiotic Division	3
 EW-78907-73	1	Plant Cell Meiosis, Lily Meiosis, Second Meiotic Division	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-87	1	Fern Spores Germinating	3
 EW-78907-92	1	Lily Stem, Cs	3
 EW-78907-97	1	Mushroom, Cs	3
 EW-78907-98	1	Oleander Leaf, Cs	3
 EW-78907-99	1	Onion Skin, Cs	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78908-08	1	Monocot And Dicot Stem	3
 EW-78908-09	1	Monocot Stem	3
 EW-78908-11	1	Ranunculus Stem, Buttercup, Cs	3
 EW-78908-12	1	Onion Leaf Epidermis	3
 EW-78908-21	1	Moss Stem with Leaves, Wm	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78908-22	1	Buttercup Root	3
 EW-78908-23	1	Corn Stem, Cs	3
 EW-78908-24	1	Lily Anthers, Cs	3
 EW-78908-25	1	Lily Ovary, Cs	3
 EW-78908-26	1	Onion Bulb Epidermis, Plant Cells Slide, Wm	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78908-28	1	Onion Root Tip Mitosis	3
 EW-78908-31	1	Sunflower Stem, Cs	3
 EW-78908-32	1	Lilac Leaf	3



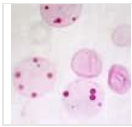


# Cole-Parmer® Prepared Microscope Slides, Protozoa and Algae





Convenient slides are already prepared and mounted with protist specimens

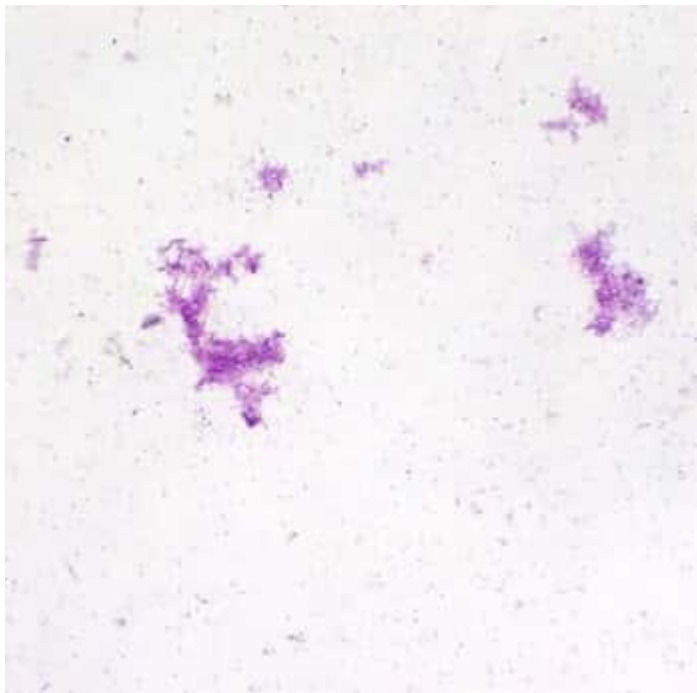
- Easily observe intricate details and structures on a prepared microscope slide
  - Microscope slides are constructed of durable glass
- Microscopic protists are very hard to be seen by the naked eye. These Cole-Parmer® Essentials Protozoa and Algae prepared microscope slides can provide an up-close examination of a wide range of Protozoa and Algae. Each specimen is meticulously prepared and mounted on a glass microscope slide to ensure long-term preservation.

item	Height (InchShort)	Slide Type	Width (InchShort)
<div>EW-78907-55</div>	1	Paramecium, Wm	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-85	1	Euglena	3
 EW-78907-93	1	Mixed Protozoa	3
 EW-78908-03	1	Volvox, Wm	3
 EW-78908-13	1	Green Algae	3
 EW-78908-16	1	Amoeba Proteus	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78908-18	1	Mixed Diatoms, Wm	3
 EW-78908-19	1	Spirogyra	3

