

Closed Systems

for laboratory solvents



Solvent Extraction



Closed Systems

Safer solvent extraction and waste collection in laboratory instruments

- Minimize exposure**
to harmful solvent fumes and vapors
- Capture solvent waste**
securely, without leaks or drips, without foil or lab film
- Reduce evaporation**
of expensive chemical reagents

Emissions Control

Waste Collection

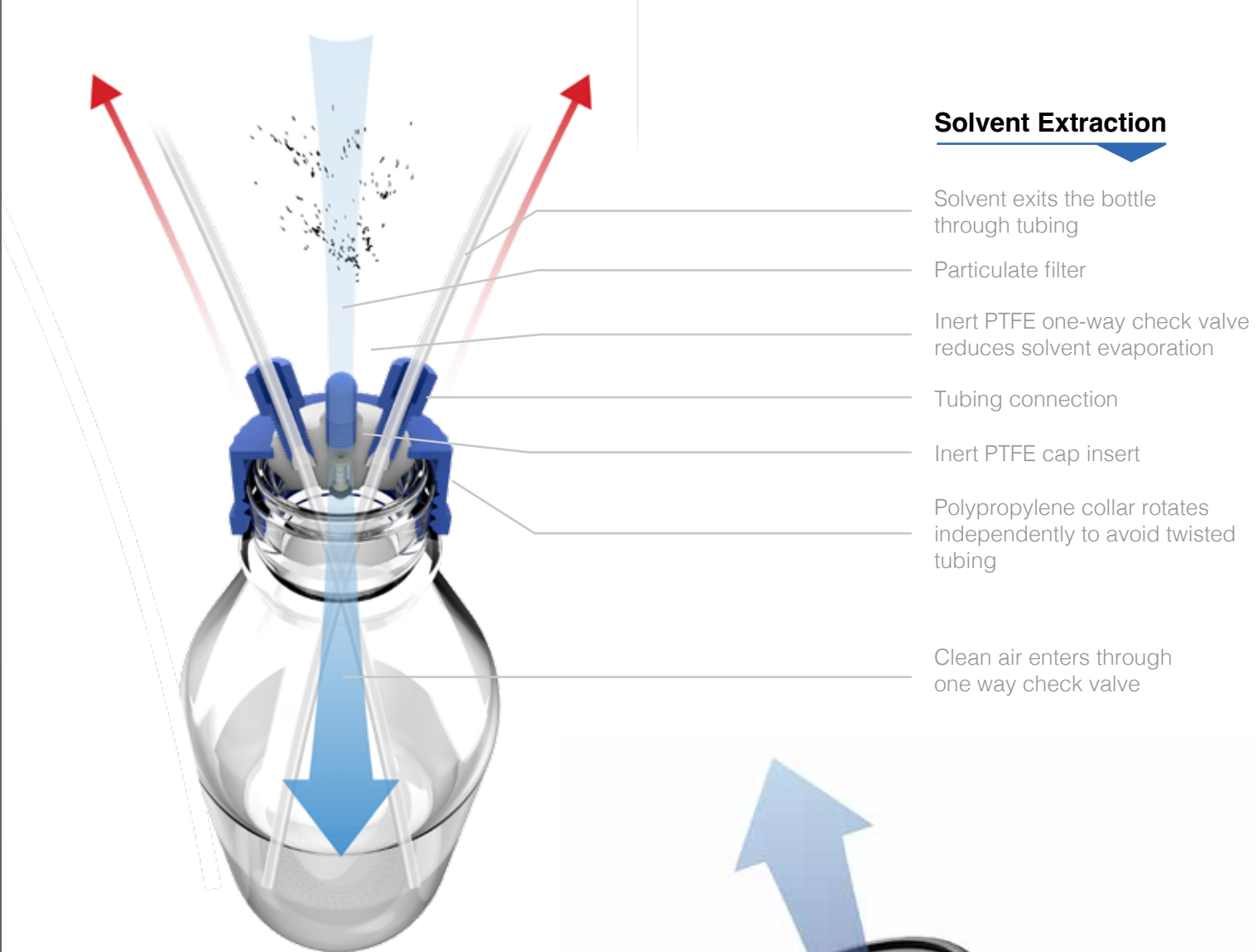


Many lab instruments (such as HPLC, LC-MS, FPLC, ICP, and others) require use of volatile **organic solvents** which can be **health and safety concerns** for those working in proximity to these machines.

Because these are “active” systems — pumping solvent from one reservoir to the instrument and then to waste — a containment solution for both pure reagents and waste effluent must allow for air flow in or out of containers, while **mitigating both evaporation and solvent fumes**.

The products listed here provide a **closed-system solution** to this problem.

Solvent Extraction



Emissions Control



Exhaust Filters

Ultra high surface area activated carbon for HPLC emission reduction

Active Solvent Adsorption

Reduce toxic fumes and noxious odors from HPLC solvent waste by vapor capture onto activated carbon exhaust filters. Each filter includes a button-activated lapse timer to aid in estimating the time in service, and to provide a visual reminder that the product will need replacement (medium filters include a 3-month timer, large filters include a 6-month).

Actual filter longevity depends on a number of factors, such as solvent used and concentration, so for real-time end-of-service-life detection (especially for use with normal phase or more volatile solvents) we offer filters with a chemical-change breakthrough indicator to reveal a color change after exposure to common HPLC organic solvents.

Adaptable Design

Suitable for continuous flow of solvent vapor on analytical or semi-preparative HPLC instruments, the filters may be attached to various point-source emissions by adapting to the 1/4" NPT female port at the receiving end of the filter. Dispose according to local safety codes and regulations.



Lapse Timer measures time from point of activation

At the press of a button, start timer to display time in service and provide a visual reminder for replacement.



Chemical Change Indicator - DS-IN01

For real-time solvent breakthrough indication, use of a chemical-change indicator is recommended.



Part Number	Description	U/M
Medium Filters		
DS-CFM	Exhaust Filter, Medium	Each
DS-CFMV	Exhaust Filter Pack, Medium	5/PK
DS-CFMI	Exhaust Filter w/ Indicator, Medium	Each
DS-CFMIV	Exhaust Filter Pack w/ Indicator, Medium	5/PK
Large Filters		
DS-CFL	Exhaust Filter, Large	Each
DS-CFLI	Exhaust Filter w/ Indicator, Large	Each
Chemical Change Breakthrough Indicators		
DS-IN01	Breakthrough Indicator, Chemical Change	Each
DS-IN01V	Indicator Pack, Chemical Change	5/PK

DS-CFM
Exhaust Filter, Medium



DS-CFL
Exhaust Filter, Large



DS-CFMI
Exhaust Filter w/ Indicator, Medium



DS-CFLI
Exhaust Filter w/ Indicator, Large

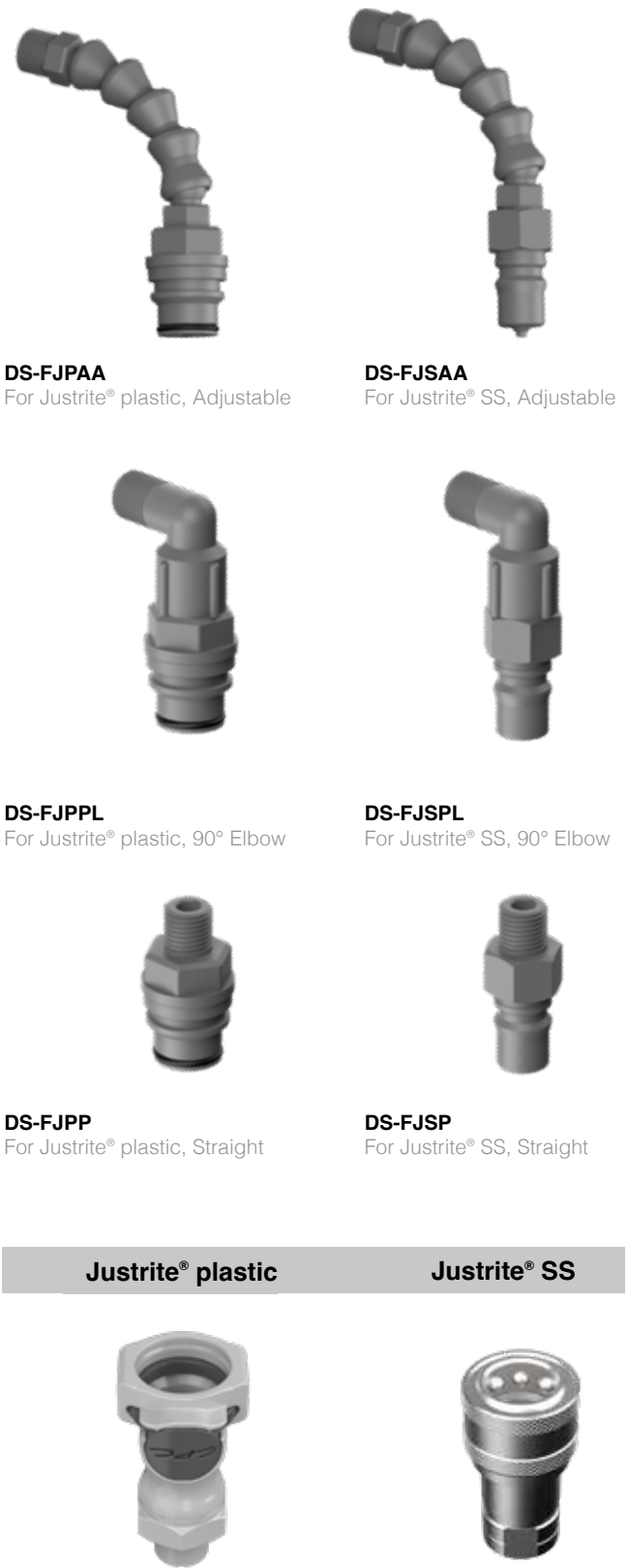


Filter Adapters

Attach to various emission sources

One receiving port, many options

Whether attaching an exhaust filter to a collection manifold or to a quick disconnect on a safety can, select from these adapters based on height limitations above the container.



Part Number	Description	Material
Filter Adapters for Type C Ports – 1/8" NPT		
DS-FACA	Type C x Adjustable	PP/Acetal
DS-FPCL	Type C x 90° Elbow	PP
DS-FPCL45	Type C x 45° Elbow	PP
DS-FPC	Type C x Straight	PP
Filter Adapters for Type D Ports – 1/4" NPT		
DS-FADA	Type D x Adjustable	PP/Acetal
DS-FPDL	Type D x 90° Elbow	PP
DS-FPDL45	Type D x 45° Elbow	PP
DS-FPD	Type D x Straight	PP
Filter Adapters for Type E Ports – 1/2" NPT		
DS-FAEA	Type E x Adjustable	PP/Acetal
DS-FPEL	Type E x 90° Elbow	PP
DS-FPEL45	Type E x 45° Elbow	PP
DS-FPE	Type E x Straight	PP
Filter Adapters for Justrite® Plastic Quick Disconnect		
DS-FJPAA	Plastic quick disconnect, Adjustable	PP/Acetal
DS-FJPPL	Plastic quick disconnect, 90° Elbow	PP
DS-FJPP	Plastic quick disconnect, Straight	PP
Filter Adapters for Justrite® Stainless Steel Quick Disconnect		
DS-FJSAA	SS quick disconnect, Adjustable	PP/Acetal
DS-FJSPL	SS quick disconnect, 90° Elbow	PP
DS-FJSP	SS quick disconnect, Straight	PP

DS-FACA
For Type C port, Adjustable

DS-FADA
For Type D port, Adjustable

DS-FAEA
For Type E port, Adjustable

DS-FPCL
For Type C port, 90° Elbow

DS-FPDL
For Type D port, 90° Elbow

DS-FPEL
For Type E port, 90° Elbow

DS-FPCL45
For Type C port, 45° Elbow

DS-FPDL45
For Type D port, 45° Elbow

DS-FPEL45
For Type E port, 45° Elbow

DS-FPC
For Type C port, Straight

DS-FPD
For Type D port, Straight

DS-FPE
For Type E port, Straight

Port Thread Sizes

C
1/8" NPT

D
1/4" NPT

E
1/2" NPT

38-400 shallow thread

For Wako® and Cubitainer® 38mm bottles



Container Type and Thread Size

A close cousin to the taller 38-430 finish, outside of laboratory circles the 38-400 thread is perhaps far more ubiquitous - appearing on household containers from dairy products to spice jars. In the lab, this thread is found on name brand bottles such as Wako® Chemicals - in both glass and plastic versions - and Cubitainer®, which offers many packaging options including collapsible containers and “boxed bottles” for easy shipment of liquids.

Although similar in appearance to the Nalgene® 38-415 thread, the two are not compatible.



Waste Collection

Type C Port x4

Type A Port x3

DS-38WP7M / DS-38WX7M
7-Port Size M

Type D Port x4

DS-38WP4L
4-Port Size L

Type D Port x4

Type A Port x6

DS-38WP10L
10-Port Size L

Type D Port x5

Type E Port x1

DS-38WP6XL
6-Port Size XL

Part Number	Description	# of Ports
Manifolds for 38-400		
DS-38WP7M	7-Port, Size M, Polypropylene	3A, 4C
DS-38WX7M	7-Port, Size M, PTFE	3A, 4C
DS-38WP4L	4-Port, Size L, Polypropylene	4D
DS-38WP10L	10-Port, Size L, Polypropylene	6A, 4D
DS-38WP6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for 38-400		
DS-K38WP-A	Waste Kit Basic	6A, 4D
DS-K38WP-B	Waste Kit Plus	6A, 4D

Waste Collection

DS-K38WP-A
Basic Waste Kit

DS-K38WP-B
Plus Waste Kit

Basic Kit Contents

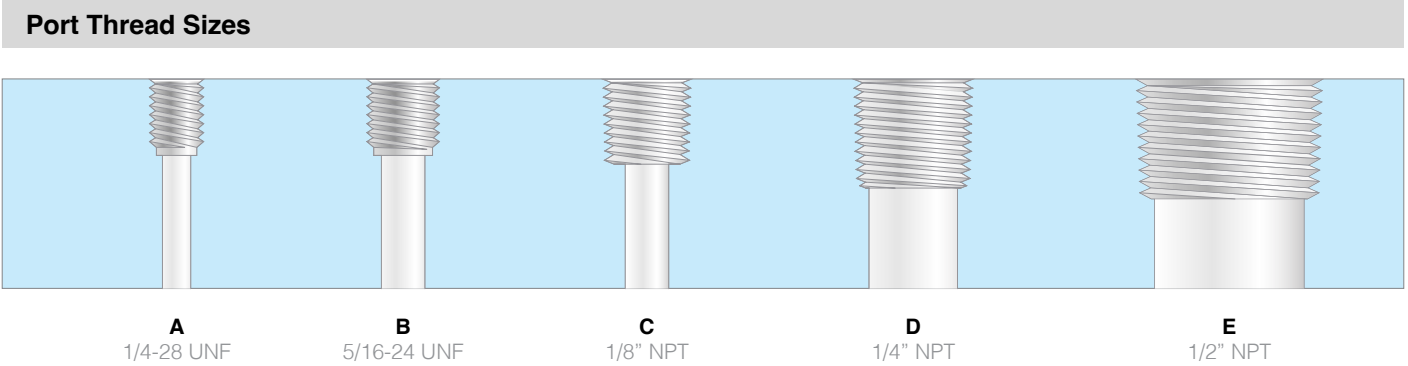
The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

The fittings kit includes:

- (6) PTFE Type A port plugs
- (3) PP Type D port plugs
- (1) Barbed 1/4" Y-connector
- (1) 3/8" ID barbed adapter
- (3) 1/4" ID barbed adapters
- (1) 3/16" ID barbed adapter
- (1) 1/8" ID barbed adapter
- (2) 1/16" OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.



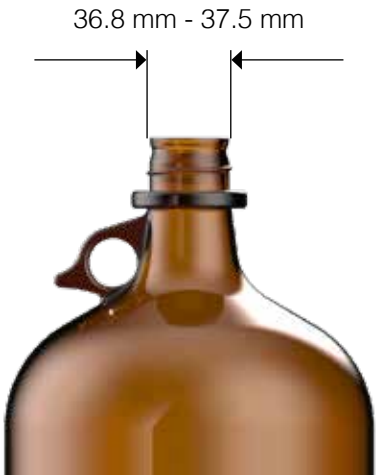
GL 38

For 38-430 glass threaded bottles



Container Type and Thread Size

The 4-liter amber glass bottle with distinctive finger grip is as common in most labs as Parafilm® and pipettes. Used by many chemical manufacturers as the containment vessel of choice for solvents, these bottles are (thankfully) supplied with a more-or-less standardized finish: the “GL38” 38-430 glass thread. Although compatible with 38-430 caps used on some plastic bottles - such as Nalgene - it’s important to note that the GL38 caps supplied here are not deep enough to engage and seal on many plastic 38-430 bottles.



Waste Collection

Type C Port x4
Type A Port x3

Type D Port x4

Type D Port x4
Type A Port x6

Type D Port x5
Type E Port x1

DS-38P7M / DS-38X7M
7-Port Size M

DS-38P4L
4-Port Size L

DS-38P10L
10-Port Size L

DS-38P6XL
6-Port Size XL

Part Number	Description	# of Ports
Manifolds for GL 38		
DS-38P7M	7-Port, Size M, Polypropylene	3A, 4C
DS-38X7M	7-Port, Size M, PTFE	3A, 4C
DS-38P4L	4-Port, Size L, Polypropylene	4D
DS-38P10L	10-Port, Size L, Polypropylene	6A, 4D
DS-38P6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for GL 38		
DS-K38P-A	Waste Kit Basic	6A, 4D
DS-K38P-B	Waste Kit Plus	6A, 4D

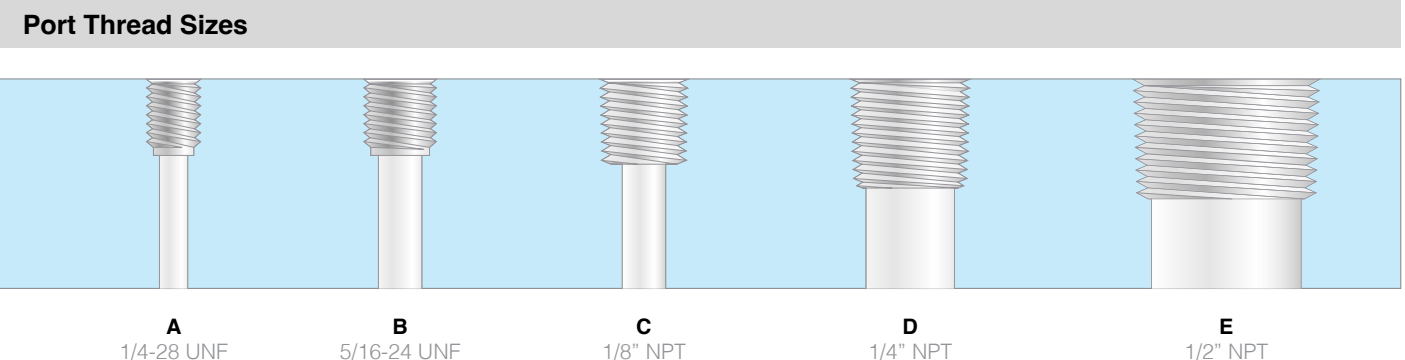
DS-K38P-A
Basic Waste Kit

DS-K38P-B
Plus Waste Kit

- Basic Kit Contents**
- The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.
- The fittings kit includes:
- (6) PTFE Type A port plugs
 - (3) PP Type D port plugs
 - (1) Barbed 1/4" Y-connector
 - (3) 3/8" ID barbed adapter
 - (3) 1/4" ID barbed adapters
 - (1) 3/16" ID barbed adapter
 - (1) 1/8" ID barbed adapter
 - (2) 1/16" OD tube fittings
 - (2) 2.2mm OD tube fittings
 - (1) 2.5mm OD tube fitting
 - (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.



