



Solvents

in returnable containers

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What are returnable containers?

These are high-quality stainless steel containers suitable for solvent consumption in the laboratory, which can be reused and therefore represent a **fantastic opportunity to contribute towards environmental sustainability** in your laboratory.

Key features:

- **Strength and resistance:** High quality stainless steel container AISI 304, white pickled and passivated.
- **UN-approved containers** for the storage and transportation of dangerous goods.
- **Wide range of volumes:** 10 L, 30 L, 200 L, and 1000 L.
- **Variety of dispensing systems** pursuant to user needs: Manual pressurizing or connection to an inert gas source.
- Additional accessory: **Level sensor** for 200 L and 1000 L.

What are the main advantages of a returnable container?

- **Environmentally friendly:** Reduce the consumption of other types of non-reusable packaging. Saves energy, preserving the ecosystems.
- **Significant saving:** Reduction of packaging disposal costs and optimization of the workspace; for a given amount of solvent, the storage volume is smaller.
- **Safety:** No risk of breakage compared to a glass container. Container resistant to temperature changes.
- **Guaranteed quality:** Container inert to solvent. The solvent quality remains unchanged.
- **Easy, flexible, and convenient solvent handling:** Possibility of taking the solvent from outside the laboratory through direct connections to equipment such as HPLC, minimizing vapor emissions. Permits construction of a central supply system.



Which is the recommended consumption?

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



Which solvents can I purchase in returnable containers?

ITW Reagents manufactures solvents in different grades for analytical purposes that are designed for use in modern instrumental analysis methods, such as multipurpose solvents. These products are strictly controlled in our analytical laboratories.

We offer different qualities of solvents:

- For HPLC/UHPLC grade
- For GC grade
- For analysis (p.a.) according to ISO (International Organization for Standardization), ACS (American Chemical Society) and pharmacopoeia specifications for reagents (Reag Ph. Eur., Reag. USP).

Our solvents portfolio includes:

- | | |
|---|--|
| <ul style="list-style-type: none"> • Acetone • Acetonitrile • Cyclohexane • Chlorobenzene / Acetic Acid 2:1 • Chloroform • Dichloromethane • Diethyl Ether • Ethanol absolute • Ethanol 70% v/v • Ethanol / Diethyl Ether 1:1 v/v + Bromophenol Blue • Ethanol / Diethyl Ether 1:1 v/v + Phenolphthalein | <ul style="list-style-type: none"> • Ethyl Acetate • n-Heptan • Heptane, alkanes mixture • n-Hexane 95% • Hexane 95%, alkanes mixture • Hexane, alkanes mixture • Methanol • Petroleum Ether 40-60°C • 2-Propanol • Tetrahydrofuran • Toluene / 2-Propanol / Water 100:99:1 v/v/v |
|---|--|

Contact us if you are interested in a solvent that is not included in our listing or if you want to learn more about our solvents portfolio.

How is it organized?

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.

Depending on the criticality of the product and to ensure the solvent quality, the empty container is cleaned, and after filling with solvent, it is 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.

Whom can I contact?

Germany

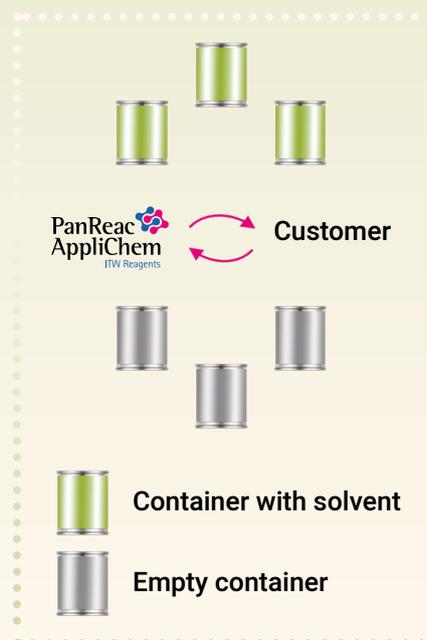
E-mail: customerservice.de@itwreagents.com

Spain

E-mail: customerservice.es@itwreagents.com

Italy

E-mail: customerservice.it@itwreagents.com



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Types of barrels & dispensing systems

10 L – Product number 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 (same as 1 L or 2.5 L glass bottles)
Weight	2.4 kg
Admissible working pressure	max. 0.3 bar
UN transport approval	1A1 / X 2.0 / 900
Units in full europallet	30 (in two floors)

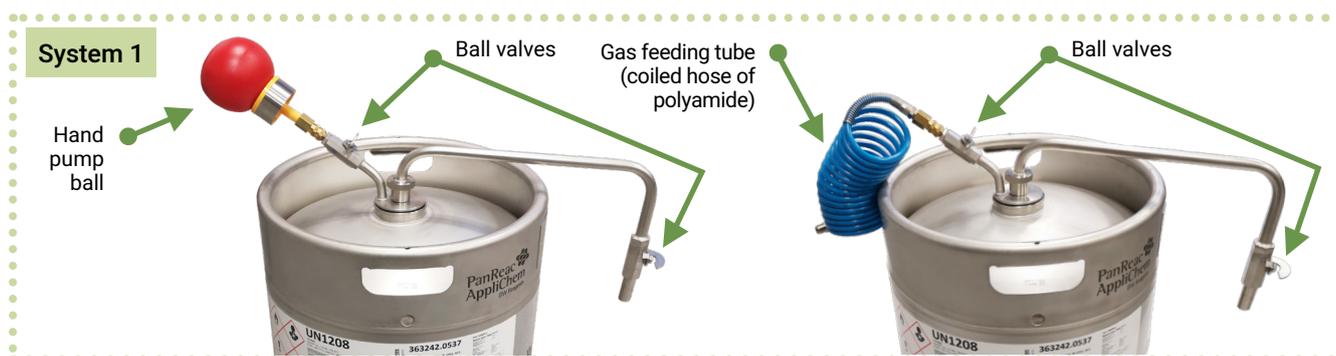
Accessories

Description	Product number
Dispensing system for manual pressurizing	DIS10RF



30 L – Product number 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
Units in full europallet	12 (in two floors)



System 2



System 2
Returnable containers in a row – **Duck Chain Principle**. Contact us if you are interested in this option.