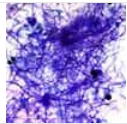

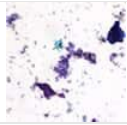


# Cole-Parmer® Prepared Microscope Slides, Bacteria and Fungi

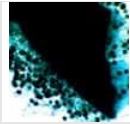


Convenient slides are already prepared and mounted with specimens

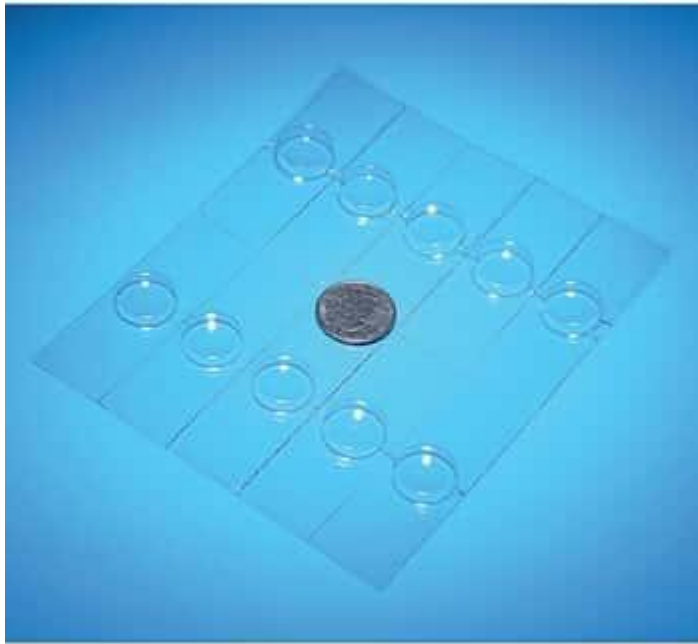
- Easily observe intricate details and structures on a prepared microscope slide
  - Microscope slides are constructed of durable glass
- Microscopic bacteria and fungi are very hard to see with the naked eye. These Cole-Parmer® Essentials Bacteria and Fungi prepared microscope slides can provide an up-close examination of a wide range of specimens including different molds, Lichen, and bacteria. Each specimen is meticulously prepared and mounted on a glass microscope slide to ensure long-term preservation.

item	Height (InchShort)	Slide Type	Width (InchShort)
<div>EW-78907-54</div>	1	Bacteria, 3 Types	3

item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-61	1	Bread Mold, Sexual	3
 EW-78907-62	1	Bread Mold	3
 EW-78907-63	1	Budding Yeast	3
 EW-78907-91	1	Lichen, Sec	3
 EW-78907-94	1	Molds: Aspergillus, Penicillium, and Rhizopus	3

item	Height (InchShort)	Slide Type	Width (InchShort)
<div data-bbox="126 253 256 376"></div> <div data-bbox="256 253 579 376">EW-78908-17</div>	1	Bacteria, Smear From Mouth	3
<div data-bbox="126 607 256 730"></div> <div data-bbox="256 607 579 730">EW-78908-20</div>	1	Aspergillus	3

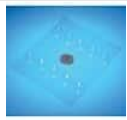
# Cole-Parmer® Plastic Well Microscope Slides



Enables mounting of large specimens directly on slides

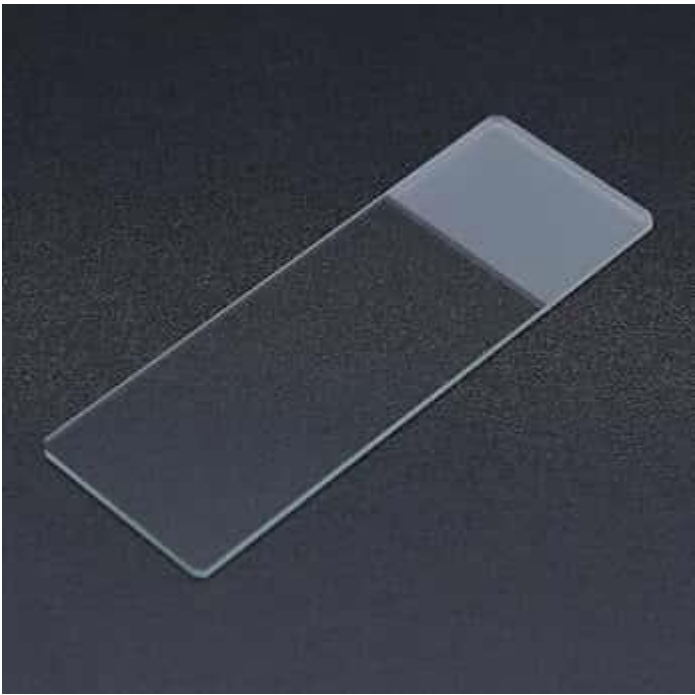
- Reusable plastic slides protect against breakage
  - Deep well tapers from 2 mm on the edges to 3 mm in the center
- These Cole-Parmer® Essentials well microscope slides are made of clear plastic and measure 3" x 1". Each slide features one well that is approximately 16 mm in diameter with a depth of 2 mm on the edges to 3 mm in the center.