38-430 plastic thread

For Nalgene® and similar plastic bottles



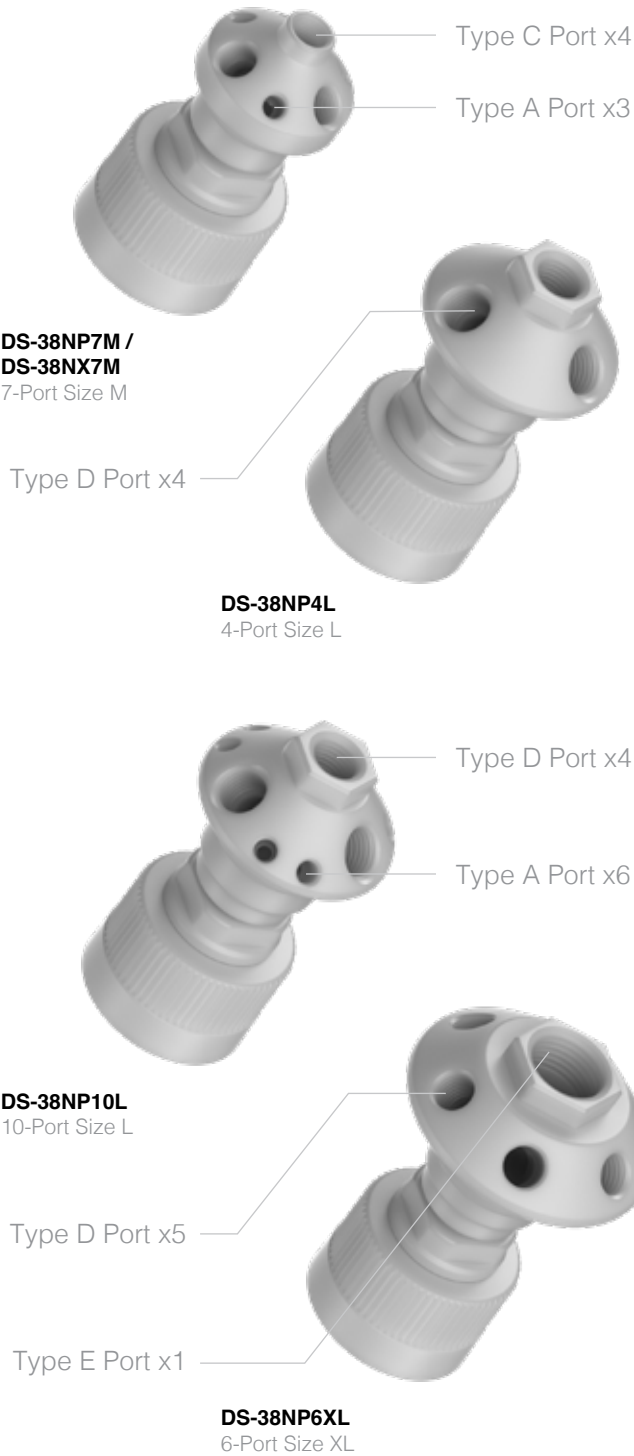
Container Type and Thread Size

In most regards the 38-430 plastic bottle thread is identical to the GL38 glass version, with the noted difference that a small shoulder has been introduced to the mouth of the plastic bottle which raises the required depth of the cap. This inconvenient change means that the GL38 safety caps offered in the previous pages are too shallow to engage and seal on a plastic 38-430 threaded bottle.

In our experience, the most common 38-430 plastic bottles are from the Nalgene® brand, although several other manufacturers make bottles with similar finishes which seem to follow the same standard.

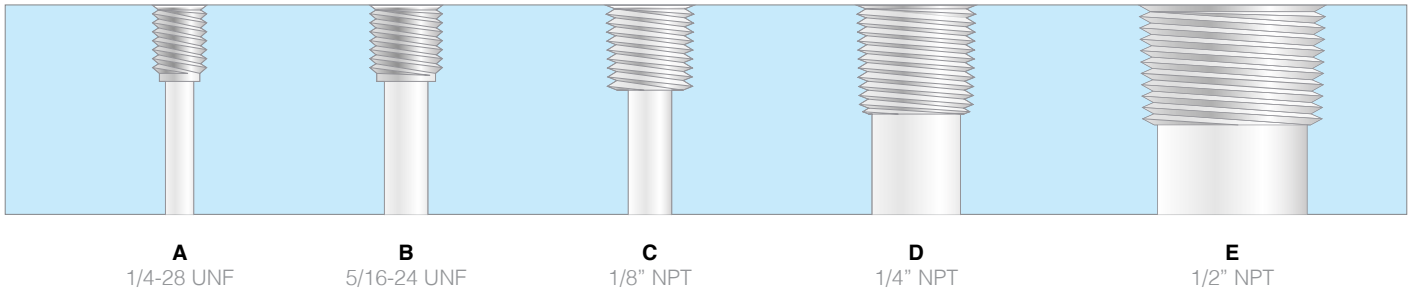


Waste Collection



Part Number	Description	# of Ports
Manifolds for 38-430 Nalgene		
DS-38NP7M	7-Port, Size M, Polypropylene	3A, 4C
DS-38NX7M	7-Port, Size M, PTFE	3A, 4C
DS-38NP4L	4-Port, Size L, Polypropylene	4D
DS-38NP10L	10-Port, Size L, Polypropylene	6A, 4D
DS-38NP6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for 38-430 Nalgene		
DS-K38NP-A	Waste Kit Basic	6A, 4D
DS-K38NP-B	Waste Kit Plus	6A, 4D

Port Thread Sizes



Basic Kit Contents

The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

The fittings kit includes:

- (6) PTFE Type A port plugs
- (3) PP Type D port plugs
- (1) Barbed 1/4" Y-connector
- (3) 3/8" ID barbed adapter
- (3) 1/4" ID barbed adapters
- (1) 3/16" ID barbed adapter
- (1) 1/8" ID barbed adapter
- (2) 1/16" OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

GL 45

For 45mm threaded glass bottles



Container Type and Thread Size

First introduced by laboratory glassware manufacturers such as Duran® and Kontes®, the GL45-threaded borosilicate glass bottle (“GL” means “glass,” and “45” is the diameter in mm) is a common sight in most labs and is the standard for containment and storage for pure and mixed reagents.



Waste Collection

Type C Port x4

Type A Port x3

DS-45P7M / DS-45X7M
7-Port Size M

Type D Port x4

DS-45P4L
4-Port Size L

Type D Port x4

Type A Port x6

DS-45P10L
10-Port Size L

Type D Port x5

Type E Port x1

DS-45P6XL
6-Port Size XL

Part Number	Description	# of Ports
Manifolds for GL 45		
DS-45P7M	7-Port, Size M, Polypropylene	3A, 4C
DS-45X7M	7-Port, Size M, PTFE	3A, 4C
DS-45P4L	4-Port, Size L, Polypropylene	4D
DS-45P10L	10-Port, Size L, Polypropylene	6A, 4D
DS-45P6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for GL 45		
DS-K45P-A	Waste Kit Basic	6A, 4D
DS-K45P-B	Waste Kit Plus	6A, 4D

DS-K45P-A
Basic Waste Kit

DS-K45P-B
Plus Waste Kit

Basic Kit Contents

The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

The fittings kit includes:

- (6) PTFE Type A port plugs
- (3) PP Type D port plugs
- (1) Barbed 1/4" Y-connector
- (1) 3/8" ID barbed adapter
- (3) 1/4" ID barbed adapters
- (1) 3/16" ID barbed adapter
- (1) 1/8" ID barbed adapter
- (2) 1/16" OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

Port Thread Sizes

A 1/4-28 UNF

B 5/16-24 UNF

C 1/8" NPT

D 1/4" NPT

E 1/2" NPT

DIN 45

For 45mm DIN standard jerricans



Container Type and Thread Size

The DIN 45 thread, derived by the Deutsches Institute for Normung e.V. ("DIN") - the German Institute for Standardization), is a 45mm standardized thread more commonly found on jerricans and carboys in EU member states and Asia.

A quirk of the DIN 45 thread is that a GL45 cap will usually fit onto it, although the GL45 cap is usually too deep to seal properly. By removing a bit of height from a GL45 cap, it's possible to use a GL45 on DIN 45 - one advantage being the many color options available in GL45. However, the converse does not work: DIN 45 caps won't typically fit a GL45 bottle.



Waste Collection

Type C Port x4
Type A Port x3

DS-45DP7M / DS-45DX7M
7-Port Size M

Type D Port x4

DS-45DP4L
4-Port Size L

Type D Port x4
Type A Port x6

DS-45DP10L
10-Port Size L

Type D Port x5
Type E Port x1

DS-45DP6XL
6-Port Size XL

Part Number	Description	# of Ports
Manifolds for DIN 45		
DS-45DP7M	7-Port, Size M, Polypropylene	3A, 4C
DS-45DX7M	7-Port, Size M, PTFE	3A, 4C
DS-45DP4L	4-Port, Size L, Polypropylene	4D
DS-45DP10L	10-Port, Size L, Polypropylene	6A, 4D
DS-45DP6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for DIN 45		
DS-K45DP-A	Waste Kit Basic	6A, 4D
DS-K45DP-B	Waste Kit Plus	6A, 4D

DS-K45DP-A
Basic Waste Kit

DS-K45DP-B
Plus Waste Kit

Basic Kit Contents

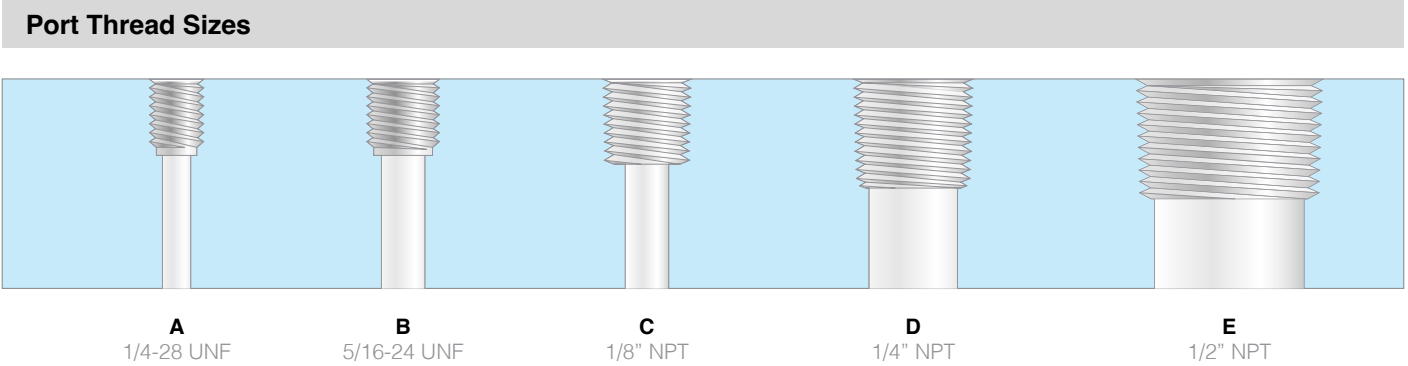
The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

The fittings kit includes:

- (6) PTFE Type A port plugs
- (3) PP Type D port plugs
- (1) Barbed 1/4" Y-connector
- (1) 3/8" ID barbed adapter
- (3) 1/4" ID barbed adapters
- (1) 3/16" ID barbed adapter
- (1) 1/8" ID barbed adapter
- (2) 1/16" OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

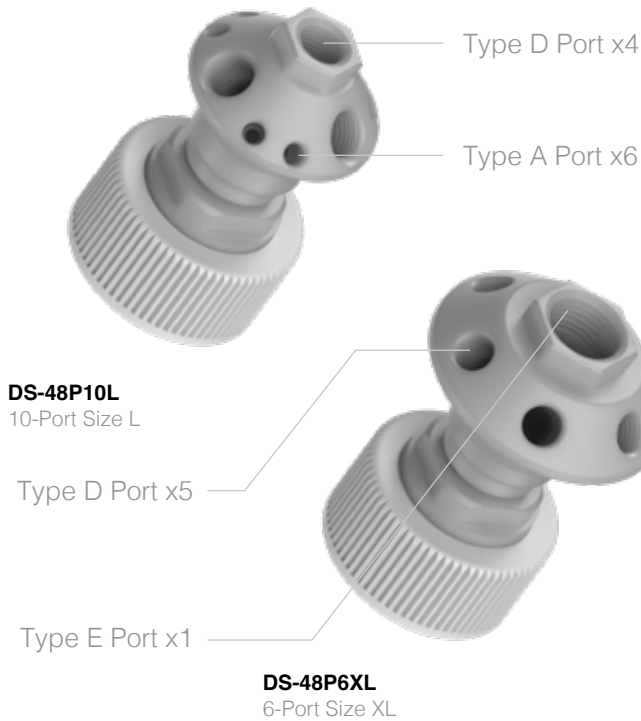
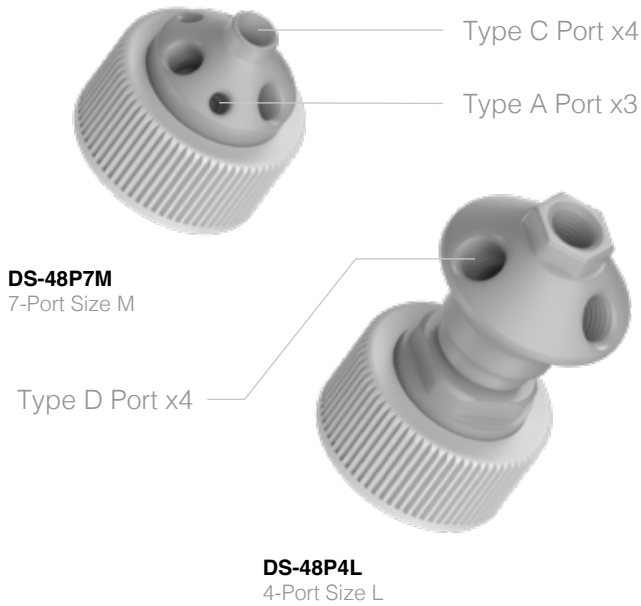


48mm Biotainer

For 48mm Thermo Biotainer bottles

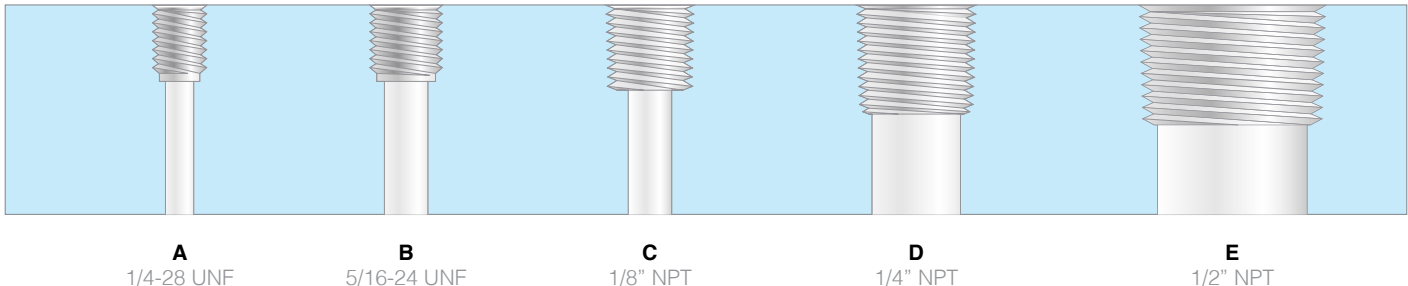


Waste Collection



Part Number	Description	# of Ports
Manifolds for 48mm Biotainer		
DS-48P7M	7-Port, Size M, Polypropylene	3A, 4C
DS-48X7M	7-Port, Size M, PTFE	3A, 4C
DS-48P4L	4-Port, Size L, Polypropylene	4D
DS-48P10L	10-Port, Size L, Polypropylene	6A, 4D
DS-48P6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for 48mm Biotainer		
DS-K48P-A	Waste Kit Basic	6A, 4D
DS-K48P-B	Waste Kit Plus	6A, 4D

Port Thread Sizes



Basic Kit Contents

The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

The fittings kit includes:

- (6) PTFE Type A port plugs
- (3) PP Type D port plugs
- (1) Barbed 1/4" Y-connector
- (1) 3/8" ID barbed adapter
- (3) 1/4" ID barbed adapters
- (1) 3/16" ID barbed adapter
- (1) 1/8" ID barbed adapter
- (2) 1/16" OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8" OD tube fittings

