

Solvents in Returnable Containers



PanReac 
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ITW Reagents

Solvents in Returnable Containers



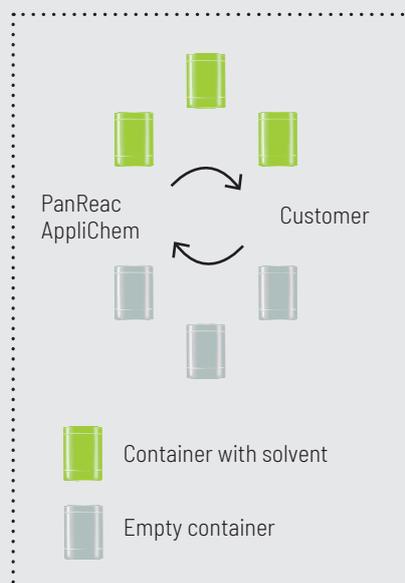
The consumption of solvents in returnable stainless steel containers represents a **fantastic opportunity to contribute towards environmental sustainability**.

It also involves a significant saving in the consumption of packaging materials as a result of the long-lasting and resistant nature of stainless steel containers, which therefore simplifies laboratory waste management.

The working system is extremely simple: after consuming the solvent contained in the drum, you merely contact your regular PanReac AppliChem products supplier and we will come and collect the empty drum and leave you with a full container.

To guarantee the solvent quality, the empty drum is cleaned, filled with solvent and controlled on an individual basis.

We have a wide range of stainless steel containers available, from 10 to 1,000 liters capacity, so you can choose the most appropriate type of drum, based on consumption and available space. They have all been approved for transportation.



Recommended consumption

To enable a returnable container supply system, we recommend having a minimum annual solvent consumption. In the following table we display these consumptions based on drum volume.

Drum volume	Recommended consumption (liters/year)*
10 L	250 L
30 L	500 L
200 L	2000 L
1000 L	5000 L

*Check available sizes for each solvent



Main advantages of working with returnable containers

Ecological

Reduced consumption of other types of non-reusable packaging

- Energy savings
- Preservation of ecosystems

Economical

Reduction of packaging disposal costs

Optimizing the workspace

- For a given amount of solvent, the storage volume is smaller
- Possibility of taking the solvent from outside the laboratory through direct connections to equipment such as HPLC (minimizing vapor emissions)

Safety, Strength and Resistance

High quality stainless steel

- No risk of breakage compared to a glass container
- Inert to solvent and resistant to temperature changes. The solvent quality remains unchanged
- UN-approved containers for the storage and transportation of dangerous goods

Diversity of Packaging, Withdrawal Systems and Accessories

- Wide range of volumes: 10 L, 30 L, 200 L and 1000 L
- Variety of withdrawal systems pursuant to user needs (manual pressurizing or connection to an inert gas source)
- Additional accessory: Level sensor

The following are the most common types of returnable stainless steel containers available. If you do not find what you need, please contact us.

Types of barrels & Withdrawal systems

10 L – code BIN010TRF

Material	Stainless steel AISI 304
Total Capacity	12.2 L
Diameter	229 mm
Height	360 mm
Wall thickness	1 mm
Opening	Thread GL 45, internal opening 29 mm
Weight	2.4 kg
Admissible working pressure	max. 0.3 bar
UN Transport approval	1A1 / X 2.0 / 900



