VAPLOCK™
CLOSED SYSTEMS
for SOLVENT CONTAINMENT

Vapor Handling Solutions for Fluid Delivery and Solvent Waste

2017 CATALOG
**VapLock**

**VAPLOCK**™ is a safety solution for scientists, chemical hygienists, and researchers worldwide, designed to ensure proper delivery and waste containment of industrial chemicals and solvents. A versatile product solution, VapLock conforms to a broad spectrum of laboratory and industrial applications, useful wherever safety protocol for chemical handling is required or preferred, and through closed-system technology reduces harmful emissions which are potentially hazardous to employees and the environment. Our mission is to create a safer, healthier and cleaner workplace by providing unique, effective and price sensitive solutions to fluid handling problems in the laboratory.

**Closed Systems Introduction**

Through leaks, spills, and ventilation, an "open" solvent system will release chemical exhaust directly into the laboratory environment. This introduction may be reduced by adding several key components to the typical instrument. These items are:

1A a properly sealed solvent reservoir with secure fluid connections

1B a ventilation control valve at the solvent reservoir to displace vacuum while minimizing evaporation

2A a properly sealed solvent waste container with secure fluid connections

2B an exhaust filter at the waste container to capture escaping fumes.

**1A SOLVENT RESERVOIR FLUID CONNECTIONS**

For a closed-system solvent reservoir, the container first requires a bottle cap with ports to fit the specific tubing sizes removing solvent from the bottle. VapLock solvent caps provide versatile, leak-resistant connections where mobile phase tubing may be attached securely.

**1B SOLVENT RESERVOIR VENTILATION CONTROL**

In reservoirs where fluid is actively removed and no new solvent or gas pressure is simultaneously added, to complete the closed system the container requires a device to control solvent evaporation. With use of an automatic control valve, air may still enter the bottle as a pump moves the liquid phase out to the instrument. VapLock solutions for closed-system solvent delivery includes both stand-alone vent control valves and built-in valved cap options.

**2A WASTE CONTAINER FLUID CONNECTIONS**

Containers to collect solvent waste vary in size and in the specific means required to convert them to closed system. By selecting an appropriate container, waste may be sealed effectively, allowing ef fluent tubing to drain into the container without leaks or venting, forcing exhaust fumes through a single aperture where solvent vapors may be captured before entering the laboratory. VapLock waste collection manifolds and kits are designed to conform to a wide range of common laboratory and industrial containers, with versatile connection types and a uniquely modular system allowing reconfiguration and addition of new manifold components as required.

**2B WASTE CONTAINER VENTILATION CONTROL**

As solvents draining to waste may volatilize rapidly, the waste container can be the most significant generator of hazardous chemical vapor in an HPLC system. Available in several cartridge formats, Vaplock exhaust filters mitigate health hazards and reduce harmful chemical emissions and odors from laboratory waste containers. Developed and tested specifically for HPLC organic solvents, they may be used in conjunction with VapLock breakthrough color indicators to determine longevity and establish a replacement schedule.

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PEEK™ polymer is a Trademark of Victrex PLC
**GL45 CAP WITH STAINLESS THREAD INSERT**

### Closed System Design
Reduce chemical evaporation and exposure to hazardous vapors with Vaplock solvent reservoir caps. Combine with secure fluid connections and Vaplock air inlet or relief valves to maintain pressure equilibrium within the bottle.

### Durable Port Threads
Designed to accept industry-standard 1/4-28 threaded fittings, these caps include robust stainless steel thread inserts to minimize cross-threading and damage to soft PTFE ports. For use with semi-rigid tubing equal to or less than 1/8” (3.2mm) outside diameter.

### Anti-Twist Design
To prevent twisting of tubing when the cap is removed or attached, the inner body rotates independently of the outer collar.

### Chemically Compatible
Constructed of inert PTFE, the body of the cap provides ideal chemical compatibility with laboratory solvents. Under normal use, the outer Polypropylene collar is non-wetted. Caps may be autoclaved to 140°C. Please inquire for other material options and custom designs.

### Solvent Bottle Caps

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Western Fluids • 9927 W Emerald Street • Boise, ID 83704
P: 800.241.5145 • F: 951.566.0904 • E: sales@WesternFluids.net • www.VapLock.com
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<td>BOTTLE CAP, for Wako 38mm, (4) 1/4-28 ports, PTFE with PP collar.</td>
<td>(4) 1/4-28</td>
<td>PTFE, PP</td>
</tr>
</tbody>
</table>
### 38mm-WAKO WITH INTEGRATED AIR INLET VALVE

**Closed System Design**
Reduce exposure to hazardous chemical vapors with Vaplock solvent reservoir caps. Minimizing evaporation, an integrated check valve permits air to enter the bottle for vacuum displacement while solvent is pumped to the instrument. A 50μm PTFE Filter covers the valve assembly to reduce particulates.

**1/4-28 Port Threads**
Designed to accept industry-standard 1/4-28 threaded fittings. For use with semi-rigid tubing equal to or less than 1/8” (3.2mm) outside diameter.

**Anti-Twist Design**
To prevent twisting of tubing when the cap is removed or attached, the inner body rotates independently of the outer collar.

**Chemically Compatible**
Constructed of inert PTFE, the body of the cap provides ideal chemical compatibility with laboratory solvents. The air inlet valve is assembled with PTFE and 300-series stainless steel components, with Viton, inert FFKM, or white USP class VI EPDM seal options. Under normal use, the outer Polypropylene collar is non-wetted. Caps may be autoclaved to 140°C. Please inquire for other material options and custom designs.

### Solvent Bottle Caps

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th># Ports</th>
<th>Valve Seal Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>S38WXFV-2D</td>
<td>BOTTE CAP, for Wako 38mm, (2) 1/4-28 ports, PTFE with PP collar, FFKM air inlet valve.</td>
<td>(2) 1/4-28</td>
<td>FFKM</td>
</tr>
<tr>
<td>S38WXEV-2D</td>
<td>BOTTE CAP, for Wako 38mm, (2) 1/4-28 ports, PTFE with PP collar, EPDM air inlet valve.</td>
<td>(2) 1/4-28</td>
<td>EPDM</td>
</tr>
<tr>
<td>S38WXVV-2D</td>
<td>BOTTE CAP, for Wako 38mm, (2) 1/4-28 ports, PTFE with PP collar, Viton air inlet valve.</td>
<td>(2) 1/4-28</td>
<td>Viton</td>
</tr>
<tr>
<td>S38WXFV-4D</td>
<td>BOTTE CAP, for Wako 38mm, (4) 1/4-28 ports, PTFE with PP collar, FFKM air inlet valve.</td>
<td>(4) 1/4-28</td>
<td>FFKM</td>
</tr>
<tr>
<td>S38WXEV-4D</td>
<td>BOTTE CAP, for Wako 38mm, (4) 1/4-28 ports, PTFE with PP collar, EPDM air inlet valve.</td>
<td>(4) 1/4-28</td>
<td>EPDM</td>
</tr>
<tr>
<td>S38WXVV-4D</td>
<td>BOTTE CAP, for Wako 38mm, (4) 1/4-28 ports, PTFE with PP collar, Viton air inlet valve.</td>
<td>(4) 1/4-28</td>
<td>Viton</td>
</tr>
</tbody>
</table>
GL32 CAP WITH STAINLESS THREAD INSERT

Closed System Design
Reduce chemical evaporation and exposure to hazardous vapors with Vaplock solvent reservoir caps. Combine with secure fluid connections and Vaplock air inlet or relief valves to maintain pressure equilibrium within the bottle.

Durable Port Threads
Designed to accept industry-standard 1/4-28 threaded fittings, these caps include robust stainless steel thread inserts to minimize cross-threading and damage to soft PTFE ports. For use with semi-rigid tubing equal to or less than 1/8” (3.2mm) outside diameter.

Anti-Twist Design
To prevent twisting of tubing when the cap is removed or attached, the inner body rotates independently of the outer collar.

Chemically Compatible
Constructed of inert PTFE, the body of the cap provides ideal chemical compatibility with laboratory solvents. Under normal use, the outer Polypropylene collar is non-wetted. Caps may be autoclaved to 140°C. Please inquire for other material options and custom designs.

Solvent Bottle Caps

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th># Ports</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>S32X-2H</td>
<td>BOTTLE CAP, GL32, (2) 1/4-28 ports with stainless steel thread inserts, PTFE with PP collar.</td>
<td>(2) 1/4-28</td>
<td>PTFE, PP, SS</td>
</tr>
<tr>
<td>S32X-3H</td>
<td>BOTTLE CAP, GL32, (3) 1/4-28 ports with stainless steel thread inserts, PTFE with PP collar.</td>
<td>(3) 1/4-28</td>
<td>PTFE, PP, SS</td>
</tr>
<tr>
<td>S32X-4H</td>
<td>BOTTLE CAP, GL32, (4) 1/4-28 ports with stainless steel thread inserts, PTFE with PP collar.</td>
<td>(4) 1/4-28</td>
<td>PTFE, PP, SS</td>
</tr>
</tbody>
</table>
**GL32 CAP WITH THREADED PORT**

**Closed System Design**
Reduce chemical evaporation and exposure to hazardous vapors with Vaplock solvent reservoir caps. Combine with secure fluid connections and Vaplock air inlet or relief valves to maintain pressure equilibrium within the bottle.

