



Fisherbrand[®]

Laboratory Glassware

For your lab

2006



- Glassware
- Labpacks
- Microanalysis
- Mobile Phase Handling
- Pipets
- Tubes
- Vials

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NEW promo
on the back
cover!*



Fisher Scientific





Fisherbrand® Glass Dropping Bottles

With ground-in glass pipet dropper and rubber bulb provided.

Capacity	Cat. No.	Each	Pack of 12
1oz. (30mL)	02-992A	53.73	470.59
2oz. (60mL)	02-992B	51.21	448.58



03-415B, 03-420A

Fisherbrand® Weighing Bottles

Corresponding numbers on bottles and stopper prevent mixup. Stoppers have sturdy bottoms to prevent chipping and facilitate cleaning. Lamp-blown glass.

Approx. Capacity	I.D. x Height	Cat. No.	Each	Pack of 12
Tall, Cylindrical Form				
10mL	25 x 40mm	03-415B	48.10	398.09
16	25 x 50	03-415C	52.72	436.27
30	30 x 60	03-415E	50.54	418.24
70	40 x 80	03-415H	85.23	705.38
115	40 x 120	03-415K	49.84	529.24
Low, Flat Form				
35mL	50 x 30mm	03-420A	115.20	953.34
50	60 x 30	03-420B	100.92	835.18
82	70 x 33	03-420C	147.89	1223.89

Fisherbrand® Mixing Cylinders with Stoppers

Double metric scale with white-enamel graduations. First 10% of volume not graduated. Ground-glass pennyhead stoppers. Calibrated "To Contain."

Cap.	Subdiv.	Tol.	Cat. No.	Each	Case of
10mL	0.2mL	±0.1mL	08-565A	65.56	12/542.59
25	0.5	±0.3	08-565B	90.77	12/751.22
50	1	±0.4	08-565C	100.45	12/831.28
100	1	±0.6	08-565D	101.64	12/841.12
250	2	±1.4	08-565E	171.86	6/711.14
500	5	±2.6	08-565F	195.10	6/807.30



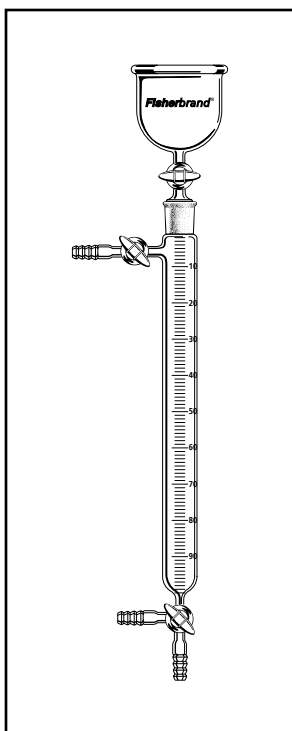
Fisherbrand® White Line Flasks with Stoppers

Economically priced flasks for most analytical work. White permanently etched graduation lines calibrated "To Contain" designated volume. Flasks are calibrated within the listed volume tolerances for Class A as specified in ASTM E 288, E 542, and E 694 standards ground glass stoppers.

Capacity	Tolerance	No.	Cat. No.	Each	Case of
25mL	±0.03mL	9	10-205A	78.13	12/646.58
50	±0.05	9	10-205B	93.20	12/771.28
100	±0.08	13	10-205C	91.21	12/754.87
250	±0.12	16	10-205D	106.28	12/879.58
500	±0.20	19	10-205E	172.76	12/1429.72
1000	±0.30	22	10-205F	208.40	4/574.91

Without Stoppers. Same as 10-205 Series above, except without stoppers and ground glass tops. Use rubber stoppers.

Capacity	Tolerance	Cat. No.	Each	Case of
25mL	±0.03mL	10-200A	48.37	12/400.81
50	±0.05	10-200B	48.43	12/400.81
100	±0.08	10-200C	54.66	12/452.37
200	±0.10	10-200D	60.03	12/496.82
250	±0.12	10-200E	63.41	12/524.77
500	±0.20	10-200F	81.84	12/677.29
1000	±0.30	10-200G	101.63	4/280.36



Fisherbrand® Ammonia Buret

Used to determine the degree of dissociation of ammonia during the nitriding of steel alloys. Buret is 100 mL and reads the amount of ammonia absorbed. Graduated from 10 to 90 percent in 1% subdivisions. Stopcocks are glass and a 3/19/22 joint connects the filling funnel with the buret.

Capacity	Cat. No.	Each
100 mL	K050655-0101	558.73

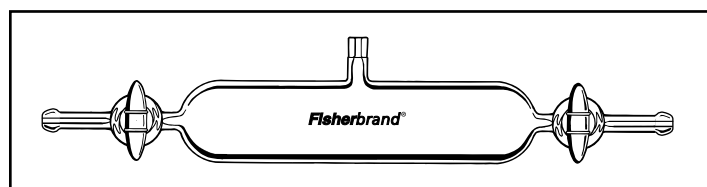
Take advantage of the NEW 2006 Fisherbrand Glass and Plastic Giveaway!

**Fisherbrand®
Squibb-Type Separatory Funnels with
PTFE Stopcock**

Made of borosilicate glass. With stopper and Teflon® fluorocarbon resin stopcock. Stem length, 60mm.



Capacity	No.	Stopper No.	Cat. No.	Case of
125mL	2	22	10-436-1A	6/488.01
250	4	22	10-436-1B	6/578.10
500	4	27	10-436-1C	6/612.95
1000	4	27	10-436-1D	4/562.27



**Fisherbrand®
Gas Sampling Tubes**

Fisherbrand® Septum-Port Gas Sampling Tube. For gas chromatography. Extract gas by piercing self-sealing cap on side arm with stopcocks. Borosilicate glass. 250mL capacity.

Capacity	Cat. No.	Each
250mL	11-134-190	169.24

Rubber Septum Stoppers.

