

# on cap

Withdrawal systems and safety accessories for acids & bases



The life science busines of Merck operates as MilliporeSigma in the U.S. and Canada.

**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

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#### 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<sub>3</sub> and H<sub>2</sub>SO<sub>4</sub>)

#### 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<sub>3</sub> and H<sub>2</sub>SO<sub>4</sub>

#### **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

# Rotate to dispense Outlet valve Open Closed Integrated check

valve

Protects pump ball from

chemical vapors

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.)

#### **Technical Data**

Canister 25 L	Fassett® 25 L
48.8 cm	50 cm
24.2 cm	28.5 cm
29.5 cm	32.9 cm
27 L	30 L
25 L	25 L
1.25 kg	1.5 kg
11	8
KS 60 × 6	CCS 60x6
PE	PE
	48.8 cm 24.2 cm 29.5 cm 27 L 25 L 1.25 kg 11 KS 60 × 6



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



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



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# Technical data and product suitability

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25   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	_	•	•	•				•					•	•
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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	_							(.)						
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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	_													
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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	•	(•)	•	•		•			(•)				•	•
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Hydrochloric acid fuming 37% for analysis EMSURE® ACS,ISO,Reag. Ph Eur	1.00317.9026	_													
Hydrogen peroxide 35% EMPLURA®	1.08556.9025	_													
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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	_													
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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 I 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	-											( )		
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ortho-Phosphoric acid 85% for analysis EMSURE® ACS,ISO,Reag. Ph Eur	1.00573.9200	_													
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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	_													
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<sup>( )</sup> Alternative option / also suitable alternative material 6

### Supelco<sub>®</sub>

**Analytical Products** 

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