



High Volume Solvent Delivery Systems

The eco-friendly option for your laboratory

FisherPak™ | BasicPak | NowPak II | NowPak I | DelPak

Reliability.
Purity.
Certainty.



High Volume Solvent Delivery Systems

The eco-friendly option for your laboratory

Fisher Scientific offers the following systems for your High Volume Solvent needs.

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High Volume Solvent Delivery Systems offer environmentally friendly solvent handling solutions for virtually unlimited applications, enhancing safety and improving productivity within your lab.

Safety and Convenience

High Volume Solvent Delivery Systems increase lab efficiency while reducing lab-operating costs by eliminating:

- Repeated solvent testing
- Multiple lots of material
- Bottle rinsing
- Disposal costs

Environmentally Friendly

- Reduce the amount of solid waste generated in your laboratory
(A single reusable 200L FisherPak™ container replaces approximately 50 four-liter bottles and packing material)
- Minimize the release of flammable or toxic solvent liquids and vapors
- Eliminate bottle rinsing—Fisher Scientific cleans and refills empty containers

Enhanced Solvent Safety

High Volume Solvent Delivery Systems incorporate safety features to protect the lab and the environment by offering a unique combination of mechanical and manual controls to prevent unwanted solvent flow. The bottle-free, closed system eliminates the potential for glass bottle breakage and makes the risk of spills and exposure to vapors negligible.

Virtually Unlimited Applications

- High-performance liquid chromatography (HPLC)
- Sample preparation for spectroscopic analysis
- Process synthesis, extractions, preparative chromatography, and high-volume gas chromatography sample preparation

Try our Waste Minimization Calculator or for more information visit: www.fishersci.com/fisherpak



FisherPak™

The FisherPak™ Solvent Delivery System is the ideal choice for handling large quantities of high-purity solvents.

From lab to production scale, the FisherPak solution delivers solvents with enhanced safety and improved productivity. The Fisher Chemical FisherPak™ is a refillable dispensing system that protects solvent purity and reduces solvent spills. The reusable 316 stainless-steel container is pressurized with an inert gas to deliver the solvent, so the system remains closed and the solvent remains pure.

Protecting Purity

FisherPak™ Solvent Delivery System protects solvent purity throughout shipment, delivery, installation and dispensing.

- Cleaned and pressure tested Type 316 stainless-steel containers
- Stainless-steel cover
- Tamper-evident closure
- Closed system eliminates contamination of solvent during dispensing
- Delivered with a LDPE (Low Density Polyethylene) sleeve to maintain dust free connection components ensuring high purity solvents

Enhancing Safety

A unique combination of mechanical and manual controls protects the lab and the environment.

- Bottle-free, closed system eliminates glass breakage and reduces the risk of spills and exposure to vapors
- Unique horizontal vapor venting for superior fire safety
- Additional secondary safety feature for pressure relief incorporated into the FPakgasket prevents pressure build up beyond 15psi
- Available secondary auto shut-off valves can be incorporated into the quick connect hardware to help eliminate possibility of spills
- Color-coded connectors help to prevent improper hookups (optional)
- Meets Department of Transportation and NFPA 30 standards

Key Features

- Custom solvents blended and/or tested to your specific requirements
- Customizable to your needs with our extensive list of accessories
- ASME approved containers available for operating pressures over 15psi
- Integrated fork channels are available for larger sizes

Available Sizes: 19L, 28L, 50L, 115L, 200L, 1350L

FisherPak™ horizontal venting system recognized by NFPA as a safer alternative to solvent dispensing systems with vertical venting configurations.
NFPA—National Fire Protection Association

Improving Productivity

FisherPak™ Solvent Delivery System increases lab efficiency while reducing lab operating costs by:

- Reducing solvent testing
- Eliminating bottle rinsing
- Cutting disposal costs

Promoting Environmentally Friendly Practices

Using the FisherPak system will reduce the amount of solid waste generated in your laboratory and keep it out of the environment.