For Use With	Cat. No.	Pack of 100
11-134-190	03-215-5	56.78

*Redemption
Form is
on the back
cover.*

Buy \$500 of any Fisherbrand glass or plastic products from this brochure and receive \$100 of Fisherbrand products from this brochure at list price FREE. Simply place your orders with Fisher Scientific, complete the redemption form and then fax along with your Fisher proof-of-purchase to Fisherbrand Glass and Plastic Giveaway at 856-692-8134. Offer valid 3/1/06 through 11/30/06. Please allow 4-6 weeks for delivery.



**Fisherbrand®
Kimble* Labpacks**

Labpacks contain glassware and accessories used in the average high school and college chemistry lab. Whether you want to issue each student his or her own lab set or you're setting up a small demonstration bench, there's a Labpack to suit your needs.

S43040 Advanced Labpack

Kit contains one each: plastic wash bottle; 60mm/35mL evaporating dish; 6" ruler; sponge; -10 to 250°C thermometer; micro spatula; 10 and 100mL graduated cylinders; short stem glass funnel; 25mL three-neck round bottom flask; 10mL volumetric and 10mL serological pipets; 25mL buret; 125 and 250mL erlenmeyer flasks; 400mL beaker; two each: 10, 25 and 50mL erlenmeyer flasks; 10, 30, 50, 100, 150 and 250mL beakers; 100mm watch glass; 2 oz. bottles; gloves (med., Nitrile – non-latex); eight each: 10x75mm test tubes; ten each: 15x125 test tubes.

S43038 Starter Labpack

Kit contains one each: plastic wash bottle; 6" ruler; sponge; -10 to 250°C thermometer; micro spatula; safety glasses; 10, 50 and 150mL beakers; 25mL erlenmeyer flask; two each: gloves (med., Nitrile – non-latex); five each: 10x75mm test tubes.

S43039 General Chemistry Labpack

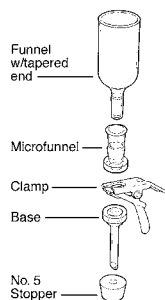
Kit contains one each: plastic wash bottle; micro test tube brush; test tube clamp; micro spatula; 40x60 crystallization dish; 6" ruler; sponge; -10 to 250 °C thermometer; micro spatula; 10mL graduated cylinder; 25mL filter flask; 20 micron plastic hirsh funnel; 100mm watch glass; 100, 150 and 400mL beakers; 50 and 250mL erlenmeyer flasks; two each: 25mL erlenmeyer flasks; 50mL beakers; 2 oz. bottles; gloves (med., Nitrile – non-latex); four each: 10x75mm test tubes.

Description	Cat. No.	Each
Starter Labpack	S43038	61.15
General Chemistry Labpack	S43039	130.95
Advanced Labpack	S43040	286.95

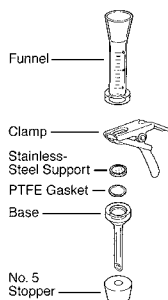
microanalysis



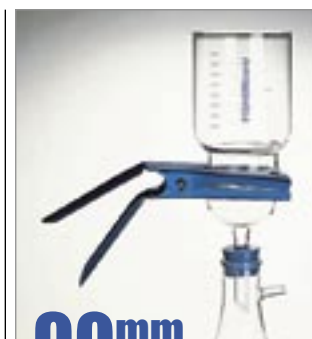
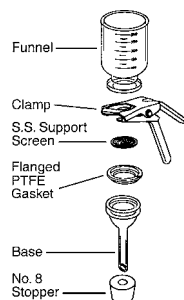
13mm
09-753A
09-753C



