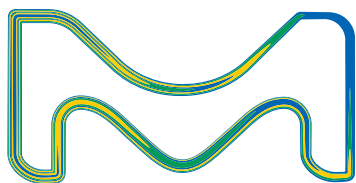


Inorganics on tap

Withdrawal systems and safety
accessories for acids & bases



The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.

Supelco[®]
Analytical Products

Maximum Safety

in daily work with acids & bases

Acids and bases are used every day in labs for numerous applications. They also play a major role in many chemical production processes.

Most acids and bases are **highly corrosive** and pose severe **health hazards**, such as skin burns or eye injuries. Moreover, the need for greater volumes may require a switch from bottles to larger containers, which increases the chance of **spills and accidents**.

The best way to protect yourself from unintended contact with acids and bases is through the use of suitable withdrawal systems. Our unique solutions allow you to safely and easily dispense harmful chemicals from large containers into other, typically smaller, reaction vessels, thereby minimizing risks.

Furthermore, before handling hazardous liquids, you should refer to the product's label and Safety Data Sheet (SDS) to determine its hazard class. Always use appropriate personal protective equipment as recommended in the SDS.



Tap into safety!

Increase personal safety

Secure withdrawal systems prevent accidental contact with corrosive chemicals

Optimize working processes

Quick and easy connections allow safe and convenient handling of acids and bases

Enjoy total flexibility

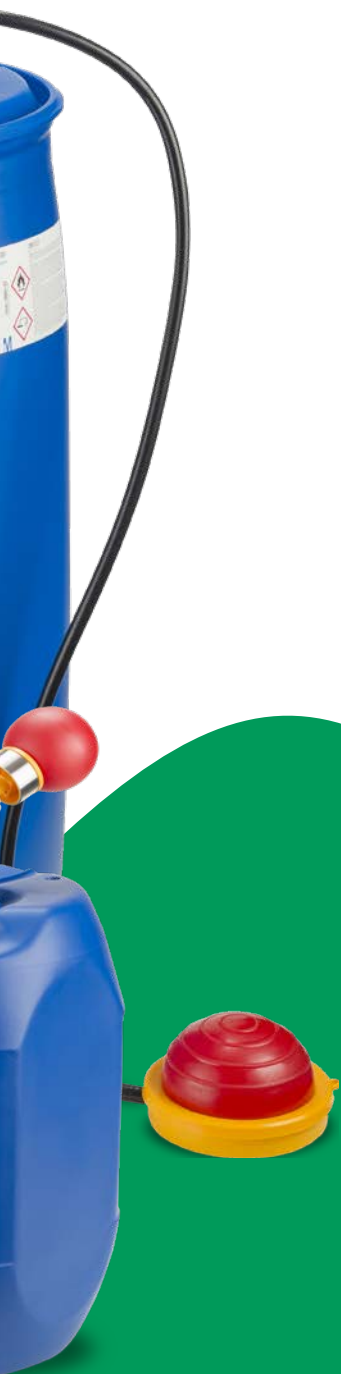
Our interconnectable modular withdrawal systems require no other laboratory supplies (e.g. pressurized air)

Ensure reliability of analytical results

Specially tested materials prevent contamination

Save resources

Use of larger volumes minimizes chemical residues and packaging waste



NEW

Manual withdrawal systems for acids & bases

Manual withdrawal system for acids and bases (PE)

- Made of specially tested high purity polyethylene (PE)
- Suitable for use with all acids and bases (except HNO_3 and H_2SO_4)

Manual withdrawal system specially for Nitric acid and Sulfuric acid (PVDF)

- Made of specially tested high purity polyvinylidene fluoride (PVDF)
- Developed specifically for use with aggressive acids, e.g. HNO_3 and H_2SO_4

Features & Benefits:

- Unique concept allows safe and easy withdrawal of chemicals, preventing accidental contact with contents and vapors
- Flexible, lightweight withdrawal systems with integrated outlet valve and individual pressurizing options
- Integrated check valve protects the pump ball from chemical vapors
- Integrated venting system avoids vacuum development
- No operating supplies required: manual pressure buildup by hand or foot pump ball
- Lower costs through use of larger volumes of 10 l or more

Technical Data

| Parameter | Canister 25 L | Fassett® 25 L |
|-------------------|---------------|---------------|
| Height | 48.8 cm | 50 cm |
| Width | 24.2 cm | 28.5 cm |
| Depth | 29.5 cm | 32.9 cm |
| Volume | 27 L | 30 L |
| Filling quantity | 25 L | 25 L |
| Weight (empty) | 1.25 kg | 1.5 kg |
| Number per pallet | 11 | 8 |
| Openings | KS 60 × 6 | CCS 60x6 |
| Material | PE | PE |



| Parameter | PE drum 200 L |
|-------------------|--------------------------------|
| Height | 93.5 cm |
| Diameter | 58.5 cm |
| Volume | 220 L |
| Filling quantity | 200 L |
| Weight (empty) | 8.4 kg |
| Number per pallet | 2 |
| Openings | S70 × 6 and S38 × 6 |
| Material | Plug: PP white Gasket: PE blue |

Safe withdrawal in 8 simple steps

Check proper operation

Open the container*

Insert dip tube and tighten*

Check outlet valve is closed.