System 3



System 3
For ASECOS safety cabinets type 90 with solvent dispensing system.



Accessories

Description	Product no.
Dispensing system for manual or inert gas pressurizing (System 1 - With both hand pump ball and coiled hose of polyamide)	DINOX3RF
Hand pump ball	BOMBIXRF
Gas feeding tube (coiled hose polyamide)	EUKSRF
Dispensing system for inert gas pressurizing (System 2 - Suitable for Duck Chain Principle)	GDINOX2RF
Dispensing system for inert gas pressurizing (System 3 - Suitable for ASECOS safety cabinets type 90)	GDINOXRF
Metal wrench for drums with 2" and 3/4" closures Tri-Sure	100004RF



DINOX3RF



BOMBIXRF

EUKSRF



GDINOX2RF



GDINOXRF



100004RF

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200 L – Product number BIN200UNW

Material	Stainless steel AISI 304
Total Capacity	225 L
Diameter	600 mm
Height	1100 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
Units in full europallet	2 (in one floor)



- Hose for dispensing liquid (methanol), connected
- Male coupler Swagelok SS-QTM4-DKx, for connecting liquid filling line
Color product number:
x: 1 black (acetonitrile)
x: 2 orange (methanol)
x: 3 green (ethanol)
x: 8 brown (acetone)
- Pressure relief valve, SS-4CP2-KZ-50 (3.4 bar)
- Ball valve 3/8"
- Central flange DN100
- Level sensor Fafnir Torrix
- Hose for feeding with gas, connected
- Cable to connect Display Fafnir UM-X for controlling the solvent level
- Male coupler Swagelok, SSQTM2-D, for connecting gas feeding tube
- Ball valve 1/4"
- Pressure gauge (0-4 bar)

Accessories

Description	Product number
Display Fafnir UM-X for controlling the solvent level	TORRIXUM-EXRF
Flexible hose for dispensing liquid, 2 m*	AT4Kx-P10/2000C5RF x: 1 black (acetonitrile) x: 2 orange (methanol) x: 3 green (ethanol) x: 8 brown (acetone)
Flexible hose for feeding with gas, 2 m*	AT2-P06/2000-C5RF
Massive clamp	TCK-025RF
Teflon seal (gasket)	TCP-025RF



TORRIXUM-EXRF



AT4Kx-P10/2000C5RF



AT2-P06/2000-C5RF



TCK-025RF

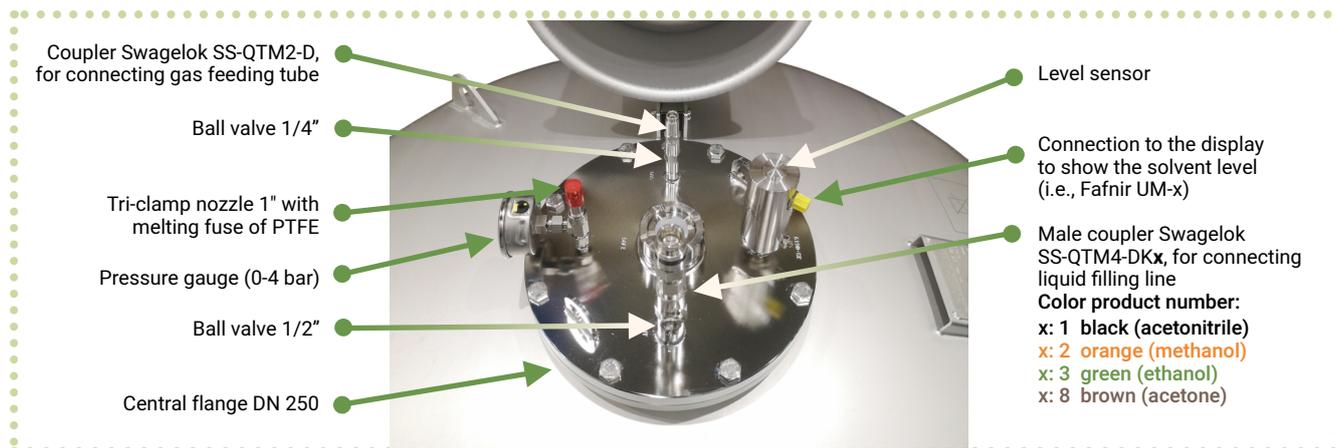


TCP-025RF

*Standard length. Different lengths under request.

1000 L – Product number 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	31A / Y



Accessories

Description	Product number
Display Fafnir UM-X for controlling the solvent level	TORRIXUM-EXRF
Flexible hose for dispensing liquid, 2 m*	AT4Kx-P10/2000C5RF x: 1 black (acetonitrile) x: 2 orange (methanol) x: 3 green (ethanol) x: 8 brown (acetone)
Flexible hose for feeding with gas, 2 m*	AT2-P06/2000-C5RF
Massive clamp	TCK-025RF
Teflon seal (gasket)	TCP-025RF



TORRIXUM-EXRF



AT4Kx-P10/2000C5RF



AT2-P06/2000-C5RF



TCK-025RF



TCP-025RF

*Standard length. Different lengths under request.



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