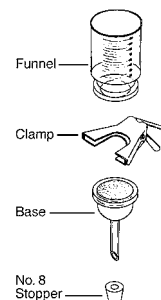
25mm
09-753E
09-753G



47mm
09-753-1A
09-753-1C
09-753-1E



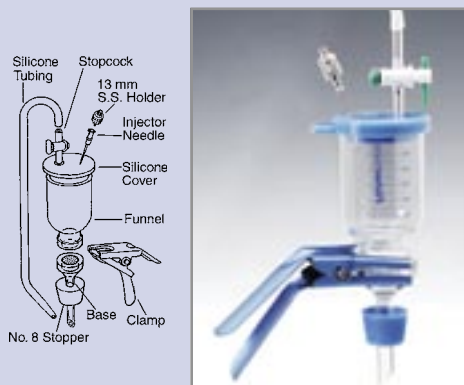
90mm
09-753-2



Filter Type	Glass Microanalysis, 13mm	Glass Microanalysis, 25mm	Glass Microanalysis, 47mm	Glass Microanalysis, 90mm
Applications	Filtering small liquid volumes in RNA/DNA hybridizations, collecting biological cells and other materials, preparing small volumes of sterile filtrate.	Filtering small volumes of fluids in biological or particulate contamination studies, gravimetric analyses, radio-chemical determinations, biological tests.	Analyzing <500mL for particulate or biological contamination water/waste-water analysis, pharmaceutical QC, yeast and mold detection, preparing ultraclean or sterile filtrates.	Filtering bioburden/heavy particle load samples; ultracleaning or filtering photoresists, viscous fluids when high flowrate is required; colony hybridization studies.
Filter	25mm	25mm	47mm	90mm
Prefilter	Not recommended	16mm	35mm	70mm
Filtration Area	1.1cm(2)	2.1cm(2)	9.6cm(2)	38.5cm(2)
Max. Cap.	100mL	25mL	320mL	1000mL
Grad. Vol.	Ungraduated	15mL	300mL	1000mL
Connection	No. 5 silicone stopper for 125mL flasks.†	No. 5 silicone stopper for 125mL flasks.†	No. 8 silicone stopper for 1L flask or manifold.	No. 8 silicone stopper for 1L flask or manifold.
Sterilization	Autoclavable‡	Autoclavable‡	Autoclavable‡	Autoclavable‡
Features	Use 25mm membranes, concentrate sample into 1.1cm(2) area (13mm diameter). Two models: 1) with 100mL borosilicate funnel; 2) with 13mL microfunnel for small volumes, 100mL funnel with tapered ground glass connector that fits inside microfunnel, increases capacity.	Use 25mm membranes, concentrate sample into 2.1cm(2) area. Available with integral fritted glass support to retain sample, or removable stainless-steel mesh support screen and PTFE gasket for ultraclean filtrate, proteina-ceous solutions, optimizing flow.	Use 47mm membranes. Available with integral fritted glass support for general and biological applications; with stainless-steel support for ultraclean filtrate or proteina-ceous solutions; or with stainless-steel support plus PTFE gasket, PTFE-coated sealing flange, to prevent membrane from sticking to base after autoclaving.	Integral fritted glass support assures that filter sits flat on support base for uniform distribution of sample. Filtration area is four times larger than on 47mm holders. (After filtration, 90mm membrane will fit into 150mm dish; 82mm will fit 100mm Petri dish.)
Components	Ungraduated borosilicate glass funnel(s), base, fritted glass support; anodized aluminum spring clamp; No. 5 stopper.	Flare-top 15mL borosilicate glass funnel (graduated 5 to 15mL in 1mL) and base; anodized aluminum spring clamp; No. 5 stopper.	Use 47mm membranes. Available with integral fritted glass support for general and biological applications; with stainless-steel support for ultraclean filtrate or proteina-ceous solutions; or with stainless-steel support plus PTFE gasket, PTFE-coated sealing flange, to prevent membrane from sticking to base after autoclaving.	Integral fritted glass support assures that filter sits flat on support base for uniform distribution of sample. Filtration area is four times larger than on 47mm holders. (After filtration, 90mm membrane will fit into 150mm dish; 82mm will fit 100mm Petri dish.)
	With Fritted Glass Supports and 100mL Funnel 13mL / 100 mL Funnels	With Fritted Glass Support With Stainless-Steel Support	With Glass Support With Steel Support (100 mesh) With PTFE Gasket and Flange	With Fritted Glass Support
Cat. No.	09-753A 09-753C	09-753E 09-753G	09-753-1A 09-753-1C 09-753-1E	09-753-2
Each	195.28 215.79	179.08 206.38	197.13 214.53 314.38	529.63

†A No. 8B stopper (09-753-9, previous page) is required to adapt holders to manifold systems. ‡With or without membrane, at 121°C (250°F) for 20 minutes.

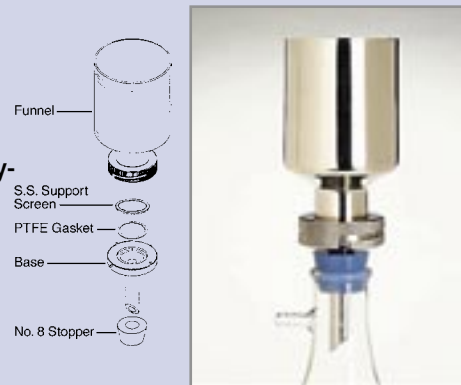
47mm
Sterility Test Vacuum Filter Holder
09-753-1G



Filter Type	Sterility Test Holder, 47mm
Applications	Sterility testing of antibiotics and pharmaceuticals by bacteria-retentive filter method (U.S. Pharmacopeia XXIII). Closed system minimizes contamination, allows venting.
Filter Size	47mm
Filtration Area	9.6cm(2)
Max. Capacity	300mL
Connection	No. 8 sil. stopper for sterility test manifold
Sterilization	Autoclavable.†
Features	Completely closed aseptic system includes funnel cap, silicone tubing, self-lubricating stopcock of Teflon(*) fluorocarbon resin for introducing sample and flushing funnel walls; injector needle with 13mm stainless-steel holder (09-753-10A) for venting; No. 8 stopper for mounting in sterility test manifold such as 09-753-35A or 09-753-35B. All materials are nontoxic.
Components	Borosilicate glass funnel (graduated 100-300mL in 25mL), base with integral fritted glass support, Teflon fluorocarbon resin stopcock with regulator valve; injector needle; 13mm holder; silicone cover; 21N(53cm) of silicone tubing; anodized aluminum spring clamp; No. 8 stopper.
Cat. No. / Price	09-753-1G / 350.35

†With or without membrane, at 121°C (250°F) for 20 minutes.

47mm
Stainless-Steel Micro-analysis Vacuum Filter Holder
09-753-1J



Filter Type	Stainless-Steel Microanalysis Filter Holder, 47mm
Applications	Filtering liquids through 47mm membrane for particulate contamination control or microbiological analyses of retained material.
Filter Size	47mm
Prefilter Size	35mm
Filtration Area	9.6cm(2)
Max. Capacity	500mL
Connection	No. 8 silicone stopper for 1L flask or filter manifold
Sterilization	Autoclavable.† Flame sterilizable.
Features	Bayonet lock securely fastens funnel to support base; will not twist or tear membranes. Funnel, base and support screen are Type 304 stainless steel. Unit is autoclavable, can be flame sterilized between samples. Mounts on 1L flask, or on vacuum manifold (such as 09-753-36A or 09-753-36B).
Components	Easy to assemble. Unbreakable 500mL stainless-steel funnel (with locking nut), base (with set pins), support screen (100 mesh); PTFE gasket; No. 8 silicone stopper.
Cat. No. / Price	09-753-1J / 1300.07

Care and Cleaning

New fritted glass filtration bases should be washed with hot hydrochloric acid and then rinsed several times with distilled water. The acid wash and water rinse should be pulled through the fritted disc with a good vacuum. Each successive water rinse should only be started after the preceding one has been completely pulled through. This procedure will remove loose foreign matter such as dust.

Many precipitates can be removed from the fritted disc by backflushing. Connect the stem of the filtration base to a water tap using rubber tubing and allow water to run backwards through the fritted disc. **WARNING: the water pressure must not exceed 15 lbs./in² (1 kg/cm²).**

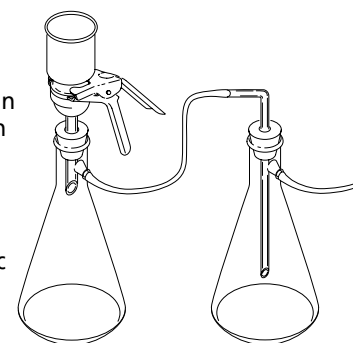
When working with biological compounds, sulfuric acid with a nitrate or perchloric addition should be used as the cleaning agent. Dichromate sulfuric acid used as a cleaning agent should be avoided to prevent the reduction formation of trivalent chromium compounds. Hot, concentrated phosphoric acid and hot alkaline solutions attack the glass surface and therefore are not suitable for cleaning.