- A reusable 200L FisherPak™ container replaces 50 four liter bottles and packing material
- Flammable or toxic solvent liquids and vapors are not released into the surrounding air

Type 316 Stainless Steel, also known as surgical grade steel, better resists common forms of corrosion compared to type 304 stainless steel used in other returnable drums

Internal electropolishing decreases any micro-trace levels of solvent-steel interaction

External electropolishing enhances the corrosion resistance



Specifications

FisherPak™ Dimensions

Size	Height (Tap to Sump)	Height (Overall)	Diameter (Outer)	Tare Wt. (approx. kg)	Overflow Capacity
19L	15.7"	22.2"	11.10"	10.8	20.0L
50L	27.8"	28.8"	16.00"	19.5	56.0L
115L	23.4"	30.5"	21.80"	32.0*	117.4L
200L	39.8"	47.0"	21.80"	41.6*	208.0L
1350L***	68.9"	71.7"	47.24**	360.0	1441.0L

* Weights of 200L and 115L drums with ID numbers above 800 will be higher. (200L = 45.7kg)

** Footprint of the 1350L is 47" x 47". Diameter of the IBC is less than the base width.

***The 1350L IBC is made from high-grade Type 304 stainless steel and internally electropolished.




Fork Channel Dimensions

Left (front to back)	24"
Width (left to right)	22.375"
Height	4"
Weight	77 lb. (35kg)










FisherPak™ Accessories

The FisherPak™ Solvent Delivery System offers an array of accessories to fit your individual needs.

Image	Part Number	Accessory and Description
	FPAKSOLVKIT	FisherPak™ Solvent Dispensing Kit Consists of three components: QTM4 Compression fitting, TFE braided hose and a grounding clip. Used with all FisherPaks except 19L size, which requires FP19SOLVKIT.
	FP19SOLVKIT	FisherPak™ Solvent Dispensing Kit for 19L FisherPaks Consists of three components: QTM2 Compression fitting, TFE braided hose and a grounding clip. Used ONLY with 19L FisherPaks.
	FPAKGASKIT	FisherPak™ Gas Delivery Kit Consists of four main components: QTM2 Compression fitting, a cross piece, TFE braided hose and a PFA tube. These components are used to connect your inert gas supply to the FisherPak to maintain a positive pressure, assist with product dispensing and help maintain product purity.

FisherPak™ Accessories (contd.)

Image	Part Number	Accessory and Description
	14117V	FisherPak™ Safety Autovalve Safety dispensing valve that automatically shuts off to help eliminate the possibility of spills.
	14118HD	FisherPak™ Heavy-Duty Integrated Forklift Channels These permanently connected and integrated forklift channels for FisherPaks facilitate moving of the containers with forklift equipment.
	FL14117K	Grounding Clip with five feet of wire A safety device used to ground the FisherPak
	FL14103N	Level Cube, 3-Pin with 20 feet of cable A device that, when coupled with the appropriate electronic level sensor, will provide a real-time, digital readout of the volume within the FisherPak.
	14103NX	Level Cube, 5-Pin with Low Level Alarm and 20 feet of cable A device that, when coupled with the appropriate electronic level sensor, will provide a real-time, digital readout of the FisherPak volume and has a visible alarm to notify you of a low solvent level within the FisherPak.
	FL14103U	Electronic Level Sensor, 3-Pin (50L) A device that, when coupled with the appropriate level cube, allows a real-time, digital readout of the volume within the FisherPak.
	14103V	Electronic Level Sensor, 3-Pin (200L) A device that, when coupled with the appropriate level cube, allows a real-time, digital readout of the volume within the FisherPak.

FisherPak™ Accessories (contd.)

Image	Part Number	Accessory and Description
A photograph of a long, thin metal probe with a circular sensor head and a small electronic module attached to the side.	FL14103UX	Electronic Level Sensor, 5-Pin (50L) A device that, when coupled with the appropriate level cube, allows a real-time, digital readout of the volume within the FisherPak.
A photograph of a long, thin metal probe with a circular sensor head and a small electronic module attached to the side.	14103VX	Electronic Level Sensor, 5-Pin (200L) A device that, when coupled with the appropriate level cube, allows a real-time, digital readout of the volume within the FisherPak.
	14117F	PFA Tube 1/4" x 6' A component of the FisherPak gas delivery kit (PFA – Perfluoroalkoxy).
	14117L	TFE Braided Hose 1/4" x 5' A component of the FisherPak gas delivery kit (TFE – Tetrafluoroethylene)
	14117M	TFE Braided Hose 3/8" x 5' A component of the FisherPak solvent dispensing kit (TFE – Tetrafluoroethylene)

Note: All connectors are swagelock compatible. Optional color-coded connections are available to prevent improper hookups.