Choose from standard slides or large slides with a raise edge design for easy handling.

item		Size	Slide Type	Description
 EW-78907-49		3" x 1"	1 Well	Microscope Slide with Well, Plastic, 3" x 1"; 10/Pk

item	Size	Slide Type	Description
<div data-bbox="126 253 256 376"></div> <div data-bbox="256 253 432 286">EW-78907-50</div>	3" x 1" with Raised Edges	1 Well	Microscope Slide with Well, Plastic, 3" x 1" with Raised Edges; 10/Pk

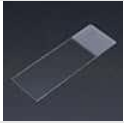
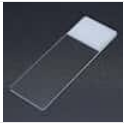
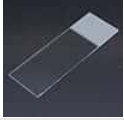
# Cole-Parmer® Frosted Microscope Slides, Soda Lime Glass



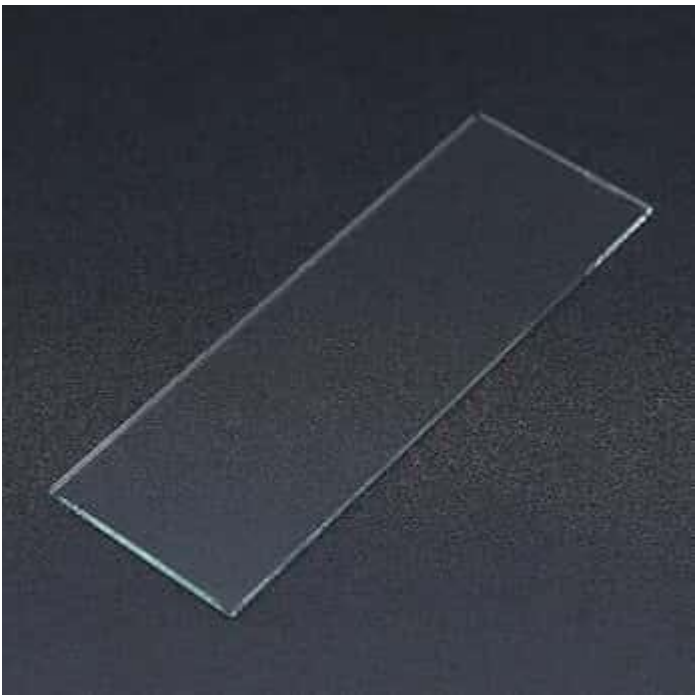
Chemically etched slightly rough surface on one end makes it easier to grip and handle

- Smooth frosted finish won't wear out slide marking pens
  - Each slide measures 76 x 26 mm and 1.0 to 1.2-mm thick
- These frosted microscope slides are excellent for preparing samples for histological examination, cell culture, or storing small specimens. Write directly on the slides for easy specimen identification.

item	Slide Type	Description
<div>EW-78905-82</div>	Single frost, Ground Edges, 45° Corners	Microscope Slides, Single-Frosted, Ground Edges, 45° Corners; 50/PK

item	Slide Type	Description
 EW-78905-83	Single frost, Cut Edge, 90° Corners	Microscope Slides, Single-Frosted, Cut Edges, 90° Corners; 50/PK
 EW-78905-84	Double frost, Ground Edges, 45° Corners	Microscope Slides, Double-Frosted, Ground Edges, 45° Corners; 50/PK
 EW-78905-85	Double frost, Cut Edge, 90° Corners	Microscope Slides, Double-Frosted, Cut Edges, 90° Corners; 50/PK