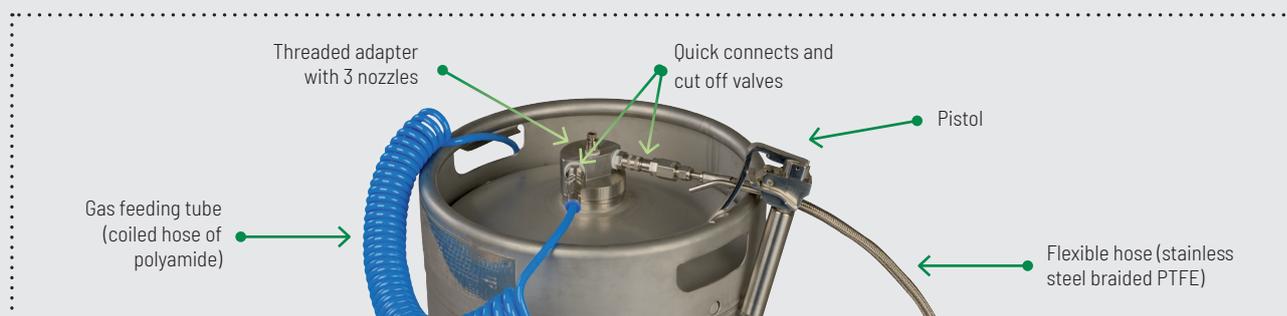
Accessories

Description	Code
Withdrawal system for manual pressurizing	DIS10RF



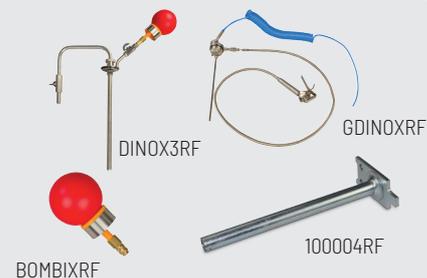
30 L – code BIN030RF

Material	Stainless steel AISI 304
Total Capacity	33 L
Diameter	363 mm
Height	435 mm
Wall thickness	1.5 mm
Opening	Central bung 2" with Tri-Sure screw cap
Weight	10 kg
Admissible working pressure	max. 5 bar
UN Transport approval	1A1 / X 2.0 / 900



Accessories

Description	Code
Withdrawal system for manual pressurizing	DINOX3RF
Hand pump ball	BOMBIXRF
Withdrawal system for compressed air or nitrogen supply pressurizing	GDINOXRF
Metal wrench for drums with 2" and 3/4" closures Tri-Sure	100004RF



Solvents in Returnable Containers



200 L Type I – code BIN200

Material	Stainless steel AISI 304
Total Capacity	225 L
Diameter	600 mm
Height	960 mm
Wall thickness	2 mm
Opening	Central bung 2" with Tri-Sure screw cap
Weight	43 kg
Admissible working pressure	max. 4 bar
UN Transport approval	1A1 / X 2.0 / 900



Accessories

Description	Code
Withdrawal system for gas pressurizing	DINOX200RF
Hand pump ball	BOMBIXRF
Metal wrench for drums with 2" and 3/4" closures Tri-Sure	100004RF



200 L Type II – code BIN200UN

Material	Stainless steel AISI 304
Total Capacity	225 L
Diameter	600 mm
Height	965 mm
Wall thickness	2 mm
Opening	Central bung 2" with Tri-Sure screw cap
Weight	43 kg
Admissible working pressure	max. 4 bar
UN Transport approval	1A1 / X 2.0 / 900

