

Safety connects.

Your direct connection to
maximum safety in
daily solvent handling.



Solvent management systems

Merck Millipore invests heavily in safe and innovative solvent handling technology and product development, focusing on customer requirements and offering a wide range of products and accessories. Our primary goal is to ensure user safety and the reliability of analytical results in your laboratory.

For many years, Merck Millipore has worked closely with customers to develop solvent withdrawal systems that are tailor-made according to solvent grades and packaging types.

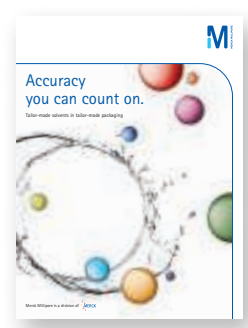
Today, our broad range of withdrawal systems and containers is unrivaled in the industry. As a result, customers are assured that, whatever the application is, Merck Millipore can supply an integrated solution with the right solvent grade in the right container and with the right withdrawal system for highest safety and optimal results.



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Please have a look at our catalog "Accuracy you can count on." for more information about our tailor-made solvents in tailor-made packaging.



All you need for your individual application

- ▶ Pack size recommendation and return system
Turn the page for more detailed information on packaging sizes.

Instrumental analysis

	0.5 L – 4 L	Glass bottles	page 14 – 15
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- HPLC**
LiChrosolv®
Prepsolv®
- Spectroscopy**
Uvasol®
- Gas chromatography**
SupraSolv®
UniSolv®
- NMR spectroscopy**
MagniSolv™

150 mL – 1 L



SeccoSept® bottles

page 15

10 L – 30 L



returnable packaging 

Fully sealed stainless steel barrels

page 15

0.5 L – 4 L



Glass bottles

page 14 – 15

1 L – 5 L



HDPE bottles

page 16

5 L



Aluminum bottle

page 17

10 L – 190 L



Stainless steel drums

page 18 – 25

10 L – ≥ 1,000 L



Other drums and containers page 18 – 19, 26 – 29

SeccoSolv®

Dried solvents

EMSURE®

Solvents for analysis
ACS, ISO, Reag. Ph Eur

EMPARTA®

Solvents for analysis
ACS

EMPLURA®

Solvents for
lab-applications

Pack size recommendation and return system

Merck Millipore has a strong track record in developing practical and safe packaging concepts and chemical packaging that preserve the high quality of our solvents. We have been authorized as an official inspection authority by the Federal Institute for Material Research and Testing of Germany (BAM).

Our unique variety of packaging sizes and types for organic solvents provides a solution for each of your individual applications.

Pack size recommendation



Pack sizes	0.5 L – 5 L	10 L – 190 L
Annual consumption	0.5 L – 100 L	100 L – 1,000 L

Standard packaging

Standard packaging range **one-way packaging**

- Stainless steel drums **optionally returnable packaging**
- Stainless steel barrels **mandatorily returnable packaging**
- Advantage: no rinsing / cleaning / disposing
- Return unrinsed with original labels and tightly closed



190 L – 20,000 L

≥ 1,000 L

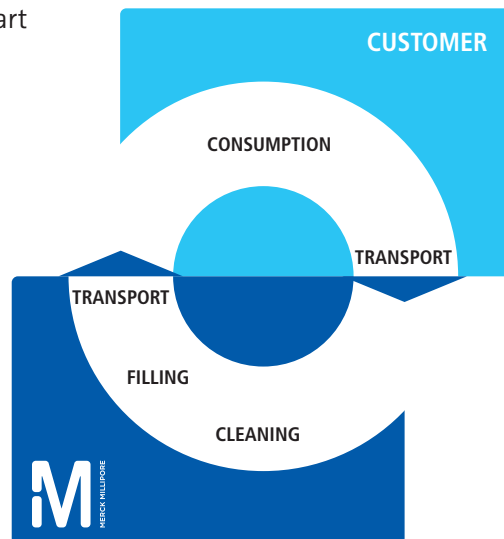
Stainless steel containers **mandatorily returnable packaging**

- Customized products and containers
- Individual processes with rental agreements

Return system

Stainless steel barrels and drums are part of a return process. The reuse of barrels and drums makes it possible to conform to packaging regulations that require packaging waste to be reduced or even avoided. In this way, supplier and user act together in a partnership in reducing packaging waste.

Return system chart



Stainless steel barrels and containers are mandatory to be returned and are coded with a unique ID number – **mandatorily returnable packaging**.



Stainless steel barrels and containers are mandatory to be returned and are coded with a unique ID number – **optionally returnable packaging**.



Metal drums are used as **one-way packaging**.

Safety and protective features

Packaging must meet or exceed minimum performance standards given by the specifications of the United Nations before it can be authorized for the carriage of dangerous goods. If they pass the test, the packaging becomes a design-type, certified by a national competent authority. Coded with a unique marking it is easy for our customers to read important safety advantages directly.

UN 1A1/X2.3/900/99/D/BAM8361-TCS

UN	United Nations Packaging Symbol
1	Drum
A	Steel
1	Non-removable head
X	For packaging groups I, II and III
2.3	With a relative density of 2.3 and a vapor pressure of max. 230 kPa
900	Hydrostatic test pressure in kPa (900 kPa = 9 bar)
99	Year of manufacture = 1999
D	Origin of manufacture = Deutschland (Germany)
BAM8361	Approval authority with unique registration number (= 10 L barrel of Merck KGaA, Darmstadt)
TCS	Manufacturer code

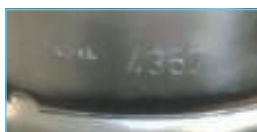
Specially shaped barrel top section for safe stacking and usage



Flexible withdrawal system with inert gas pressurizing for stainless steel barrels and drums



Engraved identification number for complete monitoring of the barrel (e.g. automatic stop for safety test, tracing)



UN approved packaging for safe transport of dangerous goods



Specially developed screw-cap for tight closure without leakage and contamination

Variety of bottles in different materials and sizes for your individual demand

Design improved drum top with engraved UN code for safe stacking and usage



Manual withdrawal system for safe flexibility for all barrels and drums of 10, 25 and 30 L volume



Specially shaped bottom section of drums and barrels for optimal emptying of residues

Fire triangle and static electricity

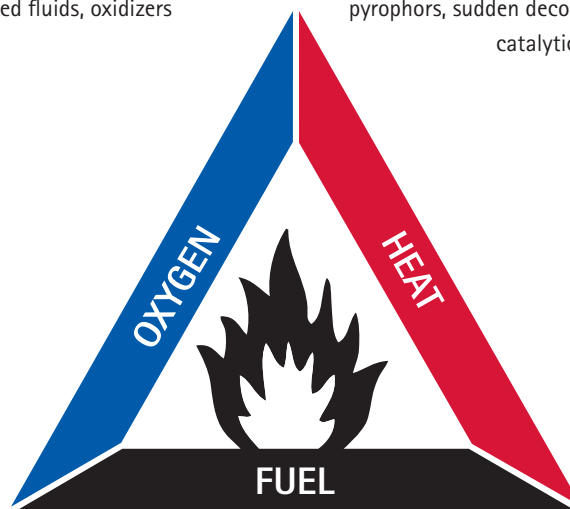
If flammable liquids (e.g. solvents) are to be used, the container (10 L and more) must be properly earthed according to valid safety regulations to avoid explosion and fire risks. Appropriate measures must be taken to discharge static electricity. General warnings and safety instructions must be observed, they reduce the risk of electrostatic separation of charges to increase safety in daily solvent handling dramatically.

Oxidizer

Planned introduction of air, inadvertent introduction of oxygen, release of hydrocarbons into air, weathered fluids, oxidizers

Ignition source

Heat, electricity, static electricity, friction, chemical reactions, spontaneous combustion, dieseling, pyrophors, sudden decompression, catalytic reactions



Heavy and light gases, hydrocarbon liquids and vapors, vapors of chemicals / lubricants / solvents, frac oils, flammable materials

Safe handling with our protective features

- ▶ Earthing with an antistatic device
For further information please have a look at page 44.
- ▶ Using a fume hood
More details on pages 36, 38, 45 and 48.

Service and support

Merck Millipore creates sustainable value and provides a wide range of customized services to meet your individual requirements.

We have extensive experience in handling all types of hazardous materials, including highly sensitive substances in specially developed packaging with directly connectable, safe withdrawal systems.

Please make use of our various information platforms as well as of our customized service and support for your individual lab environment and application.



[Our Merck Millipore websites](#)

Please visit our solvents website
www.merckmillipore.com/solvents
for additional product information.





Online Media

Please visit our special withdrawal system websites for additional product information on withdrawal systems, handling videos and important safety topics in daily solvent handling.

Withdrawal systems:

www.merckmillipore.com/solvents-withdrawal

Safety film & handling video manuals:

www.merckmillipore.com/safety-film

Technical details

Our withdrawal systems include comprehensive manuals with safety and handling instructions. Additionally all installation steps are described with many pictures to provide maximum safety in daily solvent handling.

Please contact your local Merck Millipore agent for additional information on the ordered products.



Technical drawings

Please contact your local Merck Millipore agent for technical drawings of your individual installation or on products of interest.

Print Media

Information on solvents and accessories can also be found in our solvents catalogue „Accuracy you can count on“ (order no. W282105). Please ask your local Merck Millipore supplier for a printed copy or visit us at www.merckmillipore.com/solvents for pdf download.



Safety, regulations & requirements

Please visit our website www.merckmillipore.com/safety for questions concerning your lab safety, e.g. basic lab rules, safety data sheets or safe storage.



Bottles – a large variety for every need

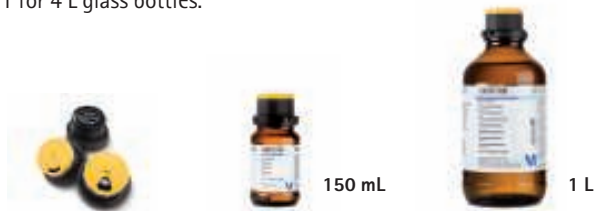
Merck Millipore's demanding quality standards apply not only to the reagents themselves but also to the packaging they are supplied in; each material being carefully developed and matched to its product specification. Our extensive variety of packaging types and sizes is unrivaled in the industry. Each of your individual demands can be covered with bottle pack sizes from 0.5 L to 5 L and materials from glass with and without septum lids to HDPE and aluminum.



Glass bottles | page 14 – 15

- Optimum characteristics for handling, storage and transport
- Safe footprint and low center of gravity
- Optimum emptying due to the special pouring lip for non-drip pouring
- Level sensors available
- Safety screw cap S40 (Polypropylene) with a circlip as originality device and a PTFE insert for highest closeness
- High pressure resistance

To comply with transport regulations the glass bottles must be protected, usually by pads of polystyrene. As an environmentally friendly alternative we also use molded fiber pads made of recyclable material that do fulfill all necessary safety requirements. Such pads are dispatched as packages of 6 x 1 L or 4 x 2.5 L in a special corrugated cardboard box that has been approved for transport purposes. For daily lab handling of glass bottles we recommend using the safety carriers 9.20078.0001 for 0.5 L to 2.5 L and 1.40140.0001 for 4 L glass bottles.



SeccoSept® bottles | page 15

- Double tamper evidence closure (security ring and seal)
- Extra large septum surfaces and sealing closure
- PTFE coated silicon septum, that can be punctured multiple times without losing stability or becoming porous
- Bottle rotating cap for one-handed operation during your applications
- Special pouring lip
- Available with 150 and 1000 mL packaging sizes



0.1 mL – 1 L



Septum seal bottles | page 15

- Easy, safe and accident-free handling
- Innovative packaging for long-term storage without loss of quality



1 L

2.5 L

5 L



HDPE bottles | page 16

- Made from HDPE (no risk of fracture), outstanding handling characteristics due to integrated handle for 2.5 and 5 liter bottles
- Small footprint (optimum for storage) and low weight (easy to handle and low transport costs)
- Tested for blisters and particles
- UN certification to be sent without polystyrene outer packaging
- Safety screw cap S40 (Polypropylene) with a circlip as an originality device and a PTFE insert for highest closeness
- High pressure resistance
- Level sensors available



5 L



Aluminum bottle | page 17

- Optimum characteristics for handling, storage and transport
- Safety screw cap S40 (Polypropylene) with a circlip as an originality device and a PTFE insert for highest closeness
- UN certification to be sent without polystyrene outer packaging
- Optimum material characteristics (avoidance of interactions between solvents and packaging material)
- Low weight (easy handling and low transport costs)
- No risk of fracture
- Level sensors available



All about ...