Plus Kit Contents

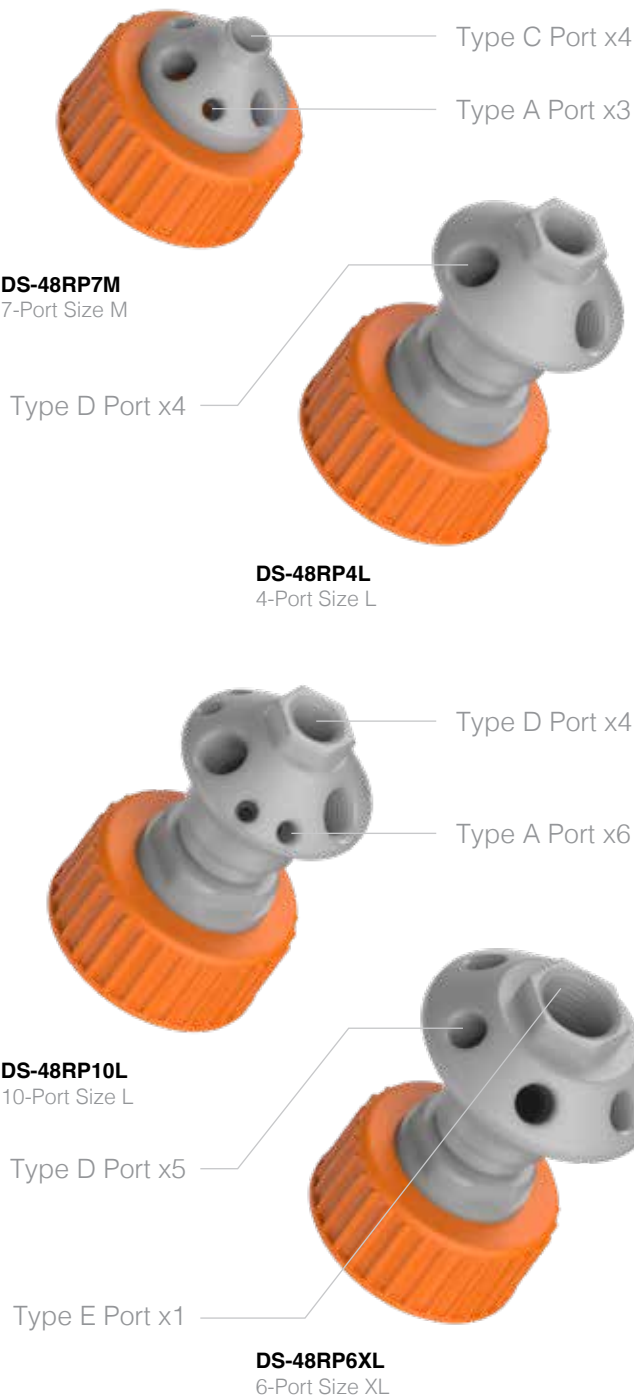
The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

48mm Roller

For 48mm Corning “roller” bottles

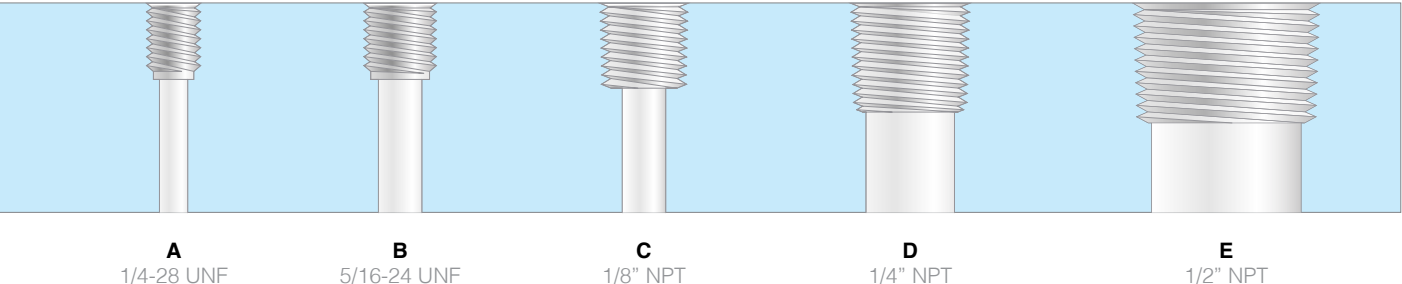


Waste Collection



Part Number	Description	# of Ports
Manifolds for Corning Roller Bottle		
DS-48RP7M	7-Port, Size M, Polypropylene	3A, 4C
DS-48RX7M	7-Port, Size M, PTFE	3A, 4C
DS-48RP4L	4-Port, Size L, Polypropylene	4D
DS-48RP10L	10-Port, Size L, Polypropylene	6A, 4D
DS-48RP6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for Corning Roller Bottle		
DS-K48RP-A	Waste Kit Basic	6A, 4D
DS-K48RP-B	Waste Kit Plus	6A, 4D

Port Thread Sizes



DS-K45DP-A
Basic Waste Kit

DS-K45DP-B
Plus Waste Kit

Basic Kit Contents

The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

The fittings kit includes:

- (6) PTFE Type A port plugs
- (3) PP Type D port plugs
- (1) Barbed 1/4" Y-connector
- (1) 3/8" ID barbed adapter
- (3) 1/4" ID barbed adapters
- (1) 3/16" ID barbed adapter
- (1) 1/8" ID barbed adapter
- (2) 1/16" OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

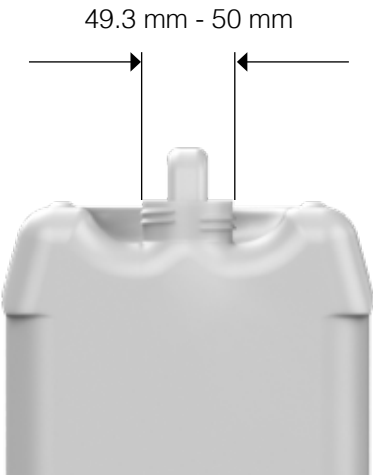
DIN 50

For 50mm DIN standard jerricans



Container Type and Thread Size

The DIN 50 thread, derived by the Deutsches Institute for Normung e.V. ("DIN") - the German Institute for Standardization), is a 50mm standardized thread more commonly found on jerricans and carboys in EU member states and Asia.



Waste Collection

Type C Port x4

Type A Port x3

DS-50DP7M / DS-50DX7M
7-Port Size M

Type D Port x4

DS-50DP4L
4-Port Size L

Type D Port x4

Type A Port x6

DS-50DP10L
10-Port Size L

Type D Port x5

Type E Port x1

DS-50DP6XL
6-Port Size XL

Part Number	Description	# of Ports
Manifolds for DIN 50		
DS-50DP7M	7-Port, Size M, Polypropylene	3A, 4C
DS-50DX7M	7-Port, Size M, PTFE	3A, 4C
DS-50DP4L	4-Port, Size L, Polypropylene	4D
DS-50DP10L	10-Port, Size L, Polypropylene	6A, 4D
DS-50DP6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for DIN 50		
DS-K50DP-A	Waste Kit Basic	6A, 4D
DS-K50DP-B	Waste Kit Plus	6A, 4D

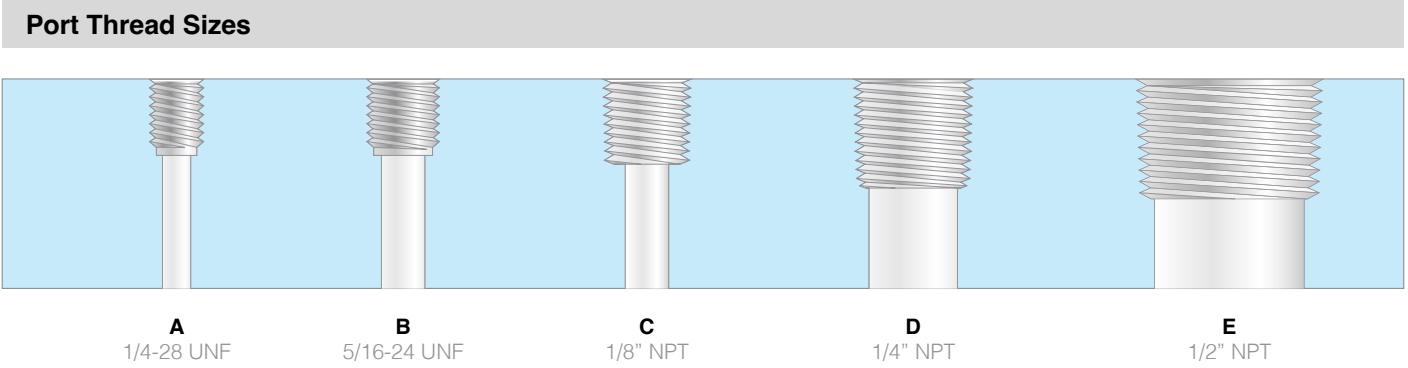
DS-K50DP-A
Basic Waste Kit

DS-K50DP-B
Plus Waste Kit

- Basic Kit Contents**
- The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.
- The fittings kit includes:
- (6) PTFE Type A port plugs
 - (3) PP Type D port plugs
 - (1) Barbed 1/4" Y-connector
 - (1) 3/8" ID barbed adapter
 - (3) 1/4" ID barbed adapters
 - (1) 3/16" ID barbed adapter
 - (1) 1/8" ID barbed adapter
 - (2) 1/16" OD tube fittings
 - (2) 2.2mm OD tube fittings
 - (1) 2.5mm OD tube fitting
 - (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.



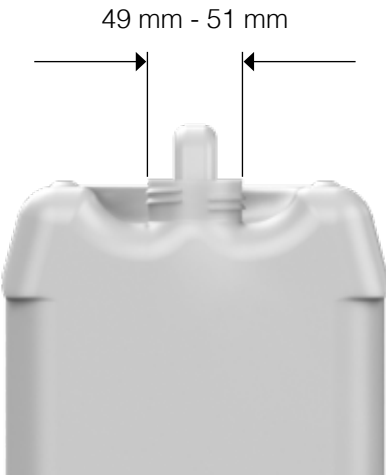
51 mm

For 51mm “tight-head” jerricans



Container Type and Thread Size

A common thread found on many jerricans and “tight-head” blow-molded containers in North America. Many such containers are UN- or DOT-rated for the storage and transportation of hazardous materials.



Waste Collection

Type C Port x4
Type A Port x3

DS-51P7M / DS-51X7M
7-Port Size M

Type D Port x4

DS-51P4L
4-Port Size L

Type D Port x4
Type A Port x6

DS-51P10L
10-Port Size L

Type D Port x5
Type E Port x1

DS-51P6XL
6-Port Size XL

Part Number	Description	# of Ports
Manifolds for 51mm		
DS-51P7M	7-Port, Size M, Polypropylene	3A, 4C
DS-51X7M	7-Port, Size M, PTFE	3A, 4C
DS-51P4L	4-Port, Size L, Polypropylene	4D
DS-51P10L	10-Port, Size L, Polypropylene	6A, 4D
DS-51P6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for 51mm		
DS-K51P-A	Waste Kit Basic	6A, 4D
DS-K51P-B	Waste Kit Plus	6A, 4D

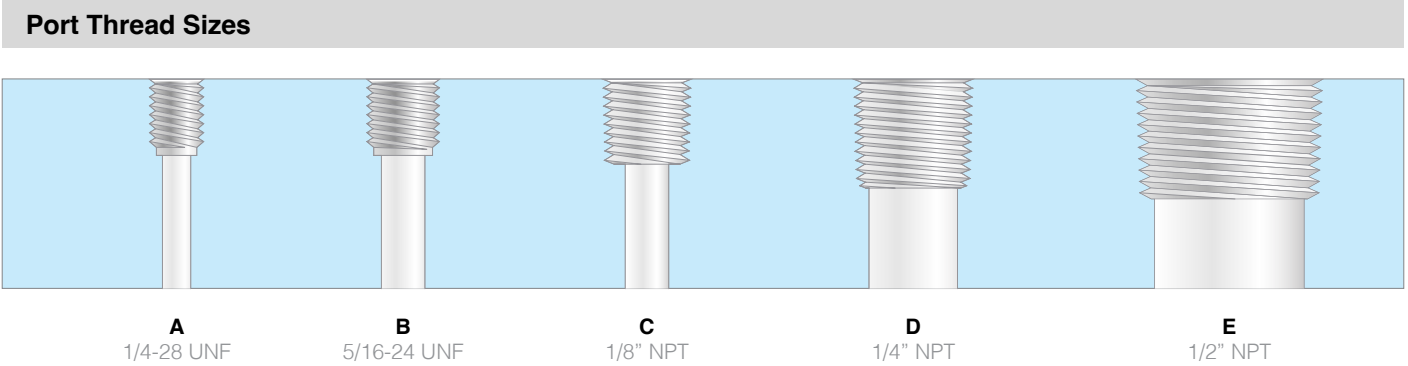
DS-K51P-A
Basic Waste Kit

DS-K51P-B
Plus Waste Kit

- Basic Kit Contents**
- The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.
- The fittings kit includes:
- (6) PTFE Type A port plugs
 - (3) PP Type D port plugs
 - (1) Barbed 1/4" Y-connector
 - (1) 3/8" ID barbed adapter
 - (3) 1/4" ID barbed adapters
 - (1) 3/16" ID barbed adapter
 - (1) 1/8" ID barbed adapter
 - (2) 1/16" OD tube fittings
 - (2) 2.2mm OD tube fittings
 - (1) 2.5mm OD tube fitting
 - (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.



53B

For 53mm “buttress” threads



Container Type and Thread Size

Integrated into many of the flagship storage containers made by Thermo-Fisher Nalgene®, the 53B “buttress” thread has a heavy-duty thread finish - more robust than many ISO or DIN standard threads of similar dimension. For this reason, it is often found on narrow-mouth lab bottles due to its resilience during autoclaving.



Waste Collection

Type C Port x4
Type A Port x3

DS-53P7M / DS-53X7M
7-Port Size M

Type D Port x4

DS-53P4L
4-Port Size L

Type D Port x4
Type A Port x6

DS-53P10L
10-Port Size L

Type D Port x5
Type E Port x1

DS-53P6XL
6-Port Size XL

Part Number	Description	# of Ports
Manifolds for 53B Nalgene		
DS-53P7M	7-Port, Size M, Polypropylene	3A, 4C
DS-53X7M	7-Port, Size M, PTFE	3A, 4C
DS-53P4L	4-Port, Size L, Polypropylene	4D
DS-53P10L	10-Port, Size L, Polypropylene	6A, 4D
DS-53P6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for 53B Nalgene		
DS-K53P-A	Waste Kit Basic	6A, 4D
DS-K53P-B	Waste Kit Plus	6A, 4D

DS-K53P-A
Basic Waste Kit

DS-K53P-B
Plus Waste Kit

Basic Kit Contents

The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

The fittings kit includes:

- (6) PTFE Type A port plugs
- (3) PP Type D port plugs
- (1) Barbed 1/4" Y-connector
- (1) 3/8" ID barbed adapter
- (3) 1/4" ID barbed adapters
- (1) 3/16" ID barbed adapter
- (1) 1/8" ID barbed adapter
- (2) 1/16" OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

Port Thread Sizes

A 1/4-28 UNF **B** 5/16-24 UNF **C** 1/8" NPT **D** 1/4" NPT **E** 1/2" NPT

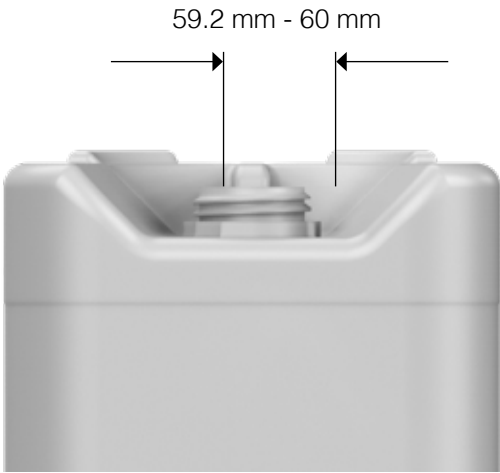
DIN 60

For 60mm DIN standard jerricans



Container Type and Thread Size

The DIN 60 thread, derived by the Deutsches Institute for Normung e.V. ("DIN") - the German Institute for Standardization), is a 60mm standardized thread more commonly found on jerricans and carboys in EU member states and Asia.



Waste Collection

DS-60P4L
4-Port Size L

DS-60P10L
10-Port Size L

Part Number	Description	# of Ports
Manifolds for DIN 60		
DS-60P4L	4-Port, Size L, Polypropylene	4D
DS-60P10L	10-Port, Size L, Polypropylene	6A, 4D
Waste Kits for DIN 60		
DS-K60P-A	Waste Kit Basic	6A, 4D
DS-K60P-B	Waste Kit Plus	6A, 4D

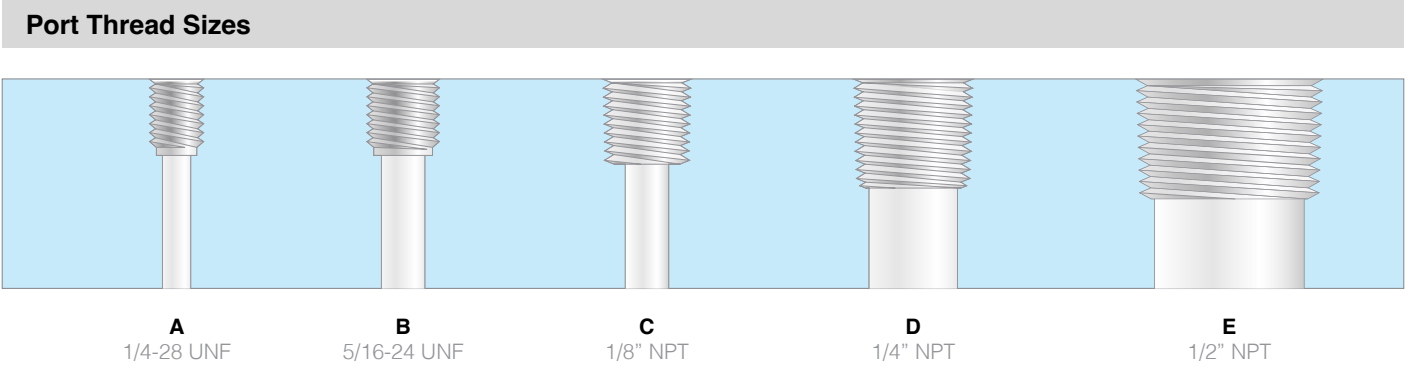
DS-K60P-A
Basic Waste Kit

DS-K60P-B
Plus Waste Kit

- Basic Kit Contents**
- The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.
- The fittings kit includes:
- (6) PTFE Type A port plugs
 - (3) PP Type D port plugs
 - (1) Barbed 1/4" Y-connector
 - (1) 3/8" ID barbed adapter
 - (3) 1/4" ID barbed adapters
 - (1) 3/16" ID barbed adapter
 - (1) 1/8" ID barbed adapter
 - (2) 1/16" OD tube fittings
 - (2) 2.2mm OD tube fittings
 - (1) 2.5mm OD tube fitting
 - (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.