**1/4-28 Port Threads**
Designed to accept industry-standard 1/4-28 threaded fittings. For use with semi-rigid tubing equal to or less than 1/8" (3.2mm) outside diameter. Ports are angled 10° for more accessible tubing connections.

**Anti-Twist Design**
To prevent twisting of tubing when the cap is removed or attached, the inner body rotates independently of the outer collar.

**Chemically Compatible**
 Constructed of inert PTFE, the body of the cap provides ideal chemical compatibility with laboratory solvents. Under normal use, the outer Polypropylene collar is non-wetted. Caps may be autoclaved to 140°C. Please inquire for other material options and custom designs.

**Solvent Bottle Caps**

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th># Ports</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>S32X-2D</td>
<td>BOTTLE CAP, GL32, (2) 1/4-28 ports, PTFE with PP collar.</td>
<td>(2) 1/4-28</td>
<td>PTFE, PP</td>
</tr>
<tr>
<td>S32X-3D</td>
<td>BOTTLE CAP, GL32, (3) 1/4-28 ports, PTFE with PP collar.</td>
<td>(3) 1/4-28</td>
<td>PTFE, PP</td>
</tr>
<tr>
<td>S32X-4D</td>
<td>BOTTLE CAP, GL32, (4) 1/4-28 ports, PTFE with PP collar.</td>
<td>(4) 1/4-28</td>
<td>PTFE, PP</td>
</tr>
</tbody>
</table>
GL25 CAP WITH THREADED PORT

Closed System Design
Reduce chemical evaporation and exposure to hazardous vapors with Vaplock solvent reservoir caps. Combine with secure fluid connections and Vaplock air inlet or relief valves to maintain pressure equilibrium within the bottle.

1/4-28 Port Threads
Designed to accept industry-standard 1/4-28 threaded fittings. For use with semi-rigid tubing equal to or less than 1/8" (3.2mm) outside diameter. Ports are angled 10° for more accessible tubing connections.

Anti-Twist Design
To prevent twisting of tubing when the cap is removed or attached, the inner body rotates independently of the outer collar.

Chemically Compatible
Constructed of inert PTFE, the body of the cap provides ideal chemical compatibility with laboratory solvents. Under normal use, the outer Polypropylene collar is non-wetted. Caps may be autoclaved to 140°C. Please inquire for other material options and custom designs.

Solvent Bottle Caps

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th># Ports</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>S25X-2D</td>
<td>BOTTLE CAP, GL25, (2) 1/4-28 ports, PTFE with PP collar.</td>
<td>(2) 1/4-28</td>
<td>PTFE, PP</td>
</tr>
<tr>
<td>S25X-3D</td>
<td>BOTTLE CAP, GL25, (3) 1/4-28 ports, PTFE with PP collar.</td>
<td>(3) 1/4-28</td>
<td>PTFE, PP</td>
</tr>
</tbody>
</table>
GL38 WASTE CAPS

Vapor Tight Connection
Waste manifolds are designed to fit standard GL38 threaded lab bottles.

Chemical Resistance
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with Polypropylene spin collar.

Versatile Configuration
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th># Ports</th>
<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM38P-4</td>
<td>WASTE MANIFOLD for GL38 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM38X-4</td>
<td>WASTE MANIFOLD for GL38 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM38P-10</td>
<td>WASTE MANIFOLD for GL38 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM38X-10</td>
<td>WASTE MANIFOLD for GL38 threaded container, 10-port with (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
GL38 WASTE KITS

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

• Minimize exposure to harmful chemical vapors
• Collect solvent waste from multiple effluent streams
• Highly adaptable and conforms to a broad range of containment types

Kit Contents
10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
(1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter
Container Not Included.
NALGENE 38-430 WASTE CAPS

Vapor Tight Connection
Waste manifolds are designed to fit standard plastic 38-430 threaded lab bottles.

Chemical Resistance
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with Polypropylene spin collar.

Versatile Configuration
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th># Ports</th>
<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM38NP-4</td>
<td>WASTE MANIFOLD for Nalgene 38-430 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM38NX-4</td>
<td>WASTE MANIFOLD for Nalgene 38-430 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM38NP-10</td>
<td>WASTE MANIFOLD for Nalgene 38-430 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM38NX-10</td>
<td>WASTE MANIFOLD for Nalgene 38-430 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
**NALGENE 38-430 WASTE KITS**

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

### Kit Contents

10-port Waste Manifold

- (3) ¼” NPT Polypropylene Plugs
- (6) ¼-28 PTFE Plugs
- (1) ½ NPT Polypropylene Plug
- (1) Organic Vapor Filter
- (2) 2.2mm OD hard wall tubing connections
- (1) 2.5mm OD hard wall tubing connection
- (3) 1/8” OD hard wall tubing connections
- (2) 1/16” OD hard wall tubing connections
- (3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
- (1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
- (1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
- (1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

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**Part #** | **Description** | **# Ports** | **Manifold Material**
--- | --- | --- | ---
WAK38NP-10 | HPLC WASTE ACCESSORY KIT for Nalgene 38-430 threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator | (1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28 | PP
WAK38NX-10 | HPLC WASTE ACCESSORY KIT for Nalgene 38-430 threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator | (1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28 | PTFE
WAKO 38mm WASTE CAPS

Vapor Tight Connection
Waste manifolds are designed to fit Wako 38mm threaded lab bottles.

Chemical Resistance
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with Polypropylene spin collar.

Versatile Configuration
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

<table>
<thead>
<tr>
<th>Manifold Caps</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th># Ports</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM38WP-4</td>
<td>WASTE MANIFOLD for Wako 38mm threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM38WX-4</td>
<td>WASTE MANIFOLD for Wako 38mm threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM38WP-10</td>
<td>WASTE MANIFOLD for Wako 38mm threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM38WX-10</td>
<td>WASTE MANIFOLD for Wako 38mm threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
WAKO 38mm WASTE KITS

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

**Kit Contents**

10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
(1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

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<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th># Ports</th>
<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAK38WP-10</td>
<td>HPLC WASTE ACCESSORY KIT for Wako 38mm threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK38WX-10</td>
<td>HPLC WASTE ACCESSORY KIT for Wako 38mm threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
GL45 WASTE CAPS

Vapor Tight Connection
Waste manifolds are designed to fit standard GL45 threaded lab bottles.

Chemical Resistance
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with Polypropylene spin collar.

Versatile Configuration
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog
GL45 WASTE KITS

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

Kit Contents
10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
(1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

<table>
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<tr>
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<th># Ports</th>
<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAK45P-10</td>
<td>HPLC WASTE ACCESSORY KIT for GL45 threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK45X-10</td>
<td>HPLC WASTE ACCESSORY KIT for GL45 threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
**DIN 45 WASTE CAPS**

**Vapor Tight Connection**
Waste manifolds are designed to fit standard DIN 45 threaded lab bottles.

**Chemical Resistance**
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with HDPE spin collar.

**Versatile Configuration**
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

<table>
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<th># Ports</th>
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<tbody>
<tr>
<td>WM45DP-4</td>
<td>WASTE MANIFOLD for DIN 45 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM45XP-4</td>
<td>WASTE MANIFOLD for DIN 45 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM45DP-10</td>
<td>WASTE MANIFOLD for DIN 45 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM45XP-10</td>
<td>WASTE MANIFOLD for DIN 45 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
**DIN 45 WASTE KITS**

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

**Kit Contents**

10-port Waste Manifold

- (3) ¼" NPT Polypropylene Plugs
- (6) ¼-28 PTFE Plugs
- (1) ½ NPT Polypropylene Plug
- (1) Organic Vapor Filter
- (2) 2.2mm OD hard wall tubing connections
- (1) 2.5mm OD hard wall tubing connection
- (3) 1/8" OD hard wall tubing connections
- (2) 1/16" OD hard wall tubing connections
- (3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TO BARB Y CONNECTOR with 1/4" (6.25mm) Barbs, Polypropylene
- (1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
- (1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
- (1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

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**Part #** | **Description** | **# Ports** | **Material**
--- | --- | --- | ---
WAK45DP-10 | HPLC WASTE ACCESSORY KIT for DIN 45 threaded container, 10-port with (1) 1/2" NPT, (3) 1/4" NPT, (6) 1/4-28; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator | (1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28 | PP
WAK45DX-10 | HPLC WASTE ACCESSORY KIT for DIN 45 threaded container, 10-port with (1) 1/2" NPT, (3) 1/4" NPT, (6) 1/4-28; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator | (1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28 | PTFE
DIN 50 WASTE CAPS

Vapor Tight Connection
Waste manifolds are designed to fit standard DIN 50 threaded lab bottles.

Chemical Resistance
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with HDPE spin collar.