Safety accessories for bottles | page 42 – 43

Handling hazardous goods daily demands highest health protection. Specially for solvents in glass bottles there are several additional safety products available that increase your laboratory safety dramatically.

Glass bottles

[available from 0.5 L up to 4 L]



Specially developed S40 thread
withstands higher contact pressure
and ensures tighter seal

Specially formed sharp thread lip
for safe drip free pouring

Specially treated high quality glass
with extreme durability due to
constant wall thickness for highest
safety and product quality

Unique, clear and complete labeling
with product specifications
and all relevant hazard declarations



Technical data

Material:
Moulded amber glass, hydrolytic class 3

Available packaging size:
0.5 L, 1 L, 2.5 L and 4 L

Height, diameter and net weight (bottle size):
180 mm, ø 83 mm, approx. 450 g (0.5 L)
222 mm, ø 101 mm, approx. 600 g (1 L)
258 mm, ø 151 mm, approx. 1,140 g (2.5 L)
350 mm, ø 162 mm, approx. 1,525 g (4 L)

- + **HPLC adapter** to connect bottles directly to HPLC instruments
- + **Adapter** to connect equipment with different thread sizes (e.g. GL45, S38)
- + **Level sensors** to connect bottles directly to HPLC instruments and monitor / manage bottles in process-related steps automatically > see page 46

New S40 screw cap

Tamper proof closure will remain as ring on the bottle neck

Pour ring for safe and ergonomic withdrawal

New tension-free manufacturing technology: "bottle out of one drop" to avoid any predetermined breaking point



Broad and stable base for safe stand with low gravity center

Accessories

> page 42 – 43

Bottle opening key S40 / S28
[1.08801.0001]



Safety carrier for bottles up to 2.5 L
[9.20078.0001]



Safety carrier for 4 L bottles
[1.40140.0001]



Adapter with integrated level sensor for Merck Millipore bottles with S40 thread (supply) [9.67100.2001]



Display and alarm device for level sensor [9.67100.2004]



Label set for self-labeling lab mixture acc. to GHS, DIN EN ISO & GLP [1.00801.0001]



HPLC bottle adapter S40 (supply) with valve and filter for direct bottle connection to HPLC tubes [1.03830.0001]



HPLC bottle adapter S40 (disposal) for direct bottle connection to HPLC tubes [1.03831.0001]



Exhaust air filter for 1.03831.0001 [1.03833.0001]



SeccoSept® – the septum-innovation

Material: Premium brown blank glass

Available packaging size: 150 mL and 1 L

Dimensions and net weight (bottle size):

128 mm, ø 60 mm, 230 g (150 mL)

222 mm, ø 101 mm, 600 g (1 L)

Safety: Double tamper evidence closure and innovative septum

Specifics: Dry and safe handling of dried solvents

by five extra large septum surfaces and rotating cap



Septum seal bottles

Material: Premium brown blank glass

Available packaging size: 0.1 mL – 1 L

Dimensions and net weight (bottle size):

145 mm, ø 100 mm, 450 g (1 L)

Safety: Septum bottles and glass ampoules (one point break ampoule)

Specifics: Easy, safe and accident-free handling of deuterated solvents



HDPE bottles [available from 1 L up to 5 L]



+ Adapter to connect equipment with different thread sizes (e.g. GL45, S38)

Specially developed S40 thread
withstands higher contact pressure
and ensures tighter seal

New S40 screw cap
Tamper proof closure will remain as ring
on the bottle neck

Specially formed sharp thread lip
for safe drip free pouring

Integrated handle
for best pouring properties

Specially treated high quality HDPE
with extreme durability, inertness
and shock resistance for highest safety
and product quality

Unique, clear and complete labeling
with product specifications
and all relevant hazard declarations

Reduced packaging waste
(no additional protection material
necessary inside card boxes)
to protect the environment and
to benefit from economical advantages

Low bottle weight
for easy, safe and economic
solvent handling



Technical data

Material:
HDPE (High-density polyethylene)

Available packaging size:
1 L, 2.5 L and 5 L

Height, diameter and net weight (bottle size):
206 mm, ø 101 mm, approx. 66 g (1 L)
322 mm, ø 125 mm, approx. 145 g (2.5 L)
330 mm, ø 178 mm, approx. 335 g (5 L)

Accessories

> page 42 – 43

Bottle opening key S40 / S28
[1.08801.0001]



Adapter with integrated level sensor for Merck Millipore bottles with S40 thread (supply)
[9.67100.2001]



Display and alarm device for bottle level sensor
[9.67100.2004]



Label set for self-labeling lab mixture acc. to GHS, DIN EN ISO & GLP
[1.00801.0001]



Aluminum bottle [available for 5 L]



Technical data

Material:
Aluminum

Available packaging size:
5 L

Height, diameter and
net weight:
298 mm, ø 175 mm,
approx. 285 g

Accessories

> page 42 – 43

Bottle opening key S40 / S28
[1.08801.0001]



HPLC bottle adapter S40 (supply), valve and filter for
direct bottle connection to HPLC tubes [1.03830.0001]



Adapter with integrated level sensor for bottles
with S40 thread (supply) [9.67100.2001]



HPLC bottle adapter S40 (disposal) for direct bottle
connection to HPLC tubes [1.03831.0001]



Display and alarm device for level sensor
[9.67100.2004]



Exhaust air filter for 1.03831.0001
[1.03833.0001]



Label set for self-labeling lab mixture
acc. to GHS, DIN EN ISO & GLP [1.00801.0001]



Drums at a glance

As the global market leader in laboratory reagents, we apply our demanding quality and safety standards not only to our reagents themselves, but also to the containers we supply them in. That's why we continuously develop and improve packaging and tailor-made solvent withdrawal systems that meet the requirements of our customers. Today we are able to provide a broad range of withdrawal systems and containers that is unrivaled by any other manufacturer. Solvent management solutions from Merck Millipore help to improve your materials management, to minimize the environmental impact of packaging waste and health risks for your employees, and to implement more cost-effective disposal processes.

Benefits

- Maximum user safety
- Easy and contamination-free solvent handling
- Application orientated solutions and individual installations
- Ecological and economical benefits

returnable
packaging

10 L



25 L



190 L

**Stainless steel drums | page 20 – 21**

- Optimum material characteristics (avoidance of interactions between solvents and packaging material)
- Use as returnable drums
- Can be combined with a variety of withdrawal systems and level sensors
- Optimum emptying
- Stackable

Withdrawal systems

Take advantage of perfectly matched systems for maximum safety in your individual application.

- ▶ Manual withdrawal system | page 22
- ▶ Withdrawal system with inert gas pressurizing | page 23
- ▶ Direct instrument connections | page 24 – 25

one-way
packaging

10 L



25 L



180 / 190 L

**Metal drums | page 26 – 27**

In addition to conventional packaging we also implement specific solutions especially for production use. This range includes steel drums from 10 to 180 / 190 liters, depending on the solvent, with a PE-inliner.

Withdrawal systems

Take advantage of perfectly matched systems for maximum safety in your individual application.

- ▶ Manual withdrawal system | page 28 – 29



Stainless steel returnable drums

[available from 10 L up to 190 L]



Protective cap
with originality sealing

Specially formed rims
for best stackability

Safe and easy handling
due to two large handles

High quality stainless steel
with extreme durability, inertness and shock resistance
for highest safety and product quality

Printed / engraved UN code
includes important safety information and
provides packaging certification



Technical data

Parameter	10 L	25 L	190 L
Height	35 cm	52 cm	88 cm
Diameter	24 cm	29 cm	59.5 cm
Volume	13 L	28 L	215 L
Filling quantity	10 L	25 L	190 L
Weight (empty)	1.9 kg	3.8 kg	18 kg
Number per pallet	15	11	2
Openings	2" centrally and 3/4" decentrally located		
Material	stainless steel 1.4301		

- + Withdrawal system for manual pressure build-up > see page 24
- + Withdrawal system for pressurizing with inert gas > see page 25



Standard openings
to ensure highest interoperability

Unique, clear and complete labeling
with product specifications
and all relevant hazard declarations

**Cost effectiveness and
environmental protection**
by using the drum returning process

returnable
packaging



Bottom reservoir
for optimal emptying

Accessories

> page 44 – 45

Opening key (2" / 3/4")
[1.08803.0001]



Antistatic set (3 cables)
[1.07070.0001]



Reducing valve, 0.2 bar
[9.67100.9100]



Pressure safety device, 0.5 bar
[9.67100.9004]



Withdrawal system for manual
pressure build-up [1.01114.0001]



Withdrawal system for inert gas
pressurizing [1.06710.0001]



Dip tube for 10 L stainless steel drums
[9.67100.1010]



Dip tube for 25 L stainless steel drums
[9.67100.1025]



Dip tube for 190 L stainless steel
drums [9.67100.1190]



Stainless steel clamp for filling nozzle
attachment to drums [9.67106.0001]



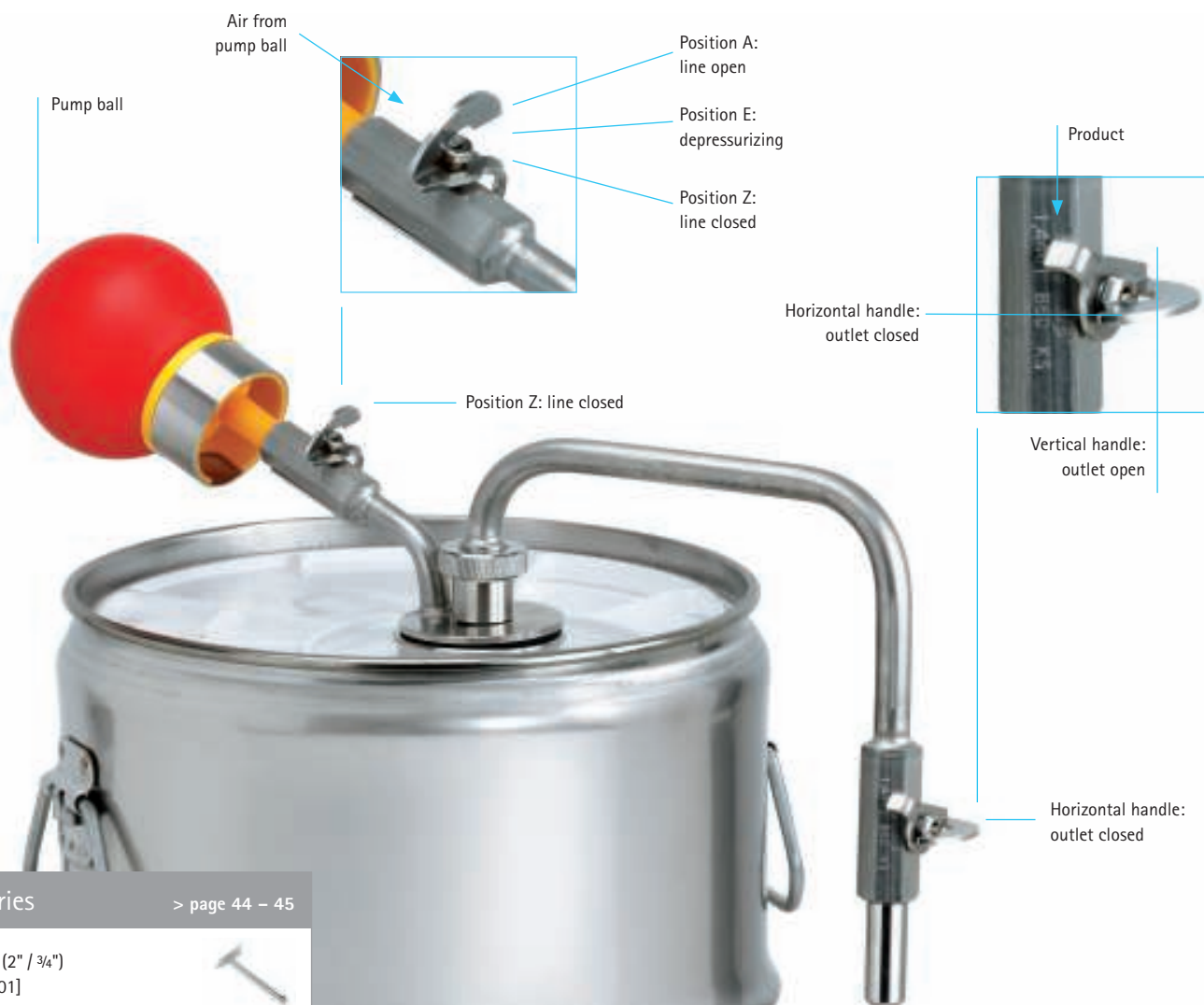
Withdrawal systems for stainless steel returnable drums



