



SOLSTICE RETURNABLE CONTAINER PROGRAM

NORTH AMERICA





EFFICIENT AND SAFE PACKAGING



Solstice has been committed to innovation in high purity solvents, organic and inorganic chemicals, and custom reagents for analytical applications and scale up production for more than 200 years. This pioneering spirit is still guiding us as we continue to evolve and strive to offer high-quality products and packaging that increase laboratory efficiency, while enhancing safety.

For Chromasolv™ high-purity solvents as well as Burdick & Jackson BioSyn™ DNA/RNA reagents, Solstice offers both common bottles, cans and drums as well as innovative returnable containers that maintain purity and reduce packaging waste. Customer-dedicated containers provide an environmentally responsible way to enhance lab safety and convenience.

Dispensing from a fully sealed, break-resistant system reduces employee exposure and increases shelf life by maintaining purity.

FEATURES AND BENEFITS



Increase instrument and production run times



Reduce analysis and process contamination

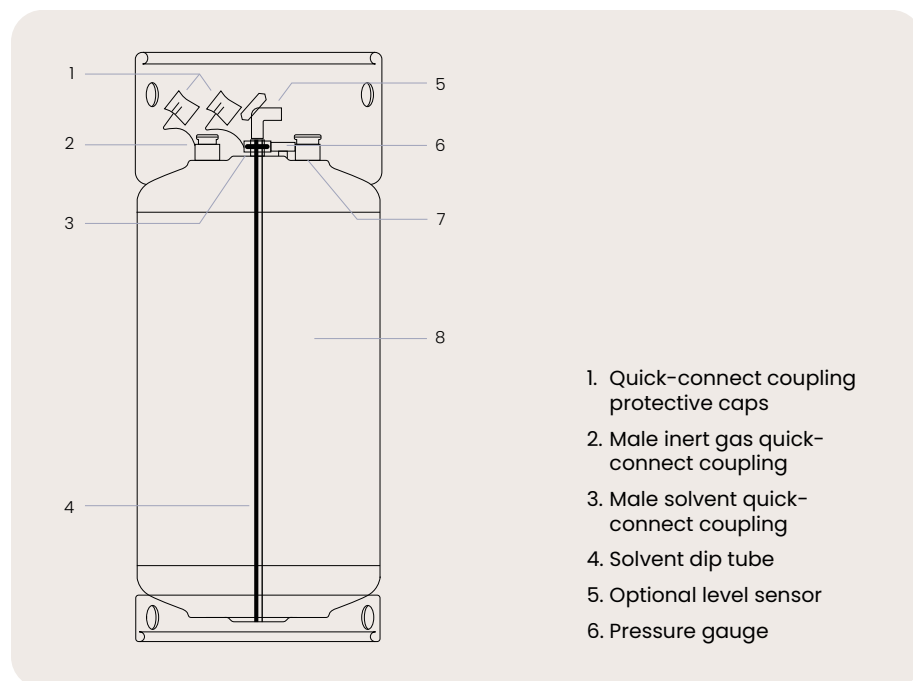


Eliminate packaging waste



Environmentally sustainable

SSPDS CONTAINER DIAGRAM

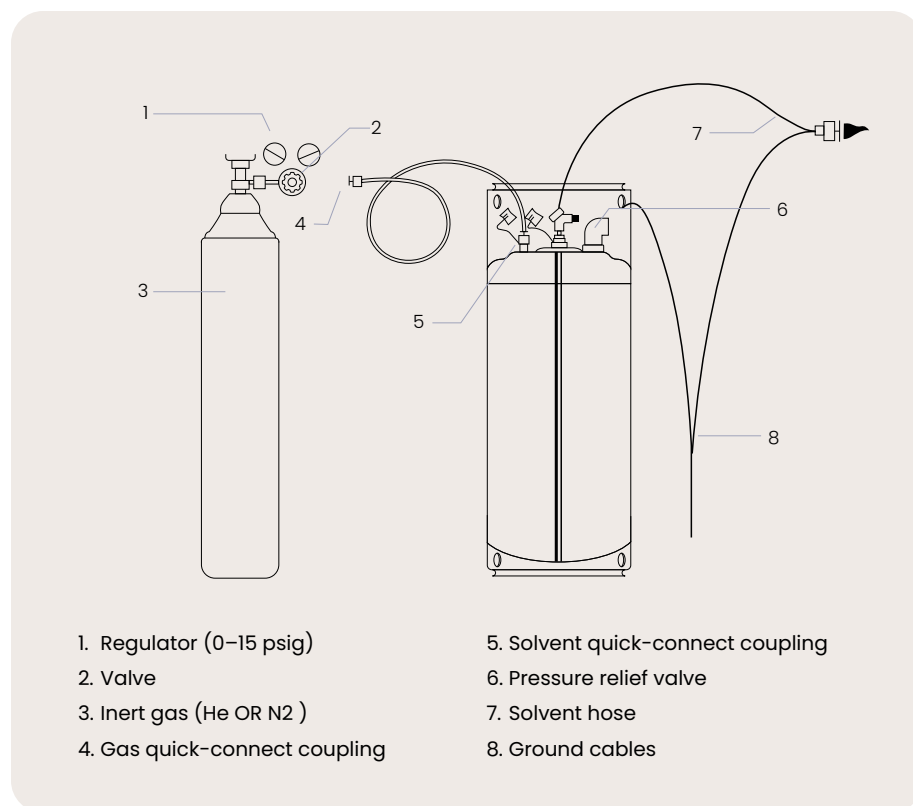


STAINLESS STEEL PRESSURE DISPENSE SYSTEM (SSPDS) CONTAINER

The Stainless-Steel Pressure Dispense System (SSPDS) container is engineered for shipping, storing and dispensing high-purity solvents without quality compromise at the point of use. Each SSPDS container maintains solvent purity and meets UN, US DOT and OSHA standards for flammable and combustible liquids.

- SSPDS containers are made from stainless steel, specially cleaned to eliminate contamination prior to solvent filling.
- Tamper-evident seals help to verify the delivery of high-quality, uncontaminated solvent.