Versatile Configuration
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

<table>
<thead>
<tr>
<th>Part #</th>
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<th># Ports</th>
<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM50P-4</td>
<td>WASTE MANIFOLD for DIN 50 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>3 1/4 NPT, 1 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM50X-4</td>
<td>WASTE MANIFOLD for DIN 50 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>3 1/4 NPT, 1 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM50P-10</td>
<td>WASTE MANIFOLD for DIN 50 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>1 1/2 NPT, 3 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM50X-10</td>
<td>WASTE MANIFOLD for DIN 50 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>1 1/2 NPT, 3 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
**DIN 50 WASTE KITS**

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

**Kit Contents**

10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
(1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

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**Waste Kits**

<table>
<thead>
<tr>
<th>Part #</th>
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<th># Ports</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAK50P-10</td>
<td>HPLC WASTE ACCESSORY KIT for DIN 50 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK50X-10</td>
<td>HPLC WASTE ACCESSORY KIT for DIN 50 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
## 51mm WASTE CAPS

### Vapor Tight Connection
Waste manifolds are designed to fit standard 51mm threaded lab bottles.

### Chemical Resistance
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with HDPE spin collar.

### Versatile Configuration
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

### Manifold Caps

<table>
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<tbody>
<tr>
<td>WM51P-4</td>
<td>WASTE MANIFOLD for 51mm threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM51X-4</td>
<td>WASTE MANIFOLD for 51mm threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM51P-10</td>
<td>WASTE MANIFOLD for 51mm threaded container, 10-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT (3) 1/4 NPT (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM51X-10</td>
<td>WASTE MANIFOLD for 51mm threaded container, 10-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT (3) 1/4 NPT (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
51mm WASTE KITS

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

Kit Contents
10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
(1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

<table>
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<tr>
<th>Part #</th>
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</tr>
</thead>
<tbody>
<tr>
<td>WAK51P-10</td>
<td>HPLC WASTE ACCESSORY KIT for 51mm threaded container, 10-port; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT (3) 1/4 NPT (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK51X-10</td>
<td>HPLC WASTE ACCESSORY KIT for 51mm threaded container, 10-port; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT (3) 1/4 NPT (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
**NALGENE 53B WASTE CAPS**

**Vapor Tight Connection**
Waste manifolds are designed to fit standard 53B threaded lab bottles.

**Chemical Resistance**
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with Polypropylene spin collar.

**Versatile Configuration**
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog*

### Manifold Caps

<table>
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<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM53P-4</td>
<td>WASTE MANIFOLD for 53B threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM53X-4</td>
<td>WASTE MANIFOLD for 53B threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM53P-10</td>
<td>WASTE MANIFOLD for 53B threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM53X-10</td>
<td>WASTE MANIFOLD for 53B threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
NALGENE 53B WASTE KITS

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

**Kit Contents**

10-port Waste Manifold
- (3) ¼” NPT Polypropylene Plugs
- (6) ¼-28 PTFE Plugs
- (1) ½ NPT Polypropylene Plug
- (1) Organic Vapor Filter
- (2) 2.2mm OD hard wall tubing connections
- (1) 2.5mm OD hard wall tubing connection
- (3) 1/8” OD hard wall tubing connections
- (2) 1/16” OD hard wall tubing connections
- (3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
- (1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
- (1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
- (1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
- (1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

<table>
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<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAK53P-10</td>
<td>HPLC WASTE ACCESSORY KIT for 53B threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK53X-10</td>
<td>HPLC WASTE ACCESSORY KIT for 53B threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
**DIN 60 WASTE CAPS**

**Vapor Tight Connection**
Waste manifolds are designed to fit standard DIN 60 threaded containers.

**Chemical Resistance**
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with HDPE spin collar.

**Versatile Configuration**
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog*

<table>
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<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM60P-4</td>
<td>WASTE MANIFOLD for DIN 60 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT PP</td>
<td></td>
</tr>
<tr>
<td>WM60X-4</td>
<td>WASTE MANIFOLD for DIN 60 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT PTFE</td>
<td></td>
</tr>
<tr>
<td>WM60P-10</td>
<td>WASTE MANIFOLD for DIN 60 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28 PP</td>
<td></td>
</tr>
<tr>
<td>WM60X-10</td>
<td>WASTE MANIFOLD for DIN 60 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28 PTFE</td>
<td></td>
</tr>
</tbody>
</table>
DIN 60 WASTE KITS

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

• Minimize exposure to harmful chemical vapors
• Collect solvent waste from multiple effluent streams
• Highly adaptable and conforms to a broad range of containment types

Kit Contents
10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.
61mm WASTE CAPS

Vapor Tight Connection
Waste manifolds are designed to fit standard 61mm threaded containers.

Chemical Resistance
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with HDPE spin collar.

Versatile Configuration
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

<table>
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<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM61P-4</td>
<td>WASTE MANIFOLD for 61mm threaded container, 4-port</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT, PP Manifold</td>
<td>PP</td>
</tr>
<tr>
<td></td>
<td>with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PP Manifold</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WM61X-4</td>
<td>WASTE MANIFOLD for 61mm threaded container, 4-port</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT, PTFE</td>
<td>PTFE</td>
</tr>
<tr>
<td></td>
<td>with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WM61P-10</td>
<td>WASTE MANIFOLD for 61mm threaded container, 10-port</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28, Polypropylene</td>
<td>PP</td>
</tr>
<tr>
<td></td>
<td>with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WM61X-10</td>
<td>WASTE MANIFOLD for 61mm threaded container, 10-port</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28, PTFE</td>
<td>PTFE</td>
</tr>
<tr>
<td></td>
<td>with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
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61mm WASTE KITS

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

Kit Contents
10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
(1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

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<th>Part #</th>
<th>Description</th>
<th># Ports</th>
<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAK61P-10</td>
<td>HPLC WASTE ACCESSORY KIT for 61mm threaded container, 10-port; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK61X-10</td>
<td>HPLC WASTE ACCESSORY KIT for 61mm threaded container, 10-port; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
**63mm WASTE CAPS (RIEKE/NOWPAK)**

### Vapor Tight Connection
Waste manifolds are designed to fit standard 63mm threads, including Rieke and Nowpak.

**Note:** Some 63mm industrial threads differ. Please contact us regarding your particular container requirements.

### Chemical Resistance
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with HDPE spin collar.

### Versatile Configuration
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

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</thead>
<tbody>
<tr>
<td>WM63P-4</td>
<td>WASTE MANIFOLD for 63mm threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PP Manifold</td>
<td>(3) 1/4 NPT (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM63X-4</td>
<td>WASTE MANIFOLD for 63mm threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM63P-10</td>
<td>WASTE MANIFOLD for 63mm threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM63X-10</td>
<td>WASTE MANIFOLD for 63mm threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
63mm WASTE KITS (RIEKE/NOWPAK)

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

Kit Contents
10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
(1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>WAK63P-10</td>
<td>HPLC WASTE ACCESSORY KIT for 63mm threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK63X-10</td>
<td>HPLC WASTE ACCESSORY KIT for 63mm threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
### 70mm WASTE CAPS (8TPI RIEKE/HEDWIN)

**Vapor Tight Connection**
Waste manifolds are designed to fit standard 70mm 8TPI threaded containers.

*Note:* Please enquire for 70mm 6TPI options.

**Chemical Resistance**
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with HDPE spin collar.

**Versatile Configuration**
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog*

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### Manifold Caps

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>WM70P-4</td>
<td>WASTE MANIFOLD for 70mm threaded Hedwin/Rieke container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM70X-4</td>
<td>WASTE MANIFOLD for 70mm threaded Hedwin/Rieke container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM70P-10</td>
<td>WASTE MANIFOLD for 70mm threaded Hedwin/Rieke container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
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<tr>
<td>WM70X-10</td>
<td>WASTE MANIFOLD for 70mm threaded Hedwin/Rieke container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
70mm WASTE CAPS (8TPI RIEKE/HEDWIN)

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

### Kit Contents
10-port Waste Manifold
- (3) ¼" NPT Polypropylene Plugs
- (6) ¼-28 PTFE Plugs
- (1) ½ NPT Polypropylene Plug
- (1) Organic Vapor Filter
- (2) 2.2mm OD hard wall tubing connections
- (1) 2.5mm OD hard wall tubing connection
- (3) 1/8" OD hard wall tubing connections
- (2) 1/16" OD hard wall tubing connections
- (3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TO BARB Y CONNECTOR with 1/4" (6.25mm) Barbs, Polypropylene
- (1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
- (1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
- (1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

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<tbody>
<tr>
<td>WAK70P-10</td>
<td>HPLC WASTE ACCESSORY KIT for 70mm threaded container, 10-port; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK70X-10</td>
<td>HPLC WASTE ACCESSORY KIT for 70mm threaded container, 10-port; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
70mm WASTE CAPS (NALGENE)

**Vapor Tight Connection**
Waste manifolds are designed to fit standard 70mm Nalgene lab containers.

**Chemical Resistance**
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with Polypropylene spin collar.

**Versatile Configuration**
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

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<th>Manifold Material</th>
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<tbody>
<tr>
<td>WM70NP-4</td>
<td>WASTE MANIFOLD for 70mm threaded Nalgene container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM70NX-4</td>
<td>WASTE MANIFOLD for 70mm threaded Nalgene container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM70NP-10</td>
<td>WASTE MANIFOLD for 70mm threaded Nalgene container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM70NX-10</td>
<td>WASTE MANIFOLD for 70mm threaded Nalgene container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
70mm WASTE KITS (NALGENE)

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

Kit Contents
10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
(1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

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<tbody>
<tr>
<td>WAK70NP-10</td>
<td>HPLC WASTE ACCESSORY KIT for 70mm threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK70NX-10</td>
<td>HPLC WASTE ACCESSORY KIT for 70mm threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
GL80 WASTE CAPS

Vapor Tight Connection
Waste manifolds are designed to fit standard GL80 threaded containers.

