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

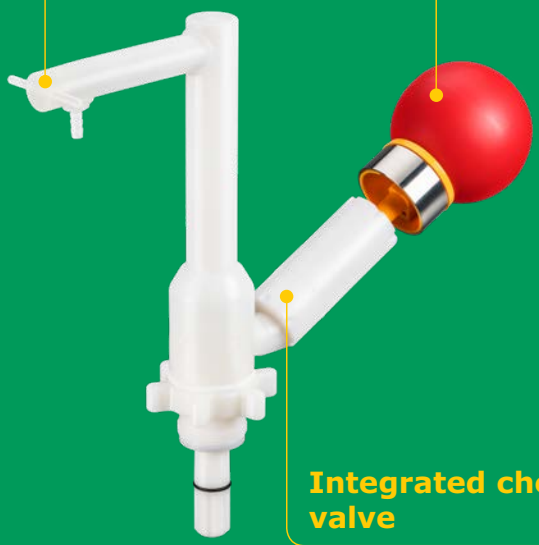
Parameter	PE drum 200 L
Height	93.5 cm
Diameter	58.5 cm
Volume	220 L
Filling quantity	200 L
Weight (empty)	8.4 kg
Number per pallet	2
Openings	S70 × 6 and S38 × 6
Material	Plug: PP white Gasket: PE blue

Safe withdrawal in 8 simple steps

1. **Check proper operation**
2. **Open the container***
3. **Insert dip tube and tighten***
4. **Check outlet valve is closed.**
5. **Screw in dispensing head and tighten**
6. **Place receptacle under the outlet and open the outlet valve**
7. **Pressurize by squeezing the red pump ball and fill the receptacle**
8. **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.)



Parameter	Combi drum (metal/PE) 25 L*	Combi drum (metal/PE) 180 L*
Heigh	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 × 6	2 × S56 × 6
Material	Steel with PE inliner	Steel with PE inliner

*With PE inliner

Technical data and product suitability

		Dispense heads		Pressurizing
				
		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 Sulfuric 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 Sulfuric acid in 200 l PE drums	Drum key (PE) for opening/closing containerswith 2" or 3/4" screw capsmade of plastic materials	Container key for openting containers with KS 60x6 screw cap
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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