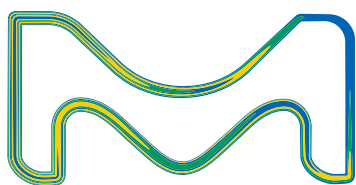


Inorganics on tap

Withdrawal systems and safety
accessories for acids & bases



The life science business
of Merck 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 HNO₃ and H₂SO₄)

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. HNO₃ and H₂SO₄

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.)

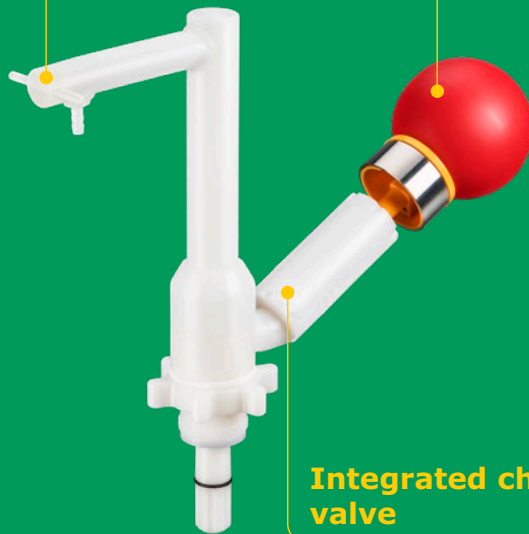
Outlet valve

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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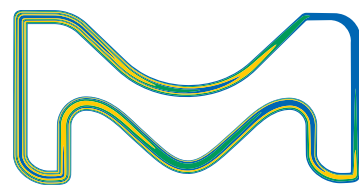
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Supelco®

Analytical Products

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