Manual pressure build-up

Available for all 10 L and 25 L stainless steel returnable drums. Pressure build-up by pump ball

- Safe, easy and convenient solvent handling
- No dependence on gas supply
- Cost effective solution due to economic concept of returnable containers



Accessories

> page 44 – 45

Opening key (2" / 3/4")
[1.08803.0001]



Antistatic set (3 cables)
[1.07070.0001]



Spare parts

Dip tube for 10 L drums
[9.67100.1012]



Dip tube for 25 L drums
[9.67100.1028]



Hand pump ball
[9.67114.0000]



System at a glance

Order number	1.01114.0001
Suitability	10 L and 25 L metal and stainless steel drums
Operation mode	Manual pressure build-up by pump ball
Set components	Withdrawal system body with 2" clamp, hand pump ball with rapid-action connector, 10 L dip tube, 25 L dip tube

Pressurizing with inert gas

Available for all stainless steel returnable drums. Inert gas pressurizing with house gas feeding or gas bottle

- All materials made of stainless steel and special sealing material with no organic compounds detectable
- Safe, easy and convenient solvent handling
- No risk of contamination from incoming air
- Cost effective solution due to economic concept of returnable container handling
- Permits construction of a central supply system
- Flexible product feed

Self-locking tear-off connectors
for quick connection and disconnection

Two different **threaded adapters**
for avoiding mismatch of gas and product



Spiral gas feeding tube
[9.67100.9051]

Stainless steel clamp
to attach nozzle directly to the drum
[9.67106.0001]

Safety hook to avoid
unintended solvent supply (push
safety hook first to unblock the
supply handle)

Filling nozzle with stainless steel
coated PTFE tube
[9.67100.9090]

Integrated swivel joint
to avoid tube tensions

Accessories

> page 44 – 45

Opening key (2" / 3/4")
[1.08803.0001]



Antistatic set (3 cables)
[1.07070.0001]



Reducing valve, 0.2 bar
[9.67100.9100]



Pressure safety device, 0.5 bar
[9.67100.9004]



Stainless steel clamp for filling nozzle
attachment to drums [9.67106.0001]



Necessary complete products

Dip tube for 10 L stainless steel drums
[9.67100.1010]



Dip tube for 25 L stainless steel drums
[9.67100.1025]



Dip tube for 190 L stainless steel
drums [9.67100.1190]



Spare parts [as shown in the picture]

Filling nozzle with stainless steel coated, flexible
PTFE tube (80 cm) [9.67100.9090]

Gas feeding tube [9.67100.9051]

Threaded adapter with horizontal connections
[9.67100.9003]

Threaded adapter with vertical connections
[9.67100.9002]

System at a glance

Order number 1.06710.0001

Suitability 10 L, 25 L and 190 L stainless steel drums
10 L, 30 L and 185 L stainless steel barrels

Operation mode Pressurizing with inert gas (house gas / gas bottle)

Set components Filling nozzle with stainless steel coated, flexible PTFE tube, 80 cm [9.67100.9090],
Gas feeding tube [9.67100.9051], threaded adapter with vertical connections [9.67100.9002]

Withdrawal systems and direct connections for stainless steel returnable drums



Manual pressure build-up for high volumes

Pressure build-up by foot pump ball

- Safe, easy and convenient solvent handling
- Usage of tested high quality materials to ensure a reliable, contamination free and safe handling of Merck Millipore solvents
- High flexibility due to independence on gas supply



Accessories

> page 44 – 45

Opening key (2" / 3/4")
[1.08803.0001]



Antistatic set (3 cables)
[1.07070.0001]

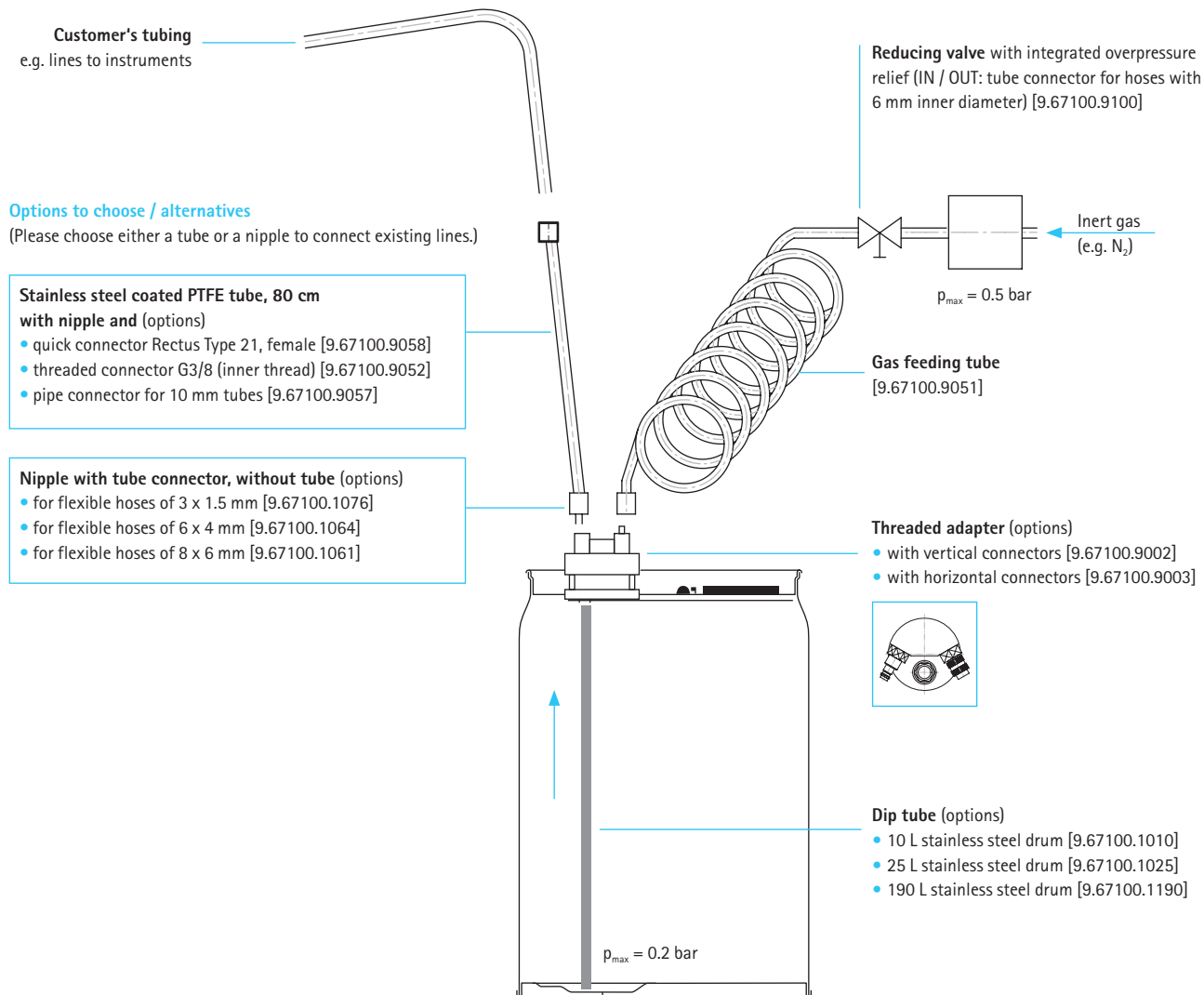


System at a glance

Order number	1.19171.0001
Suitability	180 L / 190 L / 200 L metal and stainless steel drums
Operation mode	Manual pressure build-up by foot pump ball
Set components	Withdrawal system body with 2" thread, foot pump ball with flexible tube and rapid-action connector, adjustable dip tube

Direct connections to various instruments or product lines

Stainless steel drum with direct instrument connection



Direct connections to instruments or product lines are a safe option to increase process effectiveness. Customized installations are available on request with individual compilations of necessary products and technical drawings. **Please contact your Merck Millipore supplier to discuss your individual requirements.**

Accessories

> page 44 – 45

Dip tube 10 L stainless steel drum	9.67100.1010	Nipple with tube connector (w/o tube) for flexible hoses of 3 x 1.5 mm	9.67100.1076	Stainless steel coated PTFE tube (80 cm), nipple, quick connector Rectus Type 21, female	9.67100.9058
Dip tube 25 L stainless steel drum	9.67100.1025	Nipple with tube connector (w/o tube) for flexible hoses of 6 x 4 mm	9.67100.1064	Stainless steel coated PTFE tube (80 cm), nipple, threaded connector G3/8 (inner thread)	9.67100.9052
Dip tube 190 L stainless steel drum	9.67100.1190	Nipple with tube connector (w/o tube) for flexible hoses of 8 x 6 mm	9.67100.1061	Stainless steel coated PTFE tube (80 cm), nipple, pipe connector for 10 mm tubes	9.67100.9057
Gas feeding tube	9.67100.9051				
Reducing valve, 0.2 bar	9.67100.9100				
Threaded adapter w. vertical connections	9.67100.9002				
Threaded adapter w. horizontal connections	9.67100.9003				

One-way metal drums

[available from 10 L up to 180 L]



Protective cap
with originality sealing

Specially formed rims
for best stackability

Safe and easy handling
due to two large handles

High quality metal
with extreme durability, inertness and shock resistance
for highest safety and product quality



Technical data

Parameter	10 L	25 L	25 L with PE	180 L	180 L with PE
Height	34 cm	52 cm	52 cm	88 cm	88.5 cm
Diameter	24.5 cm	29 cm	29 cm	59.5 cm	60 cm
Volume	13.5 L	28 L	28 L	216.5 L	203 L
Filling quantity	10 L	25 L	25 L	180 L	180 L
Weight (empty)	1.8 kg	3.6 kg	3.4 kg	21.3 kg	21.5 kg
Number per pallet	13	11	11	2	2
Openings [located]	2" [decentr.]	2" [centr.] and 3/4" [decentr.]	S56 x 4 (PP)	2" [centr.] and 3/4" [decentr.] (steel, galvanized)	2" with 3/4" (PP)
Material	steel	steel	steel with PE	steel	steel with PE

+ Withdrawal system for manual pressure build-up > see page 30



Printed / engraved UN code
includes important safety information and
provides packaging certification

Standard openings
to ensure highest interoperability

Unique, clear and complete labeling
with product specifications
and all relevant hazard declarations

Metal drums are used as
one-way packaging

one-way
packaging

Bottom reservoir
for optimal emptying



Important notice:

Must not be pressurized with inert gas!

