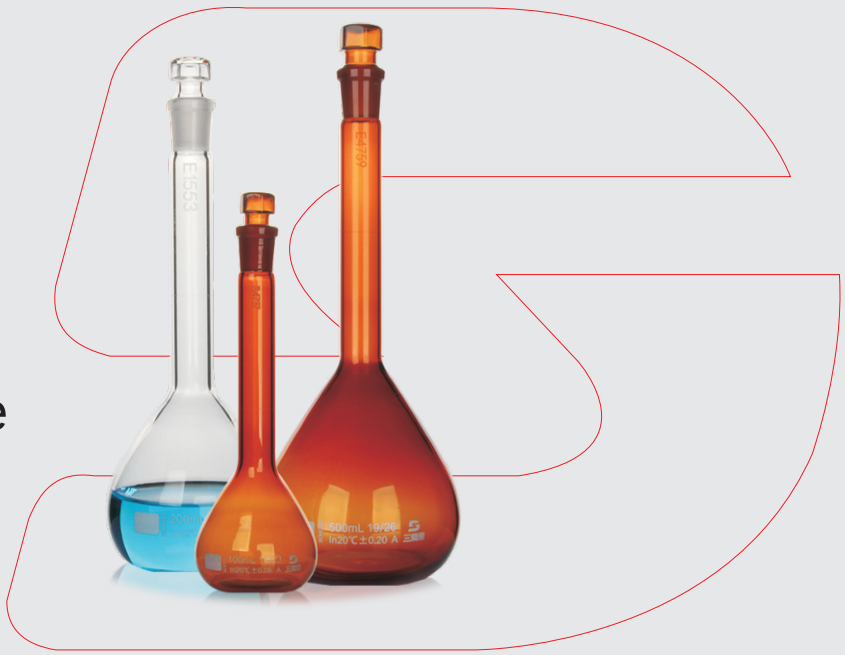
三爱思®

# 2023 Catalogue

Laboratory Glassware



# Higher Standard

Welcome to the 2023 Sanaisi Laboratory



# About Us

Jiangsu Sanaisi Scientific Instrument Co., Ltd. is dedicated to developing, manufacturing and selling high-quality laboratory glassware and laboratory consumables.

Registered in 2011, Sanaisi follows a business philosophy of "research, innovation and the pursuit of high quality" and takes "customer satisfaction" as its quality objective. The company has built a complete, demanding quality system and works to earn customer trust through high-quality products and service. Since its founding, Sanaisi has built its corporate culture around a brand-driven strategy; brand awareness and cohesion have risen quickly and its core competitiveness has kept growing. After ten years of development, Sanaisi-branded laboratory glassware, equipment and consumables have become a well-known domestic brand, with market share rising year after year, making it one of the leading brands of laboratory glassware in China. Sanaisi products are well regarded at home and are already exported to Germany, India, Singapore, Thailand, Malaysia and other neighbouring countries and regions.

Sanaisi has built a new production base in Jianhu, Jiangsu, training a large team of skilled glassware makers and introducing advanced production equipment from Germany. Combining this with its own strengths, the company has been moving from purely hand-working to semi-mechanised production, and has become one of the largest manufacturers of high-end glassware and laboratory consumables. Sanaisi will keep working closely with laboratories in pharmaceuticals, industry, clinical, environmental and food sectors, as well as government and university research institutes, to produce more standardised and better-designed laboratory glassware and consumables, laying a solid foundation for "laboratory glassware made in China".



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## Straight condenser

3mm wall thickness, selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints from 14-70mm and lengths are customizable; the sizes below are standard.

| Item No. | Size | Dia.*Length | Top*Bottom joint |
|---|---|---|---|
| A112420 | 200mm | 38*300 | 24*24 |
| A112430 | 300mm | 38*400 | 24*24 |
| A112440 | 400mm | 38*500 | 24*24 |
| A112450 | 500mm | 50*600 | 24*24 |
| A112460 | 600mm | 50*700 | 24*24 |



## Spherical condenser

3mm wall thickness, selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints from 14-70mm and lengths are customizable; the sizes below are standard.

| Item No. | Size | Dia.*Length | Top*Bottom joint |
|---|---|---|---|
| A122420 | 200mm | 38*300 | 24*24 |
| A122430 | 300mm | 38*400 | 24*24 |
| A122440 | 400mm | 38*500 | 24*24 |
| A122450 | 500mm | 50*600 | 24*24 |
| A122460 | 600mm | 50*700 | 24*24 |



## Coil condenser

3mm wall thickness, selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints from 14-70mm and lengths are customizable; the sizes below are standard.

| Item No. | Size | Dia.*Length | Top*Bottom joint |
|---|---|---|---|
| A132420 | 200mm | 38*300 | 24*24 |
| A132430 | 300mm | 38*400 | 24*24 |
| A132440 | 400mm | 38*500 | 24*24 |
| A132450 | 500mm | 50*600 | 24*24 |
| A132460 | 600mm | 55*700 | 24*24 |



## Coil reflux condenser

3mm wall thickness, selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints from 14-70mm and lengths are customizable; the sizes below are standard.

| Item No. | Size | Dia.*Length | Top*Bottom joint |
|---|---|---|---|
| A142420 | 200mm | 45*320 | 24*24 |
| A142430 | 300mm | 45*420 | 24*24 |
| A142440 | 400mm | 45*520 | 24*24 |
| A142450 | 500mm | 50*620 | 24*24 |
| A142460 | 600mm | 55*720 | 24*24 |



## Coil reflux condenser for rotary evaporator

Selected thick-wall high-borosilicate tubing, lathe-welded, sturdy and durable joints. The sizes below are stock items:

| Item No. | Size | Dia.*Length | Top*Bottom joint |
|---|---|---|---|
| C150420 | 420mm | 85*420 | 29*40 |

For reactors, joint 29/32, stopper 40/38. Joints and lengths of condensers are customizable.



## COD reflux condenser

3mm wall thickness, selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. The sizes below are for condensers; ground-joint Erlenmeyer flasks (see page P41)

| Item No. | Size | Dia.*Len.*Bulb | Bottom joint |
|---|---|---|---|
| A992430 | 300mm | 38*320*6 | 24/29 |
| A992440 | 400mm | 38*420*8 | 24/29 |

250mL set: 300mm/24 spherical condenser + 250mL/24 ground-joint Erlenmeyer flask. 500mL set: 400mm/24 spherical condenser + 500mL/24 ground-joint Erlenmeyer flask



## Coil condenser with 1801 condenser

3mm wall thickness, selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. The sizes below are for condensers and do not include flasks (see page P46)

| Item No. | Size | Effective length | Top joint |
|---|---|---|---|
| A181420 | 200mm | 200 | 14/23 |
| A181425 | 250mm | 250 | 14/23 |
| A181930 | 300mm | 300 | 19/26 |

500mL set: 500mL/24*14 flask + 200mm/14 coil condenser. 1000mL set: 1000mL/24*14 flask + 250mm/14 coil condenser. 2000mL set: 2000mL/29*19 flask + 300mm/19 coil condenser



## Cold finger condenser

Selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Nozzle O.D. 10mm

| Item No. | Joint | Effective length |
|---|---|---|
| A191410 | 14/23 | 100 |
| A191910 | 19/26 | 100 |
| A192415 | 24/29 | 150 |
| A192420 | 24/29 | 200 |
| A192422 | 24/29 | 220 |
| A192425 | 24/29 | 250 |



## Straight condenser with detachable nozzle

3mm wall thickness, selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints from 14-70mm and lengths are customizable; the sizes below are standard.

| Item No. | Size | Dia.*Length | Top*Bottom joint |
|---|---|---|---|
| C112420 | 200mm | 38*300 | 24*24 |
| C112430 | 300mm | 38*400 | 24*24 |
| C112440 | 400mm | 38*500 | 24*24 |
| C112450 | 500mm | 50*600 | 24*24 |
| C112460 | 600mm | 50*700 | 24*24 |



## Spherical condenser with detachable nozzle

3mm wall thickness, selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints from 14-70mm and lengths are customizable; the sizes below are standard.

| Item No. | Size | Dia.*Length | Top*Bottom joint |
|---|---|---|---|
| C122420 | 200mm | 38*300 | 24*24 |
| C122430 | 300mm | 38*400 | 24*24 |
| C122440 | 400mm | 38*500 | 24*24 |
| C122450 | 500mm | 50*600 | 24*24 |
| C122460 | 600mm | 50*700 | 24*24 |



## Coil condenser with detachable nozzle

3mm wall thickness, selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints from 14-70mm and lengths are customizable; the sizes below are standard.

| Item No. | Size | Dia.*Length | Top*Bottom joint |
|---|---|---|---|
| C132420 | 200mm | 38*300 | 24*24 |
| C132430 | 300mm | 38*400 | 24*24 |
| C132440 | 400mm | 38*500 | 24*24 |
| C132450 | 500mm | 50*600 | 24*24 |
| C132460 | 600mm | 55*700 | 24*24 |



## Coil reflux condenser with detachable nozzle

3mm wall thickness, selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints from 14-70mm and lengths are customizable; the sizes below are standard.

| Item No. | Size | Dia.*Length | Top*Bottom joint |
|---|---|---|---|
| C142420 | 200mm | 45*320 | 24*24 |
| C142430 | 300mm | 45*420 | 24*24 |
| C142440 | 400mm | 45*520 | 24*24 |
| C142450 | 500mm | 50*620 | 24*24 |
| C142460 | 600mm | 55*720 | 24*24 |



## Air condenser

Selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints from 14-70mm and lengths are customizable; the sizes below are standard.

| Item No. | Size | Dia.*Length | Top*Bottom joint |
|---|---|---|---|
| A152420 | 200mm | 15*260 | 24*24 |
| A152430 | 300mm | 15*360 | 24*24 |
| A152440 | 400mm | 15*460 | 24*24 |
| A152450 | 500mm | 15*560 | 24*24 |
| A152460 | 600mm | 15*660 | 24*24 |



## Packed column

Selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints from 14-70mm and lengths are customizable; the sizes below are standard.

| Item No. | Size | Dia.*Length | Top*Bottom joint |
|---|---|---|---|
| A162420 | 200mm | 30*260 | 24*24 |
| A162430 | 300mm | 30*360 | 24*24 |
| A162440 | 400mm | 30*460 | 24*24 |
| A162450 | 500mm | 30*560 | 24*24 |
| A162460 | 600mm | 30*660 | 24*24 |



## Glass spring packing

Also called spring packing. Very fine spring-shaped glass threads placed in a fractionating column as packing. The working principle is the same as the spikes in a spiked fractionating column. The advantage is that it is easy to remove and clean. Note: 200 g/box

| Item No. | Size | Dia.*Length | Packaging |
|---|---|---|---|
| A170200 | 200g | 3.5*12 | 200 g/box |



## Spiked distillation column

Selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints and lengths of condensers are customizable; the sizes below are standard.

| Item No. | Size | Dia.*Spike | Top*Bottom joint |
|---|---|---|---|
| A212420 | 200mm | 30*200 | 24*24 |
| A212430 | 300mm | 30*300 | 24*24 |
| A212440 | 400mm | 30*400 | 24*24 |
| A212450 | 500mm | 30*500 | 24*24 |
| A212460 | 600mm | 30*600 | 24*24 |



## Spiked distillation column with side arm

Wall thickness, selected high-borosilicate tubing, lathe-welded, sturdy and durable joints. Joints and lengths of condensers are customizable; the sizes below are standard.

| Item No. | Size | Tube dia.*Spike length | Joint |
|---|---|---|---|
| A222420 | 200mm | 30*200 | 24/29 |
| A222430 | 300mm | 30*300 | 24/29 |
| A222440 | 400mm | 30*400 | 24/29 |
| A222450 | 500mm | 30*500 | 24/29 |
| A222460 | 600mm | 30*600 | 24/29 |



## Receiving bulb

Standard pressurization: pressure head + solvent reservoir bulb + chromatography column + double bulb. Chromatography columns come in a full range and can be customized; common sizes of reservoir bulbs below:

| Item No. | Size | Joint |
|---|---|---|
| A274100 | 100mL | 24/29 |
| A274250 | 250mL | 24/29 |
| A274500 | 500mL | 24/29 |
| A27241L | 1000mL | 24/29 |
| A27242L | 2000mL | 24/29 |



## Kjeldahl flask

Also called Kjeldahl flask; can be used with the ammonia-nitrogen distillation apparatus.

| Item No. | Size | Joint |
|---|---|---|
| S164100 | 100mL | 24/29 |
| S164250 | 250mL | 24/29 |
| S164500 | 500mL | 24/29 |
| S16241L | 1000mL | 24/29 |



## Single-neck round-bottom flask with spherical joint

Abbreviated as spherical-joint flask; can be used as the receiving flask on a rotary evaporator.

| Item No. | Size | Bulb dia. | Neck | Thickness | Joint |
|---|---|---|---|---|---|
| S143550 | 50mL | 53±1 | 20-25 | 2-2.5 | 35/20 |
| S148100 | 100mL | 65±2 | 20-25 | 2-2.5 | 35/20 |
| S148250 | 250mL | 88±2 | 20-25 | 2-2.5 | 35/20 |
| S148500 | 500mL | 109±2 | 20-25 | 2-2.5 | 35/20 |
| S14351L | 1000mL | 135±2 | 20-25 | 2-2.5 | 35/20 |



## Single-neck round-bottom flask

Selected thick-wall high-borosilicate flasks; 1000ml and below are hand-blown, 2000ml and above from bulk tubing. Uniform wall, durable, good heat transfer, resistant to ultrasonic cleaning. Custom sizes available; common sizes below:

| Item No. | Size | Bulb dia. | Neck | Thickness | Joint |
|---|---|---|---|---|---|
| S111410 | 10ml | 37±1 | 20-25 | 2-2.5 | 14/23 |
| S111925 | 25ml | 42±1 | 20-25 | 2-2.5 | 19/26 |
| S112450 | 50ml | 53±1 | 20-25 | 2-2.5 | 24/29 |
| S114100 | 100ml | 65±2 | 20-25 | 2-2.5 | 24/29 |
| S114125 | 125ml | 70±2 | 20-25 | 2-2.5 | 24/29 |
| S114150 | 150ml | 75±2 | 20-25 | 2-2.5 | 24/29 |
| S114200 | 200ml | 80±2 | 20-25 | 2-2.5 | 24/29 |
| S114250 | 250ml | 88±2 | 20-25 | 2-2.5 | 24/29 |
| S114500 | 500ml | 109±2 | 20-25 | 2-2.5 | 24/29 |
| S11241L | 1000ml | 135±2 | 30-35 | 2-2.5 | 24/29 |
| S11291L | 1000ml | 135±2 | 30-35 | 2-2.5 | 29/32 |
| S11242L | 2000ml | 166±3 | 30-40 | 2-3 | 24/29 |
| S11292L | 2000ml | 166±3 | 30-40 | 2-3 | 29/32 |
| S11243L | 3000ml | 195±3 | 30-40 | 2.1-3.5 | 24/29 |
| S11293L | 3000ml | 195±3 | 30-40 | 2.1-3.5 | 29/32 |
| S11245L | 5000ml | 230±3 | 50-60 | 2.1-3.5 | 24/29 |
| S11210L | 10000ml | 290±3 | 50-60 | 2.5-4 | 40/38 |
| S11220L | 20000ml | 355±3 | 50-60 | 3-5 | 40/38 |
| S11230L | 30000ml | 420±4 | 60-70 | 3.5-5 | 40/38 |
| S11250L | 50000ml | 470±4 | 60-70 | 3.5-5 | 40/38 |



## Flanged rotary evaporator flask

| Item No. | Size | Bulb dia. | Neck | Thickness | Joint |
|---|---|---|---|---|---|
| S12505L | 5000ml | 230±3 | 50-60 | 2.3-3.5 | 50 |

## Flat-bottom flask



Selected thick-wall high-borosilicate flasks; 1000ml and below are hand-blown, 2000ml and above from bulk tubing. Uniform wall, durable, good heat transfer, resistant to ultrasonic cleaning. Custom sizes available; common sizes below

| Item No. | Size | Joint |
|---|---|---|
| S264100 | 100ml | 24/29 |
| S264150 | 150ml | 24/29 |
| S264200 | 200ml | 24/29 |
| S264250 | 250ml | 24/29 |
| S264500 | 500ml | 24/29 |
| S26241L | 1000ml | 24/29 |



## 2-neck angled flask

Selected thick-wall high-borosilicate flasks; 1000ml and below are hand-blown, 2000ml and above from bulk tubing. Uniform wall, durable, good heat transfer, resistant to ultrasonic cleaning. Custom sizes available; common sizes below:

| Item No. | Size | Main joint | Side joint |
|---|---|---|---|
| S171950 | 50ml | 19/26 | 19/26 |
| S172450 | 50ml | 24/29 | 24/29 |
| S170100 | 100ml | 14/23 | 14/23 |
| S171100 | 100ml | 19/26 | 19/26 |
| S174100 | 100ml | 24/29 | 24/29 |
| S174150 | 150ml | 24/29 | 24/29 |
| S174250 | 250ml | 24/29 | 24/29 |
| S174500 | 500ml | 24/29 | 24/29 |
| S17241L | 1000ml | 24/29 | 24/29 |
| S17242L | 2000ml | 24/29 | 24/29 |



## 2-neck straight flask

Selected thick-wall high-borosilicate flasks; 1000ml and below are hand-blown, 2000ml and above from bulk tubing. Uniform wall, durable, good heat transfer, resistant to ultrasonic cleaning. Custom sizes available; common sizes below:

| Item No. | Size | Main joint | Side joint |
|---|---|---|---|
| S181950 | 50ml | 19/26 | 19/26 |
| S182450 | 50ml | 24/29 | 24/29 |
| S181100 | 100ml | 19/26 | 19/26 |
| S184100 | 100ml | 24/29 | 24/29 |
| S184150 | 150ml | 24/29 | 24/29 |
| S184250 | 250ml | 24/29 | 24/29 |
| S184500 | 500ml | 24/29 | 24/29 |
| S18241L | 1000ml | 24/29 | 24/29 |




## Threaded 2-neck round flask

The side joint accepts a thermometer or gas tube of 5-7.5mm O.D. The hollow nylon cap holds a solid rubber gasket (flexible, the thermometer passes through) for better sealing. Bulbs are hand-blown from glass tubing. Other joints available on request.

| Item No. | Size | Main joint | Side joint |
|---|---|---|---|
| S27G405 | 50ml | 24/29 | Gl14 |
| S27G410 | 100ml | 24/29 | GL14 |
| S27G425 | 250ml | 24/29 | GL14 |
| S27G450 | 500ml | 24/29 | Gl14 |



## 3-neck angled flask

Selected thick-wall high-borosilicate flasks; 1000ml and below are hand-blown, 2000ml and above from bulk tubing. Uniform wall, durable, good heat transfer, resistant to ultrasonic cleaning. Custom sizes available; common sizes below:

| Item No. | Size | Main joint | Side joint |
|---|---|---|---|
| S191450 | 50ml | 14/23 | 14/23 |
| S191950 | 50ml | 19/26 | 19/26 |
| S19050B | 50ml | 24/29 | 19/26 |
| S19050A | 100ml | 19/26 | 14/23 |
| S191100 | 100ml | 19/26 | 19/26 |
| S19100B | 100ml | 24/29 | 19/26 |
| S194100 | 100ml | 24/29 | 24/29 |
| S191150 | 150ml | 19/26 | 19/26 |
| S19150B | 150ml | 24/29 | 19/26 |
| S194150 | 150ml | 24/29 | 24/29 |
| S191250 | 250ml | 19/26 | 19/26 |
| S19250B | 250ml | 24/29 | 19/26 |
| S194250 | 250ml | 24/29 | 24/29 |
| S191500 | 500ml | 19/26 | 19/26 |
| S19500B | 500ml | 24/29 | 19/26 |
| S194500 | 500ml | 24/29 | 24/29 |
| S19241L | 1000ml | 24/29 | 24/29 |
| S19242L | 2000ml | 24/29 | 24/29 |
| S1902LC | 2000ml | 29/32 | 24/29 |
| S1902LE | 2000ml | 40/38 | 24/29 |
| S19243L | 3000ml | 24/29 | 24/29 |
| S1903LC | 3000ml | 29/32 | 24/29 |
| S1903LE | 3000ml | 40/38 | 24/29 |
| S19245L | 5000ml | 24/29 | 24/29 |
| S1905LC | 5000ml | 29/32 | 24/29 |
| S1905LE | 5000ml | 40/38 | 24/29 |
| S1910LE | 10000ml | 40/38 | 24/29 |
| S1910LF | 10000ml | 50/42 | 24/29 |
| S1920LE | 20000ml | 40/38 | 24/29 |
| S1920LF | 20000ml | 50/42 | 24/29 |
| S1930LE | 30000ml | 40/38 | 24/29 |
| S1930LF | 30000ml | 50/42 | 24/29 |
| S1950LE | 50000ml | 40/38 | 24/29 |
| S1950LF | 50000ml | 50/42 | 24/29 |