Stainless steel screens can be washed with a laboratory detergent with an initial rinse with tap water and a final rinse with distilled water. Hydrochloric acid should not be used for cleaning as this can promote corrosion of the stainless steel.

Aluminum clamps have been hard anodized to prevent corrosion. A wash with a good laboratory detergent followed by an initial rinse with tap water and a final rinse with distilled water should be adequate.

Operating Pressure

The fritted glassware in this brochure has been designed for vacuum filtration. If used for pressure work, the **MAXIMUM** pressure differential on the disc should not exceed 15 lbs./in.² (1 kg/cm²).



Thermal Limitations / Sterilizing

Fritted filtration bases should not be subjected to excessive temperature changes or to a direct flame. If a filtration base needs to be dried or sterilized, it should be placed in a cold oven or autoclave. The heating rate should not exceed 20° C/minute. This prevents internal strain from developing in the glassware. The strain is caused by excessive temperature differences between the fritted disc and its surrounding glass, and can lead to fracturing of the filtration base.

47mm All-Glass Microanalysis Apparatus

Connection: 40/35 for 1L flask or manifold.

Filter Type: Glass Microanalysis, 47mm.

Applications: Analyzing liquids for particulate or biological contamination; water/wastewater analysis, pharmaceutical QC, yeast and mold detection, preparing ultra-clean or sterile filtrates and organic solvent purification.

Filter Size: 47mm for use with 47mm membranes.

Sterilization: Autoclavable†.

Filtration Area: 9.6cm².

Graduated Volume: 300mL.

Prefilter Size: 35mm.

Maximum Capacity: 1000mL.

Components: Borosilicate glass funnel (graduated 100 to 300mL in 25mL); 40/35 base with integral fritted glass support; anodized aluminum spring clamp; 1 Liter 40/35 flask.

Cat. No.	Each
09-753-102	300.02

Replacement Parts and Accessories

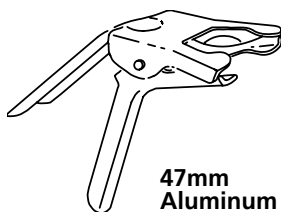
Description	For Use with Cat. No.	Cat. No.	Each
Borosilicate Glass Funnels			
100mL, 25 mm	09-753A	09-753-3	64.22
100mL, 14/20	09-753C	09-753-7	77.28
13mL / 14/20 adapter / funnel	09-753C	09-753-8	47.26
15mL, graduated, 25 mm	09-753E, 09-753G	09-753-13	56.99
150mL, 25 mm, accessory	09-753E, 09-753G	09-753-19	121.33
300mL, graduated, 25 mm, accessory	09-753E, 09-753G	09-753-20	121.68
300mL graduated, 47 mm	09-753-1A, 09-753-1C, 09-753-1G, 09-753-102	09-753-26A	64.88
300mL graduated, PTFE, 47 mm	09-753-1E	09-753-26C	93.51
100mL grad., straight wall, accessory	09-753-1A, 09-753-1C	09-753-34A	94.52
500mL graduated, beveled, accessory	09-753-1A, 09-753-1C	09-753-34B	119.91
1L graduated	09-753-2	09-753-26B	229.56
Anodized Aluminum Clamps			
For 25mm models	09-753A, 09-753C, 09-753E, 09-753G	09-753-4	33.08
For 47mm models	09-753-1A, 09-753-1C, 09-753-1E, 09-753-1G	09-753-31A	27.37
For 90mm model	09-753-2	09-753-31B	104.23
Stainless-Steel Support Screens			
25mm	09-753G	09-753-15	88.81
47	09-753-1J, 09-753-1C, 09-753-1E	09-753-29A	54.54
PTFE Gaskets			
25mm	09-753G	09-753-18	3.19
47	09-753-1J, 09-753-1C	09-753-30A	3.28
47 (flange)	09-753-1E	09-753-30B	36.66
Borosilicate Glass Bases			
25mm w/Fritted Support	09-753A, 09-753E, 09-753C	09-753-14	98.96
25mm for SS Support	09-753G	09-753-17	79.76
47mm Glass Support	09-753-1A	09-753-27A	93.05
47mm for SS Support	09-753-1C	09-753-28A	85.25
47mm for PTFE Gasket	09-753-1E	09-753-28C	130.35
47mm All-Glass Support	09-753-102	09-753-103	163.21
90mm with Fritted Support	09-753-2	09-753-27B	360.37
Silicone Rubber Stoppers			
No. 5, perforated	09-753A, 09-753C, 09-753E, 09-753G	09-753-6	7.79
No. 8, perforated	09-753-1J, 09-753-1A, 09-753-1C, 09-753-1E, 09-753-1G, 09-753-2	09-753-32A	7.30
No. 8B; adapts stem to standard manifold	09-753A, 09-753C, 09-753E, 09-753G	09-753-9	24.52
Filtration Flasks			
125mL	09-753A, 09-753C, 09-753E, 09-753G	09-753-100	26.36
1000mL	09-753-1A, 09-753-1C, 09-753-1E, 09-753-1G, 09-753-1J, 09-753-2	09-753101	47.00
1000mL (40/35)	09-753-102	09-753-104	102.36



300mL Graduated Funnel



Stainless-Steel Support Screen



47mm Aluminum Clamp



PTFE Gasket



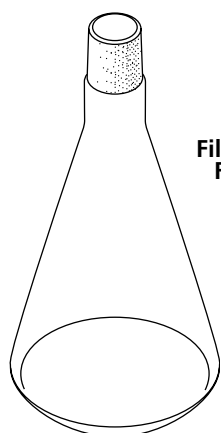
90mm Fritted Borosilicate Glass Base



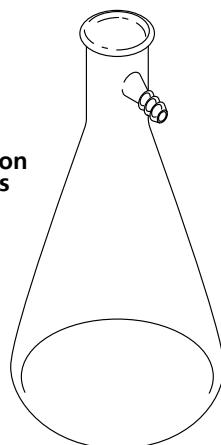
47mm All-Glass Support Base



Silicone Rubber Stopper



Filtration Flasks



Four Valve 47mm Solvent Safety Cap System

A safe, economical alternative for filtration, sparging / degassing, storage and delivery of HPLC mobile phases contained in solvent bottles. It allows the direct delivery and or filtration of mobile phases from 4L solvent bottles to HPLC systems. Uses standard 47mm diameter filter membranes. Cap body is glass-filled PTFE. Valves are ETFE, and O-rings are VITON®. Supplied complete with coarse porosity glass support frit, GL-45 PBT solvent bottle adapter, 1/4-28 fittings and ferrules, and 10' of 1/8" FEP TEFLON® tubing. Glass-ware not included.