Chemical Resistance
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with Polypropylene spin collar.

Versatile Configuration
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

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<tbody>
<tr>
<td>WM80P-4</td>
<td>WASTE MANIFOLD for GL80 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM80X-4</td>
<td>WASTE MANIFOLD for GL80 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM80P-10</td>
<td>WASTE MANIFOLD for GL80 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT (3) 1/4 NPT (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM80X-10</td>
<td>WASTE MANIFOLD for GL80 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT (3) 1/4 NPT (6) 1/4-28</td>
<td>PTFE</td>
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</tbody>
</table>
GL80 WASTE KITS

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

Kit Contents
10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
(1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

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<tbody>
<tr>
<td>WAK80P-10</td>
<td>HPLC WASTE ACCESSORY KIT for GL80 threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK80X-10</td>
<td>HPLC WASTE ACCESSORY KIT for GL80 threaded container, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>

Waste Kits
**NALGENE 83B WASTE CAPS**

**Vapor Tight Connection**
Waste manifolds are designed to fit standard 83B threaded lab containers.

**Chemical Resistance**
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with Polypropylene spin collar.

**Versatile Configuration**
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog*

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<tbody>
<tr>
<td>WM83P-4</td>
<td>WASTE MANIFOLD for 83B threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM83X-4</td>
<td>WASTE MANIFOLD for 83B threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM83P-10</td>
<td>WASTE MANIFOLD for 83B threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM83X-10</td>
<td>WASTE MANIFOLD for 83B threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
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**NALGENE 83B WASTE KITS**

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

### Kit Contents

10-port Waste Manifold
- (3) ¼” NPT Polypropylene Plugs
- (6) ¼-28 PTFE Plugs
- (1) ½ NPT Polypropylene Plug
- (1) Organic Vapor Filter
- (2) 2.2mm OD hard wall tubing connections
- (1) 2.5mm OD hard wall tubing connection
- (3) ⅛” OD hard wall tubing connections
- (2) ¼” OD hard wall tubing connections
- (3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
- (1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
- (1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
- (1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
- (1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

### Table: Waste Kits

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<tbody>
<tr>
<td>WAK83P-10</td>
<td>HPLC WASTE ACCESSORY KIT for 83B threaded container, 10-port; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK83X-10</td>
<td>HPLC WASTE ACCESSORY KIT for 83B threaded container, 10-port; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
# NALGENE 100-415 WASTE CAPS

**Vapor Tight Connection**
Waste manifolds are designed to fit standard 100-415 threaded containers.

**Chemical Resistance**
Materials of construction include your choice of Polypropylene or PTFE manifold and insert with Polypropylene spin collar.

**Versatile Configuration**
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

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## Manifold Caps

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<tbody>
<tr>
<td>WM100P-4</td>
<td>WASTE MANIFOLD for 100-415 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WM100X-4</td>
<td>WASTE MANIFOLD for 100-415 threaded container, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WM100P-10</td>
<td>WASTE MANIFOLD for 100-415 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT (3) 1/4 NPT (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WM100X-10</td>
<td>WASTE MANIFOLD for 100-415 threaded container, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT (3) 1/4 NPT (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
NALGENE 100-415 WASTE KITS

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

Kit Contents
10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ⅛-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) ⅛” OD hard wall tubing connections
(2) ⅛/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet ⅛ OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th># Ports</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAK100P-10</td>
<td>HPLC WASTE ACCESSORY KIT for 100-415 threaded container, 10-port; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) ½ NPT, (3) ⅛-28, (6) ⅛-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAK100X-10</td>
<td>HPLC WASTE ACCESSORY KIT for 100-415 threaded container, 10-port; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) ½ NPT, (3) ⅛-28, (6) ⅛-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
**Justrite® Container Quick Disconnect Waste Caps**

**Vapor Tight Connection**
Waste manifolds are designed to fit Justrite HPLC quick disconnect safety containers.

**Chemical Resistance**
Materials of construction include your choice of Polypropylene or PTFE manifold with Polypropylene or stainless steel quick disconnect.

**Versatile Configuration**
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. To complete the closed system, attach a Vaplock emissions filter to the separate exhaust port quick disconnect using the appropriate adapter.

*See the emissions and filter section of our catalog

<table>
<thead>
<tr>
<th>Part #</th>
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<th># Ports</th>
<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMJTPP-4</td>
<td>WASTE MANIFOLD for Justrite container, 4-port with (3) 1/4” NPT, (1) 1/2” NPT, Polypropylene Manifold, Polypropylene disconnect</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WMJPS-4</td>
<td>WASTE MANIFOLD for Justrite container, 4-port with (3) 1/4” NPT, (1) 1/2” NPT, Polypropylene Manifold, Stainless Steel disconnect</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>WMJTXS-4</td>
<td>WASTE MANIFOLD for Justrite container, 4-port with (3) 1/4” NPT, (1) 1/2” NPT, PTFE Manifold, Stainless Steel disconnect</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>WMJTPP-10</td>
<td>WASTE MANIFOLD for Justrite container container, 10-port with (3) 1/4” NPT, (1) 1/2” NPT, (6) 1/4-28, Polypropylene Manifold, Polypropylene disconnect</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WMJPS-10</td>
<td>WASTE MANIFOLD for Justrite container container, 10-port with (3) 1/4” NPT, (1) 1/2” NPT, (6) 1/4-28, Polypropylene Manifold, Stainless Steel disconnect</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WMJTXS-10</td>
<td>WASTE MANIFOLD for Justrite container container, 10-port with (3) 1/4” NPT, (1) 1/2” NPT, (6) 1/4-28, PTFE Manifold, Stainless Steel disconnect</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
**JUSTRITE® CONTAINER QUICK DISCONNECT WASTE KITS**

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

**Kit Contents**

10-port Waste Manifold

- (3) ¼” NPT Polypropylene Plugs
- (6) ¼-28 PTFE Plugs
- (1) ½ NPT Polypropylene Plug
- (1) Organic Vapor Filter
- (2) 2.2mm OD hard wall tubing connections
- (1) 2.5mm OD hard wall tubing connection
- (3) 1/8" OD hard wall tubing connections
- (2) 1/16" OD hard wall tubing connections
- (3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
- (1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
- (1) BARB TO BARB Y CONNECTOR with 1/4" (6.25mm) Barbs, Polypropylene
- (1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
- (1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
- (1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

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<table>
<thead>
<tr>
<th>Part #</th>
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<th>Manifold Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAKJTP-10</td>
<td>HPLC WASTE ACCESSORY KIT for Justrite container, 10-port; includes Polypropylene Manifold, Polypropylene Disconnect, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAKJPS-10</td>
<td>HPLC WASTE ACCESSORY KIT for Justrite container, 10-port; includes Polypropylene Manifold, Stainless Steel Disconnect, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAKJXS-10</td>
<td>HPLC WASTE ACCESSORY KIT for Justrite container, 10-port; includes PTFE Manifold, Stainless Steel Disconnect, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
DRUM WASTE CAPS (2” FINE THREAD)

Vapor Tight Connection
Waste manifolds are designed to fit US standard 2” drum bung with fine threads.

Chemical Resistance
Materials of construction include your choice of Polypropylene or PTFE manifold with Polypropylene drum thread adapter.

Versatile Configuration
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog

<table>
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<tbody>
<tr>
<td>DMFTP-4</td>
<td>WASTE MANIFOLD for Drum 2” Fine thread, 4-port with (3) 1/4” NPT, (1) 1/2” NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>DMFTX-4</td>
<td>WASTE MANIFOLD for Drum 2” Fine thread, 4-port with (3) 1/4” NPT, (1) 1/2” NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>DMFTP-10</td>
<td>WASTE MANIFOLD for Drum 2” Fine thread, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>DMFTX-10</td>
<td>WASTE MANIFOLD for Drum 2” Fine thread, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
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</table>
DRUM WASTE KITS (2” FINE THREAD)

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

Kit Contents
10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
(1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.
**DRUM WASTE CAPS (2” COARSE THREAD)**

**Vapor Tight Connection**
Waste manifolds are designed to fit US standard 2” drum bung with fine threads.

**Chemical Resistance**
Materials of construction include your choice of Polypropylene or PTFE manifold with Polypropylene drum thread adapter.