- SSPDS containers and fittings are designed for a pressure-tight seal. Inert gas shut-off and solvent quick-connect couplings ensure minimal air inclusion and solvent loss when connecting and disconnecting the container at typical operating pressure.
- All solvent flow path surfaces are 304 or 316 electropolished inert stainless steel, polytetrafluoroethylene (PTFE) or fluoroelastomer to ensure solvent stability.
- Hoses and solvent dispensers deliver solvent directly to instruments and dispensing stations.
- In addition to system installation recommendations, Solstice offers regulatory assistance, training on safe container usage and a convenient round-trip shipping program.
- Solvent dispensed from SSPDS container meets or exceeds the already demanding glass bottle specifications. The sealed system protects solvents from contamination and atmospheric moisture.

TYPICAL SSPDS CONTAINER INSTALLATION



INTERMEDIATE BULK CONTAINER (IBC) AND PORTABLE TANKS

Depending on the required solvent purity or to handle corrosive liquids Solstice offers returnable Intermediate Bulk Containers and Portable Tanks as an alternative to the SSPDS container. The solvent is pressure dispensed from a drive gas (typically He or N₂).

STAINLESS STEEL 800 L IBC

The 800 L stainless steel IBC is lined with polytetrafluoroethylene (PTFE) allowing storage as well as pressure-dispensed dispensing ultra-high purity and corrosive liquids for your most demanding biosynthetic applications such as DNA/RNA synthesis. The solvent is pressure dispensed from a drive gas (typically He or N₂).

NON-PRESSURIZED STAINLESS STEEL STAINLESS-STEEL IBC

The 304-stainless steel 1250 L IBC (Hoover) is non-pressurized and offers a safe and cost-effective package solution to meet your high-volume chemical delivery needs. The solvent is dispensed with a pump.