Screw in dispensing head and tighten

Place receptacle under the outlet and open the outlet valve

Pressurize by squeezing the red pump ball and fill the receptacle

Close outlet valve

* use drum key 1.67503.0001

(Always follow local safety regulations and the detailed instructions provided in the manual of the withdrawal system in use.)

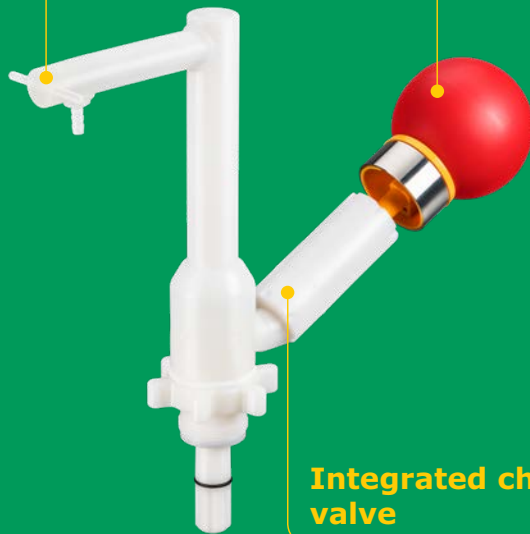
Outlet valve

Rotate to dispense

Outlet valve

○ Open

● Closed



Pump ball

Squeeze to pressurize

Integrated check valve

Protects pump ball from chemical vapors



| Parameter | Combi drum (metal/PE) 25 L* | Combi drum (metal/PE) 180 L* |
|-------------------|-----------------------------|------------------------------|
| Height | 52 cm | 88.5 cm |
| Diameter | 29 cm | 58.8 cm |
| Volume | 28 L | 203 L |
| Filling quantity | 25 L | 180 L |
| Weight (empty) | 3.4 kg | 22 kg |
| Number per pallet | S56 x 4 | 2 x S56 x 4 |
| Openings | S56 x 6 | 2 x S56 x 6 |
| Material | Steel with PE liner | Steel with PE liner |