## 3-neck straight flask

Selected thick-wall high-borosilicate flasks; 1000ml and below are hand-blown, 2000ml and above from bulk tubing. Uniform wall, durable, good heat transfer, resistant to ultrasonic cleaning. Custom sizes available; common sizes below:

| Item No. | Size | Main joint | Side joint |
|---|---|---|---|
| S211450 | 50ml | 14/23 | 14/23 |
| S211950 | 50ml | 19/26 | 19/26 |
| S21050B | 50ml | 24/29 | 19/26 |
| S21050A | 100ml | 19/26 | 14/23 |
| S211100 | 100ml | 19/26 | 19/26 |
| S21100B | 100ml | 24/29 | 19/26 |
| S214100 | 100ml | 24/29 | 24/29 |
| S211150 | 150ml | 19/26 | 19/26 |
| S21150B | 150ml | 24/29 | 19/26 |
| S214150 | 150ml | 24/29 | 24/29 |
| S211250 | 250ml | 19/26 | 19/26 |
| S21250B | 250ml | 24/29 | 19/26 |
| S214250 | 250ml | 24/29 | 24/29 |
| S211500 | 500ml | 19/26 | 19/26 |
| S21500B | 500ml | 24/29 | 19/26 |
| S214500 | 500ml | 24/29 | 24/29 |
| S21241L | 1000ml | 24/29 | 24/29 |
| S21242L | 2000ml | 24/29 | 24/29 |
| S2102LC | 2000ml | 29/32 | 24/29 |
| S2102LE | 2000ml | 40/38 | 24/29 |
| S21243L | 3000ml | 24/29 | 24/29 |
| S2103LC | 3000ml | 29/32 | 24/29 |
| S2103LE | 3000ml | 40/38 | 24/29 |
| S21245L | 5000ml | 24/29 | 24/29 |
| S2105LC | 5000ml | 29/32 | 24/29 |
| S2105LE | 5000ml | 40/38 | 24/29 |
| S2110LE | 10000ml | 40/38 | 24/29 |
| S2110LF | 10000ml | 50/42 | 24/29 |
| S2120LE | 20000ml | 40/38 | 24/29 |
| S2120LF | 20000ml | 50/42 | 24/29 |
| S2130LE | 30000ml | 40/38 | 24/29 |
| S2130LF | 30000ml | 50/42 | 24/29 |
| S2150LE | 50000ml | 40/38 | 24/29 |
| S2150LF | 50000ml | 50/42 | 24/29 |



## 4-neck angled flask

Selected thick-wall high-borosilicate flasks; 1000ml and below are hand-blown, 2000ml and above from bulk tubing. Uniform wall, durable, good heat transfer, resistant to ultrasonic cleaning. Custom sizes available; common sizes below:

| Item No. | Size | Main joint | Side joint |
|---|---|---|---|
| S221100 | 100ml | 19/26 | 19/26 |
| S22100B | 100ml | 24/29 | 19/26 |
| S224100 | 100ml | 24/29 | 24/29 |
| S221250 | 250ml | 19/26 | 19/26 |
| S22250B | 250ml | 24/29 | 19/26 |
| S224250 | 250ml | 24/29 | 24/29 |
| S221500 | 500ml | 19/29 | 19/26 |
| S22500B | 500ml | 24/29 | 19/26 |
| S224500 | 500ml | 24/29 | 24/29 |
| S22241L | 1000ml | 24/29 | 24/29 |
| S2201LE | 1000ml | 40/38 | 24/29 |
| S22242L | 2000ml | 24/29 | 24/29 |
| S2202LC | 2000ml | 29/32 | 24/29 |
| S2202LE | 2000ml | 40/38 | 24/29 |
| S22243L | 3000ml | 24/29 | 24/29 |
| S2203LC | 3000ml | 29/32 | 24/29 |
| S2203LE | 3000ml | 40/38 | 24/29 |
| S22245L | 5000ml | 24/29 | 24/29 |
| S2205LE | 5000ml | 40/38 | 24/29 |
| S2210LE | 10000ml | 40/38 | 24/29 |
| S2210LF | 10000ml | 50/42 | 24/29 |
| S2220LE | 20000ml | 40/38 | 24/29 |
| S2220LF | 20000ml | 50/42 | 24/29 |
| S2230LE | 30000ml | 40/38 | 24/29 |
| S2230LF | 30000ml | 50/42 | 24/29 |
| S2250LE | 50000ml | 40/38 | 24/29 |
| S2250LF | 50000ml | 50/42 | 24/29 |



## Spherical reaction flask

Every Sanaisi stopcock is individually tested with a vacuum pump to ensure a tight, leak-free seal. Nozzle O.D. 10mm

| Item No. | Size | Main joint | Stopcock |
|---|---|---|---|
| F184100 | 100ml | 24/29 | Glass |
| F184250 | 250ml | 24/29 | Glass |
| F184500 | 500ml | 24/29 | Glass |
| F18241L | 1000ml | 24/29 | Glass |
| F18242L | 2000ml | 24/29 | Glass |



## 4-neck straight flask

Selected thick-wall high-borosilicate flasks; 1000ml and below are hand-blown, 2000ml and above from bulk tubing. Uniform wall, durable, good heat transfer, resistant to ultrasonic cleaning. Custom sizes available; common sizes below:

| Item No. | Size | Main joint | Side joint |
|---|---|---|---|
| S231100 | 100ml | 19/26 | 19/26 |
| S23100B | 100ml | 24/29 | 19/26 |
| S234100 | 100ml | 24/29 | 24/29 |
| S231250 | 250ml | 19/26 | 19/26 |
| S23250B | 250ml | 24/29 | 19/26 |
| S234250 | 250ml | 24/29 | 24/29 |
| S231500 | 500ml | 19/29 | 19/26 |
| S23500B | 500ml | 24/29 | 19/26 |
| S234500 | 500ml | 24/29 | 24/29 |
| S23241L | 1000ml | 24/29 | 24/29 |
| S2301LE | 1000ml | 40/38 | 24/29 |
| S23242L | 2000ml | 24/29 | 24/29 |
| S2302LC | 2000ml | 29/32 | 24/29 |
| S2302LE | 2000ml | 40/38 | 24/29 |
| S23243L | 3000ml | 24/29 | 24/29 |
| S2303LC | 3000ml | 29/32 | 24/29 |
| S2303LE | 3000ml | 40/38 | 24/29 |
| S23245L | 5000ml | 24/29 | 24/29 |
| S2305LE | 5000ml | 40/38 | 24/29 |
| S2310LE | 10000ml | 40/38 | 24/29 |
| S2310LF | 10000ml | 50/42 | 24/29 |
| S2320LE | 20000ml | 40/38 | 24/29 |
| S2320LF | 20000ml | 50/42 | 24/29 |
| S2330LE | 30000ml | 40/38 | 24/29 |
| S2330LF | 30000ml | 50/42 | 24/29 |
| S2350LE | 50000ml | 40/38 | 24/29 |
| S2350LF | 50000ml | 50/42 | 24/29 |



## 4-neck round-bottom flask with threaded side joint

The side joint accepts a thermometer or gas tube of 5-7.5mm O.D. The hollow nylon cap holds a solid rubber gasket (flexible, the thermometer passes through) for better sealing. Bulbs are hand-blown from glass tubing. Other joints available on request.

| Item No. | Size | Main joint | Side joint |
|---|---|---|---|
| S29250S | 250ml | 24/29 | 24/29 |
| S29500S | 500ml | 24/29 | 24/29 |
| S2901LS | 1000ml | 24/29 | 24/29 |
| S2902LS | 2000ml | 24/29 | 24/29 |



## Pear-shaped flask

Also called heart-shaped flask. Selected high-borosilicate flask, thick-wall design, hand-blown body, sturdy and durable. Joints and shapes can be customized; the sizes below are standard:

| Item No. | Size | Joint |
|---|---|---|
| S131410 | 10ml | 14/23 |
| S131925 | 25ml | 19/26 |
| S132450 | 50ml | 24/29 |
| S131100 | 100ml | 19/26 |
| S134100 | 100ml | 24/29 |
| S139100 | 100ml | 29/32 |
| S134150 | 150ml | 24/29 |
| S134250 | 250ml | 24/29 |

## Eggplant-shaped flask

Selected high-borosilicate thick-wall flask; 250ml and below are lathe-made and concentricity checked. Custom sizes available; common sizes below:



| Item No. | Size | Joint |
|---|---|---|
| S151410 | 10ml | 14/23 |
| S151925 | 25ml | 19/26 |
| S152425 | 25ml | 24/29 |
| S151950 | 50ml | 19/26 |
| S152450 | 50ml | 24/29 |
| S151100 | 100ml | 19/26 |
| S154100 | 100ml | 24/29 |
| S159100 | 100ml | 29/32 |
| S151250 | 250ml | 19/26 |
| S154250 | 250ml | 24/29 |
| S159250 | 250ml | 29/32 |
| S154500 | 500ml | 24/29 |
| S159500 | 500ml | 29/32 |
| S15241L | 1000ml | 24/29 |
| S15291L | 1000ml | 29/32 |
| S15242L | 2000ml | 24/29 |
| S15292L | 2000ml | 29/32 |
| S15243L | 3000ml | 24/29 |
| S15293L | 3000ml | 29/32 |



## 2-neck pear-shaped flask

Also called 2-neck heart-shaped flask. Selected high-borosilicate flask, thick-wall design, hand-blown body, sturdy and durable. Joints and shapes can be customized; the sizes below are standard:

| Item No. | Size | Main joint | Main joint |
|---|---|---|---|
| S281410 | 10ml | 14/23 | 14/23 |
| S281925 | 25ml | 19/26 | 19/26 |
| S28050B | 50ml | 24/29 | 24/29 |
| S28100B | 100ml | 24/29 | 24/29 |
| S28150B | 150ml | 24/29 | 24/29 |
| S28250B | 250ml | 24/29 | 24/29 |

## Splash trap

Connects between the rotary evaporator and the round flask to prevent contamination and bumping. Sanaisi splash traps are all thick-walled, lathe-welded and concentricity checked. Common sizes below:



| Item No. | Size | Main joint | Main joint |
|---|---|---|---|
| A242414 | 100ml | 24/29 | 14/23 |
| A242419 | 100ml | 24/29 | 19/26 |
| A242424 | 100ml | 24/29 | 24/29 |
| A242914 | 100ml | 29/32 | 14/23 |
| A242919 | 100ml | 29/32 | 19/26 |
| A242924 | 100ml | 29/32 | 24/29 |
| A242929 | 100ml | 29/32 | 29/32 |
| A252414 | 250ml | 24/29 | 14/23 |
| A252419 | 250ml | 24/29 | 19/26 |
| A252424 | 250ml | 24/29 | 24/29 |
| A252914 | 250ml | 29/32 | 14/23 |
| A252919 | 250ml | 29/32 | 19/26 |
| A252924 | 250ml | 29/32 | 24/29 |
| A252929 | 250ml | 29/32 | 29/32 |



## Anti-foam bulb

Prevents foam generated during rotary evaporation from entering the evaporator. Sanaisi anti-foam bulbs are all thick-walled, lathe-welded and concentricity checked. Common sizes below:

| Item No. | Size | Main joint | Main joint |
|---|---|---|---|
| A234100 | 100ml | 24/29 | 24/29 |
| A234250 | 250ml | 24/29 | 24/29 |



## Distillation head

75 degrees, for connecting the flask to the condenser.

| Item No. | Top joint | Lower stopper | Side stopper |
|---|---|---|---|
| A350014 | 14/23 | 14/23 | 14/23 |
| A350019 | 19/26 | 19/26 | 19/26 |
| A350024 | 24/29 | 24/29 | 24/29 |
| A350029 | 29/32 | 29/32 | 29/32 |
| A350044 | 14/23 | 19/26 | 24/29 |



## Distillation elbow

75 degrees, both ports are outer ground joints (cones).

| Item No. | Joint |
|---|---|
| A361414 | 14/23 |
| A361919 | 19/26 |
| A362424 | 24/29 |



## Distillation elbow

105 degrees, one joint and one stopper. For cleaning rotary evaporators: fill the elbow with ethanol or propanol, connect one end to the evaporator shaft, block the other end with a finger; when the vacuum reaches a certain level, release the finger and the cleaning liquid is drawn into the evaporator by the vacuum. Other angles available on request.

| Item No. | Joint |
|---|---|
| A371414 | 14/23 |
| A371919 | 19/26 |
| A372424 | 24/29 |



## Long-neck vacuum adapter

Serrated nozzle shape, nozzle O.D. 10mm

| Item No. | Joint | Length below joint (mm) |
|---|---|---|
| A820100 | 14/23 | 100 |
| A821100 | 19/26 | 100 |
| A824200 | 24/29 | 200 |



## Vacuum adapter

Also called vacuum tail adapter, nozzle O.D. 10mm; guides the liquid during vacuum distillation.

| Item No. | Joint |
|---|---|
| A451414 | 14/23 |
| A451919 | 19/26 |
| A452424 | 24/29 |
| A452929 | 29/32 |



## Suction adapter

Also called straight vacuum adapter, 10mm nozzle; right nozzle to the pump, bottom to the receiving flask

| Item No. | Joint |
|---|---|
| A461414 | 14/23 |
| A461919 | 19/26 |
| A462424 | 24/29 |
| A462929 | 29/32 |



## 105 degree distillation head

At the bottom there is an outer ground joint with an inner drip tube; the top has an inner ground joint.

| Item No. | Joint |
|---|---|
| A471414 | 14/23 |
| A471919 | 19/26 |
| A472424 | 24/29 |
| A472929 | 29/32 |



## Adapter with nozzle

Nozzle O.D. 10mm, for atmospheric distillation; the bottom joint connects to the receiving flask

| Item No. | Joint |
|---|---|
| A731414 | 14/23 |
| A731919 | 19/26 |
| A732424 | 24/29 |
| A732929 | 29/32 |



## 2-way adapter

Also called Claisen adapter or Y-tube

| Item No. | Joint |
|---|---|
| A390014 | 14/23 |
| A390019 | 19/26 |
| A390124 | 24/29 |
| A390029 | 29/32 |



## 3-way adapter

Thick-wall design

| Item No. | Joint |
|---|---|
| A550019 | 19/26 |
| A550024 | 24/29 |
| A550029 | 29/32 |



## Claisen distillation head

Also called Claisen adapter; can be used in vacuum distillation apparatus

| Item No. | Joint |
|---|---|
| A410014 | 14/23 |
| A410019 | 19/26 |
| A410024 | 24/29 |
| A410029 | 29/32 |



## Spiked fractionating head

Thick-wall design, spiked seal

| Item No. | Joint |
|---|---|
| A420014 | 14/23 |
| A420019 | 19/26 |
| A420024 | 24/29 |
| A420029 | 29/32 |



## Vacuum 2-way adapter

Serrated nozzle 10mm O.D., connects below to round-bottom or eggplant flasks up to 100ml. For larger flasks a wider spacing must be custom made.

| Item No. | Joint |
|---|---|
| A520014 | 14/23 |
| A530019 | 19/26 |
| A530024 | 24/29 |
| A530029 | 29/32 |



## Vacuum 3-way adapter

Serrated nozzle 10mm O.D., connects below to round-bottom or eggplant flasks up to 100ml. For larger flasks a wider spacing must be custom made.

| Item No. | Joint |
|---|---|
| A540014 | 14/23 |
| A540019 | 19/26 |
| A540024 | 24/29 |
| A540029 | 29/32 |



## 3-way distillation receiver

Top joint at 135 deg to the three lower joints; adjacent outlets 40 deg apart.

| Item No. | Joint |
|---|---|
| A850014 | 14/23 |
| A850019 | 19/26 |
| A850024 | 24/29 |



## Multi-flask distillation head

For thin-film rotary evaporators; connects up to 5 evaporator flasks at once.

| Item No. | Size | Top joint | Lower stopper |
|---|---|---|---|
| A849245 | 100ml | 29/32 | 24/29 |



## Bent adapter

Used to extend the length of the apparatus; can also serve as a gas condensing device. The top is a standard inner joint, the bottom a standard outer joint.

| Item No. | Joint |
|---|---|
| A381414 | 14/23 |
| A381919 | 19/26 |
| A382424 | 24/29 |



## Cow-horn adapter

105 degrees

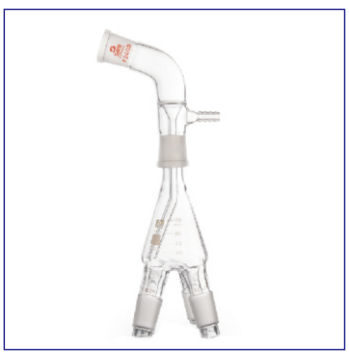
| Item No. | Joint | Outlet tube O.D. / I.D. |
|---|---|---|
| A430014 | 14/23 | 12*8 |
| A430019 | 19/26 | 12*8 |
| A430024 | 24/29 | 12*8 |
| A430029 | 29/32 | 12*8 |



## Vacuum receiver

By rotating, the lower receiving flask collects different fractions.

| Item No. | Top joint | Lower stopper |
|---|---|---|
| A869245 | 29/32 | 24/29 |



## Receiver set

Three parts: 1. Upper part: distillation adapter, both ends are female (inner) joints. 2. Middle: 24 plastic joint clip. 3. Lower part: 4-way distillation receiver, all male (outer) joints.

| Item No. | Joint |
|---|---|
| A910024 | 24/29 |



## Water separator, type A

Separates water from reaction or distillation systems; fitted with stopcock.

| Item No. | Joint | Stopcock |
|---|---|---|
| F221414 | 14/23 | Glass |
| F221919 | 19/26 | Glass |
| F222424 | 24/29 | Glass |
| F231414 | 14/23 | PTFE |
| F231919 | 19/26 | PTFE |
| F232424 | 24/29 | PTFE |



## Water separator, type B

Separates water from reaction or distillation systems; fitted with stopcock.

| Item No. | Joint | Stopcock |
|---|---|---|
| F241414 | 14/23 | Glass |
| F241919 | 19/26 | Glass |
| F242424 | 24/29 | Glass |
| F251414 | 14/23 | PTFE |
| F251919 | 19/26 | PTFE |
| F252424 | 24/29 | PTFE |



## Moisture meter

Used with: 400mm/24*24 spherical condenser + 500ml/24 single-neck flask

| Item No. | Size | Accuracy | Joint |
|---|---|---|---|
| D262410 | 10mL | 0.2mL | 24/29 |



## NMR tube cleaning device (single)

Economy NMR tube 5mm (with cap) available

| Item No. | Joint |
|---|---|
| A99024M | 24/40 |




## Type A adapter

Small top, large bottom; seen from below, the large joint becomes the small one.

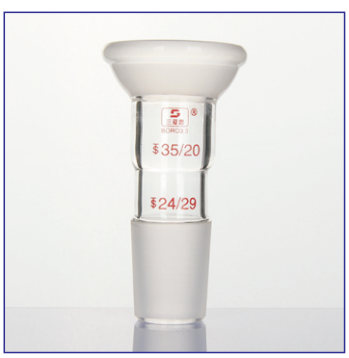
| Item No. | Joint | Stopcock |
|---|---|---|
| A281014 | 10/19 | 14/23 |
| A281019 | 10/19 | 19/26 |
| A281024 | 10/19 | 24/29 |
| A281419 | 14/23 | 19/26 |
| A281424 | 14/23 | 24/29 |
| A281924 | 19/26 | 24/29 |
| A281929 | 19/26 | 29/32 |
| A282424 | 24/29 | 24/29 |
| A282429 | 24/29 | 29/32 |
| A282434 | 24/29 | 34/35 |
| A282440 | 24/29 | 40/38 |
| A282450 | 24/29 | 50/42 |
| A282934 | 29/32 | 34/35 |
| A282940 | 29/32 | 40/38 |
| A282950 | 29/32 | 50/42 |

## Type B adapter

Large top, small bottom; seen from below, the small joint becomes the large one.




| Item No. | Joint | Stopcock |
|---|---|---|
| A291410 | 14/23 | 10/19 |
| A291910 | 19/26 | 10/19 |
| A292410 | 24/29 | 10/19 |
| A291914 | 19/26 | 14/23 |
| A292414 | 24/29 | 14/23 |
| A292419 | 24/29 | 19/26 |
| A292919 | 29/32 | 19/26 |
| A292924 | 29/32 | 24/29 |
| A293424 | 34/35 | 24/29 |
| A294024 | 40/38 | 24/29 |
| A295024 | 50/42 | 24/29 |
| A293429 | 34/35 | 29/32 |
| A294029 | 40/38 | 29/32 |
| A295029 | 50/42 | 29/32 |




## Ball-and-socket to standard joint adapter

Large top, small bottom; seen from below, the small joint becomes the large one.

| Item No. | Joint | Stopcock |
|---|---|---|
| A313524 | 35/20 | 24/29 |



## Adapter

Joint-to-stopper adapter, used to extend the length of the apparatus and also as a gas condensing device. The top is a standard inner joint, the bottom a standard outer joint.

| Item No. | Joint | Length between joints (mm) |
|---|---|---|
| A321430 | 14/13 | 30 |
| A321490 | 14/23 | 90 |
| A321930 | 19/26 | 30 |
| A321955 | 19/26 | 55 |
| A321990 | 19/26 | 90 |
| A322430 | 24/29 | 30 |
| A322470 | 24/29 | 70 |
| A324120 | 24/29 | 120 |
| A324175 | 24/29 | 175 |



## Adapter

Stopper-to-stopper adapter, cones at both ends, for connecting two joints.

| Item No. | Joint | Length between joints (mm) |
|---|---|---|
| A331430 | 14/13 | 30 |
| A331490 | 14/23 | 90 |
| A331930 | 19/26 | 30 |
| A331990 | 19/26 | 90 |
| A332430 | 24/29 | 30 |
| A332470 | 24/29 | 70 |
| A334120 | 24/29 | 120 |
| A334175 | 24/29 | 175 |



## Adapter

Both ends are inner joints, for connecting two ground joints.

| Item No. | Joint | Length between joints (mm) |
|---|---|---|
| A341430 | 14/13 | 30 |
| A341490 | 14/23 | 90 |
| A341930 | 19/26 | 30 |
| A341990 | 19/26 | 90 |
| A342430 | 24/29 | 30 |
| A342470 | 24/29 | 70 |
| A344120 | 24/29 | 120 |
| A344175 | 24/29 | 175 |



## Bent suction adapter

Also called: bent adapter plug, nozzle O.D. 10mm, for gas or liquid inlet (outlet)

| Item No. | Joint |
|---|---|
| A560014 | 14/23 |
| A560019 | 19/26 |
| A560024 | 24/29 |
| A560029 | 29/32 |
| A560034 | 34/35 |
| A560040 | 40/38 |



## Bent suction adapter with double hooks

Also called: bent adapter plug, nozzle O.D. 10mm, for gas or liquid inlet (outlet)

| Item No. | Joint |
|---|---|
| A570014 | 14/23 |
| A570019 | 19/26 |
| A570024 | 24/29 |
| A570029 | 29/32 |
| A570034 | 34/35 |
| A570040 | 40/38 |