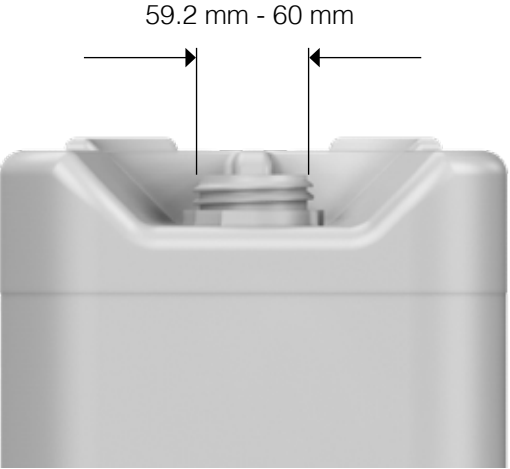
61mm

For 61mm “tight-head” jerricans

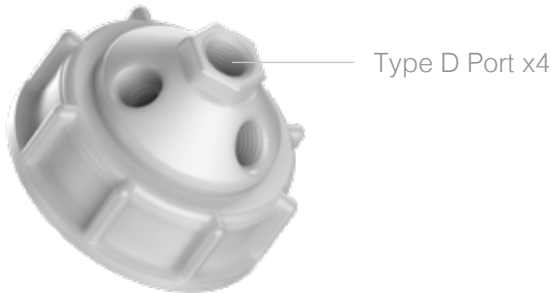


Container Type and Thread Size

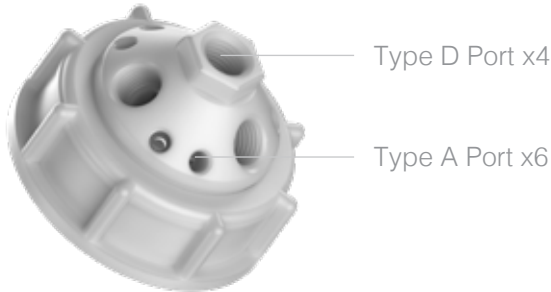
A common thread found on many jerricans and “tight-head” blow-molded containers in North America. Many such containers are UN- or DOT-rated for the storage and transportation of hazardous materials.



Waste Collection



DS-61P4L
4-Port Size L



DS-61P10L
10-Port Size L

Part Number	Description	# of Ports
Manifolds for 61mm		
DS-61P4L	4-Port, Size L, Polypropylene	4D
DS-61P10L	10-Port, Size L, Polypropylene	6A, 4D
Waste Kits for 61mm		
DS-K61P-A	Waste Kit Basic	6A, 4D
DS-K61P-B	Waste Kit Plus	6A, 4D



DS-K61P-A
Basic Waste Kit



DS-K61P-B
Plus Waste Kit

Basic Kit Contents

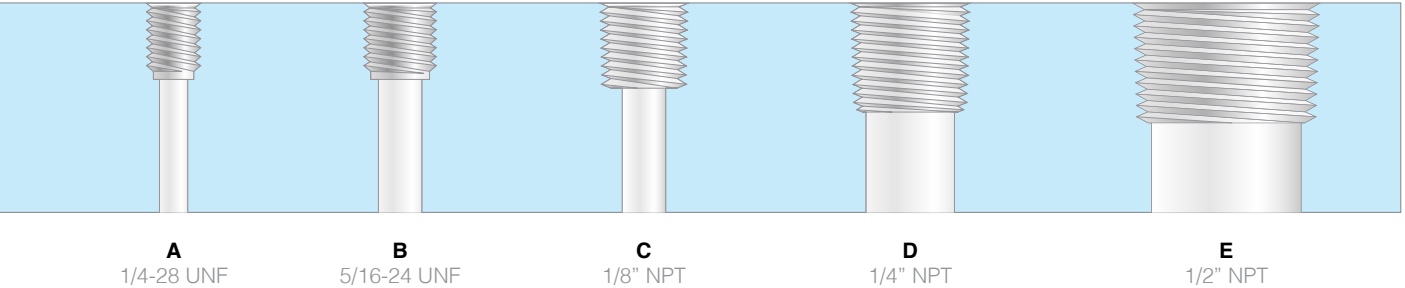
The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

- The fittings kit includes:
- (6) PTFE Type A port plugs
 - (3) PP Type D port plugs
 - (1) Barbed 1/4" Y-connector
 - (1) 3/8" ID barbed adapter
 - (3) 1/4" ID barbed adapters
 - (1) 3/16" ID barbed adapter
 - (1) 1/8" ID barbed adapter
 - (2) 1/16" OD tube fittings
 - (2) 2.2mm OD tube fittings
 - (1) 2.5mm OD tube fitting
 - (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

Port Thread Sizes



63mm

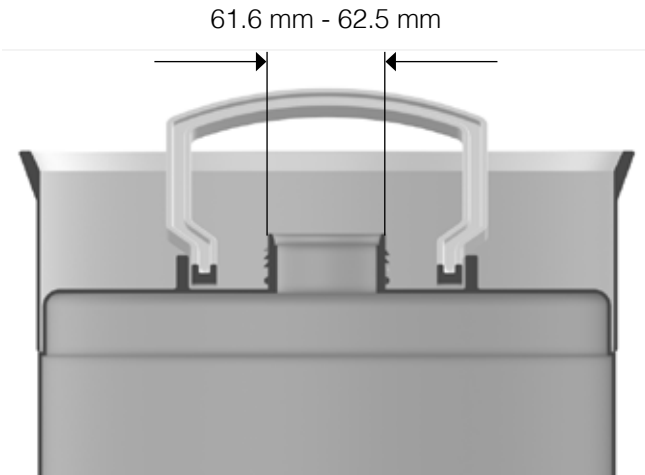
For Rieke® and Nowpak® BIC containers



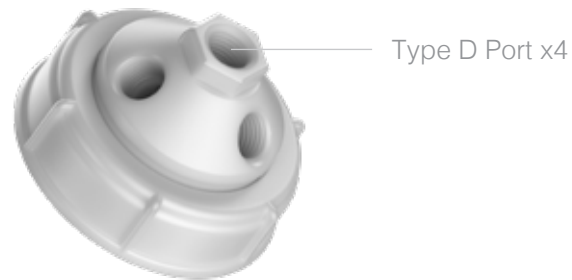
Container Type and Thread Size

There are a host of thread variants in the 63mm diameter, and unfortunately most are incompatible with the others. This more common version utilizes the Rieke® 63mm threaded cap (check along the rim of the closure of your 63mm container - often “Rieke®” will be embossed on the top). Interestingly, an identical thread was also integrated into the NowPak® Liner-Based System by Entegris®.

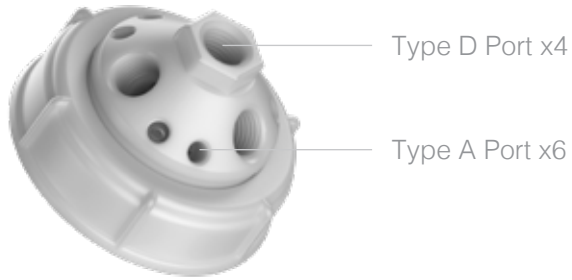
Note that the Nalgene® Lowboy™ 63mm container is a slightly different thread; inquire for solutions.



Waste Collection



DS-63P4L
4-Port Size L



DS-63P10L
10-Port Size L

Part Number	Description	# of Ports
Manifolds for 63mm Rieke / NowPak		
DS-63P4L	4-Port, Size L, Polypropylene	4D
DS-63P10L	10-Port, Size L, Polypropylene	6A, 4D
Waste Kits for 63mm Rieke / NowPak		
DS-K63P-A	Waste Kit Basic	6A, 4D
DS-K63P-B	Waste Kit Plus	6A, 4D



DS-K63P-A
Basic Waste Kit



DS-K63P-B
Plus Waste Kit

Basic Kit Contents

The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

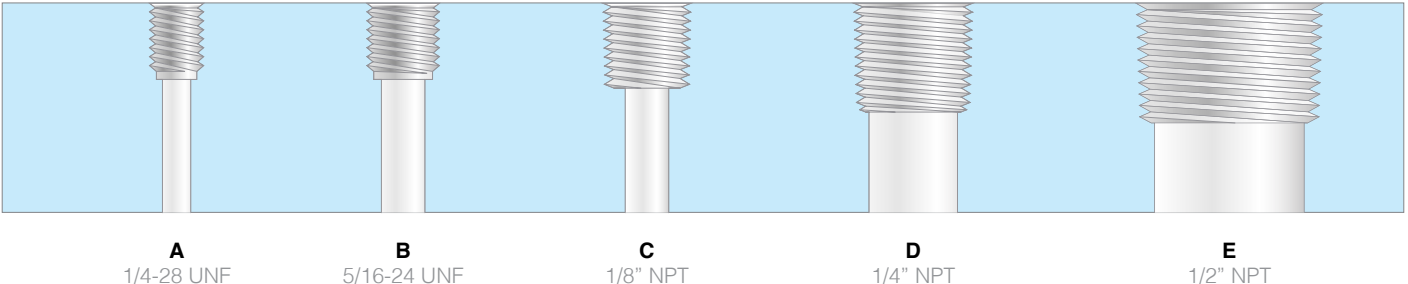
The fittings kit includes:

- (6) PTFE Type A port plugs
- (3) PP Type D port plugs
- (1) Barbed 1/4" Y-connector
- (1) 3/8" ID barbed adapter
- (3) 1/4" ID barbed adapters
- (1) 3/16" ID barbed adapter
- (1) 1/8" ID barbed adapter
- (2) 1/16" OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

Port Thread Sizes



70mm Nalgene®

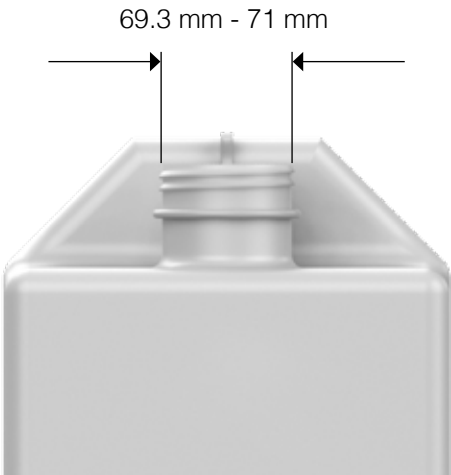
For Nalgene®-brand 70mm carboys



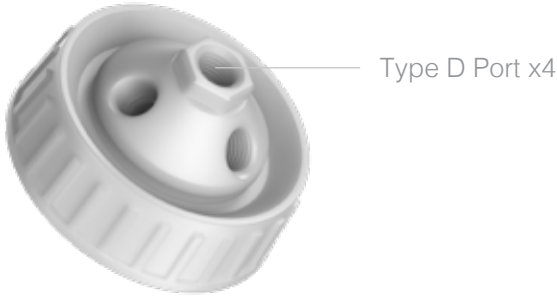
Container Type and Thread Size

Nalgene manufactures a heavy-duty rectangular carboy version with a 70mm buttress thread.

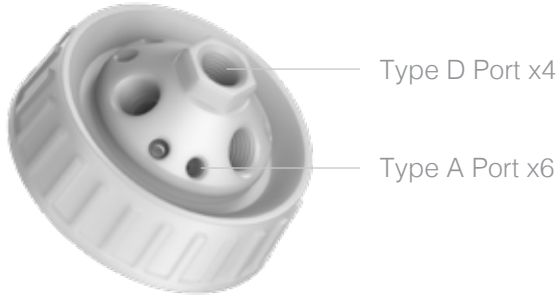
This same thread is also found on Nalgene®-brand laboratory mason jars, where the neck is intended to fit various blenders such as Osterizer™, as well as other fixtures and closures with Mason jar threads.



Waste Collection



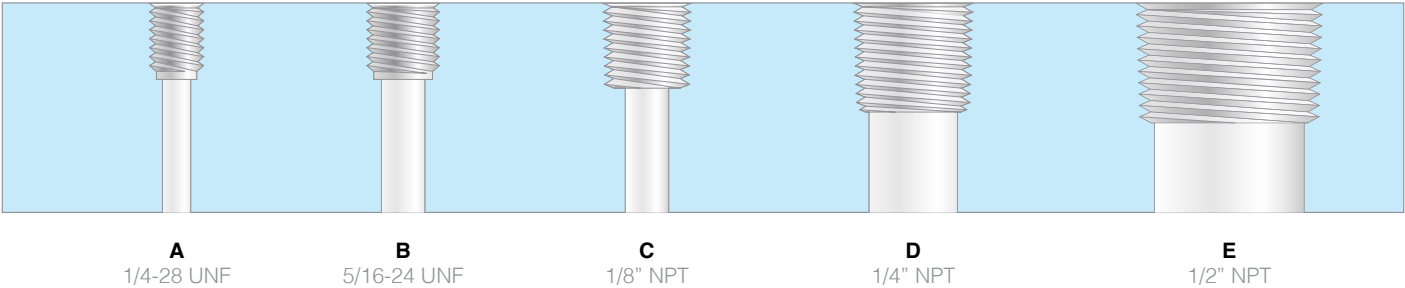
DS-70NP4L
4-Port Size L



DS-70NP10L
10-Port Size L

Part Number	Description	# of Ports
Manifolds for 70mm Nalgene / Mason jar		
DS-70NP4L	4-Port, Size L, Polypropylene	4D
DS-70NP10L	10-Port, Size L, Polypropylene	6A, 4D
Waste Kits for 70mm Nalgene / Mason jar		
DS-K70NP-A	Waste Kit Basic	6A, 4D
DS-K70NP-B	Waste Kit Plus	6A, 4D

Port Thread Sizes



DS-K70NP-A
Basic Waste Kit

DS-K70NP-B
Plus Waste Kit

Basic Kit Contents

The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

- The fittings kit includes:
- (6) PTFE Type A port plugs
 - (3) PP Type D port plugs
 - (1) Barbed 1/4" Y-connector
 - (1) 3/8" ID barbed adapter
 - (3) 1/4" ID barbed adapters
 - (1) 3/16" ID barbed adapter
 - (1) 1/8" ID barbed adapter
 - (2) 1/16" OD tube fittings
 - (2) 2.2mm OD tube fittings
 - (1) 2.5mm OD tube fitting
 - (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

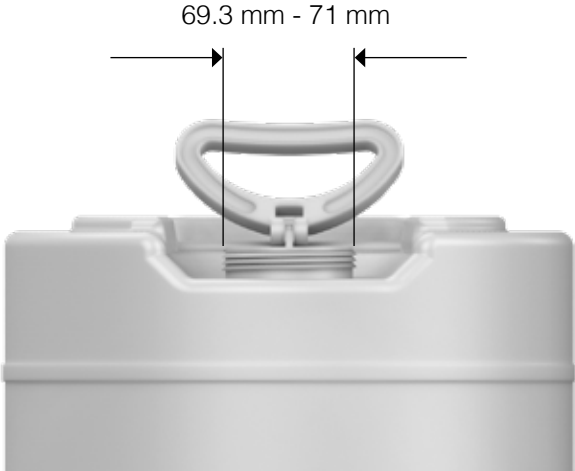
70mm Rieke®

For 6TPI and 8TPI Rieke® threads

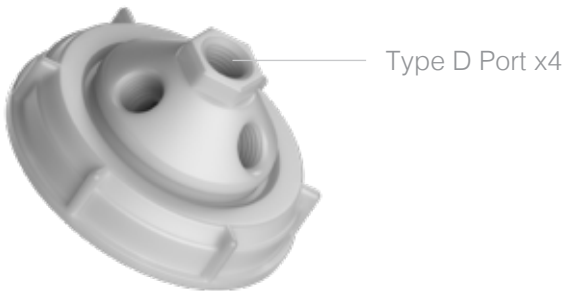


Container Type and Thread Size

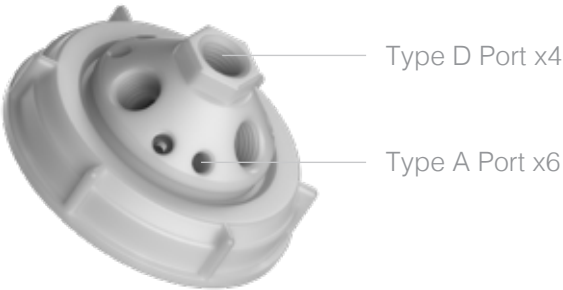
Often preferred in laboratories due to their adherence to UN/DOT standards, these “tight head” containers with a Rieke® 70mm threaded cap are supplied in two different thread variants: a 6TPI and an 8TPI (where TPI stands for “threads per inch”). In some areas, local regulations allow these containers to be shipped directly from the lab to incineration facilities - which can be a significant benefit of using a DOT-type container. Telling the difference between a 6TPI and an 8TPI thread can be tricky, but many Rieke® caps include the TPI number embossed along the rim of the cap. If not, verify with your container supplier or request a sample cap to test fitment.



Waste Collection



DS-70P4L / DS-70AP4L
4-Port Size L, 8TPI / 6TPI



DS-70P10L / DS-70AP10L
10-Port Size L, 8TPI / 6TPI

Part Number	Description	# of Ports
Manifolds for 70mm Rieke		
DS-70P4L	4-Port, Size L, Polypropylene, 8TPI	4D
DS-70AP4L	4-Port, Size L, Polypropylene, 6TPI	4D
DS-70P10L	10-Port, Size L, Polypropylene, 8TPI	6A, 4D
DS-70AP10L	10-Port, Size L, Polypropylene, 6TPI	6A, 4D
Waste Kits for 70mm Rieke		
DS-K70P-A	Waste Kit Basic, 8TPI	6A, 4D
DS-K70P-B	Waste Kit Plus, 8TPI	6A, 4D
DS-K70AP-A	Waste Kit Basic, 6TPI	6A, 4D
DS-K70AP-B	Waste Kit Plus, 6TPI	6A, 4D



DS-K70P-A / DS-K70AP-A
Basic Waste Kit 8TPI / 6TPI



DS-K70P-B / DS-K70AP-B
Plus Waste Kit 8TPI / 6TPI

Basic Kit Contents

The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

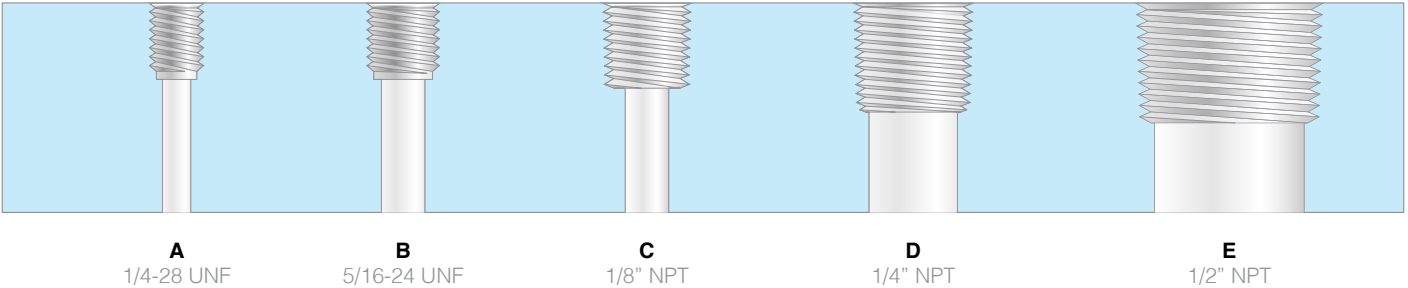
The fittings kit includes:

- (6) PTFE Type A port plugs
- (3) PP Type D port plugs
- (1) Barbed 1/4" Y-connector
- (1) 3/8" ID barbed adapter
- (3) 1/4" ID barbed adapters
- (1) 3/16" ID barbed adapter
- (1) 1/8" ID barbed adapter
- (2) 1/16" OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

Port Thread Sizes



GL 80

For wide-mouth 80mm glass bottles

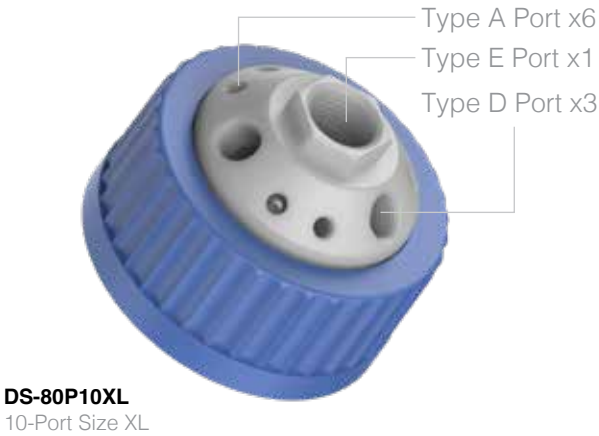


Container Type and Thread Size

Sometimes you just need a glass bottle with a bigger mouth. For those instances, there's the GL80. Offered by such brands as Duran® and Kimble®, the GL80 (or GLS80) is useful for its robust thread on thick-walled borosilicate glass bottles.