SOLSTICE SSPDS RETURNABLE CONTAINERS SPECIFICATION OVERVIEW



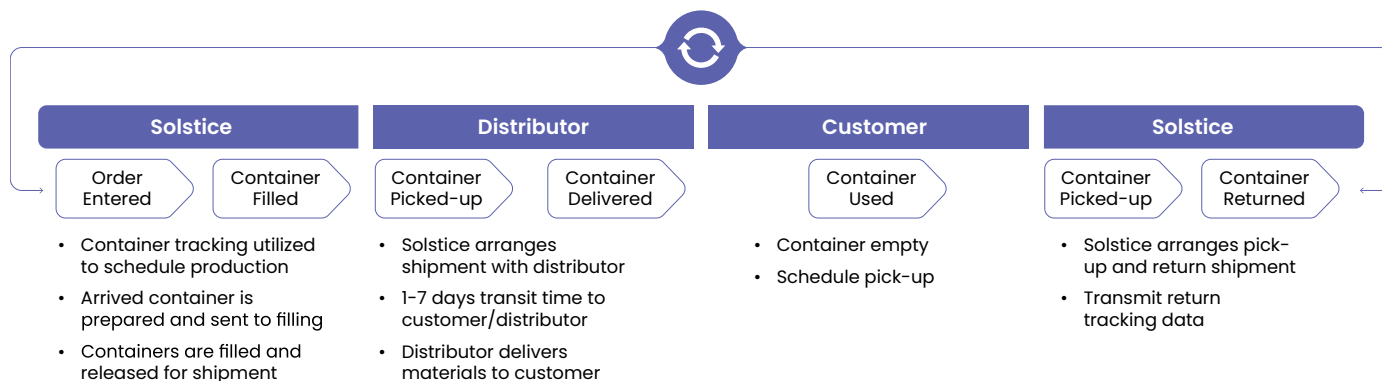
	56 L SSPDS	200 L SSPDS	1250 L SSPDS	800 L PTFE LINED IBC	1250 L HOOVER IBC
Footprint	15.5 in (diameter)	21.8 in (diameter)	44.9 in x 44.9 in	45 in x 45 in	42 in x 48 in
	39.4 cm (diameter)	55.3 cm (diameter)	114.1 cm x 114.1 cm	114 cm x 114 cm	107 cm x 122 cm
Height	26.5 in	51.8 in	73.5 in	64 in	51 in
	724 cm	132 cm	186.7 cm	162 cm	130 cm
Volume	56 L	200 L	1250 L	800 L	1250 L
	14.8 gal	52.8 gal	330.3 gal	211.3 gal	330.3 gal
Approximate weight when empty	50 lbs	107 lbs	760 lbs	926 lbs	475 lbs
	22.7 kg	48.5 kg	345 kg	420 kg	215 kg
Approximate weight when full	147 lbs ¹	455 lbs ¹	2710 lbs ¹	2487 lbs ²	2656 lbs ¹
	67 kg ¹	206 kg ¹	1229 kg ¹	1128 kg ²	1204 kg ¹
DOT/UN packaging specification	UN1A1/X2.8/900	UN1A1/X2.0/900	UN31A/Y	UN31A/Y	UN31A/Y

1. Filled with methanol

2. Filled with 3% dichloroacetic acid/97% toluene

RETURNABLE CONTAINER FLEET MANAGEMENT

The Solstice returnable containers are not only safe and easy to use, but also convenient to return for refilling. Solstice has established a round-trip shipping program that simplifies container return by partnering with a carrier that has been preselected based on their ability to handle and ship the returnable containers at the best available rate to you. Solstice provides return instructions and attaches it to the returnable container. When the container is empty, call or email the Solstice Return Desk at the phone number provided on the return instructions for a bill of lading. Every container is tracked by serial number Solstice maintains complete records of handling and filling customer dedicated fleets by product. This program expedites empty container returns and helps ensure an uninterrupted solvent/reagents supply.



CUSTOM DISPENSING AND CONNECTIONS

Solstice offers custom dispensing options to support multiple applications, including:

- Custom configured connections and fittings to each of our returnable containers
- Direct connection from a Solstice container to a custom fitted line which feeds into a production line, vessel or instrument

Working closely with end-users has allowed Solstice to develop a wide range of dispensing capabilities. The flexibility to retrofit connections onto hoses creates an opportunity to expand your range while maintaining purity to your dispensing point.



All statements and information provided herein are believed to be accurate and reliable, but are presented without guarantee, warranty or responsibility of any kind, express or implied.

Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement, and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated herein, or that other measures may not be required. User assumes all liability for use of the information and results obtained.

Burdick & Jackson BioSyn, and Chromasolvare registered trademark of Solstice International Inc.



For More Information Visit
solstice.com

Solstice Advanced Materials Inc.
115 Tabor Rd. | Morris Plains, NJ 07950



© 2026 Solstice Advanced Materials Inc.

4745001-ESM-BRO-Returnable-Container-Program | SOLS | 06/26