

Liquid Handling catalog



Liquid Handling

 made
in
Germany

DIN EN ISO
DE-M



Witeg Labortechnik GmbH is one of the leading manufacturers and suppliers of laboratory glassware, custom-built glassware, liquid handling articles, electronic witeg instruments and equipment.

Witeg Labortechnik GmbH was founded in the year 1960 to develop glass devices. Nowadays, we can offer beside glass articles almost everything for the laboratories. The products fulfil the very high demands in the chemical, pharmaceutical and medical sectors and are delivered to **more than 100 countries worldwide**. Our actual product range covers **more than 30.000 products** which are mostly **ex stock** available.



Our company's philosophy is preliminary **quality for the customer**. The **quality management system** of witeg Labortechnik has been officially **certified** already in 1994 by the **DIN EN ISO 9001** to guarantee the highest international quality standards. We permanently perform investment in qualified and engaged employees to reach the optimum level of quality. Furthermore, we emphasize to make use of latest computer-aided equipment and technique which is necessary to obtain best performance and utmost quality.

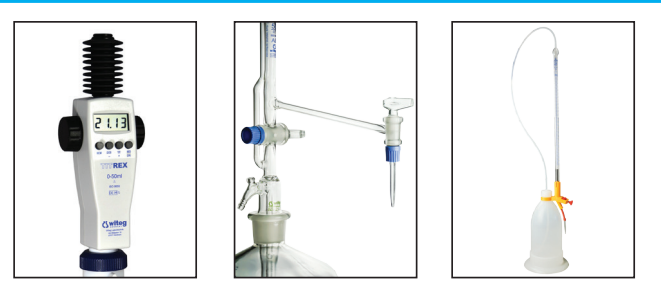


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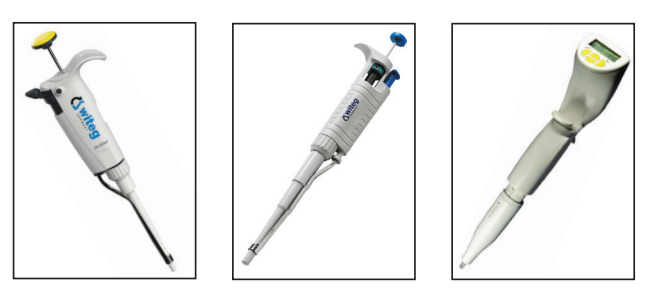
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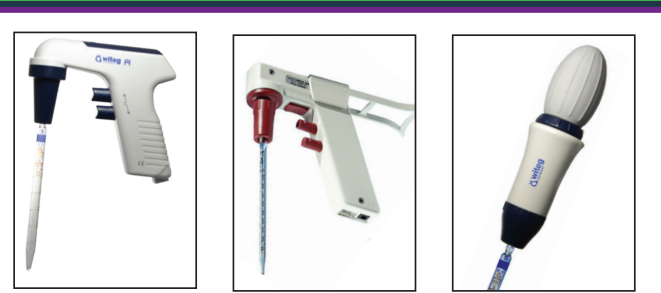
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Bottle-top dispenser

Choose the right dispenser for your application

| | | LABmax premium | LABmax eco | LABmax airless | LABmax airless HF | MINISPENSOR | TITREX |
|-------------------|------------------------|----------------|------------|----------------|-------------------|-------------|--------|
| Suitability | Aqueous solutions | X | X | X | X | X | X |
| | Crystalline solutions | X | X | | | X | X |
| | Solvents | X* | X* | X | X | X* | X* |
| | HF | | | | X | | |
| Volume setting | Quick-lock knob | X | X | | | X | |
| | Adjustment screw | | | X | X | | |
| Special features | Air-purging | X | X | X | X | | X |
| | 180° drip-free system | X | X | X | X | | X |
| | Zero loss of reagent | X | X | | | | X |
| | 360° safety turn | X | X | X | X | | X |
| | Built-in recalibration | X | | | | | X |
| Autoclavable | at 121°C | X | X | X | X | X | X** |
| Dispensing system | Direct displacement | X | X | | | X | X |
| | Contactless piston | | | X | X | | |
| Certifications | Individual certificate | X | X | X | X | X | X |
| | DE-M marked | X | X | X | X | X | X |

*For detailed information regarding the chemical resistance of the dispenser, please see page 16.

**Only valve block autoclavable.



LABmax premium

The universal dispenser **LABMAX premium** has a sophisticated system which allows air purging and draining without any loss of reagent! Due to the direct displacement system **LABMAX premium** is ideal for crystalline solutions. We improved the adjust knob for a quick and precise volume setting. In addition, we added the built-in recalibration mechanism.

Screw mechanism for easy recalibration of the piston

Quick-adjust knob for precise and fast volume setting

Piston with PTFE protected Viton O-ring completely displaces the liquid during dispensing

Glass cylinder with protective plastic coating for clear view of the liquid

Screw cap for complete disassembly and easy cleansing of the piston and cylinder

Rotatable discharge tube with protective sleeve

0° Dosing mode
90° Air-purging mechanism
180° Drip-free rest position
ZERO LOSS OF REAGENT

Liquid Handling



360° rotatable valve block - the label of the reagent bottle is always visible



Premium Design - Premium Performance - Premium Quality

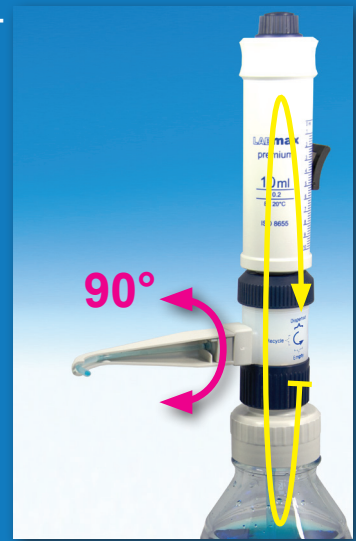


Quick and precise volume setting

Adjusting the volume of **LABMAX premium** is now even simpler: Just push the re-designed quick-adjust knob – slide to the desired volume– release – that's all! Moreover, two scales are printed on the dispenser for adjustments in milliliter or ounces.

Perfect air-purging mechanism for 0% reagent loss

Turn the discharge tube at 90°. Remove (purge) trapped air without reagent loss by pumping in a closed circuit: The reagent flows back into the bottle! After pumping 2 - 3 times the dispenser is free of air and ready to use. This special feature helps not only to save residual reagent but also when accidentally setting the wrong volume!



Easy and fatigue-proof dispensing

Turn the discharge tube into the dosing mode and enjoy dispensing with **LABMAX premium**. The piston of **LABMAX premium** completely discharges the reagent with each stroke. The dispensing glass cylinder is protected with a transparent plastic coating which allows the user to view the liquid in the glass cylinder. The protective coating also reduces the risk of breakage!

100% drip-free system for your safety

By turning the discharge tube at 180° all liquid flows back into the bottle. **LABMAX premium** is completely closed and no accidental discharge can occur by inadvertently moving the piston. There is absolutely no dripping possible!



360°-turn for your added safety

No matter how much you tighten **LABMAX premium**, you can always redirect the discharge tube by simply turning the valve block to the desired position. This way the label of the bottle is always visible. This feature works for all our adapters. Adapters for different bottle threads can remain on the bottle.

“Do-it-yourself” recalibration for a long life time

If you use **LABMAX premium** as a measuring device in conformity to ISO 9001 and GLP, you may also want to control and monitor its accuracy and reliability. The piston can easily be recalibrated by turning an internal screw!



Liquid Handling
made
in
Germany**NEW****Built-in recalibration****Zero loss of reagent**

scale for ml and oz



6 sizes: 0.25-100ml

Your advantage at a glance:

- high-quality precision instrument, made in Germany
- **best in its class performance, most competitive pricing**
- highest accuracy and precision, our error ranges are better than the DIN EN ISO 8655-5 requirements
- **all-purpose dispenser, universal chemical compatibility**
- direct displacement piston system, ideal for crystalline solutions
- **built-in recalibration mechanism including calibration tool**
- robust and stable, made of high quality materials e.g. platinum springs
- 0% loss of reagent by pumping in a closed circuit
- 100% drip-free due to our unique anti-drip system
- 360° rotatable valve block for added safety
- with 2 scales - for measurements in millilitre and ounces
- one handed operation
- flexible by using different bottle adapters
- easy to clean, completely autoclavable at 121°C
- telescopic suction tube included in scope of supply
- individual certificate and serial number
- DE-M marked according to the German calibration law

LABmax premium

| Volume ml | Division ml | Systematic errors ± ml | Random errors ≤ ml | Thread GL | Order number |
|---------------|----------------|---------------------------|-----------------------|--------------|--------------|
| 0.25 - 2.5 | 0.05 | 0.012 | 0.002 | 32 | 5 370 901 |
| 0.5 - 5.0 | 0.10 | 0.03 | 0.005 | 32 | 5 370 902 |
| 1.0 - 10.0 | 0.20 | 0.06 | 0.01 | 32 | 5 370 903 |
| 2.5 - 25.0 | 0.50 | 0.15 | 0.025 | 45 | 5 370 904 |
| 5.0 - 50.0 | 1.00 | 0.3 | 0.05 | 45 | 5 370 905 |
| 10.0 - 100.0* | 2.00 | 0.5 | 0.1 | 45 | 5 370 906 |

Scope of supply

LABmax premium, telescopic suction tube, discharge tube, instruction manual, calibration tool, individual certificate, serial number, thread adapter (2.5/5.0/10.0 ml: A25, A28, A45, S40 | 25.0/50.0/100.0 ml: A25, A28, A32/45, S40)

Parts in contact with reagent:

The components having direct contact with the reagent are made of chemical resistant materials: platinum spring, ceramic valve balls, PTFE piston, borosilicate glass 3.3 cylinder, borosilicate glass 3.3 valve

* 100 ml version with adjustment screw for volume setting

The economical and ecological way to dispense

Dispensing with **LABMAX eco** is both economic and ecologically friendly. This standard-dispenser is usable for nearly all liquid dispensing applications in the lab and is especially **ECO**nomically priced. Use the “recycling mode” for an **ECO**logical air-purging and draining without any loss of reagent!

Quick and precise volume setting

Adjusting the volume of **LABMAX eco** is very simple: Just push the quick-adjust knob – slide to the desired volume– release – that’s all!



Perfect air-purging mechanism for 0% reagent loss

Turn the discharge tube at 90°. Remove (purge) trapped air without reagent loss by pumping in a closed circuit: The reagent flows back into the bottle!

After pumping 2 - 3 times the dispenser is free of air and ready to use.

This special feature helps not only to save residual reagent but also when accidentally setting the wrong volume!



360°-turn for your added safety

No matter how much you tighten **LABMAX eco**, you can always redirect the discharge tube by simply turning the valve block to the desired position. This way the label of the bottle is always visible.

This feature works for all our adapters. Adapters for different bottle threads can remain on the bottle.



100% drip-free system for your safety

By turning the discharge tube at 180° all liquid flows back into the bottle. **LABMAX eco** is completely closed and no accidental discharge can occur by inadvertently moving the piston.

There is absolutely no dripping possible!



Liquid Handling
made
in
Germany

7 sizes: 0.25-250ml

Your advantage at a glance:

- high quality precision instrument, made in Germany
- **all-purpose dispenser, universal chemical compatibility**
- highest accuracy and precision, our error ranges are better than the DIN EN ISO 8655-5 requirements
- most affordable price in its class
- direct displacement piston system, ideal for crystalline solutions
- robust and stable, made of high quality materials e.g. platinum springs
- **0% loss of reagent by pumping in a closed circuit**
- **100% drip-free due to our unique anti-drip system**
- 360° rotatable valve block for added safety
- one handed operation
- flexible by using different bottle adapters
- easy to clean, completely autoclavable at 121°C
- 250ml dispenser available
- individual certificate and serial number
- DE-M marked according to the German calibration law

LABmax eco

| Volume ml | Division ml | Systematic errors ± ml | Random errors ≤ ml | Thread GL | Order number |
|----------------|----------------|---------------------------|-----------------------|--------------|--------------|
| 0.25 - 2.5 | 0.05 | 0.012 | 0.002 | 32 | 5 370 001 |
| 0.5 - 5.0 | 0.10 | 0.03 | 0.005 | 32 | 5 370 002 |
| 1.0 - 10.0 | 0.20 | 0.06 | 0.01 | 32 | 5 370 003 |
| 2.5 - 25.0 | 0.50 | 0.15 | 0.025 | 45 | 5 370 004 |
| 5.0 - 50.0 | 1.00 | 0.3 | 0.05 | 45 | 5 370 005 |
| 10.0 - 100.0* | 2.00 | 0.5 | 0.1 | 45 | 5 370 006 |
| 25.0 - 250.0** | 5.00 | 1.2 | 0.25 | 45 | 5 370 007 |

Scope of supply

LABmax eco, suction tube, discharge tube, instruction manual, individual certificate, serial number, thread adapter (2.5/5.0/10.0 ml: A25, A28, A45, S40 | 25.0/50.0/100.0 ml: A25, A28, A32/45, S40 | 250 ml: A25, A28, A32/45, A38, S40)

Parts in contact with reagent:

The components having direct contact with the reagent are made of chemical resistant materials: platinum spring, ceramic valve balls, PTFE piston, borosilicate glass 3.3 cylinder, borosilicate glass 3.3 valve

* 100 ml version with adjustment screw

** 250 ml version with adjustment screw and **no** air-purging mechanism

The specialist for solvents with automatic air-purging

The universal-dispenser **LABMAX airless** is equipped with an automatic air-purging system: your dispenser is ready to use after no more than two dosings. The contact-less piston system allows smooth and easy dispensing and makes this dispenser ideal for solvents.



360°-turn for your added safety

No matter how much you tighten **LABMAX airless**, you can always redirect the discharge tube by simply turning the valve block to the desired position. This way the label of the bottle is always visible. This feature works for all our adapters. Adapters for different bottle threads can stay on the bottle!

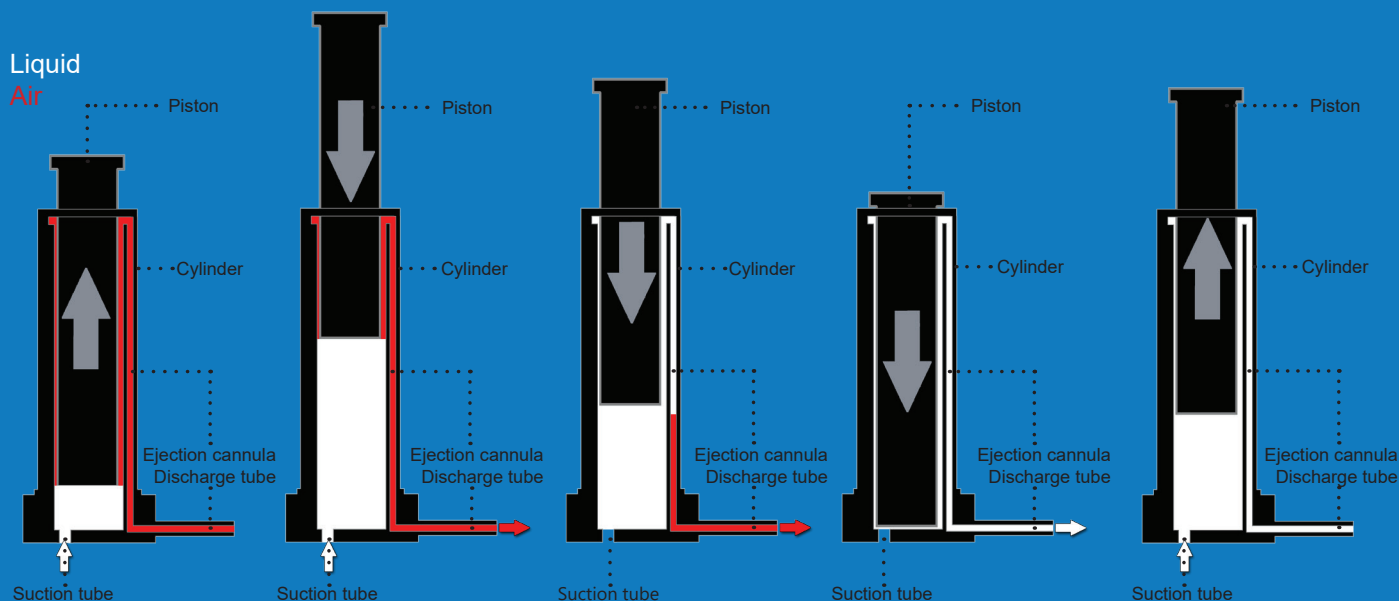
100% drip-free system for your safety

By turning the discharge tube at 180° all liquid flows back into the bottle. **LABMAX airless** is completely closed and no accidental discharge can occur by inadvertently moving the piston. There is absolutely no dripping possible!



Automatic air-purging

To ensure accurate volume it is necessary that the device is free from air before dispensing. All **LABMAX airless** models have an automatic air purging system. Air, lighter than liquid, passes off the device automatically through the special ejection channel and discharge tube. A contamination of the bottle content is not possible.





Specialist for solvents



6 sizes: 0.25-100ml

Your advantage at a glance:

- high quality precision instrument, made in Germany
- all-purpose dispenser with automatic air-purging, ideal for solvents
- **contactless piston system, ideal for PTFE swelling solvents**
- highest accuracy and precision, our error ranges are better than the DIN EN ISO 8655-5 requirements
- robust and stable, made of high quality materials e.g. platinum springs
- **100% drip-free due to our unique anti-drip system**
- 360° rotatable valve block for added safety
- one handed operation
- flexible by using different bottle adapters
- easy to clean, completely autoclavable at 121°C
- individual certificate and serial number
- DE-M marked according to the German calibration law

LABmax airless

| Volume ml | Division ml | Systematic errors ± ml | Random errors ≤ ml | Thread GL | Order number |
|--------------|----------------|---------------------------|-----------------------|--------------|--------------|
| 0.25 - 2.5 | 0.05 | 0.012 | 0.002 | 32 | 5 370 801 |
| 0.5 - 5.0 | 0.10 | 0.03 | 0.005 | 32 | 5 370 802 |
| 1.0 - 10.0 | 0.20 | 0.06 | 0.01 | 32 | 5 370 803 |
| 2.5 - 25.0 | 0.50 | 0.15 | 0.025 | 45 | 5 370 804 |
| 5.0 - 50.0 | 1.00 | 0.3 | 0.05 | 45 | 5 370 805 |
| 10.0 - 100.0 | 2.00 | 0.5 | 0.1 | 45 | 5 370 806 |

Scope of supply

LABmax airless, suction tube, discharge tube, instruction manual, individual certificate, serial number, thread adapter (2.5/5.0/10.0 ml: A25, A28, A45, S40 | 25.0/50.0/100.0 ml: A25, A28, A32/45, S40)

Parts in contact with reagent:

The components having direct contact with the reagent are made of chemical resistant materials: platinum spring, ceramic valve balls, PTFE cylinder, borosilicate glass 3.3 piston, borosilicate glass 3.3 valve

The specialist for hydrofluoric acid with automatic air-purging

LABMAX airless HF is a special dispenser for hydrofluoric acid (HF). The components which have direct contact with the acid are made of HF-resistant materials. **LABMAX airless HF** is equipped with an automatic air-purging system: Your dispenser is ready to use after no more than two dosings.



360°-turn for your added safety

No matter how much you tighten **LABMAX airless HF**, you can always redirect the discharge tube by simply turning the valve block to the desired position. This way the label of the bottle is always visible. This feature works for all our adapters. Adapters for different bottle threads can stay on the bottle!

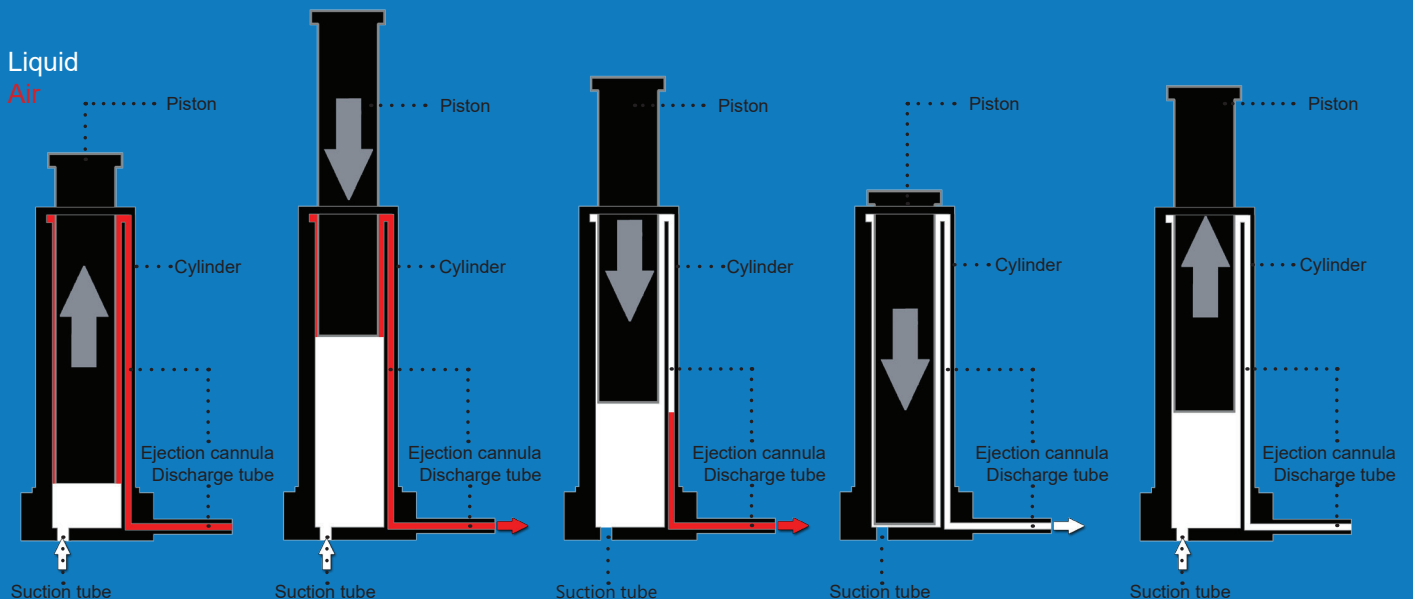
100% drip-free system for your safety

By turning the discharge tube at 180° all liquid flows back into the bottle. **LABMAX airless HF** is completely closed and no accidental discharge can occur by inadvertently moving the piston. There is absolutely no dripping possible!



Automatic air-purging

To ensure accurate volume, it is necessary that the device is free from air before dispensing. All **LABMAX airless HF** models have an automatic air purging system. Air, lighter than liquid, passes off the device automatically through the special ejection channel and discharge tube. A contamination of the bottle content is not possible.





3 sizes: 1-50ml

Your advantage at a glance:

- high quality precision instrument, made in Germany
- **special dispenser, ideal for hydrofluoric acid**
- highest accuracy and precision, our error ranges are better than the DIN EN ISO 8655-5 requirements
- **robust and stable, made of high quality materials e.g. platinum spring, ruby valve balls, sapphire valve, PTFE**
- 100% drip-free due to our unique anti-drip system
- 360° rotatable valve block for added safety
- one handed operation
- flexible by using different bottle adapters
- easy to clean, completely autoclavable at 121°C
- individual certificate and serial number
- DE-M marked according to the German calibration law

LABmax airless HF suitable for hydrofluoric acid

| Volume ml | Division ml | Systematic errors ± ml | Random errors ≤ ml | Thread GL | Order number |
|--------------|----------------|---------------------------|-----------------------|--------------|--------------|
| 1.0 - 10.0 | 0.20 | 0.06 | 0.01 | 32 | 5 370 823 |
| 2.5 - 25.0 | 0.50 | 0.15 | 0.025 | 45 | 5 370 824 |
| 5.0 - 50.0 | 1.00 | 0.3 | 0.05 | 45 | 5 370 825 |

Scope of supply

LABmax airless HF, suction tube, discharge tube, instruction manual, individual certificate, serial number, thread adapter (10.0 ml: A25, A28, A45, S40 | 25.0/50.0 ml: A25, A28, A32/45, S40)

Parts in contact with reagent:

The components having direct contact with the reagent are made of chemical resistant materials: platinum spring, ruby valve balls, sapphire valve, PTFE cylinder, PTFE piston

The economical and ecological alternative to microliter pipettes

The **MINISPENSOR** is ideal for long pipetting series where you need a fixed micro-volume. In contrast to fixed volume microliter pipettes, no pipette tips are required. There are four color-coded models available, with two definite volumes in a range of 50 μ l to 2000 μ l. You can simply change the dispensing volume to 50% by turning the push button.

Volume setting



Each **MINISPENSOR** is able to dispense two definite volumes. They are easy to set: Just push and turn the button at 180°.

Dispensing system



The direct displacement system of the **MINISPENSOR** is for universal use and ideal for crystalline solutions.

One handed dispensing



The **MINISPENSOR** can easily be used with just one hand.