Each FisherPak™ Solvent Delivery System is configured to meet the unique requirements of the laboratory it serves. A Fisher Scientific Representative will work with you to mutually determine the optimal container fleet size and accessories to assure your needs are met by establishing:

- Types of chemicals required
- Expected annual usage of each chemical
- Other site-specific requirements

Commonly Requested FisherPak™ Solvents and Their Weights

The following is a list of commonly ordered FisherPak™ solvents and their weights. Contact your Fisher Scientific Representative to ask about custom solvents and solutions.

By Gross Fill Weight

Chemical	Density	19L		50L		115L		200L		1350L	
		LB	KG	LB	KG	LB	KG	LB	KG	LB	KG
2-Propanol	0.785	57.1	25.9	129.5	58.8	269.6	122.3	437.9	198.6	3,194.50	1,437.50
Methanol	0.792	57.4	26.0	130.2	59.1	271.2	123.0	440.7	199.9	3,173.00	1,427.90
Acetone	0.788	57.0	25.9	129.9	58.9	270.3	122.6	439.2	199.2	3,173.00	1,427.90
Alcohol	0.782	56.9	25.8	129.2	58.6	268.8	121.9	436.5	198.0	3,158.50	1,421.30
Acetonitrile	0.775	56.7	25.7	128.4	58.3	267.0	121.1	433.4	196.6	3,149.00	1,417.10
Chloroform	1.471	85.8	39.0	205.1	93.1	443.5	201.2	740.3	335.8	5,208.50	2,343.80
Methylene Chloride	1.326	79.7	36.2	189.1	85.8	406.6	184.4	676.1	306.7	4,760.00	2,142.00
Ethyl Acetate	0.902	62.0	28.1	142.4	64.6	299.2	135.7	489.4	222.0	3,500.00	1,575.00
Hexane	0.660	51.8	23.5	115.7	52.5	237.9	107.9	382.7	173.6	2,807.00	1,263.20
Iso-Octane	0.692	53.2	24.1	119.3	54.1	246.0	111.6	396.8	180.0	2,879.00	1,295.60
Petroleum Ether	0.630	50.6	23.0	112.4	51.0	230.3	104.5	369.5	167.6	2,600.00	1,170.00
Toluene	0.866	60.5	27.5	138.4	62.8	290.1	131.6	473.5	214.8	3,381.40	1,521.60
THF	0.889	61.4	27.9	141.0	64.0	296.0	134.3	483.8	219.4	3,467.00	1,560.20
Water	1.000	66.1	30.0	153.2	69.5	324.1	147.0	532.6	241.6	3,800.00	1,710.00

By Net Weight

Chemical	Density	19L		50L		115L		200L		1350L	
		LB	KG	LB	KG	LB	KG	LB	KG	LB	KG
2-Propanol	0.785	32.9	14.9	86.5	39.3	199.0	90.3	346.1	157.0	3,194.50	1,437.50
Methanol	0.792	33.2	15.0	87.2	39.6	200.7	91.0	349.0	158.3	3,173.00	1,427.90
Acetone	0.788	32.8	14.9	86.9	39.4	199.8	90.6	347.4	157.6	3,173.00	1,427.90
Alcohol	0.782	32.7	14.8	86.2	39.1	198.3	89.9	344.8	156.4	3,158.50	1,421.30
Acetonitrile	0.775	32.5	14.7	85.4	38.8	196.5	89.1	341.7	155.0	3,149.00	1,417.10
Chloroform	1.471	61.6	28.0	162.1	73.6	372.9	169.2	648.6	294.2	5,208.50	2,343.80
Methylene Chloride	1.326	55.5	25.2	146.1	66.3	336.1	152.4	584.4	265.1	4,760.00	2,142.00
Ethyl Acetate	0.902	37.8	17.1	99.4	45.1	228.7	103.7	397.7	180.4	3,500.00	1,575.00
Hexane	0.660	27.6	12.5	72.8	33.0	167.3	75.9	291.0	132.0	2,807.00	1,263.20
Iso-Octane	0.692	29.0	13.1	76.3	34.6	175.4	79.6	305.1	138.4	2,879.00	1,295.60
Petroleum Ether	0.630	26.4	12.0	69.4	31.5	159.7	72.5	277.8	126.0	2,600.00	1,170.00
Toluene	0.866	36.3	16.5	95.5	43.3	219.6	99.6	381.8	173.2	3,381.40	1,521.60
THF	0.889	37.2	16.9	98.0	44.5	225.4	102.3	392.1	177.8	3,467.00	1,560.20
Water	1.000	41.9	19.0	110.2	50.0	253.5	115.0	440.9	200.0	3,800.00	1,710.00