## Straight suction adapter (outer joint)

Also called: direct stopper, nozzle O.D. 10mm, for gas or liquid inlet (outlet)

| Item No. | Joint |
|---|---|
| A580014 | 14/23 |
| A580019 | 19/26 |
| A580024 | 24/29 |
| A580029 | 29/32 |
| A580034 | 34/35 |
| A580040 | 40/38 |



## Straight suction adapter (inner joint)

Also called: direct joint, nozzle O.D. 10mm, for gas or liquid inlet (outlet)

| Item No. | Joint |
|---|---|
| A590014 | 14/23 |
| A590019 | 19/26 |
| A590024 | 24/29 |
| A590029 | 29/32 |
| A590034 | 34/35 |
| A590040 | 40/38 |




## Double-nozzle suction adapter

Nozzle O.D. 10mm, for gas or liquid inlet (outlet)

| Item No. | Joint |
|---|---|
| A610014 | 14/23 |
| A610019 | 19/26 |
| A610024 | 24/29 |
| A610029 | 29/32 |




## Thermometer adapter

With 10/19 thermometer joint; connects to multi-neck round flasks

| Item No. | Joint |
|---|---|
| A621024 | 24/29 |




## Suction adapter with glass valve

Valves and vacuum pumps are individually tested, sealed and leak-free

| Item No. | Joint |
|---|---|
| A631414 | 14/23 |
| A631919 | 19/26 |
| A632424 | 24/29 |
| A632929 | 29/32 |




## U-shaped adapter

Both ends are outer joints

| Item No. | Joint |
|---|---|
| A791414 | 14/23 |
| A791919 | 19/26 |
| A792424 | 24/29 |




## Liquid pouring adapter

Outer joint, overflow spout

| Item No. | Joint |
|---|---|
| A890014 | 14/23 |
| A890019 | 19/26 |
| A890024 | 24/29 |
| A890029 | 29/32 |



## Bent adapter with stopcock (glass stopcock)

Also called: 90 degree suction adapter with glass stopcock, used to control the flow of gas or liquid into the reaction system; nozzle O.D. 10mm.

| Item No. | Joint |
|---|---|
| A650014 | 14/23 |
| A650019 | 19/26 |
| A650024 | 24/29 |
| A650029 | 29/32 |
| A650034 | 34/35 |
| A650040 | 40/38 |



## Bent adapter with stopcock (PTFE stopcock)

Also called: 90 degree suction adapter with PTFE stopcock, used to control the flow of gas or liquid into the reaction system; nozzle O.D. 10mm.

| Item No. | Joint |
|---|---|
| A660014 | 14/23 |
| A660019 | 19/26 |
| A660024 | 24/29 |
| A660029 | 29/32 |
| A660034 | 34/35 |
| A660040 | 40/38 |



## Straight adapter with stopcock (glass stopcock)

Also called: straight suction adapter with glass stopcock, used to control the flow of gas or liquid into the reaction system; nozzle O.D. 10mm.

| Item No. | Joint |
|---|---|
| A670014 | 14/23 |
| A670019 | 19/26 |
| A670024 | 24/29 |
| A670029 | 29/32 |
| A670034 | 34/35 |
| A670040 | 40/38 |



## Straight adapter with stopcock (PTFE stopcock)

Also called: straight suction adapter with PTFE stopcock, used to control the flow of gas or liquid into the reaction system; nozzle O.D. 10mm.

| Item No. | Joint |
|---|---|
| A680014 | 14/23 |
| A680019 | 19/26 |
| A680024 | 24/29 |
| A680029 | 29/32 |
| A680034 | 34/35 |
| A680040 | 40/38 |



## T-shaped 3-way adapter

For controlling the direction of gas or liquid flow; 3-way glass valve, nozzle O.D. 10mm.

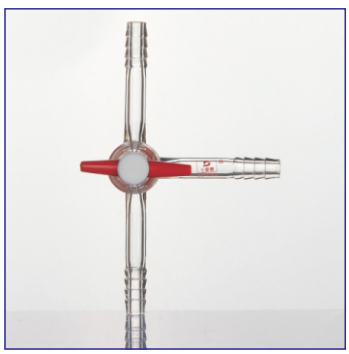
| Item No. | Joint |
|---|---|
| A690014 | 14/23 |
| A690019 | 19/26 |
| A690024 | 24/29 |
| A690029 | 29/32 |
| A690034 | 34/35 |
| A690040 | 40/38 |



## T-shaped 3-way adapter

For controlling the direction of gas or liquid flow; 3-way PTFE valve, nozzle O.D. 10mm.

| Item No. | Joint |
|---|---|
| A710014 | 14/23 |
| A710019 | 19/26 |
| A710024 | 24/29 |
| A710029 | 29/32 |
| A710034 | 34/35 |
| A710040 | 40/38 |



## T-shaped 3-way adapter

For controlling the direction of gas or liquid flow; 3-way PTFE valve, nozzle O.D. 10mm, without joint

| Item No. | Joint |
|---|---|
| A710009 | None |



## Liquid or gas transfer adapter (PTFE stopcock)

Nozzle O.D. 10mm

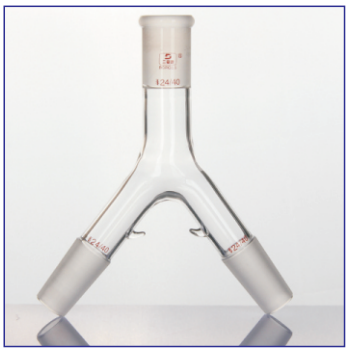
| Item No. | Joint |
|---|---|
| A720014 | 14/23 |
| A720019 | 19/26 |
| A720024 | 24/29 |
| A720029 | 29/32 |



## Y-shaped adapter

For anaerobic water operations

| Item No. | Joint |
|---|---|
| A740014 | 14/23 |
| A740019 | 19/26 |
| A740024 | 24/29 |



## Inverted Y-shaped adapter

For anaerobic water operations

| Item No. | Joint |
|---|---|
| A750014 | 14/23 |
| A750019 | 19/26 |
| A750024 | 24/29 |



## Kjeldahl adapter

For the ammonia-nitrogen distillation apparatus; the distance between the two joints is about 200mm

| Item No. | Joint | Tube dia. (mm) |
|---|---|---|
| A762424 | 24/29 | 22mm |



## Oil-bubbler gas inlet adapter

Gas inlet adapter with micro bubbler. The left and right nozzles are 10mm, connecting to the gas inlet and outlet tubes; the middle joint connects to the reaction system.

| Item No. | Joint |
|---|---|
| A770019 | 19/26 |
| A770024 | 24/29 |
| A770029 | 29/32 |



## Vacuum distillation adapter

Joint spacing 100mm, mainly for rough distillation, especially where one component has the lowest boiling point. Nozzle O.D. 10mm.

| Item No. | Joint |
|---|---|
| A781414 | 14/23 |



## Gas or liquid inlet adapter

Nozzle O.D. 10mm, for gas or liquid inlet (outlet)

| Item No. | Joint |
|---|---|
| A642475 | 24/29 |
| A644250 | 24/29 |



## Long-neck inlet adapter

Serrated nozzle, O.D. 10mm

| Item No. | Joint |
|---|---|
| A810100 | 14/23 |
| A811100 | 19/26 |
| A814200 | 24/29 |



## Solvent transfer adapter

0-4mm high-vacuum valve

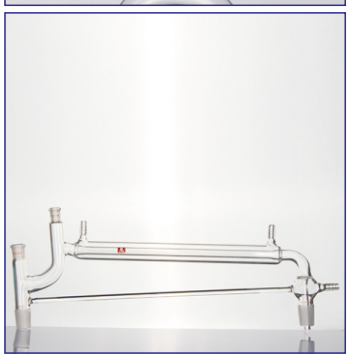
| Item No. | Joint | Total height*Width (mm) |
|---|---|---|
| F19000X | 14/23 | 150*75 |
| F19011X | 19/26 | 160*75 |
| F19044X | 24/29 | 180*75 |
| F19099X | 29/32 | 185*75 |



## U-shaped drying tube with side arm and stopper

Nozzle O.D. 10mm

| Item No. | Joint | Tube dia.*Height below joint (mm) |
|---|---|---|
| D271815 | 14/23 | 18*150 |



## Integrated vacuum distiller

For use with a thermometer inserted 25mm deep

| Item No. | Thermometer joint | Other joints |
|---|---|---|
| D241014 | 10/19 | 14/23 |
| D241019 | 10/19 | 19/26 |
| D240044 | 10/19 | 24/29 |




## Screw-cap thermometer adapter

Also called adjustable thermometer adapter; for thermometers of 5.0-7.5mm O.D. The hollow nylon cap holds a solid rubber gasket (flexible, the thermometer passes through) for better sealing.

| Item No. | Joint |
|---|---|
| A440014 | 14/23 |
| A440019 | 19/26 |
| A440024 | 24/29 |
| A440029 | 29/32 |
| A440034 | 34/35 |
| A440040 | 40/38 |
| A44024M | 24/40 |




## Stirrer adapter (87C adapter)

O.D. 12mm, I.D. 8mm

| Item No. | Joint |
|---|---|
| A870014 | 14/23 |
| A870019 | 19/26 |
| A870024 | 24/29 |
| A870029 | 29/32 |



## Thermometer adapter

O.D. 12mm, I.D. 8mm

| Item No. | Joint |
|---|---|
| A881440 | 14/23 |
| A881940 | 19/26 |
| A882440 | 24/29 |
| A880100 | 14/23 |
| A881100 | 19/26 |
| A884100 | 24/29 |



## U-shaped drying tube

Also called: bent drying tube. Cotton and desiccant are placed in the protruding tube on the left for gas drying.

| Item No. | Joint |
|---|---|
| A480014 | 14/23 |
| A480019 | 19/26 |
| A480024 | 24/29 |
| A480029 | 29/32 |



## Straight drying tube

With top and bottom joints

| Item No. | Joint |
|---|---|
| A480014 | 14/23 |
| A480019 | 19/26 |
| A480024 | 24/29 |
| A480029 | 29/32 |



## Straight drying tube

With bottom joint

| Item No. | Joint |
|---|---|
| A510014 | 14/23 |
| A510019 | 19/26 |
| A510024 | 24/29 |
| A510029 | 29/32 |
| A510009 | No joint, serrated nozzle below |



## Angled drying tube

Connects directly to the reaction flask; 75 degrees, the bend prevents desiccant from entering the flask.

| Item No. | Joint |
|---|---|
| A520014 | 14/23 |
| A520019 | 19/26 |
| A520024 | 24/29 |
| A520029 | 29/32 |



## Ground-joint gas inlet tube

Also called gas tube, used to introduce gas into the reaction system.

| Item No. | Joint | Length below joint (mm) |
|---|---|---|
| A920230 | 14/23 | 230mm |
| A921230 | 19/26 | 230mm |
| A924230 | 24/29 | 230mm |



## Vacuum capillary

Below the joint is a capillary, for vacuum distillation apparatus.

| Item No. | Joint | Length below joint (mm) |
|---|---|---|
| A930230 | 14/23 | 230mm |
| A931230 | 19/26 | 230mm |
| A934230 | 24/29 | 230mm |



## Micro distiller

For distilling small quantities. The integrated design simplifies operation and improves distillation; works with a thermometer inserted 25mm and a 3-way distillation receiver, so the fraction drips straight into the receiving flask without touching the wall.

| Item No. | Thermometer joint | Other joints |
|---|---|---|
| D231014 | 10/19 | 14/23 |
| D231019 | 10/19 | 19/26 |
| D231024 | 10/19 | 24/29 |



## Oil bubbler

Filled with silicone oil or another inert liquid at the bottom to observe gas flow. Nozzle O.D. 10mm.

| Item No. | O.D. (mm) | Total W*H (mm) |
|---|---|---|
| D160185 | 25 | 80*185 |
| D160500 | 25 | 80*500 |



## Anti-suck-back bubbler, old style

Also called: anti-suck-back bubbler. Filled with silicone oil or another inert liquid at the bottom to indicate gas flow. Prevents liquid from being drawn back into the apparatus under negative pressure.

| Item No. | O.D. (mm) | Total W*H (mm) |
|---|---|---|
| D170001 | 36 | 95*220 |



## Anti-suck-back bubbler, new style

Also called: anti-suck-back bubbler. Filled with silicone oil or another inert liquid at the bottom to indicate gas flow. Prevents liquid from being drawn back into the apparatus under negative pressure.

| Item No. | O.D. (mm) | Total W*H (mm) |
|---|---|---|
| D17000M | 36 | 95*220 |



## U-shaped bubbler

Serrated nozzle shape, 10mm O.D.

| Item No. | O.D. (mm) | Total W*H (mm) |
|---|---|---|
| D180001 | 28 | 140*185 |



## Integrated cold trap

Inner types: straight cold trap, spherical cold trap

| Item No. | Shape | Other joints |
|---|---|---|
| D192030 | Straight | 20*300 |
| D193020 | Straight | 30*200 |
| D195025 | Straight | 50*250 |
| D193040 | Spherical | 30*400 |



## Spherical cold trap with joint

Central gas tube O.D. 12mm, small serrated nozzle, O.D. 10mm

| Item No. | Size | Ground joint | Total W*H (mm) |
|---|---|---|---|
| D209100 | 100ml | 29/32 | 85*225 |
| D203250 | 250ml | 34/35 | 95*285 |
| D203500 | 500ml | 34/35 | 102*325 |
| D20401L | 1000ml | 40/38 | 130*340 |



## Cold trap with joint

Split design lets the gas tube be separated from the main body for easy cleaning. The gas tube ends in a serrated nozzle, 10mm O.D., matching the nozzles of the double manifold for easy connection.

| Item No. | Joint | O.D.*Length below joint (mm) |
|---|---|---|
| D214200 | 24/29 | 30*200 |
| D213225 | 34/35 | 40*225 |
| D212250 | 40/38 | 50*250 |
| D212300 | 40/38 | 60*300 |



## Chromatography flow control valve

Used with chromatography columns to control pressure during flash column chromatography. The lower side arm is the gas inlet (pressurization) port (e.g. nitrogen), the upper side arm the gas outlet; a 0-4mm high-vacuum valve controls the gas flow to regulate pressure. Spherical-joint versions must be secured with a steel ball-joint clip (CC3525); easier to use than plain joints, pressure resistant and quicker than rubber bands. This product uses a fully PTFE-encapsulated high-vacuum valve for resistance to chemical solvents.

| Item No. | Joint |
|---|---|
| F460035 | 35/20 |
| F46024M | 24/40 |
| F460019 | 19/26 |
| F460024 | 24/29 |



## 90 degree high-vacuum stopcock

Mainly for chemical applications requiring high vacuum

| Item No. | Note |
|---|---|
| F160004 | 0-4mm high-vacuum valve |
| F160010 | 0-10mm high-vacuum valve |



## Solvent reservoir flask

Fully PTFE-encapsulated stopcock plug, chemically resistant

| Item No. | Size | Joint | High-vacuum valve |
|---|---|---|---|
| F144100 | 100ml | 24/29 | 0-10mm |
| F144250 | 250ml | 24/29 | 0-10mm |
| F144500 | 500ml | 24/29 | 0-10mm |
| F14241L | 1000ml | 24/29 | 0-10mm |
| F14242L | 2000ml | 24/29 | 0-10mm |



## Solvent storage bottle

Fully PTFE-encapsulated stopcock plug, chemically resistant

| Item No. | Size | High-vacuum valve |
|---|---|---|
| F150050 | 50ml | 0-10mm |
| F150100 | 100ml | 0-10mm |
| F150250 | 250ml | 0-10mm |
| F150500 | 500ml | 0-10mm |
| F15001L | 1000ml | 0-10mm |
| F15002L | 2000ml | 0-10mm |



## Reaction tube

Solvent reaction tube with high-vacuum stopcock for a tight solvent seal. All joints below are 24/29

| Item No. | Size | Tube dia.*Eff. length | High-vacuum valve |
|---|---|---|---|
| F172425 | 25ml | 25*115 | 0-4mm |
| F172450 | 50ml | 28*120 | 0-4mm |
| F174100 | 100ml | 40*165 | 0-10mm |
| F174250 | 250ml | 60*185 | 0-10mm |
| F174500 | 500ml | 80*156 | 0-10mm |



## Pressure flask + gauge

Gauge: + or - pressure

Thick-wall cylindrical pressure bottle with internal thread, supplied with a 15mm O.D. PTFE screw cap, each unit pressure tested at the factory. The cap has an O-ring seal; the bottle can be used for pressurized reactions.

| Item No. | Size | Dia.*Wall thickness*Eff. height |
|---|---|---|
| F450200 | 200ml | 70*5*80 |
| F450250 | 250ml | 70*5*100 |
| F450300 | 300ml | 80*5*80 |
| F450500 | 500ml | 90*5*100 |
| F450800 | 800ml | 100*5*130 |
| F45001L | 1000ml | 110*5*130 |
| F45002L | 2000ml | 120*5*210 |



## Coil cold trap

Also called cold finger or condenser; collects gases by condensation on a cooled surface, preventing vapour or liquid from passing from the system into the measuring instrument or vice versa.

| Item No. | Dia. mm | Overall height mm |
|---|---|---|
| D194115 | 40 | 115 |
| D194300 | 50 | 300 |
| D194301 | 85 | 300 |



## Powder/solid addition funnel

For adding powder or solids in experiments; rotary feed for easy control of the amount added.

| Item No. | Size | Joint |
|---|---|---|
| D484100 | 100mL | 24/29 |
| D484250 | 250mL | 24/29 |
| D484500 | 500mL | 24/29 |
| D494100 | 100mL | 24/29 |
| D494250 | 250mL | 24/29 |
| D494500 | 500mL | 24/29 |



## Gas saturation funnel

Gas-washing (liquid-seal) funnel, with an Erlenmeyer flask below. When pressure in the flask rises because gas enters, the gas passes through the sealed glass tube into the funnel and is absorbed by the liquid. When the pressure falls, the gas-containing solution in the funnel flows back through the sealed tube into the flask, where the gas continues to be absorbed and reacts. Feature: ensures the gas is fully absorbed.

| Item No. | Size |
|---|---|
| C660060 | 60mL |
| C660100 | 100mL |
| C660150 | 150mL |
| C660250 | 250mL |



## Eggplant-shaped reaction flask

Glass stopcocks hold a higher vacuum than PTFE ones; high-vacuum valves higher still.





| Item No. | Size | Ground joint | Stopcock |
|---|---|---|---|
| F121410 | 10ml | 14/23 | Glass |
| F121425 | 25ml | 14/23 | Glass |
| F121450 | 50ml | 14/23 | Glass |
| F121950 | 50ml | 19/26 | Glass |
| F122450 | 50ml | 24/29 | Glass |
| F120100 | 100ml | 14/23 | Glass |
| F121100 | 100ml | 19/26 | Glass |
| F124100 | 100ml | 24/29 | Glass |
| F120200 | 200ml | 14/23 | Glass |
| F121200 | 200ml | 19/26 | Glass |
| F124200 | 200ml | 24/29 | Glass |
| F124500 | 500ml | 24/29 | Glass |
| F12241L | 1000ml | 24/29 | Glass |
| F111410 | 10ml | 14/23 | PTFE |
| F111425 | 25ml | 14/23 | PTFE |
| F111450 | 50ml | 14/23 | PTFE |
| F111950 | 50ml | 19/26 | PTFE |
| F112450 | 50ml | 24/29 | PTFE |
| F110100 | 100ml | 14/23 | PTFE |
| F111100 | 100ml | 19/26 | PTFE |
| F114100 | 100ml | 24/29 | PTFE |
| F110200 | 200ml | 14/23 | PTFE |
| F111200 | 200ml | 19/26 | PTFE |
| F114200 | 200ml | 24/29 | PTFE |
| F114500 | 500ml | 24/29 | PTFE |
| F11241L | 1000ml | 24/29 | PTFE |
| F131410 | 10ml | 14/23 | High vacuum 0-4mm |
| F131425 | 25ml | 14/23 | High vacuum 0-4mm |
| F131450 | 50ml | 14/23 | High vacuum 0-4mm |
| F131950 | 50ml | 19/26 | High vacuum 0-4mm |
| F132450 | 50ml | 24/29 | High vacuum 0-4mm |
| F130100 | 100ml | 14/23 | High vacuum 0-10mm |
| F131100 | 100ml | 19/26 | High vacuum 0-10mm |
| F134100 | 100ml | 24/29 | High vacuum 0-10mm |
| F130200 | 200ml | 14/23 | High vacuum 0-10mm |
| F131200 | 200ml | 19/26 | High vacuum 0-10mm |
| F134200 | 200ml | 24/29 | High vacuum 0-10mm |
| F134500 | 500ml | 24/29 | High vacuum 0-10mm |
| F13241L | 1000ml | 24/29 | High vacuum 0-10mm |



## Solid-phase peptide synthesis vessel

G3 frit plate in the middle, nylon screw cap and silicone gasket on top. 3mm PTFE stopcock at the bottom, stopcock side tube 10mm O.D.

| Item No. | Note | Screw thread joint | Other joints |
|---|---|---|---|
| F470425 | 25ml | GL25 | 24/40 |
| F470550 | 50ml | GL25 | 24/40 |
| F474100 | 100ml | GL25 | 24/40 |
| F474250 | 250ml | GL32 | 24/40 |
| F474500 | 500ml | Gl32 | 24/40 |



## Solvent reservoir bottle (cylindrical)

Solvent reservoir bottle with high-vacuum stopcock for a tight solvent seal. Features of the high-vacuum stopcock: fully PTFE-encapsulated, chemically resistant. Before ordering: if you intend to use a magnetic stir bar inside, choose the size that matches your stir bar, otherwise it will not fit. 0-4mm high vacuum: vent bore 4mm I.D., accepts stir bars under 4mm only. 0-8mm high vacuum: vent bore 8mm I.D., accepts stir bars under 8mm only.