Accessories

> page 44 – 45

Opening key (2" / 3/4")
[1.08803.0001]



Antistatic set (3 cables)
[1.07070.0001]



Withdrawal system for manual
pressure build-up [1.01114.0001]



Withdrawal system for manual
pressure build-up in 200 L drums
[1.19171.0001]



Dip tube for 25 L composite drum
(steel/PE) [9.67100.1026]



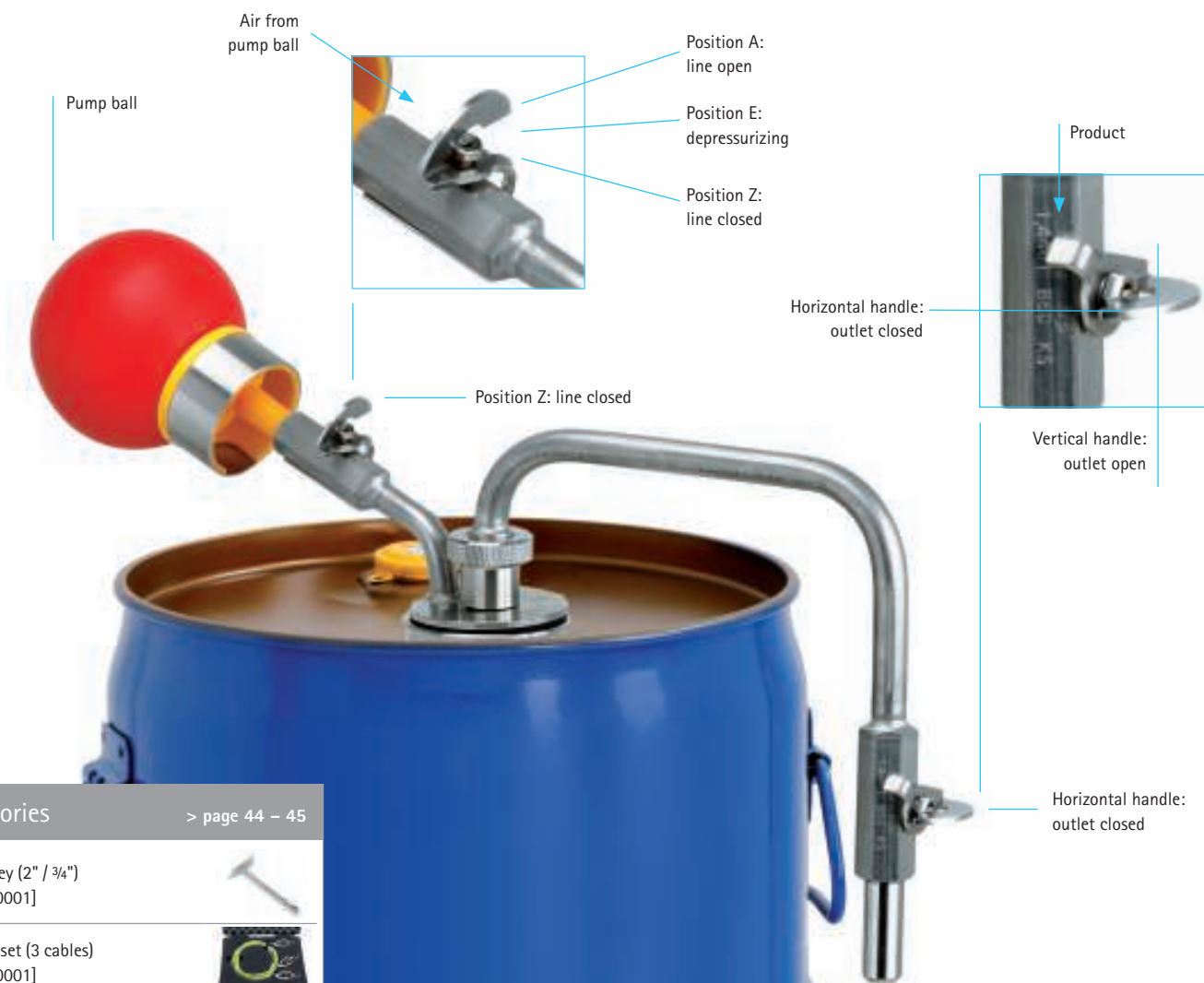
Withdrawal systems for one-way metal drums



Manual pressure build-up

Available for all 10 L and 25 L metal drums with a hand pump ball. Pressure build-up by pump ball

- Safe, easy and convenient solvent handling
- No dependence on gas supply



Accessories

> page 44 – 45

Opening key (2" / 3/4")
[1.08803.0001]



Antistatic set (3 cables)
[1.07070.0001]



Dip tube for 25 L composite drum
(steel/PE) [9.67100.1026]



Spare parts

Dip tube for 10 L drums
[9.67100.1012]



Dip tube for 25 L drums
[9.67100.1028]



Hand pump ball
[9.67114.0000]



System at a glance

Order number	1.01114.0001
Suitability	10 L and 25 L metal and stainless steel drums
Operation mode	Manual pressure build-up by pump ball
Set components	Withdrawal system body with 2" clamp, hand pump ball with rapid-action connector, 10 L dip tube, 25 L dip tube

Manual pressure build-up for high volumes

Available for all 180 L, 190 L and 200 L metal drums. Manual pressure build-up via foot pump.

- Safe, easy and convenient solvent handling
- Usage of tested high quality materials to ensure reliable, contamination free and safe handling of Merck Millipore solvents
- High flexibility due to independence on gas supply
- Adjustable to all 200 L containers with G2 opening



Accessories

> page 44 – 45

Opening key (2" / 3/4")
[1.08803.0001]



Antistatic set (3 cables)
[1.07070.0001]



Reducer (PE) from S56 x 4 to 2" thread
(2" coarse to 2" fine thread)
[9.67202.0000]



System at a glance

Order number	1.19171.0001
Suitability	180 L / 190 L / 200 L metal and stainless steel drums
Operation mode	Manual pressure build-up by foot pump ball
Set components	Withdrawal system body with 2" thread, foot pump ball with flexible tube and rapid-action connector, adjustable dip tube

Barrels – high quality return system

As the global market leader in laboratory reagents, we apply our demanding quality and safety standards not only to our reagents themselves, but also to the containers we supply them in. That's why we continuously develop and improve packaging and tailor-made solvent withdrawal systems that meet the requirements of our customers. Today we are able to provide a broad range of withdrawal systems and containers that is unrivaled by any other manufacturer. Solvent management solutions from Merck Millipore help to improve your materials management, to minimize the environmental impact of packaging waste and health risks for your employees, and to implement more cost-effective disposal processes.

Benefits

- Maximum user safety
- Easy and contamination-free solvent handling
- Application orientated solutions and individual installations
- Ecological and economical benefits

returnable
packaging

10 L



30 L



185 L



Stainless steel barrels | page 32 – 33

Stainless steel, due to its properties (e.g. its inertness), is an ideal packaging material, particularly with regard to the maintenance of the quality of solvents. Merck Millipore has thus been using stainless steel barrels for various types of highly purified solvents for many years. The range of stainless steel barrels currently comprises 10 liter, 30 liter and 185 liter volumes.

- Optimum material characteristics (avoidance of interactions between solvents and packaging material)
- Use as returnable barrels
- Can be combined with a variety of withdrawal systems and level sensors
- Optimum emptying
- Stackable

Withdrawal systems

Take advantage of perfectly matched systems for maximum safety in your individual application.

- ▶ Manual withdrawal system | page 34
- ▶ Withdrawal system with inert gas pressurizing | page 35
- ▶ Direct instrument connections | page 37



Cabinet storage and other varieties | page 36 – 39

Direct connections to instruments or product lines serve as safe option to increase process effectiveness. Customized installations are available on request with individual compilations of necessary products and technical drawings. Please contact your Merck Millipore supplier to discuss your individual requirements.

returnable
packaging

10 L



30 L

Fully sealed stainless steel barrels | page 33

For maximum dryness of our SeccoSolv® range we provide these solvents in specially designed stainless steel barrels with integrated dip tube. By using the appropriate withdrawal system, it is possible to prevent the solvent from contamination with moisture from the atmosphere. These specially tailored systems safeguard solvent quality and keep your analyses safe and dependable.

Withdrawal systems

Take advantage of perfectly matched systems for maximum safety in your individual application.

- ▶ Withdrawal system with inert gas pressurizing | page 35
- ▶ Direct connections | page 37



Stainless steel barrels

[available from 10 L up to 185 L]



Protective cap
with originality sealing

Specially formed rims
for best stackability

Standard openings
to ensure highest interoperability

Safe and easy handling
due to two large handles
(optimal position for grounding clamps)

High quality stainless steel
with extreme durability, inertness and shock resistance
for highest safety and product quality

returnable packaging 

Cost effectiveness and environmental protection
by using the barrel returning process



Technical data

Parameter	10 L barrel	30 L barrel	185 L barrel
Height	31 cm	44 cm	97 cm
Diameter	28 cm	37 cm	58 cm
Wall thickness	1.5 mm	1.5 mm	1.5 mm
Volume	12 L	33.5 L	206 L
Filling quantity	10 L	30 L	185 L
Weight (empty)	5.5 kg	9.6 kg	31 kg
Number per pallet	11	6	2
Openings	2" centrally and 3/4" decentrally located		
Material	stainless steel 1.4301		

- + Withdrawal system for manual pressure build-up > see page 34
- + Withdrawal system for pressurizing with inert gas > see page 35
- + Direct connection to HPLC instruments with HPLC adapters > see page 36



Engraved UN code
includes important safety information
and provides packaging certification

Unique, clear and complete labeling
with product specifications
and all relevant hazard declarations

Bottom reservoir
for optimal emptying



Fully sealed stainless steel barrels

Material: Stainless steel

Available packaging size: 10 L and 30 L barrels

Dimensions and net weight (barrel size):

31 cm, ø 28 cm, 5.5 kg (10 L)

44 cm, ø 37 cm, 9.6 kg (30 L)

Safety: Fully sealed system

Specifics: Maximum protection against water contamination of dried solvents



Accessories

> page 44 – 45

Opening key (2" / 3/4")
[1.08803.0001]



Antistatic set (3 cables)
[1.07070.0001]



Reducing valve, 0.2 bar
[9.67100.9100]



Pressure safety device, 0.5 bar
[9.67100.9004]



Withdrawal system for manual
pressure build-up [1.01123.0001]



Withdrawal system for inert gas
pressurizing [1.06710.0001]



Dip tube for 10 L stainless steel
barrels [9.67100.1040]



Dip tube for 30 L stainless steel
barrels [9.67100.1041]



Dip tube for 185 L stainless steel
barrels [9.67100.1185]



HPLC bottle adapter S40 (supply) with
valve and filter for direct bottle con-
nection to HPLC tubes [1.03830.0001]



Reducer (stainless steel) from 2" to
S40 thread [1.01111.0001]



Withdrawal systems for stainless steel returnable barrels



Manual pressure build-up

- Safe, easy and convenient solvent handling
- Usage of tested high quality materials to ensure a reliable, contamination free and safe handling of Merck Millipore solvents
- High flexibility due to independence on gas supply



Accessories

> page 44 – 45

Opening key (2" / 3/4")
[1.08803.0001]



Antistatic set (3 cables)
[1.07070.0001]



Spare parts

Dip tube for 10 L barrels
[9.67100.1011]



Dip tube for 30 L barrels
[9.67100.1029]



Hand pump ball
[9.67114.0000]



Hand pump ball with quick connector
[9.67100.1079]



System at a glance

Order number	1.01123.0001
Suitability	10 L and 30 L stainless steel barrels
Operation mode	Manual pressure build-up by pump ball
Set components	Withdrawal system body with 2" clamp, hand pump ball with rapid-action connector, 10 L dip tube, 30 L dip tube

Pressurizing with inert gas

- Safe, easy and convenient solvent handling
- Usage of tested high quality materials to ensure a reliable, contamination free and safe handling of Merck Millipore solvents
- Cost effective solution due to economic concept of returnable container handling
- Construction of a central supply system, direct connection to instruments or individual installations as options



Two different **threaded adapters** for avoiding mismatch of gas and product. Horizontal connections available to reduce system height to a minimum.