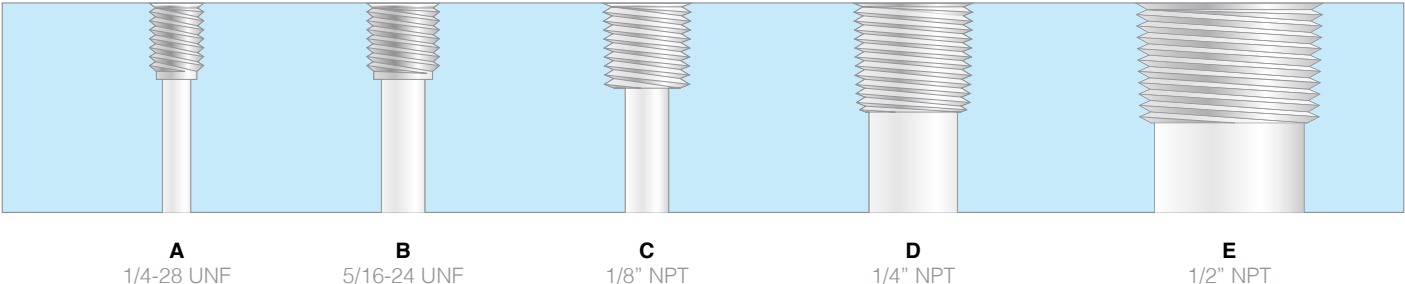


Waste Collection



Part Number	Description	# of Ports
Manifolds for GL 80		
DS-80P4XL	4-Port, Size XL, Polypropylene	3D, 1E
DS-80P10XL	10-Port, Size XL, Polypropylene	6A, 3D, 1E
Waste Kits for GL 80		
DS-K80P-A	Waste Kit Basic	6A, 3D, 1E
DS-K80P-B	Waste Kit Plus	6A, 3D, 1E

Port Thread Sizes



DS-K80P-A
Basic Waste Kit



DS-K80P-B
Plus Waste Kit

Basic Kit Contents

The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

- The fittings kit includes:
- (6) PTFE Type A port plugs
 - (3) PP Type D port plugs
 - (1) Barbed 1/4" Y-connector
 - (1) 3/8" ID barbed adapter
 - (3) 1/4" ID barbed adapters
 - (1) 3/16" ID barbed adapter
 - (1) 1/8" ID barbed adapter
 - (2) 1/16" OD tube fittings
 - (2) 2.2mm OD tube fittings
 - (1) 2.5mm OD tube fitting
 - (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

83B

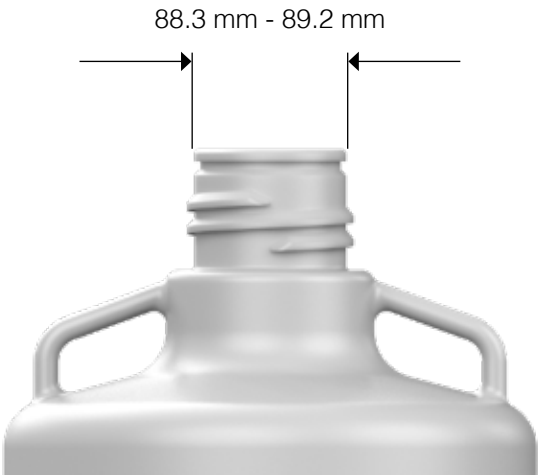
For 83mm “buttress” threads



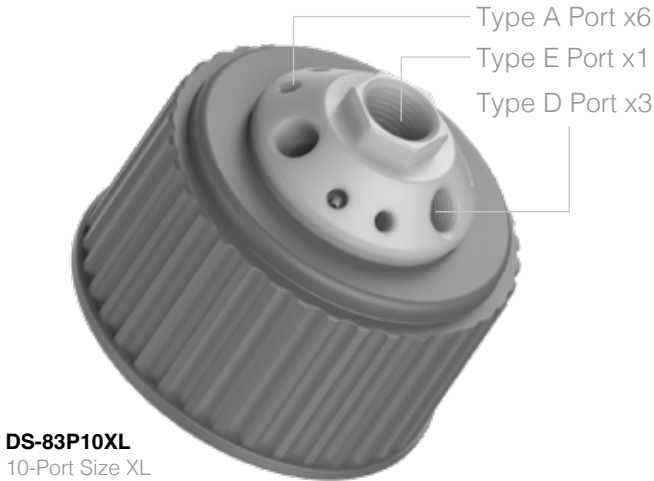
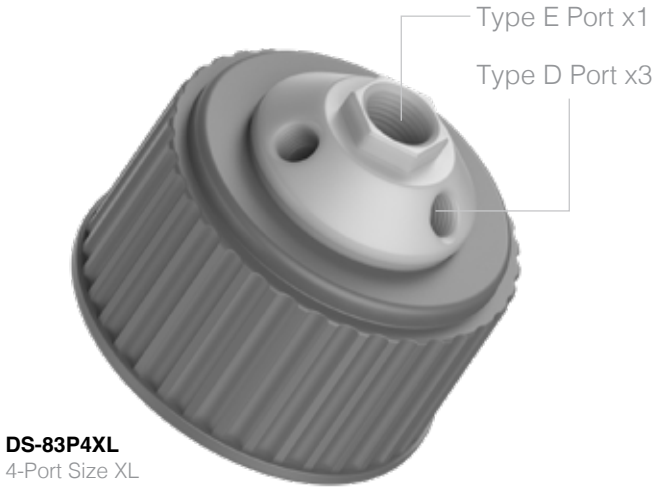
Container Type and Thread Size

Integrated into many of the flagship storage containers made by Thermo-Fisher Nalgene®, the 83B “buttress” thread has a heavy-duty thread finish -- more robust than many ISO or DIN standard threads of similar dimension. For this reason, it is often found on wide-mouth lab bottles due to its resilience during autoclaving.

The 83B caps provided here will also fit Foxx Life Sciences™ and Kautex® brands of the same thread type.



Waste Collection



Part Number	Description	# of Ports
Manifolds for 83B Nalgene		
DS-83P4XL	4-Port, Size XL, Polypropylene	3D, 1E
DS-83P10XL	10-Port, Size XL, Polypropylene	6A, 3D, 1E
Waste Kits 83B Nalgene		
DS-K83P-A	Waste Kit Basic	6A, 3D, 1E
DS-K83P-B	Waste Kit Plus	6A, 3D, 1E



Basic Kit Contents

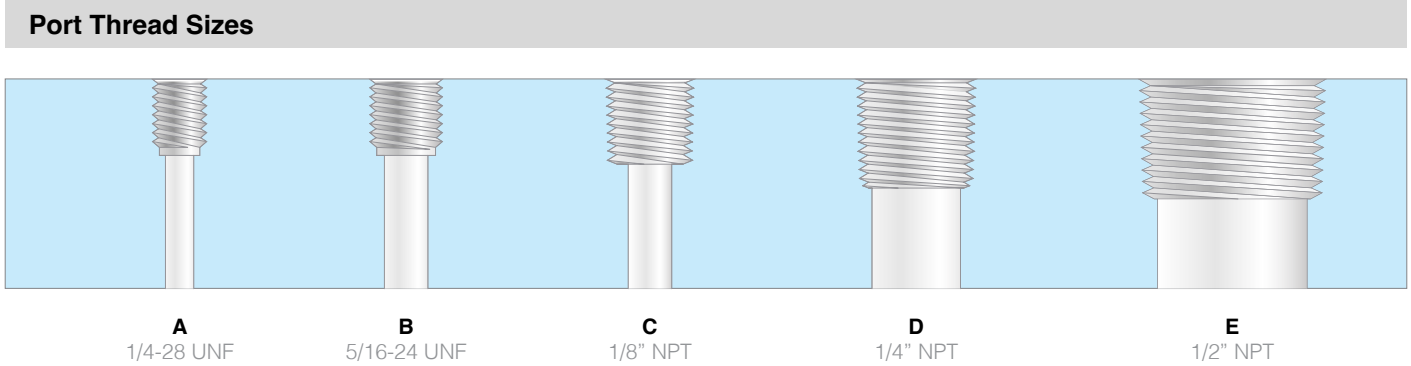
The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

The fittings kit includes:

- (6) PTFE Type A port plugs
- (3) PP Type D port plugs
- (1) Barbed 1/4” Y-connector
- (1) 3/8” ID barbed adapter
- (3) 1/4” ID barbed adapters
- (1) 3/16” ID barbed adapter
- (1) 1/8” ID barbed adapter
- (2) 1/16” OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8” OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.



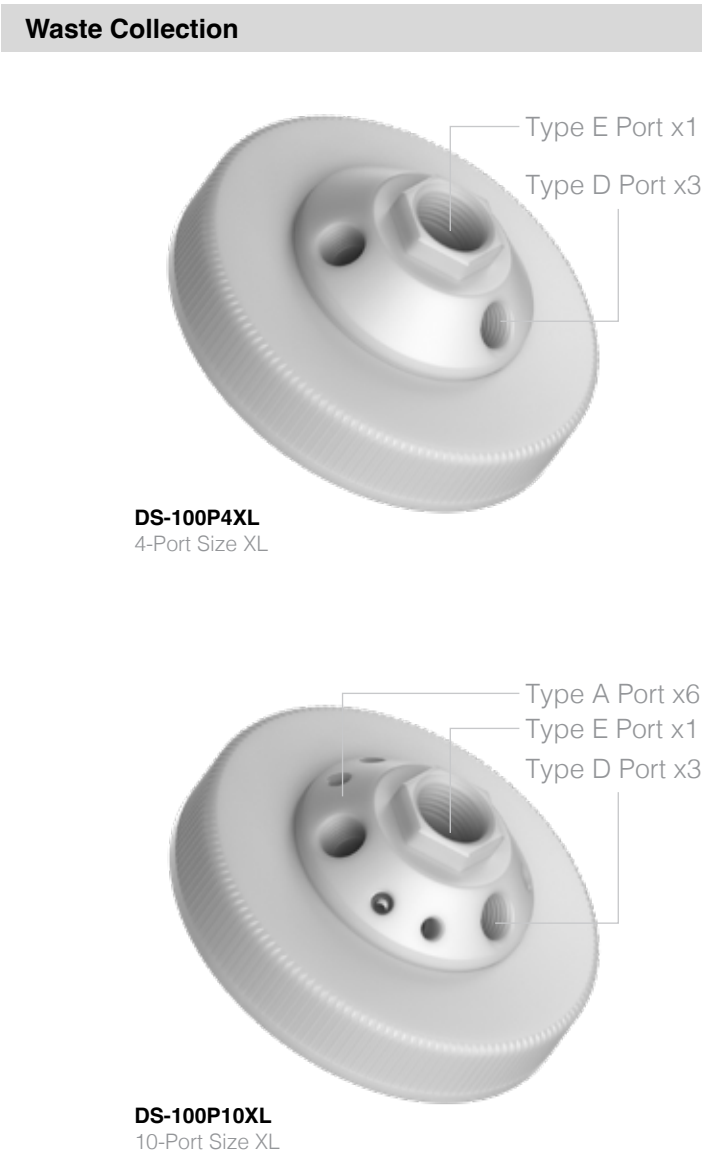
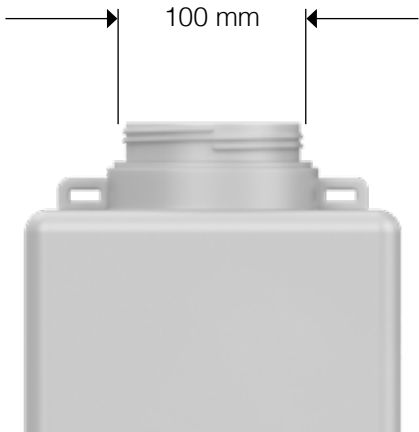
100mm

For 100-415 Nalgene® threads



Container Type and Thread Size

One of the widest thread types in the Nalgene® brand, 100mm (technically a 100-415 finish) threaded containers are found on both large carboys and small plastic storage containers.



Part Number	Description	# of Ports
Manifolds for 100-415 Nalgene		
DS-100P4XL	4-Port, Size XL, Polypropylene	3D, 1E
DS-100P10XL	10-Port, Size XL, Polypropylene	6A, 3D, 1E
Waste Kits for 100-415 Nalgene		
DS-K100P-A	Waste Kit Basic	6A, 3D, 1E
DS-K100P-B	Waste Kit Plus	6A, 3D, 1E



Basic Kit Contents

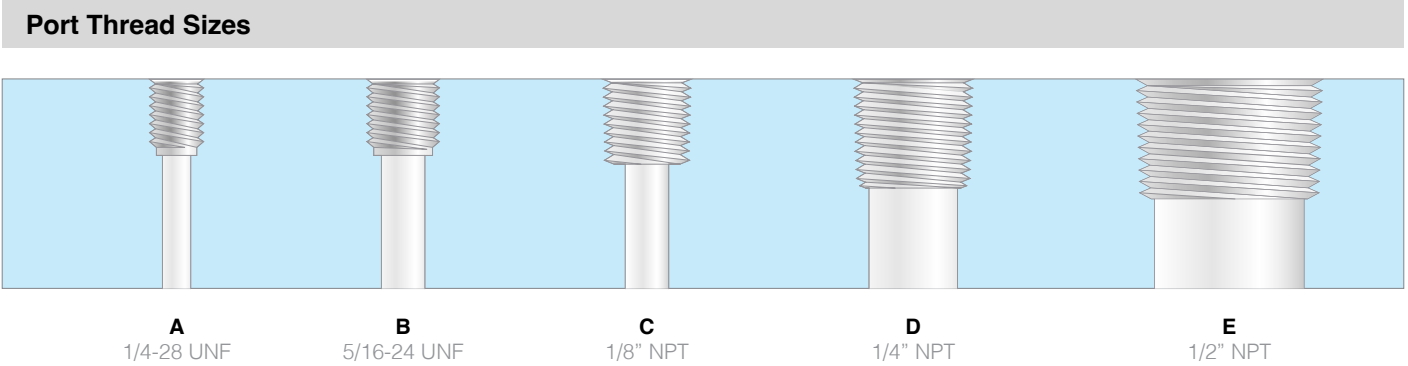
The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

The fittings kit includes:

- (6) PTFE Type A port plugs
- (3) PP Type D port plugs
- (1) Barbed 1/4" Y-connector
- (1) 3/8" ID barbed adapter
- (3) 1/4" ID barbed adapters
- (1) 3/16" ID barbed adapter
- (1) 1/8" ID barbed adapter
- (2) 1/16" OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.



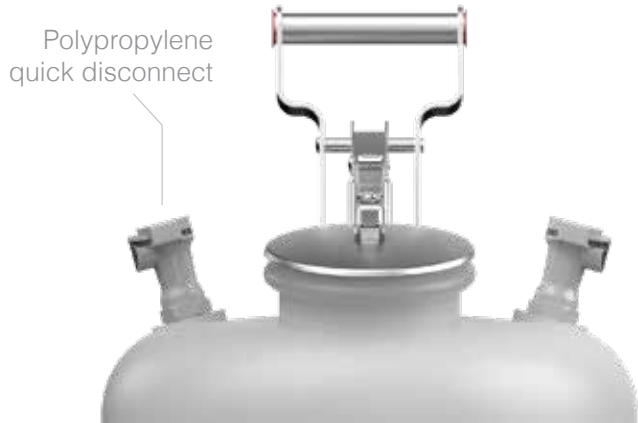
Justrite® Container

With plastic quick disconnects

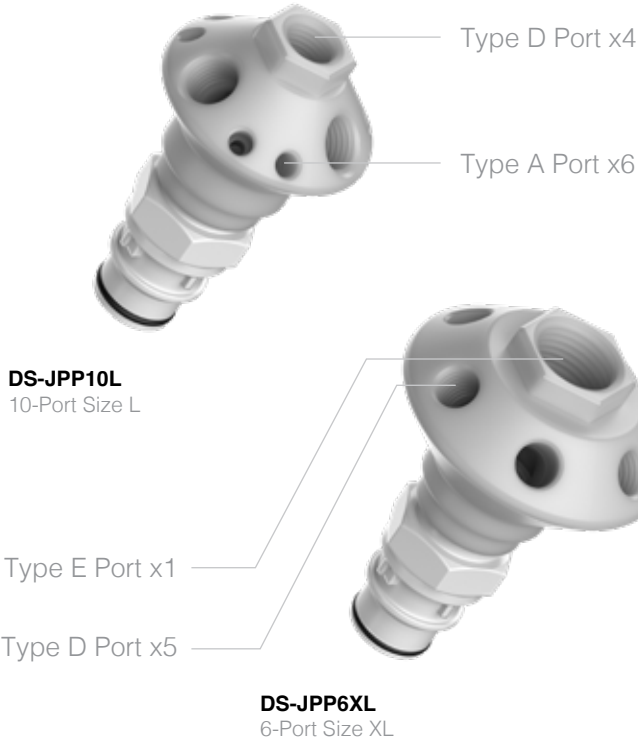
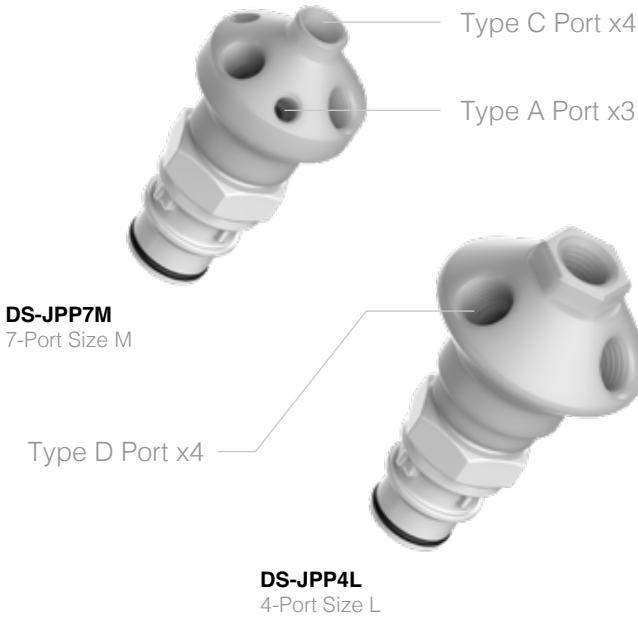


Container Type and Quick Disconnect

The deluxe option of solvent waste collection, Justrite® Centura™ safety cans offer a range of features which set them apart from other containers typically used for effluents. With a spring-loaded and pressure-relieving lid, spark arrester, groundable pouring spout, and shutoff quick disconnects, these containers make waste collection a relatively clean and easy process. The pour spout can be locked in open position when emptying the contents, and because the quick disconnects include shutoff valves, it's easy to disengage waste manifolds (and exhaust filters) when switching out full containers with empty.