- 1 Increase safety and efficiency by allowing direct access to GL-45 solvent bottles from HPLC systems
– PBT solvent bottle adapter included
- 2 Choice of Four Valve, Three Valve and Three Hole configurations

Fisher Cat. No.	Description	Each
03-342-12	Four Valve Solvent Safety Cap System	719.41

Accessories - Choose either a Glass Funnel or the Solvent Pickup Adapter

09-753-34A	Glass Funnel, 100 mL	94.52
09-753-26A	Glass Funnel, 300 mL	64.88
09-753-34B	Glass Funnel, 500 mL	119.81
K953906-0047	Solvent Pickup Adapter, 3ft of 1/4" FEP TEFLON® Tubing	140.98

Accessories - Choose one of these filters

K953916-3002	Combination Inlet/Spurge Filter, 2µm, PEEK	34.33
K953916-0000	Solvent Inlet/Spurge Filter, SS, for 1/8" O.D. Tubing (2 Req'd)	37.68

Three Valve Solvent Safety Cap System

Provides on-off control for sparging, filtering and venting HPLC mobile phases contained in solvent bottles. Helium-tight valves maintain the mobile phase in a sealed environment between runs. It allows the direct delivery and or filtration of mobile phases from 4L solvent bottles to HPLC systems. Valve ports and connecting threads on the bottom of the cap use 1/4-28 fittings. Cap body is PTFE. Valves are ETFE, and O-rings are VITON®. Supplied complete with GL-45 PBT solvent bottle adapter, 1/4-28 fittings and ferrules, and 10' of 1/8" FEP TEFLON® tubing.

Three Hole Solvent Safety Cap System

An economical system for sparging, filtering and venting HPLC mobile phases contained in solvent bottles. The threaded connections on the top of the cap are standard 1/4-28 flangless fittings. It allows the direct delivery and or filtration of mobile phases from 4L solvent bottles to HPLC systems. Cap body is PTFE. Plugs and nuts are ETFE. Supplied complete with 1/4-28 fittings and ferrules, and 10' of 1/8" FEP TEFLON® tubing.

Fisher Cat. No.	Description	Each
03-342-11	Three Valve Solvent Safety Cap System	426.29
03-342-10	Three Hole Solvent Safety Cap System	303.33

Accessories - Choose one of these filters

K953916-3002	Combination Inlet/Spurge Filter, 2µm, PEEK	34.33
K953916-0000	Solvent Inlet/Spurge Filter, SS, for 1/8" O.D. Tubing (2 Req'd)	37.68



Shown with Accessory Glass Funnel

Four Valve Cap System

Three Valve Cap System

Three Hole Cap System

Combination Inlet / Spurge Filter

Combination inlet spurge / filter in a single, convenient device. The design prevents sparging bubbles from entering the mobile phase stream while allowing the pump to draw all but a few milliliters of solvent from the reservoir or bottle. All PEEK construction is ideal for virtually all mobile phases. Supplied with 2µm porosity frits. Use with 1/8" O.D. tubing.



Fisherbrand® Borosilicate Glass Disposable Serological Pipets

- Individually wrapped, multipacks, or bulk packs
- Color-coded packaging(1)
- Shorter lengths ideal for use in hoods
- Bidirectional scales

Available sterile or nonsterile, plugged or nonplugged. Regular-tipped pipets have long, slender, tapered tips to speed pipetting.

Short-length pipets (8 11/16Nlong [22cm] for Cat. Nos. 13-678-36A, B, and C; 9 3/4N[24.8cm] for 13-678-36D; and 13 9/16N[34.4cm] for 13-678-36E) are perfect for tissue culture work or procedures performed under fume hoods or in confined areas. Wide-tipped pipets accommodate viscous materials and suspensions— minimizing clogging. Calibrated “To Deliver/Blow Out,” these chemically inert pipets have negative graduations as well as bidirectional scales. Blue markings are crisp and easy to read. Regular-tip styles have volume tolerances that comply with ASTM E 714.

Packaging meets requirements of small-, medium-, or large-volume use. Individually wrapped pipets, ideal for small-volume use requiring sterility, come in transparent plastic/paper wrappers for easy identification and tear-through, and are further overpacked in handy shelf container/dispensers. Multipack with resealable flap for larger volume use permits easy access to several pipets at a time without contaminating unused pipets. Individually wrapped and multipacked pipets come sterile and plugged; nonsterile, non-plugged bulk-packed pipets are also available. Color-coded packaging on all pipets, except bulk packs, allows easy identification by size using ISO standard colors. Outer packaging is recyclable.