Self-locking tear-off connectors for quick connection and disconnection

Spiral gas feeding tube
[9.67100.9051]

Safety hook to avoid unintended solvent supply (push safety hook first to unblock the supply handle)

Filling nozzle with stainless steel coated PTFE tube
[9.67100.9090]

Integrated swivel joint to avoid tube tensions

Accessories		> page 44 – 45
Opening key (2" / 3/4") [1.08803.0001]		
Antistatic set (3 cables) [1.07070.0001]		
Reducing valve, 0.2 bar [9.67100.9100]		
Pressure safety device, 0.5 bar [9.67100.9004]		
Necessary complete products		
Dip tube for 10 L barrels [9.67100.1040]		
Dip tube for 30 L barrels [9.67100.1041]		
Dip tube for 185 L barrels [9.67100.1185]		
Spare parts [as shown in the picture]		
Filling nozzle with stainless steel coated, flexible PTFE tube (80 cm) [9.67100.9090]		
Gas feeding tube [9.67100.9051]		
Threaded adapter with horizontal connections [9.67100.9003]		
Threaded adapter with vertical connections [9.67100.9002]		

System at a glance

Order number	1.06710.0001
Suitability	10 L, 25 L and 190 L stainless steel drums 10 L, 30 L and 185 L stainless steel barrels
Operation mode	Pressurizing with inert gas (house gas / gas bottle)
Set components	Filling nozzle with stainless steel coated, flexible PTFE tube, 80 cm [9.67100.9090], gas feeding tube [9.67100.9051], threaded adapter with vertical connections [9.67100.9002]

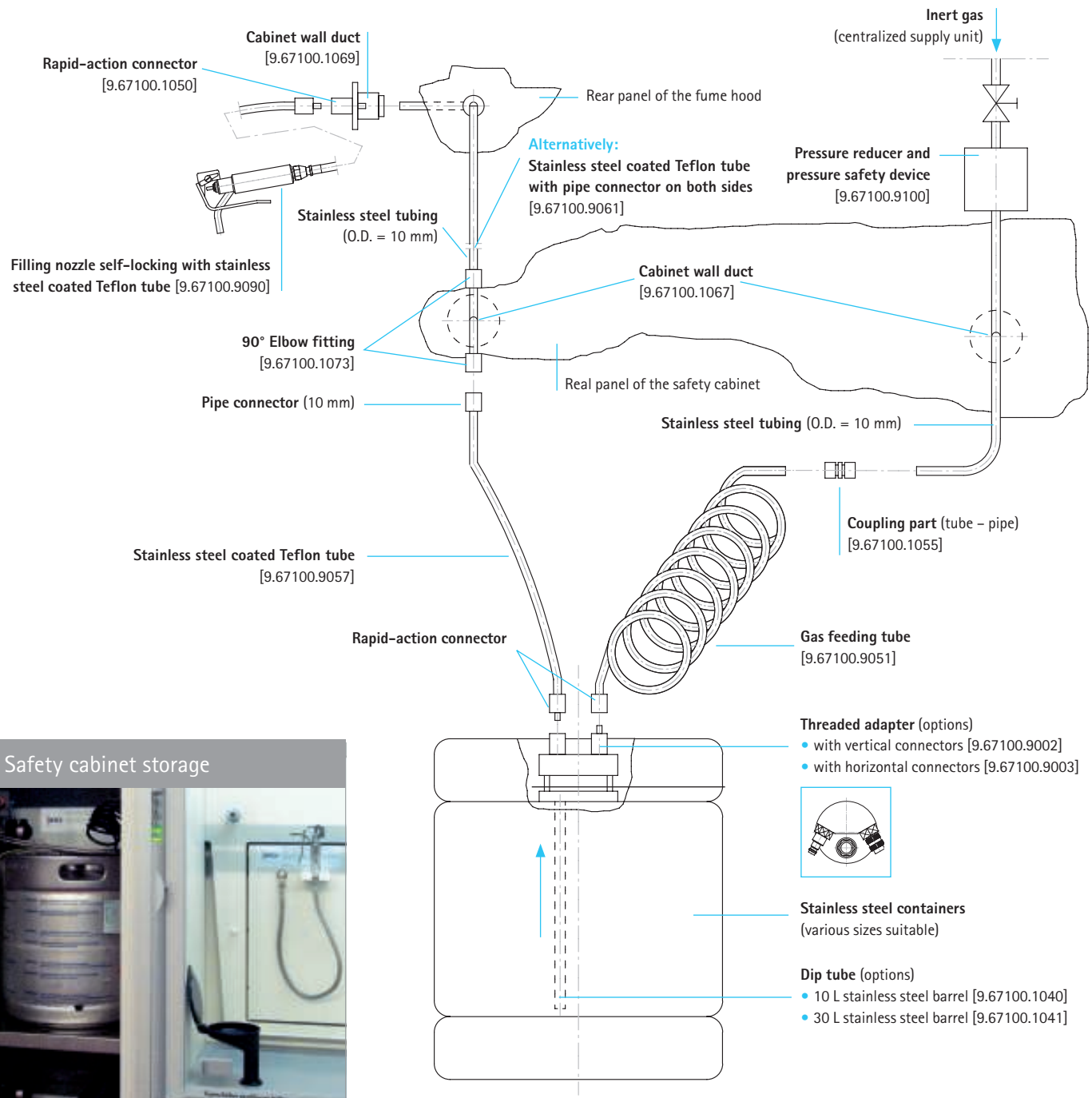
Cabinet storage and direct connections



Safety cabinet storage

Fixed withdrawal system with flexible filling nozzle

Using special installations our customers reach maximum safety standards in solvent handling. One important option is to store solvent barrels inside a safety cabinet. A customized installation with stainless steel tubing directly from the safety cabinet to the fume hood avoids having any open solvent barrel in the laboratory during solvent withdrawal. A filling nozzle placed easily accessible inside the fume hood can be safely operated, while the solvent barrel itself is stored inside the safety cabinet. No hazardous solvent vapors enter the laboratory, thus ensuring maximum safety for users and environment. **Please ask us for your individual installation.**



Safety cabinet storage



Direct connections to existing equipment

HPLC adapter for direct instrument connection

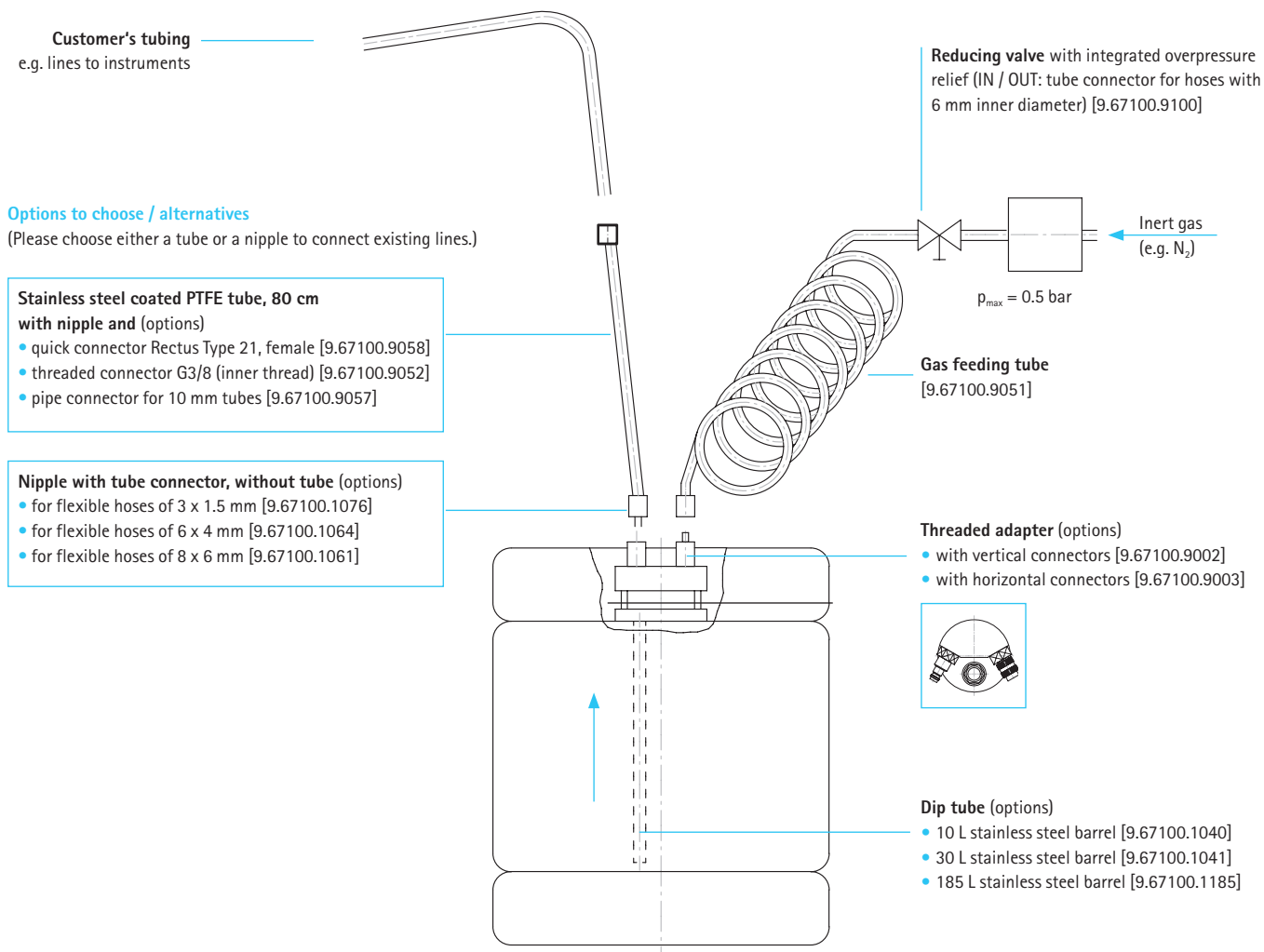


Direct connections of barrels to instruments can be easily done by using an adapter with the HPLC bottle adapter.

Benefits

- Maximum protection of users and environment by avoiding harmful emissions through integrated air vent / air filter
- Reliable analytical results and cost efficiency through contamination free solvent handling in a "closed system"
- Avoiding downtimes with firmly fixed capillaries, thus avoiding the air absorption
- Easy exchange of bottles due to free rotation (360°) of the HPLC adapter inlay

Stainless steel barrel with direct instrument connection



Another option is to connect solvent barrels directly from the safety cabinet to the HPLC instrument, thereby offering maximum user safety and environmental protection. Inert gas back-pressure can be applied to the barrel. Further process security can be provided by using the solvent level sensor technology. **These customized installations are available on request – please contact your Merck Millipore supplier to discuss your individual requirements.**