Waste Collection



Part Number	Description	# of Ports
Manifolds for Justrite® plastic quick disconnects		
DS-JPP7M	7-Port, Size M, Polypropylene	3A, 4C
DS-JPP4L	4-Port, Size L, Polypropylene	4D
DS-JPP10L	10-Port, Size L, Polypropylene	6A, 4D
DS-JPP6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for Justrite® plastic quick disconnects		
DS-KJP-A	Waste Kit Basic	6A, 4D
DS-KJP-B	Waste Kit Plus	6A, 4D



Basic Kit Contents

The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

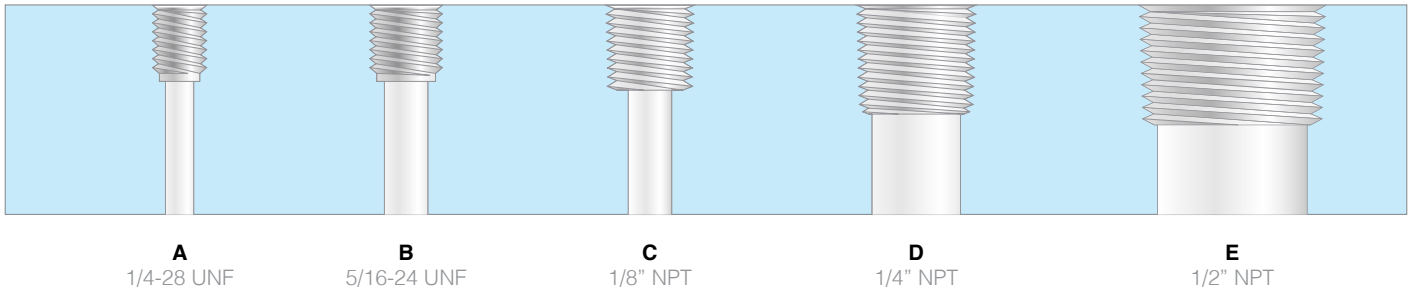
The fittings kit includes:

- (6) PTFE Type A port plugs
- (4) PP Type D port plugs
- (1) Barbed 1/4" Y-connector
- (1) 3/8" ID barbed adapter
- (3) 1/4" ID barbed adapters
- (1) 3/16" ID barbed adapter
- (1) 1/8" ID barbed adapter
- (2) 1/16" OD tube fittings
- (2) 2.2mm OD tube fittings
- (1) 2.5mm OD tube fitting
- (3) 1/8" OD tube fittings

Plus Kit Contents

The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

Port Thread Sizes



Justrite® Container

With stainless steel quick disconnects



Container Type and Quick Disconnect

The deluxe option of solvent waste collection, Justrite® Centura™ safety cans offer a range of features which set them apart from other containers typically used for effluents. With a spring-loaded and pressure-relieving lid, spark arrester, groundable pouring spout, and shutoff quick disconnects, these containers make waste collection a relatively clean and easy process. The pour spout can be locked in open position when emptying the contents, and because the quick disconnects include shutoff valves, it's easy to disengage waste manifolds (and exhaust filters) when switching out full containers with empty.



Waste Collection

Type C Port x4
Type A Port x3

DS-JSP7M / DS-JSX7M
7-Port Size M

Type D Port x4

DS-JSP4L
4-Port Size L

Type D Port x4
Type A Port x6

DS-JSP10L
10-Port Size L

Type E Port x1
Type D Port x5

DS-JSP6XL
6-Port Size XL

Part Number	Description	# of Ports
Manifolds for Justrite® stainless steel quick disconnects		
DS-JSP7M	7-Port, Size M, Polypropylene	3A, 4C
DS-JSX7M	7-Port, Size M, PTFE	3A, 4C
DS-JSP4L	4-Port, Size L, Polypropylene	4D
DS-JSP10L	10-Port, Size L, Polypropylene	6A, 4D
DS-JSP6XL	6-Port, Size XL, Polypropylene	5D, 1E
Waste Kits for Justrite® stainless steel quick disconnects		
DS-KJS-A	Waste Kit Basic	6A, 4D
DS-KJS-B	Waste Kit Plus	6A, 4D

DS-KJS-A
Basic Waste Kit

DS-KJS-B
Plus Waste Kit

Basic Kit Contents

The Basic Kit for HPLC waste collection includes a 10-port Polypropylene manifold, fittings kit with tubing connections for typical analytical-scale HPLC instruments, port plugs, filter adapter (straight and 90 degree elbow) and an exhaust filter with timer.

- The fittings kit includes:
- (6) PTFE Type A port plugs
 - (4) PP Type D port plugs
 - (1) Barbed 1/4" Y-connector
 - (1) 3/8" ID barbed adapter
 - (3) 1/4" ID barbed adapters
 - (1) 3/16" ID barbed adapter
 - (1) 1/8" ID barbed adapter
 - (2) 1/16" OD tube fittings
 - (2) 2.2mm OD tube fittings
 - (1) 2.5mm OD tube fitting
 - (3) 1/8" OD tube fittings

Plus Kit Contents

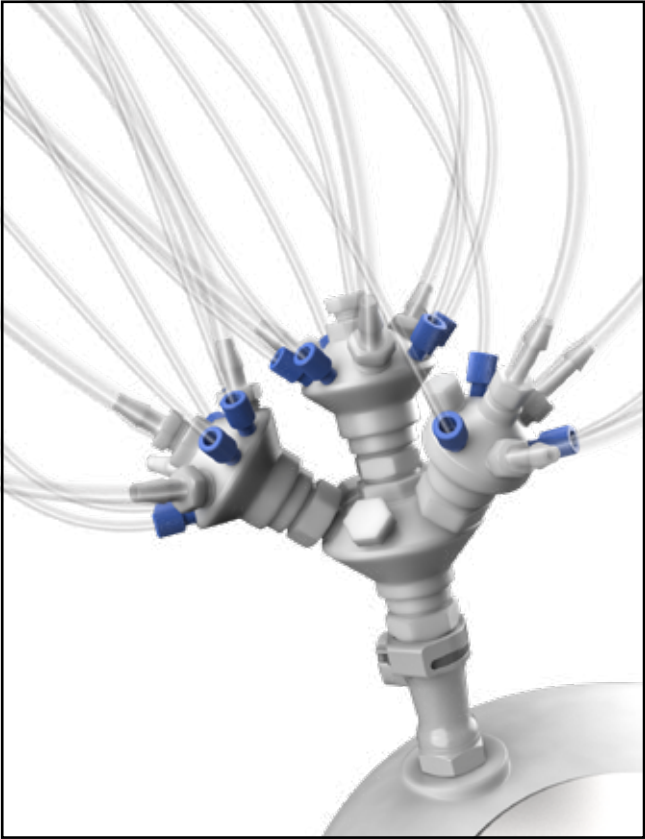
The Plus Kit includes all the essentials of the Basic Kit for HPLC waste collection, but with the addition of a 5' tubing extension for detector outlets or short effluent tubes, plus a chemical-change indicator for real-time end of service life with organic solvents.

Port Thread Sizes

A 1/4-28 UNF **B** 5/16-24 UNF **C** 1/8" NPT **D** 1/4" NPT **E** 1/2" NPT

Stacking Manifolds

Expansion units for extra tubes



(Nearly) limitless modular expansion

One of the unique features of our solvent collection manifolds is their ability to adapt to additional tubing requirements.

Whether attaching five tubes or fifty, each manifold can be expanded to fit the need by connecting modular “stacking” units. With tapered self-sealing NPT common threads, select the manifold which allows your system to accommodate the needs of your lab.

This is especially useful in laboratories which are already at the maximum solvent capacity permissible by law. By connecting more than one instrument to a single waste carboy, additional containers may not be required.

Part Number	Description	# of Ports
Stacking Manifolds for Type C ports - 1/8" NPT		
DS-SPC7M	7-Port, Size M, Polypropylene	3A, 4C
DS-SXC7M	7-Port, Size M, PTFE	3A, 4C
Stacking Manifolds for Type D ports - 1/4" NPT		
DS-SPD7M	7-Port, Size M, Polypropylene	3A, 4C
DS-SXD7M	7-Port, Size M, PTFE	3A, 4C
DS-SPD4L	4-Port, Size L, Polypropylene	4D
DS-SPD10L	10-Port, Size L, Polypropylene	6A, 4D
DS-SPD6XL	6-Port, Size XL, Polypropylene	5D, 1E
Stacking Manifolds for Type E ports - 1/2" NPT		
DS-SPE7M	7-Port, Size M, Polypropylene	3A, 4C
DS-SXE7M	7-Port, Size M, PTFE	3A, 4C
DS-SPE4L	4-Port, Size L, Polypropylene	4D
DS-SPE10L	10-Port, Size L, Polypropylene	6A, 4D
DS-SPE6XL	6-Port, Size XL, Polypropylene	5D, 1E

DS-SPC7M / DS-SXC7M
7-Port Size M, fits Type C port

DS-SPD7M / DS-SXD7M
7-Port Size M, fits Type D port

DS-SPE7M / DS-SXE7M
7-Port Size M, fits Type E port

DS-SPD4L
4-Port Size L, fits Type D port

DS-SPE4L
4-Port Size L, fits Type E port

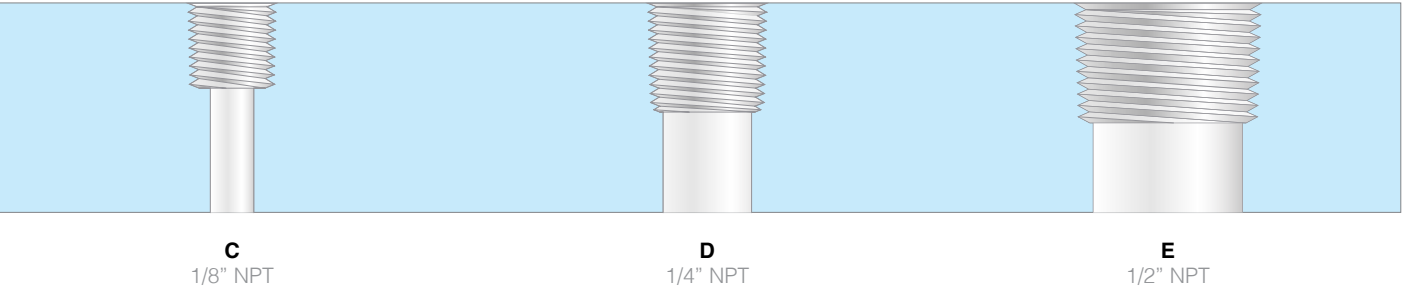
DS-SPD10L
10-Port Size L, fits Type D port

DS-SPE10L
10-Port Size L, fits Type E port

DS-SPD6XL
6-Port Size XL, fits Type D port

DS-SPE6XL
6-Port Size XL, fits Type E port

Port Thread Sizes



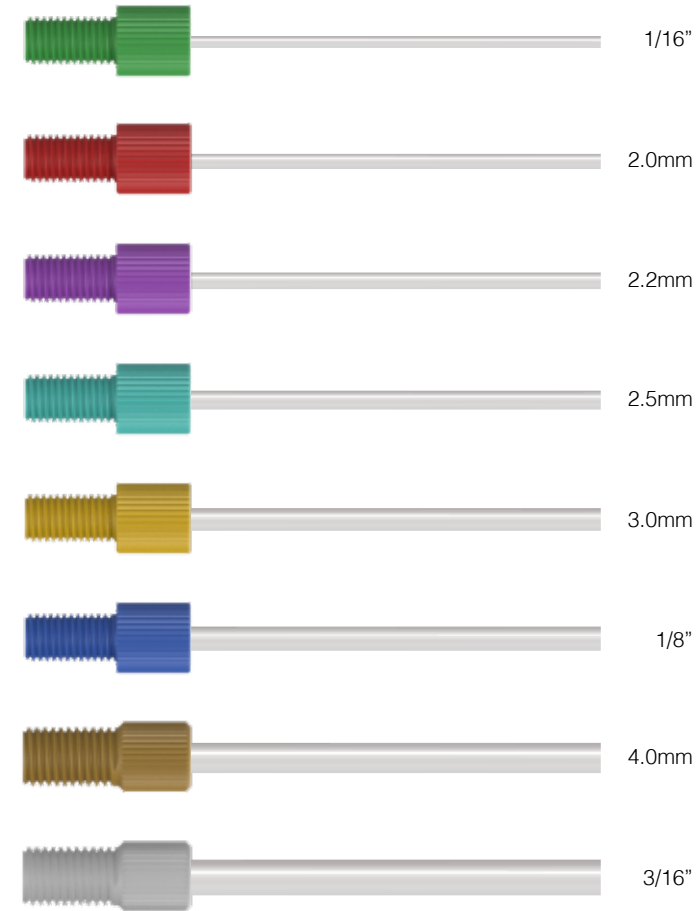
Compression Fittings

Connections for hard-wall tubing

Tubing connections by OD and port type

The small-diameter tubing (typically less than 1/4" OD) used in many laboratory instruments for transporting solvents is often supplied in PTFE, ETFE, FEP, or similar fluoropolymer. Because the walls of the tubing are too hard for reliable connections with barbed fittings, these chemically resistant plastics are connected to caps and manifolds by using compressing fittings. With a threaded nut tightening over a pliable ferrule, the OD of the tubing is compressed, forming a seal around the tube and against the bottom of the threaded port.

"Type A" (1/4-28) threaded fittings are all Polypropylene, while "Type B" (5/16-24) versions include ETFE ferrules with PEEK or Acetal nuts. The various colors conform to the OD of each tubing size.



Part Number	Description	U/M	Material
Type A – 1/4-28 UNF			
DS-CPA16X	1/16" OD Tubing	10/PK	PP
DS-CPA20X	2.0mm OD Tubing	10/PK	PP
DS-CPA22X	2.2mm OD Tubing	10/PK	PP
DS-CPA25X	2.5mm OD Tubing	10/PK	PP
DS-CPA30X	3.0mm OD Tubing	10/PK	PP
DS-CPA32X	1/8" OD Tubing	10/PK	PP
Type B – 5/16-24 UNF			
DS-CKB40	4.0mm OD Tubing	Each	PEEK/ETFE
DS-CAB47	3/16" OD Tubing	Each	Acetal/ETFE
Type C – 1/8" NPT			
DS-CPC16	1/16" OD Tubing	Each	PP
DS-CPC20	2.0mm OD Tubing	Each	PP
DS-CPC22	2.2mm OD Tubing	Each	PP
DS-CPC25	2.5mm OD Tubing	Each	PP
DS-CPC30	3.0mm OD Tubing	Each	PP
DS-CPC32	1/8" OD Tubing	Each	PP
Type D – 1/4" NPT			
DS-CPD16	1/16" OD Tubing	Each	PP
DS-CPD20	2.0mm OD Tubing	Each	PP
DS-CPD22	2.2mm OD Tubing	Each	PP
DS-CPD25	2.5mm OD Tubing	Each	PP
DS-CPD30	3.0mm OD Tubing	Each	PP
DS-CPD32	1/8" OD Tubing	Each	PP



DS-CPA16X
1/16" OD Tubing, 10/PK



DS-CPA20X
2.0mm OD Tubing, 10/PK



DS-CPA22X
2.2mm OD Tubing, 10/PK



DS-CPA25X
2.5mm OD Tubing, 10/PK



DS-CPA30X
3.0mm OD Tubing, 10/PK



DS-CPA32X
1/8" OD Tubing, 10/PK



DS-CKB40
4.0mm OD Tubing



DS-CAB47
3/16" OD Tubing



DS-CPC16
1/16" OD Tubing



DS-CPC20
2.0mm OD Tubing



DS-CPC22
2.2mm OD Tubing



DS-CPC25
2.5mm OD Tubing



DS-CPC30
3.0mm OD Tubing



DS-CPC32
1/8" OD Tubing



DS-CPD16
1/16" OD Tubing



DS-CPD20
2.0mm OD Tubing



DS-CPD22
2.2mm OD Tubing



DS-CPD25
2.5mm OD Tubing

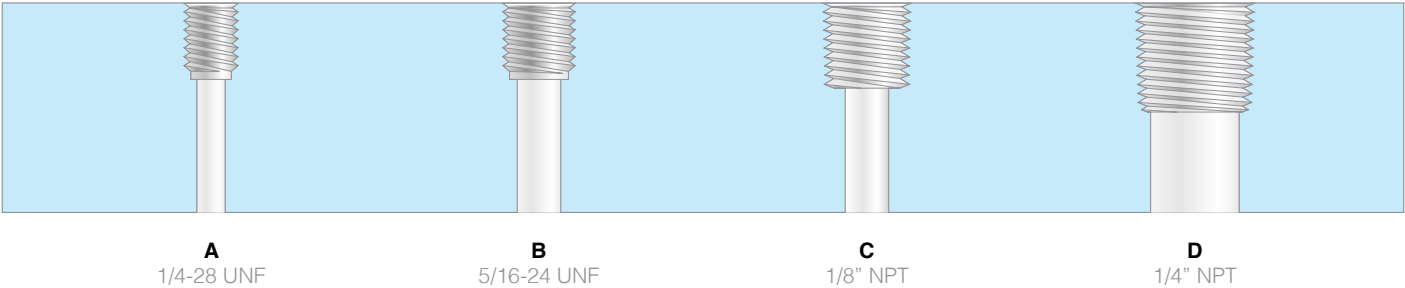


DS-CPD30
3.0mm OD Tubing



DS-CPD32
1/8" OD Tubing

Port Thread Sizes

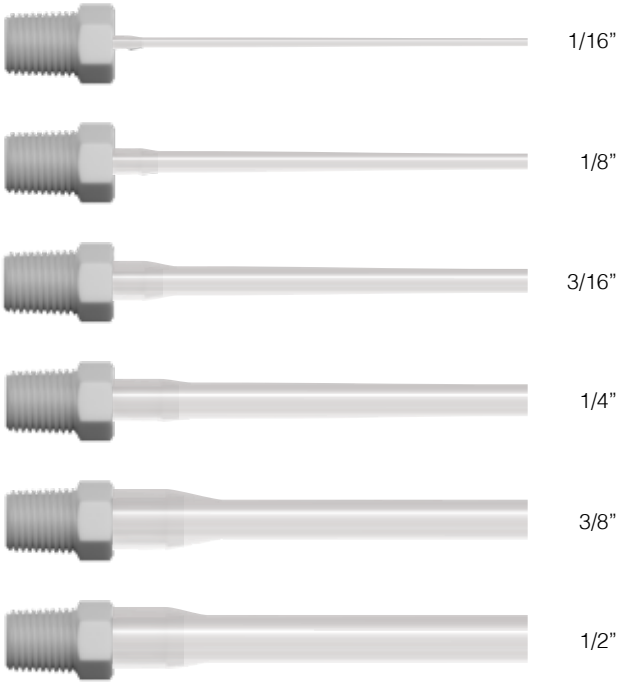


Barbed Fittings

Connections for soft-wall tubing

Tubing connections by ID and port type

Often used for instrument waste plumbing where more chemically resistant tubing is not required, soft-material tubing like Tygon® or silicone is a convenient way to drain aqueous waste or buffers. These materials work well with barbed fittings. Supplied here in chemically resistant Polypropylene, these fittings are available in packs of 10 each.