“Pipetting” without tips

Liquid Handling
made
in
Germany



4x2 Fix-volumina

Your advantage at a glance:

- high quality precision instrument, made in Germany
- **alternative to microliter pipettes - no tips required!**
- suitable for most liquids, ideal for crystalline solutions
- highest accuracy and precision according DIN EN ISO 8655-5 requirements
- direct displacement piston system
- comfortable handling for larger pipetting series
- four color-coded models available
- easy volume setting, two definite volumes each dispenser
- easy to clean, autoclavable at 121°C
- suitable for safe storage in a fridge
- automatic refilling, one handed operation
- individual certificate and serial number
- DE-M marked according to the German calibration law

MINISPENSOR

| Volume µl | Systematic errors ± µl | Random errors ≤ µl | Color | Thread GL | Order number |
|--------------|---------------------------|-----------------------|--------|--------------|--------------|
| 50 + 100 | 1.5 | 0.3 | yellow | 32 | 5 371 101 |
| 250 + 500 | 5 | 1 | red | 32 | 5 371 525 |
| 500 + 1000 | 6 | 2 | blue | 32 | 5 371 950 |
| 1000 + 2000 | 12 | 4 | green | 32 | 5 371 990 |

Scope of supply

MINISPENSOR, 100ml bottle with safety coating (GL 28), instruction manual, individual certificate, serial number, thread adapter (GL 28/GL 32)

Parts in contact with reagent:

The components having direct contact with the reagent are made of chemical resistant materials: ceramic valve balls, PTFE piston, borosilicate glass 3.3 cylinder, borosilicate glass 3.3 valve

DISPENSER LABMAX

Areas of application / chemical compatibility list

| Reagent | Premium | Airless | ECO Minisensor | Reagent | Premium | Airless | ECO Minisensor | Reagent | Premium | Airless | ECO Minisensor |
|------------------------|---------|---------|----------------|--------------------------|---------|---------|----------------|--|---------|---------|----------------|
| Acetaldehyde | * | * | * | Cyclohexane | | * | | Monochloroacetic acid | * | | * |
| Acetic acid 100% | * | * | * | Cyclohexanone | * | * | * | Nitric acid 30% | * | * | * |
| Acetic acid 96% | * | * | * | Cyclopentane | | * | | Nitric acid 30-70% | * | * | * |
| Acetic anhydride | * | * | * | Decane | * | * | * | Nitrobenzene | * | * | * |
| Acetone | * | * | * | 1-Decanol | * | * | * | Oleic acid | * | | * |
| Acetonitrile | * | * | * | Dibenzyl ether | * | * | * | Oxalic acid | * | | * |
| Acetophenone | | * | | Dichlorobenzene | * | * | * | n-Pentane | | * | |
| Acetylacetone | * | * | * | Dichloromethane | | * | | Peracetic acid | * | * | * |
| Acetyl chloride | | * | | Dichloroacetic acid | * | * | * | Perchloric acid | * | * | * |
| Acrylic acid | * | * | * | Dichloroethane | | * | | Perchloroethylene | | * | |
| Acrylonitrile | * | * | * | Dichloroethylene | | * | | Petroleum | | * | |
| Adipic acid | * | | * | Diesel oil | | * | | Petroleum ether | | * | |
| Allyl alcohol | * | * | * | Diethanolamine | * | * | * | Phenol | * | * | * |
| Aluminium chloride | * | | * | Diethyl ether | | * | | Phenylethanol | * | * | * |
| Amino acids | * | | * | Diethylamine | * | * | * | Phenylhydrazine | * | * | * |
| Ammonia 20% | * | * | * | 1,2 Diethylbenzene | * | * | * | Phosphoric acid 85% | * | | * |
| Ammonia 20-30% | * | * | * | Diethylene glycol | * | * | * | Phosphoric acid 85 % +Sulfuric acid 98 %, 1:1 | * | | * |
| Ammonium chloride | * | | * | Dimethyl sulfoxide | * | * | * | Piperidine | * | * | * |
| Ammonium fluoride | * | | * | Dimethylaniline | * | | * | Potassium chloride | * | | * |
| Ammonium sulfate | * | | * | Dimethylformamide | * | * | * | Potassium dichromate | * | | * |
| n-Amyl acetate | * | * | * | 1,4 Dioxane | | * | | Potassium hydroxide | * | | * |
| Amyl alcohol | * | * | * | Diphenyl ether | * | * | * | Potassium permanganate | * | | * |
| Amyl chloride | | * | | Ethanolamine | * | * | * | Propionic acid | * | * | * |
| Aniline | * | * | * | Ethyl acetate | * | * | * | Propylene glycol | * | * | * |
| Barium chloride | * | | * | Ethyl alcohol | * | * | * | Pyridine | * | * | * |
| Benzaldehyde | * | * | * | Ethylbenzene | | * | | Pyruvic acid | * | * | * |
| Benzol | * | * | * | Ethylene chloride | | * | | Salicylaldehyde | * | * | * |
| Benzene | | * | | Fluoroacetic acid | * | | * | Silver acetate | * | | * |
| Benzoyl chloride | * | * | * | Formaldehyde 40% | * | | * | Silver nitrate | * | | * |
| Benzyl alcohol | * | * | * | Formamide | * | * | * | Sodium acetate | * | | * |
| Benzylamine | * | * | * | Formic acid 100% | * | * | * | Sodium chloride | * | | * |
| Benzylchloride | * | * | * | Glycerol | * | * | * | Sodium dichromate | * | | * |
| Boric acid 10% | * | * | * | Glycol | * | * | * | Sodium fluoride | * | | * |
| Bromobenzene | * | * | * | Glycolic acid 50% | * | | * | Sodium hydroxide 30% | * | | * |
| Bromonaphthalene | * | * | * | Heating oil | | * | | Sodium hypochlorite | * | | * |
| Butanediol | * | * | * | Heptane | | * | | Sulfuric acid 98% | * | * | * |
| 1-Butanol | * | * | * | Hexane | | * | | Tartaric acid | * | | * |
| n-Butyl acetate | * | * | * | Hexanoic acid | * | * | * | Tetrachloroethylene | | * | |
| Butyl methyl ether | * | * | * | Hexanol | * | * | * | Tetrahydrofuran | | * | |
| Butylamine | * | * | * | Hydriodic acid 57% | * | * | * | Tetramethylammonium hydroxide | * | | * |
| Butyric acid | * | * | * | Hydrobromic acid | * | * | * | Toluene | | * | |
| Calcium carbonate | * | | * | Hydrochloric acid 20% | * | * | * | Trichloroacetic acid | * | | * |
| Calcium chloride | * | | * | Hydrochloric acid 20-37% | * | * | * | Trichlorobenzene | | * | |
| Calcium hydroxide | * | | * | Hydrogen peroxide 35% | | * | | Trichloroethane | | * | |
| Calcium hypochlorite | * | | * | Isooctane | | * | | Trichloroethylene | | * | |
| Carbon tetrachloride | | * | | Isoamyl alcohol | * | * | * | Trichlorotrifluoro ethane | | * | |
| Chloro naphthalene | * | * | * | Isobutanol | * | * | * | Triethanolamine | * | * | * |
| Chloroacetaldehyde 45% | * | * | * | Isopropanol | * | * | * | Triethylene glycol | * | * | * |
| Chloroacetic acid | * | | * | Isopropyl ether | * | * | * | Trifluoro ethane | | * | |
| Chloroacetone | * | * | * | Lactic acid | * | * | * | Trifluoroacetic acid | * | * | * |
| Chlorobenzene | * | * | * | Methoxybenzene | * | * | * | Turpentine | | * | |
| Chlorobutane | * | * | * | Methyl alcohol | * | * | * | Urea | * | | * |
| Chloroform | | * | | Methyl benzoate | * | * | * | Xylene | | * | |
| Chlorosulfonic acid | * | * | * | Methyl butyl ether | * | * | * | Zinc chloride 10% | * | | * |
| Chromic acid 50% | * | * | * | Methyl ethyl ketone | * | * | * | Zinc sulfate 10% | * | | * |
| Chromosulfuric acid | * | * | * | Methyl formate | * | * | * | | | | |
| Copper sulfate | * | | * | Methyl propyl ketone | * | * | * | | | | |
| Cresol | | * | | Methylene chloride | | * | | | | | |
| Cumene | * | * | * | Mineral oil | * | * | * | | | | |

Only the Dispenser Labmax "HF" is specifically designed to dispense hydrofluoric acid (HF).

For your own safety: please observe the general regulations for handling chemicals (e.g. protective clothing and goggles). Read the manual of the dispenser carefully and follow the instructions. Use the dispenser only with regard to its chemical resistance according to this table (status 2017).

Bottle-top digital burette CLASS A - PRECISION

TITREX

The digital burette **TITREX** is ideal for a fast and sensitive titration “drop by drop”. One instrument simulates all volumes up to 99.99 ml. Moreover, titration is possible without any loss of reagent! From air-purging, necessary for a precise titration, to disassembly of the burette in the end of the titration – the reagent, that is not needed for the titration flows back into the bottle! **TITREX**’s accuracy and precision are of highest quality. Our error ranges are better than those required by ISO 8655-3. The memory function allows saving of up to 1000 values, which can be transferred to a PC and read using the included software.



Digital display

Handwheel

Fine adjustment - with an additional knob the desired amount can be easily titrated or dispensed more precisely



only available with fine adjusted version

Reset button / Calibration button

TIT-Button: Titration mode

DOS-Button: Dosing / Dispensing mode

MEM-Button: Storage of data

The displayed value can be stored in the internal memory. This memory can be readout with the provided software and interface cord (RS232).

Discharge tube with protective sleeve

- 0° dosing and titration mode
- 90° air-purging mechanism in a closed circuit
- 180° rest position 100% drip-free

Liquid Handling



One instrument for all your titration and dosing applications CLASS A - PRECISION



Quick and precise volume setting

The dispensing and titration volume can be set by turning the handwheels.

The mode can be changed by pressing „DOS“ respectively „TIT“.

The display shows the emitted volume („TIT“ mode) respectively the filled volume („DOS“ mode).

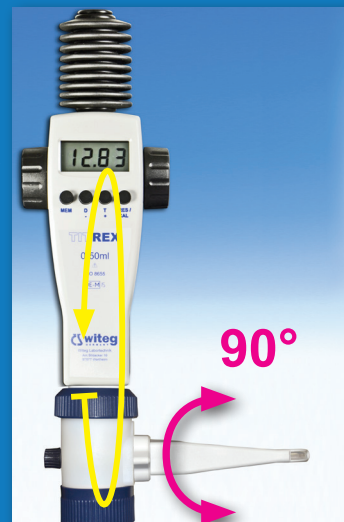
Perfect air-purging mechanism for 0% reagent loss

Turn the discharge tube at 90°.

Remove (purge) trapped air in a closed circuit without reagent loss by turning the handwheels. The reagent flows back into the bottle!

After turning the handwheel 2 - 3 times the digital burette is free of air and ready to use.

This special feature helps not only to save residual reagent but also when accidentally setting the wrong volume!



360°-turn for your added safety

No matter how much you tighten **TITREX**, you can always redirect the discharge tube by simply turning the valve block to the desired position. This way the label of the bottle is always visible.

This feature works for all our adapters. Adapters for different bottle threads can remain on the bottle.

100% drip-free system for your safety

By turning the discharge tube at 180° all liquid flows back into the bottle. **TITREX** is completely closed and no accidental discharge can occur by inadvertently moving the handwheels.

There is absolutely no dripping possible!



“Do-it-yourself” recalibration for a long life time

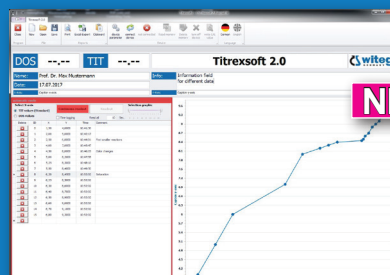
If you use **TITREX** as a measuring device in conformity to ISO 9001 and GLP, you need to control and monitor its accuracy and reliability. Therefore you can easily recalibrate the value by pressing „CAL“ until the display shows „CAL“. With the buttons „+“ and „-“ you can now adjust and correct the value.

TITREX can also be adjusted to liquids with other density and viscosity.

TITREX can also be recalibrated with the included **TITREXSOFT**.

TITREXSOFT

Included in scope of supply



NEW DEVELOPED

Through the access to the **TITREX**' memory, all data can be transferred to a PC – no more transmission errors!

The completely new developed software helps to process the stored data. Saved values can be read-out in real-time during the titration process or afterwards. Via the protocol export function, the data together with the automatically created graph can be either printed or saved.





One instrument
for all volumes

Digital burette

Your advantage at a glance:

- high quality precision instrument, made in Germany
- highest accuracy and precision, our error ranges are better than the DIN EN ISO 8655-3 requirements
- resistant against most acids and alkalis
- 0% loss of reagent - air-purging & draining in a closed circuit
- 360° rotatable valve block for your added safety
- two-in- one instrument: dosing & titration
- covers the complete volume range up to 50 ml when used as a dispenser and up to 99.99 ml when used as a burette
- easy and precise volume setting
- vertical valves: no sedimentation, no contamination
- 100% drip-free by turning the cannula at 180°
- no transcriptions errors due to automatic value storage and the possibility of transferring values to a PC via RS232 interface (USB adapter optional available)
- calibration: standard with water of 20°C
- software enables saving the next calibration date
- recalibration for liquids of different viscosities possible
- suitable for the determination of acid content in milk
- easy to dismantle & to clean, valve block autoclavable at 121°C
- automatic power-cut-off after three minutes
- including NiMH 1,2V 2100mAh battery
- individual certificate, CE label and serial number
- DE-M marked according to the German calibration law



Zero loss of reagent

| Type | Volume ml | witeg | | ISO 8655-3 | | Order number |
|--------------------------------|--------------|-------------------|---------------|-------------------|---------------|--------------|
| | | Systematic errors | Random errors | Systematic errors | Random errors | |
| | | ± ml | ≤ ml | ± ml | ≤ ml | |
| TITREX eco* | 0-50 | 0.10 | 0.05 | 0.1 | 0.05 | 5 497 050 E |
| TITREX premium | 0-50 | 0.03 | 0.01 | 0.1 | 0.05 | 5 497 050 |
| TITREX premium fine adjustment | 0-50 | 0.03 | 0.01 | 0.1 | 0.05 | 5 497 150 |

Scope of supply

TITREX, suction tube, discharge tube, instruction manual, individual certificate, serial number, battery charger with EU and US adapter, software **TITREXSOFT***, RS232 interface cord*, thread adapter A25, A28, GL 32/45, S40

* TITREXSOFT and RS232 interface cord not included in the scope of supply of TITREX economy

Parts in contact with reagent:

The components having direct contact with the reagent are made of chemical resistant materials: platinum spring, ceramic valve balls, PTFE piston, borosilicate glass 3.3 cylinder, borosilicate glass 3.3 valve

Optional accessories for **TITREX** and general titration applications

| Type | Order number |
|---|-----------------------------------|
| TITREXSOFT (in scope of supply of digital burette Titrex) supports all manual titration applications, automatic graph creation, protocol export function, access to digital burette Titrex memory | NEW DEVELOPED 5 497 900 |
| RS232 to USB adapter To connect the RS232 interface cord with an USB port | 5 497 920 |

Spare parts & Accessories

Bottles made of amber soda-lime glass with thread and plastic coating

| Volume ml | Thread GL | Width x Height mm | suitable for | Order number |
|--------------|--------------|----------------------|----------------|--------------|
| 100* | 28 | Ø51x100 | MINISPENSOR | 5 372 128 |
| 100 | 32 | 50x125 | LABmax, TITREX | 5 372 101 |
| 250 | 32 | 65x160 | LABmax, TITREX | 5 372 025 |
| 500 | 32 | 80x195 | LABmax, TITREX | 5 372 050 |
| 1000 | 45 | 95x230 | LABmax, TITREX | 5 372 100 |
| 2500 | 45 | Ø140x230 | LABmax, TITREX | 5 372 250 |

*100ml & 2500ml bottle with round shape

Bottle made of borosilicate glass 3.3 with threads, plastic coating and screw cap

- straight neck GL 45 (closed screw cap)
- lateral neck GL 18 (screw cap with bore 11mm)

| Volume ml | Thread GL | Ø x Height mm | suitable for | Order number |
|--------------|--------------|------------------|----------------|--------------|
| 2000 | 45 | Ø136x265 | LABmax, TITREX | 5 372 300 |

Standard joint adapters, made of borosilicate glass 3.3

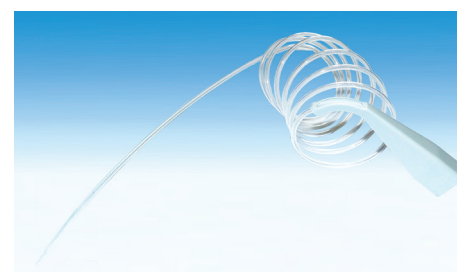
| Thread GL | Cone ST | suitable for | Order number |
|--------------|------------|-----------------------------|--------------|
| 32 | 19/26 | LABmax, TITREX, MINISPENSOR | 0 550 029 |
| 32 | 24/29 | LABmax, TITREX, MINISPENSOR | 0 550 030 |
| 32 | 29/32 | LABmax, TITREX, MINISPENSOR | 0 550 031 |
| 45 | 29/32 | LABmax, TITREX, MINISPENSOR | 0 550 040 |
| 45 | 45/40 | LABmax, TITREX, MINISPENSOR | 0 550 041 |

Flexible discharge tube, coiled, with protective sleeve, made of FEP / PP

| Length cm | Outer Ø mm | Inner Ø mm | suitable for | Order number |
|--------------|---------------|---------------|--------------------------|--------------|
| 180 | 3.0 | 2.0 | LABmax 2.5-10 ml | 5 375 002 |
| 180 | 6 | 4 | LABmax 25-100 ml, TITREX | 5 375 012 |

Discharge tube with protective sleeve, made of FEP / PP

| Length mm | Type | Nominal volume | suitable for | Order number |
|--------------|--------------------|----------------|--------------|--------------|
| 80 | bent | 2.5-10 ml | LABmax | 5 375 003 |
| 120 | bent | 25-100 ml | LABmax | 5 375 004 |
| 120 | bent with fine tip | 25-100 ml | TITREX | 5 497 400 |
| | bent with fine tip | 100-2000 µl | MINISPENSOR | 5 372 755 |



Spare parts & Accessories

Filling tubes made of FEP

| Length x Ø mm | suitable for | Order number |
|---------------------------|-------------------------------------|-----------------|
| Telescopic 170-330 x 4 | NEW LABmax 2.5-10 ml | 5 375 000 TK |
| Telescopic 170-330 x 6 | NEW LABmax 25-100 ml, TITREX | 5 375 001 TK |
| 310 x 5 | LABmax 2.5-10 ml | 5 375 000 N 310 |
| 390 x 5 | LABmax 2.5-10 ml | 5 375 000 N 390 |
| 310 x 7 | LABmax 25-100 ml, TITREX | 5 375 001 310 |
| 390 x 7 | LABmax 25-100 ml, TITREX | 5 375 001 390 |
| | MINISPENSOR 50-100 µl | 5 375 004 M |
| | MINISPENSOR 100-2000 µl | 5 375 014 |



Thread adapters made of PP

| Thread GL | suitable for | Order number |
|--------------|-----------------------------|--------------|
| A22 | LABmax, TITREX, MINISPENSOR | 5 377 022 |
| A25 | LABmax, TITREX, MINISPENSOR | 5 377 025 |
| A28 | LABmax, TITREX, MINISPENSOR | 5 377 028 |
| A30 | LABmax, TITREX, MINISPENSOR | 5 377 030 |
| A32 / A28* | MINISPENSOR | 5 377 032 |
| A38 | LABmax, TITREX, MINISPENSOR | 5 377 038 |
| A40 | LABmax, TITREX, MINISPENSOR | 5 377 040 |
| A45 / A32** | LABmax, TITREX | 5 497 600 |
| A45 | LABmax, TITREX, MINISPENSOR | 5 377 045 |



* from A28 to 32 (MINISPENSOR)
** from A45 to A32 inverted

Additional accessories

Check valve with plastic coating

For fuming and smelling liquids like linoleum, bromine etc.

| suitable for | Order number |
|----------------|--------------|
| LABmax, TITREX | 5 377 300 |



Calcium chloride tube with plastic coating

Protection against moisture from the outside

| suitable for | Order number |
|----------------|--------------|
| LABmax, TITREX | 5 377 310* |



One-way filter made of PP,

With membrane made of regenerated cellulose (dust and bacteria filter)

| Pore size | Filter Ø | Pieces / packaging unit | suitable for | Order number |
|-----------|----------|---------------------------------|------------------|--------------|
| 0.2 µm | 13 mm | 100 | LABmax TITREX | 8 212 001 |
| 0.2 µm | 30 mm | 100 | | 8 212 002 |
| 0.45 µm | 13 mm | 100 | | 8 212 003 |
| 0.45 µm | 30 mm | 100 | | 8 212 004 |
| 0.45 µm | 30 mm | 50 individual sterile packed | | 8 214 001 |
| 0.2 µm | 30 mm | 50 individual sterile packed | | 8 214 002 |



* delivered without calcium chloride

Premium Design - Premium Performance - Premium Quality

Looking for the latest pipetting innovation at an attractive price? **WITOPET premium** is just the right pipette for you. The ergonomic designed pipette of optimal weightiness requires extremely low pipetting forces making even prolonged pipetting as comfortable as possible. Other innovative features are the adjustable tip ejector button and the built-in volume locking. Moreover, **WITOPET premium** is characterized by superior accuracy and precision. Our error ranges are better than those required by DIN EN ISO 8655-2.

Push-button

The push-button is color coded.



Volume locking

Once set, the desired volume is locked and cannot be accidentally changed. This useful feature allows accuracy and precision until the end of a pipetting phase.

Tip ejector button*

The tip ejector button is adjustable. It doesn't matter if you are right or left-handed, this innovative feature allows effort-saving, comfortable ejection of the used pipette tips.



Body

The body of the innovative pipette is made of PP, giving the pipette light weightiness while the robustness still remains. In addition, the smooth, rounded body fits perfect in your hand: There is no sticking to or sliding off of the handle. The result is an extremely light pipette which fits naturally in your hand!

Piston

Enjoy pipetting with **WITOPET premium**! The new piston allows extremely low pipetting forces. The result is smooth and fatigue-free pipetting and minimized risk of repetitive stress disorder.

Tip ejector

The tip ejector fits securely into the body of **WITOPET premium** and helps avoid slipping over time. The new pipette has a stainless steel tip ejector.

Tip cone

The tip cone is suitable for all established brands of pipette tips.

Calibration mechanism

Adjusting **WITOPET premium** can be necessary for different solutions due to their density, viscosity, surface tension and / or vapor pressure, or when it is used at high altitudes or with special tips. **WITOPET premium** can be easily calibrated using the internal calibration tool.

Finger rest

In addition to the light weight, the larger finger rest reduces tension and makes prolonged serial pipetting comfortable. Your thumb is closer to the push-button, reducing pipetting forces.



WITOPET premium pipette support
5 406 107 P

WARRANTY
3
Years

NEW

WITOPET premium

Microliter pipette

Variable single-channel

Your advantage at a glance:

- highest quality, made in France
- best in its class performance, most competitive price
- highest accuracy and precision, our error ranges are better than the DIN EN ISO 8655-2 requirements
- extremely light weightiness, while the robustness still remains
- perfect ergonomics for highest comfort
- extremely low pipetting forces for minimized risk of a cramp
- built-in volume locking for error-free results
- innovative tip ejector button, adjustable for right- and left-handed users
- secure tip ejection, made of stainless steel
- built-in recalibration mechanism (calibration tool inclusive)
- 8 color-coded models with soft-spring system
- UV resistant
- completely autoclavable 20 minutes at 121°C (DIN EN ISO 285)
- individual certificate and serial number
- DE-M marked according to the German calibration law



Superior accuracy and precision

WITOPET premium single-channel

| Volume | Numeric division | Increment | Maximum permissible errors | | | | | Color-code | Order number |
|-------------|------------------|-----------|----------------------------|-------------------|---------------|-------------------|---------------|-------------|--------------|
| | | | Vol. tested | witeg | | ISO 8655 | | | |
| | | | | Systematic errors | Random errors | Systematic errors | Random errors | | |
| µl | µl | µl | µl | ± µl | ≤ µl | ± µl | ≤ µl | | |
| 0.2 - 2.0 | 0.01 | 0.002 | 0.2 | 0.024 | 0.012 | 0.08 | 0.04 | orange | 5 402 002 P |
| | | | 0.5 | 0.025 | 0.012 | 0.08 | 0.04 | | |
| | | | 1 | 0.027 | 0.013 | 0.08 | 0.04 | | |
| | | | 2 | 0.030 | 0.014 | 0.08 | 0.04 | | |
| 1 - 10 | 0.1 | 0.02 | 1 | 0.025 | 0.012 | 0.12 | 0.08 | red | 5 402 010 P |
| | | | 5 | 0.075 | 0.030 | 0.12 | 0.08 | | |
| | | | 10 | 0.100 | 0.040 | 0.12 | 0.08 | | |
| 2 - 20 | 0.1 | 0.02 | 2 | 0.10 | 0.03 | 0.20 | 0.10 | pale yellow | 5 402 020 P |
| | | | 10 | 0.10 | 0.05 | 0.20 | 0.10 | | |
| | | | 20 | 0.20 | 0.06 | 0.20 | 0.10 | | |
| 10 - 100 | 1 | 0.2 | 10 | 0.35 | 0.10 | 0.80 | 0.30 | salmon | 5 402 100 P |
| | | | 50 | 0.40 | 0.12 | 0.80 | 0.30 | | |
| | | | 100 | 0.80 | 0.15 | 0.80 | 0.30 | | |
| 20 - 200 | 1 | 0.2 | 20 | 0.50 | 0.20 | 1.60 | 0.60 | yellow | 5 402 200 P |
| | | | 100 | 0.80 | 0.25 | 1.60 | 0.60 | | |
| | | | 200 | 1.60 | 0.30 | 1.60 | 0.60 | | |
| 100 - 1000 | 10 | 2 | 100 | 3 | 0.6 | 8 | 3 | blue | 5 402 901 P |
| | | | 500 | 4 | 1.0 | 8 | 3 | | |
| | | | 1000 | 8 | 1.5 | 8 | 3 | | |
| 500 - 5000* | 10 | 2 | 500 | 12 | 3 | 40 | 15 | purple | 5 402 950 P |
| | | | 2500 | 15 | 5 | 40 | 15 | | |
| | | | 5000 | 30 | 8 | 40 | 15 | | |
| 1 - 10 ml* | 100 | 20 | 1000 | 30 | 6 | 60 | 30 | pale blue | 5 402 910 P |
| | | | 5000 | 40 | 10 | 60 | 30 | | |
| | | | 10000 | 60 | 16 | 60 | 30 | | |

NEW Starter Kit with 3 different pipettes and accessories (more information on page 26) **5 402 600 P**

Pipette support for WITOPET premium pipettes (suitable for single- and multi-channel pipettes) **5 406 107 P**

* 500-5000µl and 1-10ml version without tip ejector

The mentioned results can only be achieved with matching original Gilson® Diamond Tips from page 27.

Premium Design - Premium Performance - Premium Quality

Looking for the latest pipetting innovation at an attractive price? **WITOPET premium** is just the right pipette for you. The ergonomic designed pipette of optimal weightiness requires extremely low pipetting forces making even prolonged pipetting as comfortable as possible. Other innovative features are the adjustable tip ejector button and the built-in volume locking. Moreover, **WITOPET premium** is characterized by superior accuracy and precision. Our error ranges are better than those required by DIN EN ISO 8655-2. **WITOPET premium** is available as multi-channel model with 8 and 12 channels, covering the volume range from 0.5 to 300µl.

Push-button

The push-button is color coded.

Volume locking

Once set, the desired volume is locked and cannot be accidentally changed. This useful feature allows accuracy and precision until the end of a pipetting phase.

Finger rest

In addition to the light weight, the larger finger rest reduces tension and makes prolonged serial pipetting comfortable. Your thumb is closer to the push-button, reducing pipetting forces.

Tip ejector button

The tip ejector button is adjustable. It doesn't matter if you are right or left-handed, this innovative feature allows effort-saving, comfortable ejection of the used pipette tips.

Calibration mechanism

Adjusting **WITOPET premium** can be necessary for different solutions due to their density, viscosity, surface tension and / or vapor pressure, or when it is used at high altitudes or with special tips. **WITOPET premium** can be easily calibrated using the internal calibration tool.

Body

The body of **WITOPET premium** is made of PP, giving the pipette light weightiness while the robustness still remains. In addition, the smooth, rounded body fits perfect in your hand: There is no sticking to or sliding off of the handle. The result is an extremely light pipette which fits naturally in your hand!

Pipetting unit

Enjoy pipetting with **WITOPET premium**! The new unit allows extremely low pipetting forces. The result is smooth and fatigue-free pipetting and minimized risk of repetitive stress disorder.

Tip ejector

The tip ejector fits securely into the body of the pipette. In order to clean the device, the tip ejector can be removed easily by pressing the lock button.

Tip cones

The tip cones are suitable for all established brands of pipette tips.



WARRANTY
3
Years

NEW

WITOPET premium

Microliter pipette

Variable multi-channel

Your advantage at a glance:

- highest quality, made in France
- the best in its class performance, most competitive pricing
- highest accuracy and precision, our error ranges are better than the DIN EN ISO 8655-2 requirements
- extremely light weightiness, while the robustness still remains
- perfect ergonomic pipetting for highest comfort
- extremely low forces required for minimized risk of a cramp
- built-in volume locking for error-free results
- innovative tip ejector button, adjustable for right- and left-handed users
- secure tip ejection
- built-in recalibration mechanism (calibration tool inclusive)
- 4 color-coded models with soft-spring system
- UV resistant
- completely autoclavable 20 minutes at 121°C (DIN EN ISO 285)
- individual certificate and serial number
- DE-M marked according to the German calibration law



WITOPET premium pipette support
5 406 107 P

Superior accuracy and precision

WITOPET premium multi-channel

| Volume | Division | Increment | Maximum permissible errors | | | | | Color-code | Channels | Order number |
|----------|----------|-----------|----------------------------|-------------------|---------------|-------------------|---------------|-------------|----------|--------------|
| | | | Vol. tested | witeg | | ISO | | | | |
| | | | | Systematic errors | Random errors | Systematic errors | Random errors | | | |
| µl | µl | µl | µl | ± µl | ≤ µl | ± µl | ≤ µl | | | |
| 0.5 - 10 | 0.1 | 0.02 | 0.5 | 0.09 | 0.04 | 0.24 | 0.16 | red | 8 | 5 403 101 P |
| | | | 10 | 0.22 | 0.11 | 0.24 | 0.16 | | 12 | 5 403 201 P |
| 2 - 20 | 0.1 | 0.02 | 2 | 0.11 | 0.09 | 0.40 | 0.20 | pale yellow | 8 | 5 403 102 P |
| | | | 20 | 0.40 | 0.17 | 0.40 | 0.20 | | 12 | 5 403 202 P |
| 20 - 200 | 1 | 0.2 | 20 | 0.6 | 0.28 | 3.2 | 1.20 | yellow | 8 | 5 403 120 P |
| | | | 200 | 2.2 | 0.55 | 3.2 | 1.20 | | 12 | 5 403 220 P |
| 20 - 300 | 1 | 0.2 | 20 | 1.1 | 0.39 | 8.0 | 3.00 | green | 8 | 5 403 130 P |
| | | | 300 | 3.3 | 1.10 | 8.0 | 3.00 | | 12 | 5 403 230 P |

Pipette support for WITOPET premium pipettes (suitable for single- and multi-channel pipettes)

5 406 107 P

The mentioned results can only be achieved with matching original Gilson® Diamond Tips from page 27.

WITOPET premium Starter Kit

WITOPET premium Starter Kit

| Scope of supply | Order number |
|---|--------------------|
| <ul style="list-style-type: none"> ■ 1 WITOPET premium 20µl ■ 1 WITOPET premium 200 µl ■ 1 WITOPET premium 1000 µl ■ 1 Gilson Diamond® pipette tips D1000, Tipack 100 - 1000 µl ■ 1 Gilson Diamond® pipette tips D200, Tipack 2 - 200 µl ■ 3 single pipette holders ■ 1 calibration tool ■ 1 „2-minute inspection“ poster | <p>5 402 600 P</p> |

More information about the WITOPET premium microliter pipettes can be found on page 23.