**Versatile Configuration**
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator.

*See the emissions and filter section of our catalog*

<table>
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<tr>
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<th>Manifold Material</th>
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<tbody>
<tr>
<td>DMCTP-4</td>
<td>WASTE MANIFOLD for Drum 2” course thread, 4-port with (3) 1/4 NPT, (1) 1/2 NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>DMCTX-4</td>
<td>WASTE MANIFOLD for Drum 2” course thread, 4-port with (3) 1/4 NPT, (1) 1/2 NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>DMCTP-10</td>
<td>WASTE MANIFOLD for Drum 2” course thread, 10-port with (1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>DMCTX-10</td>
<td>WASTE MANIFOLD for Drum 2” course thread, 10-port with (1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
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DRUM WASTE KITS (2” COARSE THREAD)

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

Kit Contents

10-port Waste Manifold
(3) ¼” NPT Polypropylene Plugs
(6) ¼-28 PTFE Plugs
(1) ½ NPT Polypropylene Plug
(1) Organic Vapor Filter
(2) 2.2mm OD hard wall tubing connections
(1) 2.5mm OD hard wall tubing connection
(3) 1/8” OD hard wall tubing connections
(2) 1/16” OD hard wall tubing connections
(3) BARBED TUBING CONNECTION 1/4 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 1/8 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/16 ID tubing x 1/4 NPT Polypropylene
(1) BARBED TUBING CONNECTION 3/8 ID tubing x 1/4 NPT Polypropylene
(1) BARB TO BARB Y CONNECTOR with 1/4” (6.25mm) Barbs, Polypropylene
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet 1/8 OD PTFE tubing
(1) FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter

Container Not Included.

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<tbody>
<tr>
<td>WAKDMCP-10</td>
<td>HPLC WASTE ACCESSORY KIT for Drum 2” course thread, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAKDMCX-10</td>
<td>HPLC WASTE ACCESSORY KIT for Drum 2” course thread, 10-port with (1) 1/2” NPT, (3) 1/4” NPT, (6) 1/4-28; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
**Panel Mount Waste Caps**

**Vapor Tight Connection**
Waste manifolds are configured to fit an aperture drilled to 1-1/4” ID, with panel thickness of 1/16” - 1/2”. An area 1-3/4” diameter free of obstruction around the aperture is required for use. Manifold drains to a 1/2” NPT common port at the base.

*Inquire for cam lock and quick disconnect options

**Chemical Resistance**
Materials of construction include your choice of Polypropylene or PTFE manifold and lock nut.

**Versatile Configuration**
Manifolds can be configured for barbed connections, compression fittings, 1/4-28 fitting and ferrule sets. All manifolds are designed to accommodate our EF-100 Filter and indicator

*See the emissions and filter section of our catalog

<table>
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<tbody>
<tr>
<td>PMP-4</td>
<td>WASTE MANIFOLD, Panel-mount, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, Polypropylene</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PP</td>
</tr>
<tr>
<td>PMX-4</td>
<td>WASTE MANIFOLD, Panel-mount, 4-port with (3) 1/4&quot; NPT, (1) 1/2&quot; NPT, PTFE</td>
<td>(3) 1/4 NPT, (1) 1/2 NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>PMP-10</td>
<td>WASTE MANIFOLD, Panel-mount, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, Polypropylene</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>PMX-10</td>
<td>WASTE MANIFOLD, Panel-mount, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28, PTFE</td>
<td>(1) 1/2 NPT, (3) 1/4 NPT, (6) 1/4-28</td>
<td>PTFE</td>
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</tbody>
</table>
**Panel Mount Waste Kits**

VAPLOCK™ Closed Systems for solvent containment minimizes leaks, spills, and vapor escape from solvent waste and supply containers. Use Vaplock™ kits to provide an effective means of sealed solvent delivery, and select from waste containment kits to collect effluents while minimizing harmful solvent exhaust. All Vaplock™ products are designed for ease of use and adaptability, and will conform to a broad range of standard laboratory solvent containers. Waste Accessory Kits include a solvent collection manifold, an organic solvent exhaust filter with breakthrough indicator, and adapters, plugs, and tubing connections required for installation on typical HPLC instruments.

- Minimize exposure to harmful chemical vapors
- Collect solvent waste from multiple effluent streams
- Highly adaptable and conforms to a broad range of containment types

**Kit Contents**

10-port Waste Manifold  
(3) ¼" NPT Polypropylene Plugs  
(6) ¼-28 PTFE Plugs  
(1) ½ NPT Polypropylene Plug  
(1) Organic Vapor Filter  
(2) 2.2mm OD hard wall tubing connections  
(1) 2.5mm OD hard wall tubing connection  
(3) ⅛" OD hard wall tubing connections  
(2) ⅛/16" OD hard wall tubing connections  
(3) BARBED TUBING CONNECTION ⅛ ID tubing x ⅛ NPT Polypropylene  
(1) BARBED TUBING CONNECTION ⅛ ID tubing x ⅛ NPT Polypropylene  
(1) BARBED TUBING CONNECTION 3/16 ID tubing x ⅛ NPT Polypropylene  
(1) BARBED TUBING CONNECTION ⅛ ID tubing x ⅛ NPT Polypropylene  
(1) BARB TO BARB Y CONNECTOR with ⅛" (6.25mm) Barbs, Polypropylene  
(1) HARDWALL TUBE EXTENSION includes union connections and 5 feet ⅛ OD PTFE tubing  
(1) FILTER ADAPTER ⅛ NPT x ⅛/2 NPT polypropylene  
(1) BREAKTHROUGH COLOR INDICATOR for Vaplock™ organic vapor filter  

Container Not Included.

**Waste Kits**

<table>
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<tbody>
<tr>
<td>WAKPMP-10</td>
<td>HPLC WASTE ACCESSORY KIT for Panel Mount, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28; includes Polypropylene Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>1/2 NPT, 1/4 NPT, 1/4-28</td>
<td>PP</td>
</tr>
<tr>
<td>WAKPMX-10</td>
<td>HPLC WASTE ACCESSORY KIT for Panel Mount, 10-port with (1) 1/2&quot; NPT, (3) 1/4&quot; NPT, (6) 1/4-28; includes PTFE Manifold, Fittings Kit, Exhaust Filter with adapter and color indicator</td>
<td>1/2 NPT, 1/4 NPT, 1/4-28</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
CHEMICAL EXHAUST FILTERS

Emission Reduction
Use Vaplock exhaust filters to mitigate health hazards and reduce harmful chemical emissions and odors from laboratory solvent containers. Developed and tested specifically for HPLC organic solvents, they may be used in conjunction with Vaplock breakthrough color indicators to determine longevity and establish a replacement schedule.

Adaptable Design
Available in 75g and 300g cartridge sizes, Vaplock filters include activated media for organic solvents and are constructed of an HDPE housing with 1/4" NPT female receiving port. Attach to various point emission sources with Vaplock Filter Adapters. Please inquire for other sizes and formats.

Filter Details

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Indicator Included</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-100</td>
<td>VAPLOCK EXHAUST FILTER, 75g with 1/4&quot; NPT female port</td>
<td>NO</td>
</tr>
<tr>
<td>EF-100V</td>
<td>VAPLOCK EXHAUST FILTER, 75g with 1/4&quot; NPT female port, 5/PK</td>
<td>NO</td>
</tr>
<tr>
<td>EF-100-102</td>
<td>VAPLOCK EXHAUST FILTER KIT with indicator, 75g with 1/4&quot; NPT female port</td>
<td>YES</td>
</tr>
<tr>
<td>EF-200</td>
<td>VAPLOCK EXHAUST FILTER, 300g with 1/4&quot; NPT female port</td>
<td>NO</td>
</tr>
</tbody>
</table>
BREAKTHROUGH INDICATORS

Colorimetric Change
Designed to detect the end-of-service life for Vaplock exhaust filters, breakthrough indicators respond under exposure to organic solvent vapors. Final effects display within minutes or hours of exposure. Color saturation varies by solvent. Replace the exhaust filter when a variation occurs. Housing is acrylic, with borosilicate glass option available.

Multiple Solvent Detection
Breakthrough Indicators may be used with the following chemicals. This list is not comprehensive. Please inquire for detection of other organic solvents: Acetone, Acetonitrile, Acids (i.e. Acetic Acid, Hydrochloric Acid, Trifluoroacetic Acid, Trichloroacetic Acid), Acrylonitrile, Aliphatic hydrocarbons (i.e. Hexane), Aromatic Hydrocarbons (i.e. Benzene, Toluene and Xylenes), Chlorinated hydrocarbons (i.e. Carbon Tetrachloride, Chloroform and Methylene Chloride), Ethanol, Ethyl Acetate, Ethyl Acrylate, Ethyl Ether, Gasoline, HFIP (Hexafluoroisopropanol), Methanol, Methyl Acrylate, Naphtha, Phenol, Sulfolane, THF (Tetrahydrofuran).

Product Usage
Not for use in the presence of basic vapors in high concentrations (i.e. Pyridine and aliphatic amines), which impair performance of the indicator. Does not respond to gaseous aliphatic hydrocarbons or aldehydes. Avoid Exposure to heat or direct sunlight. Use only at room temperature. Shelf life is 12 months. For analytical research purposes only.