Part Number	Description	U/M	Material
Thread Type C – 1/8" NPT			
DS-BPC16X	1/16" ID Tubing	10/PK	PP
DS-BPC32X	1/8" ID Tubing	10/PK	PP
DS-BPC47X	3/16" ID Tubing	10/PK	PP
DS-BPC64X	1/4" ID Tubing	10/PK	PP
DS-BPC95X	3/8" ID Tubing	10/PK	PP
Thread Type D – 1/4" NPT			
DS-BPD32X	1/8" ID Tubing	10/PK	PP
DS-BPD47X	3/16" ID Tubing	10/PK	PP
DS-BPD64X	1/4" ID Tubing	10/PK	PP
DS-BPD95X	3/8" ID Tubing	10/PK	PP
DS-BPD127X	1/2" ID Tubing	10/PK	PP



DS-BPC16X
Type C x 1/16" ID Tubing, 10/PK



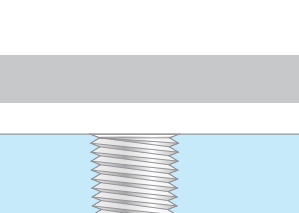
DS-BPC32X
Type C x 1/8" ID Tubing, 10/PK



DS-BPC47X
Type C x 3/16" ID Tubing, 10/PK



DS-BPC64X
Type C x 1/4" ID Tubing, 10/PK



DS-BPC95X
Type C x 3/8" ID Tubing, 10/PK



DS-BPD32X
Type D x 1/8" ID Tubing, 10/PK



DS-BPD47X
Type D x 3/16" ID Tubing, 10/PK



DS-BPD64X
Type D x 1/4" ID Tubing, 10/PK

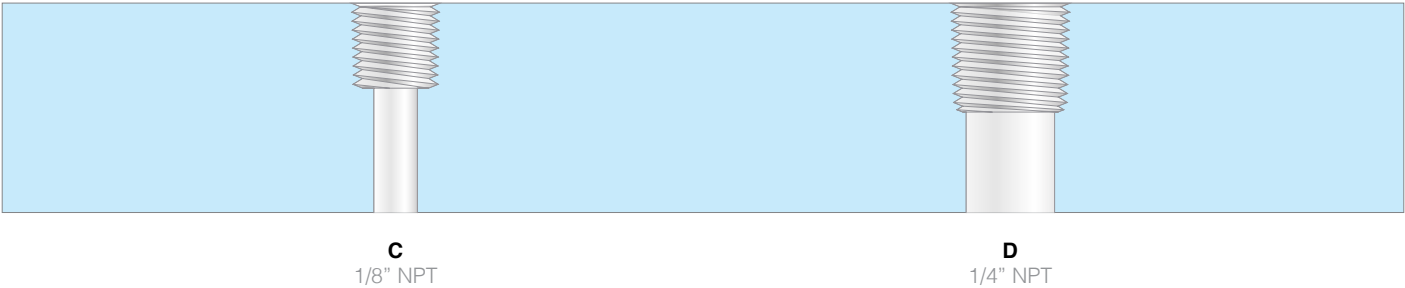


DS-BPD95X
Type D x 3/8" ID Tubing, 10/PK



DS-BPD127X
Type D x 1/2" ID Tubing, 10/PK

Port Thread Sizes



Plugs and Extras

Fittings kits, tubing extensions, adapters, plugs, and Y-fittings

Miscellaneous parts and adapters

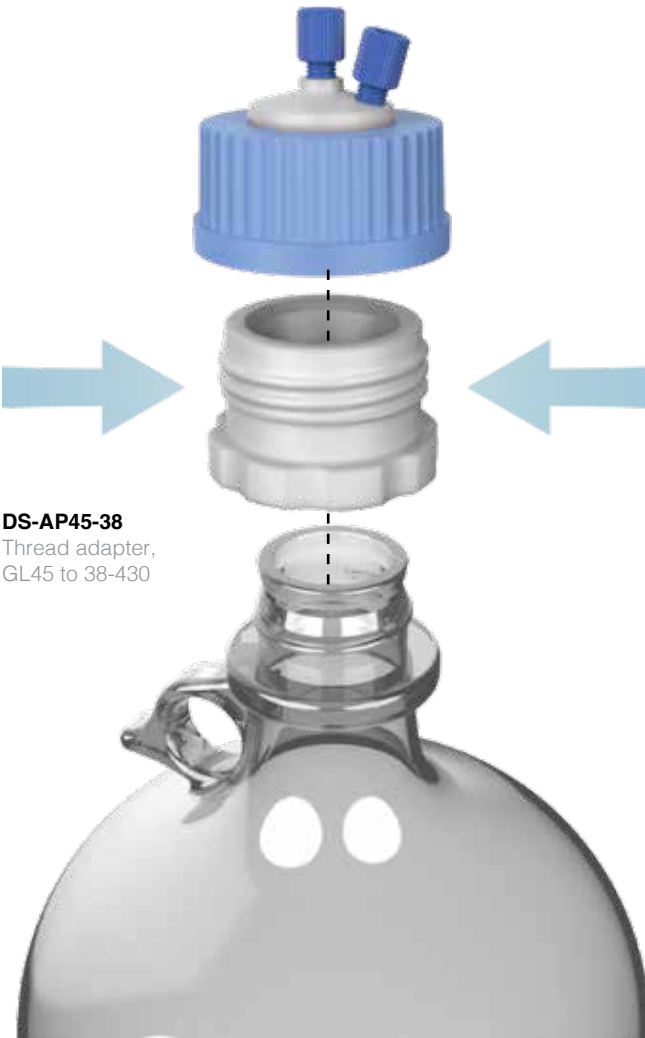
When you're plumbing an HPLC system, it's surprising how often you need something extra. Look here when you need a spare or when you're trying to attach this to that. Let us know if you don't find what you're searching for.



DS-FK1
Fittings kit



DS-TX5
Tubing extension, 5'



DS-AP45-38
Thread adapter,
GL45 to 38-430

Part Number	Description	Material
Type A – 1/4-28 UNF		
DS-PXAX	Plug for Type A Ports, 10/PK	PTFE
Type B – 5/16-24 UNF		
DS-PXBX	Plug for Type B Ports, 10/PK	PTFE
Type C – 1/8" NPT		
DS-PPCX	Plug for Type C Ports, 10/PK	PP
DS-APAC	Adapter, Type A x Type C	PP
DS-APBC	Adapter, Type B x Type C	PP
Type D – 1/4" NPT		
DS-PPDX	Plug for Type D Ports, 10/PK	PP
DS-APAD	Adapter, Type A x Type D	PP
DS-APBD	Adapter, Type B x Type D	PP
Type E – 1/2" NPT		
DS-PPEX	Plug for Type E Ports, 10/PK	PP
DS-APDE	Adapter, Type D x Type E	PP
Barbed Y Fittings		
DS-YP16X	1/16" ID tubing, 10/PK	PP
DS-YP32X	1/8" ID tubing, 10/PK	PP
DS-YP64X	1/4" ID tubing, 10/PK	PP
DS-YP95X	3/8" ID tubing, 10/PK	PP
Fittings Kit		
DS-FK1	Fittings kit for typical HPLC	PTFE /PP
Tubing Extension		
DS-TX5	Tubing extension, 5'	PTFE /PP
DS-TX5-4PK	4-Pack tubing extension	PTFE /PP
Bottle Thread Adapters		
DS-AP45-38	Thread adapter, GL45 X 38-430	PP
DS-AP45-40	Thread adapter, GL45 X Merck S40	PP

Barbed Y Fittings



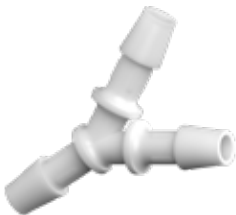
DS-YP16X
Y Fitting 1/16", 10/PK



DS-YP32X
Y Fitting 1/8", 10/PK



DS-YP64X
Y Fitting 1/4", 10/PK



DS-YP95X
Y Fitting 3/8", 10/PK

Threaded Adapters



DS-APBC
Adapter
Type B x
Type C



DS-APBD
Adapter
Type B x
Type D



DS-APAC
Adapter
Type A x
Type C



DS-APAD
Adapter
Type A x
Type D



DS-APDE
Adapter
Type D x
Type E

Threaded Port Plugs



DS-PXAX
Plug for
Type A Ports
10/PK



DS-PXBX
Plug for
Type B Ports
10/PK



DS-PPCX
Plug for
Type C Ports
10/PK

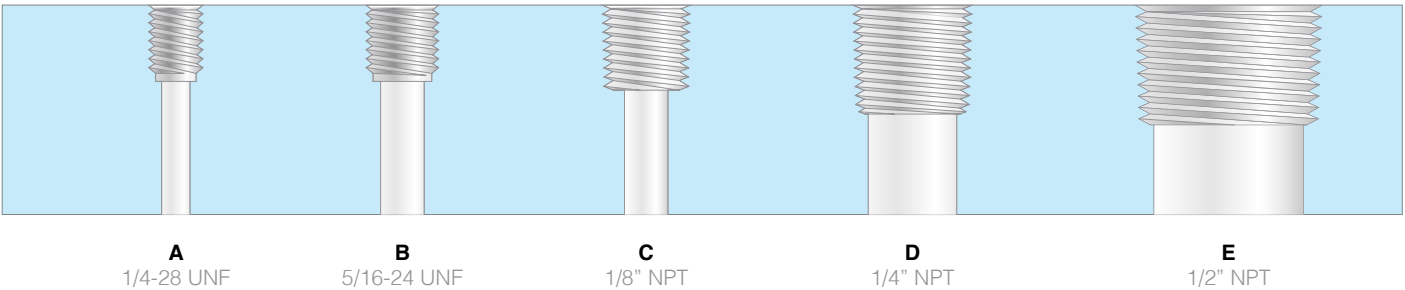


DS-PPDX
Plug for
Type D Ports
10/PK



DS-PPEX
Plug for
Type E Ports
10/PK

Port Thread Sizes



Container Types

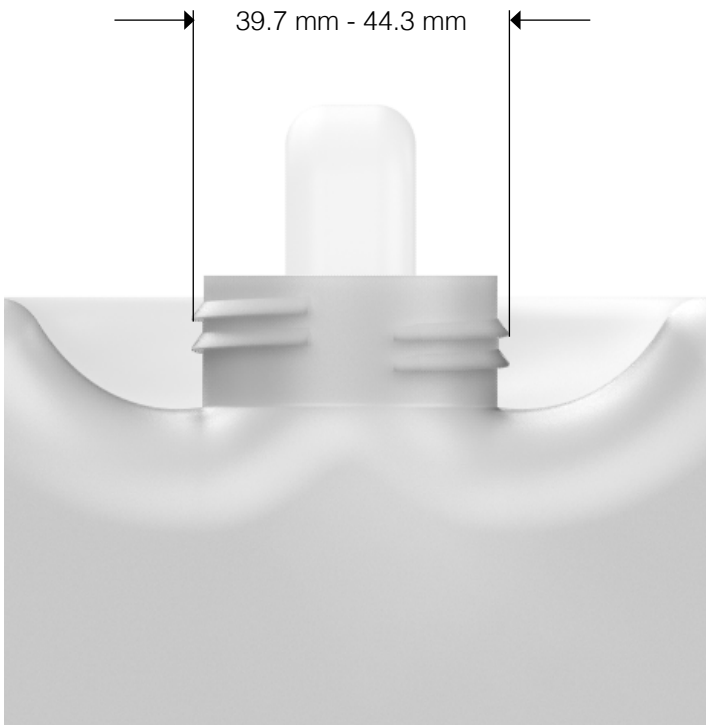
A closer look at container threads and dimensions, at 1:1 scale



38-400 shallow thread (Wako® / Cubitainer®)
Scale 1:1



GL38 glass thread
Scale 1:1



DIN45
Scale 1:1



48mm Thermo Nalgene™ Biotainer™
Scale 1:1



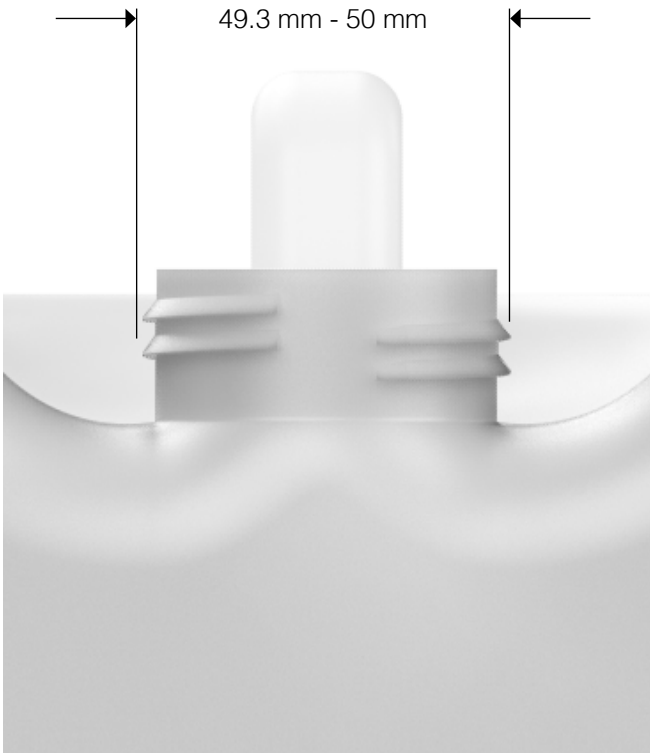
38-430 Nalgene plastic thread
Scale 1:1



GL45 glass thread
Scale 1:1



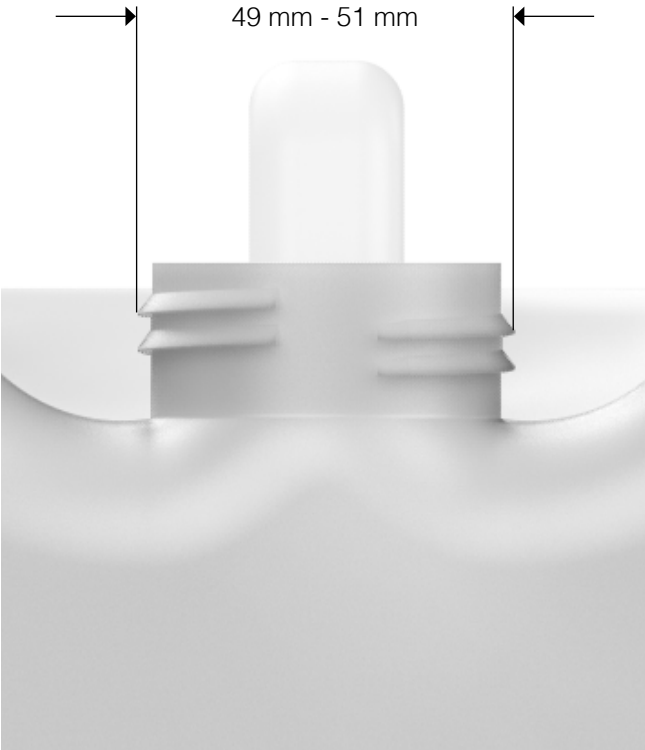
48mm Corning® Roller Bottle
Scale 1:1



DIN50
Scale 1:1

Container Types

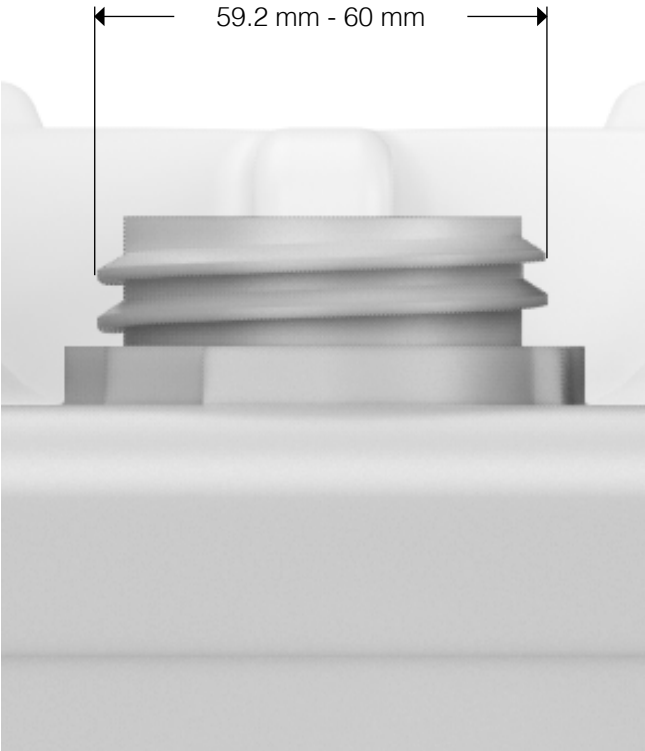
A closer look at container threads and dimensions, at 1:1 scale