NEW

WARRANTY

3

Years



NEW

Gilson® Diamond Tips

Achieve highest pipetting performance with matching original Gilson Diamond® Tips

TIPACK, Gilson® Diamond Tip Rack for WITOPET premium, color-code, autoclavable up to 121°C

| Product | Volume (µl) | Description | Packaging | Order number |
|---------|-------------|---------------------------------------|----------------------|--------------------|
| Rack | 0.1-10 | Diamond Tips, D10, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171100 |
| | 0.1-20 | Diamond Tips, DL10, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171200 |
| | 2-200 | Diamond Tips, D200, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171300 |
| | 20-300 | Diamond Tips, D300, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171400 |
| | 100-1000 | Diamond Tips, D1000, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171500 |
| | 100-1200 | Diamond Tips, D1200, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171600 |
| | 500-5000 | Diamond Tips, D5000, Tipack, 600 Tips | 12 Tipacks à 50 Tips | GIL-F161370 |
| | 1-10ml | Diamond Tips, D10ml, Tipack, 240 Tips | 8 Tipacks à 30 Tips | GIL-F161230 |



TIPACK ST, Gilson® Diamond Tip Rack sterile for WITOPET premium, DNA, RNA, DNase, RNase, ATP, pyrogen-free

| Product | Volume (µl) | Description | Packaging | Order number |
|---------------|-------------|---|----------------------|--------------------|
| Rack, sterile | 0.1-10 | Diamond Tips, D10ST, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171101 |
| | 0.1-20 | Diamond Tips, DL10ST, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171201 |
| | 2-200 | Diamond Tips, D200ST, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171301 |
| | 20-300 | Diamond Tips, D300ST, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171401 |
| | 100-1000 | Diamond Tips, D1000ST, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171501 |
| | 100-1200 | Diamond Tips, D1200ST, Tipack, 960 Tips | 10 Tipacks à 96 Tips | GIL-F171601 |

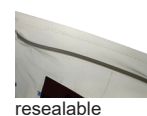
TIPACK FILTER ST, Gilson® Diamond Filtertip Rack sterile for WITOPET premium, DNA, RNA, DNase, RNase, ATP, pyrogen-free

| Product | Volume (µl) | Description | Length | Packaging | Order number |
|--------------------------|-------------|--|--------|----------------------|--------------------|
| Rack, sterile Filtertips | 0.1-10 | Diamond Tips, DF10ST, Tipack, 960 Tips | 31,2mm | 10 Tipacks à 96 Tips | GIL-F171103 |
| | 0.1-10 | Diamond Tips, DFL10ST, Tipack, 960 Tips | 46,0mm | 10 Tipacks à 96 Tips | GIL-F171203 |
| | 2-30 | Diamond Tips, DF30ST, Tipack, 960 Tips | 51,2mm | 10 Tipacks à 96 Tips | GIL-F171303 |
| | 10-100 | Diamond Tips, DF100ST, Tipack, 960 Tips | 51,2mm | 10 Tipacks à 96 Tips | GIL-F171403 |
| | 20-200 | Diamond Tips, DF200ST, Tipack, 960 Tips | 51,2mm | 10 Tipacks à 96 Tips | GIL-F171503 |
| | 20-300 | Diamond Tips, DF300ST, Tipack, 960 Tips | 51,2mm | 10 Tipacks à 96 Tips | GIL-F171603 |
| | 100-1000 | Diamond Tips, DF1000ST, Tipack, 960 Tips | 66,5mm | 10 Tipacks à 96 Tips | GIL-F171703 |
| | 100-1200 | Diamond Tips, DF1200ST, Tipack, 960 Tips | 84,5mm | 10 Tipacks à 96 Tips | GIL-F171803 |

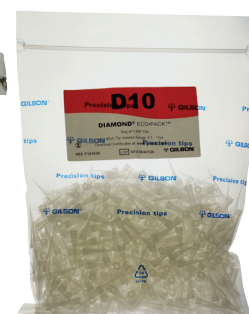


ECO PACK, Gilson® Diamond Tip Bag for WITOPET premium, autoclavable up to 121°C

| Product | Volume (µl) | Description | Packaging | Order number |
|---------|-------------|--------------------------------|---------------------|--------------------|
| Bagged | 100-1200 | Diamond Tips D1200, 10000 Tips | 10 bags à 1000 Tips | GIL-F161110 |
| | 0.1-20 | Diamond Tips DL10, 10000 Tips | 10 bags à 1000 Tips | GIL-F161450 |
| | 0.1-10 | Diamond Tips D10, 10000 Tips | 10 bags à 1000 Tips | GIL-F161630 |
| | 100-1000 | Diamond Tips D1000, 10000 Tips | 10 bags à 1000 Tips | GIL-F161670 |
| | 20-300 | Diamond Tips D300, 10000 Tips | 10 bags à 1000 Tips | GIL-F161730 |
| | 2-200 | Diamond Tips D200, 10000 Tips | 10 bags à 1000 Tips | GIL-F161930 |



resealable



STERIL PACK, Gilson® Diamond Tips single packed sterile for WITOPET premium, DNA, RNA, DNase, RNase, ATP, pyrogen-free

| Product | Volume (µl) | Description | Packaging | Order number |
|-----------------------|-------------|---------------------------------|------------------------|--------------------|
| single packed sterile | 2-200 | Tips D200ST, sterile, 400 Tips | 400 Tips single packed | GIL-F161330 |
| | 100-1000 | Tips D1000ST, sterile, 400 Tips | 400 Tips single packed | GIL-F161340 |

The professional way for your pipetting applications

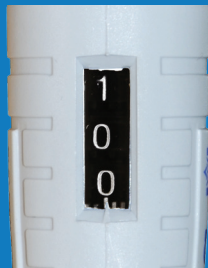
WITOPET professional single-channel is the classical microliter pipette, made for the daily use in the laboratory: accurate, robust and handy. The seven models available cover a volume range from 0.2 µl to 5 ml.

Push-button

The push button is color-coded to avoid confusion and softly gliding for comfortable pipetting.

Adjustment screw

The color-coded adjustment screw ensures easy and accurate volume setting.



Color-Code

The push button, the adjustment thread and the tip ejector button are color coded and help to distinguish all pipettes at a single glance.



Piston

The optimized piston allows fine adjustment of the pipetting forces, making the **WITOPET professional** perfect for precise laboratory applications like e.g. gel loading.



Tip ejector

The tip ejector fits well onto the body of the pipette to avoid slipping over time. It is made of stainless steel for a long lifetime.



Tip cone

The tip cone is suitable for all established brands of pipette tips.

Pipette support

suitable for up to seven **WITOPET professional** pipettes
5 406 107



WITOPET professional



Variable single-channel

Your advantage at a glance:

- high quality pipette, made in Germany
- economical priced
- perfect for precise laboratory applications
- 7 color-coded single-channel models
- high accuracy and precision according to DIN EN ISO 8655-2
- ergonomic designed and low weighted
- optimized spring force for comfortable pipetting
- robust and stable construction
- tip ejector and piston made of stainless steel
- suitable for all established brands of pipette tips
- completely autoclavable at 121°C*
- individual certificate and serial number
- DE-M marked according to the German calibration law



WITOPET professional

| Volume µl | Color | Division µl | Increment µl | Volume tested µl | Systematic errors ± µl | Random errors ≤ µl | Order number |
|---------------------|--------|----------------|-----------------|---------------------|---------------------------|-----------------------|------------------|
| 0.2 - 2.0 | red | 0.1 | 0.002 | 0.2 | 0.08 | 0.04 | 5 402 002 |
| | | | | 0.5 | 0.08 | 0.04 | |
| | | | | 1 | 0.08 | 0.04 | |
| | | | | 2 | 0.08 | 0.04 | |
| 0.5 - 10 | red | 0.1 | 0.02 | 1 | 0.12 | 0.08 | 5 402 010 |
| | | | | 5 | 0.12 | 0.08 | |
| | | | | 10 | 0.12 | 0.08 | |
| 2 - 20 | yellow | 0.1 | 0.02 | 2 | 0.20 | 0.10 | 5 402 020 |
| | | | | 10 | 0.20 | 0.10 | |
| | | | | 20 | 0.20 | 0.10 | |
| 10 - 100 | yellow | 1.0 | 0.2 | 10 | 0.80 | 0.30 | 5 402 100 |
| | | | | 50 | 0.80 | 0.30 | |
| | | | | 100 | 0.80 | 0.30 | |
| 20 - 200 | yellow | 1.0 | 0.2 | 20 | 1.60 | 0.60 | 5 402 200 |
| | | | | 100 | 1.60 | 0.60 | |
| | | | | 200 | 1.60 | 0.60 | |
| 100 - 1000 | blue | 10 | 2 | 100 | 8 | 3 | 5 402 901 |
| | | | | 500 | 8 | 3 | |
| | | | | 1000 | 8 | 3 | |
| 1000 - 5000* | black | 10 | 10 | 1000 | 40 | 15 | 5 402 950 |
| | | | | 2500 | 40 | 15 | |
| | | | | 5000 | 40 | 15 | |

Pipette support for WITOPET professional pipettes

5 406 107

*1000 - 5000 ml pipette filter only separately autoclavable

The most economical way for entry-level pipetting

Looking for the most economical way to start with pipetting applications? **WITOPET economy** is a single-channel pipette ideal for beginners: robust, easy to handle and easy to clean. Moreover, it is almost impossible to change accidentally the set volume once adjusted.

Finger rest & pipette holder

The large finger rest supports your whole hand during pipetting. It has also the function of a pipette holder in combination with the original support – for a safe and tidy workplace.

Volume display

The 3-digit display is easy to read and suitable for volumes from 0.1 µl to 5 ml.

Autoclavable

WITOPET economy: The tip shaft is autoclavable at 121°C.

WITOPET economy plus: Fully autoclavable at 121°C.

Piston

We used efficient components for high accuracy and precision in accordance with ISO standards.

Tip cone

The tip cone is suitable for all established brands of pipette tips.

Tip ejector

The tip ejector releases the used tip easily.

Pipetting button

The pipetting button guarantees perfect dosing results until the end of a pipetting phase, even for beginners. The push button with integrated adjustment screw makes changing the volume accidentally during pipetting almost impossible.

Pipette support

suitable for **WITOPET economy** pipettes
5 406 205



Variable & fixed Single-Channel

Your advantage at a glance:

- quality pipette, most economical price in its class
- simple and robust construction
- accuracy and precision according to DIN EN ISO 8655-2
- set volume almost impossible to change during pipetting
- suitable for all established brands of pipette tips
- easy release of the used tips
- easy cleaning and maintenance
- autoclavable:
 - **WITOPET economy:** tip shaft autoclavable at 121°C
 - **WITOPET economy plus:** fully autoclavable at 121°C
- individual certificate and serial number
- DE-M marked according to the German calibration law

Variable and fixed single-channel available



WITOPET economy

Variable & fixed

WITOPET economy fixed single-channel

| Volume | Systematic errors | Random errors | Order number |
|---------------|-------------------|--------------------|------------------------|
| μl | $\pm \mu\text{l}$ | $\leq \mu\text{l}$ | tip shaft autoclavable |
| 5 | 0.125 | 0.075 | 5 401 005 |
| 10 | 0.12 | 0.08 | 5 401 010 |
| 20 | 0.2 | 0.1 | 5 401 020 |
| 25 | 0.2 | 0.1 | 5 401 025 |
| 50 | 0.5 | 0.2 | 5 401 050 |
| 100 | 0.8 | 0.3 | 5 401 100 |
| 200 | 1.6 | 0.6 | 5 401 200 |
| 250 | 1.6 | 0.6 | 5 401 250 |
| 500 | 4.0 | 1.5 | 5 401 500 |
| 1000 | 8.0 | 3.0 | 5 401 910 |
| 2000 | 16 | 6.0 | 5 401 920 |
| 5000 | 40 | 15 | 5 401 950 |

| Description | Order number |
|---|--------------|
| Pipette support for WITOPET economy pipettes (single- and multi-channel pipettes) | 5 406 205 |

WITOPET economy / WITOPET economy plus variable single-channel

| Volume | Division | Volume tested | Systematic errors | Random errors | WITOPET economy | WITOPET economy plus |
|---------------|---------------|---------------|-------------------|--------------------|------------------------|----------------------|
| | | | | | Order number | Order number |
| μl | μl | μl | $\pm \mu\text{l}$ | $\leq \mu\text{l}$ | tip shaft autoclavable | fully autoclavable |
| 0.1 - 2.5 | 0.05 | 0.2 | 0.08 | 0.04 | 5 402 002 D | 5 402 002 D A |
| | | 0.5 | 0.08 | 0.04 | | |
| | | 1 | 0.08 | 0.04 | | |
| | | 2 | 0.08 | 0.04 | | |
| 0.5 - 10 | 0.1 | 1 | 0.12 | 0.08 | 5 402 010 D | 5 402 010 D A |
| | | 5 | 0.12 | 0.08 | | |
| | | 10 | 0.12 | 0.08 | | |
| 2 - 20 | 0.5 | 2 | 0.20 | 0.10 | 5 402 020 D | 5 402 020 D A |
| | | 10 | 0.20 | 0.10 | | |
| | | 20 | 0.20 | 0.10 | | |
| 10 - 100 | 1.0 | 10 | 0.80 | 0.30 | 5 402 100 D | 5 402 100 D A |
| | | 50 | 0.80 | 0.30 | | |
| | | 100 | 0.80 | 0.30 | | |
| 20 - 200 | 1.0 | 20 | 1.60 | 0.60 | 5 402 200 D | 5 402 200 D A |
| | | 100 | 1.60 | 0.60 | | |
| | | 200 | 1.60 | 0.60 | | |
| 100 - 1000 | 5.0 | 100 | 8 | 3 | 5 402 901 D | 5 402 901 D A |
| | | 500 | 8 | 3 | | |
| | | 1000 | 8 | 3 | | |
| 1000 - 5000 | 50.0 | 1000 | 40 | 15 | 5 402 950 D | 5 402 950 D A |
| | | 2500 | 40 | 15 | | |
| | | 5000 | 40 | 15 | | |

| Description | Order number |
|---|--------------|
| Pipette support for WITOPET economy pipettes (single- and multi-channel pipettes) | 5 406 205 |

The convenient way for your pipetting applications

WITOPET economy is the classical microliter pipette perfectly designed for rapid and comfortable pipetting in 96 well plates.

Dosing button

The dosing button guarantees perfect dosing results until the end of a pipetting phase, even for beginners. The push button with integrated adjustment screw makes changing the volume by mistake during pipetting almost impossible.

Finger rest & pipette holder

The large finger rest supports your whole hand during pipetting. It has also the function of a pipette holder in combination with the original support – for a safe and tidy workplace.

Volumetric display

The 3-digit display is easy to read and suitable for volumes from 0.5 - 300 µl.

Tip ejector

The tip ejector releases the used tip easily.

Pipetting unit

We used efficient components for high accuracy and precision in accordance with ISO standards. The pipetting unit can be turned around (360°) for increased flexibility.

Reliable technique

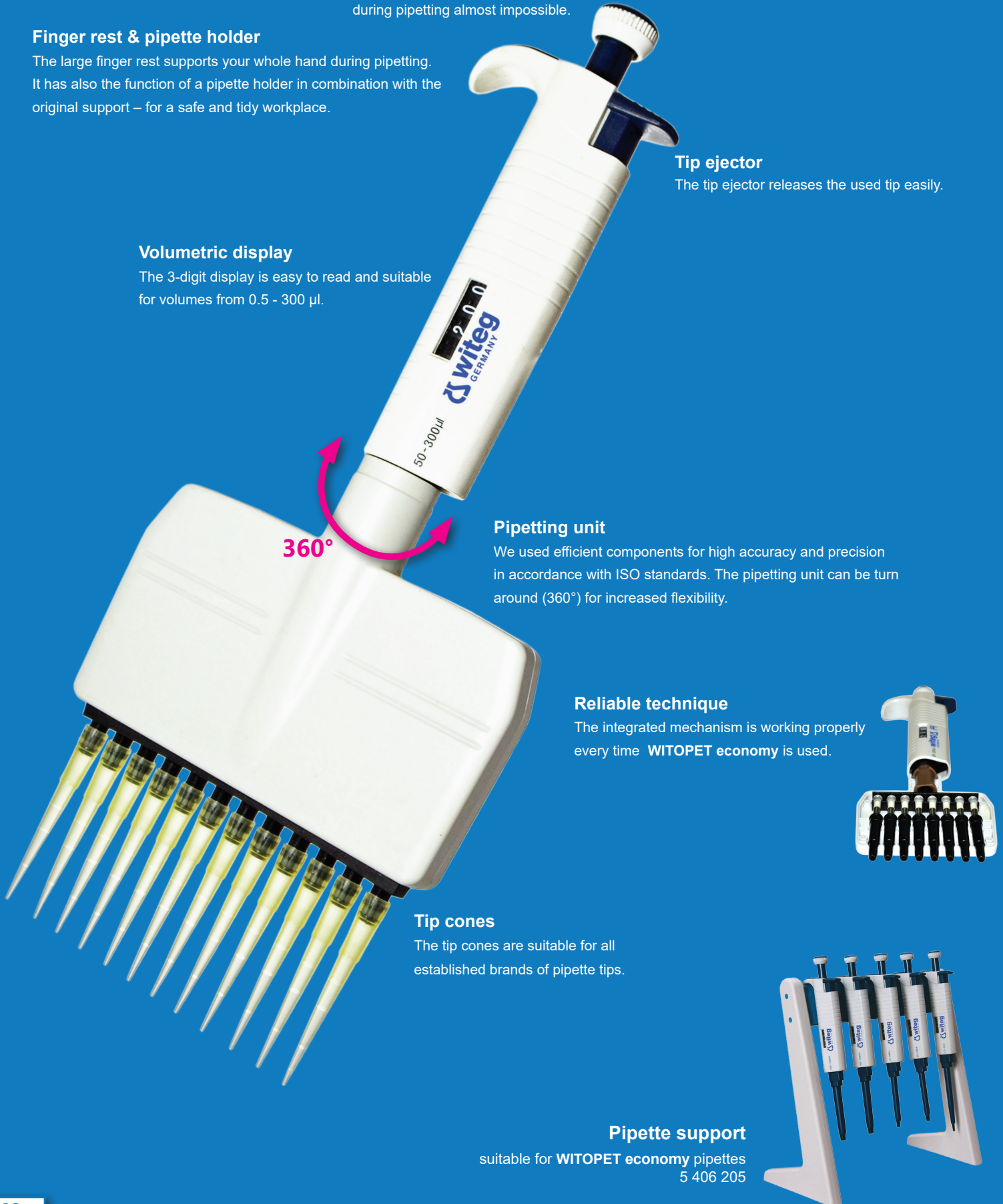
The integrated mechanism is working properly every time **WITOPET economy** is used.

Tip cones

The tip cones are suitable for all established brands of pipette tips.

Pipette support

suitable for **WITOPET economy** pipettes
5 406 205



WITOPET economy



Multi-channel

Your advantage at a glance:

- perfectly designed for 96 well plates
- quality pipette at a very competitive price
- available with 8 or 12 channels
- accuracy and precision according to DIN EN ISO 8655-2
- set volume almost impossible to change during pipetting
- 360° rotatable pipetting unit for more flexibility
- suitable for most brands of pipette tips
- easy release of the used tips
- easy cleaning and maintenance
- pipetting unit autoclavable at 121°C
- individual certificate and serial number
- DE-M marked according to the German calibration law

WITOPET economy multi-channel

| Volume | Division | Maximum permissible errors | | | Channels | Order number |
|---|----------|----------------------------|-------------------|---------------|----------|--------------|
| | | witeg | | | | |
| | | Volume tested | Systematic errors | Random errors | | |
| µl | µl | µl | ± µl | ≤ µl | | |
| 0.5 - 10 | 0.1 | 1 | 0.24 | 0.16 | 8 | 5 403 101 |
| | | 5 | | | 12 | 5 403 201 |
| | | 10 | | | | |
| 5 - 50 | 0.5 | 5 | 1.0 | 0.4 | 8 | 5 403 105 |
| | | 25 | | | 12 | 5 403 205 |
| | | 50 | | | | |
| 50 - 300 | 5.0 | 50 | 3.2 | 1.2 | 8 | 5 403 130 |
| | | 150 | | | 12 | 5 403 230 |
| | | 300 | | | | |
| Pipette support for WITOPET economy pipettes (single- and multi-channel pipettes) | | | | | | 5 406 205 |

One instrument for serial dosing from 1 to 5000 μl

WITOPETTE plus is the ideal instrument for serial dosing: ergonomic designed, low weighted (only 100 g) but still robust and highly resistant due to the used high-quality materials. With purely mechanical, maintenance-free construction, **WITOPETTE plus** is the stepper pipette you can always count on!

Viewing window

This window displays the dispensing volume according to the position of the adjusting wheel (from 1 to 10) and size of the dispensing tip (from 0,05 to 50 ml).

Body

The ergonomic designed shape and the large finger rest make dosing with **WITOPETTE plus** comfortable and fatigue-proof.

Universal tip holder

The tip holder of **WITOPETTE plus** is suitable for all established brands of dispensing tips.



Push button

The ergonomically designed push button is large, smooth and rounded to provide best comfort for your thumb.

Adjusting wheel

To set the desired volume, turn the adjusting wheel from program 1 to 10.

Filling lever

Push up the filling lever to draw up the inserted tip with liquid.

Stop lever

The stop lever ensures a firmly holding of the inserted tip: Just push it down and the tip is locked.



Stepper Pipette

Your advantage at a glance:

- ideal instrument for serial dosing in microliter range
- up to 48 pipetting steps in intervals of 1 second
- mechanical volume setting, 120 dosing volumes possible
- ergonomic design and low weighted for fatigue-proof dosing
- precise and accurate dosing of volumes from 1 to 5000 μl
- suitable for all established brands of dispensing tips from 0.05 - 50 ml
- robust & stable construction for a long life time
- quality certificate and serial number
- DE-M marked according to the German calibration law

WITOPETTE plus 1-5000 μl

Type

Stepper Pipette

Order number

5 385 205

WITIPS for WITOPETTE plus

WITIPS evolution

- all nine Witip sizes have a color-coded adapter for fast identification
- easy and highly precise dosing, even in low volume applications. Smallest volume (from 1 µl) can be dispensed without using any additional pipet tip
- for viscous, infectious and volatile liquids through direct displacement method
- reliable and repeatable results through automated, individual tests of every tip
- each size is also available in single wrapped, sterile quality. This means sterilized, pyrogene-, ATP-, RNase- and DNA-free. The purity of the label sterile is certified by independent laboratories.
- certificate of every batch is available on request
- lot number on each box



Witips evolution, standard and sterile are suitable for: WITOPETTE plus, Ripette®, Ripette® pro, Ripette® genX, eLine™-

Dispenser, Multipette® 4780, Multipette® plus, Multipette® M4, Minilab 100, Minilab 101, Minilab 201, DISTRIMAN®,

StepMate, EasyStep, EasyStep electronic, RepeatOne®, Handrop, HandyStep®, HandyStep® electronic.

When using the following dispensers, no automatic identification of the tip possible: Multipette® M4, Multipette® plus.

WITIPS

- the eight tip sizes are suited for dispensing volumes from 1 µl – 50,000 µl
- for viscous, infectious & volatile liquids through direct displacement method
- reliable and repeatable results through automated, individual tests of every tip
- each size is also available in single wrapped sterile quality. This means sterilized, pyrogene-, ATP-, RNase- and DNA-free. The purity of the sterile tips is certified by independent laboratories.
- certificate of every batch is available on request
- lot number on each box.



Witips, standard and sterile, are suitable for: WITOPETTE plus, Ripette®, Ripette® pro, Multipette® 4780, eLine™-Dis-

penser, Minilab 100, Minilab 101, Minilab 201, DISTRIMAN®, Repeatman®, StepMate, EasyStep, EasyStep electronic,

RepeatOne®, Handrop.

WITIPS Tips for WITOPETTE plus

| Volume (ml) | Sterile | Packaging unit | Order number standard | Order number evolution |
|-------------|---------|----------------|-----------------------|------------------------|
| 0,05 | | 100 | 5 385 222 | - |
| 0,05 | x | 100 | 5 385 222 S | - |
| 0,1 | | 100 | - | 5 386 111 |
| 0,1 | x | 100 | - | 5 386 111 S |
| 0,2 | | 100 | - | 5 386 112 |
| 0,2 | x | 100 | - | 5 386 112 S |
| 0,5 | | 100 | 5 385 223 | 5 386 223 |
| 0,5 | x | 100 | 5 385 252 | 5 386 252 |
| 1,0 | | 100 | - | 5 386 113 |
| 1,0 | x | 100 | - | 5 386 253 |
| 1,25 | | 100 | 5 385 224 | - |
| 1,25 | x | 100 | 5 385 253 | - |
| 2,5 | | 100 | 5 385 225 | 5 386 225 |
| 2,5 | x | 100 | 5 385 254 | 5 386 254 |
| 5,0 | | 100 | 5 385 226 | 5 386 226 |
| 5,0 | x | 100 | 5 385 255 | 5 386 255 |
| 10,0 | | 100 | - | 5 386 117 |
| 10,0 | x | 100 | - | 5 386 256 |
| 12,5 | | 100 | 5 385 227 | - |
| 12,5 | x | 100 | 5 385 256 | - |
| 25,0 | | 25 | 5 385 228 | 5 386 228 |
| 25,0 | x | 25 | 5 385 257 | 5 386 257 |
| 50,0 | | 25 | 5 385 229 | 5 386 229 |
| 50,0 | x | 25 | 5 385 258 | 5 386 258 |

Wiplate square wells

Wiplate SW

Your advantage at a glance:

- optimal use of capacity when it comes to sample storage
- standard SBS format, compatible to all common robotic systems
- form follows function: the construction of cavities is crucial for a maximum absorption of liquids; thin-walled and parallel cavities ensure a maximum of contamination-free sample storage per well
- with alphanumeric marking
- can be closed with respective cap mats, adhesive films or by heat-sealing
- manufactured out of pure polypropylene without lubricants for an immaculate and secure analysis, ideal for highly sensitive analytical methods, as e.g. chromatography
- towards comparable plates from other manufacturers, the relatively high volume allows closing of Wiplate with cap mats without any liquid displacement and cross contamination



for a maximum capacity utilization

| Wiplate SW | | | | | |
|------------|-------|---------|-----------|----------------|----------------|
| Capacity | Wells | Sterile | Material | Packaging Unit | Article number |
| 2 ml | 96 | | PP | 20 | 5 427 001 |
| 2 ml | 96 | | PP, black | on demand | 5 427 002 |
| 2 ml | 96 | x | PP | 10 | 5 427 003 |
| 5 ml | 48 | | PP | 20 | 5 427 004 |
| 5 ml | 48 | x | PP | 10 | 5 427 005 |
| 10 ml | 24 | | PP | 20 | 5 427 006 |
| 10 ml | 24 | x | PP | 10 | 5 427 007 |

| Cap mat SW | | | | |
|------------------|-------|---------|----------------|----------------|
| Suitable for: | Wells | Sterile | Packaging Unit | Article number |
| Wiplate SW 2 ml | 96 | | 20 | 5 427 011 |
| Wiplate SW 2 ml | 96 | x | 10 | 5 427 012 |
| Wiplate SW 5 ml | 48 | | 20 | 5 427 013 |
| Wiplate SW 5 ml | 48 | x | 10 | 5 427 014 |
| Wiplate SW 10 ml | 24 | | 20 | 5 427 015 |
| Wiplate SW 10 ml | 24 | x | 10 | 5 427 016 |

Wiplate SW 2 ml 96 Wells

- Total volume: max. 2.5 ml/well
- Working volume 50 µl up to 2.4 ml
- well-shaped U-bottom
- including cap mat 96 for a leak-proof closure

Wiplate SW 5 ml 48 Wells

- Total volume: max. 5.0 ml/well
- Working volume 50 µl up to 4.9 ml
- well-shaped V-bottom
- including cap mat 48 for a leak-proof closure

Wiplate SW 10 ml 24 Wells

- Total volume: max. 10.0 ml/well
- Working volume 50 µl up to 9.9 ml
- well-shaped U-bottom
- including cap mat 24 for a leak-proof closure

Wiplate round wells

Wiplate RW

Your advantage at a glance:

- deepwell plate – standard in multifunction
- standard SBS format, compatible to all common robotic systems
- raised wells reduce the risk of cross-contamination and increases the security of heat-sealing or sealing with adhesive films
- alphanumeric code
- the U-shaped well bottom reduces the death volume
- due to the high chemical resistance ideal for sensitive diagnostic applications
- available with capacity of 1 ml or 2 ml per well



| Model | Capacity | Sterile | Material | Packaging Unit | Article number |
|-----------------------|----------|---------|----------|----------------|----------------|
| Wiplate RW | 1 ml | | PS | 20 | 5 427 020 |
| Wiplate RW | 1 ml | | PP | 20 | 5 427 021 |
| Wiplate RW black | 1 ml | | PP | on demand | 5 427 022 |
| Wiplate RW plus | 1 ml | | PP | 20 | 5 427 023 |
| Wiplate RW black plus | 1 ml | | PP | on demand | 5 427 024 |
| Wiplate RW | 1 ml | x | PS | 10 | 5 427 025 |
| Wiplate RW | 1 ml | x | PP | 20 | 5 427 026 |
| Wiplate RW plus | 1 ml | x | PP | 10 | 5 427 027 |
| Wiplate RW | 2 ml | | PP | 20 | 5 427 028 |
| Wiplate RW | 2 ml | x | PP | 10 | 5 427 029 |

Cap mat RW

| Suitable for: | Sterile | Packaging Unit | Article number |
|-----------------|---------|----------------|----------------|
| Wiplate RW 1 ml | | 100 | 5 427 120 |
| Wiplate RW 1 ml | x | 100 | 5 427 121 |

Wiplate RW 1 ml

- reinforced bottom, ideal for centrifugation

Wiplate RW 2 ml

- continuous shared round wells (no gaps between the wells) enables mixing and separating in two samples of 1 ml each
- low plate profile, can be used with most common storage systems

Wiplate RW plus 1 ml

- air escapes and raised rims for use in a thermocycler or for defrosting of samples in a hot water bath
- for applications with extreme temperature circumstances like freezing or defrosting in a microwave

Wiplate medio

Wiplate medio

Your advantage at a glance:

- due to the tangency of Wiplate medio up to 50% stacking size is needed
- higher well rims allow an airtight closure or sealing of wiplate medio
- the alphanumeric marking allows the registration and identification of single samples
- new developed conical wells provide a good bioturbation



Saves 50% of storage capacity

| Capacity | Sterile | Material | Packaging Unit | Article number |
|----------|---------|----------|----------------|----------------|
| 1.0 ml | | PP | 32 | 5 427 030 |
| 0.5 ml | | PP | 40 | 5 427 031 |
| 1.0 ml | x | PP | on demand | 5 427 032 |
| 0.5 ml | x | PP | on demand | 5 427 033 |

| Cap mat square wells | | |
|------------------------|----------------|----------------|
| | Packaging Unit | Article number |
| Cap mat medio | 100 | 5 427 034 |
| Lid for Wiplate, clear | 100 | 5 427 035 |

Wiplate medio 1 ml

- height only 27.0 mm
- total volume 1.2 ml/well
- working volume 50 µl – 1000 µl/well

Wiplate medio 0.5 ml

- height only 20.5 mm
- total volume 0.65ml/well
- working volume 20µl – 500 µl/well

Vacuum aspiration system

integrated vacuum pump with vacuum control



Wide range of adapters fit with tube, micro plate and disk plate for various tasks and can be fully autoclaved.