| Item No. | Size | Dia. (mm) | Effective height (mm) | HV valve |
|---|---|---|---|---|
| F480104 | 10ml | 20 | 65 | 0-4 |
| F480204 | 20ml | 20 | 100 | 0-4 |
| F480254 | 25ml | 25 | 100 | 0-4 |
| F480504 | 50ml | 32 | 110 | 0-4 |
| F481004 | 100ml | 40 | 140 | 0-4 |
| F482504 | 250ml | 60 | 135 | 0-4 |
| F483504 | 350ml | 70 | 140 | 0-4 |



## Concentrating flask

Photolithographic graduations, acid and alkali resistant.

| Item No. | Size | Joint | Graduation ml | Accuracy ml |
|---|---|---|---|---|
| D450425 | 25ml | 24/29 | 1 | 0.1 |
| D450450 | 50ml | 24/29 | 1 | 0.1 |
| D454100 | 100ml | 24/29 | 1 | 0.1 |
| D454150 | 150ml | 24/29 | 1 | 0.1 |
| D454250 | 250ml | 24/29 | 1 | 0.1 |



## Micro sublimator

Split set, supplied with one 24 joint clip.

| Item No. | Size | Joint |
|---|---|---|
| D41004M | 25ml | 24/40 |



## 105 degree reflux condenser

Coil length customizable

| Item No. | Joint | Coil length |
|---|---|---|
| A140519 | 19/26 | 200 |
| A140524 | 24/40 | 240 |
| A140514 | 14/23 | 100 |



## Flanged ground-joint flask

Other capacities can be customized

| Item No. | Capacity (ml) |
|---|---|
| D43F025 | 25 |
| D43F050 | 50 |
| D43F100 | 100 |
| D43F250 | 250 |
| D43F500 | 500 |



## Micro Dewar condenser 90 degrees

Other sizes can be customized

| Item No. | Inner vessel I.D.*Inner tube depth |
|---|---|
| D429044 | 14*14 inner 35, outer 50, effective height 145, jacket 10 |



## Micro Dewar condenser 105 degrees

Other sizes can be customized

| Item No. | Inner vessel I.D.*Inner tube depth |
|---|---|
| D440544 | 14*14 inner 35, outer 50, effective height 145, jacket 10 |



## Jacketed distillation head

With vacuum jacket

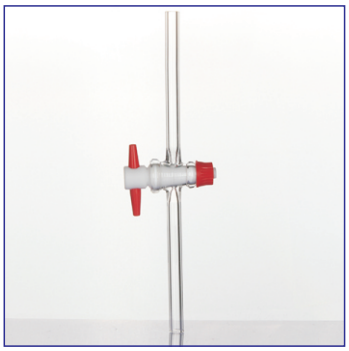
| Item No. | Joint | Joint | Joint |
|---|---|---|---|
| D401024 | 10/19 | 24/40 | 24/40 |



## Frit filter tube with glass valve

Other sizes can be customized

| Item No. | Diameter | Cylinder height (excl. mouth) |
|---|---|---|
| F4730G3 | 30 | 200 |
| F4745G3 | 45 | 160 |



## 2-way stopcock

Also called straight-way stopcock, 10mm diameter

| Item No. | Stopcock | Hole dia. (mm) |
|---|---|---|
| F20000B | Glass | 3 |
| F20000F | PTFE | 3 |



## T-shaped gas tube

Serrated nozzle shape, 10mm O.D.

| Item No. | Tube dia. (mm) |
|---|---|
| D25000T | 9 |



## Y-shaped gas tube

Serrated nozzle shape, 10mm O.D.

| Item No. | Tube dia. (mm) |
|---|---|
| D25000Y | 9 |



## L-shaped gas tube

Other sizes can be customized

| Item No. | Tube dia. (mm) |
|---|---|
| D25000L | 10 |




## Ground-joint Erlenmeyer flask

Thickened high-borosilicate; high clarity, heat and corrosion resistant, chemically inert.

| Item No. | Size (ml) | Joint |
|---|---|---|
| D281950 | 50 | 19/26 |
| D282450 | 50 | 24/29 |
| D281100 | 100 | 19/26 |
| D284100 | 100 | 24/29 |
| D281150 | 150 | 19/26 |
| D284150 | 150 | 24/29 |
| D281250 | 250 | 19/26 |
| D284250 | 250 | 24/29 |
| D289250 | 250 | 29/32 |
| D284500 | 500 | 24/29 |
| D289500 | 500 | 29/32 |
| D28241L | 1000 | 24/29 |
| D28242L | 2000 | 24/29 |
| D28243L | 3000 | 24/29 |
| D28245L | 5000 | 24/29 |



## Standard stopper with handle

Interchangeable with ground-joint Erlenmeyer flasks, seals tight.

| Item No. | Joint | Color |
|---|---|---|
| C530010 | 10 | Clear |
| C530012 | 12 | Clear |
| C530014 | 14 | Clear |
| C530019 | 19 | Clear |
| C530024 | 24 | Clear |
| C530029 | 29 | Clear |
| C531010 | 10 | Amber |
| C531012 | 12 | Amber |
| C531014 | 14 | Amber |
| C531019 | 19 | Amber |
| C531024 | 24 | Amber |




## Iodine flask

Standard joint, stoppers interchangeable

| Item No. | Capacity (ml) | Joint |
|---|---|---|
| D314100 | 100 | 24/29 |
| D314250 | 250 | 24/29 |
| D314500 | 500 | 24/29 |
| D31241L | 1000 | 24/29 |



## Gas washing bottle (straight tube)

Thick-wall high-borosilicate tubing, lathe-welded, large base, sealed ground joint, uniform wall, durable, good heat transfer, excellent chemical inertness.

| Item No. | Size | Joint | Style | Base |
|---|---|---|---|---|
| D139250 | 250ml | 29/32 | Straight tube | Round bottom |
| D133500 | 500ml | 34/35 | Straight tube | Round |



## Gas washing bottle (Muencke, round bottom)

Thick-wall high-borosilicate tubing, lathe-welded, large base, sealed ground joint, uniform wall, durable, good heat transfer, excellent chemical inertness.

| Item No. | Size | Joint | Style | Base |
|---|---|---|---|---|
| D119250 | 250ml | 29/32 | Multi-hole | Round bottom |
| D113500 | 500ml | 34/35 | Multi-hole | Round |
| D11401L | 1000ml | 40/38 | Multi-hole | Round |
| D11402L | 2000ml | 40/38 | Multi-hole | Round |



## Gas washing bottle (Muencke, hexagonal base)

Thick-wall high-borosilicate tubing, lathe-welded, large base, sealed ground joint, uniform wall, durable, good heat transfer, excellent chemical inertness.

| Item No. | Size | Joint | Style | Base |
|---|---|---|---|---|
| D129250 | 250ml | 29/32 | Multi-hole | Hex. |
| D123500 | 500ml | 34/35 | Multi-hole | Hex. |
| D12401L | 1000ml | 40/38 | Multi-hole | Hex. |
| D12402L | 2000ml | 40/38 | Multi-hole | Hex. |



## Gas washing bottle (steel bottle)

Thick-wall high-borosilicate tubing, lathe-welded, large base, sealed ground joint, uniform wall, durable, good heat transfer, excellent chemical inertness.

| Item No. | Size | Joint | Style | Base |
|---|---|---|---|---|
| D140125 | 125ml | None | Multi-hole | Round bottom |



## Gas washing bottle (Muencke, mouth with stopper, hexagonal base)

Thick-wall high-borosilicate tubing, lathe-welded, large base, sealed ground joint, uniform wall, durable, good heat transfer, excellent chemical inertness.

| Item No. | Size | Joint | Style | Base |
|---|---|---|---|---|
| D159500 | 500ml | 29/32 | Multi-hole | Hexagonal |



## Erlenmeyer flask with external thread joint

Erlenmeyer flasks are made of thickened high-borosilicate glass with higher clarity, heat and corrosion resistance and excellent chemical inertness. Cap withstands 140 C sterilization

| Item No. | Size (ml) | Screw thread joint |
|---|---|---|
| D30J100 | 100 | Gl25 |
| D30N250 | 250 | Gl32 |
| D30N500 | 500 | Gl32 |
| D30N01L | 1000 | Gl32 |



## Shaking flask

Thickened high-borosilicate; high clarity, heat and corrosion resistant, chemically inert.

| Item No. | Size (ml) |
|---|---|
| D330100 | 100 |
| D330150 | 150 |
| D330250 | 250 |
| D330500 | 500 |
| D33001L | 1000 |
| D33002L | 2000 |
| D33003L | 3000 |



## Thin-layer spray bottle, triangular

Result: fine mist. A separate rubber bulb is required for pressurizing

| Item No. | Size (ml) |
|---|---|
| D191950 | 50 |
| D191100 | 100 |



## Solids pycnometer

Also called: Le Chatelier or 1862 pycnometer

| Item No. | Joint |
|---|---|
| T201025 | 10/19 |



## Arsenic determination apparatus (silver salt method)

Balanced per set

| Item No. | Joint |
|---|---|
| T210150 | 10/19 |



## Soxhlet fat extractor

Made of thick-wall high-borosilicate tubing. Ground joints seal tight, uniform wall, durable, good heat transfer, excellent chemical inertness. Place the extraction material in the thimble and put the thimble into the extractor (note: the lower opening must line up with the tube opening at the bottom of the extractor).

| Item No. | Name | Size | Joint |
|---|---|---|---|
| T11S250 | Coil set | 250ml | 40*24 |
| T12S250 | Coil condenser | 250ml | 40 |
| T11Q250 | Spherical set | 250ml | 40*24 |
| T12Q250 | Spherical condenser | 250ml | 40 |
| T120250 | Extraction tube | 250ml | 40*24 |
| S264250 | Flat-bottom flask | 250ml | 24 |
| T11S500 | Coil set | 500ml | 40*24 |
| T12S500 | Coil condenser | 500ml | 40 |
| T11Q500 | Spherical set | 500ml | 40*24 |
| T12Q500 | Spherical condenser | 500ml | 40 |
| T120500 | Extraction tube | 500ml | 40*24 |
| S264500 | Flat-bottom flask | 500ml | 24 |



## Ammonia-nitrogen distillation apparatus

Thick-wall high-borosilicate tubing, lathe-welded, large base, sealed ground joint, uniform wall, durable, good heat transfer, excellent chemical inertness.

| Item No. | Name | Size | Joint |
|---|---|---|---|
| S164500 | Kjeldahl flask | 500ml | 24 |
| A762424 | Kjeldahl bulb | 100ml | 24*24 |
| A112441 | NH3 cond. | 400mm | 24*24 |
| D284500 | Receiving bottle | 500ml | 24 |
| C111000 | Hot plate | 1000w | |
| C120000 | Retort stand | 15*20cm | |
| K160000 | Cross clamp | Large | |
| C130000 | Flask clamp | Large | |
| K510069 | Latex tubing | 6*9 | |



## 4-way flask

Rotary evaporator glassware

| Item No. | Name | Size | Joint |
|---|---|---|---|
| T260250 | 4-way flask set | 250ml | |
| T261250 | 4-way flask body | 250ml | 29*24*24*19 |
| T262550 | Stopcock feed valve | | 19/26 |



## Atmospheric stirred distillation apparatus

Made of thick-wall high-borosilicate tubing. Ground joints seal tight, wall is uniform, durable, good heat transfer, excellent chemical inertness.

| Item No. | Name | Size | Joint |
|---|---|---|---|
| S21242L | 3-neck straight flask | 2000ml | 24*3 |
| K300024 | PTFE stirrer adapter | | |
| K280400 | PTFE stirrer rod | 400mm | |
| F364250 | Dropping f., PTFE | 250ml | 24*24 |
| A440024 | Screw-cap adpt. | Gl14 | 24 |
| W120200 | Thermometer | 0-200 red liquid | |
| A350024 | Distillation head | | |
| A122430 | Spherical condenser | 300mm | 24*24 |
| A452424 | Vacuum adapter | | 24*24 |
| D284250 | Receiving bottle | 250ml | 24 |
| K120000 | Retort stand | | |
| K160000 | Cross clamp | | |
| K130000 | Flask clamp | | |
| K510069 | Latex tubing | 6*9/3m | |



## Atmospheric distillation apparatus

Made of thick-wall high-borosilicate tubing. Ground joints seal tight, wall is uniform, durable, good heat transfer, excellent chemical inertness.

| Item No. | Name | Size | Joint |
|---|---|---|---|
| S11241L | Single-neck flask | 1000ml | 24 |
| A350024 | Distillation head | | 24*3 |
| A440024 | Screw-cap adpt. | Gl14 | 24 |
| W120200 | Thermometer | 0-200 red liquid | |
| A122430 | Spherical condenser | 300mm | 24*24 |
| A452424 | Vacuum adapter | | 24*24 |
| D284250 | Receiving bottle | 250ml | 24 |
| C120000 | Retort stand | | |
| K160000 | Cross clamp | | |
| C130000 | Flask clamp | | |
| K510069 | Latex tubing | 6*9/3m | |



## Graduated cylinder with stopper

Cylinder with standard joint, stoppers interchangeable.

| Item No. | Name | Size | Joint |
|---|---|---|---|
| D222450 | Cylinder | 50ml | 24/29 |
| D224100 | Cylinder | 100ml | 24/29 |
| D224250 | Cylinder | 250ml | 24/29 |
| D224500 | Cylinder | 500ml | 24/29 |
| D22241L | Cylinder | 1000ml | 24/29 |



## Vacuum distillation apparatus

Made of thick-wall high-borosilicate tubing. Ground joints seal tight, wall is uniform, durable, good heat transfer, excellent chemical inertness.

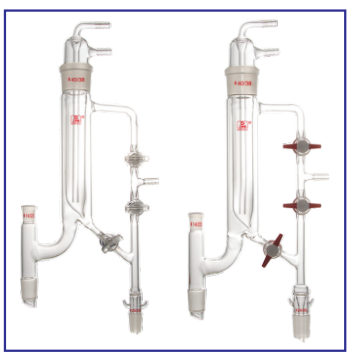
| Item No. | Name | Size | Joint |
|---|---|---|---|
| S144500 | RB flask | 500ml | 24 |
| A410024 | Claisen distillation head | | 24*4 |
| A934230 | Vacuum capillary | 230mm | 24 |
| A440024 | Screw-cap thermometer adapter | | 24 |
| W110200 | Thermometer | 0-200 mercury | |
| A112440 | Straight condenser | 400mm | 24*24 |
| A452424 | Vacuum adapter | | 24*24 |
| S114250 | RB flask | 250ml | 24 |



## COD reflux apparatus

Made of thick-wall high-borosilicate tubing. Ground joints seal tight, wall is uniform, durable, good heat transfer, excellent chemical inertness.

| Item No. | Name | Size | Joint |
|---|---|---|---|
| T250250 | Set | 250ml | 24 |
| A992430 | Spherical condenser | 300mm | 24*24 |
| D284250 | Receiving bottle | 250ml | 24 |
| T250500 | Set | 500ml | 24 |
| A992440 | Spherical condenser | 400mm | 24*24 |
| D284500 | Receiving bottle | 500ml | 24 |



## 5221 fractionating head with movable core

Made of thick-wall high-borosilicate tubing. Ground joints seal tight, wall is uniform, durable, good heat transfer, excellent chemical inertness.

| Item No. | Joint | Stopcock |
|---|---|---|
| T282419 | 24*19*14*40 | Glass |
| T282919 | 29*19*14*40 | Glass |
| T282424 | 24*24*14*40 | Glass |



## 5225 fractionating head with electromagnetic funnel

Made of thick-wall high-borosilicate tubing. Ground joints seal tight, wall is uniform, durable, good heat transfer, excellent chemical inertness.

| Item No. | Joint |
|---|---|
| T245225 | 14*14*40*24*24 |



## Ground-joint essential oil determination apparatus

Three parts: spherical condenser 400mm/24*24 + middle section 5ml/24*24 + single-neck flask 500ml/24

| Item No. | Name | Size | Joint |
|---|---|---|---|
| T272500 | Set | 500ml | 24 |
| A122440 | Spherical condenser | 400mm | 24*24 |
| T271500 | Oil mid-sect. | 5ml | 24*24 |
| S114500 | Single-neck flask | 500ml | 24 |



## Odour sampling bottle

In the laboratory, evacuate the sampling bottle with a vacuum pump system until the internal pressure is close to -1.0*10^5 Pa. When sampling, open the bottle valve so the sample gas fills the bottle to atmospheric pressure, then tighten the stopper. Transport back to the laboratory protected from light and measure within 24 hours.

| Item No. | Capacity | Joint |
|---|---|---|
| T42001L | 1000ml | 2 pcs/ctn |
| T42002L | 2000ml | 2 pcs/ctn |
| T42003L | 3000ml | 2 pcs/ctn |
| T42005L | 5000ml | 2 pcs/ctn |
| T420010L | 10000ml | 1 pc/ctn |



## 1801 distiller

Made of thick-wall high-borosilicate tubing. Ground joints seal tight, wall is uniform, durable, good heat transfer, excellent chemical inertness.

| Item No. | Size | Joint |
|---|---|---|
| T370500 | 500ml | 24*14 |
| T37001L | 1000ml | 24*14 |
| T37002L | 2000ml | 29*19 |
| T371500 | 500ml | 24*14 |
| T37101L | 1000ml | 24*14 |
| T37102L | 2000ml | 29*19 |
| A181420 | 200mm | 14 |
| A181425 | 250mm | 14 |
| A181930 | 300mm | 19 |



## Double-wall jacketed open reactor

Made of thick-wall high-borosilicate tubing. Ground joints seal tight, wall is uniform, durable, good heat transfer, excellent chemical inertness.

| Item No. | Name | Size |
|---|---|---|
| T301044 | Cap | 150mm/24*4 |
| T30J500 | Vessel body | 500ML/150MM |
| T30141L | Vessel body | 1000ML/150MM |
| K190150 | Quick-release clamp | 150MM |



## Open reactor

Made of thick material; the flange is fine-ground to ensure good sealing. Vacuum grease may be applied to the flange face. Flange O.D. 150mm, I.D. 115mm. The set has three parts: lid + vessel + clamp; the lid ships as standard with four angled 24 joints.

| Item No. | Name | Type | Size |
|---|---|---|---|
| T302500 | With clamp set | Cyl. flat | 500ml |
| T30201L | With clamp set | Cyl. flat | 1000ml |
| T301500 | With clamp set | Cyl. round | 500ml |
| T30101L | With clamp set | Cyl. round | 1000ml |
| T300500 | With clamp set | Spherical | 500ml |
| T30001L | With clamp set | Spherical | 1000ml |
| T30002L | With clamp set | Spherical | 2000ml |
| T30003L | With clamp set | Spherical | 3000ml |
| T30005L | With clamp set | Spherical | 5000ml |
| T30010L | With clamp set | Spherical | 10000ml |
| T30020L | With clamp set | Spherical | 20000ml |



| Item No. | Name | Type | Size |
|---|---|---|---|
| T300034 | Cap | 3-neck angled | 24*3 |
| T301034 | Cap | 3-neck straight | 24*3 |
| T300044 | Cap | 4-neck angled | 24*4 |
| T301044 | Cap | 4-neck straight | 24*4 |

| Item No. | Name | Type | Size |
|---|---|---|---|
| T304500 | Bottle | Cyl. flat | 500ml |
| T30401L | Bottle | Cyl. flat | 1000ml |
| T303500 | Bottle | Cyl. round | 500ml |
| T30301L | Bottle | Cyl. round | 1000ml |
| T305500 | Bottle | Spherical | 500ml |
| T30501L | Bottle | Spherical | 1000ml |
| T30502L | Bottle | Spherical | 2000ml |
| T30503L | Bottle | Spherical | 3000ml |
| T30505L | Bottle | Spherical | 5000ml |
| T30510L | Bottle | Spherical | 10000ml |
| T30520L | Bottle | Spherical | 20000ml |

| Item No. | Name | Type | Size |
|---|---|---|---|
| K190150 | Clamp | Quick-release | 150mm |

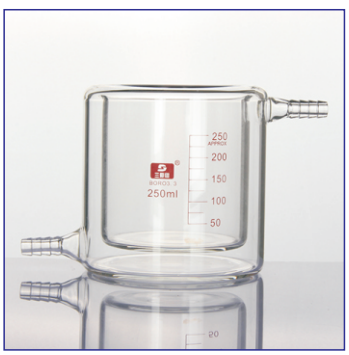




## Double-wall jacketed reactor

Made of 3.3 high-borosilicate glass, thickened, with higher clarity, heat and corrosion resistance and excellent chemical inertness. Double-wall jacket with a serrated nozzle at top and bottom for rubber tubing, allowing hot or cold media. The sizes below have round-bottom inner and outer vessels by default.