Comparing Sizes:



200L FisherPak



1350L IBC

Place your order today!

Fisher Scientific US: 1-800-766-7000 | www.fishersci.com/chemicals

Fisher Scientific Canada: 1-800-234-7437 | www.fishersci.ca/chemicals


BasicPak

The Fisher Chemical BasicPak is a returnable, reusable drum made from high-grade 304 stainless steel. This system is designed to deliver inert gas safely to the drum with 7-15psig without contamination.

Key Features:

- Equipped with Mico-Matic coupling technology
 - Safety pin on dust cap provides tamper evidence
 - Heavy-duty fork channels made of 316 stainless steel are available
- Available Sizes: 19L, 50L, 115L, 200L

Accessories

Part No.	Product Name	Included In Kit
 BASESOLVKIT	Basic Solvent Dispensing Kit	<ul style="list-style-type: none"> • Adapter 1/4" M x 1/4" SW • Mounting Bracket • 724-069 Coupler • Reducing Coupling 1 x 3/4 FNPT • Elbow 3/4" M 3/8" SW • Port Connector 3/8" SW • TFE Braided Hose 3/8" x 5" • Grounding Clip
BASEGASKIT	Basic Gas Delivery Kit	<ul style="list-style-type: none"> • Check Valve 1/4" F-M 1/3# • Female Cross 1/4" NPT • Pressure Relief Valve • Plug Valve 1/4" SW 1/4" M • PFA Tube 1/4" x 6" • Adapter 1/4" M x 1/4" SW • TFE Braided Hose 1/4" x 5"



Ordering Information

Each BasicPak Solvent Delivery System is configured to meet the unique requirements of the laboratory it serves. A Fisher Scientific Representative will work with you to determine the optimal container fleet size and accessories to assure your needs are met by establishing:

- Types of chemicals required
- Expected annual usage of each chemical
- Other site-specific requirements

Commonly Requested BasicPak Solvents

The following is a list of commonly ordered BasicPak Solvents. Please contact your Fisher Scientific Representative for quote and lead time. Other solvent/blends are also available upon request.

Product	Purity Grade	19L	50L	115L	200L
Acetone	ACS Certified	•	•	•	•
Acetone	Electronic	•	•	•	•
Acetonitrile	ACS Certified	•	•	•	•
n-Butyl Acetate	Reagent Grade		•		•
Chloroform	ACS Certified	•	•	•	•
Cyclohexanone	Certified		•		•
N,N-Dimethylformamide	ACS Certified	•	•	•	•
Ethanol, Denatured	Laboratory	•		•	•
Ethyl Acetate	ACS Certified	•	•	•	•
Heptane	Certified		•		•
Hexanes	ACS Certified	•	•	•	•
Hexanes	Certified	•	•	•	•
Methanol	ACS Certified	•	•	•	•
Methanol, Low Water	Laboratory				•
Methyl Ethyl Ketone	Certified	•	•	•	•
Methylene Chloride	ACS Certified	•	•	•	•
Petroleum Ether	ACS Certified	•	•	•	•
2-Propanol	ACS Certified		•	•	•
sec-Butanol	Certified		•		•
Tetrahydrofuran	ACS Certified	•			•
Toluene	ACS Certified	•	•	•	•
Xylenes	ACS Certified	•	•	•	•

NowPak II

The NowPak II precleaned liner technology is offered in a pressurizable, stainless-steel overpack. The system permits ultra-clean chemical dispensing without direct contact of the chemical with the drive gas. Drive gas pressure is applied to the outside of the liner, minimizing gas entrainment or micro-bubble formation. As the fill material is dispensed, the inner liner collapses. After emptying the system, the liner is simply removed and the overpack is ready for insertion of a new, precleaned liner. The overpack, closer, and dip tube are designed for reuse.