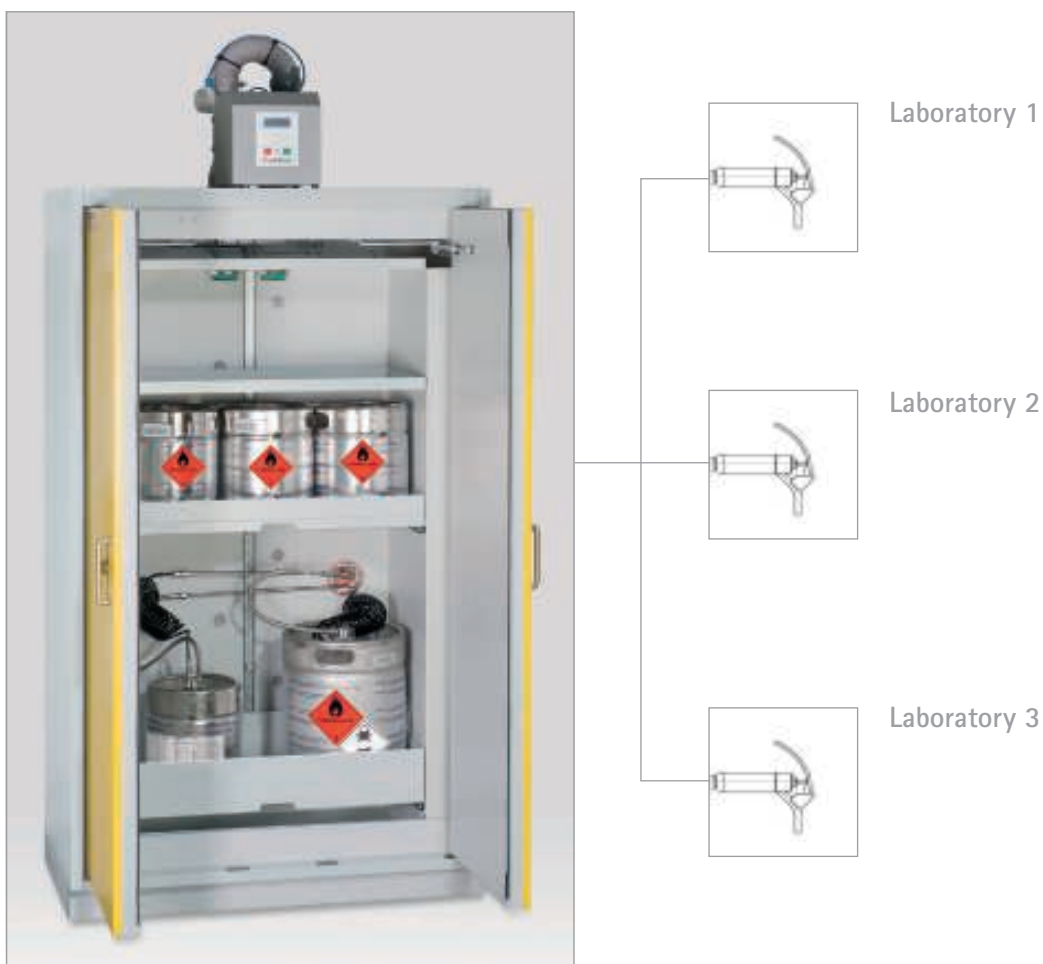
Installation varieties



Central storage and supply

The various options in which individual components can be combined help you to optimize your work processes with regard to safety and efficiency. Where large volumes of solvents are turned around, delivery from a central safety cabinet or safety storage room to the point of use (e.g. laboratory fume hood) through a permanent supply circuit is one of the most rational ways of working.

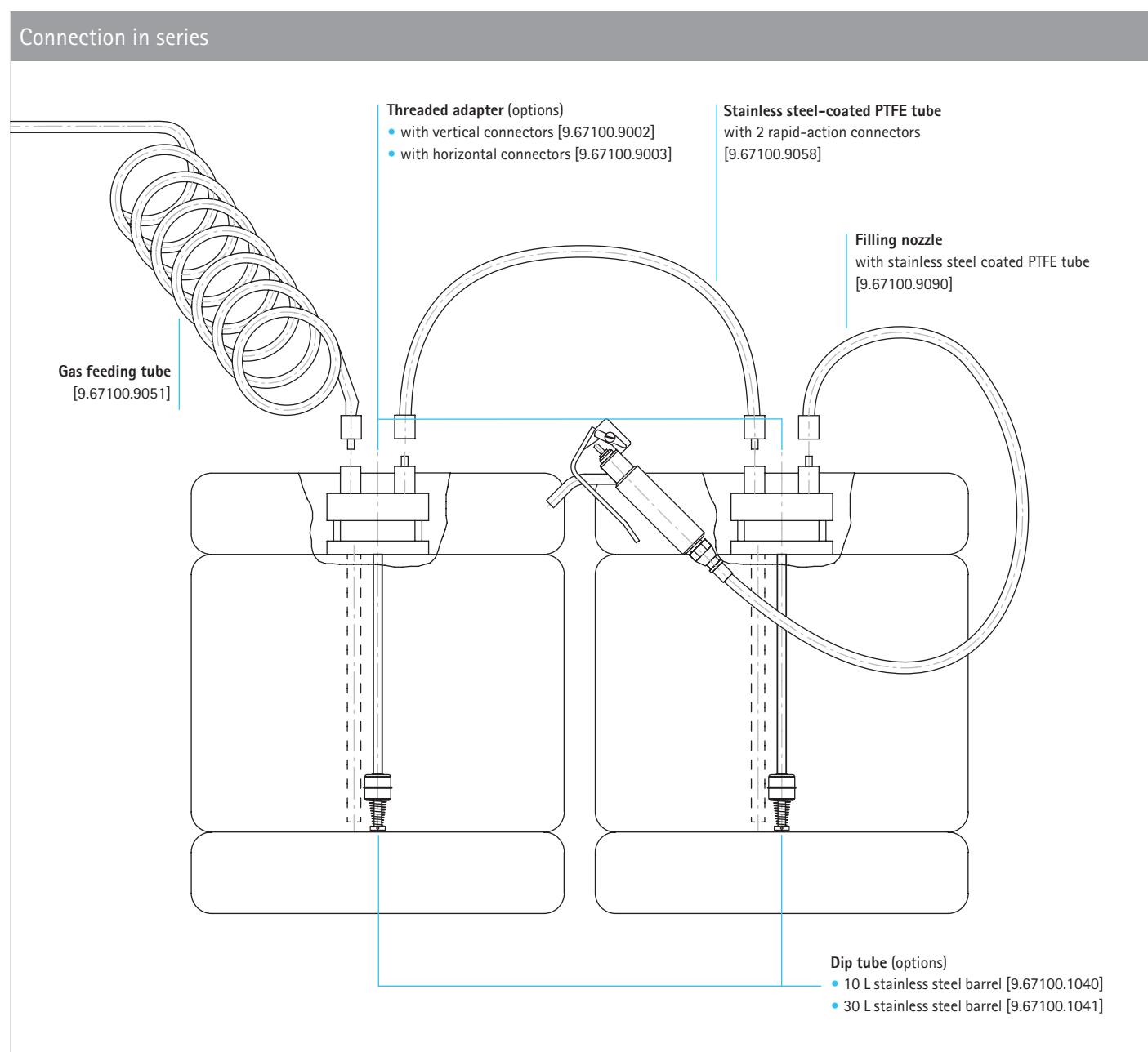
Please talk to your Merck Millipore supplier to find out your individual installation for your maximum safety.



Central supply from one safety cabinet to several laboratories / fume hoods.

Special varieties

Merck Millipore's withdrawal systems cater to virtually any individual application. We provide an extensive range of withdrawal equipment and compatible accessories ranging from standard withdrawal systems for manual pressure build-up and systems that can be pressurized with inert gas, right up to customized solutions for individual installations. Especially for continuous solvent supply (e.g. 24/7 HPLC-run) a connection of several barrels in series could be a solution to reduce the complexity of your lab processes and save valuable time.



Containers for high volumes



Engraved UN code

includes important safety information and provides packaging certification

High quality stainless steel
with extreme durability, inertness and shock resistance for highest safety and product quality

returnable packaging 

Cost effectiveness and environmental protection
by using the container returning process

Retraction shoes
for safe transportation



Technical data
Material: Stainless steel
Available packaging size: 400 L, 1,000 L and 1,400 L

- + Direct connection to existing equipment
- + Sampling unit for product coupling



Standard openings and connections
to ensure highest interoperability

Unique, clear and complete labeling
with product specifications
and all relevant hazard declarations

Bottom reservoir
for optimal emptying

Accessories

> page 44 – 45

Antistatic set (3 cables)
[1.07070.0001]



Spiral gas feeding tube for coupling K
[9.67100.9051]



Adapter for product connection
(coupling M, SPM 08) to 1/2 NPT inner
thread [9.67100.1086]



Sampling unit for coupling M
[9.67400.0001]

Purging adapter for 9.67400.0001
[9.67400.0002]

Sampling unit for 1000 L container
with Seliger coupling [1.67400.0001]

Safety accessories for bottles

▶ Safety accessories for barrels and drums > see page 44 and 45



Handling hazardous goods daily demands highest health protection. Specially for solvents in glass bottles there are several additional safety products available that increase your laboratory safety dramatically.

Bottle key

S40 thread



S28 thread

Bottle key for safe and convenient bottle opening [1.08801.0001]

- Bottle key for opening and closing Merck Millipore bottles with S40 and S28 screw cap
- Perfectly adapted to Merck Millipore bottles
- Maximum user safety
- User-friendly and convenient

Safety carrier for glass bottles



Safety carrier for glass bottles [9.20078.0001 (up to 2.5 L) and 1.40140.0001 (up to 4 L)]

Maximum safety in case of accident:

- Optimal bottle protection due to very effective PE foam buffer
- Additional time buffer for disposal due to solvent resistant materials
- No risk of laceration by glass splinters and no contact with solvents and vapors due to leak proof top cover
- Convenient handling due to stable and broad handle

HPLC Adapter



Adapter for solvent supply
(Ord. No. 1.03830.0001)

Adapter for solvent disposal
(Ord. No. 1.03831.0001)

HPLC Adapter for direct instrument connection

[1.03830.0001 (supply) and 1.03831.0001 + 1.03833.0001 (disposal)]

- Direct instrument adapter for S40-threaded Merck Millipore bottles
- No harmful evaporations
- Contamination-free solvent handling
- Stable eluent mixture ratio without contamination
- Easy exchange of bottles
- Multiple connection possibilities

Label set



Label set according to GHS, DIN EN ISO and GLP

[1.00801.0001]

Safe and convenient:

- Comprehensive label for complete information at a glance according to GHS, DIN EN ISO and GLP including adhesive pictograms and signal words
- Easy to remove due to non-permanent adhesive for residue-free removal
- Label made of chemically resistant plastic

Safety accessories for barrels and drums



Drum key



Drum key for opening and closing Merck Millipore barrels and drums with 2" and 3/4" openings [1.08803.0001]

The specially designed drum key ensures safe and easy handling of the locking device of Merck Millipore barrels and drums with 2" and 3/4" opening.

Antistatic device



Antistatic device for grounding metal containers when dispensing and filling flammable solvents [1.07070.0001]

If flammable liquids (e.g. solvents) are to be withdrawn or filled, the container must be properly grounded according to valid safety regulations to avoid explosions and fire risks. The relevant measures are to be taken to discharge static electricity. The antistatic device set allows quick and safe grounding of all components. It contains three cables for highest flexibility in grounding containers during all work steps. It comes in a suitcase for safe and professional storage of cables that are currently not in use. Cable length: 2 m

Reducing valve



Reducing valve with integrated excess pressure safety device [9.67100.9100]

The pressure reducer with included overpressure relief is one of the safest combined solutions for reducing inert gas house lines to a working pressure of 0.2 bar. The integrated overpressure relieve avoids pressures higher than 0.5 bar inside the barrel according the Pressure Equipment Directive. The pressure reducer is equipped with a ball valve and with two tube connectors 8 x 6 mm.

Pressure safety device



Pressure safety device 0.5 bar
[9.67100.9004]

The pressure safety device is used between the inert gas supply pressure bottle and the Merck Millipore barrel / drum to avoid pressures higher than 0.5 bar inside the barrel / drum according to the Pressure Equipment Directive. It is equipped with two tube connections of 6 x 8 mm.

Stainless steel clamp



Stainless steel clamp for filling nozzle attachment to drums
[9.67106.0001] or to walls [9.67107.0001]

Safety and convenient handling are the basis for an important part of very special Merck Millipore product developments. When using a pressurizing withdrawal system for stainless steel drums the Merck Millipore filling nozzle (9.67100.1090 / 9.67100.9090) can be placed safely even directly on the small rim of the drum by using our screw clamp. For individual solvent withdrawal installations that end with a flexible filling nozzle inside a fume hood, a clamp for wall fastening is now available.