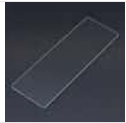

# Cole-Parmer® Plain Microscope Slides, Soda Lime Glass



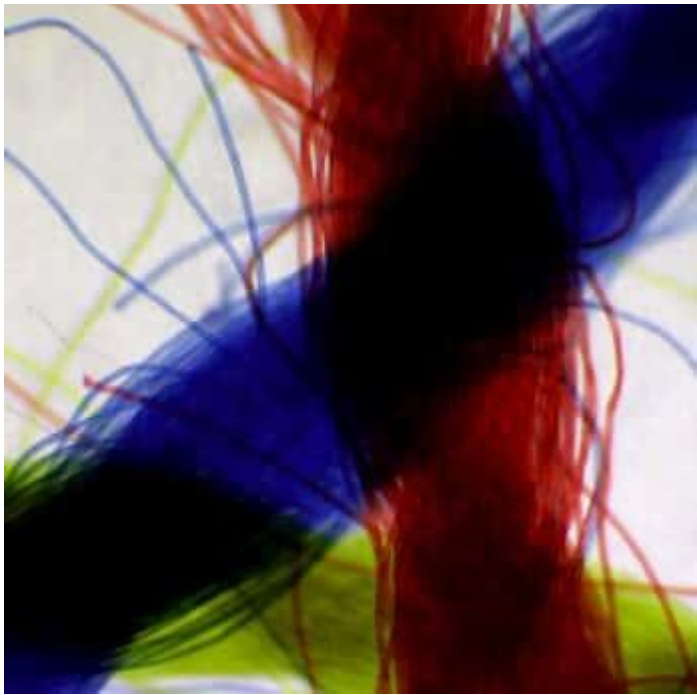
Precleaned, ready-to-use plain microscope slides

- Each slide measures 76 x 26 mm and 1.0 to 1.2-mm thick  
These cost-effective, precleaned microscope slides are ideal for general-purpose applications.

•

item	Slide Type	Description
<div></div> <div>EW-78905-80</div>	Plain, Ground Edges, 45° Corners	Microscope Slides, Ground Edges, 45° Corners; 50/PK
<div></div> <div>EW-78905-81</div>	Plain, Cut Edges, 90° Corners	Microscope Slides, Cut Edges, 90° Corners; 50/PK




# Cole-Parmer® Prepared Microscope Slides, Basics



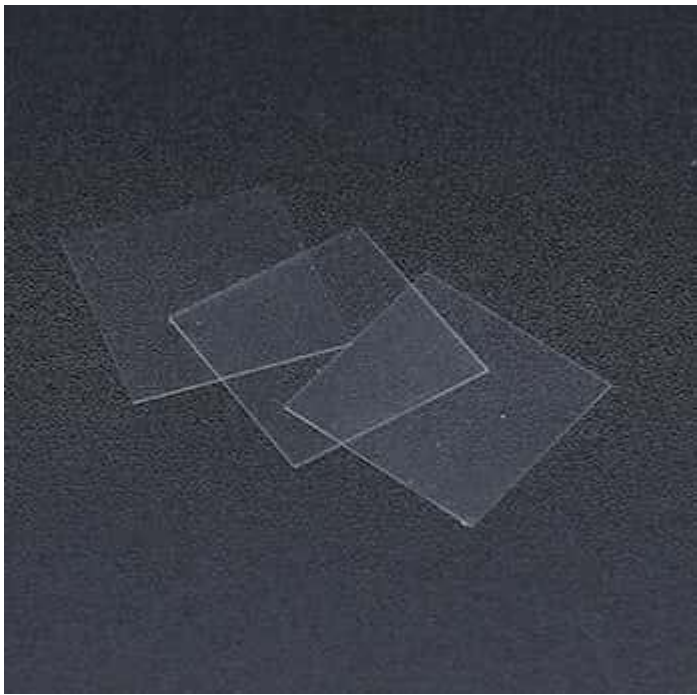
Convenient slides are already prepared and mounted

- Easily observe intricate details on a prepared microscope slide
  - Microscope slides are constructed of durable glass
- These Cole-Parmer® Essentials basics prepared microscope slides provide an up-close examination of a wide range of microscope slide basics including the letter 'e', gridlines, fibers, and more. These slides are ideal for learning inversion characteristics of a microscope, practice orienting the slide in the field of view, and explore the magnification settings of the microscope. Each specimen is meticulously prepared and mounted on a glass microscope slide to ensure long-term preservation.