*With PE liner





Technical data and product suitability

Dispense head (PE) for acids and bases, manual pressure build-up

Dispense head (PVDF) for Nitric acid and Sulfuric acid, manual pressure build-up

Hand pump ball for withdrawal systems

Ord. No. 1.67500.0001 1.67501.0001 9.67114.0000

| 25 l Canister | | | | |
|--|--------------|---|-----|---|
| Sulfuric acid 25% for analysis EMSURE® | 1.00716.9025 | | | |
| Sulfuric acid 40% for determination of gas metabolism acc. to Knipping | 1.09286.9025 | | | |
| Sulfuric acid 90-91% for Gerber fat determination and determination of nitrates in milk | 1.00729.9025 | | | |
| Sulfuric acid 95-97% for analysis (max. 0.005 ppm Hg) EMSURE® ACS,ISO,Reag. Ph Eur | 1.00732.9025 | | ● | ● |
| Sulfuric acid 95-97% for analysis EMPARTA® ACS | 1.01833.9025 | | | |
| Sulfuric acid 95-97% for analysis EMSURE® ISO | 1.00731.9025 | | | |
| Sulfuric acid 98% for analysis EMSURE® | 1.12080.9025 | | | |
| Acetic acid 60% EMPLURA® | 4.80362.9025 | | | |
| Acetic acid 96% for analysis EMSURE® | 1.00062.9025 | | | |
| Acetic acid (glacial) 100% anhydrous for analysis EMSURE® ACS,ISO,Reag. Ph Eur | 1.00063.9026 | | | |
| Acetic acid (glacial) 100% for analysis EMPARTA® ACS | 1.01830.9025 | | | |
| Acetic anhydride for analysis EMSURE® ACS,ISO,Reag. Ph Eur | 1.00042.9025 | | | |
| ortho-Phosphoric acid 85% for analysis EMSURE® ACS,ISO,Reag. Ph Eur | 1.00573.9025 | | | |
| Potassium hydroxide solution 47% for analysis EMSURE® | 1.05545.9025 | ● | (●) | ● |
| Sodium hydroxide solution min. 27% (1.30) for analysis (for the determination of nitrogen) EMSURE® | 1.05591.9025 | | | |
| Sodium hydroxide solution about 32% (for the determination of nitrogen) for analysis EMSURE® | 1.05590.9025 | | | |
| Sodium hydroxide solution about 32% EMPLURA® | 1.05587.9025 | | | |
| Sodium hydroxide solution min. 45% for analysis EMSURE® | 1.11360.9025 | | | |
| Sodium hydroxide solution 50% for analysis EMSURE® | 1.58793.9025 | | | |
| 25l Fassett® | | | | |
| Ammonia solution 25% for analysis EMSURE® | 1.05432.9025 | | | |
| Ammonia solution 28-30% for analysis EMSURE® ACS,Reag. Ph Eur | 1.05423.9025 | | | |
| Formic acid 98-100% for analysis EMSURE® ACS,Reag. Ph Eur | 1.00264.9026 | | | |
| Hydrochloric acid 25% for analysis EMSURE® | 1.00316.9025 | | | |
| Hydrochloric acid 32% EMPLURA® | 1.00313.9025 | ● | (●) | ● |
| Hydrochloric acid 32% for analysis EMSURE® | 1.00319.9025 | | | |
| Hydrochloric acid fuming 37% for analysis EMPARTA® ACS | 1.01834.9025 | | | |
| Hydrochloric acid fuming 37% for analysis EMSURE® ACS,ISO,Reag. Ph Eur | 1.00317.9026 | | | |
| Hydrogen peroxide 35% EMPLURA® | 1.08556.9025 | | | |
| 25 l combi drum (metal with PE inliner) | | | | |
| Nitric acid 65% EMPLURA® | 1.00443.9025 | | | |
| Nitric acid 65% for analysis EMSURE® ISO | 1.00456.9026 | | ● | ● |
| Nitric acid 69% for analysis EMPARTA® ACS | 1.01832.9025 | | | |
| 180 l combi drum (metal with PE inliner) | | | | |
| Nitric acid 65% EMPLURA® | 1.00443.9180 | | ● | |
| Nitric acid 65% for analysis (max. 0.005ppm Hg) EMSURE® ISO | 1.00452.9180 | | | |
| Nitric acid 65% for analysis EMSURE® ISO | 1.00456.9180 | | | |
| Ammonia solution 28-30% for analysis EMSURE® ACS,Reag. Ph Eur | 1.05423.9180 | ● | | |
| 200 l PE drum | | | | |
| Sulfuric acid 95-97% for analysis EMSURE® ISO | 1.00731.9201 | | ● | |
| Acetic acid (glacial) 100% anhydrous for analysis EMSURE® ACS,ISO,Reag. Ph Eur | 1.00063.9200 | | | |
| Acetic acid 96% for analysis EMSURE® | 1.00062.9200 | | | |
| Formic acid 98-100% for analysis EMSURE® ACS,Reag. Ph Eur | 1.00264.9200 | | | |
| Hydrochloric acid 32% EMPLURA® | 1.00313.9180 | | | |
| Hydrochloric acid 32% for analysis EMSURE® | 1.00319.9200 | | | |
| Hydrochloric acid fuming 37% for analysis EMSURE® ACS,ISO,Reag. Ph Eur | 1.00317.9200 | ● | (●) | |
| ortho-Phosphoric acid 85% for analysis EMSURE® ACS,ISO,Reag. Ph Eur | 1.00573.9200 | | | |
| Sodium hydroxide solution 50% for analysis EMSURE® | 1.58793.9200 | | | |
| Sodium hydroxide solution about 32% (for the determination of nitrogen) for analysis EMSURE® | 1.05590.9200 | | | |
| Sodium hydroxide solution about 32% EMPLURA® | 1.05587.9200 | | | |

(●) Alternative option / also suitable alternative material

| | | |
|--|-----------|-----------|
| | Dip tubes | Drum keys |
|--|-----------|-----------|



| | | | | | | | | | | |
|---|--|--|--|--|---|--|--|--|---|---|
| Foot pump ball for dispense heads 167500 and 167501 | Dip tube (PE) for acids and bases in 25l canisters | Dip tube (PE) for acids and bases in 25l Fassetts® | Dip tube (PVDF) for Nitric acid and Sulphuric acid in 25L combi containers | Dip tube (PVDF) for Sulphuric acid in 25 L canisters | Dip tube (PVDF) for acids and bases in 25 l Fassetts® | Dip tube (PVDF) for Nitric acid in 180l combi containers | Dip tube (PE) for acids and bases in 200l PE-drums | Dip tube (PVDF) for Sulphuric acid in 200 l PE drums | Drum key (PE) for opening/closing containers with 2" or 3/4" screw caps made of plastic materials | Container key for opening containers with KS 60x6 screw cap |
|---|--|--|--|--|---|--|--|--|---|---|

| | | | | | | | | | | |
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| 1.67502.0001 | 1.67525.0001 | 1.67526.0001 | 1.67527.0001 | 1.67528.0001 | 1.67529.0001 | 1.67585.0001 | 1.67520.0001 | 1.67521.0001 | 1.67503.0001 | 1.08804.0001 |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|

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Supelco®

Analytical Products

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MerckMillipore.com

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