51mm
Scale 1:1



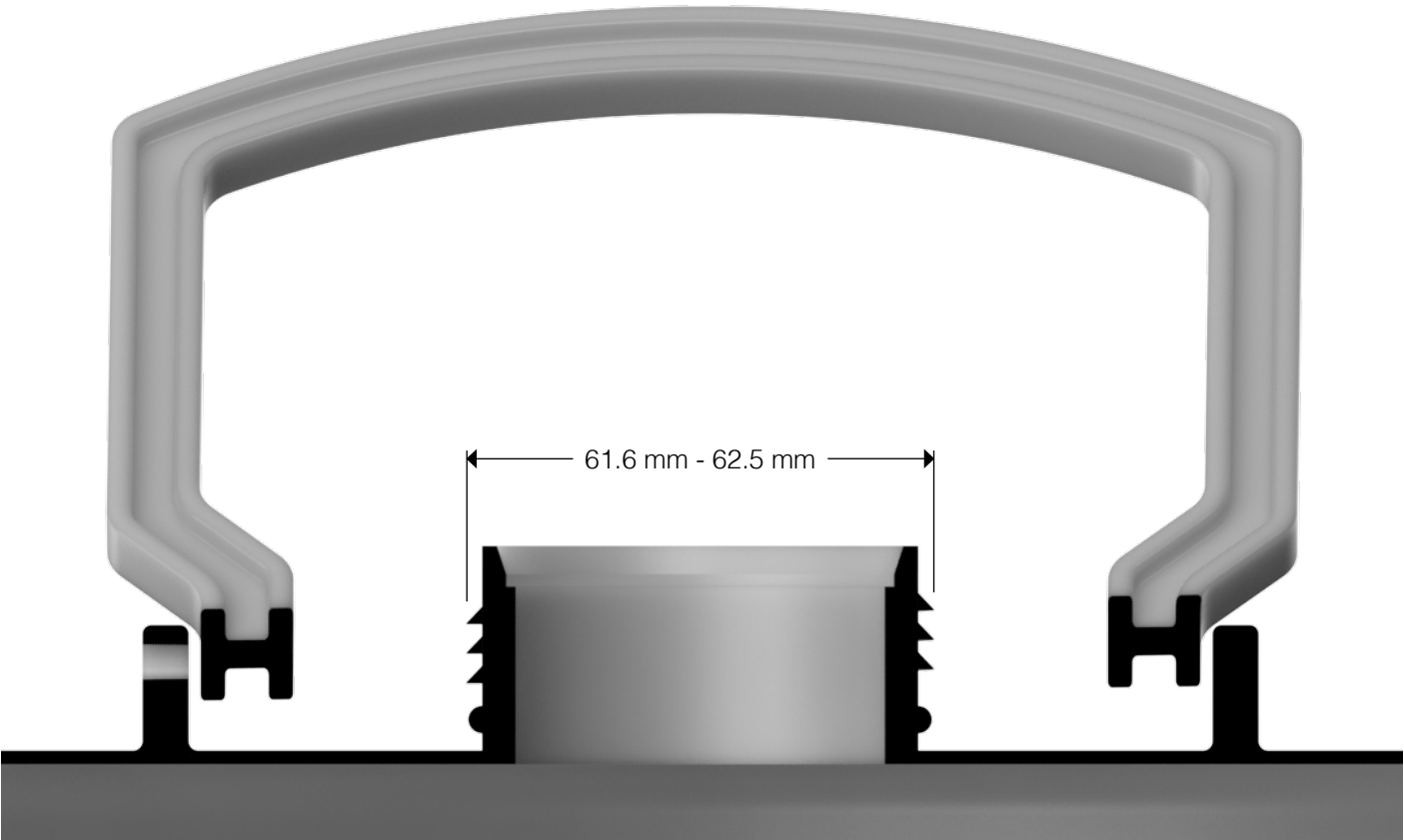
53B Nalgene
Scale 1:1



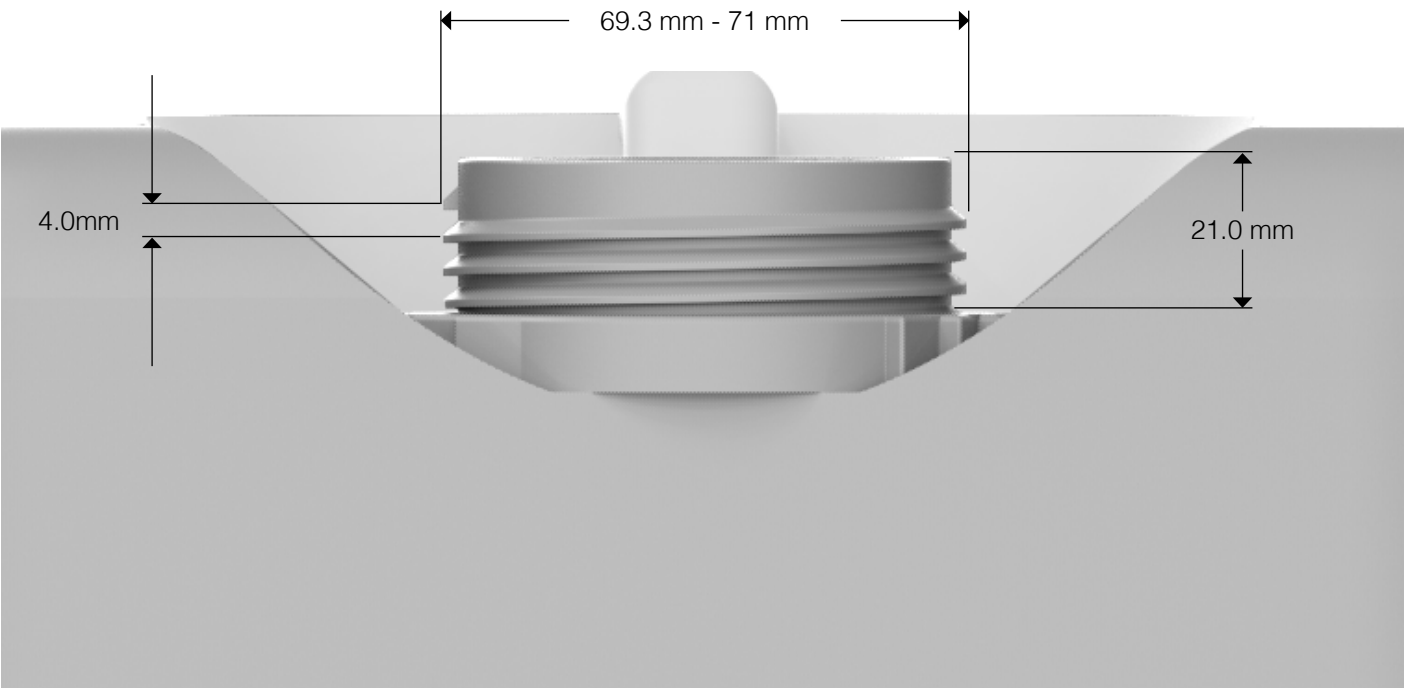
DIN60
Scale 1:1



61mm
Scale 1:1



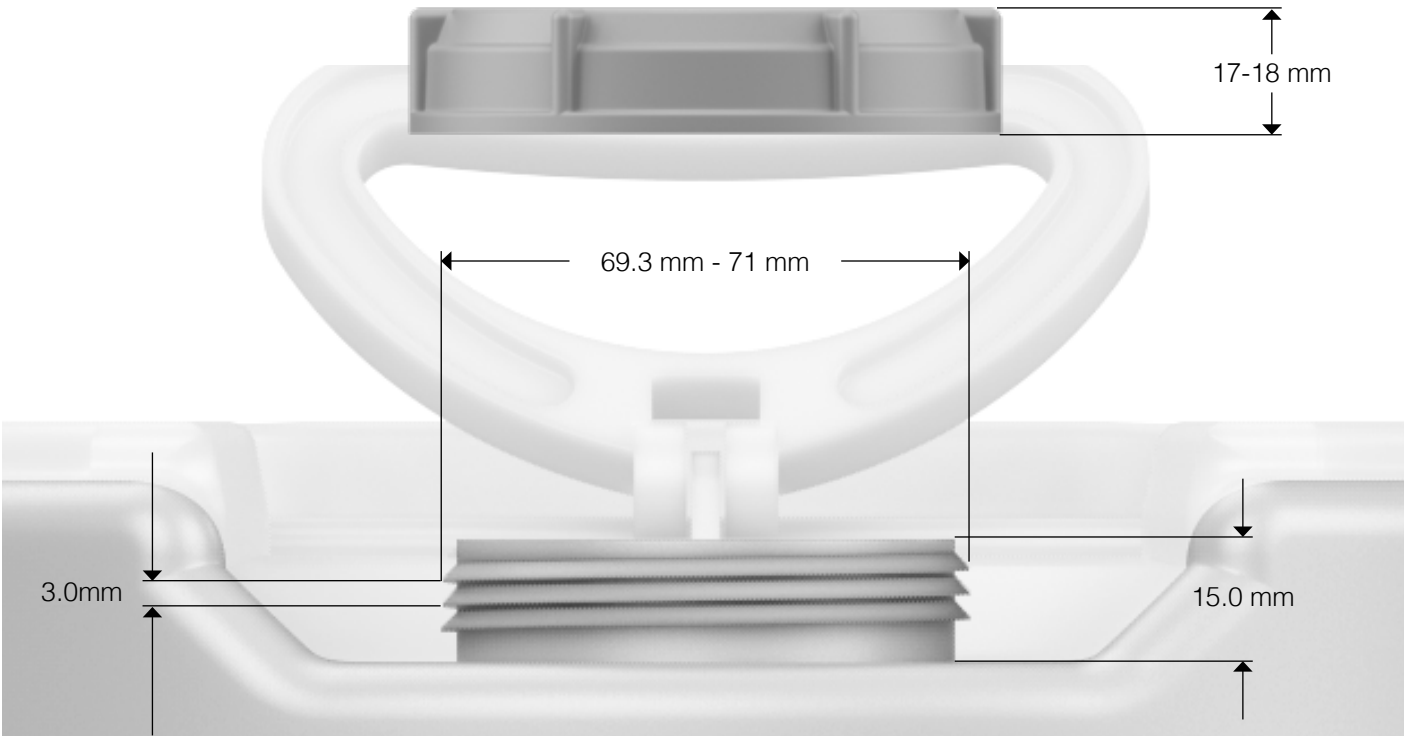
63mm Rieke / NowPak
Scale 1:1



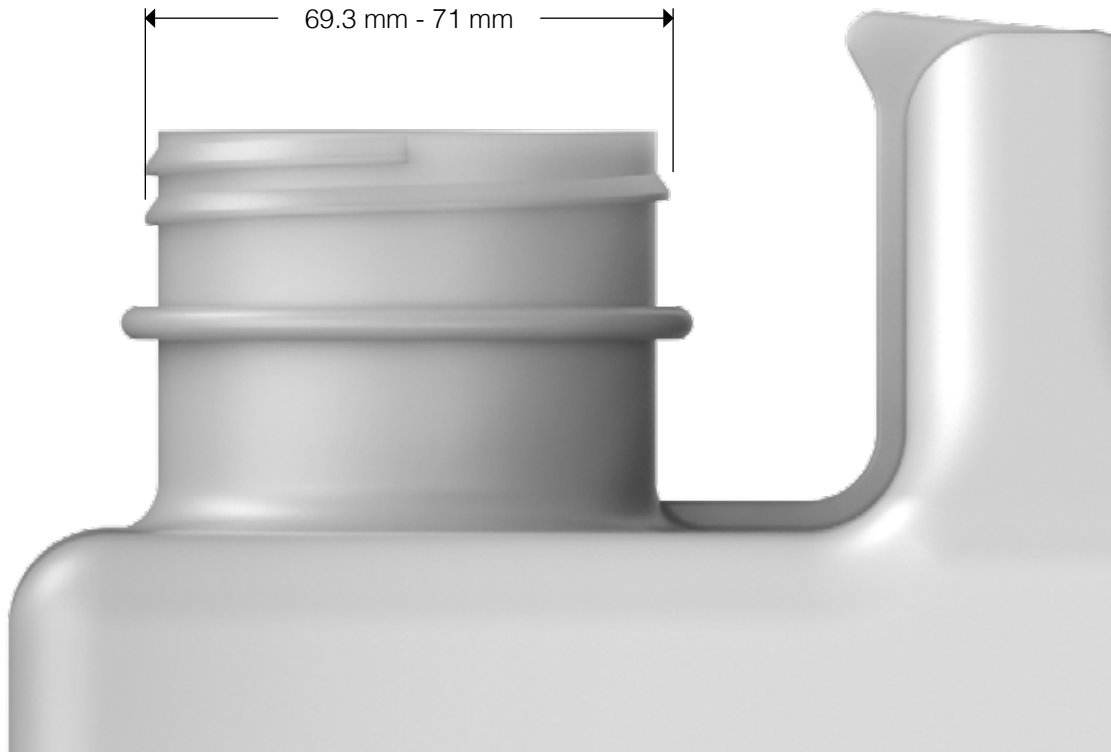
70mm Rieke - 6TPI
Scale 1:1

Container Types

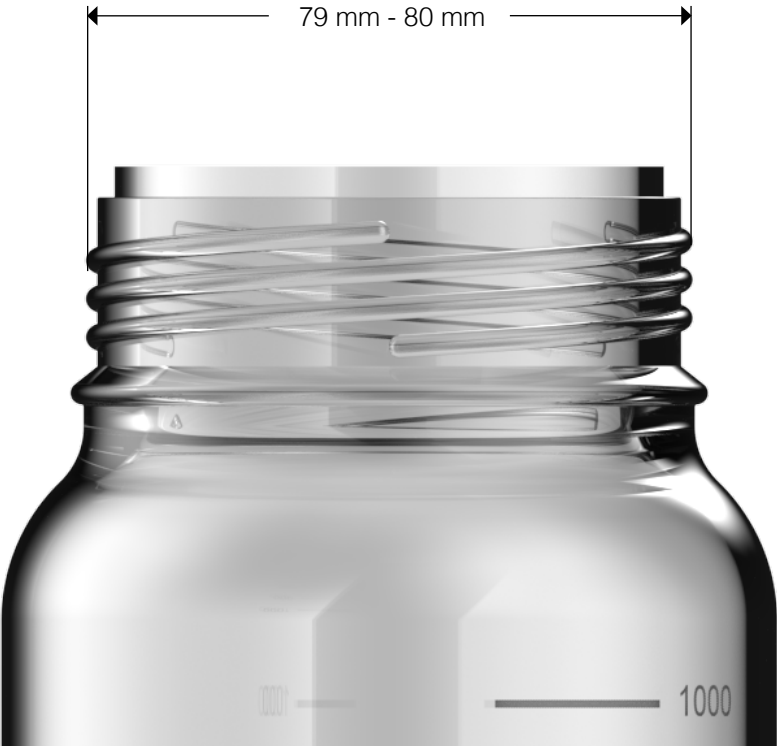
A closer look at container threads and dimensions, at 1:1 scale



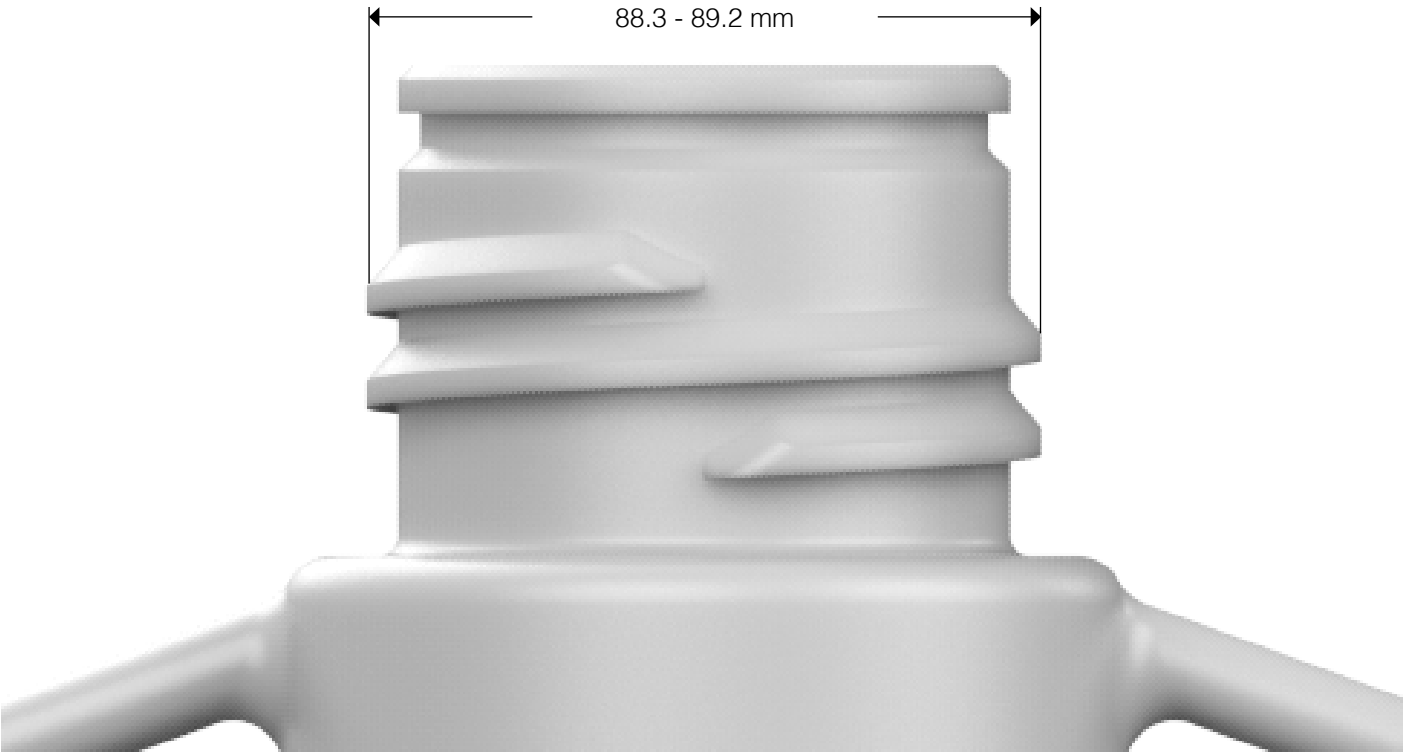
70mm Rieke - 8TPI
Scale 1:1



70mm Nalgene® / Mason jar thread
Scale 1:1

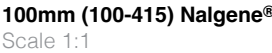


GL80 glass thread
Scale 1:1



83B Nalgene® / Foxx Life Sciences™
Scale 1:1

A closer look at container threads and dimensions, at 1:1 scale

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