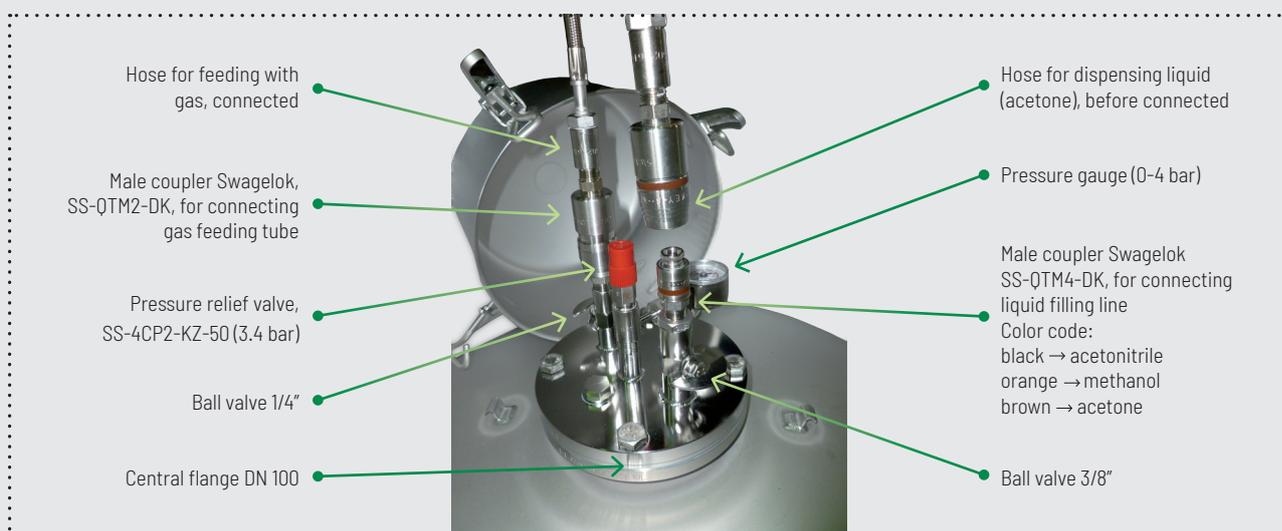


Accessories

The drum code BIN200UN includes connections and hoses for gas pressurization and liquid dispensing

200 L Type III – code BIN200UNWA

Material	Stainless steel AISI 304
Total Capacity	225 L
Diameter	600 mm
Height	965 mm
Wall thickness	2 mm
Opening	Central flange DN 100 with fast connections for hoses
Weight	43 kg
Admissible working pressure	max. 3 bar
UN Transport approval	1A1 / X 2.0 / 900



Accessories

Description	Code
Flexible hose for dispensing liquid, 1 m	AT4Kx-P10/1000C5RF x: 1 → black (acetonitrile) x: 2 → orange (methanol) x: 3 → brown (acetone)
Flexible hose for feeding with gas, 1 m	AT2-P06/1000-C5RF
Massive clamp	TCK-025RF
Teflon seal (gasket)	TCP-025RF



AT4K1-P10/1000C5RF



AT2-P06/1000-C5RF



TCK-025RF



TCP-025RF

Solvents in Returnable Containers



200 L Type IV – code BIN200UNW

Material	Stainless steel AISI 304
Total Capacity	225 L
Diameter	600 mm
Height	965 mm
Wall thickness	2 mm
Opening	Central flange DN 100 with fast connections for hoses
Weight	43 kg
Admissible working pressure	max. 3 bar
UN Transport approval	1A1 / X 2.0 / 900



Accessories

Description	Code
Display Fafnir UM-X for controlling the solvent level	TORRIXUM-EXRF
Flexible hose for dispensing liquid, 1 m	AT4Kx-P10/1000C5RF x: 1 → black (acetonitrile) x: 2 → orange (methanol) x: 3 → brown (acetone)
Flexible hose for feeding with gas, 1 m	AT2-P06/1000-C5RF
Massive clamp	TCK-025RF
Teflon seal (gasket)	TCP-025RF



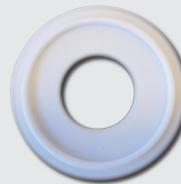
AT4K1-P10/1000C5RF



AT2-P06/1000-C5RF



TCK-025RF



TCP-025RF



TORRIXUM-EXRF

1000 L – code BIN1000UNW

Material	Stainless steel AISI 304
Total Capacity	1100 L
Diameter	1200 mm
Height	1600 mm
Wall thickness	3 mm
Opening	Central flange DN 250 with fast connections and level sensor
Weight	215 kg
Admissible working pressure	max. 3 bar
UN Transport approval	3A1 / Y



Accessories

Description	Code
Flexible hose for dispensing liquid, 1 m	AT4Kx-P10/1000C5RF x: 1 → black (acetonitrile) x: 2 → orange (methanol) x: 3 → brown (acetone)
Flexible hose for feeding with gas, 1 m	AT2-P06/1000-C5RF
Display Fafnir UM-X for controlling the solvent level	TORRIXUM-EXRF
Massive clamp	TCK-025RF
Teflon seal (gasket)	TCP-025RF



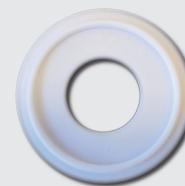
AT4K1-P10/1000C5RF



AT2-P06/1000-C5RF



TCK-025RF



TCP-025RF



A176.EN:201901



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