Serological Pipets with Regular Tip, Standard Length

Capac. mL	Subdiv. mL	Neg. Grads. mL	Tol. mL	Pkg. Color Code ¹	Sterile and Plugged						Nonsterile and Nonplugged													
					Individually Wrapped			Multipack ²			Canister Pack ³			Bulk Pack ¹										
					Inner Pack Qty.	Cat. No.	Case of	Inner Pack Qty.	Cat. No.	Case of	Inner Pack Qty.	Cat. No.	Case of	Inner Pack Qty.	Cat. No.	Case of								
0.5	1/100	2/10	±0.013	Yellow	125	13-678-27A	500/188.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
0.5	5/100	2/10	±0.013	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1	1/10	2/10	±0.02	Red	200	13-678-27B	1000/284.41	250	13-678-25A	1000/278.07	—	—	—	—	—	—	—	—	—	—	—	—	—	
1	1/100	2/10	±0.02	Yellow	200	13-678-27C	1000/274.86	250	13-678-25B	1000/239.84	50	13-678-26A	500/144.32	250	13-678-31F	1000/237.72	—	—	—	—	—	—	—	—
2	1/100	2/10	±0.04	White	125	13-678-27D	500/165.56	250	13-678-25C	500/140.08	50	13-678-26B	500/165.57	250	13-678-31G	500/148.57	—	—	—	—	—	—	—	—
5	1/10	1	±0.15	Blue	100	13-678-27E	500/224.99	250	13-678-25D	500/179.35	50	13-678-26C	500/196.34	100	13-678-31H	500/185.71	—	—	—	—	—	—	—	—
10	1/10	2	±0.30	Orange	110	13-678-27F	500/230.29	250	13-678-25E	500/241.95	50	13-678-26E	500/265.31	100	13-678-31J	500/227.10	—	—	—	—	—	—	—	—

Serological Pipets with Regular Tip, Short Length

Capac. mL	Subdiv. mL	Neg. Grads. mL	Tol. mL	Pkg. Color Code	Sterile, Plugged, Individually Wrapped		
					Inner Pack Qty.	Cat. No.	Case of
1	1/100	5/10	±0.04	Yellow	200	13-678-36A	400/135.84
5	1/10	3	±0.2	Blue	100	13-678-36B	200/154.93
10	2/10	4	±0.4	Orange	100	13-678-36C	200/178.28
25	2/10	5	±0.5	Green	100	13-678-36D	200/228.18
50	5/10	10	±1.5	Purple	25	13-678-36E	50/226.05

Serological Pipets with Wide Tip, Standard Length

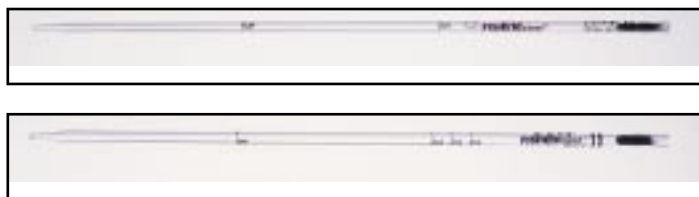
Capac. mL	Subdiv. mL	Neg. Grads. mL	Tol. mL	Pkg. Color Code	Sterile, Plugged, Mutipacked ²		
					Cat. No.	Case of 400	
5	1/10	1	±0.02	Blue	13-678-35A	201.63	
10	2/10	2	±0.4	Orange	13-678-35B	226.05	

(1)Bulk-packaged pipets (regular tip, nonsterile and nonplugged) are not color coded.
(2)Vented multipack. (3)Bidirectional scales.

Fisherbrand® Milk Bacteriological Pipets

Meet APHA requirements for making milk dilutions. 1.1mL size also used for milk phosphatase test. Calibrated “To Deliver.”

Capacity	Graduations	Tolerance	Cat. No.	Case of 1000
Sterile Disposable Borosilicate Glass - packed in bags of 250				
1.1mL	0.5, 1.0, 1.1mL	±0.025mL	12-724	306.72
2.2	1.0, 2.0, 2.1, 2.2	±0.025	12-724-1	319.42



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Fisherbrand® Borosilicate Glass Tubes With Polypropylene Screw Cap

Round bottom. Get the chemical stability and biological inertness of hard, borosilicate glass for the price of disposable tubes. Start clean; no lost samples due to contaminated, cloudy or scratched tubes. Avoid pH problems caused by soft glass. Ideal for tissue culture, bacteriology, clinical chemistry, blood typing, and cross-matching procedures. Comes with natural linerless polypropylene screw cap and marking spot. Packed in trays of 250 or 500.



O.D. x L	No. Per Tray	Cat. No.	Case of
13 x 100mm	500	14-962-26D	1000/265.50
16 x 100	250	14-962-26F	1000/280.39
16 x 125	250	14-962-26G	1000/295.25
16 x 150	250	14-962-26H	1000/324.30
20 x 125	250	14-962-26K	500/238.90
20 x 150	250	14-962-26M	500/266.19

With Threaded End

Borosilicate glass. Round bottom. 13 O.D. x 100mm long tubes supplied in shrink-wrapped shelf trays of 500; all other sizes come in trays of 250. Without cap; order separately below. Available with or without marking spot.



O.D. x L	GPI Thread	Cat. No.	Case of
With marking spot			
13 x 100mm	13-415	14-959-35C	1000/237.25
16 x 100	15-415	14-959-35AA	1000/260.31
16 x 125	15-415	14-959-35A	1000/259.20
16 x 150	15-415	14-959-35B	1000/277.89
20 x 125	18-415	14-959-37A	500/190.89
20 x 150	18-415	14-959-37C	500/226.60
Without marking spot			
13 x 100mm	13-415	14-957-76A	1000/217.62
16 x 125	15-415	14-957-76B	1000/254.92
16 x 150	15-415	14-957-76C	1000/282.72
20 x 125	18-415	14-957-76D	500/188.36
20 x 150	18-415	14-957-76E	500/221.89

Fisherbrand® Caps

Autoclavable. Phenolic caps have rubber liners; polypropylene cap is linerless.



GPI Thread	Material	Cat. No.	Case of 1000
13-415	Phenolic	14-957-82A	85.26
15-415	Phenolic	14-959-36A	98.36
15-415	Polypropylene	14-959-36B	63.40
18-415	Phenolic	14-957-82E	120.27

Fisherbrand® Tubes with Phenolic Screw Cap

High-quality borosilicate glass tubes packed in shrink-wrapped, lint-free trays of 250 or 500. All have phenolic screw cap with white rubber liner packed in same carton. Tubes have convenient marking spot.