Safety wall ducts



Safety wall ducts for safety cabinets [9.67100.1067]
and fume hoods [9.67100.1069]

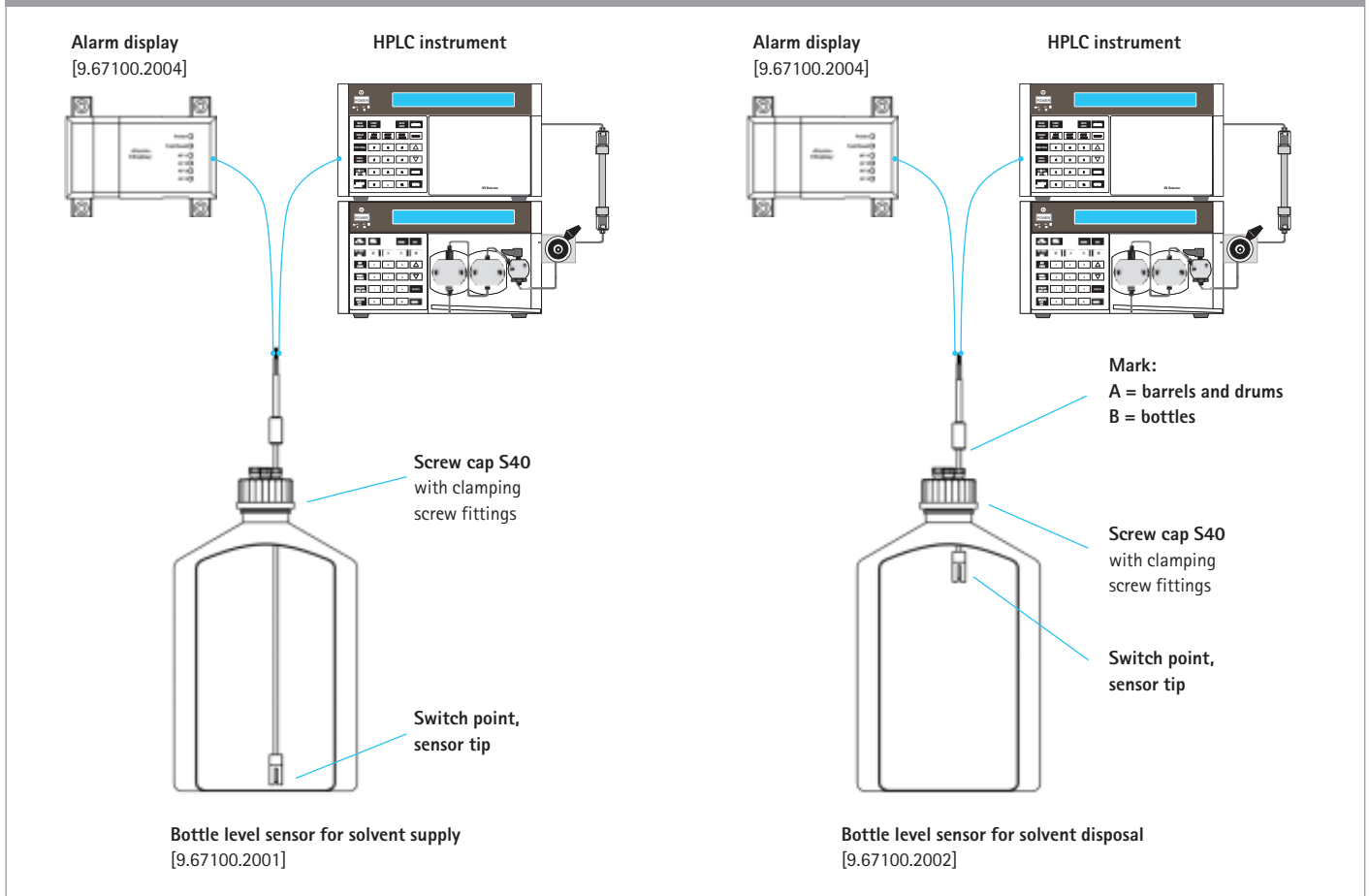
Individual solvent supply installations often include safety cabinets and fume hoods. The cabinet wall duct can be used as the link between the inner and outer side of safety cabinets with a maximum wall thickness of 55 mm. Connection ends are 10 mm tube ends. The hood wall duct can be used as link between the inner and outer side of the fume hood. It provides a 10 mm tube end on the outside and a G3/8 inner thread on the inner side.

Level sensors for process automation

[available for bottles, drums, barrels and containers]



Level sensors for bottles



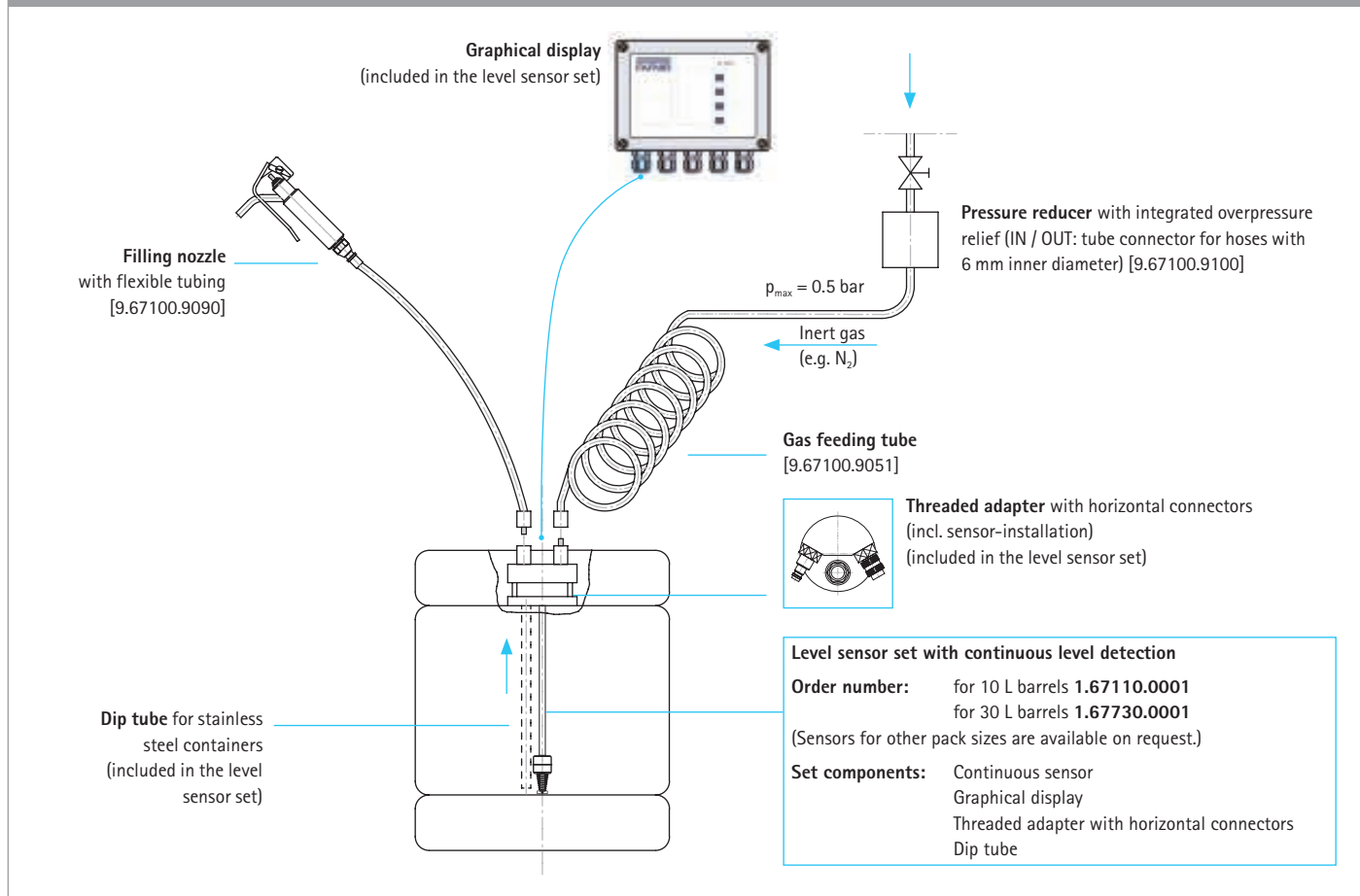
As the pioneer in lab scale level sensing Merck Millipore provides now a safe and convenient solution for process automation in laboratories. Primary for aluminum bottles but also for all other Merck Millipore solvent bottles with S40 thread the sensor is pre-assembled in a screw cap with three connection positions to connect e.g. HPLC tubes of 3 mm directly to the bottle. The S40 screw cap is screwed onto the top of the bottle. With a clamping screw the sensor can be adjusted to several bottle sizes or also to the desired level.

- **Connecting the sensor to an alarm display for optical and acoustic signalling** purposes at the workplace with a built-in acknowledgement function.
- **Connecting the bottle sensor signal directly to an HPLC instrument** allows automatic stopping of the HPLC run to ensure a consistent supply of mobile phase, thus avoiding any reconditioning of the column. For solvent disposal the sensor prevents from overflowing and from the occurrence of harmful situations.





Level sensors for barrels and drums



Maximum safety and reliability for your daily work

Continuous level sensor technology with ATEX approval provides maximum safety and reliability for your daily work. The graphical display always shows the exact solvent level inside the container. With adjustable alarm, individual management, measurement and control of solvent supply and disposal now are available and automatable, e.g. by visible control alarms or automatical control of HPLC instruments.

The new Merck Millipore sensor facilitates the complex functionality of automated solvent handling: Pre-assembled for each pack size and convenient to install. By using the filling nozzle and the gas feeding tube the direct withdrawal can start immediately. For customized installations please contact your local supplier to get direct and individual support.



Customized installations

[available for drums, barrels and containers]



Safe, convenient and reliable solvent supply in complex daily laboratory processes is always a big challenge: Solvent volumes inside the laboratory often are restricted by local regulations. Especially the handling of solvents in breakable containers compulsorily is subject to strict safety regulations. Using customized installations our customers reach maximum safety standards in solvent handling. The various ways in which the different components can be combined will help you optimizing your work processes and thus allocating your valuable lab resources to the essential work.

Where large volumes of solvent are turned around, delivery from a central safety cabinet directly to the points of use (e.g. laboratory fume hood) through a permanent supply circuit is one of the most rational ways of working. To reliably manage solvent supply in HPLC applications with highest safety and minimum resources, a connection of solvent barrels and continuous level sensors directly from the safety cabinet to the HPLC instrument can be the sophisticated solution for you.

As the pioneer in developing high professional and innovative safety equipment for solvents (e.g. level sensors) we are always able to provide additional options for sustainable process automation and highest possible lab safety.

In a cooperative process we develop – together with you – the optimum solution for your individual application and environment.



▶ For more information ...