Indicator Details

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Filter Included</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-102</td>
<td>BREAKTHROUGH INDICATOR for Vaplock exhaust filters</td>
<td>NO</td>
</tr>
<tr>
<td>EF-102V</td>
<td>BREAKTHROUGH INDICATOR for Vaplock exhaust filters, 5/PK</td>
<td>NO</td>
</tr>
<tr>
<td>EF-100-102</td>
<td>VAPLOCK EXHAUST FILTER KIT with indicator, 75g with 1/4“ NPT female port</td>
<td>YES</td>
</tr>
</tbody>
</table>
FILTER ADAPTERS

Versatile Configurations
Vaplock EF-100 and EF-200 exhaust filters may be attached to various point-source emissions by use of the appropriate adapter. Each filter includes a 1/4” female NPT port; select from the list below to adapt filters to a typical system, or inquire for assistance with special requirements. All adapters are reusable. Please note that options for Justrite® safety containers are made to fit either stainless steel or polypropylene quick disconnects, but are not interchangeable.

Carbon Filter Adapters (page 1 of 2)

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Adapter Type</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA-001</td>
<td>FILTER ADAPTER luer lock x 1/4 NPT natural Polypropylene</td>
<td>Straight</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>FA-004</td>
<td>FILTER ADAPTER 1/4 NPT x 1/4 NPT polypropylene</td>
<td>Straight</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>FA-005</td>
<td>FILTER ADAPTER 1/4 NPT x 1/2 NPT polypropylene</td>
<td>Straight</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>FA-010</td>
<td>FILTER ADAPTER with PP and EPDM Quick Disconnect for Justrite Centura containers</td>
<td>Straight</td>
<td>Polypropylene EPDM</td>
</tr>
<tr>
<td>FA-014</td>
<td>FILTER ADAPTER, 90 degree elbow, 1/4” NPT x 1/2” NPT, polypropylene</td>
<td>90 Degree Elbow</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>FA-015</td>
<td>FILTER ADAPTER with SS and Teflon quick disconnect for Justrite Centura containers</td>
<td>Straight</td>
<td>Stainless Steel Teflon</td>
</tr>
<tr>
<td>FA-017</td>
<td>FILTER ADAPTER 90 degree elbow with Polypropylene and EPDM Quick Disconnect for Justrite Centura containers</td>
<td>90 Degree Elbow</td>
<td>Polypropylene EPDM</td>
</tr>
<tr>
<td>FA-019</td>
<td>FILTER ADAPTER, 90 degree elbow, with SS and Teflon Quick Disconnect for Justrite Centura containers</td>
<td>90 Degree Elbow</td>
<td>Stainless Steel Teflon</td>
</tr>
<tr>
<td>FA-023</td>
<td>FILTER ADAPTER, 45 degree elbow, 1/4” MNPT x 1/4” MNPT, Nylon</td>
<td>45 Degree Elbow</td>
<td>Nylon</td>
</tr>
</tbody>
</table>
FILTER ADAPTERS

Versatile Configurations
Vaplock EF-100 and EF-200 exhaust filters may be attached to various point-source emissions by use of the appropriate adapter. Each filter includes a 1/4" female NPT port; select from the list below to adapt filters to a typical system, or inquire for assistance with special requirements. All adapters are reusable. Please note that options for Justrite® safety containers are made to fit either stainless steel or polypropylene quick disconnects, but are not interchangeable.

Carbon Filter Adapters (page 2 of 2)

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Adapter Type</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA-026</td>
<td>FILTER ADAPTER, 90 degree elbow, 1/4&quot; MNPT x 1/4&quot;</td>
<td>90 Degree Elbow</td>
<td>Polypropylene</td>
</tr>
<tr>
<td></td>
<td>MNPT, Polypropylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FA-027</td>
<td>FILTER ADAPTER, 1/4&quot; NPT male x 1/4-28 male, red PEEK</td>
<td>Straight</td>
<td>PEEK</td>
</tr>
<tr>
<td>FA-028</td>
<td>ADJUSTABLE FILTER ADAPTER for 1/4&quot; NPT female port, black acetal</td>
<td>Adjustable</td>
<td>Acetal</td>
</tr>
<tr>
<td>FA-029</td>
<td>ADJUSTABLE FILTER ADAPTER for 1/2&quot; NPT female port, black acetal</td>
<td>Adjustable</td>
<td>Acetal</td>
</tr>
<tr>
<td>FA-030</td>
<td>ADJUSTABLE FILTER ADAPTER, with PP and EPDM Quick Disconnect for Justrite Centura containers, black acetal</td>
<td>Adjustable</td>
<td>Polypropylene EPDM, Acetal</td>
</tr>
<tr>
<td>FA-032</td>
<td>ADJUSTABLE FILTER ADAPTER, with SS and Teflon Quick Disconnect for Justrite Centura containers, black acetal</td>
<td>Adjustable</td>
<td>SS , EPDM Acetal</td>
</tr>
<tr>
<td>FA-036</td>
<td>FILTER ADAPTER, 1/8&quot; NPT x 1/4&quot; NPT, polypropylene</td>
<td>Straight</td>
<td>Polypropylene</td>
</tr>
</tbody>
</table>
**TUBING CONNECTIONS**

For 1/4-28 and 5/16-24 UNF Ports

Compression fittings designed for liquid-tight connection of semi-rigid tubing to flat-bottom 1/4-28 and 5/16-24 port threads, for tubing diameters 1/16" to 3/16" OD. Each connection is comprised of a two-piece nut and ferrule system, useful for pressurized applications under 500 psi. Make a selection based on your tubing outside diameter (OD); fittings are color-coded by tubing size for easy identification. These bottom-sealing UNF fittings do not require PTFE tape. Part numbers ending "X" denote a pack of 10 fittings.

**Fittings for Semi-Rigid Tubing**

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Color</th>
<th>Tubing OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQ-108</td>
<td>TUBING CONNECTION, 4.0mm OD tubing x 5/16-24, natural Kel-F ferrule.</td>
<td>Brown</td>
<td>4 mm</td>
</tr>
<tr>
<td>AQ-109</td>
<td>TUBING CONNECTION, 3/16&quot; OD tubing x 5/16-24, natural Kel-F ferrule.</td>
<td>White</td>
<td>3/16 in</td>
</tr>
<tr>
<td>AQ-150X</td>
<td>TUBING CONNECTION, 1/16&quot; OD tubing x 1/4-28, Green Polypropylene ferrule. 10/PK</td>
<td>Green</td>
<td>1/16 in</td>
</tr>
<tr>
<td>AQ-151X</td>
<td>TUBING CONNECTION, 1.8-2.0mm OD tubing x 1/4-28, Red Polypropylene ferrule. 10/PK</td>
<td>Red</td>
<td>1.8-2.0 mm</td>
</tr>
<tr>
<td>AQ-152X</td>
<td>TUBING CONNECTION, 2.2mm (.085&quot;) OD tubing x 1/4-28, Black Polypropylene ferrule, White PTFE ferrule. 10/PK</td>
<td>Black</td>
<td>2.2 mm</td>
</tr>
<tr>
<td>AQ-153X</td>
<td>TUBING CONNECTION, 2.5mm OD tubing x 1/4-28, Orange Polypropylene ferrule. 10/PK</td>
<td>Orange</td>
<td>2.5 mm</td>
</tr>
<tr>
<td>AQ-154X</td>
<td>TUBING CONNECTION, 3.0mm OD tubing x 1/4-28, Yellow Polypropylene ferrule. 10/PK</td>
<td>Yellow</td>
<td>3.0 mm</td>
</tr>
<tr>
<td>AQ-155X</td>
<td>TUBING CONNECTION, 1/8&quot; OD tubing x 1/4-28, Blue Polypropylene ferrule. 10/PK</td>
<td>Blue</td>
<td>1/8 in</td>
</tr>
</tbody>
</table>
TUBING CONNECTION ADAPTERS

For 1/4” NPT Ports
Compression fittings designed for liquid-tight connection of semi-rigid tubing to 1/4” NPT ports, for tubing diameters 1/16” to 3/16” OD. Each connection is comprised of a two-piece nut and ferrule system with polypropylene thread adapter. Useful for pressurized applications under 500 psi. Make a selection based on your tubing outside diameter (OD); fittings are color-coded by tubing size for easy identification. Wrap NPT threads 3-4 times with PTFE tape and wrench tighten for leak-resistant connections.