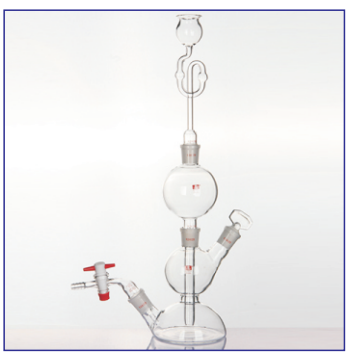
| Item No. | Size (ml) | Type | Size |
|---|---|---|---|
| T320050 | 50 | Single-neck | 24 |
| T320100 | 100 | Single-neck | 24 |
| T323100 | 100 | 3-neck angled | 24*3 |
| T323150 | 150 | 3-neck angled | 24*3 |
| T323250 | 250 | 3-neck angled | 24*3 |
| T323500 | 500 | 3-neck angled | 24*3 |
| T32301L | 1000 | 3-neck angled | 24*3 |
| T32302L | 2000 | 3-neck angled | 24*3 |
| T324250 | 250 | 4-neck angled | 24*4 |
| T324500 | 500 | 4-neck angled | 24*4 |
| T32401L | 1000 | 4-neck angled | 24*4 |
| T32402L | 2000 | 4-neck angled | 24*4 |




## Double-wall jacketed beaker

Made of 3.3 high-borosilicate glass, thickened, with higher clarity, heat and corrosion resistance and excellent chemical inertness. Double-layer jacket with a serrated nozzle at top and bottom for rubber tubing, allowing hot or cold media.

| Item No. | Size (ml) | Inner O.D.*H | Outer O.D.*H |
|---|---|---|---|
| T290050 | 50 | 45*55 | 65*65 |
| T290100 | 100 | 55*65 | 80*75 |
| T290150 | 150 | 60*75 | 80*85 |
| T290200 | 200 | 70*75 | 100*85 |
| T290250 | 250 | 80*75 | 100*85 |
| T290350 | 350 | 90*80 | 110*90 |
| T290500 | 500 | 100*90 | 130*100 |
| T29001L | 1000 | 110*140 | 150*150 |
| T29002L | 2000 | 150*150 | 180*165 |
| T29003L | 3000 | 160*200 | 200*220 |
| T29005L | 5000 | 180*250 | 230*270 |



## Kipp's apparatus

Made of 3.3 high-borosilicate glass, thickened, with higher clarity, heat and corrosion resistance and excellent chemical inertness.

| Item No. | Size (ml) | Joint |
|---|---|---|
| T410125 | 125 | 19*24*19*24 |
| T410250 | 250 | 19*24*19*24 |
| T410500 | 500 | 24*29*24*24 |



## Double-wall jacketed reactor with PTFE stopcock

Made of 3.3 high-borosilicate glass, thickened, with higher clarity, heat and corrosion resistance and excellent chemical inertness. Double-wall jacket with a serrated nozzle at top and bottom for rubber tubing, allowing hot or cold media. The sizes below have a 5# PTFE stopcock.

| Item No. | Size (ml) | Type | Size |
|---|---|---|---|
| F433250 | 250ml | 3-neck angled | 24*3 |
| F433500 | 500ml | 3-neck angled | 24*3 |
| F43301L | 1000ml | 3-neck angled | 24*3 |
| F43302L | 2000ml | 3-neck angled | 24*3 |



## Double-wall jacketed reactor with high-vacuum stopcock

Made of 3.3 high-borosilicate glass, thickened, with higher clarity, heat and corrosion resistance and excellent chemical inertness. Double-wall jacket with a serrated nozzle at top and bottom for rubber tubing, allowing hot or cold media. The sizes below have a 0-10mm high-vacuum stopcock

| Item No. | Size (ml) | Type | Size |
|---|---|---|---|
| F443250 | 250ml | 4-neck angled | 24*4 |
| F443500 | 500ml | 4-neck angled | 24*4 |
| F44301L | 1000ml | 4-neck angled | 24*4 |
| F44302L | 2000ml | 4-neck angled | 24*4 |



## Jacketed full-wrap 3-neck straight flask

Made of 3.3 high-borosilicate glass, thickened, with higher clarity, heat and corrosion resistance and excellent chemical inertness. Double-layer jacket with a serrated nozzle at top and bottom for rubber tubing, allowing hot or cold media.

| Item No. | Name | Main joint | Side joint |
|---|---|---|---|
| T444500 | 500ml | 24/29 | 24/29 |
| T449500 | 500ml | 29/32 | 24/29 |
| T44241L | 1000ml | 24/29 | 24/29 |
| T44291L | 1000ml | 29/32 | 24/29 |



## Jacketed half-wrap 3-neck straight flask

Made of 3.3 high-borosilicate glass, thickened, with higher clarity, heat and corrosion resistance and excellent chemical inertness. Double-layer jacket with a serrated nozzle at top and bottom for rubber tubing, allowing hot or cold media.

| Item No. | Name | Main joint | Side joint |
|---|---|---|---|
| T454500 | 500ml | 24/29 | 24/29 |
| T459500 | 1000ml | 29/32 | 24/29 |
| T45241L | 1000ml | 24/29 | 24/29 |
| T45291L | 1000ml | 29/32 | 24/29 |



## Jacketed half-wrap 3-neck straight flask with PTFE stopcock

Made of 3.3 high-borosilicate glass, thickened, with higher clarity, heat and corrosion resistance and excellent chemical inertness. Double-layer jacket with a serrated nozzle at top and bottom for rubber tubing, allowing hot or cold media.

| Item No. | Name | Main joint | Side joint |
|---|---|---|---|
| T464500 | 500ml | 24/29 | 24/29 |
| T469500 | 500ml | 29/32 | 24/29 |
| T46241L | 1000ml | 24/29 | 24/29 |
| T46291L | 1000ml | 29/32 | 24/29 |



## Pressure tube

Thick-wall cylindrical pressure tube with internal thread, supplied with a PTFE screw cap. Each unit is pressure tested at the factory and withstands 6 atm. The cap has an O-ring seal; the bottle can be used for pressurized reactions. Safety note: because of the special nature of this product and its condition after use (e.g. scratches), the safety of the product and any resulting injury cannot be guaranteed; a safety shield and operation in a fume hood are both required. Not for microwave reactions, since microwaves expand the PTFE and may crack the glass.

| Item No. | Size | Dia.*Thickness*Height |
|---|---|---|
| C58X010 | 10ml | 25*4*110 |
| C58X025 | 25ml | 30*4*130 |
| C58X050 | 50ml | 30*4*190 |
| C58X100 | 100ml | 40*4*190 |
| C58P010 | 10ml | 25*4*110 |
| C58P025 | 25ml | 30*4*130 |
| C58P050 | 50ml | 30*4*190 |
| C58P100 | 100ml | 40*4*190 |



## Pressure bottle

Thick-wall cylindrical pressure tube with internal thread, supplied with a PTFE screw cap. Each unit is pressure tested at the factory and withstands 6 atm. The cap has an O-ring seal; the bottle can be used for pressurized reactions. Safety note: because of the special nature of this product and its condition after use (e.g. scratches), the safety of the product and any resulting injury cannot be guaranteed; a safety shield and operation in a fume hood are both required. Not for microwave reactions, since microwaves expand the PTFE and may crack the glass.

| Item No. | Size | Dia.*Thickness*Height |
|---|---|---|
| C830150 | 150ml | 60*5*80 |
| C830200 | 200ml | 70*5*80 |
| C830250 | 250ml | 70*5*100 |
| C830350 | 350ml | 85*5*90 |
| C830500 | 500ml | 90*5*100 |
| C830800 | 800ml | 100*5*130 |
| C83001L | 1000ml | 110*5*130 |
| C83002L | 2000ml | 120*5*210 |



## Solvent distillation head

Connects to the condenser above and the 2-neck round flask below. The upper right is a 14/23 joint with PTFE stopcock for withdrawing liquid by syringe; the lower right is an outlet without joint for bulk withdrawal.

| Item No. | Name | Top joint | Bottom joint |
|---|---|---|---|
| T380500 | 500ml | 24/29 | 24/29 |
| T38001L | 1000ml | 24/29 | 24/29 |
| T38002L | 1000ml | 24/29 | 24/29 |



## Solvent distillation head

Connects to the condenser above and the 2-neck round flask below. The upper right is a 14/23 joint with PTFE stopcock for withdrawing liquid by syringe; the lower right is an outlet with joint for bulk withdrawal.

| Item No. | Name | Top joint | Bottom joint |
|---|---|---|---|
| T390500 | 500ml | 24/29 | 24/29 |
| T39001L | 1000ml | 24/29 | 24/29 |
| T39002L | 1000ml | 24/29 | 24/29 |



## Frit filtration apparatus

Also called solvent filter. Components: cup + filter core + Erlenmeyer flask + clamp + cup lid. For 500-2000ml the cup is 300ml; for 5000ml the cup is 500ml. EPE foam inner packing, colour-printed carton.

| Item No. | Size | Type | Joint |
|---|---|---|---|
| T310250 | 250ml | Serrated nozzle | 40/38 |
| T310500 | 500ml | Serrated nozzle | 40/38 |
| T31001L | 1000ml | Serrated nozzle | 40/38 |
| T31002L | 2000ml | Serrated nozzle | 40/38 |
| T31005L | 5000ml | Serrated nozzle | 50/42 |

Accessories below

| Item No. | Name | Type | Joint |
|---|---|---|---|
| T311300 | Filter cup | 300ml | |
| T311500 | Filter cup | 500ml | |
| T31201L | Filter core | 500-2000ml | 40/38 |
| T313500 | Erlenmeyer flask | 500ml | |
| T31301L | Erlenmeyer flask | 1000ml | |
| T31302L | Erlenmeyer flask | 2000ml | 40/38 |
| T31305L | Erlenmeyer flask | 5000ml | |



Set with detachable nozzle

| Item No. | Name | Type | Joint |
|---|---|---|---|
| T480500 | 500ml | Detachable nozzle | 40/38 |
| T48001L | 1000ml | Detachable nozzle | 40/38 |

## Drying tower

Sanaisi drying towers are made of 3.3 high-borosilicate glass tubing, thickened, bubble-free throughout, sealed. Left photo: new style; right photo: old style.



| Item No. | Name | Style | Side joint |
|---|---|---|---|
| T400250 | 250ml | Old style | 29/32 |
| T400500 | 500ml | Old style | 40/38 |
| T40001L | 1000ml | Old style | 50/42 |
| T40002L | 2000ml | Old style | 60/46 |
| T40X250 | 250ml | New style | 29/32 |
| T40X500 | 500ml | New style | 40/38 |
| T40X01L | 1000ml | New style | 50/42 |
| T40X02L | 2000ml | New style | 60/46 |



## Double-manifold gas distributor

Abbreviated as double-manifold gas distributor, solid stopcock plugs. This double-manifold vacuum distributor uses 3-way solid glass stopcocks whose plugs contain parallel double gas passages; turning the stopcock 180 degrees switches the gas flow direction. The two tubes are 22mm O.D.; the two nozzles (left of the front tube, right of the rear tube) are 10mm O.D.; each group of outlet nozzles is 10mm O.D. at 75mm spacing.

Three 10mm (O.D.) gas nozzles on the main tube: front-left; rear-left, rear-right.

| Item No. | Valve | No. of stopcocks | Total length (mm) |
|---|---|---|---|
| T333003 | Glass | 3 | 300 |
| T333004 | Glass | 4 | 375 |
| T333005 | Glass | 5 | 450 |
| T343003 | PTFE | 3 | 300 |
| T343004 | PTFE | 4 | 375 |
| T343005 | PTFE | 5 | 450 |



Two 10mm (O.D.) gas nozzles on the main tube: front-left, rear-right.

| Item No. | Valve | No. of stopcocks | Total length (mm) |
|---|---|---|---|
| T332003 | Glass | 3 | 300 |
| T332004 | Glass | 4 | 375 |
| T332005 | Glass | 5 | 450 |
| T342003 | PTFE | 3 | 300 |
| T342004 | PTFE | 4 | 375 |
| T342005 | PTFE | 5 | 450 |

Four 10mm (O.D.) gas nozzles on the main tube: front-left, front-right; rear-left, rear-right.

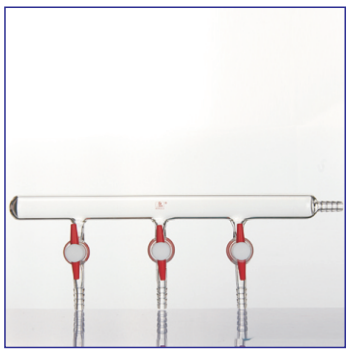
| Item No. | Valve | No. of stopcocks | Total length (mm) |
|---|---|---|---|
| T334003 | Glass | 3 | 300 |
| T334004 | Glass | 4 | 375 |
| T334005 | Glass | 5 | 450 |
| T344003 | PTFE | 3 | 300 |
| T344004 | PTFE | 4 | 375 |
| T344005 | PTFE | 5 | 450 |



## Double-manifold high-vacuum gas distributor

Abbreviated as double-manifold gas distributor, 0-10mm high-vacuum stopcock. The main tube carries two 10mm (O.D.) gas nozzles: front-left, rear-right.

| Item No. | Valve | No. of stopcocks | Total length (mm) |
|---|---|---|---|
| T364004 | 0-10 | 4 | 450 |



## Single-manifold gas distributor

Single-manifold vacuum distributor with PTFE stopcocks. Main tube 22mm O.D., with a 10mm O.D. gas nozzle on the right. Stopcock lower nozzle 10mm O.D., stopcock spacing 75mm.

PTFE stopcock; one gas nozzle on the main tube, on the right.

| Item No. | Valve | No. of stopcocks | Total length (mm) |
|---|---|---|---|
| T354003 | PTFE | 3 | 300 |
| T354004 | PTFE | 4 | 375 |
| T354005 | PTFE | 5 | 450 |

PTFE stopcock; one gas nozzle on the main tube, on the left.

| Item No. | Valve | No. of stopcocks | Total length (mm) |
|---|---|---|---|
| T354103 | PTFE | 3 | 300 |
| T354104 | PTFE | 4 | 375 |
| T354105 | PTFE | 5 | 450 |



## HPLC mobile phase bottle

High-borosilicate, leak-free seal. Color: clear.

| Item No. | Size | Dia.*Bottle H*Screw I.D. |
|---|---|---|
| C570100 | 100ml | 56*100*30 |
| C570250 | 250ml | 70*138*30 |
| C570500 | 500ml | 86*181*30 |
| C57001L | 1000ml | 100*230*30 |



## 3-neck mobile phase bottle

High-borosilicate, leak-free seal. Color: clear.

| Item No. | Size | Dia.*Bottle H*Screw I.D. |
|---|---|---|
| C55001L | 1000ml with port | 100*230*30 |
| C55101L | 1000ml without port | 100*230*30 |



## Feed bottle

GL14 threaded nozzle, GL45 threaded cap. High-borosilicate, leak-free seal. Color: clear.

| Item No. | Size | Dia.*Bottle H*Screw I.D. |
|---|---|---|
| C560100 | 100ml | 56*100*30 |
| C560250 | 250ml | 70*138*30 |
| C560500 | 500ml | 86*181*30 |
| C56001L | 1000ml | 100*230*30 |



## Suction flask with top nozzle

Thickened high-borosilicate, solid, clear and clean throughout; the mouth is lathe-finished into a standard ground joint, true round, matching Buchner funnel adapters for a tighter seal.

| Item No. | Valve | Frosted | Mouth size (mm) |
|---|---|---|---|
| C430125 | 125ml | None | 29 |
| C430250 | 250ml | None | 29 |
| C430500 | 500ml | None | 34 |
| C43001L | 1000ml | None | 40 |
| C43002L | 2500ml | None | 60 |
| C43005L | 5000ml | None | 60 |
| C43010L | 10000ml | None | 70 |
| C43015L | 15000ml | None | 70 |
| C43020L | 20000ml | None | 70 |



## Suction flask with top and bottom nozzles

Thickened high-borosilicate, solid, clear and clean throughout; the mouth is lathe-finished into a standard ground joint, true round, matching Buchner funnel adapters for a tighter seal.

| Item No. | Valve | Frosted | Mouth size (mm) |
|---|---|---|---|
| C432125 | 125ml | None | 29 |
| C432250 | 250ml | None | 29 |
| C432500 | 500ml | None | 34 |
| C43201L | 1000ml | None | 40 |
| C43202L | 2500ml | None | 60 |
| C43205L | 5000ml | None | 60 |
| C43210L | 10000ml | None | 70 |
| C43215L | 15000ml | None | 70 |
| C43220L | 20000ml | None | 70 |



## Ground-joint suction flask with top nozzle

Thickened high-borosilicate, solid, clear and clean throughout; the mouth is lathe-finished into a standard joint and ground, so standard-joint glassware can be attached.

| Item No. | Valve | Frosted | Joint |
|---|---|---|---|
| D324125 | 125ml | Yes | 24/29 |
| D324250 | 250ml | Yes | 24/29 |
| D324500 | 500ml | Yes | 24/29 |
| D32241L | 1000ml | Yes | 24/29 |

Also available as a gourd-shaped Erlenmeyer flask without nozzle for vacuum filtration, to be used with frit filter funnels and Buchner funnels with glass plate. Price on request. Note: suction flasks withstand pressure up to 0.06 Pa



## Pear-shaped separatory funnel (glass stopcock)

3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. PE cap; 3000ml with a glass cap.

| Item No. | Size | Joint |
|---|---|---|
| F261925 | 25ml | 19/26 |
| F261960 | 60ml | 19/26 |
| F261125 | 125ml | 19/26 |
| F264250 | 250ml | 24/29 |
| F269500 | 500ml | 29/32 |
| F26291L | 1000ml | 29/32 |
| F26292L | 2000ml | 29/32 |
| F26343L | 3000ml | 34/35 |
| F26405L | 5000ml | 40/38 |
| F26410L | 10000ml | 40/38 |



## Pear-shaped separatory funnel (PTFE stopcock)

3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. PE cap; 3000ml with a glass cap.

| Item No. | Size | Joint |
|---|---|---|
| F271925 | 25ml | 19/26 |
| F271960 | 60ml | 19/26 |
| F271125 | 125ml | 19/26 |
| F274250 | 250ml | 24/29 |
| F279500 | 500ml | 29/32 |
| F27291L | 1000ml | 29/32 |
| F27292L | 2000ml | 29/32 |
| F27343L | 3000ml | 34/35 |
| F27405L | 5000ml | 40/38 |
| F27410L | 10000ml | 40/38 |



## Pear-shaped separatory funnel (threaded PTFE stopcock)

3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. Cap withstands 140 C sterilization.

| Item No. | Size | Threaded |
|---|---|---|
| F321960 | 60ml | Gl25 |
| F321125 | 125ml | GL32 |
| F324250 | 250ml | GL32 |
| F329500 | 500ml | GL32 |
| F32291L | 1000ml | GL32 |
| F32292L | 2000ml | GL45 |
| F32343L | 3000ml | GL45 |
| F32405L | 5000ml | GL45 |
| F32410L | 10000ml | Gl45 |



## Pear-shaped separatory funnel (amber)

3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. PE cap.

| Item No. | Size | Stopcock | Joint |
|---|---|---|---|
| F281960 | 60ml | Glass | 19/26 |
| F281125 | 125ml | Glass | 19/26 |
| F284250 | 250ml | Glass | 24/29 |
| F289500 | 500ml | Glass | 29/32 |
| F28291L | 1000ml | Glass | 29/32 |
| F291960 | 60ml | PTFE | 19/26 |
| F291125 | 125ml | PTFE | 19/26 |
| F294250 | 250ml | PTFE | 24/29 |
| F299500 | 500ml | PTFE | 29/32 |
| F29291L | 1000ml | PTFE | 29/32 |

## Pear-shaped separatory funnel (with graduations)

3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. PE cap. Glass stopcock.

| Item No. | Size | Stopcock | Joint |
|---|---|---|---|
| F301960 | 60ml | Glass | 19/26 |
| F301125 | 125ml | Glass | 19/26 |
| F304250 | 250ml | Glass | 24/29 |
| F309500 | 500ml | Glass | 29/32 |
| F30291L | 1000ml | Glass | 29/32 |



3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. PE cap. PTFE stopcock.

| Item No. | Size | Stopcock | Joint |
|---|---|---|---|
| F311960 | 60ml | PTFE | 19/26 |
| F311125 | 125ml | PTFE | 19/26 |
| F314250 | 250ml | PTFE | 24/29 |
| F319500 | 500ml | PTFE | 29/32 |
| F31291L | 1000ml | PTFE | 29/32 |



## Spherical separatory funnel

3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. Cap not included. PTFE stopcock.

| Item No. | Size | Stopcock | Joint | |
|---|---|---|---|---|
| F32241L | 1000ml | PTFE | 24/29 | |
| F32242L | 2000ml | PTFE | 24/29 | |
| F32403L | 3000ml | PTFE | 40/38 | |
| F32405L | 5000ml | PTFE | 40/38 | 313.000 |
| F32210L | 10000ml | PTFE | 40/38 | |
| F32220L | 20000ml | PTFE | 40/38 | |



## Spherical separatory funnel

3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. PE cap. PTFE stopcock.

| Item No. | Size | Stopcock | Joint |
|---|---|---|---|
| F344150 | 150ml | PTFE | 24/29 |
| F344250 | 250ml | PTFE | 24/29 |
| F344500 | 500ml | PTFE | 24/29 |
| F34241L | 1000ml | PTFE | 24/29 |



## Spherical dropping funnel

3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. PE cap. Glass stopcock.

| Item No. | Size | Stopcock | Joint |
|---|---|---|---|
| F422460 | 60ml | Glass | 24/29 |
| F424125 | 125ml | Glass | 24/29 |
| F424150 | 150ml | Glass | 24/29 |
| F424250 | 250ml | Glass | 24/29 |
| F424500 | 500ml | Glass | 24/29 |
| F42241L | 1000ml | Glass | 24/29 |



## 3-neck round-bottom flask with PTFE stopcock

Also called: spherical separatory funnel, mainly used in peptide synthesis. Other joints available on request.

| Item No. | Size | Main joint | Joint |
|---|---|---|---|
| F214500 | 500ml | 24/29 | 24/29 |
| F21241L | 1000ml | 24/29 | 24/29 |
| F21242L | 2000ml | 24/29 | 24/29 |
| F21243L | 3000ml | 24/29 | 24/29 |
| F2105LE | 5000ml | 40/38 | 24/29 |
| F2110LE | 10000ml | 40/38 | 24/29 |



## Buchner funnel with glass plate

1) Sanaisi Buchner funnel with glass plate. 2) Full size range, 60-2000ml normally in stock. 3) Thick-walled, made on automated CNC equipment; fine, evenly distributed holes, used with filter paper. Solves the contamination problem of frit funnels and the blind spots of ceramic funnels. 4) The glass plate is firmly welded: no cold cracking, no plate loss. The inner core has a flared mouth, strong and durable, not easy to break. 5) Diameter, height and joint can be customized. 6) We accept custom glassware of all specifications; enquiries and factory visits welcome.