Vacmax

Ideal for:

- designed for laboratory waste recovery and separation of liquid and solid
- can be widely used in cell culture, DNA extraction, micro plate waste removal, and any other liquid separation or recovery.

Features:

- vacuum power can be set to different levels to achieve 1 ml/s to 15 ml/s aspiration speed (liquid 1 – 17 ml/s)
- sensitive level sensor to prevent liquid overflow during operation
- fully autoclavable waste collection bottle, tubing and handle.
- lid, tubing and handle are easy to disassemble, clean and autoclave
- wide range of adapters to fit tube, micro plate and disk plate for various tasks
- interchangeable hand operator – tip adapters make it suitable for various tasks from single channel to 8-channel based on the applications in tube, micro plate, disk plate, etc.
- including a hydrophobic filter 0.45 µm, Ø6 mm
- pump noise less than 65 dB (A)
- CE certified and unique serial number for tracing

| Model | Vacmax |
|-------------------------------|---|
| Vacuum range | 0 - 600 mbar |
| Aspiration speed | air: 1 - 15 ml/S liquid: 1 - 17 ml/S |
| Autoclavable components | tube, waste bottle, operation handle |
| Dimensions (W x D x H) | 180 x 240 x 450 mm |
| Weight | 3 kg |
| Input voltage | 100 - 240 VAC, 50/60 Hz |
| Bottle volume | 4 l |
| Packaging size & gross weight | 560 x 410 x 220 mm, 5 kg |
| Order number complete set | 5 429 600 |

The most comfortable way for all pipetting applications

Looking for the most comfortable way of pipetting? The electronic microliter pipette **WITOPET EP** is the right product for you. The motorized pipetting process has at least two major advantages compared with manual pipetting: it avoids pipetting errors user induced and it prevents the risk of a cramp after prolonged pipetting phases. **WITOPET EP** is available as single- and multi-channel pipette.

Digital display

The user-friendly display indicates set volume, set function, pipetting step, battery status etc.



Volume and function setting

The buttons for volume and function setting are color-coded to avoid confusion.



Push-button

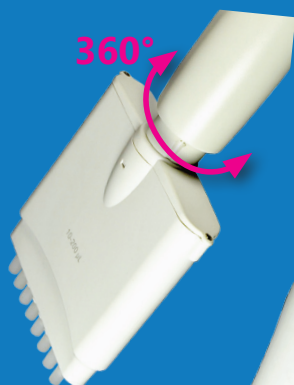
Draw up and release of the set volume occurs with minimal effort for highest user comfort.

Tip ejector

The tip ejector releases the used tip easily.

Pipetting unit

The pipetting unit can be turned around (360°) for increased flexibility.



Body

A high precision stepping motor ensures absolute correct automatic pipetting without any mistake.

Tip cone

The tip cone is suitable for all established brands of pipette tips.

Pipette support

suitable for **WITOPET EP** pipettes
5 406 105



Electric Pipette

Your advantage at a glance:

- ideal for prolonged pipetting
- minimal pipetting forces required
- automatic pipetting process for highest comfort and accuracy
- multiple functions (auto-pipetting, mixing, multiple dispensing, sequential aspirating / dispensing)
- 9 memory settings
- 5 speed settings for different viscosities
- user friendly digital display
- 360° rotatable pipetting unit for more flexibility (multi-channel only)
- including Li-ion 3,6V 1000mAh battery
- serial number and CE label
- individual certificate according to DIN EN ISO 8655-2
- DE-M marked according to the German calibration law



WITOPET EP digital single- and multi-channel pipette

| | Volume | Channels | Division | Volume tested | Systematic errors | Random errors | Order number |
|--------------------------------|---------------|----------|---------------|--------------------|-------------------|--------------------|--------------|
| | μl | | μl | μl | $\pm \mu\text{l}$ | $\leq \mu\text{l}$ | |
| single-channel | 2 - 20 | 1 | 0.1 | 2 10 20 | 0.2 | 0.1 | 5 402 302 S |
| | 10 - 200 | 1 | 1.0 | 20 100 200 | 1.6 | 0.6 | 5 402 320 S |
| | 100 - 1000 | 1 | 10.0 | 200 500 1000 | 8 | 3 | 5 402 390 S |
| multi-channel | 2 - 20 | 8 | 0.1 | 2 10 20 | 0.4 | 0.2 | 5 402 402 S |
| | 10 - 200 | 8 | 1.0 | 20 100 200 | 3.2 | 1.2 | 5 402 420 S |
| Pipette support for WITOPET EP | | | | | | | 5 406 105 |

WITOPET Mini



Quick pipetting

Your advantage at a glance:

- 6 fix-volumina from 5µl to 100µl
- compact size with an overall length of 130mm
- maximum accuracy
- feeling of a regular pipette
- two-stage plunger to ensure correct pipetting volumes
- smart tip cone design allows perfect fit for 200 µl as well as 20 µl tips
- fully autoclavable
- colour-code for better determination
- with quality certificate per batch

The most competitive way of quick pipetting

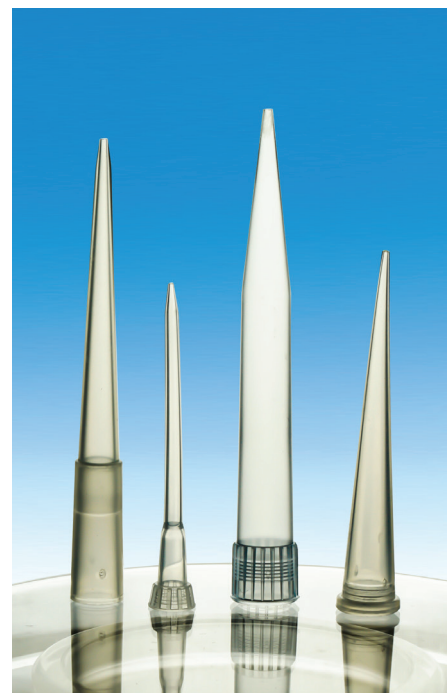
WITOPET Mini

| Volume µl | Volume tested µl | Systematic errors ± % | Random errors ≤ % | Order number |
|--------------|---------------------|--------------------------|----------------------|--------------|
| 5 | 5 | 4.0 | 2.5 | 5 405 005 |
| 10 | 10 | 3.2 | 1.4 | 5 405 010 |
| 20 | 20 | 3.0 | 0.5 | 5 405 020 |
| 25 | 25 | 1.5 | 1.1 | 5 405 025 |
| 50 | 50 | 1.5 | 0.4 | 5 405 050 |
| 100 | 100 | 1.5 | 0.3 | 5 405 090 |

Pipette tips

WITOPET pipette tips, in a plastic bag, conformity certified
fits for: WITOPET®, Eppendorf®, Gilson®, Brand®, Socorex®, FinnpiPET®

| Volume µl | Color | Suitable for following brands | Packaging unit Pieces | Order number |
|--------------|---------|-------------------------------|--------------------------|--------------|
| 0.5 - 10 | neutral | Gilson | 1000 | 5 408 005 |
| 0.5 - 10 | neutral | universal | 1000 | 5 408 010 |
| 2 - 200 | yellow | universal | 1000 | 5 408 200 |
| 2 - 200 | yellow | Gilson | 1000 | 5 408 202 |
| 100 - 1000 | blue | universal | 1000 | 5 410 000 |
| 100 - 1000 | blue | universal | 1000 | 5 410 001 |
| 1000 - 5000 | neutral | universal | 250 | 5 412 100 |
| 1000 | neutral | Beckmann, Sherwood, Lancer | 1000 | 5 412 110 |
| 2 - 200 | neutral | MLA | 1000 | 5 412 120 |
| 200 - 1000 | neutral | MLA | 1000 | 5 412 200 |
| 2 - 200 | neutral | Oxford | 1000 | 5 412 220 |
| 250 - 1000 | green | Oxford | 1000 | 5 412 250 |
| 2 - 200 | neutral | Oxford slim line | 1000 | 5 412 320 |
| 250 - 1000 | blue | Oxford slim line | 1000 | 5 412 325 |



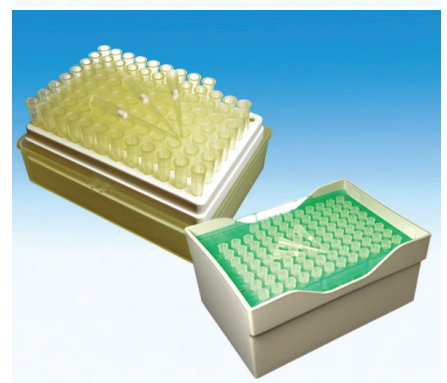
WITOPET pipette tips, in an autoclavable rack with cover, conformity certified

| Volume µl | Color | Suitable for following brands | Packaging unit Pieces | Order number |
|--------------|---------|-------------------------------|--------------------------|--------------|
| 0.5 - 10 | neutral | universal | 96 | 5 409 005 |
| 2 - 200 | yellow | universal | 96 | 5 409 200 |
| 100 - 1000 | blue | universal | 96 | 5 409 210 |
| 2 - 200 | yellow | Gilson | 96 | 5 409 220 |



WITOPET Filtertips (**sterile**) suitable for all WITOPET pipettes, autoclavable
DNase, RNase, Cadmium and pyrogen free. The tips are sterilised by gamma radiation.

| Volume µl | Color | Suitable for following brands | Packaging unit Pieces | Order number |
|--------------|---------|--|--------------------------|--------------|
| 5 - 20 | neutral | witeg, Eppendorf, Biohit, Nichiryo, Gilson, Socorex, Brand | 96 | 5 414 100 B |
| 5 - 300 | neutral | witeg, Eppendorf, Biohit, Gilson | 96 | 5 414 300 B |
| 101 - 1000 | neutral | witeg, Eppendorf, Biohit, Nichiryo, Gilson, Socorex, Brand | 96 | 5 414 000 B |
| 100 - 1000 | neutral | Eppendorf, Socorex, Gilson | 96 | 5 414 001 B |
| 1 - 30 | neutral | Gilson P20 | 96 | 5 414 030 B |
| 1 - 100 | neutral | Gilson P20, P50, P100 | 96 | 5 414 101 B |
| 1 - 150 | neutral | Gilson P20, P50, P100, P200 | 96 | 5 414 150 B |
| 0.5 - 10 | neutral | witeg, Eppendorf cristal, Socorex | 96 | 5 414 010 B |
| 0.5 - 10 | neutral | Gilson P2, P10 | 96 | 5 414 011 B |



The professional electric pipetting solution

WITOPED XP is a professional electric pipetting aid, suitable for all pipettes up to 100 ml. The special features like speed adjustable suction and dispensing buttons, the comfortable base which allows stable placing of the device inclusive attached pipette as well as the high-precision, long lasting motor make **WITOPED XP** an indispensable device in your laboratory.

Nosepiece release

This button protects against accidentally releasing the nosepiece.

Removable stand

The removable stand allows stable placing of the device along with attached pipette.

Nosepiece

The nosepiece is suitable for all kinds of pipettes. In case of contamination, the nosepiece can be easily removed in order to exchange the filter and the silicone adapter.



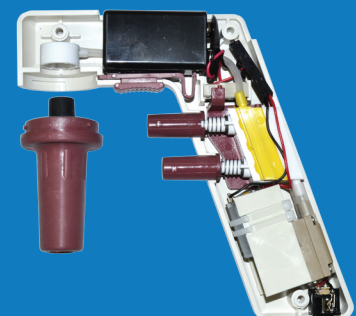
Dispenser buttons

The buttons can be individually adjusted to your application by turning:

- (F) Fast = 10 ml/s
- (M) Medium = 5 ml/s
- (S) Slow = 1 ml/s
- (G) Gravity drain

Motor

The high-precision motor is robust and made for a long life time.



Pipetting aid

Your advantage at a glance:



- high-quality instrument, most competitive price
- high-precision, durable motor
- individual adjustment of suction and dispensing speed
- three pipetting speeds selectable:
 - (F) Fast = 10 ml/s
 - (M) Medium = 5 ml/s
 - (S) Slow = 1 ml/s
- (G) Gravity drain
- gravity drain mode for draining out without using any motor
- suitable for all pipettes up to 100 ml
- handy and light weighted for fatigue-proof pipetting
- tight fit of any pipette into the pipette socket
- nosepiece with replaceable filter and silicone adapter
- nosepiece autoclavable at 121°C
- removable stand for stable holding of instrument along with attached pipette
- including wall bracket
- including NiMH 8,4V 200mAh battery
- CE label

WITOPED XP Professional

| Type | Order number |
|------|--------------|
| 230V | 5 380 001 |
| 120V | 5 380 002 |

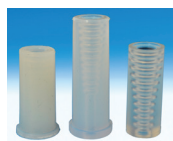
Scope of supply

WITOPED XP, battery charger, replacement filters, removable stand, instruction manual



Replacement one-way filter

| Packaging unit | Order number |
|----------------|--------------|
| 5 | 5 380 006 |



Replacement silicone adapter

| Order number |
|--------------|
| 5 380 004 |

The economic electric pipetting solution

WITOPED eco is an economically priced electrical pipette aid, suitable for all pipettes up to 100 ml.

Nosepiece

The nosepiece is suitable for all kinds of pipettes. In case of contamination, the nosepiece can be easily removed in order to exchange the filter and the silicone adapter.



Dispenser buttons

The WITOPED eco has two buttons, one for aspirating the liquid (up), one for releasing the liquid (down).

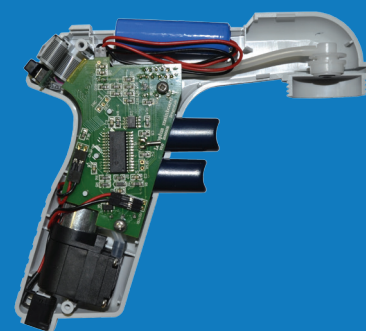
Digital display and speed setting

The LCD display indicates battery status and set speed. The pipetting speed can be adjusted by pushing the "+/-" buttons.



Motor

The powerful motor ensures fast and reliable pipetting.





Pipetting aid

Your advantage at a glance:

- suitable for all pipettes up to 100 ml
- most affordable price in its class
- digital display indicating battery status and selected speed
- efficient battery for a long runtime, low battery alert
- fine adjustment of pipetting speed
- tight fit of any pipette into the pipette socket
- handy and light weighted for fatigue-free pipetting
- simple but powerful motor for fast and reliable pipetting
- gravity drain mode for draining out without using any motor
- nosepiece with replaceable filter and silicone adapter
- silicone adapter autoclavable at 121°C
- including Li-ion 3,7V 1100mAh battery
- CE label

WITOPED eco

| Type | Order number |
|------|--------------|
| 230V | 5 381 000 |

Scope of supply

WITOPED eco, battery charger, replacement filter, table stand, instruction manual

Replacement one-way filter



| Packaging unit | Order number |
|----------------|--------------|
| 5 | 5 380 006 E |

Replacement silicone adapter



| Order number |
|--------------|
| 5 382 010 |

The simplest pipetting solution

WITO pipette controller is the classical pipetting aid, suitable for all pipettes up to 100 ml.

Suction bellow

The pipette is easily filled by squeezing the suction bellow.

Controller

The pipetting mechanism is mechanical and therefore maintenance-free.

Nosepiece

The nosepiece is suitable for all pipettes up to 100 ml. In case of contamination, the nosepiece can be easily removed in order to exchange the filter and the silicone adapter.

Pipetting lever

With the spring-loaded lever the selection between suction (up) and dispensing (down) can be easily made.

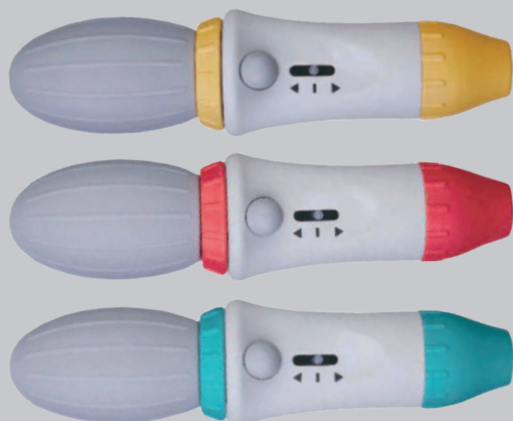
Technique inside

WITO pipette controller delivers reliable results.



WITO pipette controller

Pipetting aid



Your advantage at a glance:

- good quality for an affordable price
- simple, maintenance-free device
- robust and light weighted
- made for a long life time
- easy selection between suction and dispensing
- available in 4 colors
- silicone adapter autoclavable at 121°C



WITO pipette controller with integrated one way filter

| Color | Order number |
|--------|--------------|
| Blue | 5 382 000 |
| Yellow | 5 382 001 |
| Green | 5 382 002 |
| Red | 5 382 004 |

Scope of supply

WITO pipette controller, replacement filter



Replacement one-way filter

| Packaging unit | Order number |
|----------------|--------------|
| 5 | 5 382 006 |



Replacement silicone adapter

| Order number |
|--------------|
| 5 382 020 |

WITO pipetting tools

Pipette filler with 3 valves

made of natural rubber, standard model for pipettes up to 100 ml, resistant to age and chemicals

| | Color | Order number |
|---|-------|--------------|
| Standard up to 10 ml | red | 3 965 000 |
| Standard up to 10 ml | black | 3 965 001 |
| Standard up to 10 ml | green | 3 965 002 |
| Standard up to 10 ml | blue | 3 965 003 |
| Universal with elongated cone up to 100ml | red | 3 966 000 |
| Universal with adapter up to 100ml | red | 3 965 100 |

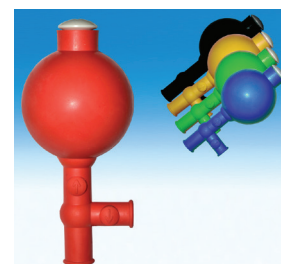
NEW COLOURS



Flip-Pipette filler with 2 valves

easy to use, two pressure valves for suction and release of liquid up to 100 ml, one automatic air purge valve, effective cleaning by removing the automatic valve, in 5 different colors available

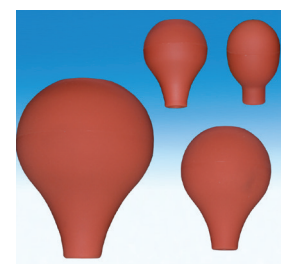
| Color | Order number |
|--------|--------------|
| red | 3 967 000 |
| black | 3 967 001 |
| yellow | 3 967 002 |
| blue | 3 967 003 |
| green | 3 967 004 |



Suction bulb

made of PVC, for pipettes with diameter of 6 mm

| Size | Suction volume | Ball diameter | Order number |
|---------------|----------------|---------------|--------------|
| B oval | 5 ml | 25 mm | 3 597 001 |
| 0 | 8 ml | 30 mm | 3 597 002 |
| 2 | 25 ml | 42 mm | 3 597 003 |
| 3 | 40 ml | 48 mm | 3 597 004 |
| 5 | 89 ml | 62 mm | 3 597 005 |
| 7 | 143 ml | 72 mm | 3 597 006 |
| 9 | 224 ml | 84 mm | 3 597 007 |
| 11 | 347 ml | 94 mm | 3 597 008 |



Suction bulbs for pipettes 1 - 15 ml

| For capacity | Material | Pack size | Order number |
|---------------------|----------|-----------|--------------|
| approx. 2 ml | rubber | 10 pcs. | 3 968 000 |
| 1 ml | silicone | 10 pcs. | 3 968 001 S |
| 3 ml | silicone | 10 pcs. | 3 968 002 S |
| 5 ml | silicone | 10 pcs. | 3 968 005 S |
| 10 ml | silicone | 10 pcs. | 3 968 010 S |



Universal safety pipette bulb

red rubber and silicone pipette bulb for pipettes up to 25 ml
made of synthetic rubber and silicone

NEW

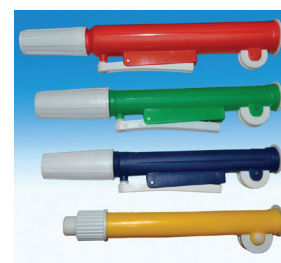
| For capacity | Order number |
|--------------|--------------|
| 15 ml | 3 595 000 |



Pipette pump with fast release „pi-pump“

made of PP, suitable for pipettes up to 25 ml, suction and dispensing achieved by rotating the thumbwheel with exception of the 0.2 ml pi-pump, an additional lever releases vacuum to let liquid flow quickly

| For capacity | Color-code | Order number |
|---------------------|------------|--------------|
| 0.2 ml | yellow | 7 032 001 |
| 2 ml | blue | 7 032 002 |
| 10 ml | green | 7 032 003 |
| 25 ml | red | 7 032 004 |
| Stand for „pi-pump“ | | 7 032 111 |



Laboratory glassware

Graduated pipettes

Volumetric pipettes

Volumetric flasks

Graduated cylinder

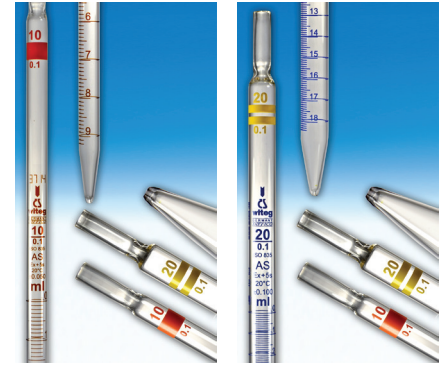
Burettes

and many more...



Class AS

- color-code to avoid confusion
- made of soda-lime glass
- zero point at the upper end of the scale
- main point ring graduation
- tolerance according to DIN EN ISO 835
- DE-M marked according to the German calibration law
- calibrated to deliver (EX), 5 sec waiting time
- standard and special sizes available
- inclusive batch certificate

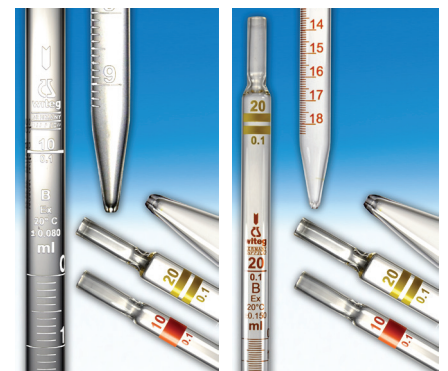


| Capacity ml | Division ml | Tolerance ml | Color-Code | Delivery time seconds | Order number | |
|----------------|----------------|-----------------|------------|--------------------------|-----------------|----------------|
| | | | | | brown graduated | blue graduated |
| 0.1 | 0.01 | ±0.006 | white | 2 - 8 | 3 510 011 | 3 510 011 BL |
| 0.2 | 0.01 | ±0.006 | black | 2 - 8 | 3 510 021 | 3 510 021 BL |
| 0.2* | 0.002 | ±0.006 | white x2 | 2 - 8 | 3 510 022 | 3 510 022 BL |
| 0.5 | 0.01 | ±0.006 | yellow x2 | 4 - 10 | 3 510 051 | 3 510 051 BL |
| 1 | 0.01 | ±0.007 | yellow | 4 - 10 | 3 510 101 | 3 510 101 BL |
| 1 | 0.1 | ±0.007 | red | 4 - 10 | 3 510 110 | 3 510 110 BL |
| 2* | 0.01 | ±0.010 | white x2 | 4 - 10 | 3 510 201 | 3 510 201 BL |
| 2 | 0.02 | ±0.010 | black | 4 - 10 | 3 510 202 | 3 510 202 BL |
| 2 | 0.1 | ±0.010 | green | 4 - 10 | 3 510 210 | 3 510 210 BL |
| 5 | 0.05 | ±0.030 | red | 7 - 13 | 3 510 505 | 3 510 505 BL |
| 5 | 0.1 | ±0.030 | blue | 7 - 13 | 3 510 510 | 3 510 510 BL |
| 10 | 0.1 | ±0.050 | orange | 7 - 13 | 3 510 710 | 3 510 710 BL |
| 20 | 0.1 | ±0.100 | yellow x2 | 11 - 17 | 3 510 810 | 3 510 810 BL |
| 25 | 0.1 | ±0.100 | white | 11 - 17 | 3 510 910 | 3 510 910 BL |
| 50* | 0.2 | ±0.200 | black | - | 3 510 950 | 3 510 950 BL |

* special size in addition to the ISO 835 range, without conformity certificate

Class B

- color-coded to avoid confusion
- made of soda-lime glass
- zero point at the upper end of the scale
- short line graduation
- tolerance according to DIN EN ISO 835
- our error ranges are better than the DIN EN ISO 835 requirements
- calibrated to deliver (EX)
- without waiting time
- standard and special sizes available



| Capacity ml | Division ml | Tolerance | | Color-Code | Delivery time seconds | Order number | |
|----------------|----------------|-------------|-----------|------------|--------------------------|-----------------|-----------------|
| | | witeg ml | ISO ml | | | white graduated | brown graduated |
| 0.1 | 0.01 | ±0.010 | ±0.010 | white | 2 - 12 | 3 500 011 W | 3 500 011 |
| 0.2 | 0.01 | ±0.010 | ±0.010 | black | 2 - 12 | 3 500 021 W | 3 500 021 |
| 0.2* | 0.002 | ±0.010 | ±0.010 | white x2 | 2 - 12 | 3 500 022 W | 3 500 022 |
| 0.5 | 0.01 | ±0.010 | ±0.010 | yellow x2 | 2 - 12 | 3 500 051 W | 3 500 051 |
| 1 | 0.01 | ±0.010 | ±0.010 | yellow | 2 - 12 | 3 500 101 W | 3 500 101 |
| 1 | 0.1 | ±0.010 | ±0.010 | red | 2 - 12 | 3 500 110 W | 3 500 110 |
| 2* | 0.01 | ±0.015 | ±0.020 | white x2 | 2 - 12 | 3 500 201 W | 3 500 201 |
| 2 | 0.02 | ±0.015 | ±0.020 | black | 2 - 12 | 3 500 202 W | 3 500 202 |
| 2 | 0.1 | ±0.015 | ±0.020 | green | 2 - 12 | 3 500 210 W | 3 500 210 |
| 5 | 0.05 | ±0.040 | ±0.050 | red | 5 - 15 | 3 500 505 W | 3 500 505 |
| 5 | 0.1 | ±0.040 | ±0.050 | blue | 5 - 15 | 3 500 510 W | 3 500 510 |
| 10 | 0.1 | ±0.080 | ±0.100 | orange | 5 - 15 | 3 500 710 W | 3 500 710 |
| 20 | 0.1 | ±0.150 | ±0.200 | yellow x2 | 9 - 20 | 3 500 810 W | 3 500 810 |
| 25 | 0.1 | ±0.200 | ±0.200 | white | 9 - 20 | 3 500 910 W | 3 500 910 |
| 50* | 0.2 | ±0.400 | ±0.400 | black | - | 3 500 950 W | 3 500 950 |

* special size in addition to the ISO 835 range

Graduated pipettes

USP

- color-code to avoid confusion
- made of soda-lime glass
- zero point at the upper end of the scale
- main point ring graduation
- tolerance according to ASTM E 1293
- produced according to DIN EN ISO 835
- DE-M marked according to the German calibration law
- calibrated to deliver (EX), 5 sec waiting time
- inclusive batch certificate



| Capacity ml | Division ml | Tolerance USP ml | Color-Code | Order number | |
|----------------|----------------|---------------------|------------|------------------|-----------------|
| | | | | blue graduated | brown graduated |
| 1 | 0.01 | ±0.01 | yellow | 3 510 101 BL USP | 3 510 101 USP |
| 2 | 0.02 | ±0.01 | black | 3 510 202 BL USP | 3 510 202 USP |
| 5 | 0.05 | ±0.02 | red | 3 510 505 BL USP | 3 510 505 USP |
| 5 | 0.1 | ±0.02 | blue | 3 510 510 BL USP | 3 510 510 USP |
| 10 | 0.1 | ±0.03 | orange | 3 510 710 BL USP | 3 510 710 USP |

Class AS - enzymatic analysis

- color-coded to avoid confusion
- made of soda-lime glass
- zero point at the upper end of the scale
- main point ring graduation
- DE-M marked according to the German calibration law
- calibrated to deliver (EX)
- according to DIN 12699
- inclusive batch certificate



| Capacity ml | Division ml | Tolerance ml | Color-Code | Delivery time seconds | Order number | |
|----------------|----------------|-----------------|------------|--------------------------|----------------|-----------------|
| | | | | | blue graduated | brown graduated |
| 0.1 | 0.001 | 0.003 | green x3 | 2 - 8 | 3 517 011 BL | 3 517 011 |
| 0.2 | 0.001 | 0.003 | blue x3 | 2 - 8 | 3 517 021 BL | 3 517 021 |
| 0.5 | 0.01 | 0.005 | yellow x3 | 2 - 8 | 3 517 051 BL | 3 517 051 |
| 1 | 0.01 | 0.006 | yellow x2 | 2 - 8 | 3 517 101 BL | 3 517 101 |
| 2 | 0.02 | 0.010 | black x2 | 2 - 8 | 3 517 202 BL | 3 517 202 |
| 5 | 0.05 | 0.030 | red x2 | 5 - 11 | 3 517 505 BL | 3 517 505 |
| 10 | 0.1 | 0.050 | orange x2 | 5 - 11 | 3 517 710 BL | 3 517 710 |

Pipette stand, universal use, detachable

made of PP, for maximum of 94 pipettes, specially designed to prevent any damage to the pipette tip. Residual liquids are retained by reinforced rim.