Fittings for Semi-Rigid Tubing

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>OD</th>
<th>Thread</th>
<th>Material</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-108</td>
<td>TUBING CONNECTION 4.0mm OD tubing x 1/4” NPT natural PTFE fitting natural Kel-F ferrule PP body.</td>
<td>4 mm</td>
<td>1/4” NPT</td>
<td>Polypropylene</td>
<td>Brown</td>
</tr>
<tr>
<td>AC-109</td>
<td>TUBING CONNECTION 3/16 OD tubing x 1/4” NPT white Delrin fitting blue Tefzel ferrule PP body.</td>
<td>3/16 in</td>
<td>1/4” NPT</td>
<td>Polypropylene</td>
<td>White</td>
</tr>
<tr>
<td>AC-150</td>
<td>TUBING CONNECTION, 1/16” OD tubing x 1/4” NPT, green Polypropylene fitting, Blue Tefzel ferrule, PP adapter.</td>
<td>1/16 in</td>
<td>1/4” NPT</td>
<td>Polypropylene</td>
<td>Green</td>
</tr>
<tr>
<td>AC-151</td>
<td>TUBING CONNECTION, 1.8-2.0mm OD tubing x 1/4” NPT, red Polypropylene fitting, Green Tefzel ferrule, PP adapter.</td>
<td>1.8-2 mm</td>
<td>1/4” NPT</td>
<td>Polypropylene Tefzel®</td>
<td>Red</td>
</tr>
<tr>
<td>AC-152</td>
<td>TUBING CONNECTION, 2.2mm OD tubing x 1/4” NPT, black Polypropylene fitting, natural Tefzel ferrule, PP adapter.</td>
<td>2.2 mm</td>
<td>1/4” NPT</td>
<td>Polypropylene Tefzel®</td>
<td>Black</td>
</tr>
<tr>
<td>AC-153</td>
<td>TUBING CONNECTION, 2.5mm OD tubing x 1/4” NPT, orange Polypropylene fitting, Natural Tefzel ferrule, PP adapter.</td>
<td>2.5 mm</td>
<td>1/4” NPT</td>
<td>Polypropylene Tefzel®</td>
<td>Orange</td>
</tr>
<tr>
<td>AC-154</td>
<td>TUBING CONNECTION, 3.0mm OD tubing x 1/4” NPT, yellow 3 mm Polypropylene fitting, Orange Tefzel ferrule, PP adapter.</td>
<td>3 mm</td>
<td>1/4” NPT</td>
<td>Polypropylene Tefzel®</td>
<td>Yellow</td>
</tr>
<tr>
<td>AC-155</td>
<td>TUBING CONNECTION, 1/8” OD tubing x 1/4” NPT, blue Polypropylene fitting, Yellow Tefzel ferrule, PP adapter.</td>
<td>1/8 in</td>
<td>1/4” NPT</td>
<td>Polypropylene Tefzel®</td>
<td>Blue</td>
</tr>
</tbody>
</table>
BARBED TUBING CONNECTIONS

For 1/8”, 1/4”, and 1/2” NPT Ports

A semi-permanent connection for soft-walled tubing only, barbed fittings are an economical means of connecting tubing to Vaplock manifold ports with NPT threads. For tubing diameters 1/16” to 1/2” ID. All fittings are Polypropylene. Make a selection based on your tubing inside diameter (ID). Wrap NPT threads 3-4 times with PTFE tape and wrench tighten for leak-resistant connections. Part numbers ending “X” denote a pack of 10 fittings.

Fittings for Soft-Wall Tubing (page 1 of 2)

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Tubing ID</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB-111X</td>
<td>BARBED TUBING CONNECTION, 1/16&quot; ID tubing x 1/4&quot; NPT, Polypropylene 10/PK</td>
<td>1/16 in</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>AB-112X</td>
<td>BARBED TUBING CONNECTION, 1/8&quot; ID tubing x 1/4&quot; NPT, Polypropylene 10/PK</td>
<td>1/8 in</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>AB-113X</td>
<td>BARBED TUBING CONNECTION, 3/16&quot; ID tubing x 1/4&quot; NPT, Polypropylene 10/PK</td>
<td>3/16 in</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>AB-114X</td>
<td>BARBED TUBING CONNECTION, 1/4&quot; ID tubing x 1/4&quot; NPT, Polypropylene 10/PK</td>
<td>1/4 in</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>AB-115X</td>
<td>BARBED TUBING CONNECTION, 5/16&quot; ID tubing x 1/4&quot; NPT, Polypropylene 10/PK</td>
<td>5/16 in</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>AB-116X</td>
<td>BARBED TUBING CONNECTION, 3/8&quot; ID tubing x 1/4&quot; NPT, Polypropylene 10/PK</td>
<td>3/8 in</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>AB-117X</td>
<td>BARBED TUBING CONNECTION, 1/2&quot; ID tubing x 1/4&quot; NPT, Polypropylene 10/PK</td>
<td>1/2 in</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>AB-118X</td>
<td>BARBED TUBING CONNECTION, 5/32&quot; ID tubing x 1/4&quot; NPT, Polypropylene 10/PK</td>
<td>5/32 in</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>AB-121X</td>
<td>BARBED TUBING CONNECTION, 1/16&quot; ID tubing x 1/8&quot; NPT, Polypropylene 10/PK</td>
<td>1/16 in</td>
<td>1/8&quot; NPT</td>
</tr>
<tr>
<td>AB-122X</td>
<td>BARBED TUBING CONNECTION, 1/8&quot; ID tubing x 1/8&quot; NPT, Polypropylene 10/PK</td>
<td>1/8 in</td>
<td>1/8&quot; NPT</td>
</tr>
</tbody>
</table>
BARBED TUBING CONNECTIONS

For 1/8”, 1/4”, and 1/2” NPT Ports
A semi-permanent connection for soft-walled tubing only, barbed fittings are an economical means of connecting tubing to Vaplock manifold ports with NPT threads. For tubing diameters 1/16” to 1/2” ID. All fittings are Polypropylene. Make a selection based on your tubing inside diameter (ID). Wrap NPT threads 3-4 times with PTFE tape and wrench tighten for leak-resistant connections. Part numbers ending “X” denote a pack of 10 fittings.

Fittings for Soft-Wall Tubing (page 2 of 2)

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Tubing ID</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB-123X</td>
<td>BARBED TUBING CONNECTION, 3/16” ID tubing x 1/8” NPT, Polypropylene 10/PK</td>
<td>3/16 in</td>
<td>1/8” NPT</td>
</tr>
<tr>
<td>AB-124X</td>
<td>BARBED TUBING CONNECTION, 1/4” ID tubing x 1/8” NPT, Polypropylene 10/PK</td>
<td>1/4 in</td>
<td>1/8” NPT</td>
</tr>
<tr>
<td>AB-125X</td>
<td>BARBED TUBING CONNECTION, 5/16” ID tubing x 1/8” NPT, Polypropylene 10/PK</td>
<td>5/16 in</td>
<td>1/8” NPT</td>
</tr>
<tr>
<td>AB-126X</td>
<td>BARBED TUBING CONNECTION, 3/8” ID tubing x 1/8” NPT, Polypropylene 10/PK</td>
<td>3/8 in</td>
<td>1/8” NPT</td>
</tr>
<tr>
<td>AB-204X</td>
<td>BARBED TUBING CONNECTION, 1/4” ID tubing x 1/2” NPT, Polypropylene 10/PK</td>
<td>1/4 in</td>
<td>1/2” NPT</td>
</tr>
<tr>
<td>AB-205X</td>
<td>BARBED TUBING CONNECTION, 3/8” ID tubing x 1/2” NPT, Polypropylene 10/PK</td>
<td>3/8 in</td>
<td>1/2” NPT</td>
</tr>
<tr>
<td>AB-206X</td>
<td>BARBED TUBING CONNECTION, 1/2” ID tubing x 1/2” NPT, Polypropylene 10/PK</td>
<td>1/2 in</td>
<td>1/2” NPT</td>
</tr>
<tr>
<td>AB-207X</td>
<td>BARBED TUBING CONNECTION, 5/8” ID tubing x 1/2” NPT, Polypropylene 10/PK</td>
<td>5/8 in</td>
<td>1/2” NPT</td>
</tr>
<tr>
<td>AB-208X</td>
<td>BARBED TUBING CONNECTION, 3/4” ID tubing x 1/2” NPT, Polypropylene 10/PK</td>
<td>3/4 in</td>
<td>1/2” NPT</td>
</tr>
</tbody>
</table>

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P: 800.241.5145 • F: 951.566.0904 • E: sales@WesternFluids.net • www.VapLock.com
LARGE-BORE TUBING CONNECTIONS

For 1/4” NPT and 1/2” NPT Ports
Compression fittings designed for liquid-tight connection of semi-rigid tubing to NPT ports, for tubing diameters 1/4” to 3/4” OD. Useful for pressurized applications under 100 psi. Make a selection based on your tubing outside diameter (OD). All fittings are comprised of 2-piece molded Polypropylene components and do not include a separate ferrule. Wrap NPT threads 3-4 times with PTFE tape and wrench tighten for leak-resistant connections. Part numbers ending “V” denote a pack of 5 fittings.