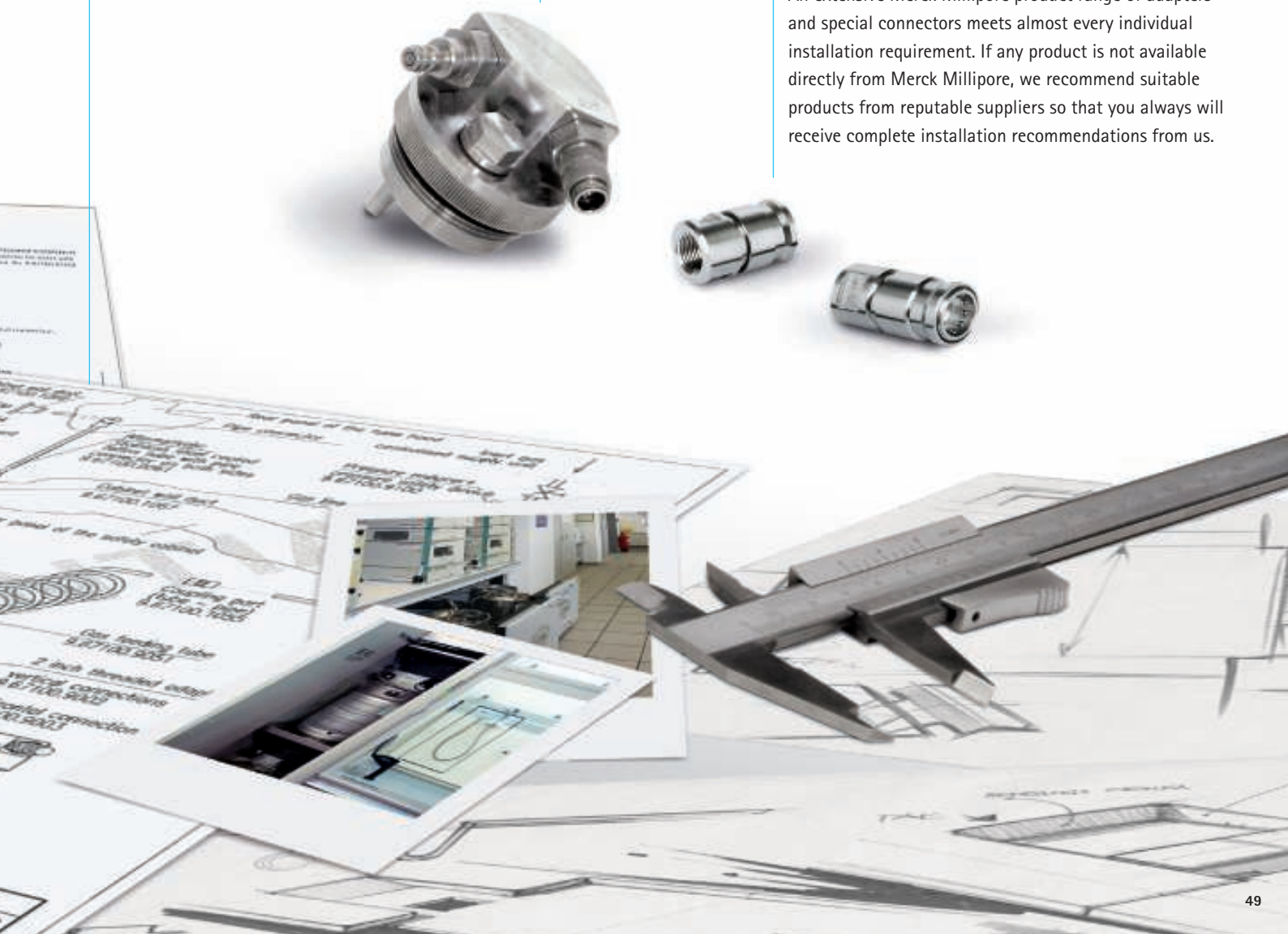
www.merckmillipore.com/solvents-withdrawal

Please do not hesitate to ask your local Merck Millipore supplier for your individual installation.

Technical drawings of our various standard installations provide a first impression of the various installation options.

















We also recommend alternative products for maximum flexibility, e.g. special product developments when space is limited in your lab.

An extensive Merck Millipore product range of adapters and special connectors meets almost every individual installation requirement. If any product is not available directly from Merck Millipore, we recommend suitable products from reputable suppliers so that you always will receive complete installation recommendations from us.





Ordering information

Safety accessories for bottles

Categories	Products	Ord. No.
Connection screw caps	 Adapter S40 for the direct aspiration of solvents through tubes of 3 mm O.D. from bottles with S40 thread (4 openings)	1.09996.0001
	 HPLC bottle adapter with 3 tube connections ID 3.2 mm, solvent supply by Merck Millipore bottles	1.03830.0001
	 HPLC bottle adapter S40 with 3 tube connections and 1 connection for exhaust air filter, solvent disposal	1.03831.0001
	 Air valve for HPLC bottle adapter S40, supply (pack of 10)	1.03832.0001
	 Exhaust air filter for HPLC bottle adapter S40, disposal	1.03833.0001
	 Fittings for capillaries with 3.2 mm O.D., for HPLC bottle adapter S40 (pack of 10)	1.03834.0001
	 PTFE ferrule for capillaries with 3.2 mm O.D., for HPLC bottle adapter S40 (pack of 10)	1.03835.0001
	 Blanking plug for capillary connections with 3.2 mm O.D., for HPLC bottle adapter S40 (pack of 10)	1.03836.0001
	Labels	 Label set according to GHS with 20 blank adhesive labels 80 x 110 mm, 168 adhesive hazard pictograms, 40 adhesive signal words, package insert with H- and P-statements
 Adhesive Labels (pack of 100)		1.08899.0001
Level sensors	 Adapter with S40 thread and level sensor for emptying Merck Millipore solvent bottles	9.67100.2001
	 Adapter with S40 thread and sensor for filling Merck Millipore bottles	9.67100.2002
	 Display and alarm device for bottle level sensor	9.67100.2004
Opening tools	 Bottle key for opening and closing bottles with S40 and S28 screw caps	1.08801.0001
Safety carrier	 Safety carrier for Merck Millipore 2.5 L glass bottles	9.20078.0001
	 Safety carrier for Merck Millipore 4 L glass bottles	1.40140.0001

Withdrawal systems for bottles













Categories	Products	Ord. No.
Withdrawal systems	 Withdrawal system for solvents with manual pressure build-up in Merck Millipore bottles	1.78178.0001
Spare parts and optional products for withdrawal systems	 Conductive tubing for withdrawal system 1.78178.0001, length 40 cm (pack of 5)	1.78179.0001

Safety accessories for barrels and drums












Categories	Products	Ord. No.
Essential safety equipment	 Antistatic device for earthing metal containers when dispensing and filling flammable solvents (set of 3 cables)	1.07070.0001
	 Pressure safety device 0.5 bar with 2 tube connections (6 x 8 mm)	9.67100.9004
	 Reducing valve 0.2 bar with 2 tube connections (6 x 8 mm and integrated excess pressure safety device 0.5 bar)	9.67100.9100
Filling nozzle clamps	 Stainless steel clamp for filling nozzles for drum attachment	9.67106.0001
	 Stainless steel clamp for filling nozzles for wall attachment	9.67107.0001
Labels	 Label set according to GHS with 20 blank adhesive labels 80 x 110 mm, 168 adhesive hazard pictograms, 40 adhesive signal words, package insert with H- and P-statements	1.00801.0001
	 Adhesive Labels (pack of 100)	1.08899.0001
Level sensors	 Continuous level sensor for solvents in 10 L stainless steel barrels	1.67710.0001
	 Continuous level sensor for solvents in 30 L stainless steel barrels	1.67730.0001
Opening tools	 Drum key for opening and closing containers with 2" and 3/4" screw caps	1.08803.0001

Ordering information

Withdrawal systems for barrels and drums













Categories	Products	Ord. No.
Withdrawal systems	 Withdrawal system for solvents with manual pressure build-up for 10 L and 30 L stainless steel barrels with 2" opening	1.01123.0001
	 Withdrawal system for solvents with manual pressure build-up for 10 L and 25 L stainless steel drums with 2" opening	1.01114.0001
	 Withdrawal system for solvents with manual pressure build-up for 200 L barrels and drums	1.19171.0001
	 Withdrawal system for stainless steel barrels and drums with threaded adapter and flexible lines for gas pressurizing (additionally necessary: dip tube suiting the particular type of container)	1.06710.0001
Spare parts and optional products for withdrawal systems	 Dip tube for 10 L stainless steel drums for withdrawal system Ord. No. 1.01114.0001	9.67100.1012
	 Dip tube for 25 L stainless steel drums for withdrawal system Ord. No. 1.01114.0001	9.67100.1028
	 Dip tube for 10 L stainless steel barrels for withdrawal system Ord. No. 1.01123.0001	9.67100.1011
	 Dip tube for 30 L stainless steel barrels for withdrawal system Ord. No. 1.01123.0001	9.67100.1029
	 Hand pump ball for withdrawal systems Ord. No. 1.01114.0001 and 1.01123.0001	9.67114.0000
	 Hand pump with rapid-action connector	9.67100.1079
	 Seal (O-Ring, 14 x 2.5 mm) for withdrawal systems Ord. No. 1.01114.0001 and 1.01123.0001	9.67100.1048
	 Seal (O-Ring, 56 x 3.6 mm) for withdrawal systems Ord. No. 1.01114.0001 and 1.01123.0001 and threaded adapter	9.67100.1047

Withdrawal components for individual installations







Categories	Products	Ord. No.
Adapters and reducers	Adapter (PE) K5 55 x 5 (inner thread) to S40 (outer thread)	1.67208.0001
	Adapter (PE) KS 60 x 6 (inner thread) to S40 (outer thread)	9.67203.0000
	Adapter (PTFE) GL40 (inner thread) to S40 (outer thread)	1.67216.0001
	Bottle adapter (PTFE) S40 (bottle thread) to GL45 (outer thread)	1.67206.0001
	 Bottle adapter (PTFE) S40 (bottle thread) to S38 (outer thread)	1.67207.0001
	 Coupling part between tube (6 x 8 mm) and pipe (O.D. 10 mm)	9.67100.1055
	 Rapid-action connection nipple (gas side) with G3/8 thread	9.67100.1051
	 Rapid-action connector for gas feed tube (8 x 6 mm) or for system venting	9.67100.1052
	 Rapid-action connector for product tube 3 x 1.5 mm	9.67100.1076
	 Rapid-action connector (product side) with G3/8 thread	9.67100.1050
	 Rapid-action nipple for product tube 8 x 6 mm	9.67100.1061
	 Rapid-action nipple with tube connection 6 x 4 mm	9.67100.1064
	Reducer (PE) from S40 to GL45	9.67206.0001
	 Reducer (PE) from S56 x 4 to 2" thread (2" coarse to 2" fine thread)	9.67202.0000
 Reducer (stainless steel) from 2" to 3/4" thread	9.67204.0000	
 Reducer (stainless steel) from 2" to S40 thread	1.01111.0001	

Ordering information

Withdrawal components for individual installations [continued]

Categories	Products	Ord. No.
Filling nozzles and taps	 Filling nozzle (stainless steel) self-locking, with stainless steel-coated PTFE tube (80 cm) with rapid-action connector	9.67100.9090
	 Filling nozzle (tap), self-locking, with G3/8 thread	9.67100.1090
	 Filling nozzle (tap), self-locking, for 10 – 30 L barrels, with G3/8 thread for wall attachment	9.67100.1084
Dip tubes	 Dip tube for 10 L stainless steel drum for withdrawal system with 2" thread adapter	9.67100.1010
	 Dip tube for 25 L stainless steel drum for withdrawal system with 2" thread adapter	9.67100.1025
	 Dip tube for 190 L stainless steel drum for withdrawal system with 2" thread adapter	9.67100.1190
	 Dip tube for 10 L stainless steel barrel for withdrawal system with 2" thread adapter	9.67100.1040
	 Dip tube for 30 L stainless steel barrel for withdrawal system with 2" thread adapter	9.67100.1041
	 Dip tube for 185 L stainless steel barrel for withdrawal system with 2" thread adapter	9.67100.1185
	 Dip tube for 25 L combi container for withdrawal system Ord. No. 1.01114.0001	9.67100.1026
Thread adapters	 Threaded adapter 2" (stainless steel) with 2 vertical rapid-action connectors	9.67100.9002
	 Threaded adapter 2" (stainless steel) with 2 horizontal rapid-action connectors	9.67100.9003

Withdrawal components for individual installations [continued]

Categories	Products	Ord. No.
Tubings	 Spiral gas feeding tube (Nylon) with rapid-action connector (length: 180 cm, FFKM Sealing)	9.67100.9051
	*  Stainless steel-coated PTFE tube (80 cm) with rapid-action nipple and threaded connector G3/8	9.67100.9052
	*  Stainless steel-coated PTFE tube (80 cm) with 2 rapid-action connectors (1x coupling, 1x nipple)	9.67100.9058
	*  Stainless steel-coated PTFE tube (80 cm) with rapid-action coupling and pipe connector (O.D. 10 mm)	9.67100.9062
	 Stainless steel-coated PTFE tube (80 cm) with rapid-action connector and pipe connector (O.D. 10 mm)	9.67100.9057
	*  Stainless steel-coated PTFE tube (100 cm) with pipe connector (O.D. 10 mm) on both sides	9.67100.9061

* Image similar

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For further information on Merck Millipore
and our products contact:

Merck KGaA
64271 Darmstadt, Germany
www.merckmillipore.com
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