Order number

7 081 001



Volumetric pipettes

Class AS

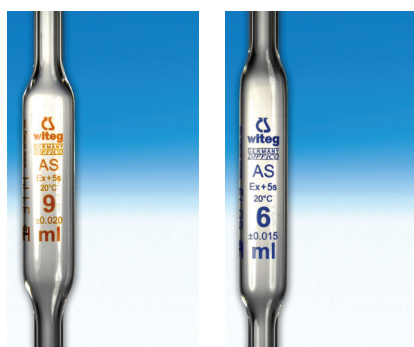
- color-code to avoid confusion
- made of soda-lime glass
- tolerance according to DIN EN ISO 648
- DE-M marked according to the German calibration law
- calibrated to deliver (EX), 5 sec waiting time
- inclusive batch certificate



| Capacity ml | Tolerance ml | Color-Code | Order number | |
|----------------|-----------------|------------|-----------------|----------------|
| | | | brown graduated | blue graduated |
| 0.5 | ±0.005 | black x2 | 3 535 005 | 3 535 005 BL |
| 1 | ±0.008 | blue | 3 535 010 | 3 535 010 BL |
| 2 | ±0.010 | orange | 3 535 020 | 3 535 020 BL |
| 5 | ±0.015 | white | 3 535 050 | 3 535 050 BL |
| 10 | ±0.020 | red | 3 535 100 | 3 535 100 BL |
| 20 | ±0.030 | yellow | 3 535 200 | 3 535 200 BL |
| 25 | ±0.030 | blue | 3 535 250 | 3 535 250 BL |
| 50 | ±0.050 | red | 3 535 500 | 3 535 500 BL |
| 100 | ±0.080 | yellow | 3 535 900 | 3 535 900 BL |

Class AS - special sizes

- color-code to avoid confusion
- made of soda-lime glass
- tolerance on basis of DIN EN ISO 648
- DE-M marked according to the German calibration law
- calibrated to deliver (EX), 5 sec waiting time
- inclusive batch certificate



| Capacity ml | Tolerance ml | Color-Code | Order number | |
|----------------|-----------------|------------|-----------------|----------------|
| | | | brown graduated | blue graduated |
| 3 | ±0.010 | black | 3 535 030 | 3 535 030 BL |
| 3.5 | ±0.010 | - | 3 535 035 | 3 535 035 BL |
| 4 | ±0.015 | red x2 | 3 535 040 | 3 535 040 BL |
| 4.5 | ±0.015 | - | 3 535 045 | 3 535 045 BL |
| 5.5 | ±0.015 | - | 3 535 055 | 3 535 055 BL |
| 5.85 | ±0.015 | - | 3 535 0585 | 3 535 0585 BL |
| 6 | ±0.015 | orange x2 | 3 535 060 | 3 535 060 BL |
| 7 | ±0.015 | green x2 | 3 535 070 | 3 535 070 BL |
| 7.5 | ±0.015 | - | 3 535 075 | 3 535 075 BL |
| 8 | ±0.020 | blue | 3 535 080 | 3 535 080 BL |
| 9 | ±0.020 | black | 3 535 090 | 3 535 090 BL |
| 11 | ±0.020 | - | 3 535 110 | 3 535 110 BL |
| 12 | ±0.020 | - | 3 535 120 | 3 535 120 BL |
| 12.5 | ±0.020 | - | 3 535 125 | 3 535 125 BL |
| 13 | ±0.020 | - | 3 535 130 | 3 535 130 BL |
| 14 | ±0.020 | - | 3 535 140 | 3 535 140 BL |
| 15 | ±0.020 | green | 3 535 150 | 3 535 150 BL |
| 16 | ±0.030 | - | 3 535 160 | 3 535 160 BL |
| 17 | ±0.030 | - | 3 535 170 | 3 535 170 BL |
| 18 | ±0.030 | - | 3 535 180 | 3 535 180 BL |
| 19 | ±0.030 | - | 3 535 190 | 3 535 190 BL |
| 21 | ±0.030 | - | 3 535 210 | 3 535 210 BL |
| 30 | ±0.030 | black | 3 535 300 | 3 535 300 BL |
| 32 | ±0.030 | - | 3 535 320 | 3 535 320 BL |
| 35 | ±0.030 | - | 3 535 350 | 3 535 350 BL |
| 38.5 | ±0.050 | - | 3 535 038 | 3 535 038 BL |
| 39.06 | ±0.050 | - | 3 535 039 | 3 535 039 BL |
| 40 | ±0.050 | white | 3 535 400 | 3 535 400 BL |
| 60 | ±0.050 | - | 3 535 600 | 3 535 600 BL |
| 70 | ±0.050 | - | 3 535 700 | 3 535 700 BL |
| 75 | ±0.050 | green | 3 535 750 | 3 535 750 BL |
| 80 | ±0.080 | - | 3 535 800 | 3 535 800 BL |
| 90 | ±0.080 | - | 3 535 901 | 3 535 901 BL |
| 200 | ±0.120 | blue | 3 535 920 | - |
| 250 | ±0.120 | - | 3 535 925 | 3 535 925 BL |

further sizes on request

Volumetric pipettes

Class B

- color-code to avoid confusion
- made of soda-lime glass
- tolerance according to DIN EN ISO 648
- our error ranges are better than the DIN EN ISO 648 requirements
- calibrated to deliver (EX), without waiting time
- standard and special sizes available



| Capacity ml | Tolerance | | Color-Code | Order number |
|----------------|-------------|-----------|------------|--------------|
| | witeg ml | ISO ml | | |
| 0.5 | ±0.010 | ±0.010 | black x2 | 3 530 005 |
| 1 | ±0.015 | ±0.015 | blue | 3 530 010 |
| 2 | ±0.015 | ±0.020 | orange | 3 530 020 |
| 3* | ±0.015 | - | black | 3 530 030 |
| 5 | ±0.020 | ±0.030 | white | 3 530 050 |
| 10 | ±0.030 | ±0.040 | red | 3 530 100 |
| 15* | ±0.040 | - | green | 3 530 150 |
| 20 | ±0.050 | ±0.060 | yellow | 3 530 200 |
| 25 | ±0.050 | ±0.060 | blue | 3 530 250 |
| 50 | ±0.080 | ±0.100 | red | 3 530 500 |
| 100 | ±0.120 | ±0.150 | yellow | 3 530 900 |

* special size in addition to the ISO 648 range

USP

- color-code to avoid confusion
- made of soda-lime glass
- tolerance according to ASTM E 969
- produced according to DIN EN ISO 648
- DE-M marked according to the German calibration law
- calibrated to deliver (EX), 5 sec waiting time
- inclusive batch certificate



| Capacity ml | Tolerance USP ml | Color-Code | Order number | |
|----------------|---------------------|------------|------------------|-----------------|
| | | | blue graduated | brown graduated |
| 0.5 | ±0.006 | black x2 | 3 535 005 BL USP | 3 535 005 USP |
| 1 | ±0.006 | blue | 3 535 010 BL USP | 3 535 010 USP |
| 2 | ±0.006 | orange | 3 535 020 BL USP | 3 535 020 USP |
| 3 | ±0.01 | black | 3 535 030 BL USP | 3 535 030 USP |
| 4 | ±0.01 | red x2 | 3 535 040 BL USP | 3 535 040 USP |
| 5 | ±0.01 | white | 3 535 050 BL USP | 3 535 050 USP |
| 6 | ±0.01 | orange x2 | 3 535 060 BL USP | 3 535 060 USP |
| 7 | ±0.01 | green x2 | 3 535 070 BL USP | 3 535 070 USP |
| 8 | ±0.02 | blue | 3 353 080 BL USP | 3 353 080 USP |
| 9 | ±0.02 | black | 3 535 090 BL USP | 3 535 090 USP |
| 10 | ±0.02 | red | 3 535 100 BL USP | 3 535 100 USP |
| 12* | ±0.03 | - | 3 535 120 BL USP | 3 535 120 USP |
| 15 | ±0.03 | green | 3 535 150 BL USP | 3 535 150 USP |
| 20 | ±0.03 | yellow | 3 535 200 BL USP | 3 535 200 USP |
| 25 | ±0.03 | blue | 3 535 250 BL USP | 3 535 250 USP |
| 30 | ±0.03 | black | 3 535 300 BL USP | 3 535 300 USP |
| 40 | ±0.05 | white | 3 535 400 BL USP | 3 535 400 USP |
| 50 | ±0.05 | red | 3 535 500 BL USP | 3 535 500 USP |
| 100 | ±0.08 | yellow | 3 535 900 BL USP | 3 535 900 USP |

* special size in addition according to the ASTM E 969 range

Volumetric flasks

Volumetric flask with socket, class A



- made of DURAN® tubing
- tolerance according to DIN EN ISO 1042
- DE-M marked according to the German calibration law
- standard and special sizes available
- inclusive batch certificate

Special sizes

| Capacity | Tolerance | Socket | Order number | | |
|----------|-----------|--------|---------------------------------|--------------------------------|--|
| ml | ml | ST | brown graduated with PE-stopper | blue graduated with PE-stopper | brown graduated with ST-hollow glass stopper |
| 5 | ±0.025 | 7/16 | 3 664 000 | 3 664 000 BL | 3 668 000 |
| 5 | ±0.040 | 10/19 | 3 664 015 | 3 664 015 BL | 3 668 015 |
| 10 | ±0.025 | 7/16 | 3 664 001 | 3 664 001 BL | 3 668 001 |
| 10 | ±0.040 | 10/19 | 3 664 012 | 3 664 012 BL | 3 668 012 |
| 10* | ±0.060 | 14/23 | 3 664 00114 | 3 664 00114 BL | 3 668 00114 |
| 10* | ±0.060 | 12/21 | - | 3 664 01212 BL | - |
| 15* | ±0.040 | 10/19 | 3 664 016 | 3 664 016 BL | 3 668 016 |
| 20* | ±0.040 | 7/16 | 3 664 021 | 3 664 021 BL | 3 668 021 |
| 20 | ±0.040 | 10/19 | 3 664 002 | 3 664 002 BL | 3 668 002 |
| 20 | ±0.060 | 12/21 | 3 664 013 | 3 664 013 BL | 3 668 013 |
| 20* | ±0.060 | 14/23 | 3 664 00214 | 3 664 00214 BL | 3 668 00214 |
| 25 | ±0.040 | 10/19 | 3 664 003 | 3 664 003 BL | 3 668 003 |
| 25 | ±0.060 | 12/21 | 3 664 014 | 3 664 014 BL | 3 668 014 |
| 25* | ±0.060 | 14/23 | 3 664 00314 | 3 664 00314 BL | 3 668 00314 |
| 50 | ±0.060 | 12/21 | 3 664 005 | 3 664 005 BL | 3 668 005 |
| 50 | ±0.100 | 14/23 | 3 664 006 | 3 664 006 BL | 3 668 006 |
| 75* | ±0.060 | 12/21 | 3 664 0075 | - | 3 668 0075 |
| 100 | ±0.100 | 12/21 | 3 664 010 | 3 664 010 BL | 3 668 010 |
| 100 | ±0.100 | 14/23 | 3 664 011 | 3 664 011 BL | 3 668 011 |
| 100* | ±0.150 | 19/26 | 3 664 135 | - | 3 668 135 |
| 150* | ±0.100 | 14/23 | 3 664 150 | - | 3 668 150 |
| 192.2* | ±0.150 | 14/23 | 3 664 192 | 3 664 192 BL | 3 668 192 |
| 200 | ±0.150 | 14/23 | 3 664 020 | 3 664 020 BL | 3 668 020 |
| 250 | ±0.150 | 14/23 | 3 664 025 | 3 664 025 BL | 3 668 025 |
| 300* | ±0.150 | 14/23 | 3 664 030 | - | 3 668 030 |
| 350* | ±0.150 | 19/26 | 3 664 035 | - | 3 668 035 |
| 368.3* | ±0.150 | 19/26 | - | 3 664 368 BL | - |
| 400* | ±0.250 | 19/26 | 3 664 040 | - | 3 668 040 |
| 500* | ±0.250 | 14/23 | 3 664 049 | - | 3 668 049 |
| 500 | ±0.250 | 19/26 | 3 664 050 | 3 664 050 BL | 3 668 050 |
| 600* | ±0.400 | 24/29 | 3 664 060 | - | 3 668 060 |
| 800* | ±0.400 | 24/29 | 3 664 080 | - | 3 668 080 |
| 900* | ±0.400 | 24/29 | 3 664 090 | - | 3 668 090 |
| 1000 | ±0.400 | 24/29 | 3 664 100 | 3 664 100 BL | 3 668 100 |
| 1000 | ±0.600 | 29/32 | 3 664 101 | 3 664 101 BL | 3 668 101 |
| 2000 | ±0.600 | 29/32 | 3 664 200 | 3 664 200 BL | 3 668 200 |
| 3000* | ±0.800 | 29/32 | 3 664 300 | 3 664 300 BL | 3 668 300 |
| 5000* | ±1.200 | 29/32 | 3 664 499 | - | 3 668 499 |
| 5000 | ±1.200 | 34/35 | 3 664 500 | 3 664 500 BL | 3 668 500 |

* special size in addition to the ISO 1042 range, with conformity certificate



NEW

All volumetric flasks with ground joint neck can be ordered with spout.

Just add „A“ at the end of the order number.

Example: „3 664 005 A“ or „3 664 100 BL A“

NEW

All brown graduated volumetric flasks with ST-hollow glass

stoppers can be ordered with blue graduation.

Just add „BL“ at the end of the order number.

Example: „3 668 014 BL“ or „3 668 500 BL“



Volumetric flasks

Volumetric flask with socket amber-stained, class A



- made of borosilicate glass 3.3
- tolerance according to DIN EN ISO 1042
- DE-M marked according to the German calibration law
- standard and special sizes available
- inclusive batch certificate

| Capacity | Tolerance | Socket | Order number | |
|----------|-----------|--------|--|---------------------------------|
| ml | ml | ST | white graduated with ST-hollow glass stopper | white graduated with PE-stopper |
| 2 | ±0.040 | 10/19 | 3 670 022 | 3 670 022 P |
| 5 | ±0.025 | 7/16 | 3 670 000 | 3 670 000 P |
| 5 | ±0.040 | 10/19 | 3 670 015 | 3 670 015 P |
| 10 | ±0.025 | 7/16 | 3 670 001 | 3 670 001 P |
| 10 | ±0.040 | 10/19 | 3 670 012 | 3 670 012 P |
| 10* | ±0.060 | 14/23 | 3 670 00114 | 3 670 00114 P |
| 15* | ±0.040 | 10/19 | 3 670 016 | 3 670 016 P |
| 15* | ±0.060 | 12/21 | 3 670 0016 | 3 670 0016 P |
| 20* | ±0.040 | 7/16 | 3 670 013 7 | 3 670 013 7 P |
| 20 | ±0.040 | 10/19 | 3 670 002 | 3 670 002 P |
| 20 | ±0.060 | 12/21 | 3 670 013 | 3 670 013 P |
| 20* | ±0.060 | 14/23 | 3 670 017 | 3 670 017 P |
| 25 | ±0.040 | 10/19 | 3 670 003 | 3 670 003 P |
| 25 | ±0.060 | 12/21 | 3 670 014 | 3 670 014 P |
| 25* | ±0.060 | 14/23 | 3 670 018 | 3 670 018 P |
| 50 | ±0.060 | 12/21 | 3 670 005 | 3 670 005 P |
| 50 | ±0.100 | 14/23 | 3 670 006 | 3 670 006 P |
| 100 | ±0.100 | 12/21 | 3 670 010 | 3 670 010 P |
| 100 | ±0.100 | 14/23 | 3 670 011 | 3 670 011 P |
| 125* | ±0.100 | 14/23 | 3 670 125 | 3 670 125 P |
| 150* | ±0.100 | 14/23 | 3 670 150 | 3 670 150 P |
| 200 | ±0.150 | 14/23 | 3 670 020 | 3 670 020 P |
| 250 | ±0.150 | 14/23 | 3 670 025 | 3 670 025 P |
| 250* | ±0.400 | 29/32 | 3 670 025 29 | 3 670 025 29 P |
| 300* | ±0.150 | 14/23 | 3 670 030 | 3 670 030 P |
| 500* | ±0.250 | 14/23 | 3 670 049 | 3 670 049 P |
| 500 | ±0.250 | 19/26 | 3 670 050 | 3 670 050 P |
| 500* | ±0.400 | 29/32 | 3 670 051 | 3 670 051 P |
| 1000 | ±0.400 | 24/29 | 3 670 100 | 3 670 100 P |
| 1000 | ±0.600 | 29/32 | 3 670 101 | 3 670 101 P |
| 2000 | ±0.600 | 29/32 | 3 670 200 | 3 670 200 P |
| 5000 | ±1.200 | 34/35 | 3 670 500 | 3 670 500 P |

* special size in addition to the ISO 1042 range, with conformity certificate



Volumetric flask with screw cap, class A



- made of DURAN® tubing
- tolerance according to DIN EN ISO 1042
- DE-M marked according to the German calibration law
- inclusive batch certificate

| Capacity | Tolerance | Screw thread | Order number | |
|----------|-----------|--------------|--------------------------------|-----------|
| ml | ml | GL | brown graduated with screw cap | |
| 5 | ±0.040 | 14 | | 3 642 000 |
| 10 | ±0.040 | 14 | | 3 642 001 |
| 20 | ±0.040 | 14 | | 3 642 002 |
| 25 | ±0.040 | 14 | | 3 642 003 |
| 50 | ±0.060 | 18 | | 3 642 005 |
| 100 | ±0.100 | 18 | | 3 642 010 |
| 200 | ±0.150 | 18 | | 3 642 020 |
| 250 | ±0.150 | 18 | | 3 642 025 |
| 500 | ±0.250 | 25 | | 3 642 050 |
| 1000 | ±0.400 | 32 | | 3 642 100 |
| 2000 | ±0.600 | 32 | | 3 642 200 |
| 5000 | ±1.200 | 32 | | 3 642 500 |



Volumetric flasks

Volumetric flask trapezoidal with socket class A

- made of DURAN® tubing
- tolerance according to DIN EN ISO 1042
- DE-M marked according to the German calibration law
- standard and special sizes available
- inclusive batch certificate



| Capacity ml | Tolerance ml | Socket ST | Order number | |
|----------------|-----------------|--------------|------------------------------------|-----------------------------------|
| | | | brown graduated with PE-stopper | blue graduated with PE-stopper |
| 1 | ±0.025 | 7/16 | 3 669 000 | 3 669 000 BL |
| 1 | ±0.040 | 10/19 | 3 669 00010 | 3 669 00010 BL |
| 2 | ±0.025 | 7/16 | 3 669 001 | 3 669 001 BL |
| 3* | ±0.025 | 7/16 | 3 669 002 | 3 669 002 BL |
| 3* | ±0.040 | 10/19 | - | 3 669 00210 BL |
| 4* | ±0.025 | 7/16 | 3 669 0024 | - |
| 4* | ±0.040 | 10/19 | 3 669 035 | 3 669 035 BL |
| 5 | ±0.025 | 7/19 | 3 669 003 | 3 669 003 BL |
| 5 | ±0.040 | 10/19 | 3 669 015 | 3 669 015 BL |
| 10 | ±0.025 | 7/16 | 3 669 005 | 3 669 005 BL |
| 10 | ±0.040 | 10/19 | 3 669 010 | 3 669 010 BL |
| 20 | ±0.040 | 10/19 | 3 669 020 | 3 669 020 BL |
| 25 | ±0.040 | 10/19 | 3 669 025 | 3 669 025 BL |
| 25 | ±0.060 | 12/21 | 3 669 014 | 3 669 014 BL |
| 50 | ±0.060 | 12/21 | 3 669 050 | 3 669 050 BL |
| 50 | ±0.100 | 14/23 | 3 669 100 | 3 669 100 BL |
| 100* | ±0.100 | 12/21 | 3 669 200 | 3 669 200 BL |
| 100* | ±0.100 | 14/23 | 3 669 500 | 3 669 500 BL |

* special size in addition to the ISO 1042 range, with conformity certificate



Volumetric flask with socket, USP

- made of DURAN® tubing
- tolerance according to ASTM E 288, produced according to DIN EN ISO 1042
- DE-M marked according to the German calibration law
- standard and special sizes available
- inclusive batch certificate



| Capacity ml | Tolerance USP ml | Socket ST | Order number | | | |
|----------------|---------------------|--------------|-----------------------------------|---|------------------------------------|--|
| | | | blue graduated with PE-stopper | blue graduated with ST-hollow glass stopper | brown graduated with PE-stopper | brown graduated with ST-hollow glass stopper |
| 5 | ±0.02 | 10/19 | 3 664 015 BL USP | 3 668 015 BL USP | 3 664 015 USP | 3 668 015 USP |
| 10 | ±0.02 | 10/19 | 3 664 012 BL USP | 3 668 012 BL USP | 3 664 012 USP | 3 668 012 USP |
| 20* | ±0.03 | 10/19 | 3 664 002 BL USP | 3 668 002 BL USP | 3 664 002 USP | 3 668 002 USP |
| 25 | ±0.03 | 10/19 | 3 664 003 BL USP | 3 668 003 BL USP | 3 664 003 USP | 3 668 003 USP |
| 25 | ±0.08 | 12/21 | 3 664 014 BL USP | 3 668 014 BL USP | 3 664 014 USP | 3 668 014 USP |
| 50 | ±0.05 | 12/21 | 3 664 005 BL USP | 3 668 005 BL USP | 3 664 005 USP | 3 668 005 USP |
| 100 | ±0.08 | 12/21 | 3 664 010 BL USP | 3 668 010 BL USP | 3 664 010 USP | 3 668 010 USP |
| 200 | ±0.10 | 14/23 | 3 664 020 BL USP | 3 668 020 BL USP | 3 664 020 USP | 3 668 020 USP |
| 250 | ±0.12 | 14/23 | 3 664 025 BL USP | 3 668 025 BL USP | 3 664 025 USP | 3 668 025 USP |
| 500 | ±0.20 | 19/26 | 3 664 050 BL USP | 3 668 050 BL USP | 3 664 050 USP | 3 668 050 USP |
| 1000 | ±0.30 | 24/29 | 3 664 100 BL USP | 3 668 100 BL USP | 3 664 100 USP | 3 668 100 USP |
| 2000 | ±0.50 | 29/32 | 3 664 200 BL USP | 3 668 200 BL USP | 3 664 200 USP | 3 668 200 USP |

* special size in addition to the ASTM E 288 range



Volumetric flasks

Volumetric flask with socket amber stained , USP

- made of amber glass
- tolerance according to ASTM E 288, produced according to DIN EN ISO 1042
- DE-M marked according to the German calibration law
- standard and special sizes available
- inclusive batch certificate



| Capacity | Tolerance | Socket | Order number | | |
|----------|-----------|--------|--|---|--|
| ml | USP ml | ST | amber stained white graduated without PE-stopper | amber stained white graduated with PE-stopper | amber stained white graduated with ST-hollow glass stopper |
| 5 | ±0.02 | 10/19 | 3 670 015 OS USP | 3 670 015 P USP | 3 670 015 USP |
| 10 | ±0.02 | 10/19 | 3 670 012 OS USP | 3 670 012 P USP | 3 670 012 USP |
| 20* | ±0.03 | 10/19 | 3 670 002 OS USP | 3 670 002 P USP | 3 670 002 USP |
| 25 | ±0.03 | 10/19 | 3 670 003 OS USP | 3 670 003 P USP | 3 670 003 USP |
| 50 | ±0.05 | 12/21 | 3 670 005 OS USP | 3 670 005 P USP | 3 670 005 USP |
| 100 | ±0.08 | 12/21 | 3 670 010 OS USP | 3 670 010 P USP | 3 670 010 USP |
| 200 | ±0.10 | 14/23 | 3 670 020 OS USP | 3 670 020 P USP | 3 670 020 USP |
| 250 | ±0.12 | 14/23 | 3 670 025 OS USP | 3 670 025 P USP | 3 670 025 USP |
| 500 | ±0.20 | 19/26 | 3 670 050 OS USP | 3 670 050 P USP | 3 670 050 USP |
| 1000 | ±0.30 | 24/29 | 3 670 100 OS USP | 3 670 100 P USP | 3 670 100 USP |
| 2000 | ±0.50 | 29/32 | 3 670 200 OS USP | 3 670 200 P USP | 3 670 200 USP |

* special size in addition to the ASTM E 288 range



Volumetric flask for sugar analysis

- blue ring mark and inscription
- borosilicate glass 3.3



| Capacity | Order number |
|----------|--------------|
| ml | |
| 100 | 3 671 100 |
| 200 | 3 671 200 |



Volumetric flask for sugar analysis

- 2x blue ring marks and inscription
- borosilicate glass 3.3



| Capacity | Order number |
|----------|--------------|
| ml | |
| 50/55 | 3 672 050 |
| 100/110 | 3 672 100 |
| 200/220 | 3 672 200 |



For over-flow flasks for water treatment - see page 67

Graduated cylinder



Graduated cylinder - Class A - tall form - with spout or socket

- made of borosilicate glass 3.3 / DURAN® components
- tolerance according to DIN ISO 4788
- DE-M marked according to the German calibration law
- inclusive batch certificate



| Capacity ml | Division ml | Tolerance ml | Order number | | Socket ST | Order number | |
|----------------|----------------|-----------------|-------------------------------|------------------------------|--------------|------------------------------------|-----------------------------------|
| | | | brown graduated with spout | blue graduated with spout | | brown graduated with PE-stopper | blue graduated with PE-stopper |
| 5 | 0.1 | ±0.05 | 3 715 000 | 3 715 000 BL | 10/19 | 3 754 000 | 3 754 000 BL |
| 10 | 0.2 | ±0.10 | 3 715 001 | 3 715 001 BL | 10/19 | 3 754 001 | 3 754 001 BL |
| 25 | 0.5 | ±0.25 | 3 715 003 | 3 715 003 BL | 14/23 | 3 754 003 | 3 754 003 BL |
| 50 | 1.0 | ±0.50 | 3 715 005 | 3 715 005 BL | 19/26 | 3 754 005 | 3 754 005 BL |
| 100 | 1.0 | ±0.50 | 3 715 010 | 3 715 010 BL | 24/29 | 3 754 010 | 3 754 010 BL |
| 250 | 2.0 | ±1.00 | 3 715 025 | 3 715 025 BL | 29/32 | 3 754 025 | 3 754 025 BL |
| 500 | 5.0 | ±2.50 | 3 715 050 | 3 715 050 BL | 34/35 | 3 754 050 | 3 754 050 BL |
| 1000 | 10.0 | ±5.00 | 3 715 100 | 3 715 100 BL | 45/40 | 3 754 100 | 3 754 100 BL |
| 2000 | 20.0 | ±10.00 | 3 715 200 | 3 715 200 BL | 45/40 | 3 754 200 | 3 754 200 BL |