Fittings for Semi-Rigid Tubing

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>OD</th>
<th>Thread</th>
<th>Material</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-113V</td>
<td>TUBING CONNECTION 1/4 and 6mm OD tubing x 1/4 NPT Polypropylene 5-pack.</td>
<td>1/4 in</td>
<td>1/4” NPT</td>
<td>Polypropylene</td>
<td>Natural</td>
</tr>
<tr>
<td>AC-114V</td>
<td>TUBING CONNECTION 5/16 OD tubing x 1/4 NPT Polypropylene 5-pack.</td>
<td>5/16 in</td>
<td>1/4” NPT</td>
<td>Polypropylene</td>
<td>Natural</td>
</tr>
<tr>
<td>AC-115V</td>
<td>TUBING CONNECTION 3/8 OD tubing x 1/4 NPT Polypropylene 5-pack.</td>
<td>3/8 in</td>
<td>1/4” NPT</td>
<td>Polypropylene</td>
<td>Natural</td>
</tr>
<tr>
<td>AC-116V</td>
<td>TUBING CONNECTION 1/2 OD tubing x 1/4 NPT Polypropylene 5-pack.</td>
<td>1/2 in</td>
<td>1/4” NPT</td>
<td>Polypropylene</td>
<td>Natural</td>
</tr>
<tr>
<td>AC-204V</td>
<td>TUBING CONNECTION 3/8 OD tubing x 1/2 NPT Polypropylene 5-pack.</td>
<td>3/8 in</td>
<td>1/2” NPT</td>
<td>Polypropylene</td>
<td>Natural</td>
</tr>
<tr>
<td>AC-205V</td>
<td>TUBING CONNECTION 1/2 OD tubing x 1/2 NPT Polypropylene 5-pack.</td>
<td>1/2 in</td>
<td>1/2” NPT</td>
<td>Polypropylene</td>
<td>Natural</td>
</tr>
<tr>
<td>AC-206V</td>
<td>TUBING CONNECTION 5/8 OD tubing x 1/2 NPT Polypropylene 5-pack.</td>
<td>5/8 in</td>
<td>1/2” NPT</td>
<td>Polypropylene</td>
<td>Natural</td>
</tr>
<tr>
<td>AC-207V</td>
<td>TUBING CONNECTION 3/4 OD tubing x 1/2 NPT Polypropylene 5-pack.</td>
<td>3/4 in</td>
<td>1/2 NPT</td>
<td>Polypropylene</td>
<td>Natural</td>
</tr>
</tbody>
</table>
PORT PLUGS

For NPT and UNF Ports
Available in multiple materials, use the following plugs to seal unused manifold and bottle cap ports. Options for NPT ports are 1/8", 1/4", 3/8", and 1/2" NPT, and should be wrapped 3-4 times with PTFE tape for leak-resistant connections. Bottom-sealing UNF thread options include 1/4-28 and 5/16-24, and do not require PTFE tape. Part numbers ending "X" denote a pack of 10 plugs.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Thread</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL-101X</td>
<td>PLUGS, 1/4&quot; NPT, Polypropylene, 10/PK</td>
<td>1/4&quot; NPT</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>PL-102X</td>
<td>PLUG, 1/2&quot; NPT, Polypropylene 10/PK</td>
<td>1/2&quot; NPT</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>PL-103X</td>
<td>PLUG, 1/4-28, black Delrin 10/PK</td>
<td>1/4-28</td>
<td>Delrin</td>
</tr>
<tr>
<td>PL-104X</td>
<td>PLUG, 1/4-28, PTFE 10/PK</td>
<td>1/4-28</td>
<td>PTFE</td>
</tr>
<tr>
<td>PL-105X</td>
<td>PLUG, 1/4 NPT Male, PTFE</td>
<td>1/4&quot;NPT</td>
<td>PTFE</td>
</tr>
<tr>
<td>PL-106X</td>
<td>PLUG, 3/8&quot; NPT male, Polypropylene 10/PK</td>
<td>3/8&quot; NPT</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>PL-108X</td>
<td>PLUG, 1/8&quot; NPT, Polypropylene 10/PK</td>
<td>1/8&quot; NPT</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>PL-113X</td>
<td>PLUG, 5/16-24, PTFE</td>
<td>5/16-24</td>
<td>PTFE</td>
</tr>
</tbody>
</table>
VENTILATION CONTROL VALVES

For 1/4-28 and 1/4” NPT Ports
Although Vaplock solvent supply caps are available with built-in check valve elements, ventilation control valves may also be purchased as stand-alone units. With Air Inlet, Relief, and Reversible configurations, vent control valves may be selected in two cracking pressures and with Viton, EPDM, and FFKM seal materials. Air inlet valves permit air to enter a bottle to displace vacuum while solvent is pumped out to an instrument. Relief valves allow pressurized bottle contents to escape above the cracking pressure. Reversible valves may serve either purpose, air inlet or relief, depending on the orientation once installed.

Evaporation Control and Relief Valves

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Thread</th>
<th>Cracking Pressure</th>
<th>Seal Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>DV-115</td>
<td>AIR INLET VALVE, 1/4-28 male, PTFE with Viton check element</td>
<td>1/4-28</td>
<td>0.1 - 0.25 psi</td>
<td>Viton</td>
</tr>
<tr>
<td>DV-115E</td>
<td>AIR INLET VALVE, 1/4-28 male, PTFE with EPDM check element</td>
<td>1/4-28</td>
<td>0.1 - 0.25 psi</td>
<td>EPDM</td>
</tr>
<tr>
<td>DV-215</td>
<td>AIR INLET VALVE, 1/4-28 male, PTFE with FFKM check element</td>
<td>1/4-28</td>
<td>0.1 - 0.25 psi</td>
<td>FFKM</td>
</tr>
<tr>
<td>DV-116</td>
<td>RELIEF VALVE, 1/4-28 male, PTFE with Viton check element</td>
<td>1/4-28</td>
<td>0.1 - 0.25 psi</td>
<td>Viton</td>
</tr>
<tr>
<td>DV-116E</td>
<td>RELIEF VALVE, 1/4-28 male, PTFE with EPDM check element</td>
<td>1/4-28</td>
<td>0.1 - 0.25 psi</td>
<td>EPDM</td>
</tr>
<tr>
<td>DV-216</td>
<td>RELIEF VALVE, 1/4-28 male, PTFE with FFKM check element</td>
<td>1/4-28</td>
<td>0.1 - 0.25 psi</td>
<td>FFKM</td>
</tr>
<tr>
<td>DV-118</td>
<td>RELIEF VALVE, 1/4-28 male, PTFE with Viton check element</td>
<td>1/4-28</td>
<td>1 - 2.5 psi</td>
<td>Viton</td>
</tr>
<tr>
<td>DV-118E</td>
<td>RELIEF VALVE, 1/4-28 male, PTFE with EPDM check element</td>
<td>1/4-28</td>
<td>1 - 2.5 psi</td>
<td>EPDM</td>
</tr>
<tr>
<td>DV-218</td>
<td>RELIEF VALVE, 1/4-28 male, PTFE with FFKM check element</td>
<td>1/4-28</td>
<td>1 - 2.5 psi</td>
<td>FFKM</td>
</tr>
<tr>
<td>DV-136</td>
<td>REVERSIBLE CONTROL VALVE, 1/4” MNPT x 1/4” MNPT, Polypropylene with EPDM check element</td>
<td>1/4” NPT</td>
<td>0.1 - 0.25 psi</td>
<td>EPDM</td>
</tr>
<tr>
<td>DV-137</td>
<td>REVERSIBLE CONTROL VALVE, 1/4” MNPT x 1/4” MNPT, Polypropylene with Viton check element</td>
<td>1/4” NPT</td>
<td>0.1 - 0.25 psi</td>
<td>Viton</td>
</tr>
<tr>
<td>DV-138</td>
<td>REVERSIBLE CONTROL VALVE, 1/4” MNPT x 1/4” MNPT, Polypropylene with FFKM check element</td>
<td>1/4” NPT</td>
<td>0.1 - 0.25 psi</td>
<td>FFKM</td>
</tr>
</tbody>
</table>
**SAFETY FUNNEL**

**Western Fluids** • 9927 W Emerald Street • Boise, ID 83704
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**Safety Funnel Options**

- **SF-003 WITH POLYPROPYLENE DISCONNECT AND EPDM O-RING**
- **SF-005 WITH STAINLESS STEEL DISCONNECT AND PTFE O-RING**
- **SF-010 NO QUICK DISCONNECT, WITH 1/2" NPT MALE THREAD**

**Versatile Configurations**

VAPLOCK “SF Series” funnels allow for safer disposal of pourable laboratory waste. A locking, hinged lid minimizes leaks and spills when the funnel is closed. If used in tandem with other Vaplock products, such as a manifold and exhaust filter, a closed system may be maintained for passive wastes while the funnel is sealed.

Justrite Centura containers are available with two quick disconnect materials, Polypropylene (with EPDM o-ring) and Stainless Steel (with PTFE o-ring), select a safety funnel according to the type of disconnect material present on the safety container. SF-series funnels are constructed of high density Polyethylene (HDPE) and Polypropylene, with a Viton® sealing gasket. As with all solvent applications, chemical compatibility of the solvent and product should be noted prior to purchase.

**Safety Funnels**

<table>
<thead>
<tr>
<th>Part #</th>
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<tbody>
<tr>
<td>SF-003</td>
<td>WITH POLYPROPYLENE DISCONNECT AND EPDM O-RING</td>
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<td>SF-010</td>
<td>NO QUICK DISCONNECT, WITH 1/2&quot; NPT MALE THREAD</td>
</tr>
</tbody>
</table>
SOLVENT CAPS and MANIFOLDS

GL25
GL32
GL38
38mm
GL45
DIN45
DIN50
51mm
53B
DIN60
63mm
70mm
GL80
100mm
83B
...

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