O.D. x L mm	GPI Thread	No. Per Tray	Cat. No.	Case of
13 x 100	13-415	500	14-959-25A	1000/313.66
16 x 100	15-415	250	14-959-25B	1000/311.90
16 x 125	15-415	250	14-959-25C	1000/335.09
16 x 150	15-415	250	14-959-25D	1000/352.22
20 x 125	18-415	250	14-959-25E	500/262.19
20 x 150	18-415	250	14-959-25F	500/289.59

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Fisherbrand® Economical Glass EPA Vials

Unassembled EPA vials ideal for use in water sampling according to the revised U.S. EPA 40CFR136 and 40CFR141 specifications. Available in 20 and 40mL sizes, clear and amber Type 1 borosilicate glass. White polypropylene open-top closures with 0.125" TFE/silicone septa.



Color	Capacity	O.D. x H	Cat. No.	Case of 72
Clear	20mL	28 x 57mm	03-340-121	108.09
	40mL	27 x 95	03-340-119	132.63
Amber	20mL	28 x 57mm	03-340-122	143.89
	40mL	27 x 95	03-340-120	184.64

EnviroWare* Borosilicate Glass EPA Vials

Designed for collecting and storing water samples. All EnviroWare vials comply with guidelines for establishing test procedures for the analyzing of pollutants (Ref. U.S. EPA Methods 601, 602, 603, and 624). Manufactured from Type 1, Class A or amber 203 borosilicate glass. Assembled EPA vials meet the revised U.S. EPA 40CFR136 and 40CFR141 specifications for discrete water sampling. Vials feature white open-top polypropylene closures and 0.005NPTFE/0.120Nsilicone rubber septa. Thread size, 24-400 GPI. Replacement caps and septa sold below.



Assembled Vials.

Capacity	O.D. x H	Cat. No.	Pack of 72	Case of 6 Pk.
Clear				
40mL	28 x 98mm	03-339-14A	203.39	841.61
30	28 x 73	03-339-14D	132.92	745.34
20	28 x 60	03-339-14C	135.68	561.45
Amber				
40mL	28 x 98mm	03-339-14B	99.48	588.00
20	28 x 60	03-339-14	161.30	667.43

Replacement Caps. Polypropylene with PTFE liner.

Thread	Cat. No.	Case of 144
24-400	03-340-7L	17.13

Replacement Septa. 0.005NPTFE/0.120Nsilicone.

Cat. No.	Case of 144
03-340-4H	84.19

Fisherbrand® Sample Vials with Rubber-Lined Closures

General-purpose vials. Vials come with autoclavable black phenolic closures that have white rubber liners. Closures are packaged separately from vials.



Type 1, Class A, Clear, Borosilicate Glass

Capacity	O.D. x H	GPI Thread Finish	Cat. No.	Pack of 144	Case of
1/2dr. (1.8mL)	12 x 35mm	8-425	03-339-25A	68.58	16 Pk./756.80
1(3.7)	15 x 45	13-425	03-339-25B	58.96	16 Pk./650.62
2(7.4)	17 x 60	15-425	03-339-25C	71.63	12 Pk./592.78
3(11.1)	19 x 65	15-425	03-339-25D	73.05	8Pk./403.01
4(14.8)	21 x 70	18-400	03-339-25E	85.10	8Pk./469.50
6(22.2)	23 x 85	20-400	03-339-25F	108.28	6Pk./448.05

Type 1, Class B, Amber, Borosilicate Glass.

Capacity	O.D. x H	GPI Thread Finish	Cat. No.	Pack of 144	Case of
1/2dr. (1.8mL)	12 x 35mm	8-425	03-339-23A	77.42	16 Pk./854.33
1(3.7)	15 x 45	13-425	03-339-23B	66.83	16 Pk./737.46
2(7.4)	17 x 60	15-425	03-339-23C	74.73	12 Pk./618.49
4(14.8)	21 x 70	18-400	03-339-23D	92.09	8Pk./508.09
8(29.6)	25 x 95	22-400	03-339-23E	114.62	4Pk./316.20

Fisherbrand® Clear Glass Threaded Vi- als with Polyvinyl- Faced Closures

General-purpose vials. Made from Type 1, Class B borosilicate glass. Black phenolic screw-top closures have polyvinyl-faced pulp liners.



With closures packed separately.

Capacity	O.D. x H	GPI Thread Finish	Cat. No.	Pack of 144	Case of
1/2dr. (1.8mL)	12 x 35mm	8-425	03-339-21A	58.96	16 Pk./650.63
1(3.7)	15 x 45	13-425	03-339-21B	48.67	16 Pk./537.00
1 1/2(5.5)	16 x 50	13-425	03-339-21C	52.46	16 Pk./578.84
2(7.4)	17 x 60	15-425	03-339-21D	55.31	12 Pk./457.70
3(11.1)	19 x 65	15-425	03-339-21E	60.23	8Pk./332.31
4(14.8)	21 x 70	18-400	03-339-21F	69.75	8Pk./384.81
4(14.8)	28 x 57	24-400	03-339-21J	84.97	3Pk./175.80
6(22.2)	23 x 85	20-400	03-339-21G	74.09	6Pk./306.58
6(22.2)	28 x 70	24-400	03-339-21K	90.67	3Pk./187.59
8(29.6)	25 x 95	22-400	03-339-21H	80.05	4Pk./220.82
9 1/2(35.1)	28 x 95	24-400	03-339-21M	97.94	3Pk./202.62
11 (40.7)	28 x 108	24-400	03-339-21N	104.13	3Pk./215.44

With closures attached to seal out contamination.