Graduated cylinder - Class B - tall form - with spout or socket (mixing cylinders)

- made of borosilicate glass 3.3 / DURAN® components
- tolerance according to DIN ISO 4788



| Capacity ml | Division ml | Tolerance ml | Order number | | Socket ST | Order number | |
|----------------|----------------|-----------------|-------------------------------|------------------------------|--------------|------------------------------------|-----------------------------------|
| | | | brown graduated with spout | blue graduated with spout | | brown graduated with PE-stopper | blue graduated with PE-stopper |
| 5 | 0.1 | ±0.1 | 3 705 000 | 3 705 000 BL | 10/19 | 3 752 000 | 3 752 000 BL |
| 10 | 0.2 | ±0.2 | 3 705 001 | 3 705 001 BL | 10/19 | 3 752 001 | 3 752 001 BL |
| 25 | 0.5 | ±0.5 | 3 705 003 | 3 705 003 BL | 14/23 | 3 752 003 | 3 752 003 BL |
| 50 | 1.0 | ±1 | 3 705 005 | 3 705 005 BL | 19/26 | 3 752 005 | 3 752 005 BL |
| 100 | 1.0 | ±1 | 3 705 010 | 3 705 010 BL | 24/29 | 3 752 010 | 3 752 010 BL |
| 250 | 2.0 | ±2 | 3 705 025 | 3 705 025 BL | 29/32 | 3 752 025 | 3 752 025 BL |
| 500 | 5.0 | ±5 | 3 705 050 | 3 705 050 BL | 34/35 | 3 752 050 | 3 752 050 BL |
| 1000 | 10.0 | ±10 | 3 705 100 | 3 705 100 BL | 45/40 | 3 752 100 | 3 752 100 BL |
| 2000 | 20.0 | ±20 | 3 705 200 | 3 705 200 BL | 45/40 | 3 752 200 | 3 752 200 BL |

Graduated cylinder

Graduated cylinder - USP - tall form - with spout

- made of borosilicate glass 3.3 / DURAN® components
- tolerance according to ASTM E 1272
- produced according to DIN ISO 4788
- DE-M marked according to the German calibration law
- inclusive batch certificate

USP

made
in
Germany

NEW

| Capacity | Division | Tolerance | Order number | |
|----------|----------|-----------|---------------------------|----------------------------|
| ml | ml | USP ml | blue graduated with spout | brown graduated with spout |
| 5 | 0.1 | ±0.05 | 3 715 000 BL USP | 3 715 000 USP |
| 10 | 0.2 | ±0.10 | 3 715 001 BL USP | 3 715 001 USP |
| 25 | 0.5 | ±0.17 | 3 715 003 BL USP | 3 715 003 USP |
| 50 | 1.0 | ±0.25 | 3 715 005 BL USP | 3 715 005 USP |
| 100 | 1.0 | ±0.50 | 3 715 010 BL USP | 3 715 010 USP |
| 250 | 2.0 | ±1.00 | 3 715 025 BL USP | 3 715 025 USP |
| 500 | 5.0 | ±2.00 | 3 715 050 BL USP | 3 715 050 USP |
| 1000 | 10.0 | ±3.00 | 3 715 100 BL USP | 3 715 100 USP |
| 2000 | 20.0 | ±6.00 | 3 715 200 BL USP | 3 715 200 USP |



Graduated cylinder - Class B - low form - with spout

- made of borosilicate glass 3.3 / DURAN® components
- tolerance according to DIN ISO 4788

made
in
Germany

| Capacity | Division | Tolerance | Order number |
|----------|----------|-----------|-----------------|
| ml | ml | ml | brown graduated |
| 5 | 0.5 | ±0.20 | 3 707 000 |
| 10 | 1.0 | ±0.30 | 3 707 001 |
| 25 | 1.0 | ±0.50 | 3 707 003 |
| 50 | 2.0 | ±1.00 | 3 707 005 |
| 100 | 2.0 | ±1.00 | 3 707 010 |
| 250 | 5.0 | ±2.00 | 3 707 025 |
| 500 | 10.0 | ±5.00 | 3 707 050 |
| 1000 | 20.0 | ±10.00 | 3 707 100 |
| 2000 | 50.0 | ±20.00 | 3 707 200 |

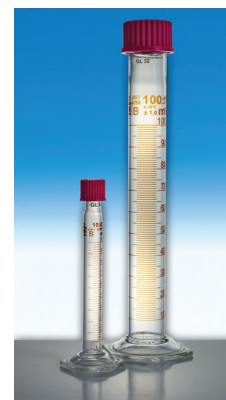


Graduated cylinder - Class B - tall form - with screw cap

- made of borosilicate glass 3.3 / DURAN® components
- tolerance according to DIN ISO 4788

made
in
Germany

| Capacity | Division | Tolerance | Thread | Order number |
|----------|----------|-----------|--------|-----------------|
| ml | ml | ml | GL | brown graduated |
| 10 | 0.2 | ±0.2 | 14 | 3 751 001 |
| 25 | 0.5 | ±0.5 | 18 | 3 751 003 |
| 50 | 1.0 | ±1 | 25 | 3 751 005 |
| 100 | 1.0 | ±1 | 32 | 3 751 010 |
| 250 | 2.0 | ±2 | 45 | 3 751 025 |
| 500 | 5.0 | ±5 | 45 | 3 751 050 |
| 1000 | 10.0 | ±10 | 45 | 3 751 100 |
| 2000 | 20.0 | ±20 | 45 | 3 751 200 |



Graduated cylinder - Class B - tall form - with plastic base

- made of borosilicate glass 3.3 / DURAN® components
- tolerance according to DIN ISO 4788

made
in
Germany

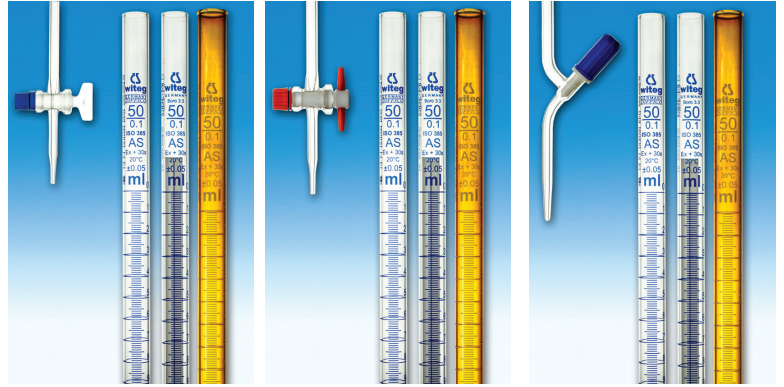
| Capacity | Division | Tolerance | Order number | | | |
|----------|----------|-----------|--------------|--|---|----|
| ml | ml | ml | with spout | Ground joint neck and PE-Stopper brown graduated | thread and screw cap (GL) brown graduated | |
| 5 | 0.1 | ±0.1 | 3 700 000 | - | - | - |
| 10 | 0.2 | ±0.2 | 3 700 001 | 10/19 | 3 750 001 | 14 |
| 25 | 0.5 | ±0.5 | 3 700 003 | 14/23 | 3 750 003 | 18 |
| 50 | 1.0 | ±1 | 3 700 005 | 19/26 | 3 750 005 | 25 |
| 100 | 1.0 | ±1 | 3 700 010 | 24/29 | 3 750 010 | 32 |
| 250 | 2.0 | ±2 | 3 700 025 | 29/32 | 3 750 025 | 45 |
| 500 | 5.0 | ±5 | 3 700 050 | 34/35 | 3 750 050 | 45 |
| 1000 | 10.0 | ±10 | 3 700 100 | 45/40 | 3 750 100 | 45 |
| 2000 | 20.0 | ±20 | 3 700 200 | 45/40 | 3 750 200 | 45 |



Burettes

Class AS - straight stopcocks

- main point ring graduation
- DIN EN ISO 385
- DE-M marked according to the German calibration law
- made of borosilicate glass 3.3
- inclusive batch certificate

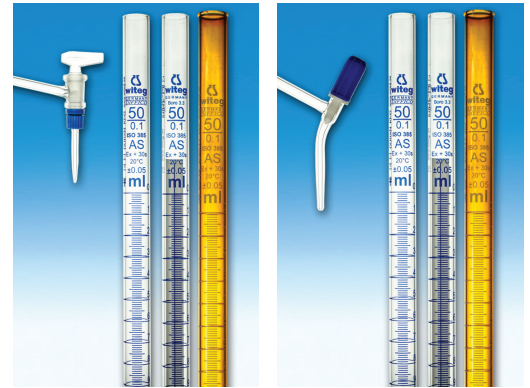


| Capacity ml | Division ml | Tolerance ml | Plug | Order number | | |
|----------------|----------------|-----------------|-------------------|-----------------|---|---------------------------------|
| | | | | blue graduation | blue graduation Schellbach blue line | amber glass white graduation |
| 5 | 0.02 | ±0.01 | solid ST-glass | 3 010 052 | 3 012 052 | 3 014 052 |
| 10 | 0.02 | ±0.02 | | 3 010 102 | 3 012 102 | 3 014 102 |
| 25 | 0.05 | ±0.03 | | 3 010 252 | 3 012 252 | 3 014 252 |
| 50 | 0.1 | ±0.05 | | 3 010 502 | 3 012 502 | 3 014 502 |
| 100 | 0.2 | ±0.1 | | 3 010 902 | 3 012 902 | 3 014 902 |
| 5 | 0.02 | ±0.01 | ST-PTFE | 3 010 053 | 3 012 053 | 3 014 053 |
| 10 | 0.02 | ±0.02 | | 3 010 103 | 3 012 103 | 3 014 103 |
| 25 | 0.05 | ±0.03 | | 3 010 253 | 3 012 253 | 3 014 253 |
| 50 | 0.1 | ±0.05 | | 3 010 503 | 3 012 503 | 3 014 503 |
| 100 | 0.2 | ±0.1 | | 3 010 903 | 3 012 903 | 3 014 903 |
| 5 | 0.02 | ±0.01 | PTFE needle valve | 3 020 057 | 3 022 057 | 3 024 057 |
| 10 | 0.02 | ±0.02 | | 3 020 107 | 3 022 107 | 3 024 107 |
| 25 | 0.05 | ±0.03 | | 3 020 257 | 3 022 257 | 3 024 257 |
| 50 | 0.1 | ±0.05 | | 3 020 507 | 3 022 507 | 3 024 507 |
| 100 | 0.2 | ±0.1 | | 3 020 907 | 3 022 907 | 3 024 907 |

for brown graduation add „B“ behind the order number (not available for amber glass)

Class AS - lateral stopcocks

- main point ring graduation
- DIN EN ISO 385
- DE-M marked according to the German calibration law
- made of borosilicate glass 3.3
- inclusive batch certificate

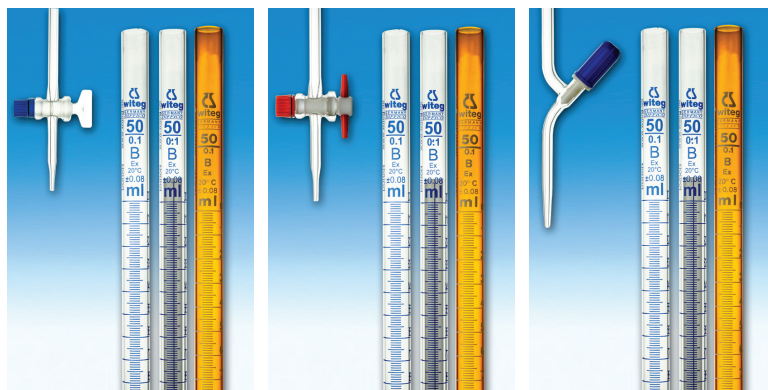


| Capacity ml | Division ml | Tolerance ml | Plug | Order number | | |
|----------------|----------------|-----------------|-------------------|-----------------|---|---------------------------------|
| | | | | blue graduation | blue graduation Schellbach blue line | amber glass white graduation |
| 5 | 0.02 | ±0.01 | solid ST-glass | 3 010 054 | 3 012 054 | 3 014 054 |
| 10 | 0.02 | ±0.02 | | 3 010 104 | 3 012 104 | 3 014 104 |
| 25 | 0.05 | ±0.03 | | 3 010 254 | 3 012 254 | 3 014 254 |
| 50 | 0.1 | ±0.05 | | 3 010 504 | 3 012 504 | 3 014 504 |
| 100 | 0.2 | ±0.1 | | 3 010 904 | 3 012 904 | 3 014 904 |
| 5 | 0.02 | ±0.01 | PTFE needle valve | 3 010 055 | 3 012 055 | 3 014 055 |
| 10 | 0.02 | ±0.02 | | 3 010 105 | 3 012 105 | 3 014 105 |
| 25 | 0.05 | ±0.03 | | 3 010 255 | 3 012 255 | 3 014 255 |
| 50 | 0.1 | ±0.05 | | 3 010 505 | 3 012 505 | 3 014 505 |
| 100 | 0.2 | ±0.1 | | 3 010 905 | 3 012 905 | 3 014 905 |

for brown graduation add „B“ behind the order number (not available for amber glass)

Class B - straight stopcocks

- short line graduation
- DIN EN ISO 385
- error ranges are better than the DIN EN ISO 385 requirements
- made of borosilicate glass 3.3

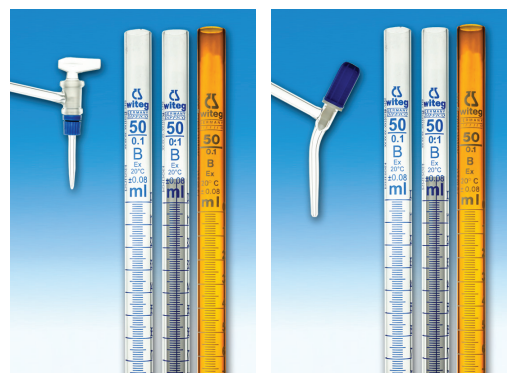


| Capacity ml | Division ml | Tolerance | | Plug | Order number | | |
|----------------|----------------|-------------|-----------|-------------------|-----------------|---|---------------------------------|
| | | witeg ml | ISO ml | | blue graduation | blue graduation Schellbach blue line | amber glass white graduation |
| 5 | 0.02 | ±0.02 | ±0.02 | solid ST-glass | 3 000 052 | 3 002 052 | 3 004 052 |
| 10 | 0.02 | ±0.03 | ±0.05 | | 3 000 102 | 3 002 102 | 3 004 102 |
| 25 | 0.05 | ±0.04 | ±0.05 | | 3 000 252 | 3 002 252 | 3 004 252 |
| 50 | 0.1 | ±0.08 | ±0.1 | | 3 000 502 | 3 002 502 | 3 004 502 |
| 100 | 0.2 | ±0.2 | ±0.2 | | 3 000 902 | 3 002 902 | 3 004 902 |
| 5 | 0.02 | ±0.02 | ±0.02 | ST-PTFE | 3 000 053 | 3 002 053 | 3 004 053 |
| 10 | 0.02 | ±0.03 | ±0.05 | | 3 000 103 | 3 002 103 | 3 004 103 |
| 25 | 0.05 | ±0.04 | ±0.05 | | 3 000 253 | 3 002 253 | 3 004 253 |
| 50 | 0.1 | ±0.08 | ±0.1 | | 3 000 503 | 3 002 503 | 3 004 503 |
| 100 | 0.2 | ±0.2 | ±0.2 | | 3 000 903 | 3 002 903 | 3 004 903 |
| 5 | 0.02 | ±0.02 | ±0.02 | PTFE needle valve | 3 000 057 | 3 002 057 | 3 004 057 |
| 10 | 0.02 | ±0.03 | ±0.05 | | 3 000 107 | 3 002 107 | 3 004 107 |
| 25 | 0.05 | ±0.04 | ±0.05 | | 3 000 257 | 3 002 257 | 3 004 257 |
| 50 | 0.1 | ±0.08 | ±0.1 | | 3 000 507 | 3 002 507 | 3 004 507 |
| 100 | 0.2 | ±0.2 | ±0.2 | | 3 000 907 | 3 002 907 | 3 004 907 |

for brown graduation add „B“ behind the order number (not available for amber glass)

Class B - lateral stopcocks

- short line graduation
- DIN EN ISO 385
- error ranges are better than the DIN EN ISO 385 requirements
- made of borosilicate glass 3.3



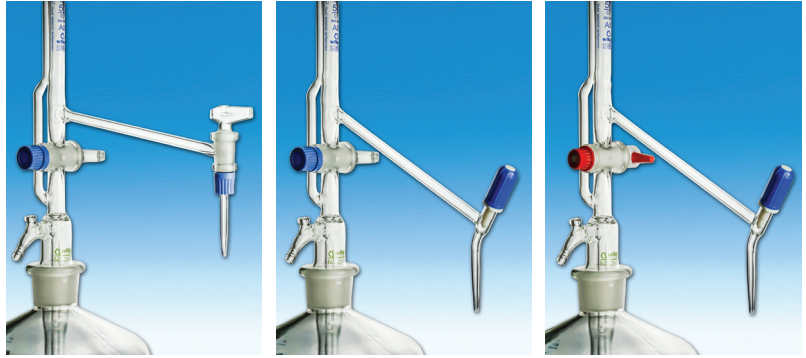
| Capacity ml | Division ml | Tolerance | | Plug | Order number | | |
|----------------|----------------|-------------|-----------|------------------------------|-----------------|---|---------------------------------|
| | | witeg ml | ISO ml | | blue graduation | blue graduation Schellbach blue line | amber glass white graduation |
| 5 | 0.02 | ±0.02 | ±0.02 | solid ST-glass | 3 000 054 | 3 002 054 | 3 004 054 |
| 10 | 0.02 | ±0.03 | ±0.05 | | 3 000 104 | 3 002 104 | 3 004 104 |
| 25 | 0.05 | ±0.04 | ±0.05 | | 3 000 254 | 3 002 254 | 3 004 254 |
| 50 | 0.1 | ±0.08 | ±0.1 | | 3 000 504 | 3 002 504 | 3 004 504 |
| 100 | 0.2 | ±0.2 | ±0.2 | | 3 000 904 | 3 002 904 | 3 004 904 |
| 5 | 0.02 | ±0.02 | ±0.02 | ST-PTFE | 3 000 055 | 3 002 055 | 3 004 055 |
| 10 | 0.02 | ±0.03 | ±0.05 | | 3 000 105 | 3 002 105 | 3 004 105 |
| 25 | 0.05 | ±0.04 | ±0.05 | | 3 000 255 | 3 002 255 | 3 004 255 |
| 50 | 0.1 | ±0.08 | ±0.1 | | 3 000 505 | 3 002 505 | 3 004 505 |
| 100 | 0.2 | ±0.2 | ±0.2 | | 3 000 905 | 3 002 905 | 3 004 905 |
| 5 | 0.02 | ±0.02 | ±0.02 | ST-glass two-way stopcock | 3 000 056 | 3 002 056 | 3 004 056 |
| 10 | 0.02 | ±0.03 | ±0.05 | | 3 000 106 | 3 002 106 | 3 004 106 |
| 25 | 0.05 | ±0.04 | ±0.05 | | 3 000 256 | 3 002 256 | 3 004 256 |
| 50 | 0.1 | ±0.08 | ±0.1 | | 3 000 506 | 3 002 506 | 3 004 506 |
| 100 | 0.2 | ±0.2 | ±0.2 | | 3 000 906 | 3 002 906 | 3 004 906 |

for brown graduation add „B“ behind the order number (not available for amber glass)

Automatic burettes Pellet

Class AS - with intermediate stopcock

- main point ring graduation
- DIN EN ISO 385
- DE-M marked according to the German calibration law
- lateral and intermediate stopcock
- made of borosilicate glass 3.3
- inclusive batch certificate
- 2L reservoir bottle

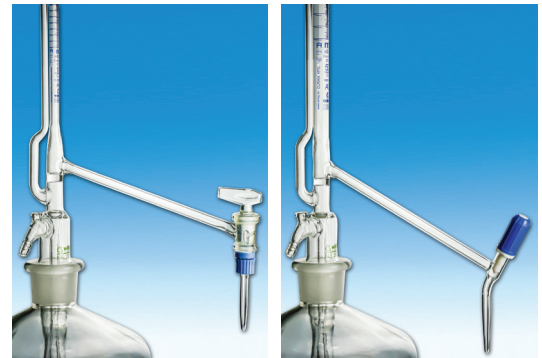


| Capacity ml | Division ml | Tolerance ml | Stopcocks | Order number | |
|----------------|----------------|-----------------|---|---|---------------------------------|
| | | | | blue graduation Schellbach blue line | amber glass white graduation |
| 10 | 0.02 | ±0.02 | intermediate: ST-glass plug lateral: solid ST-glass plug | 3 122 106 | 3 124 106 |
| 25 | 0.05 | ±0.03 | | 3 122 256 | 3 124 256 |
| 50 | 0.1 | ±0.05 | | 3 122 506 | 3 124 506 |
| 10 | 0.02 | ±0.02 | intermediate: ST-glass plug lateral: PTFE needle valve | 3 122 107 | 3 124 107 |
| 25 | 0.05 | ±0.03 | | 3 122 257 | 3 124 257 |
| 50 | 0.1 | ±0.05 | | 3 122 507 | 3 124 507 |
| 10 | 0.02 | ±0.02 | intermediate: ST-PTFE plug lateral: PTFE needle valve | 3 122 108 | 3 124 108 |
| 25 | 0.05 | ±0.03 | | 3 122 258 | 3 124 258 |
| 50 | 0.1 | ±0.05 | | 3 122 508 | 3 124 508 |

for brown graduation add „B“ behind the order number (not available for amber glass)

Class AS

- main point ring graduation
- without intermediate stopcock
- DIN EN ISO 385
- DE-M marked according to the German calibration law
- lateral stopcock
- made of borosilicate glass 3.3
- inclusive batch certificate
- 2L reservoir bottle



| Capacity ml | Division ml | Tolerance ml | Stopcock | Order number | |
|----------------|----------------|-----------------|------------------------------|---|---------------------------------|
| | | | | blue graduation Schellbach blue line | amber glass white graduation |
| 10 | 0.02 | ±0.02 | lateral: solid ST-glass plug | 3 122 104 | 3 124 104 |
| 25 | 0.05 | ±0.03 | | 3 122 254 | 3 124 254 |
| 50 | 0.1 | ±0.05 | | 3 122 504 | 3 124 504 |
| 10 | 0.02 | ±0.02 | lateral: PTFE needle valve | 3 122 105 | 3 124 105 |
| 25 | 0.05 | ±0.03 | | 3 122 255 | 3 124 255 |
| 50 | 0.1 | ±0.05 | | 3 122 505 | 3 124 505 |

for brown graduation add „B“ behind the order number (not available for amber glass)

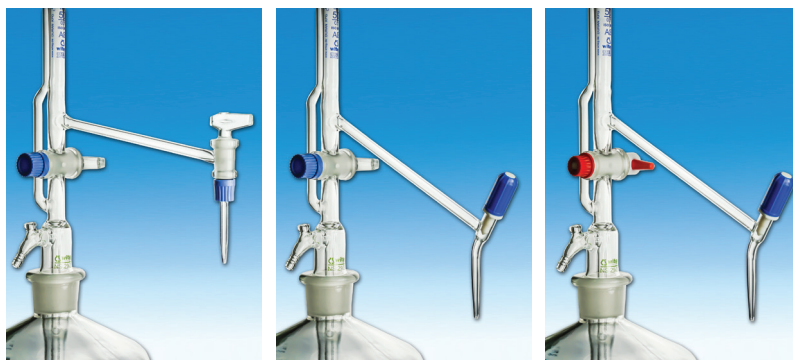


All automatic burettes Pellet are available with amber glass and white graduation.

Automatic burettes Pellet

Class B - with intermediate stopcock

- short line graduation
- DIN EN ISO 385
- error ranges are better than the DIN EN ISO 385 requirements
- lateral and intermediate stopcock
- made of borosilicate glass 3.3
- 2L reservoir bottle

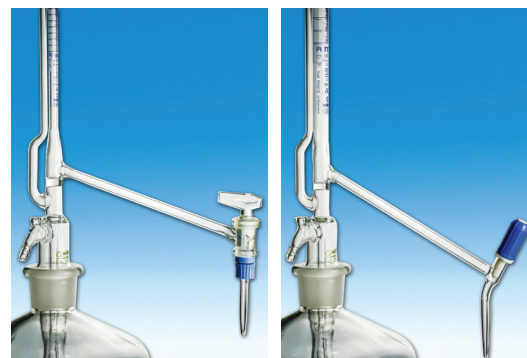


| Capacity ml | Division ml | Tolerance | | Stopcocks | Order number | |
|----------------|----------------|-------------|-----------|---|---|---------------------------------|
| | | witeg ml | ISO ml | | blue graduation Schellbach blue line | amber glass white graduation |
| 10 | 0.02 | ±0.03 | ±0.05 | intermediate: ST-glass plug lateral: solid ST-glass plug | 3 112 106 | 3 114 106 |
| 25 | 0.05 | ±0.03 | ±0.05 | | 3 112 256 | 3 114 256 |
| 50 | 0.1 | ±0.08 | ±0.1 | | 3 112 506 | 3 114 506 |
| 100 | 0.2 | ±0.2 | ±0.2 | | 3 112 906 | 3 114 906 |
| 10 | 0.02 | ±0.03 | ±0.05 | intermediate: ST-glass plug lateral: PTFE needle valve | 3 112 107 | 3 114 107 |
| 25 | 0.05 | ±0.03 | ±0.05 | | 3 112 257 | 3 114 257 |
| 50 | 0.1 | ±0.08 | ±0.1 | | 3 112 507 | 3 114 507 |
| 100 | 0.2 | ±0.2 | ±0.2 | | 3 112 907 | 3 114 907 |
| 10 | 0.02 | ±0.03 | ±0.05 | intermediate: ST-PTFE plug lateral: PTFE needle valve | 3 112 108 | 3 114 108 |
| 25 | 0.05 | ±0.03 | ±0.05 | | 3 112 258 | 3 114 258 |
| 50 | 0.1 | ±0.08 | ±0.1 | | 3 112 508 | 3 114 508 |
| 100 | 0.2 | ±0.2 | ±0.2 | | 3 112 908 | 3 114 908 |

for brown graduation add „B“ behind the order number (not available for amber glass)

Class B

- short line graduation
- without intermediate stopcock
- DIN EN ISO 385
- error ranges are better than the DIN EN ISO 385 requirements
- lateral stopcock
- made of borosilicate glass 3.3
- 2L reservoir bottle



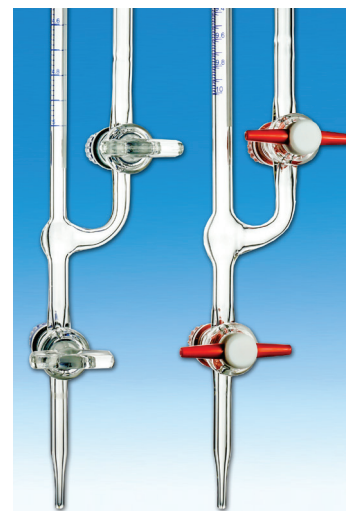
| Capacity ml | Division ml | Tolerance | | Stopcock | Order number | |
|----------------|----------------|-------------|-----------|------------------------------|---|---------------------------------|
| | | witeg ml | ISO ml | | blue graduation Schellbach blue line | amber glass white graduation |
| 10 | 0.02 | ±0.03 | ±0.05 | lateral: solid ST-glass plug | 3 102 104 | 3 104 104 |
| 25 | 0.05 | ±0.04 | ±0.05 | | 3 102 254 | 3 104 254 |
| 50 | 0.1 | ±0.08 | ±0.1 | | 3 102 504 | 3 104 504 |
| 100 | 0.2 | ±0.2 | ±0.2 | | 3 102 904 | 3 104 904 |
| 10 | 0.02 | ±0.03 | ±0.05 | lateral: PTFE needle valve | 3 102 105 | 3 104 105 |
| 25 | 0.05 | ±0.04 | ±0.05 | | 3 102 255 | 3 104 255 |
| 50 | 0.1 | ±0.08 | ±0.1 | | 3 102 505 | 3 104 505 |
| 100 | 0.2 | ±0.2 | ±0.2 | | 3 102 905 | 3 104 905 |

for brown graduation add „B“ behind the order number (not available for amber glass)