| Item No. | Size | Plate diameter | Joint |
|---|---|---|---|
| D342460 | 60ml | 42 | 24/40 |
| D344100 | 100ml | 50 | 24/40 |
| D344150 | 150ml | 60 | 24/40 |
| D344250 | 250ml | 70 | 24/40 |
| D344350 | 350ml | 80 | 24/40 |
| D344500 | 500ml | 90 | 24/40 |
| D344600 | 600ml | 90 | 24/40 |
| D34241L | 1000ml | 110 | 24/40 |
| D34242L | 2000ml | 140 | 24/40 |



## Triangular filter funnel

Thick-walled, made on automated CNC equipment; fine, evenly distributed holes, used with filter paper.

| Item No. | Size | Dia. (mm) | Joint |
|---|---|---|---|
| D351975 | 75mm | 75 | 19/26 |
| D352475 | 75mm | 75 | 24/29 |
| D352975 | 75mm | 75 | 29/32 |
| D351100 | 100mm | 100 | 19/26 |
| D354100 | 100mm | 100 | 24/29 |
| D359100 | 100mm | 100 | 29/32 |

## Addition funnel

Triangular funnel, thick-walled



| Item No. | Size | Dia. (mm) | Joint |
|---|---|---|---|
| D361475 | 75mm | 75 | 14/23 |
| D361975 | 75mm | 75 | 19/26 |
| D362475 | 75mm | 75 | 24/29 |
| D360100 | 100mm | 100 | 14/23 |
| D361100 | 100mm | 100 | 19/26 |
| D364100 | 100mm | 100 | 24/29 |
| D369100 | 100mm | 100 | 29/32 |
| D363100 | 100mm | 100 | 34/35 |
| D362100 | 100mm | 100 | 40/38 |



## Constant-pressure dropping funnel

With glass stopcock, 3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. Custom sizes available. Cap not included.

| Item No. | Size | Tube dia.*Eff. length | Top*Bottom |
|---|---|---|---|
| F351950 | 50ml | 32*140 | 19*19 |
| F352450 | 50ml | 32*140 | 24*24 |
| F351100 | 100ml | 40*170 | 19*19 |
| F354100 | 100ml | 40*170 | 24*24 |
| F354250 | 250ml | 55*200 | 24*24 |
| F354500 | 500ml | 65*230 | 24*24 |
| F35241L | 1000ml | 90*250 | 24*24 |
| F35921L | 1000ml | 90*250 | 29*40 |
| F35242L | 2000ml | 110*300 | 24*24 |



## Constant-pressure dropping funnel

With PTFE stopcock, 3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. Custom sizes available. Cap not included.

| Item No. | Size | Tube dia.*Eff. length | Top*Bottom |
|---|---|---|---|
| F361950 | 50ml | 32*140 | 19*19 |
| F362450 | 50ml | 32*140 | 24*24 |
| F361100 | 100ml | 40*170 | 19*19 |
| F364100 | 100ml | 40*170 | 24*24 |
| F364250 | 250ml | 55*200 | 24*24 |
| F364500 | 500ml | 65*230 | 24*24 |
| F36241L | 1000ml | 90*250 | 24*24 |
| F36921L | 1000ml | 90*250 | 29*40 |
| F36242L | 2000ml | 110*300 | 24*24 |
| F36243L | 3000ml | 120*365 | 24*24 |



## Constant-pressure dropping funnel

With PTFE stopcock and graduations, 3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. Custom sizes available. Cap not included.

| Item No. | Size | Tube dia.*Eff. length | Top*Bottom |
|---|---|---|---|
| F372450 | 50ml | 32*140 | 24*24 |
| F374100 | 100ml | 40*170 | 24*24 |
| F374250 | 250ml | 55*200 | 24*24 |
| F374500 | 500ml | 65*230 | 24*24 |
| F37241L | 1000ml | 90*250 | 24*24 |
| F37921L | 1000ml | 90*250 | 29*40 |
| F37242L | 2000ml | 110*300 | 24*24 |
| F37243L | 3000ml | 120*365 | 24*24 |



## Constant-pressure dropping funnel

With double PTFE stopcocks and graduations, 3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. Custom sizes available. Cap not included.

| Item No. | Size | Tube dia.*Eff. length | Top*Bottom |
|---|---|---|---|
| F382450 | 50ml | 32*140 | 24*24 |
| F384100 | 100ml | 40*170 | 24*24 |
| F384250 | 250ml | 55*200 | 24*24 |
| F384500 | 500ml | 65*230 | 24*24 |
| F38241L | 1000ml | 90*250 | 24*24 |



## Constant-pressure dropping funnel

With high-vacuum stopcock and graduations; the high-vacuum stopcock prevents clogging during addition, has a fine adjustable tip, and the O-ring never contacts chemicals so needs no replacement. Cap not included.

| Item No. | Size | Tube dia.*Eff. length | Top*Bottom |
|---|---|---|---|
| F392450 | 50ml | 32*140 | 24*24 |
| F394100 | 100ml | 40*170 | 24*24 |
| F394250 | 250ml | 55*200 | 24*24 |
| F394500 | 500ml | 65*230 | 24*24 |



## Cylindrical separatory funnel

With glass stopcock, 3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. Custom sizes available. Cap not included.

| Item No. | Size | Tube dia.*Eff. length | Joint |
|---|---|---|---|
| F512450 | 50ml | 32*140 | 24/29 |
| F514100 | 100ml | 40*170 | 24/29 |
| F514250 | 250ml | 55*200 | 24/29 |
| F514500 | 500ml | 65*230 | 24/29 |
| F51241L | 1000ml | 90*250 | 24/29 |



## Cylindrical separatory funnel

With PTFE stopcock and graduations, 3.3 high-borosilicate, higher clarity, heat and corrosion resistance, excellent chemical inertness, good sealing. Custom sizes available. Cap not included.

| Item No. | Size | Tube dia.*Eff. length | Top*Bottom |
|---|---|---|---|
| F412450 | 50ml | 32*140 | 24*24 |
| F414100 | 100ml | 40*170 | 24*24 |
| F414250 | 250ml | 55*200 | 24*24 |
| F414500 | 500ml | 65*230 | 24*24 |
| F41241L | 1000ml | 90*250 | 24*24 |



## Frit funnel

Thick-walled with reinforced rim, sturdy and durable. Suitable for corrosive reagents that cannot be filtered with paper or membranes. Frit grades G1-G6 available; G3 normally in stock.

| Item No. | Size | Frit type |
|---|---|---|
| X170C35 | 35ml | G3 |
| X170C60 | 60ml | G3 |
| X17C100 | 100ml | G3 |
| X17C130 | 130ml | G3 |
| X17C250 | 250ml | G3 |
| X17C500 | 500ml | G3 |
| X170C1L | 1000ml | G3 |
| X170C2L | 2000ml | G3 |
| X170C3L | 3000ml | G3 |
| X170C5L | 5000ml | G3 |



## Frit filter funnel

1) Sanaisi frit filter funnels, common sizes 30-5000ml. 2) Thick-walled with reinforced rim, sturdy and durable. Suitable for corrosive reagents that cannot be filtered with paper or membranes. Frit grades G1-G6 available; G3 normally in stock. 3) For G0-G6, the smaller the number the larger the pore: G3 is the most common, about 15 microns, retaining fine precipitates; at atmospheric pressure water drains slowly or not at all, so pressure or vacuum filtration is recommended. G2 is slightly faster than G3 and works at atmospheric pressure. 4) Frit plates are made by grinding glass to powder and pressing it in moulds of a specific pore size to G0-G6. Filter paper may be used on top for normal filtration. Never scrape the frit with a hard object. 5) We accept custom glassware of all specifications; enquiries and factory visits welcome.

| Item No. | Size | Joint | Frit type | O.D.*I.D.*Eff. length |
|---|---|---|---|---|
| X180C15 | 15ml | 24/29 | G3 | 25*21*51 |
| X180C30 | 30ml | 24/29 | G3 | 38*34*52 |
| X180C60 | 60ml | 24/29 | G3 | 47*42*59 |
| X18C100 | 100ml | 24/29 | G3 | 60*55*58 |
| X18C125 | 125ml | 24/29 | G3 | 65*60*65 |
| X18C150 | 150ml | 24/29 | G3 | 70*64*65 |
| X18C250 | 250ml | 24/29 | G3 | 80*75*78 |
| X18C500 | 500ml | 24/29 | G3 | 100*94*92 |
| X180C1L | 1000ml | 24/29 | G3 | 120*113*123 |
| X180C2L | 2000ml | 24/29 | G3 | 150*140*150 |
| X180C3L | 3000ml | 24/29 | G3 | 180*170*180 |
| X180C5L | 5000ml | 24/29 | G3 | 200*190*200 |




## Frit crucible

Thick-walled with reinforced rim, sturdy and durable. Frit grades G1-G6 available; G3 normally in stock.

| Item No. | Size | Frit type | O.D.*I.D.*Eff. length |
|---|---|---|---|
| X190A30 | 30ml | G1 | 34*42*59 |
| X190B30 | 30ml | G2 | 34*42*59 |
| X190C30 | 30ml | G3 | 34*42*59 |
| X190D30 | 30ml | G4 | 34*42*59 |
| X190E30 | 30ml | G5 | 34*42*59 |



## Flash chromatography column with standard joint

Features: standard joint, no frit, with stopcock

Thick-wall design for safety under pressure; every column comes with a PTFE stopcock plug. 19/26 and 24/29 joints are the same price. Custom sizes available. Sizes below are O.D.*effective length, with the I.D. in brackets; no frit plate, with PTFE stopcock. Open-top or other versions can be custom made. Columns over 100mm diameter are made without the internal hook.

| Item No. | O.D.(I.D.)*Eff. length | Wall thickness | Joint |
|---|---|---|---|
| X111315 | 13(10)*150 | 1.5 | 24/29 |
| X112020 | 20(15)*200 | 2.5 | 24/29 |
| X112060 | 20(15)*600 | 2.5 | 24/29 |
| X112520 | 25(20)*200 | 2.5 | 24/29 |
| X112530 | 25(20)*300 | 2.5 | 24/29 |
| X112560 | 25(20)*600 | 2.5 | 24/29 |
| X113020 | 30(26)*200 | 2.0 | 24/29 |
| X113030 | 30(26)*300 | 2.0 | 24/29 |
| X113040 | 30(26)*400 | 2.0 | 24/29 |
| X113050 | 30(26)*500 | 2.0 | 24/29 |
| X113060 | 30(26)*600 | 2.0 | 24/29 |
| X11301M | 30(26)*1000 | 2.0 | 24/29 |
| X114040 | 40(34)*400 | 3.0 | 24/29 |
| X115050 | 40(34)*500 | 3.0 | 24/29 |
| X114060 | 40(34)*600 | 3.0 | 24/29 |
| X114545 | 45(39.8)*450 | 2.6 | 24/29 |
| X115040 | 50(44)*400 | 3.0 | 24/29 |
| X115050 | 50(44)*500 | 3.0 | 24/29 |
| X116060 | 60(54)*600 | 3.0 | 24/29 |
| X116080 | 60(54)*800 | 3.0 | 24/29 |
| X117050 | 70(64)*500 | 3.0 | 24/29 |
| X118080 | 80(74)*800 | 3.0 | 24/29 |
| X11801M | 80(74)*1000 | 3.0 | 24/29 |
| X119060 | 90(84)*600 | 3.0 | 24/29 |
| X111003 | 100(94)*300 | 3.0 | 24/29 |
| X11101M | 100(94)*1000 | 3.0 | 24/29 |
| X11121M | 120(110)*1000 | 5.0 | 40/38 |
| X11151M | 150(140)*1000 | 5.0 | 40/38 |
| X11152M | 150(140)*1200 | 5.0 | 40/38 |
| X11201M | 200(190)*1000 | 5.0 | 40/38 |
| X11231M | 230(220)*1000 | 5.0 | 40/38 |



## Chromatography column with frit plate

Standard joint, G3 frit, stopcock. Thick-wall design for safety under pressure; every column comes with a PTFE stopcock plug. 19/26 and 24/29 joints are the same price. Custom sizes available. Sizes below are O.D.*effective length, with the I.D. in brackets; with frit plate (G3 by default) and PTFE stopcock. Special requirements can be custom made. Frit grades available: G1/G2/G4/G5/G6. Columns over 100mm diameter are made without the internal hook.

| Item No. | O.D.(I.D.)*Eff. length | Wall thickness | Joint |
|---|---|---|---|
| X121315 | 13(10)*150 | 1.5 | 24/29 |
| X122020 | 20(15)*200 | 2.5 | 24/29 |
| X122060 | 20(15)*600 | 2.5 | 24/29 |
| X122520 | 25(20)*200 | 2.5 | 24/29 |
| X122530 | 25(20)*300 | 2.5 | 24/29 |
| X122560 | 25(20)*600 | 2.5 | 24/29 |
| X123020 | 30(26)*200 | 2.0 | 24/29 |
| X123030 | 30(26)*300 | 2.0 | 24/29 |
| X123040 | 30(26)*400 | 2.0 | 24/29 |
| X123050 | 30(26)*500 | 2.0 | 24/29 |
| X123060 | 30(26)*600 | 2.0 | 24/29 |
| X12301M | 30(26)*1000 | 2.0 | 24/29 |
| X124040 | 40(34)*400 | 3.0 | 24/29 |
| X124545 | 45(39.8)*450 | 2.6 | 24/29 |
| X124050 | 40(34)*500 | 3.0 | 24/29 |
| X124060 | 40(34)*600 | 3.0 | 24/29 |
| X125040 | 50(44)*400 | 3.0 | 24/29 |
| X125050 | 50(44)*500 | 3.0 | 24/29 |
| X126060 | 60(54)*600 | 3.0 | 24/29 |
| X126080 | 60(54)*800 | 3.0 | 24/29 |
| X127050 | 70(64)*500 | 3.0 | 24/29 |
| X128080 | 80(74)*800 | 3.0 | 24/29 |
| X129060 | 90(84)*600 | 3.0 | 24/29 |
| X121003 | 100(94)*300 | 3.0 | 24/29 |
| X12101M | 100(94)*1000 | 3.0 | 24/29 |
| X12121M | 120(110)*1000 | 5.0 | 40/38 |
| X12151M | 150(140)*1000 | 5.0 | 40/38 |
| X12152M | 150(140)*1200 | 5.0 | 40/38 |
| X12201M | 200(190)*1000 | 5.0 | 40/38 |
| X12231M | 230(220)*1000 | 5.0 | 40/38 |



## Chromatography column with frit plate and reservoir bulb

Standard joint, reservoir bulb, G3 frit, stopcock. Thick-wall design for safety under pressure; every column comes with a PTFE stopcock plug. 19/26 and 24/29 joints are the same price. Custom sizes available. Sizes below are O.D.*effective length, with the I.D. in brackets; with frit plate (G3 by default) and PTFE stopcock. Special requirements can be custom made. Frit grades available: G1/G2/G4/G5/G6. Columns over 100mm diameter are made without the internal hook.

| Item No. | O.D.(I.D.)*Eff. length | Bulb | Wall | Joint |
|---|---|---|---|---|
| X131315 | 13(10)*150 | 100ml | 1.5 | 24/29 |
| X132020 | 20(15)*200 | 100ml | 2.5 | 24/29 |
| X132060 | 20(15)*600 | 100ml | 2.5 | 24/29 |
| X132520 | 25(20)*200 | 100ml | 2.5 | 24/29 |
| X132530 | 25(20)*300 | 100ml | 2.5 | 24/29 |
| X132560 | 25(20)*600 | 100ml | 2.5 | 24/29 |
| X133020 | 30(26)*200 | 250ml | 2.0 | 24/29 |
| X133030 | 30(26)*300 | 250ml | 2.0 | 24/29 |
| X133040 | 30(26)*400 | 250ml | 2.0 | 24/29 |
| X133050 | 30(26)*500 | 250ml | 2.0 | 24/29 |
| X133060 | 30(26)*600 | 250ml | 2.0 | 24/29 |
| X13301M | 30(26)*1000 | 250ml | 2.0 | 24/29 |
| X134040 | 40(34)*400 | 250ml | 3.0 | 24/29 |
| X134545 | 45(39.8)*450 | 250ml | 2.6 | 24/29 |
| X135040 | 50(44)*400 | 500ml | 3.0 | 24/29 |
| X135050 | 50(44)*500 | 500ml | 3.0 | 24/29 |
| X136060 | 60(54)*600 | 1000ml | 3.0 | 24/29 |
| X136080 | 60(54)*800 | 1000ml | 3.0 | 24/29 |
| X137050 | 70(64)*500 | 1000ml | 3.0 | 24/29 |
| X138080 | 80(74)*800 | 1000ml | 3.0 | 24/29 |
| X139060 | 90(84)*600 | 1000ml | 3.0 | 24/29 |
| X131003 | 100(94)*300 | 1000ml | 3.0 | 24/29 |
| X13101M | 100(94)*1000 | 1000ml | 3.0 | 24/29 |



## Open-top vacuum chromatography column

The lower right nozzle is for vacuum; the bottom joint is 24/29.

| Item No. | O.D.(I.D.)*Eff. length | Frit | Joint |
|---|---|---|---|
| X14B420 | 40*200 | G2 | 24/29 |
| X14C420 | 40*200 | G3 | 24/29 |
| X14B430 | 40*300 | G2 | 24/29 |
| X14C430 | 40*300 | G3 | 24/29 |
| X14B620 | 60*200 | G2 | 24/29 |
| X14C620 | 60*200 | G3 | 24/29 |
| X14B630 | 60*300 | G2 | 24/29 |
| X14C630 | 60*300 | G3 | 24/29 |
| X14B640 | 60*400 | G2 | 24/29 |
| X14C640 | 60*400 | G3 | 24/29 |
| X14B920 | 90*200 | G2 | 24/29 |
| X14C920 | 90*200 | G3 | 24/29 |
| X14B930 | 90*300 | G2 | 24/29 |
| X14C930 | 90*300 | G3 | 24/29 |
| X14B940 | 90*400 | G2 | 24/29 |
| X14C940 | 90*400 | G3 | 24/29 |



## Vacuum chromatography column with top joint

The lower right nozzle is for vacuum; the bottom joint is 24/29.

| Item No. | O.D.(I.D.)*Eff. length | Frit | Joint |
|---|---|---|---|
| X15B420 | 40*200 | G2 | 24/29 |
| X15C420 | 40*200 | G3 | 24/29 |
| X15B430 | 40*300 | G2 | 24/29 |
| X15C430 | 40*300 | G3 | 24/29 |
| X15B620 | 60*200 | G2 | 24/29 |
| X15C620 | 60*200 | G3 | 24/29 |
| X15B630 | 60*300 | G2 | 24/29 |
| X15C630 | 60*300 | G3 | 24/29 |
| X15B640 | 60*400 | G2 | 24/29 |
| X15C640 | 60*400 | G3 | 24/29 |
| X15B920 | 90*200 | G2 | 24/29 |
| X15C920 | 90*200 | G3 | 24/29 |
| X15B930 | 90*300 | G2 | 24/29 |
| X15C930 | 90*300 | G3 | 24/29 |
| X15B940 | 90*400 | G2 | 24/29 |
| X15C940 | 90*400 | G3 | 24/29 |



## Open-top flash chromatography column

Open top, no frit, with stopcock. Thick-wall design for safety under pressure; every column comes with a PTFE stopcock plug. Custom sizes available.

| Item No. | O.D.(I.D.)*Eff. length | Wall thickness |
|---|---|---|
| X161315 | 13(10)*150 | 1.5 |
| X162020 | 20(15)*200 | 2.5 |
| X162060 | 20(15)*600 | 2.5 |
| X162520 | 25(20)*200 | 2.5 |
| X162530 | 25(20)*300 | 2.5 |
| X162560 | 25(20)*600 | 2.5 |
| X163020 | 30(26)*200 | 2.0 |
| X163030 | 30(26)*300 | 2.0 |
| X163040 | 30(26)*400 | 2.0 |
| X163050 | 30(26)*500 | 2.0 |
| X163060 | 30(26)*600 | 2.0 |
| X16301M | 30(26)*1000 | 2.0 |
| X164040 | 40(34)*400 | 3.0 |
| X164545 | 45(39.8)*450 | 2.6 |
| X165040 | 50(44)*400 | 3.0 |
| X165050 | 50(44)*500 | 3.0 |
| X166060 | 60(54)*600 | 3.0 |
| X166080 | 60(54)*800 | 3.0 |
| X167050 | 70(64)*500 | 3.0 |
| X168080 | 80(74)*800 | 3.0 |
| X169060 | 90(84)*600 | 3.0 |
| X161003 | 100(94)*300 | 3.0 |
| X16101M | 100(94)*1000 | 3.0 |
| X16121M | 120(110)*1000 | 5.0 |
| X16151M | 150(140)*1000 | 5.0 |
| X16201M | 200(190)*1000 | 5.0 |
| X16231M | 230(220)*1000 | 5.0 |




## Low-form beaker

Sanaisi offers laboratory-grade glass beakers, all made of 3.3 high-borosilicate glass, thick-walled, with higher clarity, heat and corrosion resistance and excellent chemical inertness.

| Item No. | Size | pcs/ctn | Body dia.*Height |
|---|---|---|---|
| C160005 | 5ml | 1000 | 20*32.5 |
| C160010 | 10ml | 1000 | 25*39.4 |
| C160025 | 25ml | 560 | 35*50.8 |
| C160050 | 50ml | 288 | 45*63.6 |
| C160100 | 100ml | 240 | 52.8*72 |
| C160150 | 150ml | 192 | 60*80 |
| C160200 | 200ml | 144 | 65.3*92 |
| C160250 | 250ml | 144 | 70*98.5 |
| C160300 | 300ml | 96 | 76*103.5 |
| C160400 | 400ml | 96 | 80*111.6 |
| C160500 | 500ml | 96 | 97*123.7 |
| C160600 | 600ml | 72 | 91.3*132 |
| C160800 | 800ml | 48 | 99*146 |
| C16001L | 1000ml | 36 | 104*158.5 |
| C16002L | 2000ml | 24 | 134*196 |
| C16003L | 3000ml | 12 | 150*222 |
| C16003L | 5000ml | 6 | 180*266.3 |
| C16010L | 10000ml | 4 | 227*336.1 |