1/2dr. (1.8mL)	12 x 35mm	8-425	03-338AA	144/86.74	36 Pk./2153.54
1(3.7)	15 x 45	13-425	03-338A	144/81.79	16 Pk./902.56
1 1/2(5.5)	16 x 50	13-425	03-338B	144/84.97	18 Pk./1054.80
2(7.4)	17 x 60	15-425	03-338C	144/86.65	12 Pk./717.11
3(11.1)	19 x 65	15-425	03-338D	144/100.38	12 Pk./830.72
4(14.8)	21 x 70	18-400	03-338F	144/104.71	8Pk./577.73
4(14.8)	28 x 57	24-400	03-338E	72/69.16	10 Pk./476.99
6(22.2)	23 x 85	20-400	03-338H	144/129.01	6Pk./533.82
6(22.2)	28 x 70	24-400	03-338G	72/80.82	8Pk./445.90
8(29.6)	25 x 95	22-400	03-338J	72/95.78	8Pk./528.45
9 1/2(35.1)	28 x 95	24-400	03-338K	72/88.85	6Pk./367.66
11 (40.7)	28 x 108	24-400	03-338L	72/101.28	6Pk./419.08

**Fisherbrand®
Class B Clear Glass
Threaded Vials with
Rubber-Lined Closures**

General-purpose vials. Made from Type 1, Class B borosilicate glass. Will not alter pH of sample. Screw-top closures have white rubber liners. Autoclavable. Closures are packaged separately.



Capacity	O.D. x H	GPI Thread Finish	Cat. No.	Pack of 144	Case of
1/2dr. (1.8mL)	12 x 35mm	8-425	03-339-22A	67.32	16 Pk./742.81
1(3.7)	15 x 45	13-425	03-339-22B	54.60	16 Pk./602.44
1 1/2(5.5)	16 x 50	13-425	03-339-22C	79.07	16 Pk./872.54
2(7.4)	17 x 60	15-425	03-339-22D	62.30	12 Pk./515.60
3(11.1)	19 x 65	15-425	03-339-22E	64.31	8Pk./354.80
4(14.8)	21 x 70	18-400	03-339-22F	78.30	8Pk./431.97
4(14.8)	28 x 57	24-400	03-339-22J	108.80	3Pk./225.11
6(22.2)	23 x 85	20-400	03-339-22G	87.81	6Pk./363.37
6(22.2)	28 x 70	24-400	03-339-22K	111.39	3Pk./230.46
8(29.6)	25 x 95	22-400	03-339-22H	95.98	4Pk./264.76
9 1/2(35.1)	28 x 95	24-400	03-339-22M	116.57	3Pk./241.17
11 (40.7)	28 x 108	24-400	03-339-22N	121.23	3Pk./250.82

**Fisherbrand®
Glass Shell Vials**

Straight-sided shell vials. Ideal for storing dry products. Good visibility of contents. Made from Type 1, N-51A borosilicate glass.

Vials without closures use corks.



Capacity	O.D. x H	Cat. No.	Pack of 144	Case of
Bulk pack with Titesal® closures				
1/2dr. (1.8mL)	12 x 35mm	03-339-26A	38.85	16 Pk./428.73
1(3.7)	15 x 45	03-339-26B	36.81	16 Pk./406.20
2(7.4)	19 x 51	03-339-26C	44.94	12 Pk./371.95
3(11.1)	19 x 65	03-339-26D	61.59	8Pk./339.82
7(25.9)	29 x 65	03-339-26F	102.59	3Pk./212.25
10 (37.0)	29 x 80	03-339-26G	105.69	3Pk./218.67
12 (44.4)	29 x 94	03-339-26H	108.28	3Pk./224.03
Lab pack without closures				
1/4dr. (0.9mL)	9x 30mm	03-339-30A	31.09	10 Pk./214.40
1/2(1.8)	12 x 35	03-339-30B	25.03	10 Pk./172.60
1(3.7)	15 x 45	03-339-30C	30.62	10 Pk./211.14
1 1/2(5.5)	15 x 50	03-339-30D	53.62	6Pk./221.89
2(7.4)	17 x 60	03-339-30E	64.25	6Pk./265.85
3(11.1)	19 x 65	03-339-30F	51.82	6Pk./214.42
4(14.8)	21 x 70	03-339-30G	55.57	4Pk./153.29
6(22.2)	23 x 85	03-339-30H	64.50	4Pk./177.94
8(29.6)	25 x 95	03-339-30J	106.09	4Pk./292.67

**Fisherbrand®
Glass Tooled-Neck Vials with Polyethylene Closures**

General-purpose vials. Made from Type 1, N-51A borosilicate glass. Tooled necks ensure accurate fit with closures.

The 1 and 2 dram sizes come with open-bottom closures; all other sizes come with closed-bottom, two-piece closures. Closures are packaged separately.



Capacity	O.D. x H	Cat. No.	Pack of 144	Case of
1dr. (3.7mL)	15 x 45mm	03-339-27A	47.01	16 Pk./518.78
2(7.4)	19 x 48	03-339-27B	53.31	10 Pk./367.64
3(11.1)	21 x 50	03-339-27C	60.81	8Pk./335.51
4(14.8)	25 x 52	03-339-27D	70.72	6Pk./292.64
5(18.5)	27 x 55	03-339-27E	79.65	4Pk./219.74
7(25.9)	29 x 65	03-339-27F	84.44	3Pk./174.71

**Fisherbrand®
20mL Borosilicate Glass
Scintillation Vials**

Potassium-free glass provides consistently low activity counts and excellent light transmission. Fit all common counters. Caps fit GPI 22-400 thread finish, and are suitable for marking. Vials with caps attached are shrink-wrapped in five trays of 100 per case. When caps are separate, vials are shrink-wrapped in five trays of 100 per case, and caps are packed in five polybags of 100 caps each. O.D. x H (with cap): 1 1/8x 2 3/8N (28 x 61mm).



Cap Style	Packaging	Cat. No.	Case of 500
White urea			
Cork-backed metal foil liner	Caps attached	03-337-5	195.10
Cone-shaped plastic liner	Caps separate	03-337-7	261.54
White polypropylene			
Pulp-backed metal foil liner	Caps attached	03-337-4	177.94
	Caps separate	03-337-15	185.44
White polyethylene			
No liner	Caps separate	03-337-14	171.49

**Fisherbrand®
7mL Borosilicate Glass
Scintillation Vial**

Smaller capacity vial saves in solvent use and disposal. White plastic screw cap with cork-backed metal foil liner. Packed in five shrink-wrapped trays of 200 vials, five polybags of 200 caps.



O.D. x H	GPI Thread	Cat. No.	Case of 1000
17 x 54mm	15-425	03-337-26	277.60

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