Micro burettes Bang

Class AS

- main point ring graduation
- blue graduation
- with Schellbach blue line
- DIN EN ISO 385
- DE-M marked according to the German calibration law
- inclusive batch certificate
- made of borosilicate glass 3.3



▪ two straight stopcocks

| Capacity | Division | Tolerance | Order number | |
|----------|----------|-----------|----------------|---------------|
| ml | ml | ml | ST-glass plugs | ST-PTFE plugs |
| 1 | 0.01 | ±0.006 | 3 372 012 | 3 372 013 |
| 2 | 0.01 | ±0.01 | 3 372 022 | 3 372 023 |
| 5 | 0.02 | ±0.01 | 3 372 052 | 3 372 053 |
| 10 | 0.02 | ±0.02 | 3 372 102 | 3 372 103 |

▪ one lateral stopcock, one straight stopcock

| Capacity | Division | Tolerance | Order number | | |
|----------|----------|-----------|----------------|---------------|--|
| ml | ml | ml | ST-glass plugs | ST-PTFE plugs | lateral PTFE needle valve straight ST-PTFE plug |
| 1 | 0.01 | ±0.006 | 3 383 012 | 3 383 013 | - |
| 2 | 0.01 | ±0.01 | 3 383 022 | - | 3 383 025 |
| 5 | 0.02 | ±0.01 | 3 383 052 | 3 383 053 | 3 383 055 |
| 10 | 0.02 | ±0.02 | 3 383 102 | 3 383 103 | 3 383 105 |



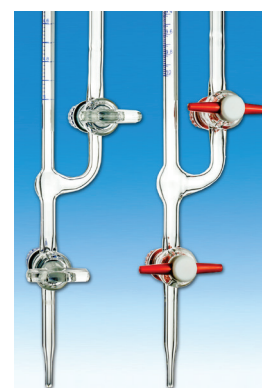
Class B

- short line graduation
- blue graduation
- with Schellbach blue line
- DIN EN ISO 385
- error ranges are better than the DIN EN ISO 385 requirements
- made of borosilicate glass 3.3



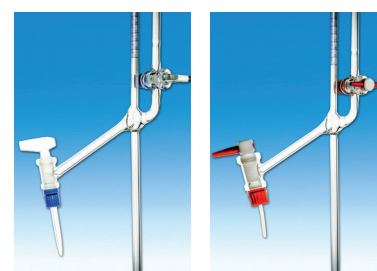
▪ two straight stopcocks

| Capacity | Division | Tolerance | | Order number | |
|----------|----------|-----------|-------|----------------|---------------|
| | | witeg | ISO | ST-glass plugs | ST-PTFE plugs |
| ml | ml | ml | ml | | |
| 1 | 0.01 | ±0.01 | ±0.01 | 3 352 012 | 3 352 013 |
| 2 | 0.01 | ±0.02 | ±0.02 | 3 352 022 | 3 352 023 |
| 5 | 0.02 | ±0.02 | ±0.02 | 3 352 052 | 3 352 053 |
| 10 | 0.02 | ±0.03 | ±0.05 | 3 352 102 | 3 352 103 |



▪ one lateral stopcock, one straight stopcock

| Capacity | Division | Tolerance | | Order number | |
|----------|----------|-----------|-------|----------------|---------------|
| | | witeg | ISO | ST-glass plugs | ST-PTFE plugs |
| ml | ml | ml | ml | | |
| 1 | 0.01 | ±0.01 | ±0.01 | 3 363 012 | 3 363 013 |
| 2 | 0.01 | ±0.02 | ±0.02 | 3 363 022 | 3 363 023 |
| 5 | 0.02 | ±0.02 | ±0.02 | 3 363 052 | 3 363 053 |
| 10 | 0.02 | ±0.03 | ±0.05 | 3 363 102 | 3 363 103 |



Flasks & automatic burette Schilling

Automatic burette Schilling

- Class B
- short line graduation
- DIN EN ISO 385
- error ranges are better than the DIN EN ISO 385 requirements
- with PE reservoir and stable base
- push button for precise titration
- automatic zero point
- made of borosilicate glass 3.3

| Capacity ml | Division ml | Tolerance | | blue graduation | Order number amber stained white graduation |
|----------------|----------------|-------------|-----------|-----------------|---|
| | | witeg ml | ISO ml | | |
| 5 | 0.02 | ±0.04 | ±0.04 | 3 312 005 | 3 312 005 BR |
| 10 | 0.05 | ±0.05 | ±0.05 | 3 312 010 | 3 312 010 BR |
| 15 | 0.1 | ±0.1 | ±0.1 | 3 312 015 | 3 312 015 BR |
| 25 | 0.1 | ±0.1 | ±0.1 | 3 312 025 | 3 312 025 BR |
| 50 | 0.1 | ±0.08 | ±0.1 | 3 312 050 | 3 312 050 BR |



Over-flow flask for water treatment - Class B

- cut and grounded exactly at the volume-mark
- borosilicate glass 3.3



| Capacity ml | suitable for instruments of | | | Order number |
|----------------|-----------------------------|-----|-----|--------------|
| | HACH | H&V | WTW | |
| 21.7 | X | | | 3 685 021 |
| 22.7 | | | X | 3 685 022 |
| 43.5 | | | X | 3 685 044 |
| 56.0 | X | X | | 3 685 056 |
| 94.0 | X | X | | 3 685 094 |
| 97.0 | | | X | 3 685 097 |
| 100.0 | X | X | X | 3 685 100 |
| 110.0 | X | X | X | 3 685 110 |
| 150.0 | X | X | X | 3 685 150 |
| 157.0 | X | X | | 3 685 157 |
| 164.0 | | | X | 3 685 164 |
| 200.0 | X | X | X | 3 685 200 |
| 244.0 | X | X | | 3 685 244 |
| 250.0 | | | X | 3 685 250 |
| 275.0 | X | X | X | 3 685 275 |
| 285.0 | X | X | X | 3 685 285 |
| 300.0 | X | X | X | 3 685 300 |
| 360.0 | X | X | | 3 685 360 |
| 365.0 | | | X | 3 685 365 |
| 428.0 | X | | X | 3 685 428 |
| 432.0 | | | X | 3 685 432 |
| 450.0 | X | X | X | 3 685 450 |
| 650.0 | X | X | X | 3 685 650 |
| 700.0 | X | X | X | 3 685 700 |
| 740.0 | X | X | X | 3 685 740 |



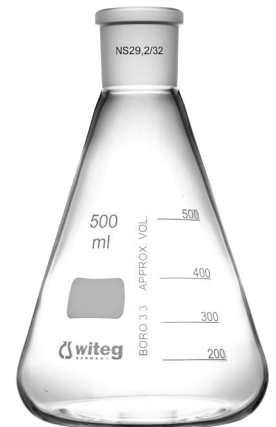
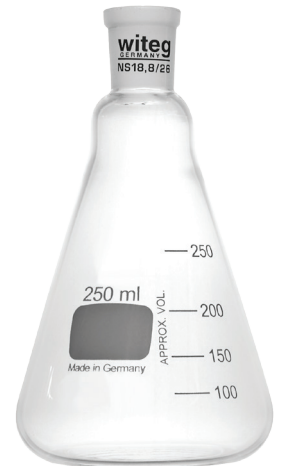
Erlenmeyer flask with socket (conical flask)

- made of borosilicate glass 3.3
- with graduation
- clear glass, amber stained or economy
- according to DIN 12387

delivered without stopper!

| Capacity | Socket | Outer Ø | Height | Order number | | |
|----------|--------|---------|-----------|--------------|---------------|---------------------|
| ml | ST | mm | mm | clear glass | amber stained | clear glass economy |
| 5* | 14/23 | 30 | 45 | 0 619 005 | 0 619 005 BR | 0 619 005 E |
| 10* | | 33 | 60 | 0 619 010 | 0 619 010 BR | 0 619 010 E |
| 25 | | 42 | 70 | 0 619 025 | 0 619 025 BR | 0 619 025 E |
| 50 | | 51 | 80 | 0 619 050 | 0 619 050 BR | 0 619 050 E |
| 100 | | 64 | 100 | 0 619 100 | 0 619 100 BR | 0 619 100 E |
| 25 | 19/26 | 42 | 70 | 0 620 025 | 0 620 025 BR | 0 620 025 E |
| 50 | | 51 | 80 | 0 620 050 | 0 620 050 BR | 0 620 050 E |
| 100 | | 64 | 100 | 0 620 100 | 0 620 100 BR | 0 620 100 E |
| 200* | | 79 | 130 | 0 620 200 | 0 620 200 BR | - |
| 250* | | 85 | 140 | 0 620 250 | 0 620 250 BR | 0 620 250 E |
| 50* | 24/29 | 51 | 80 | 0 621 050 | 0 621 050 BR | 0 621 050 E |
| 100 | | 64 | 100 | 0 621 100 | 0 621 100 BR | 0 621 100 E |
| 200* | | 79 | 130 | 0 621 200 | 0 621 200 BR | 0 621 200 E |
| 250* | | 85 | 140 | 0 621 250 | 0 621 250 BR | 0 621 250 E |
| 300* | | 87 | 150 | 0 621 300 | 0 621 300 BR | 0 621 300 E |
| 500* | 29/32 | 105 | 170 | 0 621 500 | 0 621 500 BR | 0 621 500 E |
| 1000* | | 131 | 220 | 0 621 001 | 0 621 001 BR | 0 621 001 E |
| 50 | | 51 | 80 | 0 622 050 | 0 622 050 BR | 0 622 050 E |
| 100 | | 64 | 100 | 0 622 100 | 0 622 100 BR | 0 622 100 E |
| 200* | | 79 | 130 | 0 622 200 | 0 622 200 BR | 0 622 200 E |
| 250 | 45/40 | 85 | 140 | 0 622 250 | 0 622 250 BR | 0 622 250 E |
| 300* | | 87 | 150 | 0 622 300 | 0 622 300 BR | 0 622 300 E |
| 500 | | 105 | 170 | 0 622 500 | 0 622 500 BR | 0 622 500 E |
| 1000 | | 131 | 220 | 0 622 001 | 0 622 001 BR | 0 622 001 E |
| 2000* | | 166 | 280 | 0 622 002 | - | - |
| 200* | 45/40 | 79 | 130 | 0 624 200 | 0 624 200 BR | - |
| 250 | | 85 | 140 | 0 624 250 | 0 624 250 BR | 0 624 250 E |
| 300* | | 87 | 150 | 0 624 300 | 0 624 300 BR | 0 624 300 E |
| 500 | | 105 | 170 | 0 624 500 | 0 624 500 BR | 0 624 500 E |
| 1000 | | 131 | 220 | 0 624 001 | 0 624 001 BR | 0 624 001 E |
| 2000* | | 166 | 280 | 0 624 002 | 0 624 002 BR | 0 624 002 E |
| 3000 | | 187 | 310 | 0 624 003 | 0 624 003 BR | - |
| 5000 | 220 | 365 | 0 624 005 | 0 624 005 BR | - | |

* special size in addition to DIN 12387



Stopper - hexagonal plate

- according to DIN 12254 / DIN 12252



| For socket | Order number | | |
|------------|--------------|--|--|
| ST | PE-stopper | Borosilicate 3.3 ST-hollow glass stopper | Borosilicate 3.3 ST-hollow glass stopper amber stained |
| 14/23 | 0 306 014 | 0 302 014 | 0 303 014 |
| 19/26 | 0 306 019 | 0 302 019 | 0 303 019 |
| 24/29 | 0 306 024 | 0 302 024 | 0 303 024 |
| 29/32 | 0 306 029 | 0 302 029 | 0 303 029 |
| 45/40 | 0 306 045 | 0 302 045 | 0 303 045 |



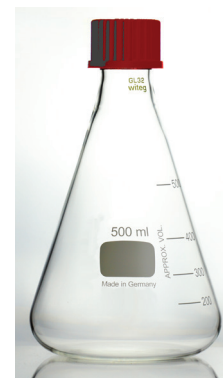
Erlenmeyer flasks

Erlenmeyer flask with screw cap

- made of borosilicate glass 3.3
- with graduation



| Capacity | Thread | Max. Ø | Height | Order number |
|----------|--------|--------|--------|--------------|
| ml | GL | mm | mm | |
| 25 | 18 | 42 | 70 | 5 507 001 |
| 50 | 25 | 51 | 85 | 5 507 002 |
| 100 | 25 | 64 | 105 | 5 507 003 |
| 250 | 32 | 85 | 140 | 5 507 004 |
| 500 | 32 | 105 | 175 | 5 507 005 |
| 1000 | 32 | 131 | 220 | 5 507 006 |
| 2000 | 45 | 166 | 280 | 5 507 007 |
| 3000 | 45 | 187 | 310 | 5 507 008 |
| 5000 | 45 | 220 | 365 | 5 507 009 |



Erlenmeyer flask with safety pouring ring

- made of borosilicate glass 3.3
- with graduation, pouring ring made of PP (up to 140° heat-resistant), changeable



| Capacity | Neck Ø | Max. Ø | Height | Order number |
|----------|--------|--------|--------|------------------------------|
| ml | mm | mm | mm | DURAN®-tubing DURAN® icon |
| 50 | 22 | 51 | 85 | 5 507 505 |
| 100 | 22 | 64 | 105 | 5 507 510 |
| 200 | 34 | 79 | 131 | 5 507 520 |
| 250 | 34 | 85 | 140 | 5 507 525 |
| 300 | 34 | 87 | 156 | 5 507 530 |
| 500 | 34 | 105 | 175 | 5 507 550 |

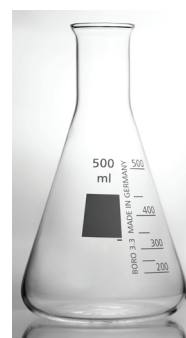


Erlenmeyer flask narrow neck with rim

- made of DURAN® tubing / borosilicate glass 3.3
- with graduation
- according to DIN 12387, ISO 1773



| Capacity | Neck Ø | Max. Ø | Height | Order number | | |
|----------|--------|--------|--------|------------------------------|--------------------------------|-----------------------------|
| | | | | DURAN®-tubing DURAN® logo | Borosilicate 3.3 witeg logo | Borosilicate 3.3 neutral |
| 25 | 22 | 42 | 70 | 5 506 025 | - | 5 506 025 S |
| 50 | 22 | 51 | 85 | 5 506 050 | 5 506 050 B | 5 506 050 S |
| 100 | 22 | 64 | 105 | 5 506 100 | 5 506 100 B | 5 506 100 S |
| 200 | 34 | 79 | 131 | 5 506 200 | - | 5 506 200 S |
| 250 | 34 | 85 | 140 | 5 506 250 | 5 506 250 B | 5 506 250 S |
| 300 | 34 | 87 | 156 | 5 506 300 | - | - |
| 500 | 34 | 105 | 175 | 5 506 500 | 5 506 500 B | 5 506 500 S |
| 1000 | 42 | 131 | 220 | 5 506 001 | 5 506 001 B | 5 506 001 S |
| 2000 | 50 | 166 | 280 | 5 506 002 | - | 5 506 002 S |
| 3000 | 50 | 187 | 310 | 5 506 003 | - | 5 506 003 S |
| 5000 | 48 | 220 | 365 | 5 506 005 | - | 5 506 005 S |

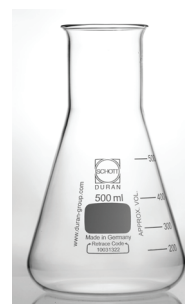


Erlenmeyer flask wide neck with rim

- made of DURAN® tubing / borosilicate glass 3.3
- with graduation
- according to DIN 12387, ISO 1773



| Capacity | Neck Ø | Max. Ø | Height | Order number | | |
|----------|--------|--------|--------|------------------------------|--------------------------------|-----------------------------|
| | | | | DURAN®-tubing DURAN® logo | Borosilicate 3.3 witeg logo | Borosilicate 3.3 neutral |
| 25 | 31 | 43 | 70 | 5 508 025 | - | 5 508 025 S |
| 50 | 34 | 51 | 85 | 5 508 050 | 5 508 050 B | 5 508 050 S |
| 100 | 34 | 64 | 105 | 5 508 100 | 5 508 100 B | 5 508 100 S |
| 200 | 50 | 79 | 131 | 5 508 200 | 5 508 200 B | 5 508 200 S |
| 250 | 50 | 85 | 140 | 5 508 250 | 5 508 250 B | 5 508 250 S |
| 300 | 50 | 87 | 156 | 5 508 300 | - | - |
| 500 | 50 | 105 | 175 | 5 508 500 | - | 5 508 500 S |
| 1000 | 50 | 131 | 220 | 5 508 001 | - | 5 508 001 S |
| 2000 | 70 | 153 | 275 | 5 508 002 | - | 5 508 002 S |



Bottles

Laboratory bottles - round - screw cap and pouring ring (PP) - graduated

- made of DURAN® tubing / borosilicate glass 3.3

| Capacity ml | Thread GL | Diameter mm | Height mm | Order number | | |
|----------------|--------------|----------------|--------------|--------------|-------------|-------------|
| | | | | DURAN® | witeg logo* | neutral |
| 25 | 25 | 36 | 74 | 5 526 025 | - | - |
| 50 | 32 | 46 | 91 | 5 526 050 | 5 526 050 B | 5 526 050 S |
| 100 | 45 | 56 | 105 | 5 526 100 | 5 526 100 B | 5 526 100 S |
| 250 | 45 | 70 | 143 | 5 526 250 | 5 526 250 B | 5 526 250 S |
| 500 | 45 | 86 | 181 | 5 526 500 | 5 526 500 B | 5 526 500 S |
| 1000 | 45 | 101 | 230 | 5 526 001 | 5 526 001 B | 5 526 001 S |
| 2000 | 45 | 136 | 265 | 5 526 002 | 5 526 002 B | 5 526 002 S |
| 5000 | 45 | 182 | 335 | 5 526 005 | 5 526 005 B | 5 526 005 S |
| 10000 | 45 | 227 | 415 | 5 526 010 | 5 526 010 B | 5 526 010 S |
| 15000 | 45 | 268 | 450 | 5 526 015 | - | - |
| 20000 | 45 | 288 | 510 | 5 526 020 | 5 526 020 B | 5 526 020 S |

* with I.D. code



Laboratory bottles - round - color coded - screw cap and pouring ring (PP) - graduated

- made of borosilicate glass (witeg logo)
- with I.D. code

| Capacity ml | Thread GL | Diameter mm | Height mm | Order number | | | |
|----------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|
| | | | | blue | yellow | green | red |
| 100 | 45 | 56 | 105 | 5 526 100 BL | 5 526 100 GE | 5 526 100 GR | 5 526 100 RO |
| 250 | 45 | 70 | 143 | 5 526 250 BL | 5 526 250 GE | 5 526 250 GR | 5 526 250 RO |
| 500 | 45 | 86 | 181 | 5 526 500 BL | 5 526 500 GE | 5 526 500 GR | 5 526 500 RO |
| 1000 | 45 | 101 | 230 | 5 526 001 BL | 5 526 001 GE | 5 526 001 GR | 5 526 001 RO |
| 2000 | 45 | 136 | 265 | 5 526 002 BL | 5 526 002 GE | 5 526 002 GR | 5 526 002 RO |



Laboratory bottles - round - screw thread - graduated

- made of DURAN® tubing / borosilicate glass 3.3
- clear glass or amber stained
- suitable screw caps: see next page

| Capacity ml | Thread GL | Diameter mm | Height mm | Order number | | | | |
|----------------|--------------|----------------|--------------|--------------|---------------|-------------|---------------|-------------|
| | | | | DURAN® | | witeg logo* | | |
| | | | | clear glass | amber stained | clear glass | amber stained | |
| 25 | 25 | 36 | 70 | 5 527 025 | 5 528 025 | - | - | |
| 50 | 32 | 46 | 87 | 5 527 050 | 5 528 050 | 5 527 050 B | 5 528 050 B | |
| 100 | 45 | 56 | 100 | 5 527 100 | 5 528 100 | 5 527 100 B | 5 528 100 B | |
| 250 | | 70 | 138 | 5 527 250 | 5 528 250 | 5 527 250 B | 5 528 250 B | |
| 500 | | 86 | 176 | 5 527 500 | 5 528 500 | 5 527 500 B | 5 528 500 B | |
| 1000 | | 101 | 225 | 5 527 001 | 5 528 001 | 5 527 001 B | 5 528 001 B | |
| 2000 | | 136 | 260 | 5 527 002 | 5 528 002 | 5 527 002 B | 5 528 002 B | |
| 5000 | | 182 | 330 | 5 527 005 | 5 528 005 | 5 527 005 B | 5 528 005 B | |
| 10000 | | 227 | 410 | 5 527 010 | 5 528 010 | 5 527 010 B | 5 528 010 B | |
| 15000 | | 268 | 445 | 5 527 015 | 5 528 015 | - | - | |
| 20000 | | 288 | 505 | 5 527 020 | 5 528 020 | 5 527 020 B | 5 528 020 B | |
| 500 | | 80 | 101 | 152 | 5 527 600 | 5 528 600 | 5 527 600 B | 5 528 600 B |
| 1000 | | | 101 | 222 | 5 527 601 | 5 528 601 | 5 527 601 B | 5 528 601 B |
| 2000 | | | 136 | 252 | 5 527 602 | 5 528 602 | 5 527 602 B | 5 528 602 B |
| 5000 | | | 182 | 314 | 5 527 605 | 5 528 605 | 5 527 605 B | 5 528 605 B |
| 10000 | | | 227 | 389 | 5 527 610 | 5 528 610 | 5 527 610 B | 5 528 610 B |
| 15000 | | | 268 | 465 | 5 527 615 | 5 528 615 | - | - |
| 20000 | 228 | | 484 | 5 527 620 | 5 528 620 | 5 527 620 B | 5 528 620 B | |
| 1000 | 100 | | 101 | 225 | 5 527 701 | 5 528 701 | 5 527 701 B | 5 528 701 B |
| 2000 | | | 136 | 255 | 5 527 702 | 5 528 702 | 5 527 702 B | 5 528 702 B |
| 5000 | | | 182 | 317 | 5 527 705 | 5 528 705 | 5 527 705 B | 5 528 705 B |
| 10000 | | 227 | 393 | 5 527 710 | 5 528 710 | 5 527 710 B | 5 528 710 B | |
| 15000 | | 268 | 465 | 5 527 715 | 5 528 715 | - | - | |
| 20000 | | 228 | 488 | 5 527 720 | 5 528 720 | 5 527 720 B | 5 528 720 B | |

* with I.D. code



Reagent bottles - round - screw cap - made of soda glass

- narrow or wide neck
- with screw cap (PP)
- clear glass or amber glass

| Capacity ml | Order number | | | |
|----------------|--------------|-------------|-------------|-------------|
| | narrow neck | | wide neck | |
| | clear glass | amber glass | clear glass | amber glass |
| 25 | - | - | 5 894 025 | 5 895 025 |
| 30 | 5 888 030 | 5 889 030 | 5 894 030 | 5 895 030 |
| 50 | 5 888 050 | 5 889 050 | 5 894 050 | 5 895 050 |
| 75 | - | - | - | 5 895 075 |
| 100 | 5 888 100 | 5 889 100 | 5 894 100 | 5 895 100 |
| 125 | - | - | 5 894 125 | 5 895 125 |
| 150 | - | 5 889 150 | 5 894 150 | 5 895 150 |
| 200 | - | 5 889 200 | 5 894 200 | 5 895 200 |
| 250 | 5 888 250 | 5 889 250 | 5 894 250 | 5 895 250 |
| 300 | - | - | 5 894 300 | 5 895 300 |
| 500 | 5 888 500 | 5 889 500 | 5 894 500 | 5 895 500 |
| 1000 | 5 888 001 | 5 889 001 | 5 894 001 | 5 895 001 |
| 2000 | - | - | - | 5 895 002 |



Laboratory bottles - square - screw thread - graduated

- with screw cap and pouring ring (PP) (only clear glass version)
- clear glass or amber stained
- made of DURAN® tubing

| Capacity ml | Thread GL | Diameter mm | Height mm | Order number | |
|----------------|--------------|----------------|--------------|--------------|----------------|
| | | | | clear glass | amber stained* |
| 100 | 32 | 50 | 109 | 5 523 311 | - |
| 100 | 45 | 50 | 109 | - | 5 523 331 |
| 250 | 45 | 64 | 143 | 5 523 312 | 5 523 332 |
| 500 | 45 | 78 | 181 | 5 523 313 | 5 523 333 |
| 1000 | 45 | 94 | 222 | 5 523 314 | 5 523 334 |

* delivered without cap and pouring ring



Screw caps for bottles with thread

- made of PBTP or PP
- top closed or with bore

| Thread GL | Bore | Material | Color | Seal | Order number |
|--------------|-------|----------|---------|------------|--------------|
| 25 | - | PBTP | red | PTFE liner | 0 175 025* |
| 32 | - | PBTP | red | PTFE liner | 0 175 032* |
| 45 | - | PBTP | red | PTFE liner | 0 175 045* |
| 50 | - | PP | neutral | PTFE liner | 0 175 050** |
| 80 | - | PP | neutral | PTFE liner | 0 175 080** |
| 100 | - | PP | neutral | PTFE liner | 0 175 099** |
| 25 | - | PP | blue | - | 0 175 125** |
| 32 | - | PP | blue | - | 0 175 132** |
| 45 | - | PP | blue | - | 0 175 145** |
| 45 | - | PP | yellow | - | 5 526 066** |
| 45 | - | PP | green | - | 5 526 077** |
| 45 | - | PP | red | - | 5 526 088** |
| 45 | - | PP | neutral | - | 5 526 099** |
| GLS 80 | - | PP | blue | lip seal | 5 527 680** |
| GLS 100 | - | PP | blue | lip seal | 5 527 690** |
| 25 | Ø15mm | PBTP | red | - | 0 176 025* |
| 32 | Ø20mm | PBTP | red | - | 0 176 032* |
| 45 | Ø34mm | PBTP | red | - | 0 176 045* |
| 50 | Ø38mm | PP | neutral | - | 0 176 050** |
| 80 | Ø68mm | PP | neutral | - | 0 176 080** |
| 100 | Ø85mm | PP | neutral | - | 0 176 100** |

*autoclavable up to 180°C

** autoclavable up to 140°C



Pouring rings for bottles

- made of PP or ETFE
- different colors
- autoclavable



| Thread GL | Color | Material | Order number |
|--------------|--------|----------|--------------|
| 32 | blue | PP | 0 175 201 |
| 45 | blue | PP | 0 175 202 |
| 45 | yellow | PP | 5 526 166 |
| 45 | green | PP | 5 526 177 |
| 45 | red | PP | 5 526 188 |
| 45 | white | PP | 5 526 199 |
| 32 | red | ETFE | 0 175 301 |
| 45 | red | ETFE | 0 175 302 |

Bottles

Reagent bottles - round - stopper - made of soda glass

- conical shoulder
- narrow or wide neck
- with glass or PE-stopper
- clear glass or amber glass

| Capacity ml | Socket ST | Neck | Order number | | | |
|----------------|--------------|--------|---------------|---------------|-------------|-------------|
| | | | Glass stopper | | PE-stopper | |
| | | | clear glass | amber stained | clear glass | amber glass |
| 50 | 14/15 | narrow | 5 868 050 | 5 869 050 | 5 870 050 | 5 871 050 |
| 100 | 14/23 | narrow | 5 868 100 | 5 869 100 | 5 870 100 | 5 871 100 |
| 250 | 19/26 | narrow | 5 868 250 | 5 869 250 | 5 870 250 | 5 871 250 |
| 500 | 24/29 | narrow | 5 868 500 | 5 869 500 | 5 870 500 | 5 871 500 |
| 1000 | 29/32 | narrow | 5 868 001 | 5 869 001 | 5 870 001 | 5 871 001 |
| 2000 | 29/32 | narrow | 5 868 002 | 5 869 002 | 5 870 002 | 5 871 002 |
| 50 | 24/20 | wide | 5 873 050 | 5 874 050 | 5 875 050 | 5 876 050 |
| 100 | 29/22 | wide | 5 873 100 | 5 874 100 | 5 875 100 | 5 876 100 |
| 250 | 34/24 | wide | 5 873 250 | 5 874 250 | 5 875 250 | 5 876 250 |
| 500 | 45/27 | wide | 5 873 500 | 5 874 500 | 5 875 500 | 5 876 500 |
| 1000 | 60/64 | wide | 5 873 001 | 5 874 001 | 5 875 001 | 5 876 001 |