## Beaker with handle

Sanaisi offers laboratory-grade glass beakers, all made of 3.3 high-borosilicate glass, thick-walled, with higher clarity, heat and corrosion resistance and excellent chemical inertness.

| Item No. | Size | pcs/ctn |
|---|---|---|
| C161250 | 250ml | 72 |
| C161500 | 500ml | 64 |
| C16101L | 1000ml | 24 |

## Glass measuring cylinder

3.3 high-borosilicate, heat and corrosion resistant, thickened, smooth rim, Class A, German-ink graduations, acid/alkali resistant. 5 and 10ml are photolithographic.



| Item No. | Size | pcs/ctn |
|---|---|---|
| C180005 | 5ml | 400 |
| C180010 | 10ml | 300 |
| C180025 | 25ml | 200 |
| C180050 | 50ml | 72 |
| C180100 | 100ml | 36 |
| C180250 | 250ml | 25 |
| C180500 | 500ml | 16 |
| C18001L | 1000ml | 9 |
| C18002L | 2000ml | 9 |



## Erlenmeyer flask

Straight mouth, all made of 3.3 high-borosilicate glass, thickened, with higher clarity, heat and corrosion resistance and excellent chemical inertness.

| Item No. | Size | pcs/ctn | Body dia.*Height |
|---|---|---|---|
| C170050 | 50ml | 288 | 53*75 |
| C170100 | 100ml | 192 | 64*104 |
| C170150 | 150ml | 144 | 74*119 |
| C170200 | 200ml | 144 | 79*133 |
| C170250 | 250ml | 96 | 85*145 |
| C170300 | 300ml | 72 | 87*154 |
| C170500 | 500ml | 48 | 105*180 |
| C17001L | 1000ml | 24 | 131*221 |
| C17002L | 2000ml | 12 | 170*285 |
| C17003L | 3000ml | 8 | 192*315 |
| C17005L | 5000ml | 4 | 230*385 |

## High-borosilicate volumetric flask

Each flask carries an individual serial number and a factory calibration certificate. 3.3 high-borosilicate glass, thickened, standard ground joint, German ink printing, acid and alkali resistant, Class A, clean and glossy body. PE cap, acid and alkali resistant.



| Item No. | Size | Dia.*Height | pcs/ctn | Joint |
|---|---|---|---|---|
| C190005 | 5ml clear | 24*79 | 288 | 10/19 |
| C190010 | 10ml clear | 29*96 | 288 | 10/19 |
| C190020 | 20ml clear | 35*107 | 144 | 10/19 |
| C190025 | 25ml clear | 38*110 | 144 | 10/19 |
| C190050 | 50ml clear | 49*140 | 144 | 12/21 |
| C190100 | 100ml clear | 59*177 | 144 | 14/23 |
| C190200 | 200ml clear | 75*212 | 48 | 14/23 |
| C190250 | 250ml clear | 84*217 | 48 | 14/23 |
| C190500 | 500ml clear | 104*263 | 32 | 19/26 |
| C19001L | 1000ml clear | 127*300 | 24 | 24/29 |

| Item No. | Size | Dia.*Height | pcs/ctn | Joint |
|---|---|---|---|---|
| C200005 | 5ml amber | 24*79 | 288 | 10/19 |
| C200010 | 10ml amber | 29*96 | 288 | 10/19 |
| C200020 | 20ml amber | 35*107 | 144 | 10/19 |
| C200025 | 25ml amber | 38*110 | 144 | 10/19 |
| C200050 | 50ml amber | 49*140 | 144 | 12/21 |
| C200100 | 100ml amber | 59*177 | 144 | 14/23 |
| C200200 | 200ml amber | 75*212 | 48 | 14/23 |
| C200250 | 250ml amber | 84*217 | 48 | 14/23 |
| C200500 | 500ml amber | 104*263 | 32 | 19/26 |
| C20001L | 1000ml amber | 127*300 | 24 | 24/29 |



## High-borosilicate volumetric flask

Each flask carries an individual serial number and a factory calibration certificate. 3.3 high-borosilicate glass, thickened, standard ground joint, German ink printing, acid and alkali resistant, Class A, clean and glossy body. PE cap, acid and alkali resistant.

| Item No. | Size | Dia.*Height | pcs/ctn | Joint |
|---|---|---|---|---|
| C900005 | 5ml clear | 24*79 | 288 | 10/19 |
| C900010 | 10ml clear | 29*96 | 288 | 10/19 |
| C900020 | 20ml clear | 35*107 | 144 | 10/19 |
| C900025 | 25ml clear | 38*110 | 144 | 10/19 |
| C900050 | 50ml clear | 49*140 | 144 | 12/21 |
| C900100 | 100ml clear | 59*177 | 144 | 14/23 |
| C900200 | 200ml clear | 75*212 | 48 | 14/23 |
| C900250 | 250ml clear | 84*217 | 48 | 14/23 |
| C900500 | 500ml clear | 104*263 | 32 | 19/26 |
| C90001L | 1000ml clear | 127*300 | 24 | 24/29 |

| Item No. | Size | Dia.*Height | pcs/ctn | Joint |
|---|---|---|---|---|
| C910005 | 5ml amber | 24*79 | 288 | 10/19 |
| C910010 | 10ml amber | 29*96 | 288 | 10/19 |
| C910020 | 20ml amber | 35*107 | 144 | 10/19 |
| C910025 | 25ml amber | 38*110 | 144 | 10/19 |
| C910050 | 50ml amber | 49*140 | 144 | 12/21 |
| C910100 | 100ml amber | 59*177 | 144 | 14/23 |
| C910200 | 200ml amber | 75*212 | 48 | 14/23 |
| C910250 | 250ml amber | 84*217 | 48 | 14/23 |
| C910500 | 500ml amber | 104*263 | 32 | 19/26 |
| C91001L | 1000ml amber | 127*300 | 24 | 24/29 |





## Hexagonal glass stopper

Made of 3.3 high-borosilicate glass, hollow in the middle, sealed at both ends. Fits standard joints, finely ground.

| Item No. | Joint | Color |
|---|---|---|
| C790010 | 10 | Clear |
| C790012 | 12 | Clear |
| C790014 | 14 | Clear |
| C790019 | 19 | Clear |
| C790024 | 24 | Clear |
| C800010 | 10 | Amber |
| C800012 | 12 | Amber |
| C800014 | 14 | Amber |
| C800019 | 19 | Amber |
| C800024 | 24 | Amber |



## Photolithographic burette + factory calibration certificate

Rubber-tip burette. Class A. Also called alkaline burette. Colors: white and amber; white for alkaline solutions, amber for alkaline solutions that need protection from light. A measuring instrument for neutralization titration.

| Item No. | Size | pcs/ctn | Graduation (ml) |
|---|---|---|---|
| C750010 | 10ml clear | 72 | 0.05 |
| C750025 | 25ml clear | 72 | 0.10 |
| C750050 | 50ml clear | 72 | 0.10 |
| C750100 | 100ml clear | 72 | 0.20 |
| C75010Z | 10ml amber | 72 | 0.05 |
| C75025Z | 25ml amber | 72 | 0.10 |
| C75050Z | 50ml amber | 72 | 0.10 |
| C75100Z | 100ml amber | 72 | 0.20 |



Acid burette with stopper. Class A. Colors: white and amber. A measuring instrument for neutralization titration. Glass plug.

| Item No. | Size | pcs/ctn | Graduation (ml) |
|---|---|---|---|
| C760010 | 10ml clear | 60 | 0.05 |
| C760025 | 25ml clear | 60 | 0.10 |
| C760050 | 50ml clear | 60 | 0.10 |
| C760100 | 100ml clear | 60 | 0.20 |
| C76010Z | 10ml amber | 60 | 0.05 |
| C76025Z | 25ml amber | 60 | 0.10 |
| C76050Z | 50ml amber | 60 | 0.10 |
| C76100Z | 100ml amber | 60 | 0.20 |



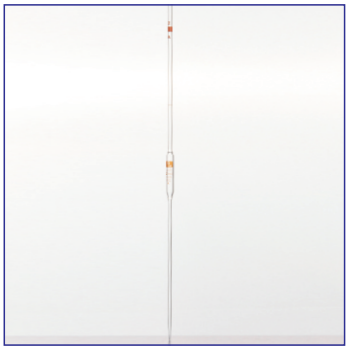
Burette with PTFE plug. Class A. Colors: white and amber. A measuring instrument for neutralization titration. The PTFE stopcock resists acid and alkaline solutions.

| Item No. | Size | pcs/ctn | Graduation (ml) |
|---|---|---|---|
| C770010 | 10ml clear | 60 | 0.05 |
| C770025 | 25ml clear | 60 | 0.10 |
| C770050 | 50ml clear | 60 | 0.10 |
| C770100 | 100ml clear | 60 | 0.20 |
| C77010Z | 10ml amber | 60 | 0.05 |
| C77025Z | 25ml amber | 60 | 0.10 |
| C77050Z | 50ml amber | 60 | 0.10 |
| C77100Z | 100ml amber | 60 | 0.20 |



Burette with high-vacuum plug. Class A. Colors: white and amber. Better gas tightness.

| Item No. | Size | pcs/ctn | Graduation (ml) |
|---|---|---|---|
| C780010 | 10ml clear | 60 | 0.05 |
| C780025 | 25ml clear | 60 | 0.10 |
| C780050 | 50ml clear | 60 | 0.10 |
| C780100 | 100ml clear | 60 | 0.20 |
| C78010Z | 10ml amber | 60 | 0.05 |
| C78025Z | 25ml amber | 60 | 0.10 |
| C78050Z | 50ml amber | 60 | 0.10 |
| C78100Z | 100ml amber | 60 | 0.20 |



## Pipette

Measuring pipette, also called ring-marked pipette, Class A.

| Item No. | Size | pcs/ctn | Graduation (ml) | Dia.*Length |
|---|---|---|---|---|
| C240001 | 1ml | 480 | 0.01 | 7*334 |
| C240002 | 2ml | 480 | 0.02 | 7*335 |
| C240005 | 5ml | 480 | 0.05 | 8*342 |
| C240010 | 10ml | 480 | 0.10 | 11*400 |
| C240025 | 25ml | 310 | 0.10 | 13*470 |
| C240050 | 50ml | 120 | 0.20 | 16*480 |



## Pipette

Volumetric pipette, also called single-mark transfer pipette, Class A.

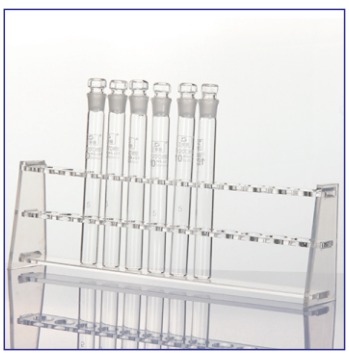
| Item No. | Size | pcs/ctn | Graduation (ml) | Dia.*Length |
|---|---|---|---|---|
| C241001 | 1ml | 320 | ±0.007 | 4*315 |
| C241002 | 2ml | 320 | ±0.01 | 5*327 |
| C241005 | 5ml | 280 | ±0.015 | 6*401 |
| C241010 | 10ml | 240 | ±0.02 | 6*450 |
| C241020 | 20ml | 180 | ±0.03 | 7*516 |
| C241025 | 25ml | 180 | ±0.03 | 7*518 |
| C241050 | 50ml | 180 | ±0.05 | 8*470 |



## Colorimetric tube

Colorimetric tube, 12 pcs/box, sold by the box. 3.3 high-borosilicate, heat resistant, finely ground joint.

| Item No. | Size | pcs/box | Dia.*Height (excl. stopper) |
|---|---|---|---|
| C250010 | 10ml | 12 | 15*143 |
| C250025 | 25ml | 12 | 20*164 |
| C250050 | 50ml | 12 | 25*205 |
| C250100 | 100ml | 12 | 30*239 |



## Colorimetric tube rack

Acrylic, smooth edges, fine workmanship.

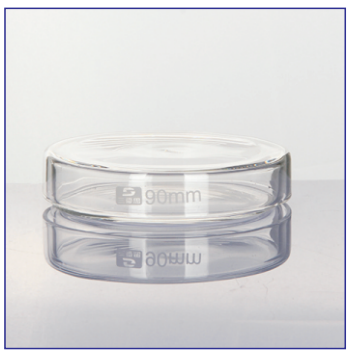
| Item No. | Size | Hole dia. | pcs/box |
|---|---|---|---|
| Y110610 | 10ml, 6 holes | 17mm | 2 |
| Y110625 | 25ml, 6 holes | 22mm | 1 |
| Y110650 | 50ml, 6 holes | 28mm | 1 |
| Y116100 | 100ml, 6 holes | 33mm | 2 |
| Y111210 | 10ml, 12 holes | 17mm | 2 |
| Y111225 | 25ml, 12 holes | 22mm | 1 |
| Y111250 | 50ml, 12 holes | 28mm | 1 |
| Y112100 | 100ml, 12 holes | 33mm | 2 |



## Dropping pipette

Our dropping pipettes are hand-made with a four-rib nozzle that resists slipping, in high-borosilicate glass with a latex bulb. The price below is for 10 pcs.

| Item No. | Size | Inner pack |
|---|---|---|
| C260125 | 125mm | 10 pcs/bag |
| C260140 | 140mm | 10 pcs/bag |
| C260200 | 200mm | 10 pcs/bag |



## Petri dish

Petri dishes are made of 3.3 high-borosilicate glass, thickened, with higher clarity and flatness, heat and corrosion resistance and excellent chemical inertness.

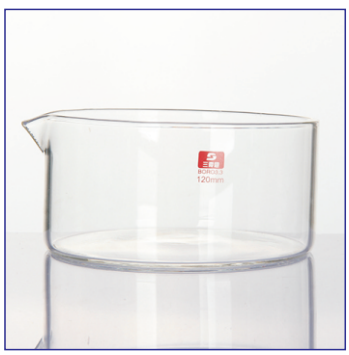
| Item No. | Size | Base*Height | Lid*Height | pcs/ctn | pcs/box |
|---|---|---|---|---|---|
| C270060 | 60MM | 58*17 | 64*16 | 320 | 20 |
| C270075 | 75MM | 73*17 | 83*17 | 200 | 10 |
| C270090 | 90MM | 90*20 | 98*19 | 120 | 10 |
| C270100 | 100MM | 98*23 | 105*22 | 120 | 10 |
| C270120 | 120MM | 123*24 | 131*21 | 60 | 10 |
| C270150 | 150MM | 150*30 | 160*27 | 48 | 6 |
| C270200 | 200MM | 200*31 | 210*28 | 32 | 10 |



## Flat-bottom evaporating dish

Flat-bottom evaporating dishes are made of 3.3 high-borosilicate glass, thickened, with higher clarity and flatness, heat and corrosion resistance and excellent chemical inertness.

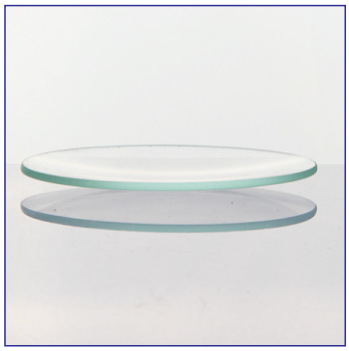
| Item No. | Size | Dia.*Height | pcs/ctn | pcs/box |
|---|---|---|---|---|
| C280060 | 60MM | 61*41 | 120 | 10 |
| C280090 | 90MM | 91*52 | 120 | 10 |
| C280125 | 125MM | 126*64 | 48 | 6 |
| C280150 | 150MM | 153*88 | 30 | 3 |



## Crystallizing dish

Crystallizing dishes are made of 3.3 high-borosilicate glass, thickened, with higher clarity and flatness, heat and corrosion resistance and excellent chemical inertness.

| Item No. | Size | Dia.*Height | pcs/ctn | pcs/box |
|---|---|---|---|---|
| C290060 | 60MM | 61*30 | 120 | 10 |
| C290090 | 90MM | 91*52 | 120 | 10 |
| C290125 | 125MM | 122*58 | 48 | 6 |
| C290150 | 150MM | 151*76 | 30 | 3 |
| C290180 | 180MM | 181*89 | 24 | 2 |



## Watch glass

Use: as a cover for glass beakers, evaporating dishes and crystallizing dishes.

| Item No. | Size | pcs/ctn | Inner pack |
|---|---|---|---|
| C300060 | 60mm | 600 | 10 |
| C300070 | 70mm | 600 | 10 |
| C300080 | 80mm | 600 | 10 |
| C300090 | 90mm | 600 | 10 |
| C300100 | 100mm | 540 | 10 |
| C300120 | 120mm | 320 | 10 |
| C300150 | 150mm | 100 | 10 |
| C300180 | 180mm | 100 | 10 |



## Glass mortar

The inside of the mortar is rough, suitable for grinding Chinese herbs and garlic.

| Item No. | Size | Height | pcs/ctn |
|---|---|---|---|
| C310060 | 60mm | 43 | 48 |
| C310075 | 75mm | 52 | 48 |
| C310090 | 90mm | 64 | 48 |
| C310120 | 120mm | 76 | 12 |
| C310150 | 150mm | 87 | 12 |
| C310180 | 180mm | 101 | 8 |

## Weighing bottle

Sold by the box only, evenly ground




| Item No. | Size | box/pc | pcs/ctn |
|---|---|---|---|
| C322525 | 25*25 tall form | 20 | 500 |
| C322540 | 25*40 tall form | 20 | 300 |
| C323050 | 30*50 tall form | 20 | 300 |
| C323060 | 30*60 tall form | 10 | 250 |
| C323570 | 35*70 tall form | 10 | 250 |
| C324070 | 40*70 tall form | 10 | 250 |
| C324025 | 40*25 flat form | 10 | 300 |
| C325030 | 50*30 flat form | 10 | 300 |
| C326030 | 60*30 flat form | 10 | 120 |
| C327035 | 70*35 flat form | 10 | 120 |
| C327040 | 70*40 flat form | 10 | 120 |



## High-borosilicate test tube, plain mouth

Test tubes are made of 3.3 high-borosilicate glass, thickened, with higher clarity and flatness, heat and corrosion resistance and excellent chemical inertness.

| Item No. | Dia.*Length | Wall thickness | pcs/ctn |
|---|---|---|---|
| G111075 | 10*75 | 0.80 | 1000 |
| G111275 | 12*75 | 1.00 | 2000 |
| G111010 | 10*100 | 1.20 | 2000 |
| G111310 | 13*100 | 0.65 | 1000 |
| G111510 | 15*100 | 1.50 | 1000 |
| G111610 | 16*100 | 1.20 | 1000 |
| G111515 | 15*150 | 1.50 | 1000 |
| G111815 | 18*150 | 1.00 | 600 |
| G111818 | 18*180 | 1.50 | 600 |
| G112020 | 20*200 | 1.90 | 500 |
| G112520 | 25*200 | 1.40 | 400 |
| G113020 | 30*200 | 1.20 | 200 |



## High-borosilicate test tube, rolled rim

Test tubes are made of 3.3 high-borosilicate glass, thickened, with higher clarity and flatness, heat and corrosion resistance and excellent chemical inertness.

| Item No. | Dia.*Length | Wall thickness | pcs/ctn |
|---|---|---|---|
| G121515 | 15*150 | 1.5 | 1000 |
| G121818 | 18*180 | 1.2 | 600 |
| G122020 | 20*200 | 1.2 | 500 |
| G122520 | 25*200 | 1.2 | 400 |



## Triangular funnel

All made of 3.3 high-borosilicate glass, thickened, with higher clarity and flatness, heat and corrosion resistance and excellent chemical inertness.

| Item No. | Size | pcs/ctn |
|---|---|---|
| C650050 | 50MM | 576 |
| C650060 | 60MM | 300 |
| C650075 | 75MM | 240 |
| C650090 | 90MM | 160 |
| C650100 | 100MM | 96 |
| C650120 | 120MM | 48 |
| C650150 | 150MM | 24 |



## Hollow stopper

Made of 3.3 high-borosilicate glass, thickened, with higher clarity and flatness, heat and corrosion resistance and excellent chemical inertness.

| Item No. | Dia.*Length |
|---|---|
| C53K014 | 14/23 |
| C53K019 | 19/26 |
| C53K024 | 24/29 |
| C53K029 | 29/32 |
| C53K034 | 34/35 |
| C53K040 | 40/38 |
| C53K050 | 50/42 |



## Reagent bottle with blue cap

Low-borosilicate, leak-free seal. Colors: clear, amber.

| Item No. | Size | Dia.*Bottle H*Screw | Screw std. |
|---|---|---|---|
| C390050 | 50ml clear | 46*93 | Gl25 |
| C390100 | 100ml clear | 56*100*30 | Gl45 |
| C390250 | 250ml clear | 70*138*30 | Gl45 |
| C390500 | 500ml clear | 86*181*30 | Gl45 |
| C39001L | 1000ml clear | 100*230*30 | Gl45 |
| C391100 | 100ml amber | 56*100*30 | Gl45 |
| C391250 | 250ml amber | 70*138*30 | Gl45 |
| C391500 | 500ml amber | 86*181*30 | Gl45 |
| C39101L | 1000ml amber | 100*230*30 | GL45 |



## Reagent bottle with blue cap

High-borosilicate, leak-free seal. Color: clear.

| Item No. | Size | Dia.*Bottle H*Screw | pcs/ctn |
|---|---|---|---|
| C401050 | 50ml, clear tubing | 45*90*18 | 144 |
| C400100 | 100ml, clear tubing | 56*100*30 | 96 |
| C401250 | 250ml, clear tubing | 70*138*30 | 70 |
| C401500 | 500ml, clear tubing | 86*181*30 | 48 |
| C40101L | 1000ml, clear tubing | 100*230*30 | 30 |
| C40102L | 2000ml, clear tubing | 136*260*30 | 12 |
| C40003L | 3000ml clear | 156*283*30 | 6 |
| C40005L | 5000ml clear | 185*320*30 | 6 |
| C40010L | 10000ml clear | 233*410*30 | 4 |
| C40020L | 20000ml clear | 295*510*30 | 1 |