Key Features:

- Reusable stainless-steel (304) overpack with 15psi maximum operating pressure
- Pressure or pump dispense connector options
- Fluoropolymer or co-extruded polyethylene liner options
- Breakseal or thread ON/OFF closure options

Available Size: 19L

Ordering Information

Each NowPak II System is configured to meet the unique requirements of the laboratory it serves. A Fisher Scientific Representative will work with you to mutually determine the optimal container fleet size and accessories to assure your needs are met by establishing:

- Types of chemicals required
- Expected annual usage of each chemical
- Other site-specific requirements

The following is a list of commonly ordered NowPak II Solvents. Please contact your Fisher Scientific Representative for quote and lead time. Other solvent/blends are also available upon request.

Cat. No.	Product Description	Size
Acetone	HPLC	19L
Acetonitrile	Optima®	19L
Acetonitrile	HPLC	19L
Ethyl Acetate	HPLC	19L
Heptane	HPLC	19L
Hexane	HPLC	19L
Methanol	Optima	19L
Methanol	HPLC	19L
Methylene Chloride	HPLC	19L
2-Propanol	HPLC	19L
THF	HPLC	19L
Toluene	HPLC	19L

NowPak I

The inner liner of NowPak I is constructed with an inert fluorocarbon polymer that is compatible with all high-purity solvents. The inner liner collapses around the dip tube during dispensing, which prevents air from entering the system. The sealed dispensing options also eliminate introduction of lab impurities into the solvent.

Key Features:

- Six different dispensing options to meet a variety of needs
- Liners are pre-cleaned in a class 10/100 cleanroom environment to provide ultimate purity
- Liner materials have no pigments, adhesives, additives or stabilizers
- Double-containment design enhances safety and meets OSHA guidelines
- HDPE overpack includes a UV-blocking additive

Available size: 19L







Commonly Requested NowPak I Solvents

The following is a list of commonly ordered NowPak I Solvents. Some products below are available for immediate delivery. Please contact your Fisher Scientific Representative for quote and lead time. Other solvent/blends are also available upon request.

Cat. No.	Product Description	Size
A949N1-19	Acetone, HPLC	19L
A998N1-19	Acetonitrile, HPLC	19L
BP1170N1-19	Acetonitrile, Synthesis	19L
E195N1-19	Ethyl Acetate, HPLC	19L
H302N1-19	Hexane, HPLC	19L
A452N1-19	Methanol, HPLC	19L
W5N1-19	Water, HPLC	19L

Common Accessories for NowPak I & II (Available through ATMI)

Image	Accessory and Description
	Pressure Dispense Connector Each connector includes tube fittings for chemical feed and gas pressure lines. It is designed to use with NowPak systems for sealed chemical dispensing.
	Pressure Dispense Connector for Biotech Synthesis Instruments The connector is provided with five feet of tubing for solvent feed and inert gas pressure. The connector includes a relief valve set to exhaust at pressures in excess of 15 psig. It can be used to connect to various biotech synthesis instruments such as: <ul style="list-style-type: none">• DNA synthesizers• Peptide synthesizers• Other equipment using continuous pressure to supply solvent
	Cap Adapter The cap adapter comes with a cap closure and PTFE adapter with a PFA solvent tube fitting.
	Sparging Adapter The sparging adapter consists of a cap closure and a 38 mm thread pattern PTFE adapter

Note: Customer is responsible for chemical compatibility with third party accessories. Please consult ATMI for ordering information and selecting the right accessory for your application.

DelPak

DelPak combines the strength and durability of steel with the chemical compatibility of polyethylene.

Key Features:

- Constructed in FDA-approved high density blow-molded polyethylene liner
- Steel overpack (pail)
- Inner liner bottle has a 2" buttress plug with a 3/4" NPT center reducer plug and handle for easy removal
- Nine-gauge wire handle with plastic grip for carrying

Available in 18L

Ordering Information

Please contact your Fisher Scientific Representative for a quote of the DelPak system with your required solvent. Most solvents/blends are available upon request.





To place an order, contact your local Fisher Scientific office.



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