item	Height (InchShort)	Slide Type	Width (InchShort)
<div>EW-78907-51</div>	1	Letter 'E'	3


item	Height (InchShort)	Slide Type	Width (InchShort)
 EW-78907-64	1	Graph, Black Gridlines, (Slide A)	3
 EW-78908-02	1	Textile Fibers, 3 Types	3
 EW-78908-15	1	Threads, Colored, Crossed, Wm	3



# Cole-Parmer® Microscope Slide Cover Glasses, Soda Lime Glass



Specially treated to avoid sticking and breakage

- No. 1 thickness (0.13 to 0.17 mm)
  - Comes in a hinged box
- Slide coverglasses are ideal for manual use and automatic coverslippers.

item	Size	Description
<div>EW-78905-93</div>	Square (18 x 18 mm)	Cover Glasses, 18 x 18 mm; 100/PK

item	Size	Description
<div data-bbox="129 253 256 376"></div> <div data-bbox="256 253 579 286">EW-78905-94</div>	Square (20 x 20 mm)	Cover Glasses, 20 x 20 mm; 100/PK
<div data-bbox="129 683 256 806"></div> <div data-bbox="129 875 300 909">EW-78905-95</div>	Square (22 x 22 mm)	Cover Glasses, 22 x 22 mm; 100/PK



Representative image only.

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# Cole-Parmer Fermentation 7 or 15 Liter System Antifoam Probe; 10mm Thread/170mm Immersion

Cole-Parmer – Item # EW-01919-64

No Reviews [Write the First Review](#)

1 year warranty

\$955.00 USD / EACH

1

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## Specifications & Description

Description	Fermentation 7 or 15 Liter System Antifoam Probe; 10mm Thread/170mm Immersion
Warranty	1 Year

1  
YEAR  
Warranty

### MORE ABOUT THIS ITEM



Order a probe according to your vessel size; all probes require cable 01919-65.





**Warning:** This product is not approved or intended for, and should not be used for medical, clinical, surgical or other patient oriented applications.



# Cole-Parmer® Accessories for Cole-Parmer® Stuart Stirring Hot Plates and Hot Plates



Replacement parts and accessories for your hot plate, stirrer, and/or stirring hot plate.

item	Description
<div>  EW-04805-91</div>	Support Rod for Hot Plates, Stirrers, Stirring Hot Plates; 24" L
<div> EW-04805-93</div>	Temperature Probe for Temperature Controller, PTFE



item	Description
 EW-04805-94	Support Rod Kit for Hot Plates, Stirrers, Stirring Hot Plates; 24" L
 EW-04805-95	Support Rod for Hot Plates, Stirrers, Stirring Hot Plates; 12" L
 EW-04805-96	Support Rod Bracket for Hot Plates, Stirrers, Stirring Hot Plates
 EW-04805-99	Temperature Probe for Digital Stirring Hot Plates, PTFE


item	Description
<div data-bbox="124 253 258 378"></div> <div data-bbox="132 443 300 479">EW-04807-90</div>	<div data-bbox="703 282 1106 380">Temperature Controller for Undergrad Hot Plates and Stirring Hot Plates</div>
<div data-bbox="124 683 258 808"></div> <div data-bbox="264 683 427 719">EW-04807-91</div>	<div data-bbox="703 714 1061 781">Probe Holder for Temperature Controller</div>

# Cole-Parmer® Accessories for Cole-Parmer® ST-200 Stuart Portable Analog Stirrer



Plug in your stirrer to save on batteries in the lab  
Choose the power supply based on the plug and voltage required.

item	Plug Type
 EW-04801-69	UK
 EW-04801-71	Euro

item	Plug Type
<div data-bbox="124 253 256 376">  </div> <div data-bbox="256 253 683 376">EW-04801-73</div>	Car/Lighter

## Cole-Parmer Pt1000 Stuart Temperature Accessories Kit



Cole-Parmer – Item # EW-16358-91

External temperature sensing provides enhanced accuracy

- Optimize performance of your Cole-Parmer temperature kits
- 2 year warranty



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