## Desiccator (clear)

Clear. Thickened, with porcelain plate inside.

| Item No. | Size | Eff. length*Total height | pcs/ctn |
|---|---|---|---|
| C360150 | 150mm | 75*225 | 2 |
| C360180 | 180mm | 91*265 | 2 |
| C360210 | 210mm | 103*286 | 1 |
| C360240 | 240mm | 125*325 | 1 |
| C360300 | 300mm | 138*370 | 1 |



## Desiccator (amber)

Amber. Thickened, with porcelain plate inside.

| Item No. | Size | Eff. length*Total height | pcs/ctn |
|---|---|---|---|
| C361150 | 150mm | 75*225 | 2 |
| C361180 | 180mm | 91*265 | 2 |
| C361210 | 210mm | 103*286 | 1 |
| C361240 | 240mm | 125*325 | 1 |
| C361300 | 300mm | 138*370 | 1 |



## Vacuum desiccator (clear)

Clear. Thickened, with porcelain plate inside.

| Item No. | Size | Eff. length*Total height | pcs/ctn |
|---|---|---|---|
| C370150 | 150mm | 75*225 | 2 |
| C370180 | 180mm | 91*265 | 2 |
| C370210 | 210mm | 103*286 | 1 |
| C370240 | 240mm | 125*325 | 1 |
| C370300 | 300mm | 138*370 | 1 |



## Vacuum desiccator (amber)

Amber. Thickened, with porcelain plate inside.

| Item No. | Size | Eff. length*Total height | pcs/ctn |
|---|---|---|---|
| C371150 | 150mm | 75*225 | 2 |
| C371180 | 180mm | 91*265 | 2 |
| C371210 | 210mm | 103*286 | 1 |
| C371240 | 240mm | 125*325 | 1 |
| C371300 | 300mm | 138*370 | 1 |





## Wide-mouth reagent bottle

Wide-mouth reagent bottle, colors: clear, amber

| Item No. | Size | Bottle dia.*Bottle H | pcs/ctn |
|---|---|---|---|
| C380030 | 30ml clear | 25*35*74 | 160 |
| C380060 | 60ml clear | 30*44*90 | 144 |
| C380125 | 125ml clear | 35*55*110 | 80 |
| C380250 | 250ml clear | 40*65*130 | 60 |
| C380500 | 500ml clear | 50*85*165 | 48 |
| C38001L | 1000ml clear | 55*105*185 | 24 |
| C38002L | 2500ml clear | 80*140*290 | 8 |
| C38005L | 5000ml clear | 105*175*325 | 6 |
| C38010L | 10000ml clear | 105*220*425 | 2 |
| C381030 | 30ml amber | 25*35*74 | 160 |
| C381060 | 60ml amber | 30*44*90 | 144 |
| C381125 | 125ml amber | 35*55*110 | 80 |
| C381250 | 250ml amber | 40*65*130 | 60 |
| C381500 | 500ml amber | 50*85*165 | 48 |
| C38101L | 1000ml amber | 55*105*185 | 24 |
| C38102L | 2500ml amber | 80*140*290 | 8 |
| C38105L | 5000ml amber | 105*175*325 | 6 |
| C38110L | 10000ml amber | 105*220*425 | 2 |





## Narrow-mouth reagent bottle

Narrow-mouth reagent bottle, colors: clear, amber

| Item No. | Size | Eff. length*Total height | pcs/ctn |
|---|---|---|---|
| C382030 | 30ml clear | 25*35*74 | 160 |
| C382060 | 60ml clear | 30*44*90 | 144 |
| C382125 | 125ml clear | 35*55*110 | 80 |
| C382250 | 250ml clear | 40*65*130 | 60 |
| C382500 | 500ml clear | 50*85*165 | 48 |
| C38201L | 1000ml clear | 55*105*185 | 24 |
| C38202L | 2500ml clear | 80*140*290 | 8 |
| C38205L | 5000ml clear | 105*175*325 | 6 |
| C38210L | 10000ml clear | 105*220*425 | 2 |
| C383030 | 30ml amber | 25*35*74 | 160 |
| C383060 | 60ml amber | 30*44*90 | 144 |
| C383125 | 125ml amber | 35*55*110 | 80 |
| C383250 | 250ml amber | 40*65*130 | 60 |
| C383500 | 500ml amber | 50*85*165 | 48 |
| C38301L | 1000ml amber | 55*105*185 | 24 |
| C38302L | 2500ml amber | 80*140*290 | 8 |
| C38305L | 5000ml amber | 105*175*325 | 6 |
| C38310L | 10000ml amber | 105*220*425 | 2 |






## Sample bottle

Body in low-borosilicate, heat resistant. The PE liner is not heat resistant. 10/15/20/30/40ml can be fitted with a PTFE liner at an extra cost of 0.90-1.10 RMB per piece

| Item No. | Size | Bottle dia.*Bottle H | pcs/ctn |
|---|---|---|---|
| C420002 | 2ml, label | 11.6*32 | 5000 |
| C421002 | 2ml HS amber | 11.6*32 | 5000 |
| C420003 | 3ml clear | 16*33 | 3000 |
| C420004 | 4ml clear | 14.7*45 | 3000 |
| C420005 | 5ml clear | 18.4*40 | 3000 |
| C420010 | 10ml clear | 21.9*50 | 1000 |
| C420015 | 15ml clear | 21.9*70 | 800 |
| C420020 | 20ml clear | 27.5*57 | 800 |
| C420030 | 30ml clear | 27.5*80 | 1000 |
| C420040 | 40ml clear | 27.5*95 | 800 |
| C421003 | 3ml amber | 16*33 | 3000 |
| C421004 | 4ml amber | 14.7*45 | 3000 |
| C421005 | 5ml amber | 18.4*40 | 3000 |
| C421010 | 10ml amber | 21.9*50 | 1000 |
| C421015 | 15ml amber | 21.9*70 | 800 |
| C421020 | 20ml amber | 27.5*57 | 800 |
| C421030 | 30ml amber | 27.5*80 | 1000 |
| C421040 | 40ml amber | 27.5*95 | 800 |
| C422010 | 10ml crimp vial, clear | 22.5*46 | 1000 |
| C422020 | 20ml crimp vial, clear | 22.5*75 | 800 |
| C423020 | 20ml Al HS | 22.5*75 | 800 |
| C424020 | 20ml Al, amber | 22.5*75 | 800 |



## Dropping bottle

Colors: clear and amber

| Item No. | Size | box/pc | pcs/ctn |
|---|---|---|---|
| C410030 | 30ml clear | 10 | 120 |
| C410060 | 60ml clear | 10 | 100 |
| C410125 | 125ml clear | 8 | 96 |
| C411030 | 30ml amber | 10 | 120 |
| C411060 | 60ml amber | 10 | 100 |
| C411125 | 125ml amber | 8 | 96 |





## Dissolved oxygen bottle (wastewater bottle)

Colors: clear, amber

| Item No. | Size | pcs/ctn |
|---|---|---|
| C540125 | 125ml single cap, clear | 72 |
| C540250 | 250ml single cap, clear | 60 |
| C540500 | 500ml single cap, clear | 48 |
| C54001L | 1000ml single cap, clear | 32 |
| C541125 | 125ml single cap, amber | 72 |
| C541250 | 250ml single cap, amber | 60 |
| C541500 | 500ml single cap, amber | 48 |
| C54101L | 1000ml single cap, amber | 32 |
| C542125 | 125ml double cap, clear | 72 |
| C542250 | 250ml double cap, clear | 60 |
| C542500 | 500ml double cap, clear | 48 |
| C54201L | 1000ml double cap, clear | 32 |
| C543125 | 125ml double cap, amber | 72 |
| C543250 | 250ml double cap, amber | 60 |
| C543500 | 500ml double cap, amber | 48 |
| C54301L | 1000ml double cap, amber | 32 |





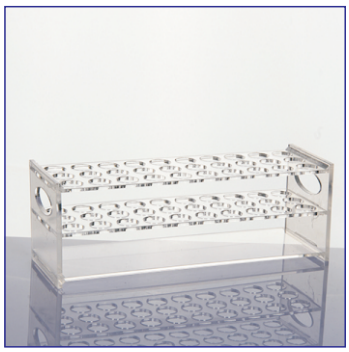
## Buchner funnel

Ceramic, heat resistant

| Item No. | Size | I.D.*Effective height | pcs/ctn |
|---|---|---|---|
| C440060 | 60mm | 52*32 | 100 |
| C440080 | 80mm | 70*45 | 50 |
| C440100 | 100mm | 90*50 | 30 |
| C440120 | 120mm | 113*57 | 30 |
| C440150 | 150mm | 137*65 | 12 |
| C440200 | 200mm | 185*79 | 4 |
| C440250 | 250mm | 228*93 | 2 |
| C440300 | 300mm | 280*124 | 1 |

1000ml top-nozzle suction flask + Buchner funnel adapter + 120mm Buchner funnel (150mm also available)

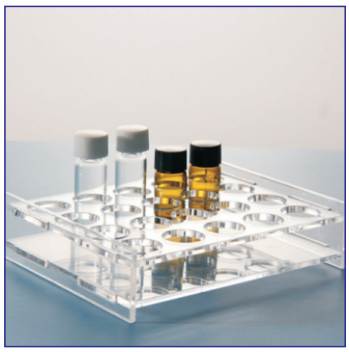
| Item No. | Size | box/pc |
|---|---|---|
| C43001L | Suction flask | 1000ML |
| C440091 | Buchner funnel adapter | 9*1 |
| C440120 | Buchner funnel | 120MM |



## Test tube rack

Acrylic, laser-cut. Hole count and diameter can be customized.

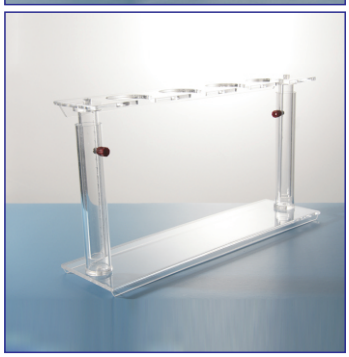
| Item No. | Size | Holes*Hole dia. | pcs/box |
|---|---|---|---|
| Y121515 | 15*150 | 30 holes*17 | 1 |
| Y121818 | 18*180 | 30 holes*19 | 1 |
| Y122020 | 20*200 | 30 holes*22 | 1 |
| Y122520 | 25*200 | 30 holes*27 | 1 |



## Sample vial rack

Acrylic, laser-cut. Hole count and diameter can be customized.

| Item No. | Size | Hole dia.*Hole count | pcs/box |
|---|---|---|---|
| Y142002 | 2ml | 16.5*20 | 1 |
| Y142003 | 3ml | 16.5*20 | 1 |
| Y142005 | 5ml | 18.5*20 | 1 |
| Y142010 | 10ml | 22.5*20 | 1 |
| Y142010 | 15ml | 22.5*20 | 1 |
| Y142020 | 20ml | 27.5*20 | 1 |
| Y142020 | 30ml | 27.5*20 | 1 |
| Y142020 | 40ml | 27.5*20 | 1 |
| Y142050 | 50ml | 35.5*20 | 1 |



## Pear-shaped separatory funnel rack

Acrylic, laser-cut. Hole count and diameter can be customized.

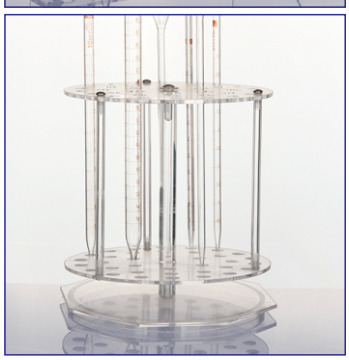
| Item No. | Size | Hole dia.*Hole count | pcs/box |
|---|---|---|---|
| Y130125 | 125ml | 46*4 | 2 |
| Y130250 | 250ml | 56*4 | 2 |
| Y130500 | 500ml | 71*4 | 2 |
| Y13001L | 1000ml | 95*4 | 1 |



## Pipette rack

Detachable for easy transport. Acrylic, laser-cut. Hole count and diameter can be customized.

| Item No. | Size |
|---|---|
| Y130001 | Trapezoid pipette rack |



## Pipette rack

Detachable for easy transport. Acrylic, laser-cut. Hole count and diameter can be customized.

| Item No. | Size |
|---|---|
| Y130002 | Round pipette rack |



## PTFE stopper with handle

Acrylic, laser-cut. Hole count and diameter can be customized.

| Item No. | Joint |
|---|---|
| C490012 | 12 |
| C490014 | 14 |
| C490019 | 19 |
| C490024 | 24 |
| C490029 | 29 |
| C490034 | 34 |
| C490040 | 40 |
| C490045 | 45 |



## Plastic cap for standard joint

PE, sealing, acid and alkali resistant

| Item No. | Joint |
|---|---|
| C500010 | 10 |
| C500012 | 12 |
| C500014 | 14 |
| C500019 | 19 |
| C500024 | 24 |
| C500029 | 29 |



## Threaded plastic cap

Glass-fibre reinforced, withstands 140 C sterilization, sealing, acid and alkali resistant.

| Item No. | Screw thread joint |
|---|---|
| C50GL25 | GL25 (with silicone liner) |
| C50GL32 | GL32 (with silicone liner) |
| C50GL45 | GL45 (no liner, with overflow ring) |



## Flanged rubber stopper

Premium white rubber, sealing, acid and alkali resistant

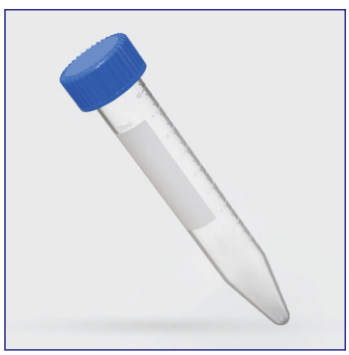
| Item No. | Joint | Packaging |
|---|---|---|
| C510014 | 14 | 50 pcs/bag |
| C510019 | 19 | 50 pcs/bag |
| C510024 | 24 | 50 pcs/bag |
| C510029 | 29 | 50 pcs/bag |



## Disposable pipette

Available in standard and sterile packaging. Sold by the full bag.

| Item No. | Size (ml) | pcs/pack |
|---|---|---|
| K501005 | 0.5 | 500 pcs/pack |
| K500001 | 1 | 100 pcs/pack |
| K500002 | 2 | 100 pcs/pack |
| K500003 | 3 | 100 pcs/pack |
| K500005 | 5 | 100 pcs/pack |
| K500010 | 10 | 100 pcs/pack |
| K502001 | 1 | 250 pcs/pack |
| K502002 | 2 | 250 pcs/pack |
| K502003 | 3 | 250 pcs/pack |
| K502004 | 3 | Long, 250/pack |
| K502005 | 5 | 100 pcs/pack |
| K502010 | 10 | 100 pcs/pack |



## Disposable centrifuge tube

Sold by the full bag.

| Item No. | Size (ml) | pcs/pack |
|---|---|---|
| K510005 | 0.5 | 1000 pcs/pack |
| K510015 | 1.5 | 500 pcs/pack |
| K510020 | 2 | 500 pcs/pack |
| K510050 | 5 | 300 pcs/pack |
| K510100 | 10ml RB, cap | 100 pcs/pack |
| K510101 | 10ml flat, screw | 100 pcs/pack |
| K510150 | 15 | 100 pcs/pack |
| K510500 | 50 | 50 pcs/pack |
| K511000 | 100 | 30 pcs/pack |



## Solid rubber stopper

White rubber, fine workmanship; custom sizes available for large quantities.

| Item No. | Size (ml) | Small end*Large end*Height (mm) |
|---|---|---|
| K430003 | 3# | 17*23*27 |
| K430004 | 4# | 19*25*29 |
| K430005 | 5# | 22*29*28 |
| K430006 | 6# | 25*33*28 |
| K430007 | 7# | 28*37*31 |
| K430008 | 8# | 32*41*32 |
| K430009 | 9# | 38*45*30 |
| K430010 | 10# | 42*50*33 |
| K430011 | 11# | 46*56*34 |
| K430012 | 12# | 51*62*38 |
| K430013 | 13# | 55*68*38 |
| K430014 | 14# | 60*73*41 |



## Fluorinated bottle

High-density polyethylene, non-toxic and odourless. Good heat and cold resistance, good chemical stability, resistant to chemical corrosion.

| Item No. | Size (ml) | Dia.*Height*Mouth I.D. |
|---|---|---|
| K460060 | 60 | 38*88*20, no tamper-evident cap |
| K460100 | 100 | 47*115*24, TE |
| K460250 | 250 | 60*125*33, TE |
| K460500 | 500 | 68*192*33, TE |
| K46001L | 1000 | 90.5*220*33, TE |

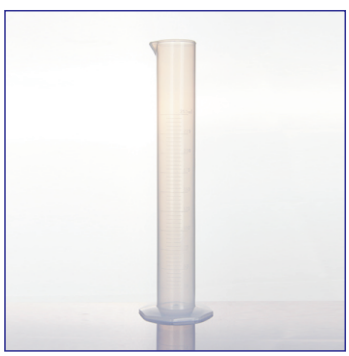
## Plastic measuring cup



Material: PP polypropylene, transparent and light. Working range 30-140 C; below 80 C resistant to acids, alkalis, salt solutions and many organic solvents; decomposes under high temperature and oxidation.

| Item No. | Size (ml) | Handle |
|---|---|---|
| K470050 | 50 | None |
| K470100 | 100 | None |
| K470250 | 250 | None |
| K470150 | 250 | None |
| K470500 | 500 | Yes |
| K47001L | 1000 | Yes |
| K47002L | 2000 | Yes |
| K47003L | 3000 | Yes |
| K47005L | 5000 | Yes |

## Plastic measuring cylinder



Material: PP polypropylene, transparent and light. Working range 30-140 C; below 80 C resistant to acids, alkalis, salt solutions and many organic solvents; decomposes under high temperature and oxidation.

| Item No. | Size (ml) |
|---|---|
| K480050 | 50 |
| K480100 | 100 |
| K480250 | 250 |
| K480500 | 500 |
| K48001L | 1000 |
| K48002L | 2000 |



## Plastic wash bottle

| Item No. | Name | Size (ml) |
|---|---|---|
| K520500 | Wash bottle with side tube | 500 |
| K521500 | Wash bottle, flat head | 500 |



## Joint clip

Brand-new plastic, good toughness.

| Item No. | Size |
|---|---|
| C520014 | 14 |
| C520019 | 19 |
| C520024 | 24 |
| C520029 | 29 |
| C520034 | 34 |
| C520040 | 40 |

## Heating mantle

Power supply: 220V 50Hz, max. operating temperature: 380 C





| Item No. | Size (ml) | Temperature control | Power (W) |
|---|---|---|---|
| PTHW100 | 100 | Standard temp. control | 130 |
| PTHW250 | 250 | Standard temp. control | 216 |
| PTHW500 | 500 | Standard temp. control | 220 |
| PTHW1L | 1000 | Standard temp. control | 530 |
| PTHW2L | 2000 | Standard temp. control | 650 |
| PTHW3L | 3000 | Standard temp. control | 730 |
| PTHW5L | 5000 | Std. temp. | 1100 |
| PTHW10L | 10000 | Std. temp. | 2100 |
| PTHW20L | 20000 | Std. temp. | 3000 |
| PTHW30L | 30000 | Std. temp. | 4300 |
| PTHW50L | 50000 | Std. temp. | 6000 |
| ZNHW100 | 100 | Digital temp. control | 130 |
| ZNHW250 | 250 | Digital temp. control | 216 |
| ZNHW500 | 500 | Digital temp. control | 220 |
| ZNHW1L | 1000 | Digital temp. control | 530 |
| ZNHW2L | 2000 | Digital temp. control | 650 |
| ZNHW3L | 3000 | Digital temp. control | 730 |
| ZNHW5L | 5000 | Digital temp. control | 1100 |
| ZNHW10L | 10000 | Digital temp. control | 2100 |
| ZNHW20L | 20000 | Digital temp. control | 3000 |
| ZNHW30L | 30000 | Digital temp. control | 4300 |
| ZNHW50L | 50000 | Digital temp. control | 6000 |

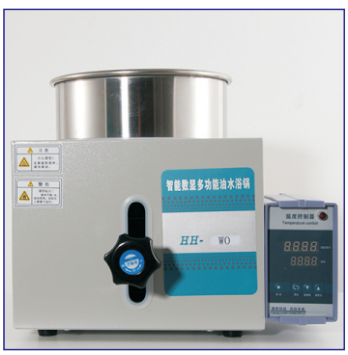


## Electronic balance

Accurate to 0.01 g and 0.001 g models come with a wind shield that can be assembled freely and removed.



| Item No. | Size (ml) | Accuracy (g) |
|---|---|---|
| K531200 | 200 | 0.1 |
| K531500 | 500 | 0.1 |
| K5311KG | 1000 | 0.1 |
| K5312KG | 2000 | 0.1 |
| K5313KG | 3000 | 0.1 |
| K5315KG | 5000 | 0.1 |
| K5316KG | 6000 | 0.1 |
| K53110K | 10000 | 0.1 |
| K53115K | 15000 | 0.1 |
| K53120K | 20000 | 0.1 |
| K532200 | 200 | 0.01 |
| K532600 | 600 | 0.01 |
| K5321KG | 1000 | 0.01 |
| K5322KG | 2000 | 0.01 |
| K5323KG | 3000 | 0.01 |
| K5325KG | 5000 | 0.01 |
| K533200 | 200 | 0.001 |
| K533300 | 300 | 0.001 |
| K533500 | 500 | 0.001 |



## Digital thermostatic water bath

Water or oil, one-piece moulded body, thermostatic control

| Item No. | Size (ml) | Lifting |
|---|---|---|
| HH-WO1L | 1000mL | No |
| HH-WO-2LS | 2000mL | Yes |
| HH-WO-3LS | 3000mL | Yes |
| HH-WO-5LS | 5000mL | Yes |
| HH-WO-10LS | 10000mL | Yes |
| HH-WO10L | 10000mL | No |

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