Bottles - square - screw thread - narrow neck - made of soda glass

- with or without PE-coating **NEW**
- clear glass or amber glass
- suitable tamper-proof caps: 5 897 032, 5 897 045

| Capacity ml | Thread GL | Diameter mm | Height mm | Order number | | |
|----------------|--------------|----------------|--------------|--------------|----------------------------|--------------|
| | | | | clear glass | clear glass PE-coating* | amber glass* |
| 100 | 32 | 49 | 119 | 5 896 100 | 5 897 400 | 5 897 100 |
| 250 | 32 | 64 | 155 | 5 896 250 | 5 897 450 | 5 897 250 |
| 500 | 32 | 77 | 186 | 5 896 500 | 5 897 600 | 5 897 500 |
| 1000 | 45 | 97 | 223 | 5 896 001 | 5 897 701 | 5 897 001 |

* with pouring ring

Bottles - square - screw thread - wide neck - made of soda glass

- with or without PE-coating
- clear glass or amber glass
- suitable tamper-evident caps: 5 899 032, 5 899 045, 5 899 054, 5 899 060

| Capacity ml | Thread GL | Diameter mm | Height mm | Order number | | |
|----------------|--------------|----------------|--------------|--------------|---------------------------|-------------|
| | | | | clear glass | clear glass PE-coating | amber glass |
| 100 | 32 | 49 | 111 | 5 898 100 | 5 899 110 | 5 899 100 |
| 250 | 45 | 64 | 146 | 5 898 250 | 5 899 260 | 5 899 250 |
| 500 | 54 | 76 | 173 | 5 898 500 | 5 899 510 | 5 899 500 |
| 1000 | 60 | 98 | 213 | 5 898 001 | 5 899 011 | 5 899 001 |



Tamper-evident caps for square bottles

- made of PP
- blue

| Thread GL | Suitable for | Order number | |
|--------------|---|--------------|-----------|
| | | narrow neck | wide neck |
| 32 | narrow neck: 100 ml, 250 ml, 500 ml wide neck: 100ml | 5 897 032 | 5 899 032 |
| 45 | narrow neck: 1000ml wide neck: 250ml | 5 897 045 | 5 899 045 |
| 54 | wide neck: 500ml | - | 5 899 054 |
| 60 | wide neck: 1000ml | - | 5 899 060 |



B.O.D. bottles - Karlsruher bottles

- with funnel neck
- made of borosilicate glass

| Capacity | Socket | Order number |
|----------|--------|--------------|
| ml | ST | |
| 50 | 14/23 | 2 436 050 |
| 100 | 14/23 | 2 436 100 |
| 300 | 19/26 | 2 436 300 |

Suitable ST hollow glass stopper with extra long stem made of borosilicate glass

| Socket | Order number |
|--------|--------------|
| ST | |
| 14/23 | 2 436 000 |
| 19/26 | 2 436 001 |



Winkler bottles for B.O.D. determination

- accurately adjusted
- with glass stopper and label
- made of clear glass

| Capacity | Diameter | Height | Order number |
|-----------|----------|--------|--------------|
| ml | mm | mm | |
| 100 - 150 | 53 | 103 | 2 911 100 |
| 250 - 300 | 70 | 130 | 2 911 250 |
| 500 - 600 | 87 | 170 | 2 911 500 |



Culture bottles (Meplat bottles)

- with screw thread and screw cap
- made of soda glass
- clear glass or amber glass

| Capacity | Order number | |
|----------|--------------|-------------|
| | clear glass | amber glass |
| 50 | 5 890 050 | 5 891 050 |
| 100 | 5 890 100 | 5 891 100 |
| 125 | 5 890 125 | 5 891 125 |
| 150 | - | 5 891 150 |
| 200 | - | 5 891 200 |
| 250 | 5 890 250 | 5 891 250 |
| 500 | - | 5 891 500 |
| 1000 | - | 5 891 001 |

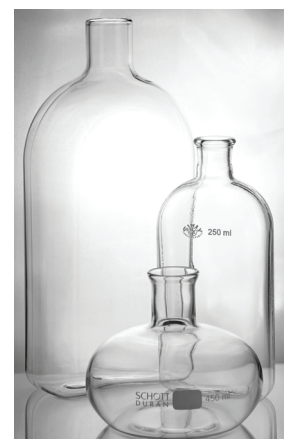


Culture flasks - different types

- made of borosilicate glass 3.3

| Type | Capacity | Outer | Height | Neck Ø | Order number |
|-------------------------------|----------|-------|--------|--------|--------------|
| | ml | mm | mm | mm | |
| Fernbach, bulgy shape | 450 | 117 | 100 | | 5 576 000 |
| Roux, centric | 1200 | 260 | 56 | 32 | 5 580 000 |
| Roux, with screw cap GL 45 | 1200 | 260 | 56 | | 5 581 800 |
| Roux, conical neck, eccentric | 1200 | | | | 5 594 001 |

NEW

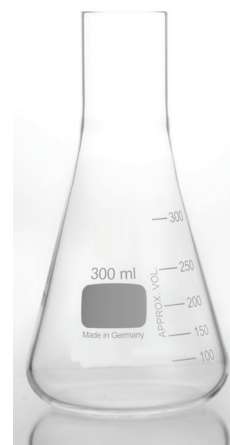


Flasks & bottles

Culture flasks (BIOGEN)

- Erlenmeyer shaped
- straight neck for metal caps, Ø 38mm
- made of borosilicate glass 3.3

| Capacity | Flask Ø | Height | Order number |
|----------|---------|--------|--------------|
| ml | mm | mm | |
| 50 | 51 | 85 | 5 560 050 |
| 100 | 64 | 112 | 5 560 100 |
| 200 | 79 | 136 | 5 560 200 |
| 250 | 85 | 145 | 5 560 250 |
| 300 | 87 | 161 | 5 560 300 |
| 500 | 105 | 183 | 5 560 500 |
| 1000 | 131 | 232 | 5 560 001 |
| 2000 | 166 | 305 | 5 560 002 |
| 3000 | 187 | 310 | 5 560 003 |
| 5000 | 220 | 365 | 5 560 005 |



Culture bottles (BIOGEN)

- straight neck for metal caps, Ø 38mm
- made from DURAN® tubing



| Capacity | Flask Ø | Height | Order number |
|----------|---------|--------|--------------|
| ml | mm | mm | |
| 100 | 50 | 125 | 5 562 100 |
| 300 | 71 | 170 | 5 562 300 |
| 500 | 83 | 208 | 5 562 500 |
| 1000 | 105 | 240 | 5 562 001 |



Culture flasks (Fernbach)

- Fernbach type (regular or quad battled)
- straight neck for metal caps, Ø 38mm
- made of borosilicate glass 3.3

| Capacity | Flask Ø | Height | Type | Order number |
|----------|---------|--------|--------------|--------------|
| ml | mm | mm | | |
| 1800 | 200 | 155 | regular | 5 568 050 |
| 1800 | 200 | 155 | quad battled | 5 568 100 |



Caps and stopper for culture flasks with neck Ø 38mm

- for neck Ø 38mm
- metal caps made of stainless steel or aluminium
- cap stopper made of plated anodised coloured aluminium with internal spring in nickel-chromed steel

| Type | Material | Color | for neck Ø | Order number |
|-------------|--|--------|------------|--------------|
| | | | mm | |
| Metal cap | stainless steel | grey | 38 | 5 570 001 |
| | aluminium | grey | 38 | 5 570 002 |
| Cap stopper | plated anodised aluminium with internal spring | silver | 37 - 39 | 5 570 011 |
| | | blue | 37 - 39 | 5 570 012 |
| | | red | 37 - 39 | 5 570 013 |



Beaker low form with spout

- made of DURAN® tubing, borosilicate glass 3.3
- according to DIN 12331, ISO 3819
- with graduation (5 ml and 10 ml only at maximal capacity)

| Capacity | Outer Ø | Height | Order number | | |
|----------|---------|--------|-----------------------|--------------------------------|-----------------------------|
| ml | mm | mm | DURAN® DURAN® logo | Borosilicate 3.3 witeg logo | Borosilicate 3.3 neutral |
| 5 | 22 | 30 | 5 500 005 | 5 500 005 B | 5 500 005 S |
| 10 | 26 | 35 | 5 500 010 | 5 500 010 B | 5 500 010 S |
| 25 | 32 | 48 | 5 500 025 | 5 500 025 B | 5 500 025 S |
| 50 | 39 | 55 | 5 500 050 | 5 500 050 B | 5 500 050 S |
| 100 | 51 | 71 | 5 500 100 | 5 500 100 B | 5 500 100 S |
| 150 | 55 | 81 | 5 500 150 | 5 500 150 B | 5 500 150 S |
| 250 | 69 | 95 | 5 500 250 | 5 500 250 B | 5 500 250 S |
| 400 | 82 | 100 | 5 500 400 | 5 500 400 B | 5 500 400 S |
| 600 | 92 | 115 | 5 500 600 | 5 500 600 B | 5 500 600 S |
| 800 | 98 | 136 | 5 500 800 | - | 5 500 800 S |
| 1000 | 106 | 145 | 5 500 001 | - | 5 500 001 S |
| 2000 | 132 | 185 | 5 500 002 | - | 5 500 002 S |
| 3000 | 153 | 210 | 5 500 003 | - | 5 500 003 S |
| 5000 | 170 | 270 | 5 500 005 | - | 5 500 005 S |
| 10000 | 217 | 350 | 5 500 110 | - | 5 500 110 S |

Set of beakers low form with spout

| Content | Order number |
|---|--------------|
| Midi: 2x 50 ml, 2x 100 ml, 2x 150 ml, 4x 250 ml | 5 500 525 |
| Maxi: 2x 400 ml, 4x 600 ml, 4x 1000 ml | 5 500 599 |

Beaker tall form with spout

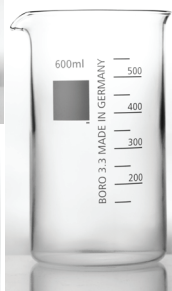
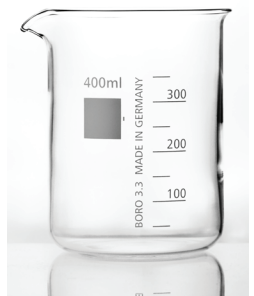
- made of DURAN® tubing, borosilicate glass 3.3
- according to DIN 12331, ISO 3819
- with graduation

| Capacity | Outer Ø | Height | Order number | | |
|----------|---------|--------|-----------------------|--------------------------------|-----------------------------|
| ml | mm | mm | DURAN® DURAN® logo | Borosilicate 3.3 witeg logo | Borosilicate 3.3 neutral |
| 50 | 38 | 66 | 5 502 050 | 5 502 050 B | 5 502 050 S |
| 100 | 48 | 80 | 5 502 100 | 5 502 100 B | 5 502 100 S |
| 150 | 53 | 96 | 5 502 150 | 5 502 150 B | 5 502 150 S |
| 250 | 61 | 117 | 5 502 250 | 5 502 250 B | 5 502 250 S |
| 400 | 70 | 130 | 5 502 400 | - | 5 502 400 S |
| 600 | 82 | 143 | 5 502 600 | - | 5 502 600 S |
| 800 | 89 | 171 | 5 502 800 | - | 5 502 800 S |
| 1000 | 95 | 185 | 5 502 001 | - | 5 502 001 S |
| 2000 | 118 | 236 | 5 502 002 | - | 5 502 002 S |
| 3000 | 135 | 280 | 5 502 003 | - | 5 502 003 S |

Beaker tall form

- made of DURAN® tubing
- according to DIN 12331, ISO 3819
- with graduation

| Capacity | Outer Ø | Height | Order number |
|----------|---------|--------|-----------------------|
| ml | mm | mm | DURAN® DURAN® logo |
| 50 | 38 | 66 | 5 504 050 |
| 100 | 47 | 80 | 5 504 100 |
| 150 | 53 | 96 | 5 504 150 |
| 250 | 61 | 117 | 5 504 250 |
| 400 | 70 | 130 | 5 504 400 |
| 600 | 82 | 143 | 5 504 600 |
| 800 | 89 | 171 | 5 504 800 |
| 1000 | 95 | 185 | 5 504 001 |



Staining jars

Staining jar complete

- with glass box, cover, slide frame and wire holder
- for 10 slides 76 x 26 mm
- made from soda glass

| Description | Order number |
|---------------------------|------------------|
| Complete | 4 640 000 |
| Spare tray (slide frame) | 4 640 001 |
| Spare wire holder | 4 640 002 |
| Spare glass box and cover | 4 640 003 |



Staining jar acc. to Hellendahl

- with glass box and cover
- standard and with enlargement
- for 16 slides 76 x 26 mm

| Description | Order number | |
|------------------|--------------|------------------|
| | Soda glass | Borosilicate 5.1 |
| Standard | 4 631 001 | - |
| With enlargement | 4 630 000 | 4 630 000 B |



Staining jar acc. to Coplin

- with glass box and cover (glass or PP)
- for 10 slides 76 x 26 mm
- very tight, recommended for mailing
- made from soda glass

| Description | Dimension | Order number |
|----------------------------|-------------|--------------|
| Standard with glass cover | 115 x 68 mm | 4 650 000 |
| Standard with PP screw cap | 113 x 68 mm | 4 651 000 |
| Low form with PP screw cap | 98 x 68 mm | 4 652 000 |



NEW

Staining jar acc. to Schiefferdecker

- with glass box and cover
- for 10 slides 76 x 26 mm
- made from soda glass

| Description | Order number |
|-------------|--------------|
| Complete | 4 660 000 |

| Description | Order number |
|-------------------|--------------|
| Screw cap PP 55mm | 4 652 100 |



Petri dish

- made of soda glass or heat-resistant borosilicate glass 3.3
- for highest requirements, free from bubbles and imperfections
- bottom and lid (inside / outside) absolutely plane

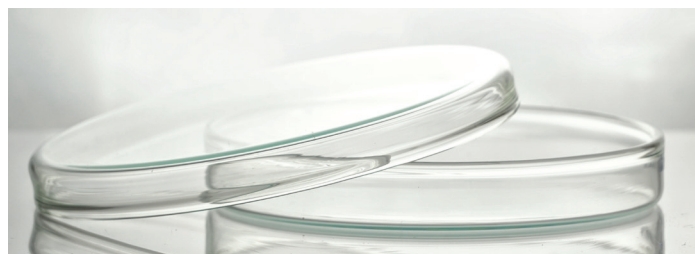
| Height mm | Outer Ø mm | Order number | | Order number | |
|--------------|---------------|--------------|------------|--------------|------------------|
| | | Pack | Soda glass | Pack | Borosilicate 3.3 |
| 12 | 40 | | 5 830 001 | | - |
| 12 | 50 | 18 | 5 830 012 | | - |
| 15 | 60 | 18 | 5 830 002 | | - |
| 15 | 80 | 18 | 5 830 003 | 24 | 5 830 003 B |
| 15 | 100 | 18 | 5 830 004 | 36 | 5 830 004 B |
| 20 | 100 | 18 | 5 830 005 | 36 | 5 830 005 B |
| 20 | 120 | 18 | 5 830 006 | | - |
| 25 | 150 | 18 | 5 830 007 | 36 | 5 830 007 B |
| 30 | 180 | 9 | 5 830 008 | | - |
| 30 | 200 | 10 | 5 830 009 | | - |
| 50 | 200 | 10 | 5 830 010 | | - |

NEW

Petri dish bacteriological

- made of clear PS
- packed in PE bags
- machine sterile or gamma radiated

| Outer Ø mm | Machine sterile | Gamma radiation | with vents | Quantity in bag | Order number |
|---------------|--------------------|--------------------|---------------|--------------------|--------------|
| 55 | X | | | 15 | 5 488 001 |
| 55 | X | | X | 15 | 5 488 002 |
| 55 | | X | | 15 | 5 488 003 |
| 55 | | X | X | 15 | 5 488 004 |
| 90 | X | | | 20 | 5 488 011 |
| 90 | X | | X | 33 | 5 488 012 |
| 90 | | X | | 20 | 5 488 013 |
| 90 | | X | X | 33 | 5 488 014 |
| 100 | X | | | 11 | 5 488 031 |
| 100 | | X | | 11 | 5 488 032 |



Weighing accessories

Weighing bottle tall form

- made of borosilicate glass 3.3
- ST cover with knob



| Capacity | Outer Ø | Height | Order number |
|----------|---------|--------|--------------|
| ml | mm | mm | |
| 10 | 25 | 40 | 2 870 005 |
| 15 | 30 | 40 | 2 870 006 |
| 20 | 30 | 50 | 2 870 007 |
| 30 | 35 | 50 | 2 870 008 |
| 40 | 40 | 50 | 2 870 009 |
| 45 | 40 | 60 | 2 870 010 |
| 45 | 40 | 65 | 2 870 011 |
| 45 | 35 | 70 | 2 870 012 |
| 70 | 40 | 80 | 2 870 013 |
| 120 | 50 | 80 | 2 870 014 |

Weighing bottle low form

- made of borosilicate glass 3.3
- ST cover with knob



| Capacity | Outer Ø | Height | Order number |
|----------|---------|--------|--------------|
| ml | mm | mm | |
| 6 | 25 | 25 | 2 872 001 |
| 7 | 30 | 30 | 2 872 003 |
| 10 | 35 | 30 | 2 872 004 |
| 15 | 40 | 30 | 2 872 002 |
| 30 | 50 | 30 | 2 872 005 |
| 45 | 60 | 30 | 2 872 006 |
| 80 | 80 | 30 | 2 872 008 |
| 35 | 40 | 40 | 2 872 009 |

Weighing bottle

- made of PP
- autoclavable, re-usable
- airtight

| Capacity | Outer Ø | Height | Tare | Order number |
|----------|---------|--------|------|--------------|
| ml | mm | mm | g | |
| 23 | 30 | 48 | 8 | 7 064 001 |
| 20 | 40 | 29 | 8 | 7 064 002 |
| 60 | 40 | 69 | 14 | 7 064 003 |
| 30 | 49 | 29 | 10 | 7 064 004 |
| 50 | 59 | 34 | 18 | 7 064 005 |
| 190 | 59 | 88 | 28 | 7 064 006 |
| 360 | 70 | 118 | 40 | 7 064 007 |



Weighing funnel

- made of borosilicate glass 3.3
- for weighing of chemicals and powder



| Capacity | Outer Ø | Length | Order number |
|----------|---------|--------|--------------|
| ml | mm | mm | |
| 1 | 12 | 35 | 2 880 000 |
| 1,5 | 22 | 45 | 2 880 015 |
| 3 | 22 | 65 | 2 880 001 |
| 6 | 28 | 70 | 2 880 002 |
| 10 | 32 | 80 | 2 880 003 |
| 30 | 40 | 110 | 2 880 004 |
| 60 | 50 | 135 | 2 880 005 |
| 170 | 65 | 200 | 2 880 006 |



Glass scoop

- round with ground edges
- made of borosilicate glass 3.3



| Length | Order number |
|--------|--------------|
| mm | |
| 60 | 2 880 100 |
| 82 | 2 880 101 |
| 95 | 2 880 102 |
| 137 | 2 880 103 |



Plane weighing glass

- acc. to Heidbrink



Order number

2 873 902



Tubes

Test tubes FIOLAX

- made of FIOLAX borosilicate glass 3.3
- with rim
- round bottom



pack = 100 pcs.

| Length | Outer Ø | Order number |
|--------|---------|--------------|
| mm | mm | pack |
| 70 | 8 | 4 902 001 |
| 100 | 10 | 4 902 002 |
| 100 | 12 | 4 902 003 |
| 100 | 16 | 4 902 004 |
| 130 | 14 | 4 902 005 |
| 160 | 16 | 4 902 006 |
| 180 | 18 | 4 902 007 |
| 180 | 20 | 4 902 008 |
| 200 | 25 | 4 902 009 |
| 200 | 30 | 4 902 010 |



Disposable culture tubes

- made of AR-glass
- plain top
- round bottom



| Length | Outer Ø | Pack | Order number |
|--------|---------|------|--------------|
| mm | mm | Pcs. | pack |
| 70 | 10 | 250 | 4 925 001 |
| 75 | 12 | 250 | 4 925 002 |
| 100 | 12 | 250 | 4 925 003 |
| 100 | 16 | 100 | 4 925 004 |
| 125 | 16 | 250 | 4 925 005 |
| 130 | 13 | 448 | 4 925 008 |
| 160 | 16 | 250 | 4 925 006 |
| 180 | 18 | 100 | 4 925 007 |



Culture tubes with rim

- made of borosilicate glass 3.3
- DIN 12395
- round bottom



pack = 100 pcs.

| Length | Outer Ø | Wall | Order number |
|--------|---------|---------|--------------|
| mm | mm | mm | pack |
| 70* | 8 | 0.8-1.0 | 4 903 100 |
| 75 | 12 | 0.8-1.0 | 4 903 101 |
| 100 | 12 | 0.8-1.0 | 4 903 102 |
| 130 | 16 | 1.0-1.2 | 4 903 103 |
| 160 | 16 | 1.0-1.2 | 4 903 104 |
| 180 | 18 | 1.0-1.2 | 4 903 105 |
| 150 | 20 | 1.0-1.2 | 4 903 106 |
| 150* | 25 | 1.0-1.2 | 4 903 108 |
| 200 | 25 | 1.0-1.2 | 4 903 109 |
| 200 | 30 | 1.0-1.4 | 4 903 110 |
| 100 | 10 | 0.8-1.0 | 4 903 113 |
| 130 | 14 | 0.8-1.0 | 4 903 114 |
| 180 | 18 | 1.0-1.2 | 4 903 120 |



Test tubes with heavy wall (~1mm)

- made of AR-glass
- plain top
- round bottom



pack = 100 pcs.

| Length | Outer Ø | Order number |
|--------|---------|--------------|
| mm | mm | pack |
| 40 | 8 | 4 904 002 |
| 70 | 10 | 4 904 003 |
| 75 | 12 | 4 904 004 |
| 85 | 15 | 4 904 006 |
| 100 | 10 | 4 904 007 |
| 100 | 12 | 4 904 008 |
| 100 | 14 | 4 904 009 |
| 100 | 16 | 4 904 010 |
| 130 | 14 | 4 904 012 |
| 160 | 16 | 4 904 014 |
| 180 | 18 | 4 904 015 |



* not according to DIN 12395

Reaction vessels

- made of PP or PE
- with and without affixed lid (perforated)
- transparent

dustfree pack = 1000 pcs.

| Volume | Lid | Material | Order number |
|--------|-----|----------|--------------|
| ml | | | pack |
| 0.25 | Yes | PE | 5 420 025 |
| 0.4 | | PE | 5 420 000 |
| 0.7 | | PP | 5 419 000 |
| 1.5 | | PP | 5 417 000 |
| 1.9 | | PP | 5 417 019 |
| 2.2 | | PP | 5 417 022 |
| 1.5 | - | PP | 5 418 000 |
| 2.2 | | PP | 5 418 022 |



Cryovials

- made of PP
- sterilized by radiation
- for deep freezing -20°C up to 196°C
- screw cap with seal joint
- white marking area

pack = 100 pcs.

| Volume | Bottom | Order number |
|--------|-----------------------|--------------|
| ml | | pack |
| 1.2 | conical | 5 485 001 |
| 2 | round - self standing | 5 485 002 |
| 4 | round - self standing | 5 485 003 |
| 5 | round | 5 485 004 |
| 2 | round | 5 485 005 |



Test tubes

pack = 1000 pcs.

- made of clear PS or translucent PP

| Volume ml | ØxH mm | Material | Bottom | Order number pack |
|--------------|-----------|----------|---------|----------------------|
| 4 | 11 x 70 | PS | round | 5 449 001 |
| 4 | 12 x 55 | PS | round | 5 449 002 |
| 5 | 12 x 75 | PS | round | 5 449 003 |
| 5 | 12 x 75 | PP | round | 5 449 004 |
| 4.5 | 12 x 75 | PS | conical | 5 449 005 |
| 12 | 16 x 100 | PS | round | 5 449 006 |
| 12 | 16 x 100 | PP | round | 5 449 007 |
| 12 | 17 x 103 | PS | conical | 5 449 009 |
| 12 | 18 x 115 | PS | conical | 5 449 010 |
| 12 | 18 x 115 | PS | round | 5 449 011 |



Centrifuge tubes - conical bottom 60° - heavy wall

- made of borosilicate glass 3.3

| Capacity ml | Length mm | Outer Ø mm | Order number |
|----------------|--------------|---------------|--------------|
| 15* | 100 | 16 | 4 945 001 |
| 25 | 100 | 24 | 4 945 002 |
| 50 | 100 | 34 | 4 945 003 |
| 80 | 100 | 44 | 4 945 004 |
| 85 | 115 | 40 | 4 945 005 |

* conical bottom 30°



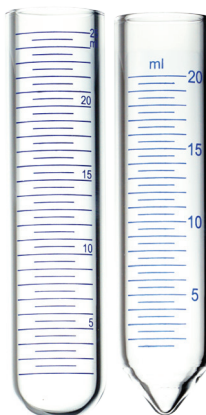
Centrifuge tubes graduated - heavy wall ~1.8mm

- made of borosilicate glass 3.3



| Capacity ml | Length mm | Outer Ø mm | Bottom | Graduation | Order number |
|----------------|--------------|---------------|---------|------------|--------------|
| 15* | 100 | 16 | round | 10ml:0.1 | 4 940 102 |
| 25* | 100 | 24 | | 20ml:0.1 | 4 940 103 |
| 50* | 100 | 34 | | 45ml:0.1 | 4 940 104 |
| 100* | 100 | 44 | | 85ml:0.1 | 4 940 105 |
| 250* | 147 | 56 | | 200ml:5 | 4 940 107 |
| 15 | 98 | 16 | conical | 10ml:0.1 | 4 945 101 |
| 25 | 98 | 24 | | 20ml:0.1 | 4 945 102 |
| 50 | 98 | 34 | | 45ml:0.1 | 4 945 103 |
| 100 | 98 | 44 | | 85ml:0.1 | 4 945 104 |

* according to DIN 58970 (Part 2)



Parafilm „M“

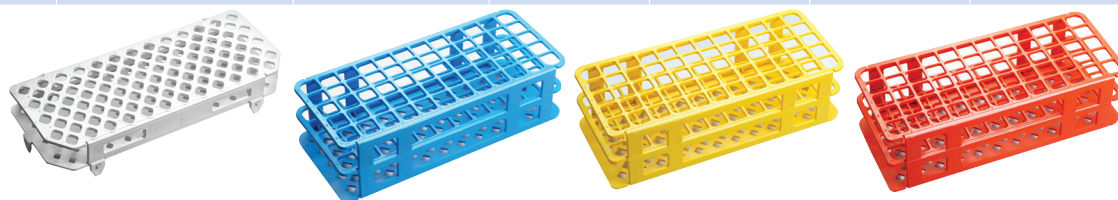
- roll in dispenser box

| Length m | Width mm | Order number |
|-------------|-------------|--------------|
| 75 | 50 | 7 148 001 |
| 75 | 100 | 7 148 002 |
| 38 | 100 | 7 148 003 |

Racks for test tubes, culture tubes and reaction vessels

- made of PP
- different colors available
- autoclavable up to 121°C
- detachable

| Holes | Hole Ø mm | Dimensions mm | Order number | | | |
|-------|-----------------------|------------------|--------------|--------------|-------------|-------------|
| | | | white | blue | yellow | red |
| 100 | micro tubes 1.5/2.0ml | 262 x 108 x 45 | 7 073 102 | 7 073 102 BL | 7 073 102 G | 7 073 102 R |
| 90 | 13 | 247 x 104 x 60 | 7 073 103 | 7 073 103 BL | 7 073 103 G | 7 073 103 R |
| 60 | 16 | 247 x 104 x 70 | 7 073 104 | 7 073 104 BL | 7 073 104 G | 7 073 104 R |
| 40 | 20 | 247 x 104 x 70 | 7 073 105 | 7 073 105 BL | 7 073 105 G | 7 073 105 R |
| 40 | 25 | 297 x 124 x 85 | 7 073 106 | 7 073 106 BL | 7 073 106 G | 7 073 106 R |
| 24 | 30 | 301 x 111 x 85 | 7 073 107 | 7 073 107 BL | 7 073 107 G | 7 073 107 R |

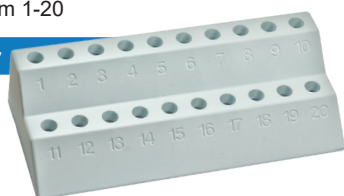


Tray for reaction vessels

- made of PP
- 20 places for 1.5ml vessels
- numeration from 1-20

Order number

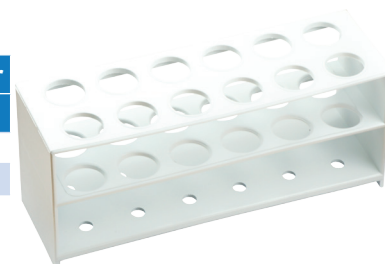
5 416 000



Racks for test tubes

- made of PP

| Holes | Hole Ø mm | Dimensions mm | Order number |
|-------|--------------|------------------|--------------|
| | | | |
| 10 | 19 | 250 x 50 x 75 | 7 068 001 |
| 24 | 21 | 375 x 65 x 85 | 7 068 002 |
| 12 | 21 | 190 x 60 x 80 | 7 069 002 |



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